



LIGHT

environmental innovation



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Danese propone oggi le nuove collezioni Light e Space Design Environmental Innovation che interpretano in chiave contemporanea i valori del suo dna storico.

Dal 1957, anno della sua nascita, Danese prende come riferimento l'uomo e i suoi bisogni e si configura come luogo di sperimentazione da cui nascono risposte elementari ai bisogni di una società e di un contesto in evoluzione: figure che hanno fatto la storia del design italiano come Bruno Munari ed Enzo Mari sviluppano così prodotti innovativi, interpretazioni attuali e senza tempo degli oggetti di uso quotidiano.

I nuovi prodotti ne riprendono la cultura del progetto rispettandone i valori ancora oggi attuali: la semplificazione come ricerca dell'essenziale, l'intelligenza delle soluzioni offerte, l'attenzione a una qualità ambientale sensoriale e percettiva, la sostenibilità, la lunga durata semantica e materica.

Grazie alla condivisione di valori e allo scambio culturale con un team di designer internazionali Danese propone una nuova generazione di prodotti che consentono una diversa visione degli spazi, creano scenari aperti che superano qualsiasi standardizzazione e invitano a intervenire consapevolmente nella definizione del proprio ambiente.

L'ampliamento della collezione Danese permette di ricostruire una qualità ambientale a 360° attraverso un'offerta completa e trasversale di luce, complementi e sistemi d'arredo adatta in ogni tipo di spazio – dall'abitazione all'ufficio all'ambiente pubblico – per modificare e qualificare la fruizione e la vivibilità dei luoghi, con soluzioni flessibili e personali.

Danese da sempre adotta un codice linguistico elementare ma riconoscibile dove la sottrazione e la semplicità si traducono in un'espressività frutto di intelligenza progettuale e non di formalismi.

Prodotti dai contenuti profondi dimostrano come anche nel minimo ci può essere un alto valore aggiunto: la sottrazione e la semplicità producono innovazione qualitativa e non si traducono in assenza ma soddisfano pienamente il bisogno continuo di emozioni, di relazione con l'oggetto e la luce.

Danese unisce quindi la qualità del design alla qualità ecosostenibile del progetto attraverso scelte consapevoli delle implicazioni produttive, logistiche ed energetiche lungo tutto il ciclo di vita del prodotto.

Danese si fa esplicito portavoce di tematiche riguardanti le responsabilità ambientali della società contemporanea ponendosi in una prospettiva di rispetto del pianeta e riconoscendo l'importanza del contributo del singolo.

Con Danese Light e Space Design il vivere contemporaneo acquisisce nuove possibilità linguistiche ed insieme si confronta con le riflessioni positive di una progettualità consapevole, che apre nuovi significati al mondo del design.

Danese introduces its new collection "Light and Space Design Environmental Innovation". It interprets the values of its historical DNA in a contemporary way. Since its inception in 1957, Danese's consideration of man and his needs have been primary. Danese has also been a hub for experiments that have generated basic responses to the needs of society and its evolution. Designers such as Bruno Munari and Enzo Mari have been making Italian design history by developing innovative products that are contemporary and timeless interpretations of objects for every day use.

The new products represent the culture of respecting values that are still modern: simplification as research of what is essential, applied intelligence for convenient solutions, attention given to achieve quality surroundings that appeal to the senses and perceptions and sustainability of materials and semantics.

Through value sharing and cultural exchange, Danese offers, with a team of international designers, a new generation of products that allows a different perspective of spaces, creates open sceneries that go beyond any standardization and invites the user to consciously take part in his environment.

The widening of Danese's collection provides a complete and transversal offer of lights, accessories and furnishing systems that allows the user to totally renovate an environment. The collection embraces lighting options, complements furnishing and offers solutions that are versatile and can be tailor-made for the user so that he is in a position to modify and qualify the environments where he lives or works.

Danese has always adopted a linguistic code that is basic but recognizable on the principle that subtraction and simplicity translate into intelligent expressionistic design and not formalism.

Products demonstrate how you can find deepness, richness and value in bare minimum expressions and be fully satisfied by your relationship with the object and the light. Danese therefore unites the principles of quality design and eco-sustainability and makes conscious choices concerning productive, logistical and energetic processes throughout the whole life cycle of the product.

Danese is involved in all those issues concerning modern society's environmental responsibilities, respecting the planet and acknowledging the importance of the contribution of any single human being.

With Danese Light and Space Design, modern life acquires new expressive opportunities and utilizes a conscious and positive approach that introduces new meanings into the design world.



Stefano Boeri



Matali Crasset



Carlotta de Bevilacqua



Naoto Fukasawa



Ernesto Gismondi



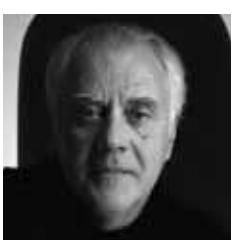
Martí Guixé



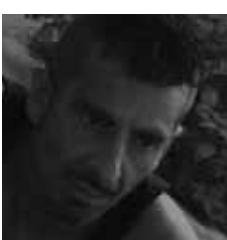
Modoloco Design



Bruno Munari



Mimmo Paladino



Gabi Peretto



Neil Poulton

Danese propose aujourd’hui les nouvelles collections Light et Space Design Environmental Innovation qui interprètent dans une optique contemporaine les valeurs de son identité historique. Depuis 1957, son année de naissance, Danese se situe par rapport à l’homme et à ses besoins et se propose comme lieu d’expérimentation où sont formulées des réponses élémentaires aux besoins d’une société et d’un contexte en évolution: des personnalités qui ont fait l’histoire du design italien telles que Bruno Munari et Enzo Mari développent ainsi des produits innovants, des interprétations à la fois actuelles et hors du temps des objets à usage quotidien. Les nouveaux produits sont nourris de cette culture de projet et en respectent les valeurs toujours actuelles: la simplification comme quête de l’essentiel, l’intelligence des solutions proposées, l’attention accordée à une qualité ambiante sensorielle et perceptive, la durabilité et la longue durée sémantique et matérielle.

Grâce au partage de valeurs et à l’échange culturel avec une équipe de designers internationaux, Danese propose une nouvelle génération de produits qui permettent d’envisager l’espace d’une manière différente, qui créent des contextes ouverts qui vont au-delà de toute standardisation et qui invitent à intervenir en toute connaissance de cause dans la définition de son propre espace.

L’extension de la collection Danese permet de reconstruire une qualité de l’environnement à 360° à travers une offre à la fois complète et transversale de lumière, de compléments et de systèmes d’ameublement adaptés à tout type d’espace – de la maison aux bureaux et aux espaces publics – pour modifier et qualifier l’utilisation et le confort des lieux, par le biais de solutions à la fois souples et personnelles.

Danese adopte depuis toujours un code linguistique, élémentaire mais en même temps reconnaissable, dont les qualités de dépouillement et de simplicité se traduisent par une expressivité issue d’une intelligence conceptuelle et non de purs formalismes. Produits issus aux contenus profonds, qui démontrent que même au minimum une haute valeur ajoutée peut être présente: le dépouillement et la simplicité produisent de l’innovation qualitative et ne se traduisent pas en absence, mais satisfont pleinement le besoin constant d’émotions, de relation avec l’objet et avec la lumière.

Danese allie ainsi la qualité du design à la qualité du développement durable du projet à travers le choix conscient des implications en termes de production, de logistiques et d’énergie pendant tout le cycle de vie du produit. Danese se fait le porte-parole de questions qui portent sur les responsabilités en matière d’environnement de la société contemporaine, dans une optique de respect de la planète et d’importance soulignée de la contribution de chacun.

Avec Danese, Light et Space Design, la vie contemporaine acquiert de nouvelles possibilités linguistiques et, parallèlement se mesure aux réflexions positives d’une créativité conceptuelle consciente, qui déploie de nouvelles significations dans le monde du design.

Danese bietet heute die neuen Kollektionen Light and Space Design Environmental Innovation an, welche in zeitgenössischer Weise die Werte seines historischen DNA auslegen. Seit 1957, dem Gründungsjahr, nimmt Danese den Menschen und seine Bedürfnisse als Bezugspunkt und gestaltet sich als Ort des Experimentierens, wo einfache Antworten auf die Bedürfnisse einer Gesellschaft und eines Kontextes hervorgebracht werden, die sich fortlaufend weiter entwickeln: Persönlichkeiten, die die Geschichte des italienischen Designs prägten, wie Bruno Munari und Enzo Mari, entwickelten auf diese Art innovative Produkte, aktuelle und zeitlose Interpretationen von Gegenständen für den täglichen Gebrauch. Die neuen Produkte übernehmen deren Projektkultur und halten sich an die Werte, die heute noch aktuell sind: die Vereinfachung als Suche nach dem Wesentlichen, die Intelligenz der angebotenen Lösungen, die Beachtung der Qualität in Bezug auf Umwelt, was die sinnliche und materielle Wahrnehmung anbelangt, die Vertretbarkeit, die lange semantische und materielle Dauer. Dank der gemeinsamen Werte und des kulturellen Austausches eines internationalen Designer-Teams bringt Danese eine neue Produktgeneration auf den Markt, die eine neue Vision des Raumes ermöglicht. Diese Produkte schaffen offene Szenarien, die jegliche Standardisierung überwinden, und laden ein, bewusst das eigene Ambiente zu definieren. Die Erweiterung der Danese-Kollektion ermöglicht es, durch ein komplettes und übergreifendes Angebot an Beleuchtungskörpern, Einrichtungsgegenständen und -systemen in jedem Raum – vom Wohnbereich über das Büro bis hin zum öffentlichen Ambiente – die Raumqualität rundum neu zu gestalten. Somit wird die Benutzung und Lebensqualität der Räume mit flexiblen und persönlichen Lösungen verändert und mit neuen Werten versehen. Seit jeher verwendet Danese einen einfachen, jedoch gut erkennbaren Sprachkodex, in dem sich der Ausschluss von Überflüssigem und die Einfachheit an sich in einer Ausdruckskraft zeigen, die das Ergebnis von Planungsintelligenz und nicht von formaler Strenge ist. Produkte mit tiefsinngem Inhalt, zeigen, dass auch im Minimalen ein hoher Mehrwert vorhanden sein kann: der Blick auf das Essentielle und die Einfachheit bringen eine qualitative Innovation hervor und drücken sich nicht als Mangel aus, sondern befriedigen in vollem Ausmaß den konstanten Bedarf nach Empfindungen, nach der Beziehung zum Gegenstand und zum Licht. Danese verbindet daher die Qualität des Designs mit der ökologisch vertretbaren Qualität des Projektes, und zwar indem für den gesamten Lebenszyklus des Produktes bewusst die möglichen produktiven, logistischen und energetischen Folgen bedacht werden.

Danese erklärt sich zum ausdrücklichen Sprecher für Themen, die sich auf die Verantwortlichkeit der zeitgenössischen Gesellschaft zur Umwelt beziehen, und erweist unserem Planeten den gebührenden Respekt, indem es erkennt, wie wichtig der Beitrag jedes Einzelnen ist.

Mit Danese Light and Space Design erwirbt die zeitgenössische Lebensweise neue linguistische Möglichkeiten und setzt sich zugleich mit den positiven Reflexionen eines bewussten Projektcharakters auseinander, welcher der Welt des Designs eine neue Bedeutung vermittelt.



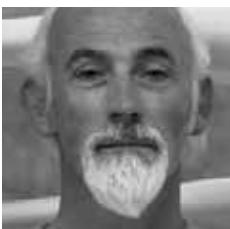
Giulio Iacchetti



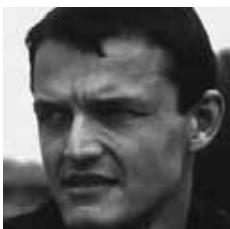
James Irvine



Asif Kahn



Ross Lovegrove



Massimo Mariani



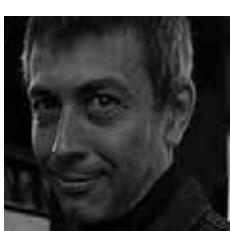
Marco Merendi



Matteo Ragni



Studio 63



Huub Ubbens



Paolo Ulian



Alberto Zecchini

ENVIRONMENTAL INNOVATION

Danese consolida il proprio percorso progettuale da anni orientato all'attenzione per la qualità ambientale: un'innovazione che attraverso la cultura del progetto intercetta i valori espressi nel "Manifesto della Buona Luce" e li rende concreti attraverso la sua produzione. La competenza maturata nel campo dell' illuminazione si esprime in prodotti dove la qualità della luce è centrale, light performance tecnicamente calcolate e controllate si combinano a espressività e attenzione agli aspetti più emotivi della percezione.

Il progetto della luce ricerca un equilibrio tra l'impegno energetico e la dinamica delle performance nello spazio, al centro del quale sta l'attenzione verso i bisogni e i comportamenti dell'uomo.

La luce Danese è caratterizzata da qualità fondamentali come una lunghissima durabilità, fisica e semantica, che va contro la dittatura del breve termine attraverso l'utilizzo di un linguaggio formale elementare, ampia flessibilità di performance e trasversalità d'utilizzo, scelte materiche e qualità produttiva, facile manutenibilità. l'intero ciclo di vita del prodotto Danese è progettato per sottrazione traducendosi in scelte consapevoli delle implicazioni produttive e logistiche. Sono privilegiate le tecnologie più semplici e meno dispendiose in termini di consumi energetici e di utilizzo di fonti non rinnovabili e la stretta collaborazione con attività produttive locali stabilisce un forte legame col territorio atto a potenziarne le risorse, oltre che a minimizzare flussi di trasporto ed emissioni in generale. Ogni prodotto è studiato sotto l'aspetto dell'efficienza energetica con particolare attenzione al consumo durante l'uso: dalla possibilità di utilizzo di sorgenti a basso consumo e lunga durata allo studio in fase di progettazione del rendimento degli apparecchi stessi. Scelte formali e materiche non seguono criteri puramente estetici ma sono filtrate da criteri di efficienza per ottimizzare flusso emesso e qualità della luce.

Danese consolidates its own design path, which for years has been focused on environment quality.

It is the creator of the innovation which interprets values giving voice to the "Manifesto della Buona Luce" and expresses them by producing high quality products.

The experience gained in the lighting field is conveyed in products where quality light is central and light performances are technologically monitored and put in relation with emotions and perceptions.

A good balance between energetic commitment and space performance dynamic is sought, focusing on men's needs and behaviours.

Danese's light is characterized by essential qualities such as very long durability of the materials and semantics.

This is thanks to the use of an elementary form of communication of the shape, ample performance flexibility, versatility, choices of materials, quality productivity and easy maintainability.

The entire cycle of Danese products is planned on the basis of a subtraction principle and foresees conscious choices concerning productive and logistic processes. The simplest and the least expensive technologies in terms of energy consumption and use of renewable resources are favoured.

The choice of a selective and strong collaboration with local productive factories establishes a strong bond with the territory.

Each product is planned while strongly considering energetic efficiency aspects, with a particular emphasis on use consumption: from low consumption and long lasting sources to the study of appliance efficiency in projecting them. Choices of shape and material are not made on the basis of purely aesthetic criteria but on efficiency to optimize stream and quality light.

materiali, colori, simboli, emissioni p. 204

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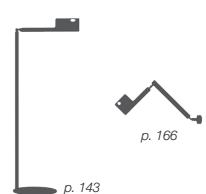
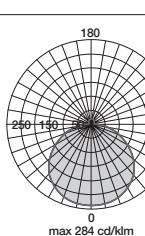
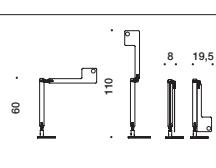
colore a cui si riferiscono i dati di rendimento

reference colour for efficiency data
couleur à laquelle les données de rendement se réfèrent
Farbe, auf die sich die Leistungsdaten beziehen

UNA tavolo

Carlotta de Bevilacqua 2009

material diffuser	material structure	colour	symbols	emission			
(22) + (34)	(22) + (34)	◆	IP20 ▽ □	●			
lamp		η lamp Lm/W	◊ R	η lamp Lm/W			
direct: 84x0,1W LED		60	100%	60			
indirect: 6x0,1W LED		60	100%	60			
xxxxxxxxxxxxxxxxxx							
on/off touch dimming control system							



sorgenti alternative

alternative sources
sources alternatives
alternative Lichtquellen

sorgente con il migliore rendimento

best efficiency source
source avec le meilleure rendement
Lichtquelle mit der besten leistung

dettaglio

detail
détails
Detail

famiglia, numero di pagina

product family, page number
famille produit, numéro de page
produktfamilie, Seitenzahl

CURVA FOTOMETRICA

Rappresenta la distribuzione delle intensità luminose (esprese in Candele/1000 Klm) emesse dall'apparecchio su piani passanti per l'asse ottico dello stesso.

PHOTOMETRIC BEND

it represents the light intensity distribution (in candles/1000 Klm) emitted by the luminaire on the planes that contain the optical axis of the luminaire.

COURBE PHOTOMÉTRIQUE

Elles représente la distribution des intensités lumineuses (exprimées en Candelas/1000 Klm) transmises par l'appareil sur des plans passant par l'axe optique de celui-ci.

FOTOMETRISCHE KURVEN

Sie stellen die Verteilung der Lichtintensitäten (ausgedrückt in Hefner-Kerzen/1000 Klm) dar, die vom Gerät auf die durchkommenden Ebene der Zielachse abgegebene werden.

Danese consolide son propre parcours conceptuel centré depuis des années sur la qualité de l'environnement: une innovation qui, grâce à la culture du projet, se nourrit des valeurs exprimées dans le "Manifesto della Buona Luce" et les rend concrètes à travers sa production.

Les compétences acquises dans le domaine de l'éclairage se traduisent dans des produits qui font de la qualité de la lumière une dimension essentielle: des performances d'éclairage techniquement calculées et maîtrisées se marient à une expressivité et à une attention accordée aux aspects les plus émotifs de la perception. Le projet de la lumière est en quête d'un équilibre entre le souci énergétique, la dynamique des performances dans l'espace, au centre duquel réside l'attention accordée aux besoins et les comportements de l'individu.

La lumière de Danese se caractérise par des qualités fondamentales telles que la très longue durée de vie, aussi bien en termes physiques que sémantiques, une qualité qui s'oppose au dictat du court terme à travers le recours à un langage formel élémentaire, une grande souplesse de performance et une transversalité d'utilisation, le choix des matériaux et la qualité de production, une grande facilité d'entretien.

Tout le cycle de vie du produit Danese est conçu par dépouillement et se traduit en choix conscients d'implications en termes de production et de logistiques. Les technologies les plus simples et les moins onéreuses en termes de consommation d'énergie et d'exploitation des ressources non renouvelables sont toujours privilégiées. Le choix d'une collaboration stricte et exclusive avec des entreprises de production locales instaure un lien étroit avec le territoire, permettant d'en développer les ressources et de minimiser les flux de transport et d'émission.

Chaque produit est conçu en veillant à l'efficacité énergétique avec une attention toute particulière à la consommation induite par son utilisation: de la possibilité d'utiliser des sources à basse consommation et longue durée de vie à l'étude, en phase de conception, du rendement des appareils. Le choix des formes et des matériaux ne répond pas à des critères purement esthétiques mais est filtrée avec des critères d'efficacité pour optimiser le flux émis et la qualité de la lumière.

Danese konsolidiert sein Projektverfahren, das sich seit Jahren an der Aufmerksamkeit gegenüber der Umweltqualität orientiert: eine Innovation, die über die Projektkultur die Werte abfängt, die im "Manifesto della Buona Luce" ihren Ausdruck finden und durch die Produktion von Danese konkretisiert werden. Die auf dem Gebiet der Beleuchtung erlangte Kompetenz spiegelt sich in Produkten wider, bei denen die Lichtqualität einen zentralen Aspekt darstellt: technisch kalkulierte und kontrollierte Light Performance in Kombination mit Ausdruckskraft und Aufmerksamkeit gegenüber den emotionaleren Aspekten der Wahrnehmung. Das Beleuchtungsprojekt sucht ein Gleichgewicht zwischen dem energetischen Einsatz, der Dynamik in Bezug auf die Raum-Performance, in deren Mittelpunkt die Aufmerksamkeit gegenüber den Bedürfnissen und Verhaltensweisen des Menschen steht.

Danese-Licht zeichnet sich durch grundlegende Qualitäten aus, wie zum Beispiel durch die überaus lange – sowohl physische als auch semantische – Dauer, welche sich durch den Einsatz einer einfachen, formalen Sprache gegen die Diktatur der Kurzfristigkeit stellt, durch die weitreichende Performance-Flexibilität und einen gebrauchsübergreifenden Aspekt, materialspezifische Entscheidungen und Produktionsqualität, aber auch durch einfache Wartung. Der gesamte Lebenszyklus des Danese-Produktes wird mit Konzentration auf das Essentielle geplant und stellt das Ergebnis von Entscheidungen dar, die sich der möglichen produktiven und logistischen Folgen bewusst sind. Die einfacheren und kostengünstigeren Technologien werden bevorzugt, was den Stromverbrauch und die Verwendung von nicht erneuerbaren Energiequellen anbelangt. Die Wahl einer ausschließlichen und engen Zusammenarbeit mit lokalen Produktionsstätten erweist sich darüber hinaus als enge Bindung zum Tätigkeitsgebiet, welche imstande ist, die Möglichkeiten gerade dieses Gebietes zu verstärken, und noch dazu den Transportfluss und somit die Umwelt-Emissionen im Allgemeinen auf ein Mindestmaß zu beschränken.

Jedes Produkt wurde in Bezug auf seine energetische Effizienz ausgearbeitet, mit besonderer Rücksicht auf den Verbrauch während der Verwendung: von der Möglichkeit der Verwendung von Lichtquellen mit niedrigem Stromverbrauch und langer Dauer bis zur Untersuchung der Geräte selbst während der Phase der Leistungsplanung. Die formale und materialspezifische Entscheidungen folgen nicht nur rein ästhetischen Kriterien, sondern werden sie durch effizienzbezogene Kriterien geleitet, um den ausgestromten Lichtfluss und die Lichtqualität zu optimieren.

$\eta_{\text{lamping}} \times R = \eta_{\text{lamp}}$

SOURCE EFFICIENCY = η_{LAMPING}

Esprime la capacità di una sorgente di trasformare l'energia elettrica assorbita in energia luminosa

Expresses the capacity of a source to transform the electrical energy absorbed into luminous energy

Exprime la capacité qu'a une source de transformer l'énergie électrique absorbée en énergie lumineuse

Drückt die Fähigkeit einer Lichtquelle aus, die absorbierte elektrische Energie in Leuchtentnergie umzuwandeln

EFFICIENCY = R

Esprime la capacità di un apparecchio di distribuire il flusso delle sorgenti con il minimo di perdite dovute all'assorbimento da parte del riflettore-diffusore o ad altri fattori

The relationship expressed in percentage conveys the capability of a fixture to distribute the stream of the sources with minimum losses due to the absorption of the reflector-diffuser or other reasons

Rapport exprimé en pourcentage qui exprime la capacité qu'à l'appareil de distribuer le flux des sources avec un minimum de pertes induites par l'absorption du réflecteur - diffuseur ou autres facteurs

Das in Prozent ausgedrückte Verhältnis gibt die Fähigkeit eines Gerätes wieder, den Lichtfluss der Quellen mit einem minimalen Verlust, der auf die Absorption durch den Reflektor/Diffusor oder andere Faktoren zurückzuführen ist, zu verteilen

LAMP EFFICIENCY = η_{LAMP}

Esprime la capacità un apparecchio di trasformare l'energia elettrica assorbita in energia luminosa

Expresses the capacity of the fixture to transform the electrical energy absorbed into luminous energy

Exprime la capacité qu'a un appareil de transformer l'énergie électrique absorbée en énergie lumineuse

Drückt die Fähigkeit eines Gerätes aus, die absorbierte elektrische Energie in Leuchtentnergie umzuwandeln

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TRACK

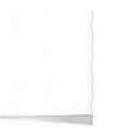
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RECESSED

Due120/160/200
incasso
semi-incasso
86



Due 300
incasso
semi-incasso
94



Due 300 Quadra
incasso
semi-incasso
96



Miyako
120



Una Pro
42



Una Pro
semi incasso
36



Una Pro 75
Una Pro 75 IP
62-65



Una Pro 75 RGB/RWB
Una Pro 75 RGB/RWB IP
68-71



Una Pro 80
74



Una Pro 80
diffondente IP
74



Una Pro 150
80



Una Pro monoled
85



CEILING

3.0
188



Una Pro 75 Track
72



Due120/160/200
SMD
93



Una Pro 150
78



Due 300
94



Una Pro 150 IP
78



Due 300 Quadra
96



Una Pro monoled
SMD
85



Cocktail
203



Itka
184



Miyako
120



Ogun
204



Squadrata
118



Tet
196



Xiao Tet
197



Una Pro 75 SMD
58



Una Pro 75 SMD IP
60



Itka
184

Squadra
118

Una Pro
48

Una Pro 75 SMD
60

Una Pro 75
incasso
65

Una Pro 75 incasso
RGB / RWB
71

Una Pro 80
incasso diffondente
74

Una Pro 80
incasso
74

Una Pro 150
soffitto
78

Una Pro 150
parete
80

Una Promonoled
SMD
85

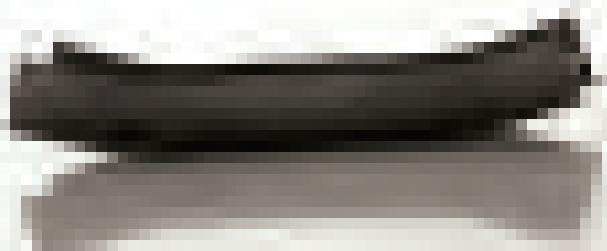
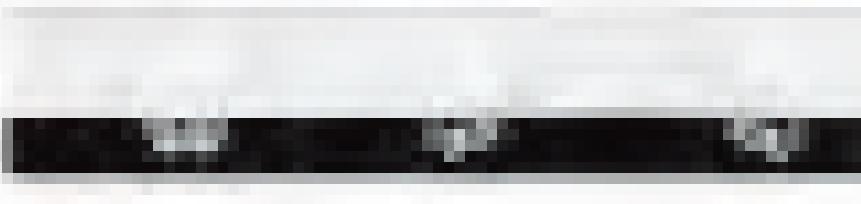
Una Pro monoled
incasso
85

3.0
188

Una Pro
50

Una Pro 75
68

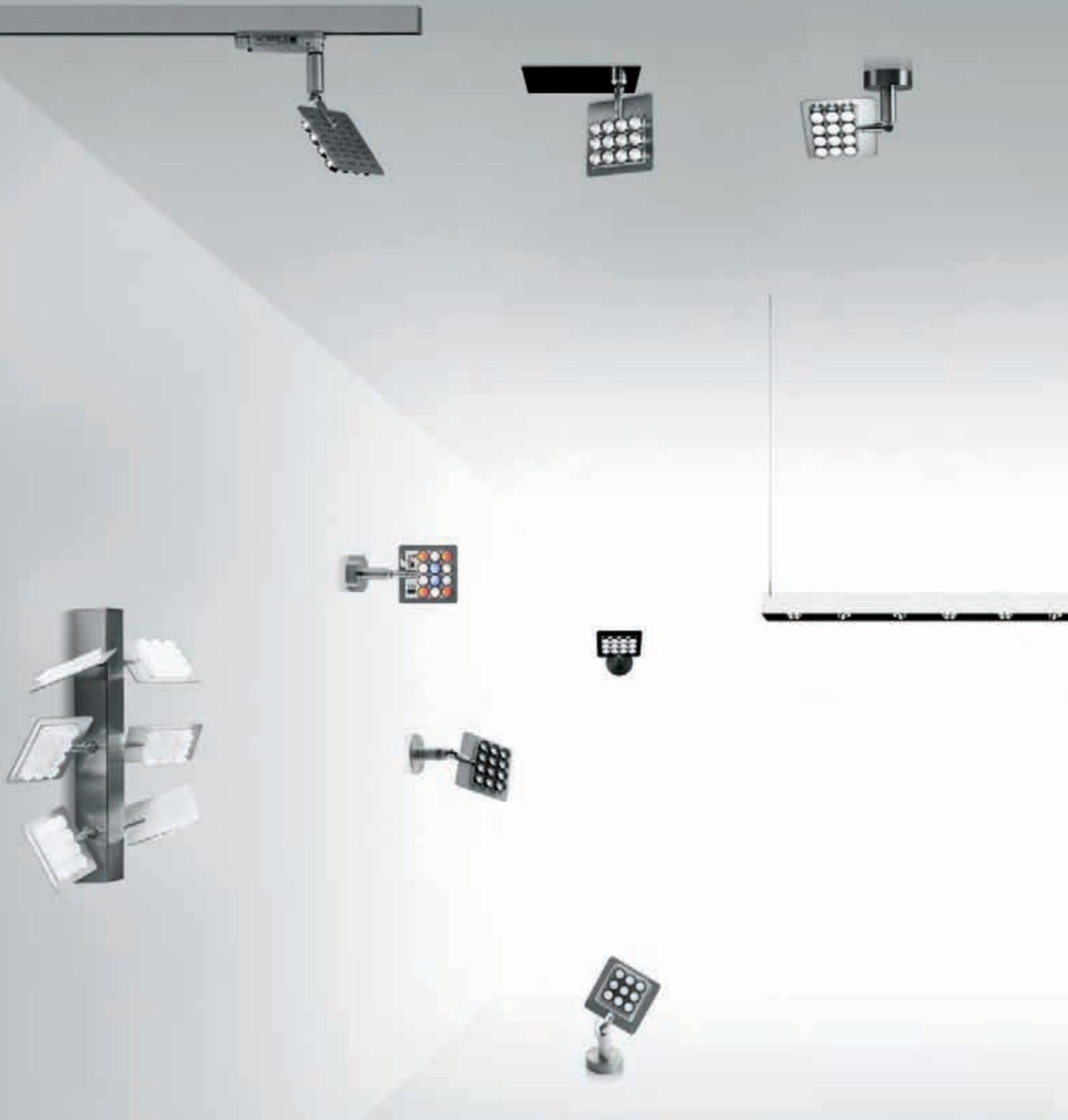
Una Pro 75
RGB / RWB IP
71





professional

LIGHT



La famiglia UNA PRO - UNA PRO 75 - UNA PRO 80 - UNA PRO 150 costituisce una piattaforma progettuale che accoglie singoli elementi e sistemi che combinandosi rendono possibile un nuovo modo di pensare la luce.

Questo progetto definisce un abaco non solo di prodotti ma di luce studiata a partire dal rapporto con l'uomo e con lo spazio in cui essa viene messa in scena.

Molteplici e flessibili performance assicurano la risposta alle diverse esigenze, sia in termini spaziali che in termini di prestazioni luminose, adattandosi a tutte le esigenze del privato e del pubblico, in interni ed esterni.

L'intera famiglia di prodotti è frutto di una ricerca sperimentale riconosciuta da brevetti, sintesi non solo di innovazione tecnologica ma anche di un nuovo modo di vedere la luce, di rispondere alle esigenze contemporanee interpretando le nuove possibilità offerte dalle sorgenti led.

Si realizza così un cambio di paradigma nel rapporto con l'uomo e l'ambiente: una luce buona che si tocca, crea consapevolezza permettendo di dosarne le performance in modo più diretto, dai bassissimi consumi elettrici, composta da materiali riciclati e riciclabili, formalmente ridotti al minimo necessario e resistenti nel tempo.

The UNA PRO - UNA PRO 75 - UNA PRO 80 - UNA PRO 150 is a design platform where single elements and systems unite and make it possible to think about light in a new way. This project defines a range not only of products but of light, which is studied from the viewpoint of its relation with man and the space where it is staged.

Multiple and flexible types of light output performance ensure a correct answer to different needs, in both spatial and luminous performance terms, adapting to any private or public need, both indoor and outdoor.

The whole product family is the result of patent-awarded experimental researches, a synthesis of technological innovation and of a new way of interpreting light and meeting contemporary needs, interpreting the new chances offered by LED based sources.

This is how a paradigm change occurs in the relationship with man and environment: a good, touchable light that creates awareness and permits a more direct dosing of the performance, with very low electrical consumption and consisting of recycled and recyclable materials formally reduced to a minimum and granting high durability.



La famille UNA PRO - UNA PRO 75 - UNA PRO 80 - UNA PRO 150 constitue une plate-forme de projet rassemblant des éléments individuels et systèmes qui, en s'associant, offrent une nouvelle manière de concevoir la lumière.

Ce projet représente un aboutissement pas seulement de produits mais de lumière, étudiée à partir du rapport avec l'homme et avec l'espace dans lequel elle est mise en scène.

Des performances multiples et souples, en mesure de répondre à toutes les exigences, aussi bien en termes d'espaces que d'apport de lumière, s'adaptant aux besoins des espaces privés et publics, intérieurs et extérieurs.

Cette famille de produits est le fruit d'une recherche expérimentale brevetée, synthèse non seulement de l'innovation technologique mais aussi d'une nouvelle manière de voir la lumière, de répondre aux exigences modernes en interprétant les nouvelles possibilités offertes par les sources leds.

Un changement de paradigme dans le rapport qui unit l'homme et l'environnement s'accomplit : une bonne lumière que l'on peut toucher crée une conscience permettant d'en doser les performances de façon plus directe, avec des consommations en électricité très réduites et des matériaux recyclés et recyclables, formellement limités au strict minimum et résistants dans le temps.

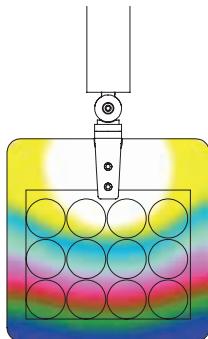
Die Produktfamilie UNA PRO - UNA PRO 75 - UNA PRO 80 - UNA PRO 150 stellt eine Entwurfsplattform dar, die einzelne Elemente und Systeme aufnimmt und verbindet und somit eine neue Idee des Lichts ermöglicht.

Dieses Projekt definiert einen Abakus, der nicht nur aus Produkten, sondern auch aus Licht besteht. Dieser Abakus wurde seit dem Beginn des Verhältnisses zwischen Mensch und Raum, indem das Licht in Szene gesetzt wird, studiert.

Zahlreiche und flexible Leistungen garantieren für eine Lösung für verschiedene räumliche oder lichtleistungstechnische Bedürfnisse, da sie an alle Anforderungen im Innen- und Außenbereich des Wohnraums und in öffentlichen Einrichtungen anpassbar ist.

Die gesamte Produktfamilie ist das Ergebnis einer durch Patente belegten experimentellen Forschung, eine Synthese von technologischer Innovation und einer neuen Art des Lichts, durch neue Möglichkeiten der LED-Lichtquellen, auf moderne Bedürfnisse einzugehen.

Es entsteht dadurch ein Paradigmawechsel im Verhältnis zwischen Mensch und Umwelt: ein gutes, berührbares Licht, das durch die direkte Dosierung der Leistung Bewusstsein schafft, einen sehr niedrigen Stromverbrauch ermöglicht, aus altem und erneuerbarem Material besteht, wenig Platz bedarf und resistent ist.



. Patent Pending N° MI2010A000185

Apparecchio di illuminazione a led ad alta potenza applicati su lastra piana a spessore ridotto con dissipazione termica migliorata

. Patent Pending N° MI2010A000185

Light fixture with power led on low thickness sheet with improved thermal dissipation

. Patent Pending MI2010A000185

Appareil d'éclairage à leds à haute puissance appliquées sur une plaque d'épaisseur réduite avec dissipatior thermique améliorée

. Anglemeldetes Patent MI2010A000185

Beleuchtungsgerät mit Hochleistungsleds auf flacher, schmaler Platte mit verbesselter Wärmeableitung

CERTIFICAZIONE LEED

Le caratteristiche tecniche di UNA PRO rappresentano una scelta ideale quando si voglia persegui una certificazione LEED, infatti, a seguito dell'analisi effettuata da esperti "LEED® Accredited Professional" sono stati ufficialmente riconosciuti alcuni requisiti fondamentali di ecosostenibilità, ovvero:

- . Conservazione dell'energia
- . Riduzione di emissioni (effetto serra) e inquinamento
- . Utilizzo di materiale riciclato
- . Incremento del valore nel tempo dell'edificio dove vengono introdotte

. Crediti certificazione LEED®

- . Siti Sostenibili (SS): 1 punto
- . Energia e Atmosfera (EA): 1-19 punti e 1 prerequisito
- . Materiali e Risorse (MR): 1- 4 punti
- . Qualità Ambientale Interna (QI): 1 punto
- . Innovazione nella Progettazione (IP): 1-5 punti

CERTIFICATION LEED

Les caractéristiques techniques d'UNA PRO représentent un choix idéal lorsque l'on souhaite obtenir une certification LEED, en effet, suite à l'analyse effectuée par des spécialistes "LEED® Accredited Professional" certaines exigences fondamentales en termes de durabilité écologique ont été officiellement reconnues, c'est-à-dire:

- . Conservation de l'énergie
- . Réduction des émissions (effet de serre) et pollution
- . Utilisation de matériaux recyclés
- . Augmentation, dans le temps, de la valeur de l'édifice où ces éléments sont introduits

. Crédit de certification LEED®

- . Sites Durables (SS) : 1 point
- . Énergie et Atmosphère (EA) : 1-19 points et 1 condition nécessaire
- . Matériaux et Ressources (MR) : 1 - 4 points
- . Qualité des Environnements Intérieurs (QI) : 1 point
- . Conception et innovation (IP) : 1-5 points

LEED CERTIFICATION

The technical characteristics of UNA PRO are an ideal choice when you want to pursue a LEED certification, in fact, following the analysis carried out by "LEED® Accredited Professional" experts, some fundamental requirements of environmental sustainability have been officially recognized:

- . Energy conservation
- . Harmful greenhouse gas emissions reduction
- . Use of Recycled materials
- . Building asset value increase

. LEED® certification's credits

- . Sustainable sites (SS): 1 point
- . Energy & Atmosphere (EA): 1-19 points and 1 prerequisite
- . Materials and Resources (MR): 1 - 4 points
- . Indoor Environmental Quality (QI): 1 point
- . Innovation in Design (IP): 1-5 points

LEED ZERTIFIZIERUNG

Die technischen Merkmale von UNA PRO sind die ideale Wahl, wenn man eine LEED Zertifizierung erhalten möchte. Nach einer von "LEED® Accredited Professional" Experten durchgeföhrten Analyse wurden einige wesentliche Anforderungen bezüglich der Nachhaltigkeit festgelegt, wie:

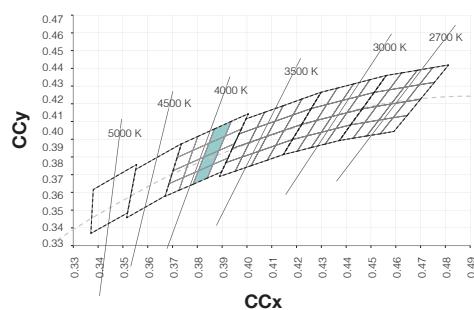
- . Energieersparnis
- . Reduzierung von Emissionen (Treibhauseffekt) und Umweltverschmutzung
- . Verwendung von Recyclingmaterial
- . Zukünftige Werterhöhung des Gebäudes, in denen die Leuchten montiert werden

. Kredit der Zertifizierung LEED®

- . Nachhaltige Standorte (NS): 1 Punkt
- . Energie und Atmosphäre (EA): 1 - 19 Punkte und 1 Voranforderung
- . Baustoffe und Ressourcen (BR): 1 - 4 Punkte
- . Innenraum-Umweltqualität (IQ): 1 Punkt
- . Innovation und Planungsprozess (IP): 1 - 5 Punkte

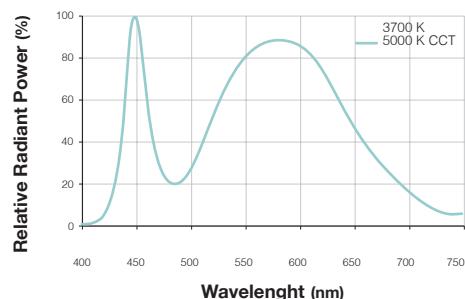




NEUTRAL WHITE 3700K / CRI (Ra) 80**BIN**

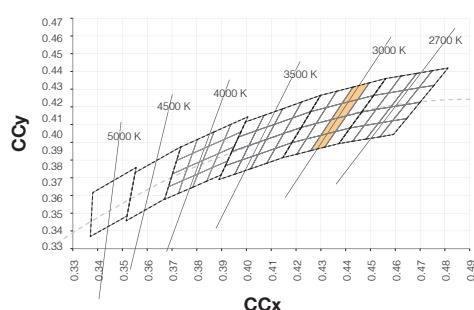
La specifica selezione dei BIN all'interno delle temperature di colore dichiarate garantisce costanza di temperatura di colore dei led forniti sia all'interno del lotto di produzione che nel tempo evitando differenze visibili anche ad occhio nudo.

The particular selection of BIN in the stated color temperatures guarantees a steady color temperature in the supplied LED, in the same production batch and also in time, avoiding such differences that can be also visible to the naked eye.

SPECTRAL DIAGRAM

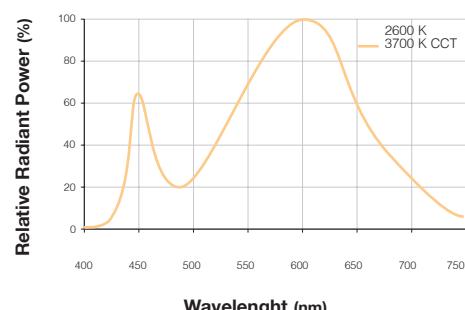
La sélection spécifique des BIN dans les températures de couleur déclarées garantit une température de couleur stable de LED fournis, soit dans le même lot de production soit dans le temps, en évitant les différences qui peuvent être également visible à l'œil nu.

Die genaue Auswahl von BIN in den angegebenen Farbtemperaturen garantiert eine dauerhafte Farbtemperatur der gelieferten LED, in der gleichen Produktion und auch in Zeitverlauf. Das ermöglicht solche Unterschieden zu vermeiden, die auch mit bloßem Auge sichtbar sein können.

WARM WHITE 3000K / CRI (Ra) 85**BIN**

La specifica selezione dei BIN all'interno delle temperature di colore dichiarate garantisce costanza di temperatura di colore dei led forniti sia all'interno del lotto di produzione che nel tempo evitando differenze visibili anche ad occhio nudo.

The particular selection of BIN in the stated color temperatures guarantees a steady color temperature in the supplied LED, in the same production batch and also in time, avoiding such differences that can be also visible to the naked eye.

SPECTRAL DIAGRAM

La sélection spécifique des BIN dans les températures de couleur déclarées garantit une température de couleur stable de LED fournis, soit dans le même lot de production soit dans le temps, en évitant les différences qui peuvent être également visible à l'œil nu.

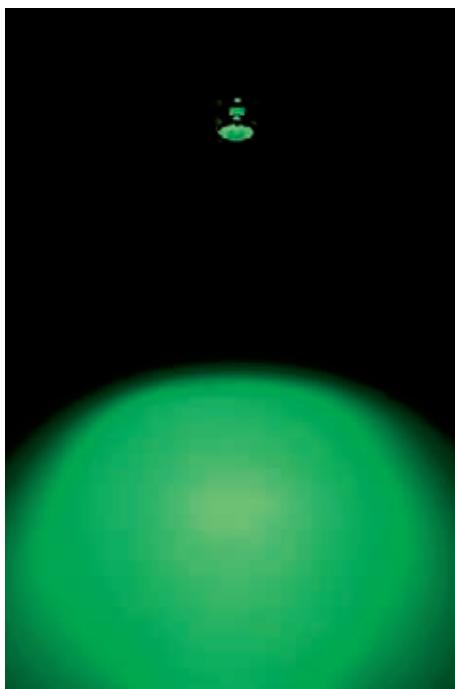
Die genaue Auswahl von BIN in den angegebenen Farbtemperaturen garantiert eine dauerhafte Farbtemperatur der gelieferten LED, in der gleichen Produktion und auch in Zeitverlauf. Das ermöglicht solche Unterschieden zu vermeiden, die auch mit bloßem Auge sichtbar sein können.

RGB / RWB

RGB RED



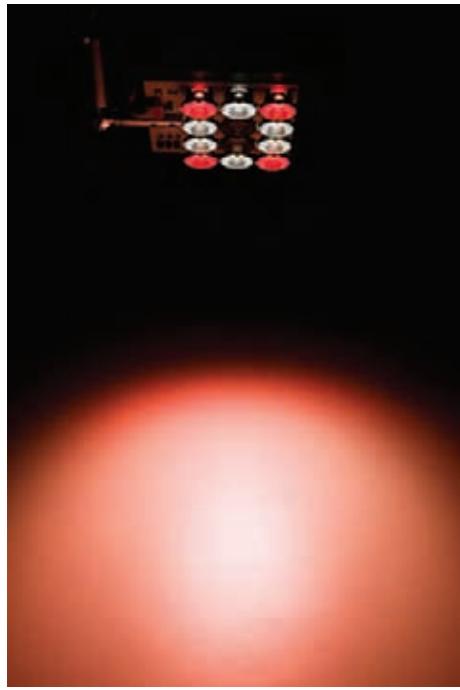
RGB GREEN



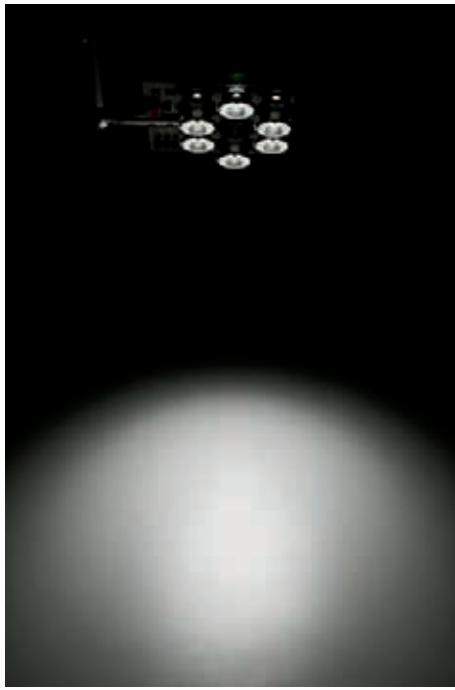
RGB BLUE



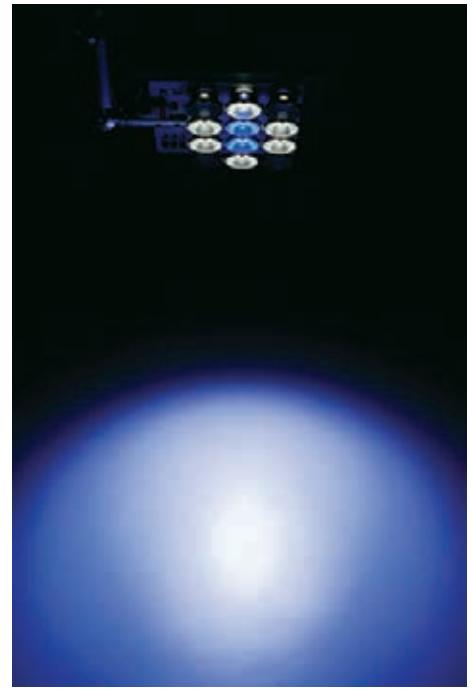
RWB RED



RWB WHITE



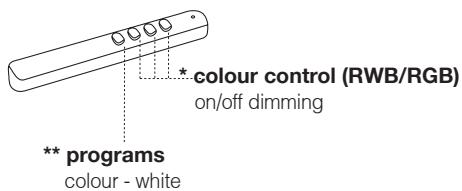
RWB BLUE



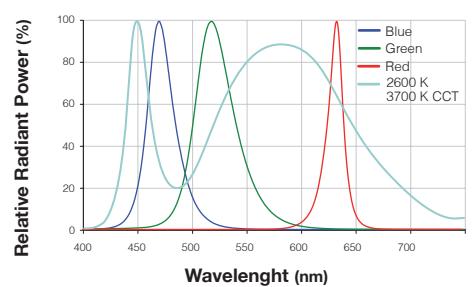
EASY

IR remote control

separate management of the three channels

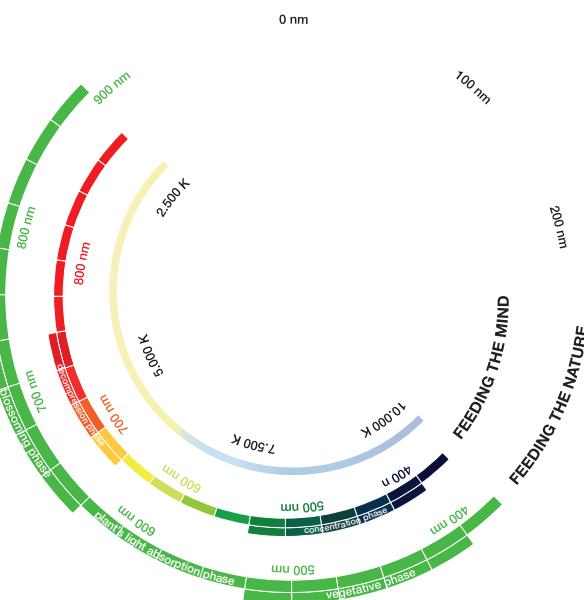


SPECTRAL DIAGRAM



3500 - 2800 K WARM WHITE

Warm colour temperature: atmosphere of relax and rest, with simple visual tasks



5000 - 3700 K NEUTRAL WHITE

Neutral colour temperature: increase in the photometric values required for more complex visual tasks

600 - 780 nm RED

Nature: it influences plant photosynthesis by favouring blooming.

Mind: relaxing and anti-stress effect

400 - 520 nm BLU

Nature: it helps chlorophyll absorption supporting plant vegetative stage.

Mind: increase in attention and productivity levels, it favours meditation and creativity.

10000 - 5000 K COOL WHITE

Cold colour temperature: increase in attention and concentration.

Patent Pending N° MI2010A000657

Apparecchio di illuminazione con sorgenti RWB ad emissione variabile gestibile per garantire la funzionalità di illuminamenti adeguati, il benessere psicofisico dell'uomo e la crescita delle piante.

Una RWB è un nuovo modo di interpretare la luce colorata, è attenta al benessere psicofisico dell'uomo ma anche all'ambiente, allo sviluppo delle piante e non solo alla messa in scena della natura. È un cambio di paradigma che si inserisce in un più generale percorso di attenzione all'ambiente sviluppato da Danese. Una RWB concretizza i risultati brevettati di ricerche tecnologico-sperimentali: è una luce dai bassissimi consumi, che non scalda, aiuta la crescita delle piante favorendo i processi fotobiologici, può creare effetti scenografici e d'atmosfera o garantire un'illuminazione bianca funzionale.

I led rossi, blu e bianchi sono gestibili e dimmerabili separatamente così da adeguarsi con la massima flessibilità alle esigenze dell'uomo e poter seguire nel migliore dei modi lo sviluppo della pianta calibrando le emissioni sui valori di PPFD (Photosynthetic Photon Flux Density) necessario alla fotosintesi clorofilliana nelle diverse fasi della crescita delle piante.

Patent Pending N° MI2010A000657

Appareil d'éclairage avec sources RWB à émission variable pouvant être gérées pour assurer la fonctionnalité d'éclairages appropriés, le bien-être psychophysique de l'homme et la croissance des plantes.

Una RWB représente une nouvelle manière d'interpréter la lumière colorée, elle prête attention au bien-être psychophysique de l'homme mais aussi de l'environnement, de la croissance des plantes et pas seulement à la mise en scène de la nature.

Il s'agit d'un changement de paradigme qui s'inscrit au sein d'un parcours plus général d'attention pour l'environnement développé par Danese. Una RWB concrétise les résultats brevetés de recherches technologiques et expérimentales : c'est une lumière à très faible consommation qui ne chauffe pas, contribue à la croissance des plantes favorisant les procédés photobiologiques, pouvant créer des effets scénographiques et d'ambiance ou offrir une lumière blanche fonctionnelle.

Les leds rouges, bleues et blanches peuvent être gérées et réglées séparément de façon à s'adapter avec souplesse aux exigences de l'homme et pouvoir suivre de la meilleure des manières le développement de la plante, adaptant les émissions selon les valeurs de PPFD (Photosynthetic Photon Flux Density) nécessaire à la photosynthèse chlorophyllienne au cours des différentes étapes de la croissance des plantes.

Patent Pending N° MI2010A000657

Light fixture with variable emission RWB led to guarantee functional needs, cares for the psycho physical well-being and the growth of plants.

RWB is a new way of interpreting the coloured light. It does not only limit to represent the nature, but actually cares for the psycho physical well-being of persons, as well as for the environment and the growth of plants.

A change in the approach that is part of Danese wider process of increasing attention to the environment. RWB is the realization of the patented results of technologic-experimental researches: it is a lamp with extremely low consumption, which does not heat up and helps plant growth by favouring the photobiological processes, besides creating ambience and stage effects or guaranteeing functional white lighting.

Red, blue and white LEDs can be controlled and dimmed separately, so to meet all people needs with maximum flexibility and to best follow plant growth adjusting light emission to the PPFD (Photosynthetic Photon Flux Density) values necessary for photosynthesis during the various stages of plant growth.

Patent Pending N° MI2010A000657

Beleuchtungsgerät mit RWB-Lichtquelle mit steuerbarer, variabler Emission, wodurch die angemessene Beleuchtung, das psychophysische Wohlbefinden des Menschen und das Wachstum der Pflanzen gewährleistet werden soll.

Una RWB ist ein neuer Weg der Interpretation farbigen Lichts. Es sorgt für das psychophysische Wohlbefinden des Menschen und der Umwelt, für das Wachstum von Pflanzen und nicht nur für die Inszenierung der Natur.

Es ist ein Paradigmawechsel, der sich in einen allgemeineren Aufmerksamkeitsweg in der von Danese geplanten Umgebung einfügt. Una RWB verwirklicht die patentierten Ergebnisse von technologisch-experimentellen Forschungen: Es ist ein Licht mit sehr niedrigem Verbrauch, das sich nicht erwärmt, das Pflanzenwachstum durch die Förderung der photobiologischen Prozesse steigert, wirkungsvolle Effekte schafft oder für eine funktionale weiße Beleuchtung garantiert.

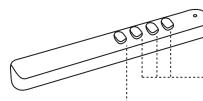
Die roten, blauen und weißen LEDs sind separat steuer- und dimmbar. Sie garantieren somit für die größtmögliche Flexibilität bei der Anpassung an die Bedürfnisse des Menschen und für ein ausgezeichnetes Pflanzenwachstum, denn sie kalibrieren die Emissionen nach den PPFD-Werten, die für die Photosynthese des Chlorophylls in den verschiedenen Wachstumsphasen der Pflanzen erforderlich sind.

COLOUR AND COLOUR TEMPERATURE CONTROL

EASY

IR remote control

separate management of the three channels



* colour control (RWB/RGB)
on/off dimming

** programs
colour - white

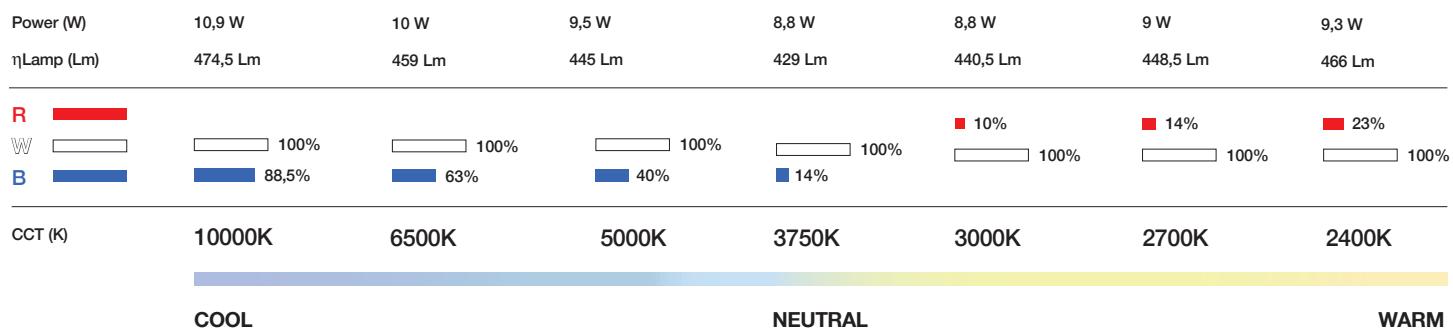
ADVANCED

Dali or DMX

RWB: white tunable system with preset color temperatures from 2700 to 6500 K or separate management of the three channels

RGB: system with preset color scenery or separate management of the three channels

WHITE 6x1,4W tot 8,4W 57,5 Lm/W CCT 3000K Ra85
RED 4x1W tot 4W 56,8 Lm/W wavelenght 625nm
BLU 2x1,4W tot 2,8W 25 Lm/W wavelenght 450nm
100% = 350 mA
R optic = 87%



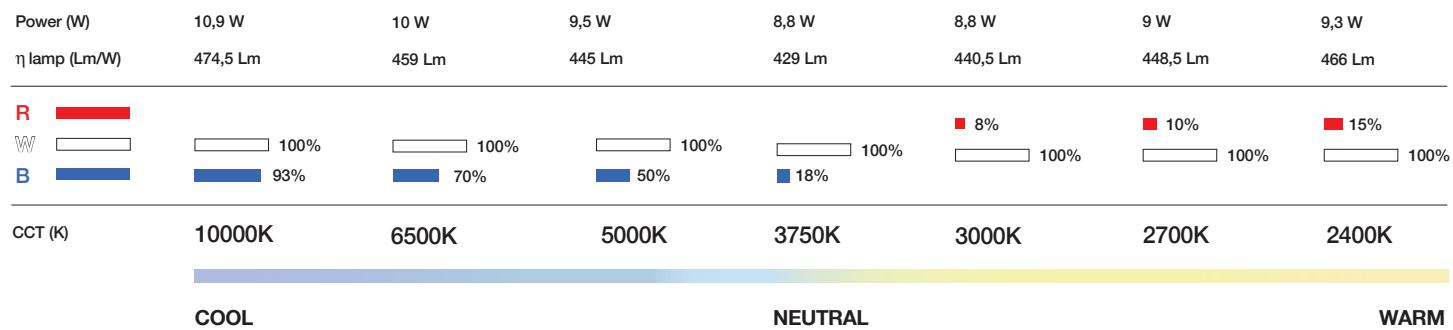
ADVANCED

Dali or DMX

RWB: white tunable system with preset color temperatures from 2700 to 6500 K or separate management of the three channels

RGB: system with preset color scenery or separate management of the three channels

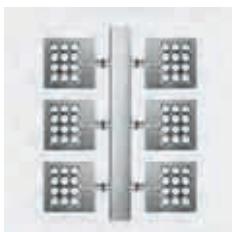
WHITE 6x1,4W tot 2,8W 57,5Lm/W CCT3000 Ra85
RED 4x1W tot 1W 56,8Lm/W wavelenght 625nm
BLU 2x1,4W tot 1,4W 25Lm/W wavelenght 450nm
100% = 500 mA
R optic = 87%



UNA PRO - *Carlotta de Bevilacqua 2010*





	parete / soffitto	<p>. 9 LED x 1 W / 12 LED x 1 W / 16 LED x 1,03 W . LENS 6° / 20° / 38°</p> <p>IP20 F □ ■ 0,7 kg T ◇ ◆ ◇</p>	STANDARD	OPTIONAL	pag. 26
			3700 K Ra 80 	3000 K Ra 85 	
	semi-incasso	<p>. 9 LED x 1 W / 12 LED x 1 W / 16 LED x 1,03 W . LENS 6° / 20° / 38°</p> <p>IP20 F □ ■ 0,9 kg T ◇ ◆ ◇</p>	STANDARD	OPTIONAL	pag. 36
			3700 K Ra 80 	3000 K Ra 85 	
	IP	<p>. 9 LED x 1 W . LENS 6° / 20° / 38°</p> <p>IP65 F □ ■ 0,9 kg T ◇ ◆ ◇</p>	STANDARD	OPTIONAL	pag. 48
			3700 K Ra 80 	3000 K Ra 85 	
	binario	<p>. 9 LED x 1 W / 12 LED x 1 W / 16 LED x 1,03 W . LENS 6° / 20° / 38°</p> <p>IP20 F □ ■ 0,63 kg T ◇ ◆ ◇</p>	STANDARD	OPTIONAL	pag. 40
			3700 K Ra 80 	3000 K Ra 85 	
	incasso	<p>. 9 LED x 1 W / 12 LED x 1 W / 16 LED x 1,03 W . LENS 6° / 20° / 38°</p> <p>IP20 F ⊖ ■ 1,6 kg T</p>	STANDARD	OPTIONAL	pag. 42
			3700 K Ra 80 A ◇ + B ◆  A ◆ + B ◇ A ◇ + B ◆	3000 K Ra 85 A ◇ + B ◇  A ◆ + B ◇ A ◇ + B ◆	
	multispot	<p>. 9 LED x 1 W / 12 LED x 1 W / 16 LED x 1,03 W . LENS 6° / 20° / 38°</p> <p>IP20 F ⊖ ■ 4,3 kg T ◇ ◆ ◇</p>	STANDARD	OPTIONAL	pag. 46
			3700 K Ra 80 	3000 K Ra 85 	
	RGB / RWB	<p>12 LED x 1 W . LENS 6° / 20° / 38°</p> <p>IP20 F □ ■ 0,7 kg T ◇ ◆ ◇</p>	STANDARD	OPTIONAL	pag. 50
					

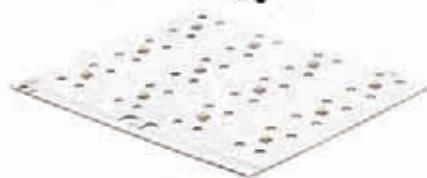
OPTICS - LENSES



OPTICS - HOLDERS



CIRCUIT



DOUBLE - SIDED TAPE



PLATE

JOINT



UNA PRO

UNA PRO mette in discussione l'idea, l'icona stessa del classico spot rivedendola alla luce delle innovazioni tecnologiche e riconSIDerando l'immagine e gli elementi primari di un'intera tipologia di apparecchi di illuminazione attraverso una nuova visione che punta alla riduzione di consumi energetici e di materia, ma al tempo stesso di miglioramento della durata e delle qualità della luce.

Il risultato ottenuto grazie ad una rete di competenze e di ricerca sperimentale è un sistema di spot che offre la stessa risposta qualitativa dei precedenti con sorgente alogena ma li supera grazie ad un bilancio energetico nettamente migliore (circa l'80% di consumi in meno), ad un'apertura a un'interattività nuova offerta dalla possibilità di toccare la luce, muoverla ed interagire con essa, ad un rapporto con lo spazio rivoluzionato dalla flessibilità di performance che si accompagnano a una presenza praticamente inconsistente dell'apparecchio grazie ai soli 3 mm di spessore della piastra su cui sono montati i led.

UNA PRO met en discussion l'idée, l'icône elle-même du spot classique, en la repensant à la lumière des innovations technologiques et reconSIDerant l'image et les éléments primaires d'un type d'appareils d'éclairage à travers un nouveau point de vue, qui vise à réduire les consommations d'énergie et de matériaux mais, en même temps, à prolonger la durée et améliorer la qualité de la lumière.

Le résultat, obtenu grâce à un réseau de compétences et de recherche expérimentale, est un système de spots offrant la même réponse, en termes de qualité, que les précédents, avec source halogène, mais qui les dépasse grâce à un bilan énergétique nettement meilleur (une consommation réduite de 80%), à l'accès à une nouvelle interactivité offert par la possibilité de toucher la lumière, la déplacer et interagir avec elle, à un rapport avec l'espace réinventé par la souplesse de la performance, s'accompagnant d'une présence pratiquement inconsistante de l'appareil, grâce à l'épaisseur minimale (3 mm seulement) de la plaque sur laquelle sont montées les leds.

JOINT

La massima flessibilità di UNA PRO è garantita da un piccolo snodo che consente un movimento di rotazione su due assi praticamente a 360° e sul terzo a 180°. Questo consente una totale libertà di movimento nello spazio delle diverse teste. La regolazione è immediata, grazie allo studio della dissipazione del calore la piastra che costituisce il corpo della lampada può essere liberamente toccato per direzionare nel modo più semplice ed intuitivo il fascio di luce.

La flessibilità aiuta inoltre a garantire un'integrazione perfetta con qualsiasi spazio e linguaggio architettonico. Una Pro può nascondersi fino a scomparire nella versione ad incasso, ed essere una presenza discreta che sottolinea l'importanza più della luce emessa che dell'apparecchio.

L'extrême souplesse d'UNA PRO est assurée par une petite articulation qui permet une rotation du produit sur deux axes, quasiment à 360° et sur le troisième à 180°. Cela permet une liberté de mouvement totale dans l'espace des différentes têtes. Le réglage est immédiat, grâce à l'étude de la dissipation thermique, la plaque qui constitue le corps de la lampe peut être touchée librement en vue d'orienter le faisceau de lumière de façon extrêmement simple et intuitive. De plus, la souplesse contribue à assurer une intégration parfaite avec tous les espaces et langages architecturaux. Una Pro peut se dissimuler voire même disparaître dans la version encastrable, et se faire discrète, soulignant plutôt l'importance de la lumière émise que de l'appareil.

UNA PRO is the result of a new design approach. The objective was to obtain the same high performance of a halogen spotlight from a LED one, but at the same time the classic spotlight icon was brought up for discussion. Thanks to new significant technological innovation, the old concept had to be reinvented and so did the looks and main features of an entire category of luminaries. Important purposes were also energy and material saving and light duration.

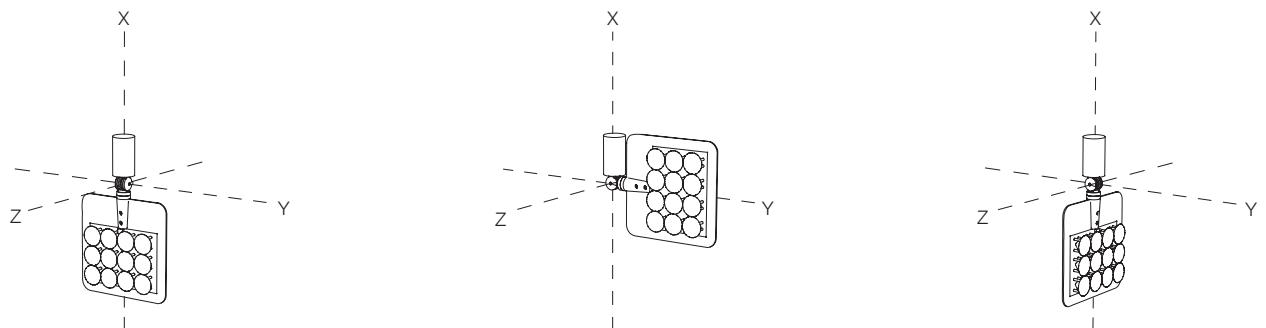
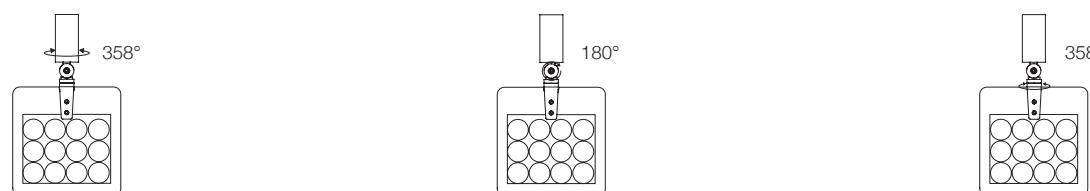
Due to innovative research and a well-proven expertise, the spotlight system performance is the same as that of previous halogen systems but the overall performance achieved is much better. In fact, the energy consumption of these spotlights is low, the user's relationship with the environment is revolutionary, his interaction with it is free and creative. In addition the the light fixture appears thin due to the flat profile (only 3 mm).

UNA PRO stellt die Idee, das Symbol selbst des klassischen Spots in Frage, überholt es anhand der technologischen Innovationen und überdenkt das Aussehen und die primären Elemente einer ganzen Typologie beleuchtungstechnischer Geräte nach einer neuen Vision, die eine Reduzierung des Energie- und Stoffverbrauchs anstrebt, aber gleichzeitig die Lebensdauer und Qualität des Lichts verbessert.

Das durch ein Netz von Fachmännern und experimenteller Forschung erzielte Ergebnis ist ein Spot-System, das dieselbe Qualität wie seine Vorgänger mit Halogenlichtquelle bietet, aber eine eindeutig bessere Energiebilanz (zirka 80% weniger Verbrauch) aufweist. Es eröffnet die Möglichkeit für eine neue Interaktivität - das Licht zum Anfassen, Bewegen und Interagieren – in einem Verhältnis mit dem durch die Flexibilität der Performance revolutionierten Raum und dem praktischen Nichtvorhandensein des Geräts durch die nur 3 mm dicke Platte, auf der die LEDs montiert sind.

Flexibility is guaranteed by a small joint that allows a 360° rotation on two axis and a 180° rotation on the third one ensuring a total freedom of movement to the different heads. UNA PRO fits in any type of environment and adapts itself to all sorts of architectural choices. It is very subtle the attention is given to light emission and its expressiveness and not to the product's shape.

Die größtmögliche Flexibilität von UNA PRO wird durch ein kleines Gelenk gewährleistet, das auf zwei Achsen eine Drehbewegung von praktisch 360° und auf der dritten Achse von 180° ermöglicht. Dadurch ergibt sich eine völlige Bewegungsfreiheit im Bereich der verschiedenen Köpfe. Die Regulierung erfolgt sofort und dank der Studie über die Wärmeableitung, kann die Platte, die den Leuchtenkörper bildet, sorglos berührt werden, um das Lichtbündel auf einfache und intuitive Weise ausrichten zu können. Die Flexibilität garantiert außerdem eine perfekte Interaktion mit jedem Bereich und jeder Architektursprache. Una Pro kann sich verbergen, in der Einbauausführung sogar verschwinden oder auch eine diskrete Präsenz darstellen, welche eher die Bedeutung des abgegebenen Lichts, als die des Geräts hervorhebt.



POWER CIRCUIT

UNA PRO nella sua estrema essenzialità e semplicità condensa una altissima innovazione tecnologica brevettata che consente di raggiungere con pochi led (9, 12 o 16) e quindi con consumi estremamente ridotti le performance luminose di un classico faretto alogeno AR111. Le teste possono montare led di diverse temperature di colore (neutral o warm white) per garantire la qualità della luce adatta ad ogni specifica applicazione composti in set da 9, 12 o 16 elementi per bilanciare al meglio prestazioni e consumi.

Avec son caractère essentiel et sa grande simplicité, UNA PRO concentre une innovation technologique très avancée et brevetée qui permet d'atteindre, avec un nombre limité de leds (9, 12 ou 16) et donc des consommations extrêmement réduites, les performances, en termes d'éclairage, d'un spot halogène AR111 classique.

UNA PRO is a basic and simple product but it sums up highly patented technological principles allowing, with only a few LEDs (9, 12 or 16) thus with very low energy consumption, the illuminating performance of an AR111 halogen spotlight.

The body can hold LEDs of different colours (cool, neutral or warm white) to ensure quality light adaptable to different scenarios; sets of 9, 12 or 16 elements assure a good synergy between performance and consumption.

. UNA PRO compared with Ar111

* data from real surveys

** data declared in producers catalogues

UNA PRO*	LENS	vs	Ar111**
9 LED 9 W	6°	>	35 W 4°
	20°	>	35 W 24°
	38°	≤	50 W 45°
12 LED 12 W	6°	≤	100 W 8°
	20°	=	50 W 24°
	38°	≤	75 W 45°
16 LED 16,5 W	6°	>	100 W 8°
	20°	>	75 W 24°
	38°	=	75 W 45°

. UNA PRO efficiency

** data declared in producers catalogues

UNA PRO	LENS	η lamping Lm/W**	R	η lamp Lm/W
12 LED 12 W	6°	100	83%	83
	20°	100	83%	83
	38°	100	83%	83

9 LED



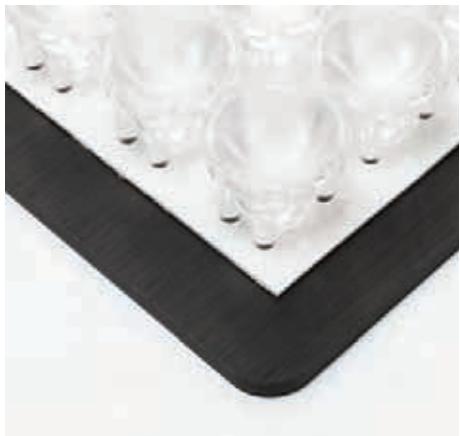
12 LED 12 W



16 LED



OPTICS



OPTICS

Sulle differenti teste è possibile applicare tre diversi set di lenti intercambiabili infinite volte in modo elementare, senza l'ausilio di nessuno strumento, anche ad installazione avvenuta che permettono di ottenere da un unico corpo lampada tre diverse emissioni di 6°, 20°, 38° con una precisione di controllo dell'apertura del fascio luminoso decisamente superiore rispetto ai tradizionali faretti alogenici (margine di scostamento di 1°-1,5°). La sinergia che si crea tra le componenti e la possibilità di combinazione dei diversi elementi permettono di ottenere prestazioni adatte a qualsiasi necessità ed una flessibilità di progettazione dell'atmosfera luminosa variabile anche dopo l'installazione assolutamente nuova.

Sur chaque tête il est possible d'appliquer trois différents sets de lentilles interchangeables à l'infini et de façon très simple, sans qu'aucun outil ne soit nécessaire, même lorsque l'installation est achevée, permettant d'obtenir un corps de lampe unique avec trois émissions différentes, de 6°, 20° et 38°, et un contrôle précis de l'ouverture du faisceau lumineux nettement supérieure par rapport aux spots halogènes traditionnels (marge d'écartement de 1°-1,5°).

La synergie qui se crée entre les différentes pièces et la possibilité d'associer différents éléments permettent d'obtenir des performances appropriées à tous les besoins et une souplesse dans la conception de l'atmosphère lumineuse, qui peut être modifiée même après l'installation à neuf.

Three different lens sets are fitted on these LEDs: they can be easily exchanged every time you wish without the need for any instrument, even once the installation is complete, and they allow to obtain from a single lamp three different 6° 20° 38 ° light emissions, featuring a beam angle control precision absolutely improved compared to the traditional halogen downlights (1°-1,5° deviation).

The synergy existing between the components, the modularity of the various product versions and the possibility to combine the different elements makes it possible to achieve a performance that suits all needs and an absolutely unique luminous atmosphere design flexibility that allows variations even after installation.

Auf jeden Köpfer können drei verschiedene Linsen angebracht, die auf einfache Weise auch nach der Montage ohne irgendwelche Hilfsmittel beliebige Male untereinander ausgetauscht werden können. Somit können mit einem einzigen Leuchtenkörper drei verschiedene Emissionen mit 6°, 20° und 38° und einer bei weitem höheren Öffnungspräzision des Lichtbündels als bei herkömmlichen Halogenstrahlern (Weichungsmarge 1 - 1,5°) erzielt werden.

Durch die zwischen den Elementen stehende Synergie und die Kombinationsmöglichkeit verschiedener Elemente werden Leistungen für jeden Bedarf und eine Entwurfsflexibilität der Lichtumgebung erzielt, die auch nach der völlig neuen Installation variiert ist.

STANDARD

black holders

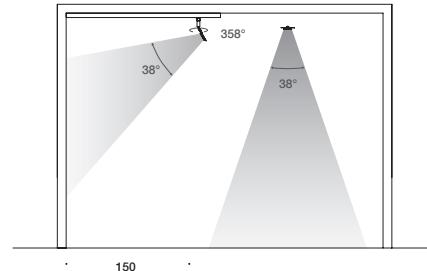
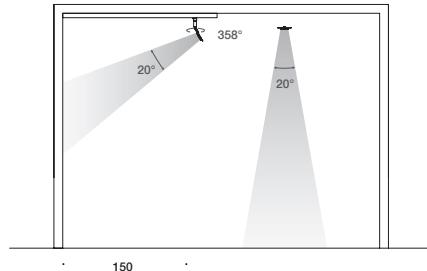
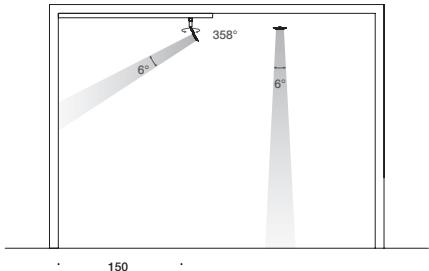


OPTIONAL

transparent / white holders



WIDE



6° narrow



20° medium

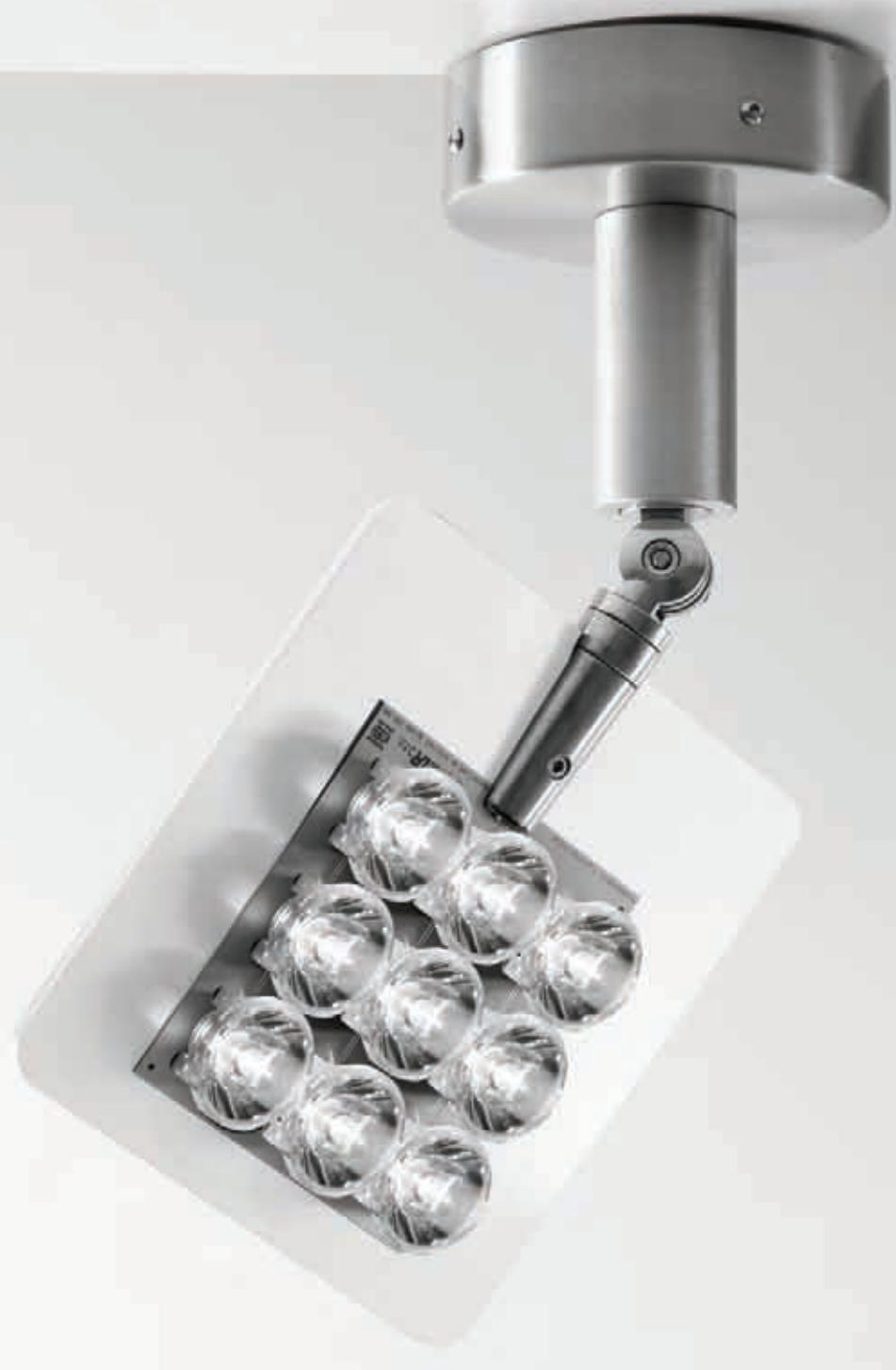


38° wide



UNA PRO parete / soffitto - *Carlotta de Bevilacqua 2010*







Patent Pending N° MI2010A000185

LEED® certification's credits

IP20 F 0,7 kg

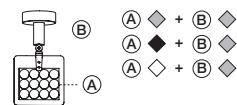
T LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



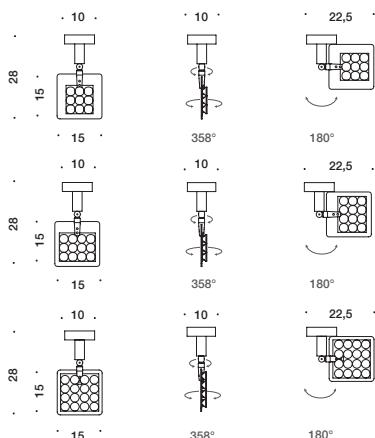
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

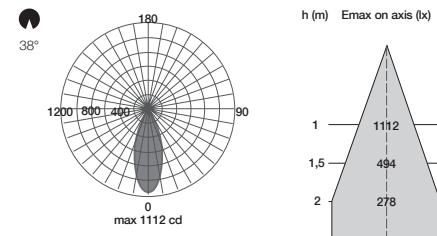
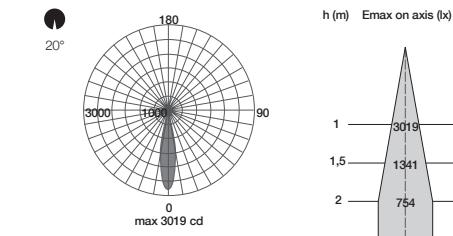
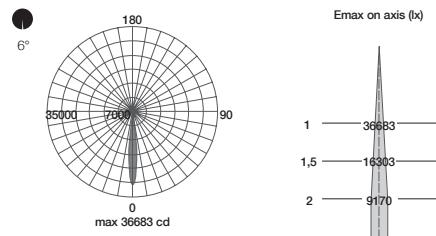
Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



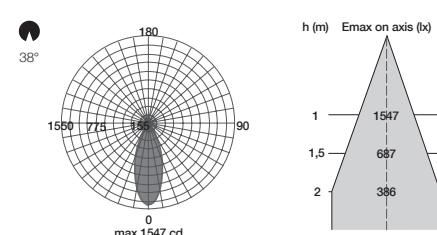
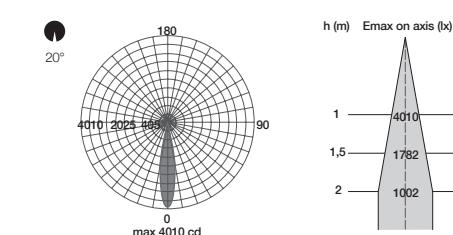
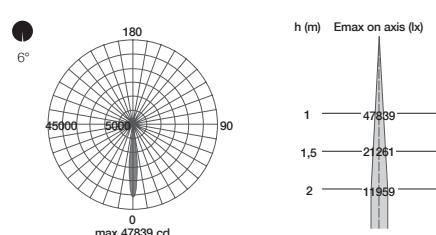
LIGHT SOURCE	LENS	CODE	CODE COLOUR
9 W 9 LED x 1 W 3700K	6°	DD0014B_A1	◆ 00 ◆ 09 ◇ 10
	20°	DD0014B_A2	◆ 00 ◆ 09 ◇ 10
	38°	DD0014B_A3	◆ 00 ◆ 09 ◇ 10
12 W 12 LED x 1 W 3700K	6°	DD0014B_B1	◆ 00 ◆ 09 ◇ 10
	20°	DD0014B_B2	◆ 00 ◆ 09 ◇ 10
	38°	DD0014B_B3	◆ 00 ◆ 09 ◇ 10
16,5 W 16 LED x 1,03 W 3700K	6°	DD0014B_C1	◆ 00 ◆ 09 ◇ 10
	20°	DD0014B_C2	◆ 00 ◆ 09 ◇ 10
	38°	DD0014B_C3	◆ 00 ◆ 09 ◇ 10

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

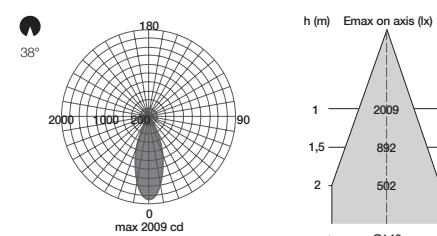
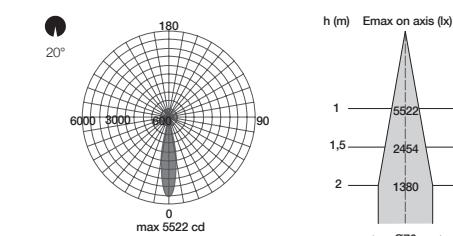
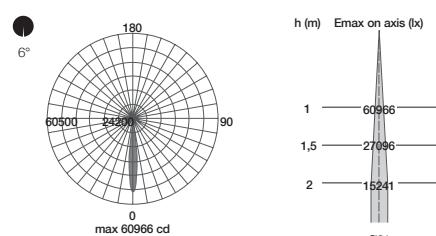
9 LED x 1 W – total 9 W – total flux 747 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) – tolerance of $\pm 7\%$

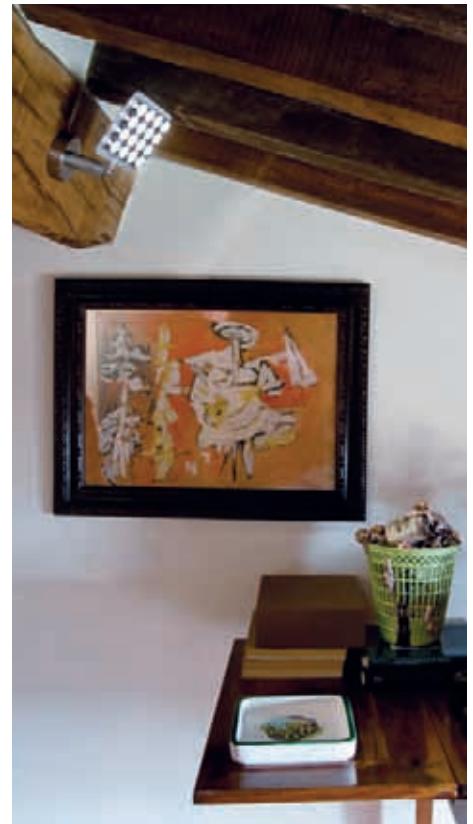
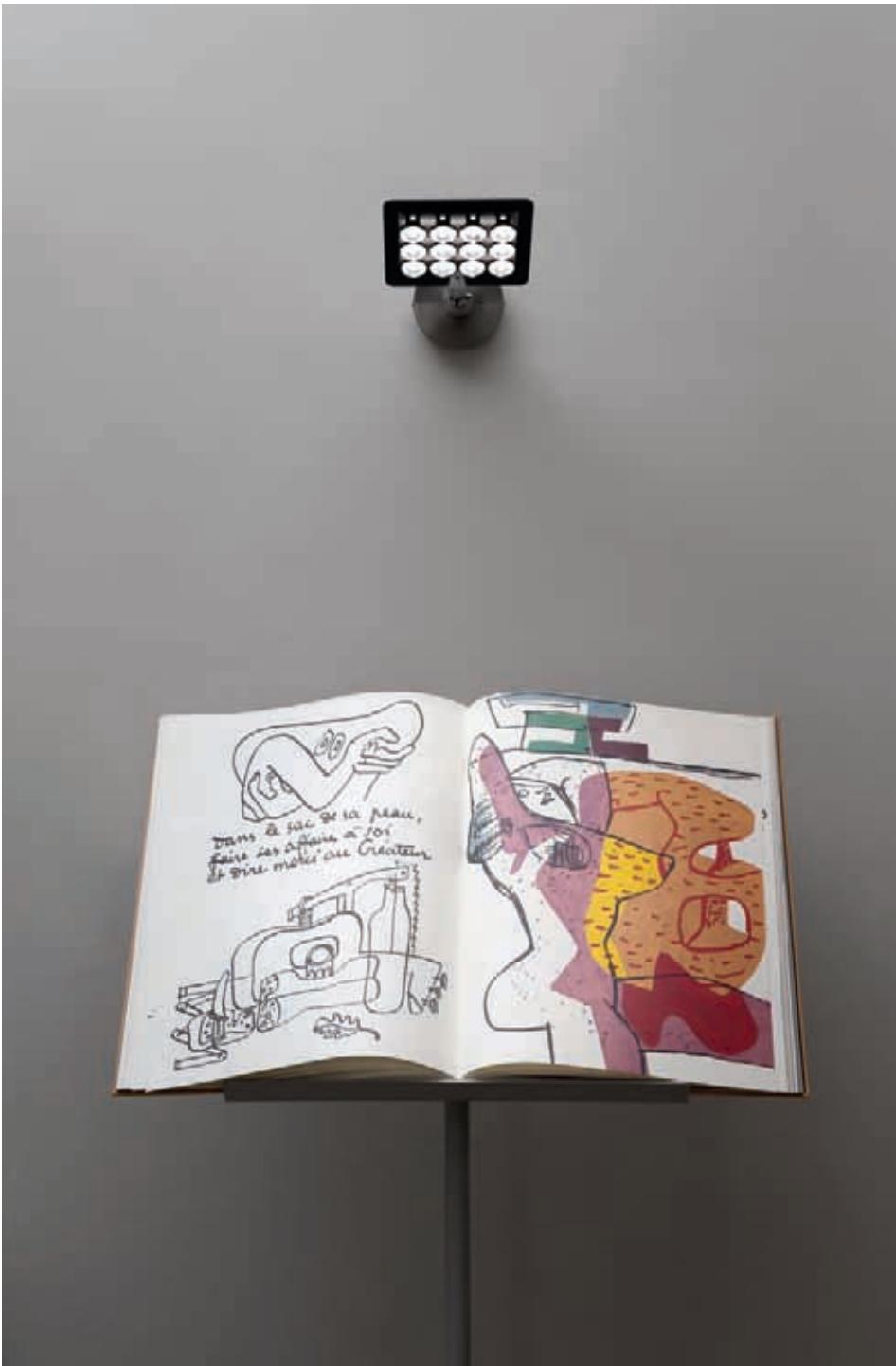


12 LED x 1 W – total 12 W – total flux 996 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) – tolerance of $\pm 7\%$



16 LED x 1,03 W – total 16,5 W – total flux 1328 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) – tolerance of $\pm 7\%$

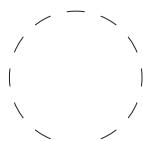




UNA PRO semi-incasso - *Carlotta de Bevilacqua 2010*



ø 81 cm



Installation





Patent Pending N° MI2010A000185
LEED® certification's credits

IP20 0,5 kg

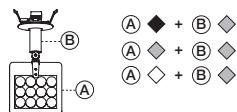
LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



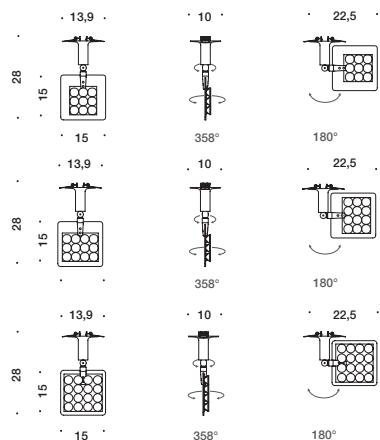
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

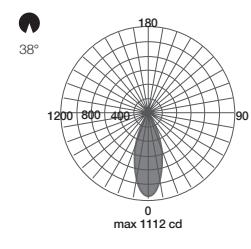
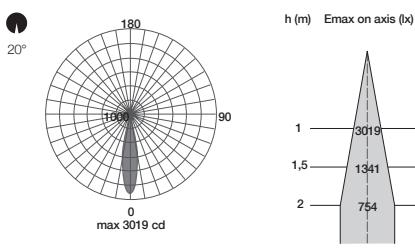
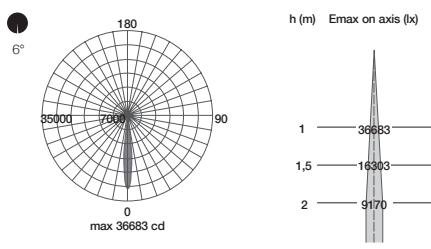
Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



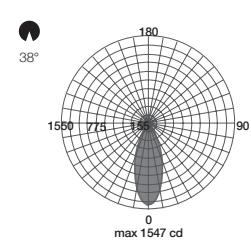
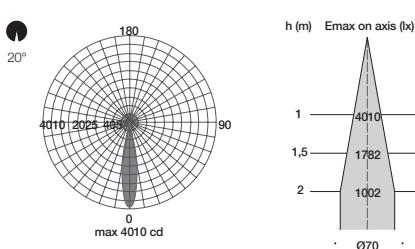
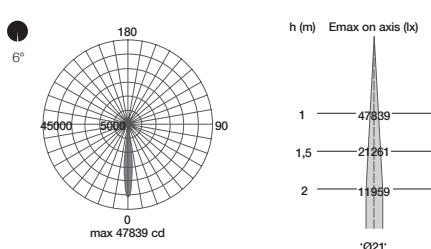
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	38°	DD0014G_A3	◊ 00 ◆ 09 ◇ 10
12 W 12 LED x 1 W 3700K	6°	DD0014G_B1	◊ 00 ◆ 09 ◇ 10
	20°	DD0014G_B2	◊ 00 ◆ 09 ◇ 10
	38°	DD0014G_B3	◊ 00 ◆ 09 ◇ 10
16,5 W 16 LED x 1,03 W 3700K	6°	DD0014G_C1	◊ 00 ◆ 09 ◇ 10
	20°	DD0014G_C2	◊ 00 ◆ 09 ◇ 10
	38°	DD0014G_C3	◊ 00 ◆ 09 ◇ 10

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

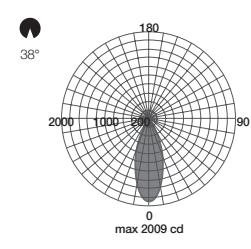
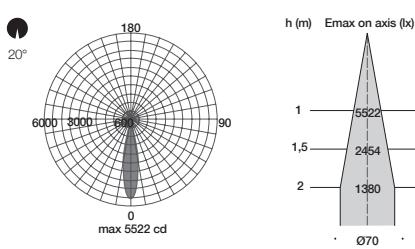
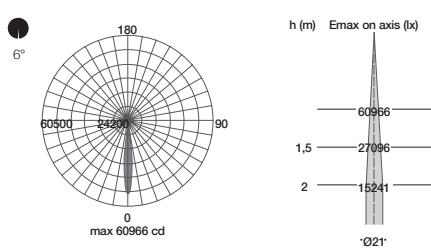
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12 LED x 1 W – total 12 W - total flux 996 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$



16 LED x 1,03 W – total 16,5 W - total flux 1328 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$





Villa Regina Margherita, Bordighera | 2011



Patent Pending N° MI2010A000185

LEED® certification's credits

IP20 F 0,63 kg

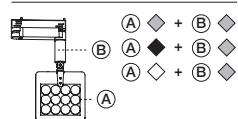
LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



OPTIONAL

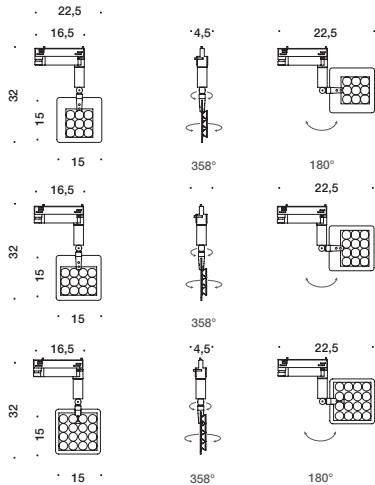
3000 K Ra 85



Multiadaptor 220 - 240 V for the three conductor surface track (L / N / GND)

MATERIALI, MATERIALS, MATERIELS, MATERIALEN

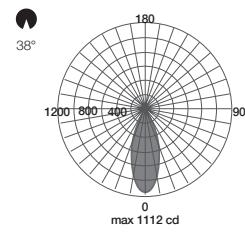
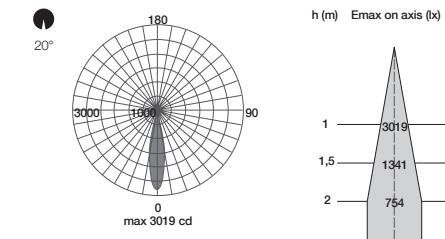
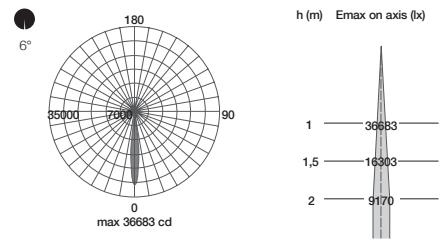
Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



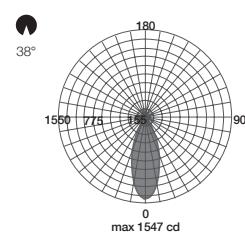
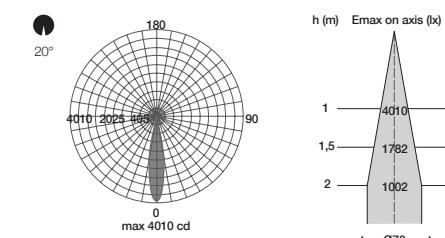
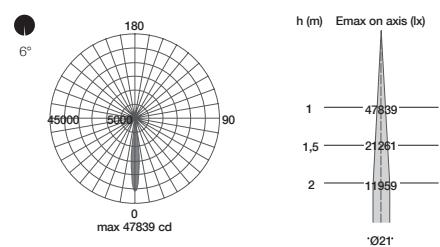
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9 W 9 LED x 1 W 3700K	6°	DD0014D__A1	◆ 00 ◆ 09 ◇ 10
	20°	DD0014D__A2	◆ 00 ◆ 09 ◇ 10
	38°	DD0014D__A3	◆ 00 ◆ 09 ◇ 10
12 W 12 LED x 1 W 3700K	6°	DD0014D__B1	◆ 00 ◆ 09 ◇ 10
	20°	DD0014D__B2	◆ 00 ◆ 09 ◇ 10
	38°	DD0014D__B3	◆ 00 ◆ 09 ◇ 10
16,5 W 16 LED x 1,03 W 3700K	6°	DD0014D__C1	◆ 00 ◆ 09 ◇ 10
	20°	DD0014D__C2	◆ 00 ◆ 09 ◇ 10
	38°	DD0014D__C3	◆ 00 ◆ 09 ◇ 10

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

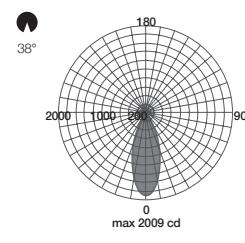
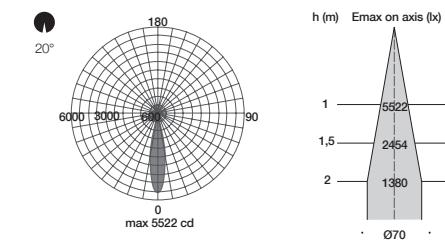
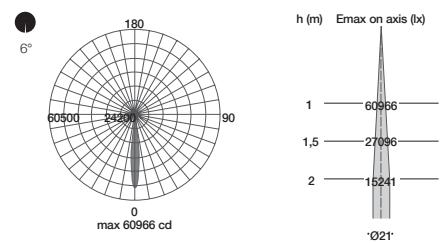
9 LED x 1 W – total 9 W – total flux 747 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) – tolerance of $\pm 7\%$



12 LED x 1 W – total 12 W – total flux 996 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) – tolerance of $\pm 7\%$



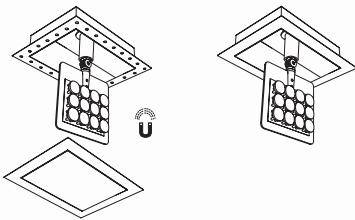
16 LED x 1,03 W – total 16,5 W – total flux 1328 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) – tolerance of $\pm 7\%$





Private gallery | 2011







Patent Pending N° MI2010A000185
LEED® certification's credits

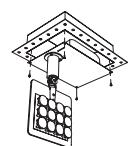
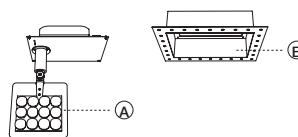
IP20 1,6 kg

T LED life 80.000 hours

STANDARD

3700 K Ra 80

- (A) ◇ + (B) ◆
- (A) ◆ + (B) ◆
- (A) ◇ + (B) ◇



OPTIONAL

For maintenance

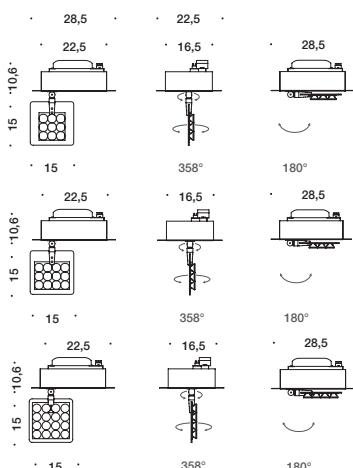
3000 K Ra 85

- (A) ◇ + (B) ◇
- (A) ◆ + (B) ◇
- (A) ◇ + (B) ◇



MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall



LIGHT SOURCE

9 W
9 LED x 1 W 3700K

6°

DD0014C_A1

◇ 00 ◆ 09 ◇ 10

20°

DD0014C_A2

◇ 00 ◆ 09 ◇ 10

38°

DD0014C_A3

◇ 00 ◆ 09 ◇ 10

12 W
12 LED x 1 W 3700K

6°

DD0014C_B1

◇ 00 ◆ 09 ◇ 10

20°

DD0014C_B2

◇ 00 ◆ 09 ◇ 10

38°

DD0014C_B3

◇ 00 ◆ 09 ◇ 10

16,5 W
16 LED x 1,03 W 3700K

6°

DD0014C_C1

◇ 00 ◆ 09 ◇ 10

20°

DD0014C_C2

◇ 00 ◆ 09 ◇ 10

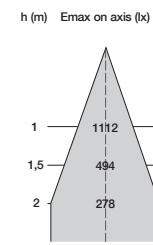
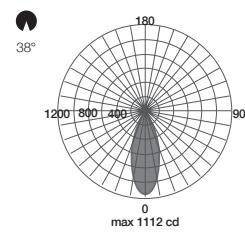
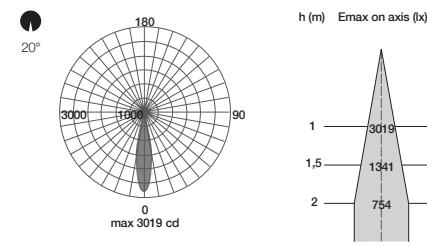
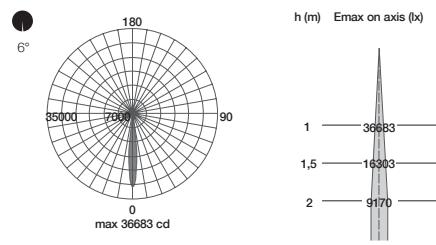
38°

DD0014C_C3

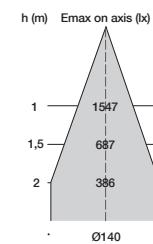
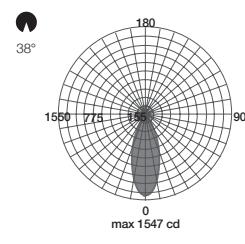
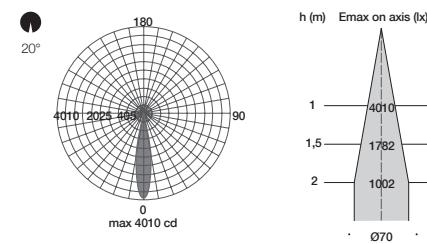
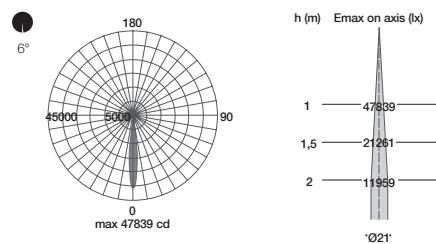
◇ 00 ◆ 09 ◇ 10

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K, black holders and black box

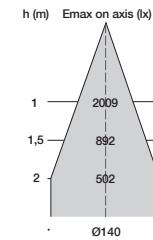
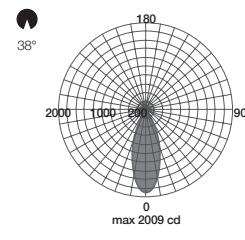
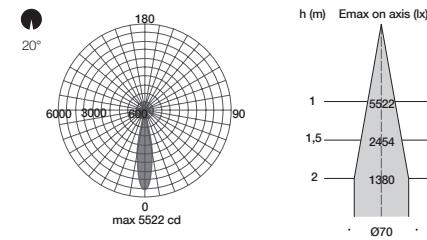
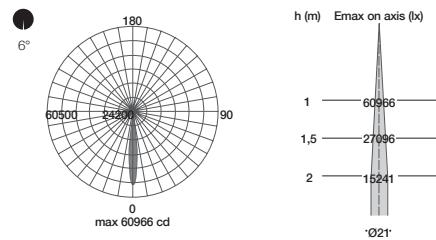
9 LED x 1 W – total 9 W - total flux 747 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$



12 LED x 1 W – total 12 W - total flux 996 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$



16 LED x 1,03 W – total 16,5 W - total flux 1328 Lm - 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$





Installation

Academia L'OREAL, Madrid | 2010





. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP20 4,3 kg

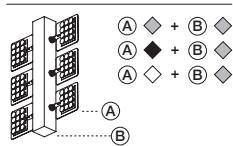
LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



OPTIONAL

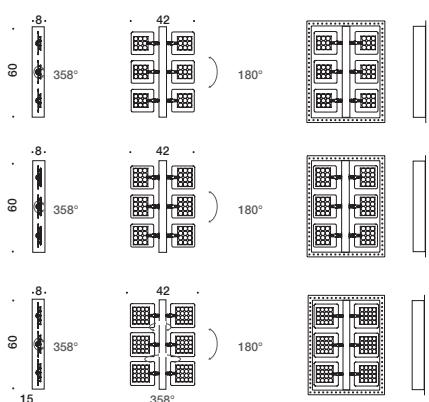
3000 K Ra 85



MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio - circuito stampato,aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat

STANDARD



OPTIONAL

LIGHT SOURCE

9 W
9 LED x 1 W 3700K

LENS

6°

DD0014F_A1

00 09 10

20°

DD0014F_A2

00 09 10

38°

DD0014F_A3

00 09 10

12 W
12 LED x 1 W 3700K

6°

DD0014F_B1

00 09 10

20°

DD0014F_B2

00 09 10

38°

DD0014F_B3

00 09 10

16,5 W
16 LED x 1,03 W 3700K

6°

DD0014F_C1

00 09 10

20°

DD0014F_C2

00 09 10

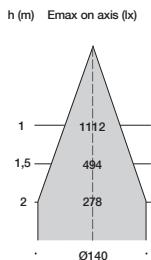
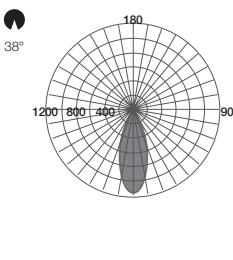
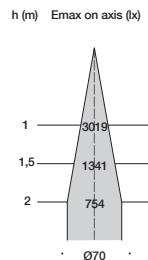
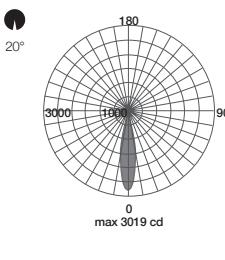
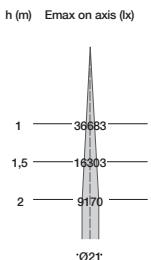
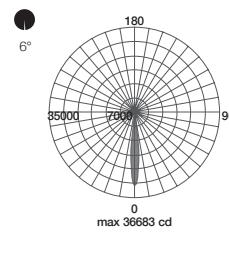
38°

DD0014F_C3

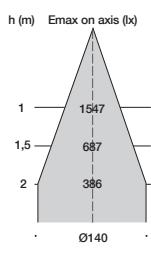
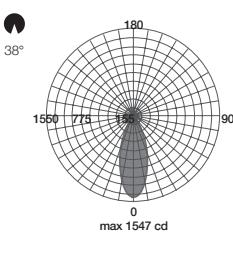
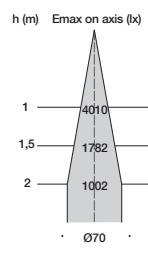
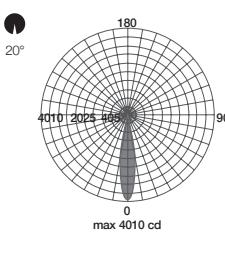
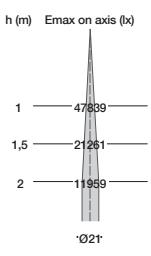
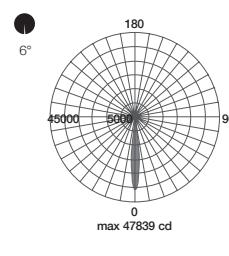
00 09 10

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

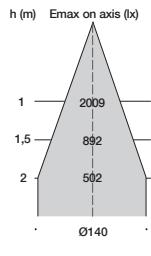
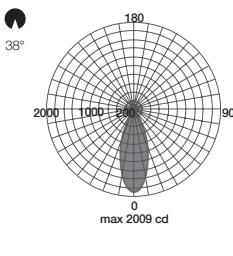
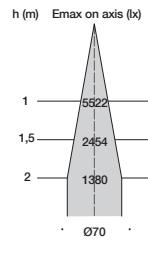
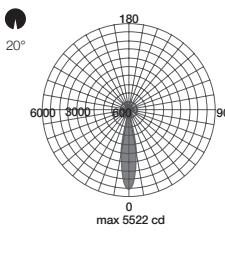
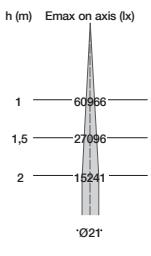
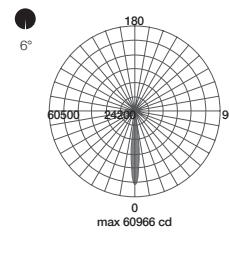
9 LED x 1 W - total 9 W - total flux 747 Lm - 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$



12 LED x 1 W - total 12 W - total flux 996 Lm - 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$



16 LED x 1,03 W - total 16,5 W - total flux 1328 Lm - 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$



NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders





. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP65 0,9 kg

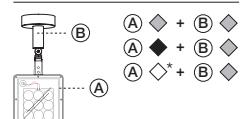
LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



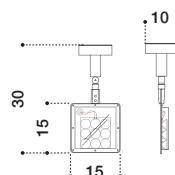
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

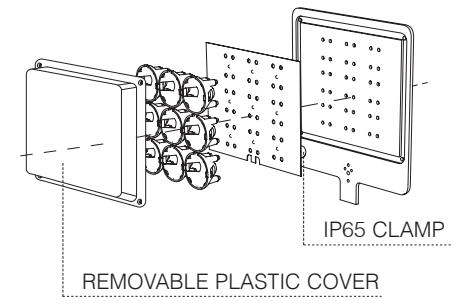
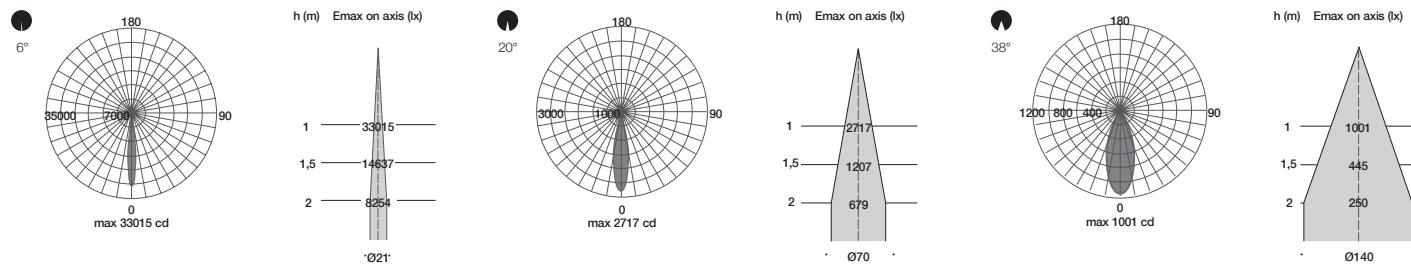
Alluminio - circuito stampato - plastica, aluminium - printed circuit board - plastic, aluminium - circuit imprimé - plastique, Aluminium - Leiterplat - Plastik



LIGHT SOURCE	LENS	CODE	CODE COLOUR
9 W 9 LED x 1 W 3700K	6°	DD0014B_A1IP	◊ 00 ◆ 09 ◇ 10
	20°	DD0014B_A2IP	◊ 00 ◆ 09 ◇ 10
	38°	DD0014B_A3IP	◊ 00 ◆ 09 ◇ 10

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

9 LED x 1 W – Total 9 w –total flux 672 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of ± 7%







Patent Pending N° MI2010A000185

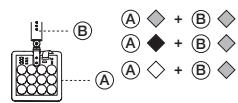
Patent Pending N° MI2010A000657

LEED® certification's credits

IP20 F □* / □

① Remote control* LED life 80,000 hours

COLOUR



STANDARD

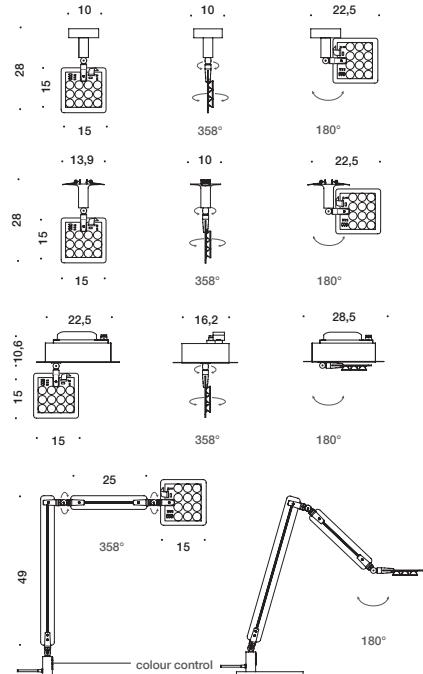


OPTIONAL



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

Alluminio - circuito stampato, aluminium - printed circuit board, aluminium - circuit imprimé, Aluminium - Leiterplat



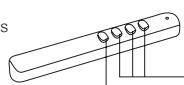
LIGHT SOURCE	LENS	COLOUR	CODE	+	RGB	/	RWB
12 LED x 1 W	6°	ALUMINIUM	DD0014B00B1_				X
		BLACK	DD0014B09B1_	R	X		
parete / plafone*	20°	ALUMINIUM	DD0014B00B2_	R	X		
		BLACK	DD0014B09B2_	R	X		
	38°	ALUMINIUM	DD0014B00B3_	R	X		
		BLACK	DD0014B09B3_	R	X		
semi-incasso*	6°	ALUMINIUM	DD0014G00B1_	R	X		
		BLACK	DD0014G09B1_	R	X		
12 LED x 1 W	20°	ALUMINIUM	DD0014G00B2_	R	X		
		BLACK	DD0014G09B2_	R	X		
	38°	ALUMINIUM	DD0014G00B3_	R	X		
		BLACK	DD0014G09B3_	R	X		
incasso*	6°	ALUMINIUM	DD0014C00C1_	R	X		
		BLACK	DD0014C09B1_	R	X		
12 LED x 1 W	20°	ALUMINIUM	DD0014C00B2_	R	X		
		BLACK	DD0014C09B2_	R	X		
	38°	ALUMINIUM	DD0014C00B3_	R	X		
		BLACK	DD0014C09B3_	R	X		
tavolo	6°	ALUMINIUM	DD0014R00B1_	R	X		
		BLACK	DD0014R09B1_	R	X		
	20°	ALUMINIUM	DD0014R00B2_	R	X		
		BLACK	DD0014R09B2_	R	X		
	38°	ALUMINIUM	DD0014R00B3_	R	X		
		BLACK	DD0014R09B3_	R	X		

NOTE: the codes refer to the standard version equipped by black holders

EASY

IR remote control

separate management of the three channels



IR remote control (not included, to be ordered separately)

CODE

DDRGB001

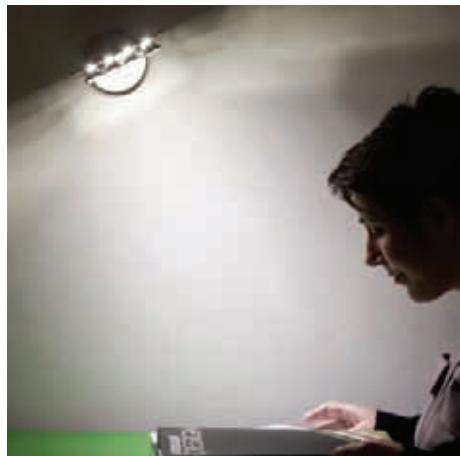
ADVANCED

Dali or DMX

RWB: white tunable system with preset color temperatures from 2400 to 10000 K or separate management of the three channels.

RGB: System with preset color scenery or separate management of the three channels

RWB white



RWB red



RWB blu









OPTICS - LENSES



OPTICS - HOLDERS



CIRCUIT



DOUBLE - SIDED TAPE



PLATE



JOINT



SMD
SMD IP44

. 4 LED x 1,5 W / 2 x 4 LED x 1,5 W
. LENS 6° / 20° / 38°

pag. 58-60

IP20 4 LED 0,5 kg / 2 x 4 LED 0,9 kg
IP44

STANDARD

3700 K Ra 80



OPTIONAL

3000 K Ra 85



Incasso
Incasso IP44

. 4 LED x 1,5 W / 2 x 4 LED x 1,5 W / 3 x 4 LED x 1,5 W / 4 x 4 LED x 1,5 W
. LENS 6° / 20° / 38°

pag. 62-65

IP20 4 LED 0,35 kg / 2 x 4 LED 0,9 kg
IP44 3 x 4 LED 1,4 kg / 4 x 4 LED 1,6 kg

STANDARD

3700 K Ra 80



+

+

OPTIONAL

3000 K Ra 85



+

+

RGB incasso
RWB incasso
RGB incasso IP44
RWB incasso IP44

. 4 LED x 1,5 W / 2 x 4 LED x 1,5 W / 3 x 4 LED x 1,5 W / 4 x 4 LED x 1,5 W
. LENS 6° / 20° / 38°

pag. 68-71

IP20 4 LED 0,35 kg / 2 x 4 LED 0,9 kg
IP65 3 x 4 LED 1,4 kg / 4 x 4 LED 1,6 kg

STANDARD

3700 K Ra 80



+

+

OPTIONAL

3000 K Ra 85



+

+

track

. 6 x 4 LED x 1,5 W
. LENS 6° / 20° / 38°

pag. 72

IP20 10 Kg

STANDARD

3700 K Ra 80



+ +

OPTIONAL

3000 K Ra 85



+ + Ral colours

UNA PRO 75

UNA PRO 75 è l'evoluzione di Una Pro progettata per costituire una valida alternativa agli apparecchi che impiegano le sorgenti alogene dicroiche.

Come per Una Pro i consumi sono ridotti al minimo mentre le qualità delle performance di luce sono massimizzate da una flessibilità assolutamente nuova. La combinazione delle diverse versioni apre infinite possibilità di modellare la luce con soluzioni che si integrano perfettamente nell'architettura e ne seguono l'evoluzione funzionale grazie alla possibilità di riconfigurare le performance nel tempo.

UNA PRO 75 représente l'évolution d'Una Pro, conçue en vue de proposer une alternative valable aux appareils utilisant des sources halogènes dichroïques.

Comme pour Una Pro, les consommations sont réduites au minimum tandis que les qualités de la performance lumineuse sont exaltées par une souplesse inouïe. L'association des différentes versions offre d'infinites possibilités de modeler la lumière, avec des solutions qui se fondent parfaitement dans l'architecture et en suivent l'évolution fonctionnelle grâce à la possibilité de revoir les performances dans le temps.

UNA PRO 75 is the evolution of Una Pro, designed to represent a valid alternative to equipment using dichroic halogen light sources.

Like in Una Pro, consumption is reduced to a minimum whereas the light output performance quality is maximized by an entirely new flexibility. The combination of the different versions opens endless possibilities to model light with solutions capable of perfectly combining with the architecture and of following its functional evolution thanks to the ability to shape their performance over time.

UNA PRO 75 ist die Evolution von Una Pro. Sie wurde entworfen, um eine gute Alternative zu Geräten zu schaffen, die mit zweifarbigem Halogenlichtquellen funktionieren.

Durch eine völlig neue Flexibilität kann man wie bei Una Pro die bestmögliche Lichtleistung bei Mindestverbrauch erzielen. Die Kombination der verschiedenen Ausführungen eröffnet unendliche Möglichkeiten, das Licht mit Lösungen zu modulieren, das sich perfekt in die Architektur eingliedert. Die Neugestaltung der Leistungen führt im Laufe der Zeit zur funktionellen Evolution.

JOINT

Lo snodo consente una rotazione a 360° e una inclinazione di 30° in qualsiasi direzione, un movimento adatto a raggiungere i diversi punti che possono necessitare di accenti di luce su superfici orizzontali o verticali, o semplicemente a distribuire nel modo più uniforme l'emissione nello spazio.

Nelle composizioni multiple ogni testa da 4 led è gestibile singolarmente così che ogni fascio di luce possa essere orientato indipendentemente dagli altri per sottolineare diversi punti nello spazio con l'installazione di un unico apparecchio.

L'articulation permet une rotation à 360° et une inclinaison de 30° dans toutes les directions, un mouvement permettant de rejoindre les différents points pouvant nécessiter une concentration de la lumière sur des surfaces horizontales ou verticales ou tout simplement de distribuer l'émission dans l'espace de la manière la plus uniforme possible.

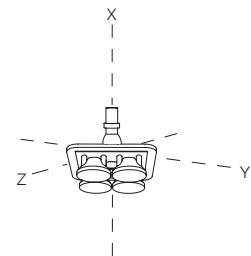
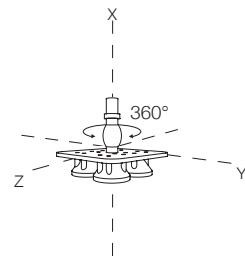
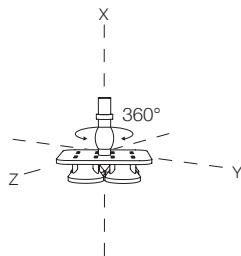
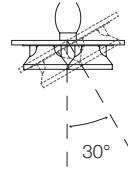
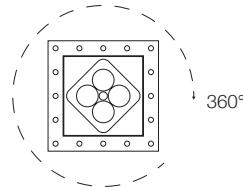
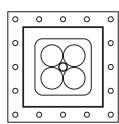
Dans les compositions multiples, chaque tête de 4 leds peut être gérée individuellement, si bien que chaque faisceau de lumière peut être orienté indépendamment des autres pour souligner différents points dans l'espace, en installant un seul appareil.

Lamp joint allows a 360° rotation and 30° inclination in any direction, thus managing to reach any point that may require lighting on horizontal or vertical surfaces, or simply to distribute light emission evenly in the room.

In case of multiple heads, each 4-LED head can be controlled individually. Therefore, every light beam can be oriented independently from the others, highlighting several points with a single lamp.

Das Gelenk ermöglicht eine 360°-Drehung und 30°-Neigung in alle Richtungen. Durch diese Bewegung kann man verschiedene Punkte erreichen, die Lichtakzente auf horizontalen oder vertikalen Flächen benötigen, oder aber einfach nur die Lichtemission im Raum gleichmäßig verteilen.

Bei Mehrfach-Zusammensetzungen kann jeder Kopf mit 4 LEDs einzeln gesteuert werden, damit jedes Lichtbündel einer einzigen Leuchte unabhängig auf verschiedene Punkte im Raum ausgerichtet werden kann.



POWER CIRCUIT

Le diverse versioni si declinano in elementi modulari che si compongono di 1, 2, 3 o 4 teste così da calibrare consumi ed emissioni a seconda delle esigenze di luce o dei vincoli architettonici, aprendo la possibilità di comporre scenari di luce flessibili e perfettamente integrati nello spazio.

L'elemento base è una testa in cui la tecnologia brevettata di dissipazione del calore consente di ridurre al minimo le dimensioni della piastra che monta 4 led garantendo in soli 7,5 cm e con un consumo di soli 6 W prestazioni equivalenti, se non superiori, ad un classico faretto alogeno da 50 W.

Les différentes versions se déclinent en éléments modulaires constitués de 1, 2, 3 ou 4 têtes de façon à équilibrer les consommations et les émissions en fonction des besoins en lumière ou des contraintes architecturales, offrant la possibilité de composer des jeux de lumière souples et parfaitement intégrés dans l'espace.

L'élément de base est une tête dans laquelle la technologie brevetée de dissipation thermique permet de réduire au minimum les dimensions de la plaque, sur laquelle sont montées 4 leds, assurant, en seulement 7,5 cm et avec une consommation de seulement 6 W, des performances équivalentes, voire même supérieures, à celles d'un spot halogène classique de 50 W.

The different versions are made of modular elements including 1, 2, 3 or 4 heads. Therefore, it is possible to adjust consumption and emissions to the lighting requirements or architectural limits, making it possible to create flexible light scenarios perfectly integrated in the environment.

The basic element is the head, which features a patented heat loss technology allowing to reduce to the minimum the size of the plate where the 4 LEDs are fitted, thus guaranteeing a performance equal to - or even better than - the traditional 50 W halogen downlights in only 7,5 cm and with a consumption of only 6 W.

Die verschiedenen Ausführungen gliedern sich in Modulelemente mit 1, 2, 3 oder 4 Köpfen, wodurch Verbrauch und Emissionen nach den Lichtbedürfnissen und architektonischen Einschränkungen geregelt werden kann. Außerdem eröffnet sich dadurch die Möglichkeit, flexible und perfekt in den Raum integrierte Lichtszenarien zu schaffen.

Das Grundelement ist ein Kopf. Durch die patentierte Technologie zur Wärmeableitung können die Mindestmaße der Platte, auf denen 4 LEDs montiert sind, reduziert werden. Dies garantiert nur 7,5 cm und einen Verbrauch von nur 6 W bei gleichen oder höheren Leistungen im Vergleich zu klassischen 50 W Halogenstrahlern.

. UNA PRO 75 compared with Mr16*

* data from real surveys

** data declared in producers catalogues

UNA PRO 75*

LENS

vs

Mr16**

4 LED x 1,5 W

6°

>

50 W 10°

20°

<

20 W 24° ES

38°

=

20 W 36°

. UNA PRO 75 efficiency

** data declared in producers catalogues

UNA PRO 75

LENS

η lamping Lm/W**

R

η lamp Lm/W

4 LED 6 W

6°

100

83%

83

20°

100

83%

83

38°

100

83%

83

UNA PRO 75 incasso

1 x 4 LED 6 W – 498 Lm

2 x 4 LED 12 W – 996 Lm

3 x 4 LED 18 W – 1494 Lm

4 x 4 LED 24 W – 1992 Lm

UNA PRO 75 SMD

1 x 4 LED 6 W – 498 Lm

2 x 4 LED 12 W – 996 Lm

3 x 4 LED 18 W – 1494 Lm

4 x 4 LED 24 W – 1992 Lm

UNA PRO 75 track

6 **1 x 4 LED 6 W – 498 Lm 6 x 4 LED 36 W(6 x 6 W) – 2988 Lm**

n **1 x 4 LED 6 W – 498 Lm n x 4 LED n x 6 W – n x 498 Lm**



OPTICS

UNA PRO 75 può montare led di diverse temperature di colore (neutral o warm white) per garantire la qualità della luce adatta ad ogni specifica applicazione, su questi si applicano tre diversi set di lenti intercambiabili infinite volte in modo elementare, senza l'ausilio di nessuno strumento, anche ad installazione avvenuta che permettono di ottenere da un unico corpo lampada tre diverse emissioni di 6°, 20°, 38° con una precisione di controllo dell'apertura del fascio luminoso decisamente superiore rispetto ai tradizionali faretti alogeni (margine di scostamento di 1°-1,5°).

UNA PRO 75 peut être équipée de leds de différentes températures de couleur (neutre ou warm white) assurant une qualité de lumière parfaite pour toutes les applications spécifiques, sur celles-ci, il est possible d'appliquer trois différents sets de lentilles interchangeables à l'infini et de façon très simple, sans qu'aucun outil ne soit nécessaire, même lorsque l'installation est achevée, permettant d'obtenir un corps de lampe unique avec trois émissions différentes, de 6°, 20° et 38°, et un contrôle précis de l'ouverture du faisceau lumineux nettement supérieure par rapport aux spots halogènes traditionnels (marge d'écartement de 1°-1,5°).

UNA PRO 75 can feature LEDs with various colour temperatures (neutral or warm white) so to guarantee the perfect lighting for each specific application. Three different lens sets are fitted on these LEDs: they can be easily exchanged every time you wish without the need for any instrument, even once the installation is complete, and they allow to obtain from a single lamp three different 6° 20° 38° light emissions, featuring a beam angle control precision absolutely improved compared to the traditional halogen downlights (1°-1,5° deviation).

UNA PRO 75 kann LEDs mit unterschiedlichen Farbtemperaturen montieren (neutral oder warmes Weiß). Um die korrekte Lichtqualität für jede spezifische Anwendung gewährleisten zu können, werden drei verschiedene Linsensets verwendet, die auch nach der Installation auf einfache Weise ohne Hilfsmittel beliebig oft untereinander vertauscht werden können, wodurch man mit einem einzigen Lampenkörper drei verschiedene Emissionen mit 6°, 20° und 38° und einer präzisen Öffnungskontrolle des Lichtbündels weit über herkömmliche Halogenstrahler (Abweichungsmarge 1°-1,5°) erhält.

STANDARD

black holders

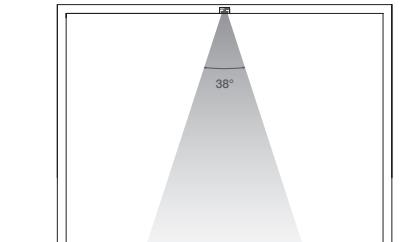
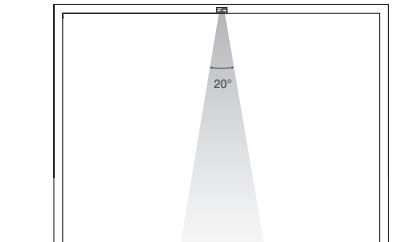
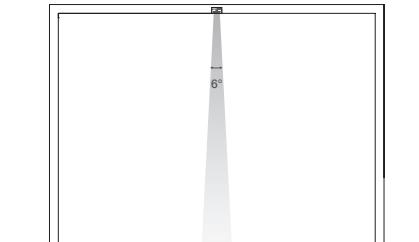


OPTIONAL

transparent / white holders



WIDE



6° narrow

20° medium

38° wide









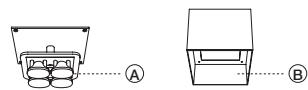
IP20

. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP20 / IP44 F 4 LED 0,5 kg / 2 x 4 LED 0,9 kg

T LED life 80.000 hours



STANDARD

3700 K Ra 80

(A) ◇ + (B) ◇

(A) ◇ + (B) ◇

(A) ◇ + (B) ◇



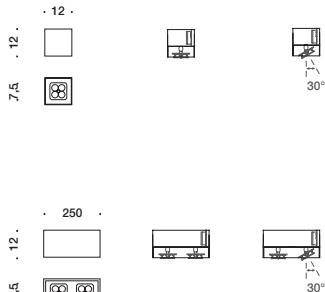
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

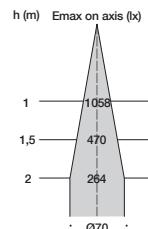
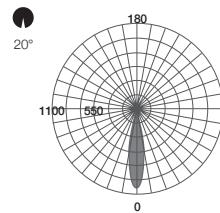
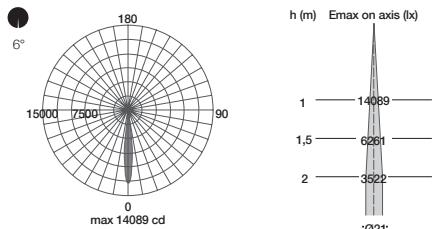
Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplatte



LIGHT SOURCE	LENS	COLOUR	CODE IP20	IP65
4 LED x 1,5 W 3700K 6 W	6°	(A) + (B) ALUMINIUM	DD0014I00D1S	+ IP
	6°	(A) + (B) BLACK	DD0014I09D1S	+ IP
	6°	(A) + (B) WHITE	DD0014I10D1S	+ IP
	20°	(A) + (B) ALUMINIUM	DD0014I00D2S	+ IP
	20°	(A) + (B) BLACK	DD0014I09D2S	+ IP
	20°	(A) + (B) WHITE	DD0014I10D2S	+ IP
2 x 4 LED x 1,5 W 3700K 12 W	38°	(A) + (B) ALUMINIUM	DD0014I00D3S	+ IP
	38°	(A) + (B) BLACK	DD0014I09D3S	+ IP
	38°	(A) + (B) WHITE	DD0014I10D3S	+ IP
	6°	(A) + (B) ALUMINIUM	DD0014L00D1S	+ IP
	6°	(A) + (B) BLACK	DD0014L09D1S	+ IP
	6°	(A) + (B) WHITE	DD0014L10D1S	+ IP
20°	6°	(A) + (B) ALUMINIUM	DD0014L00D2S	+ IP
	6°	(A) + (B) BLACK	DD0014L09D2S	+ IP
	6°	(A) + (B) WHITE	DD0014L10D2S	+ IP
	20°	(A) + (B) ALUMINIUM	DD0014L00D3S	+ IP
	20°	(A) + (B) BLACK	DD0014L09D3S	+ IP
	20°	(A) + (B) WHITE	DD0014L10D3S	+ IP

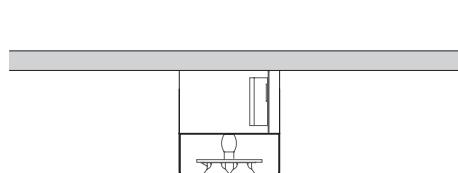
NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

4 LED x 1,5 W – total 6 W – total flux 498 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - (IP65 -10% flux) - tolerance of ± 7%



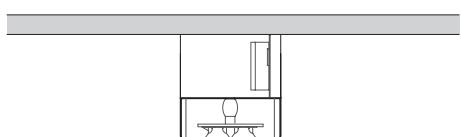
IP65

IP 20



IP 44

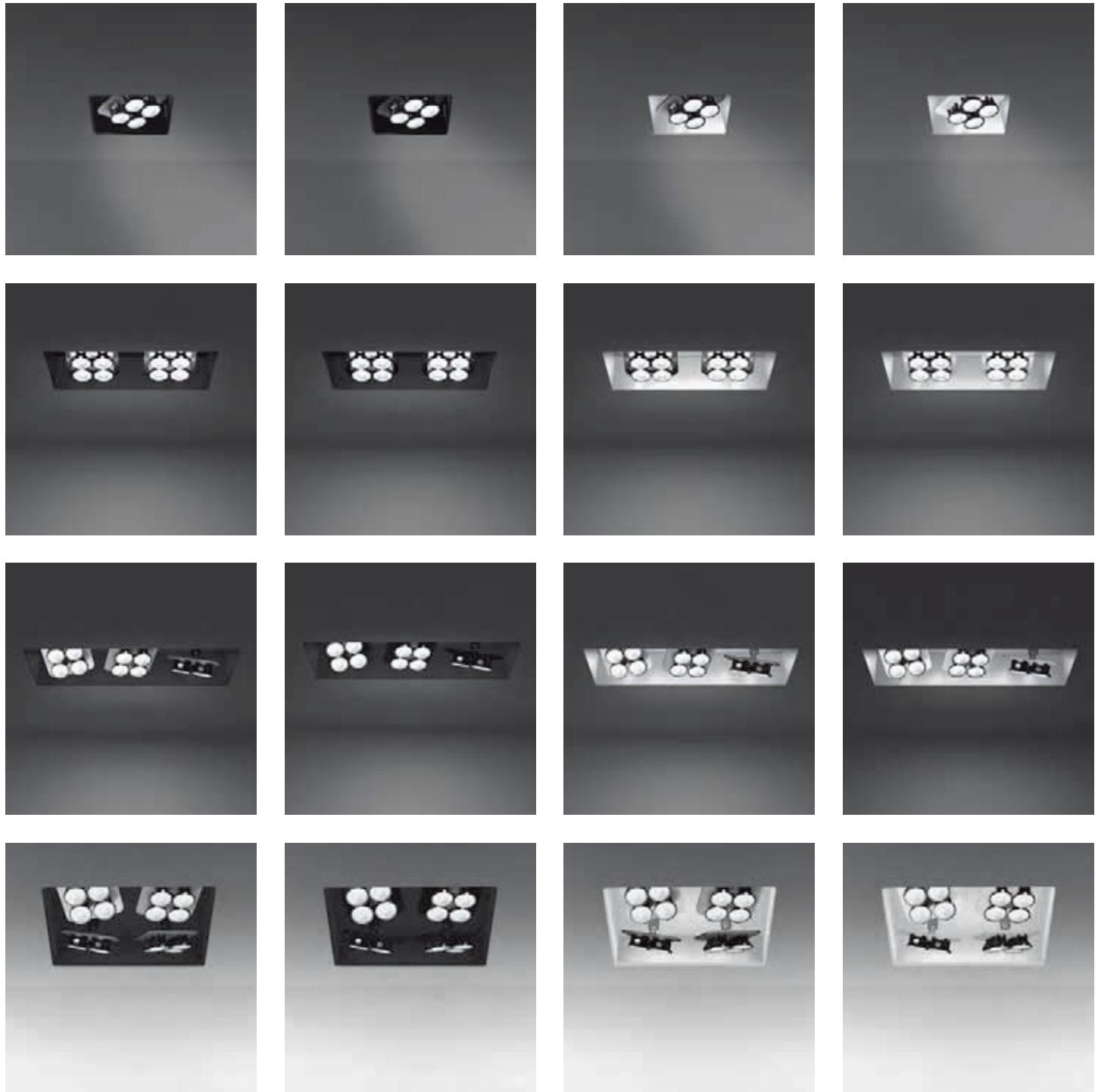
With plastic cover





Showroom | 2011

Office | 2011







IP20

Patent Pending N° MI2010A000185

LEED® certification's credits

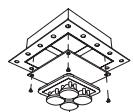
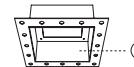
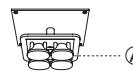
IP20 / IP65 4 LED 0,35 kg / 2 x 4 LED 0,9 kg
3 x 4 LED 1,4 kg / 4 x 4 LED 1,6 kg

LED life 80.000 hours

STANDARD

3700 K Ra 80

- (A) ◇ + (B) ◆
- (A) ◆ + (B) ◇



For maintenance

OPTIONAL

3000 K Ra 85

- (A) ◇ + (B) ◇
- (A) ◆ + (B) ◇
- (A) ◇ + (B) ◆



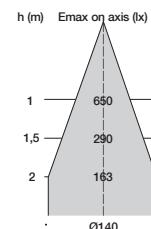
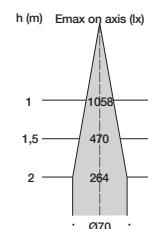
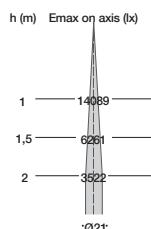
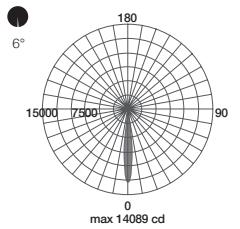
MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall

LIGHT SOURCE	LENS	COLOUR	CODE	IP65
4 LED x 1,5 W 3700K 6 W	6°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014I00D1 DD0014I09D1	+ IP
	20°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014I00D2 DD0014I09D2	+ IP
	38°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014I00D3 DD0014I09D3	+ IP
2 x 4 LED x 1,5 W 3700K	6°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014L00D1 DD0014L09D1	+ IP
	20°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014L00D2 DD0014L09D2	+ IP
	38°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014L00D3 DD0014L09D3	+ IP
3 x 4 LED x 1,5 W 3700K	6°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014M00D1 DD0014M09D1	+ IP
	20°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014M00D2 DD0014M09D2	+ IP
	38°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014M00D3 DD0014M09D3	+ IP
4 x 4 LED x 1,5 W 3700K	6°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014N00D1 DD0014N09D1	+ IP
	20°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014N00D2 DD0014N09D2	+ IP
	38°	(A) ALUMINIUM + (B) BLACK (A) BLACK + (B) BLACK	DD0014N00D3 DD0014N09D3	+ IP

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

4 LED x 1,5 W – total 6 W – total flux 498 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - (IP65 -10% flux) - tolerance of ± 7%



4 LED x 1,5 W

Installation



2 x 4 LED x 1,5 W

Installation



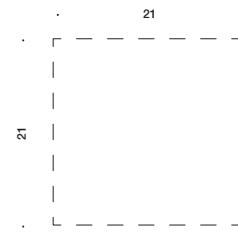
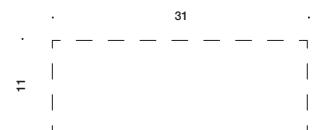
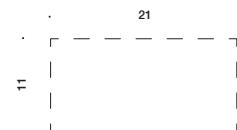
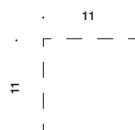
3 x 4 LED x 1,5 W

Installation

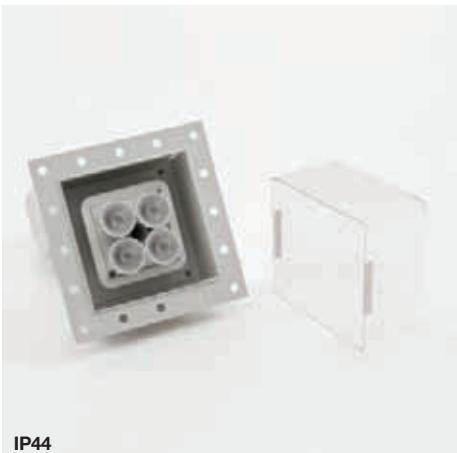


4 x 4 LED x 1,5 W

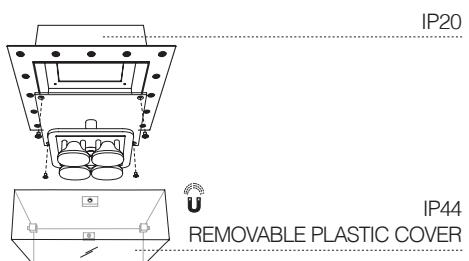
Installation



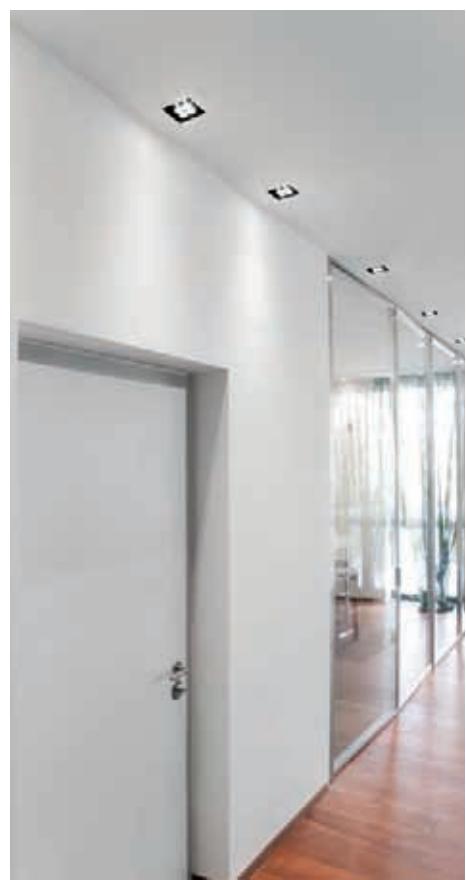
UNA PRO 75 IP44



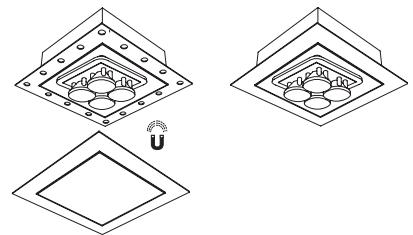
IP44



Design Lab, Milano | 2011



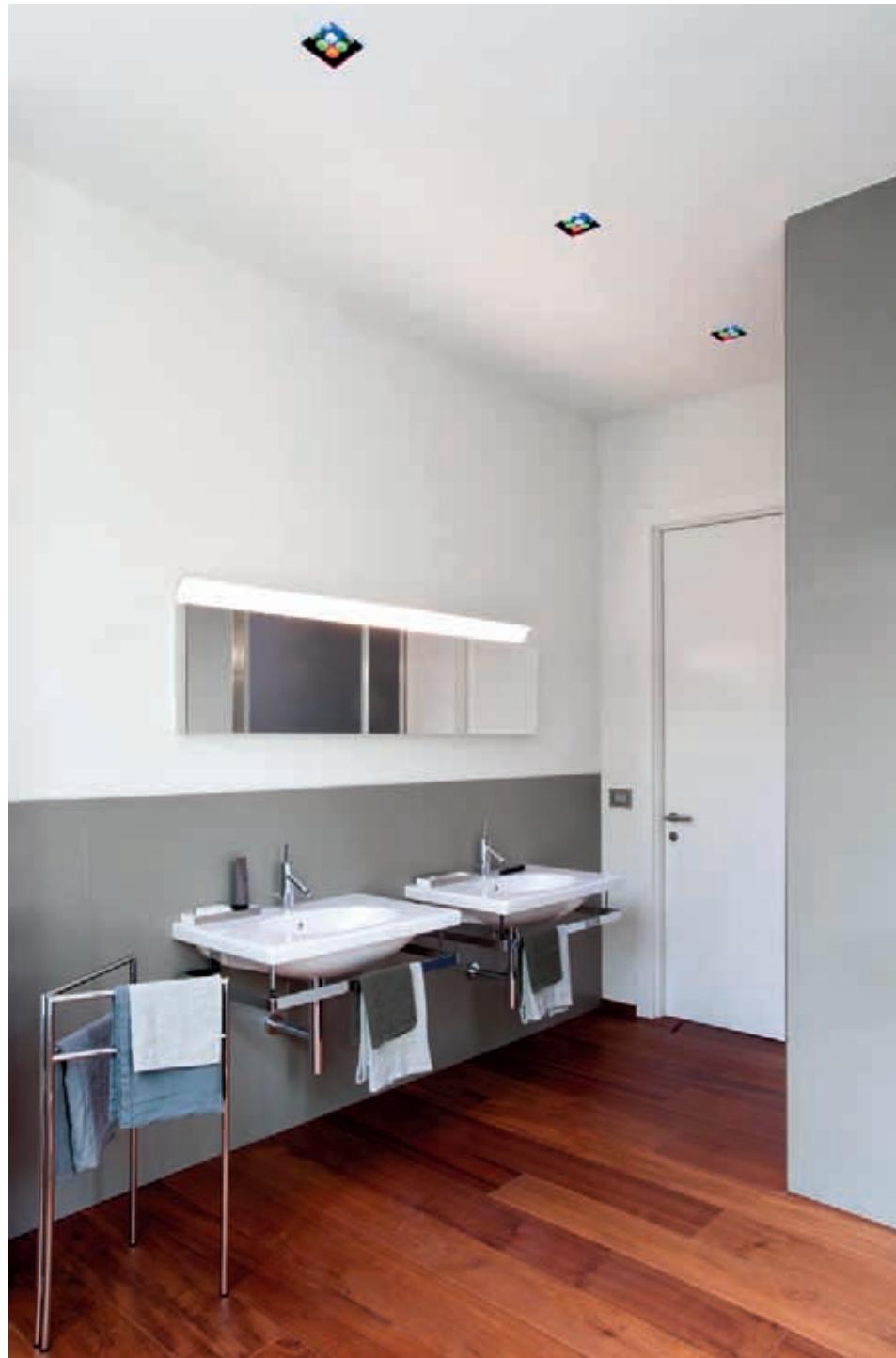
OPTIONAL FRAME





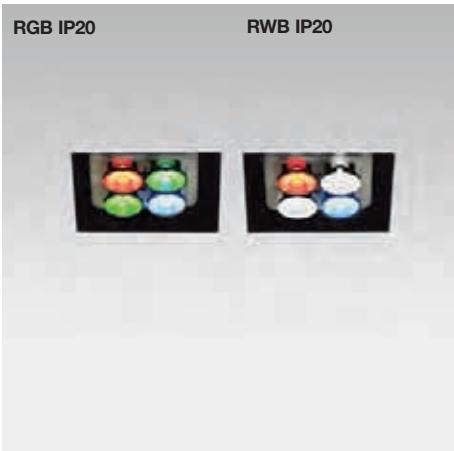
Private home, Milano | 2012

NOTE: Dimmable power supply on demand

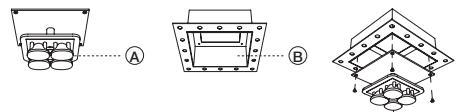


Design Lab, Milano | 2011





. Patent Pending N° MI2010A000185
 . Patent Pending N° MI2010A000657
 . LEED® certification's credits
 IP20 / IP65 4 LED 0,35 kg / 2 x 4 LED 0,9 kg
 3 x 4 LED 1,4 kg / 4 x 4 LED 1,6 kg
 Remote control LED life 80.000 hours



For maintenance

STANDARD

3700 K Ra 80

- (A) ◇ + (B) ◇
- (A) ◆ + (B) ◆



OPTIONAL

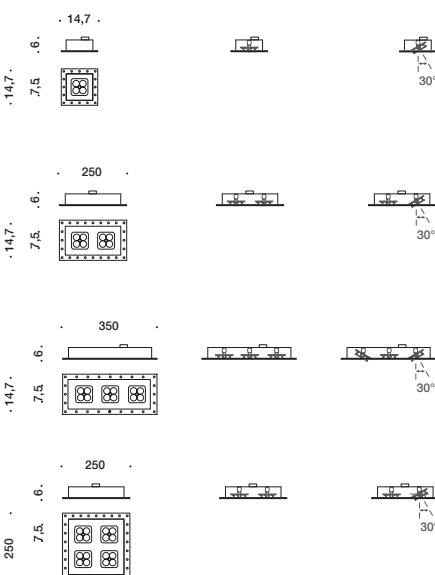
3000 K Ra 85

- (A) ◇ + (B) ◇
- (A) ◆ + (B) ◆
- (A) ◇ + (B) ◆



MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall



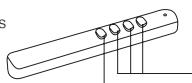
	LIGHT SOURCE	LENS	COLOUR	CODE	+	RGB	/	RWB
4 LED x 1,5 W	6°	(A) ALUMINIUM + (B) BLACK	DD0014I00D1	R	X			
		(A) BLACK + (B) BLACK	DD0014I09D1	R	X			
	20°	(A) ALUMINIUM + (B) BLACK	DD0014I00D2	R	X			
		(A) BLACK + (B) BLACK	DD0014I09D2	R	X			
2 x 4 LED x 1,5 W	38°	(A) ALUMINIUM + (B) BLACK	DD0014I00D3	R	X			
		(A) BLACK + (B) BLACK	DD0014I09D3	R	X			
	6°	(A) ALUMINIUM + (B) BLACK	DD0014L00D1	R	X			
		(A) BLACK + (B) BLACK	DD0014L09D1	R	X			
3 x 4 LED x 1,5 W	20°	(A) ALUMINIUM + (B) BLACK	DD0014L00D2	R	X			
		(A) BLACK + (B) BLACK	DD0014L09D2	R	X			
	38°	(A) ALUMINIUM + (B) BLACK	DD0014L00D3	R	X			
		(A) BLACK + (B) BLACK	DD0014L09D3	R	X			
4 x 4 LED x 1,5 W	6°	(A) ALUMINIUM + (B) BLACK	DD0014M00D1	R	X			
		(A) BLACK + (B) BLACK	DD0014M09D1	R	X			
	20°	(A) ALUMINIUM + (B) BLACK	DD0014M00D2	R	X			
		(A) BLACK + (B) BLACK	DD0014M09D2	R	X			
	38°	(A) ALUMINIUM + (B) BLACK	DD0014M00D3	R	X			
		(A) BLACK + (B) BLACK	DD0014M09D3	R	X			
	6°	(A) ALUMINIUM + (B) BLACK	DD0014N00D1	R	X			
		(A) BLACK + (B) BLACK	DD0014N09D1	R	X			
	20°	(A) ALUMINIUM + (B) BLACK	DD0014N00D2	R	X			
		(A) BLACK + (B) BLACK	DD0014N09D2	R	X			
	38°	(A) ALUMINIUM + (B) BLACK	DD0014N00D3	R	X			
		(A) BLACK + (B) BLACK	DD0014N09D3	R	X			

NOTE: the codes refer to the standard version equipped by black holders

EASY

IR remote control

separate management of the three channels



IR remote control (not included, to be ordered separately)

CODE

DDRGB001

* colour control (RGB/RWB)

on/off dimming

** programmes

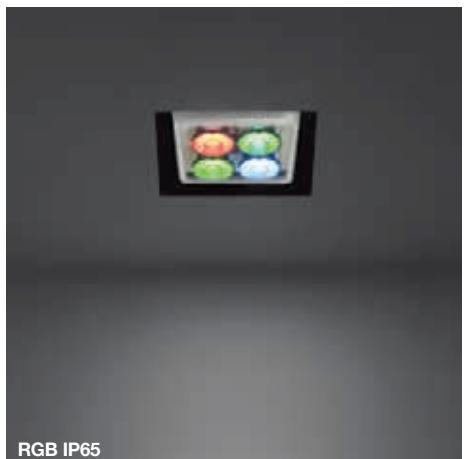
colour/white

ADVANCED

Dali or DMX

RWB: white tunable system with preset color temperatures from 2700 to 6500 K or separate management of the three channels.

RGB: System with preset color scenery or separate management of the three channels

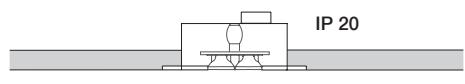


RGB IP65



RWB IP65

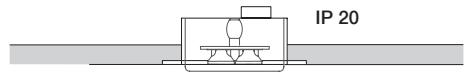
IP 20



IP20

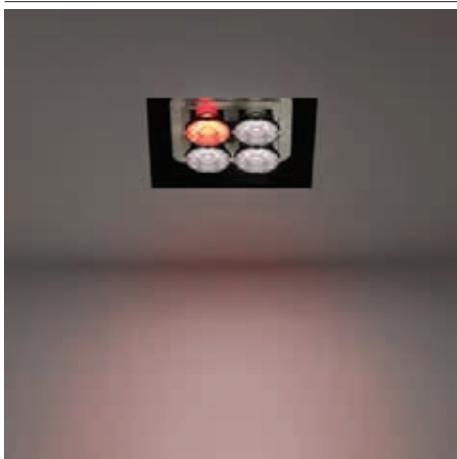
IP 44

With plastic cover

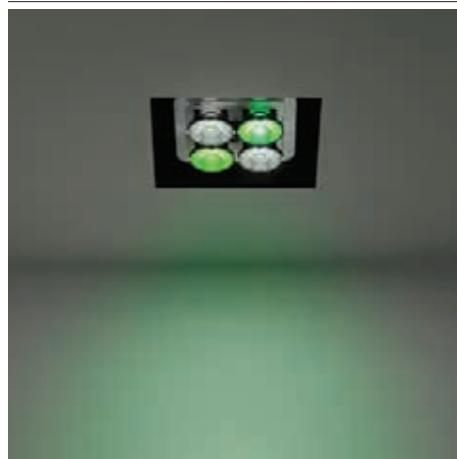


IP65

RGB / RWB RED



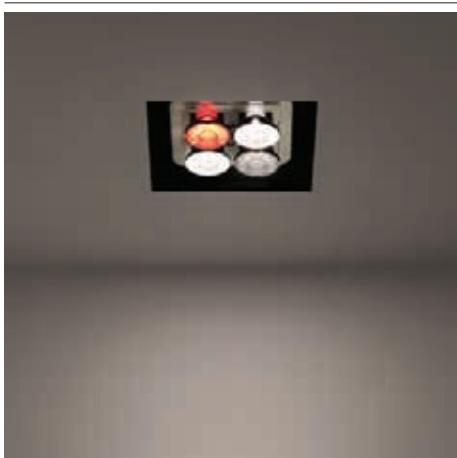
RGB GREEN



RGB / RWB BLUE



RWB warm white



RWB neutral white



RWB cool white





. Patent Pending N° MI2010A000185
. LEED® certification's credits

IP20 10 kg

① LED life 80.000 hours

STANDARD

3700 K Ra 80

Ⓐ ◇ + Ⓑ ◆ Ⓒ ◇



OPTIONAL

3000 K Ra 85

Ⓐ + Ⓑ + Ⓒ Ral colours

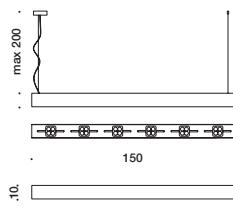


MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio - circuito stampato - metallo verniciato, aluminium - printed circuit board - painted metal, aluminium - circuit imprimé - metal peint, Aluminium - Leiterplat - lackiertes Metall

STANDARD

6 x 4 LED x 1,5 W



OPTIONAL

n x 4 LED x 1,5 W



LIGHT SOURCE

6 x 4 LED x 1,5 W

LENS

6°

ALUMINIUM

CODE

DD0014Z00D1

BLACK

DD0014Z09D1

ALUMINIUM

DD0014Z00D2

BLACK

DD0014Z09D2

ALUMINIUM

DD0014Z00D3

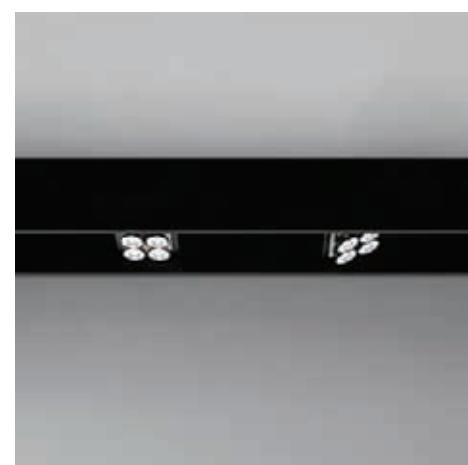
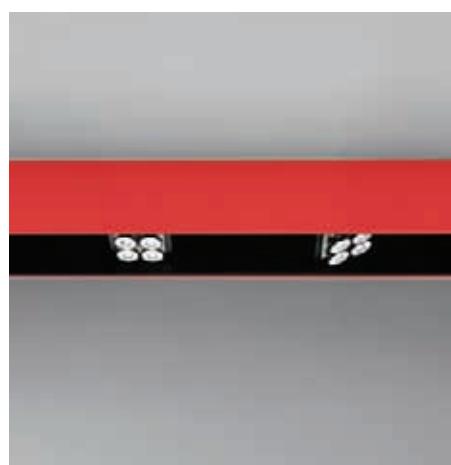
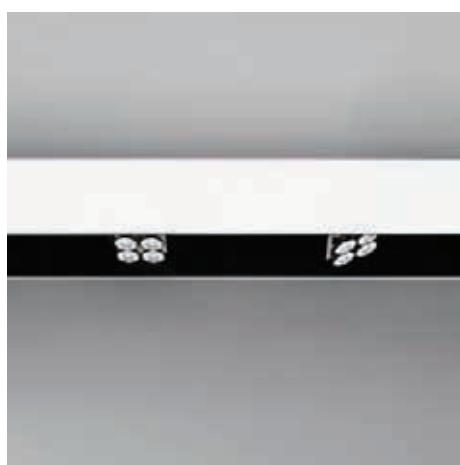
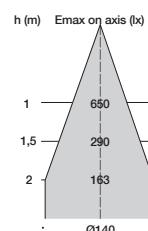
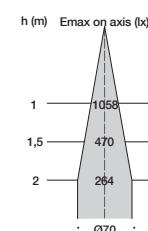
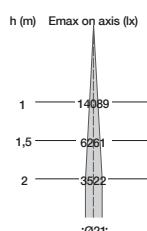
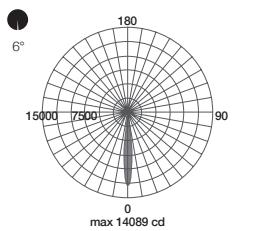
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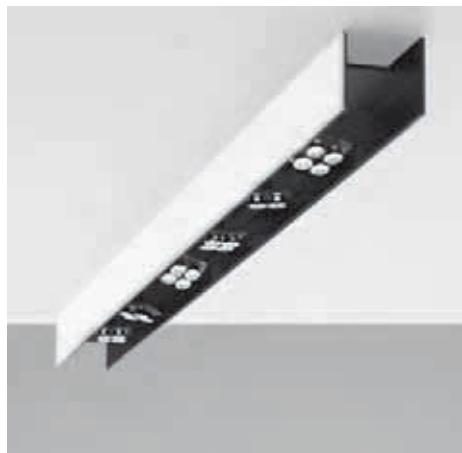
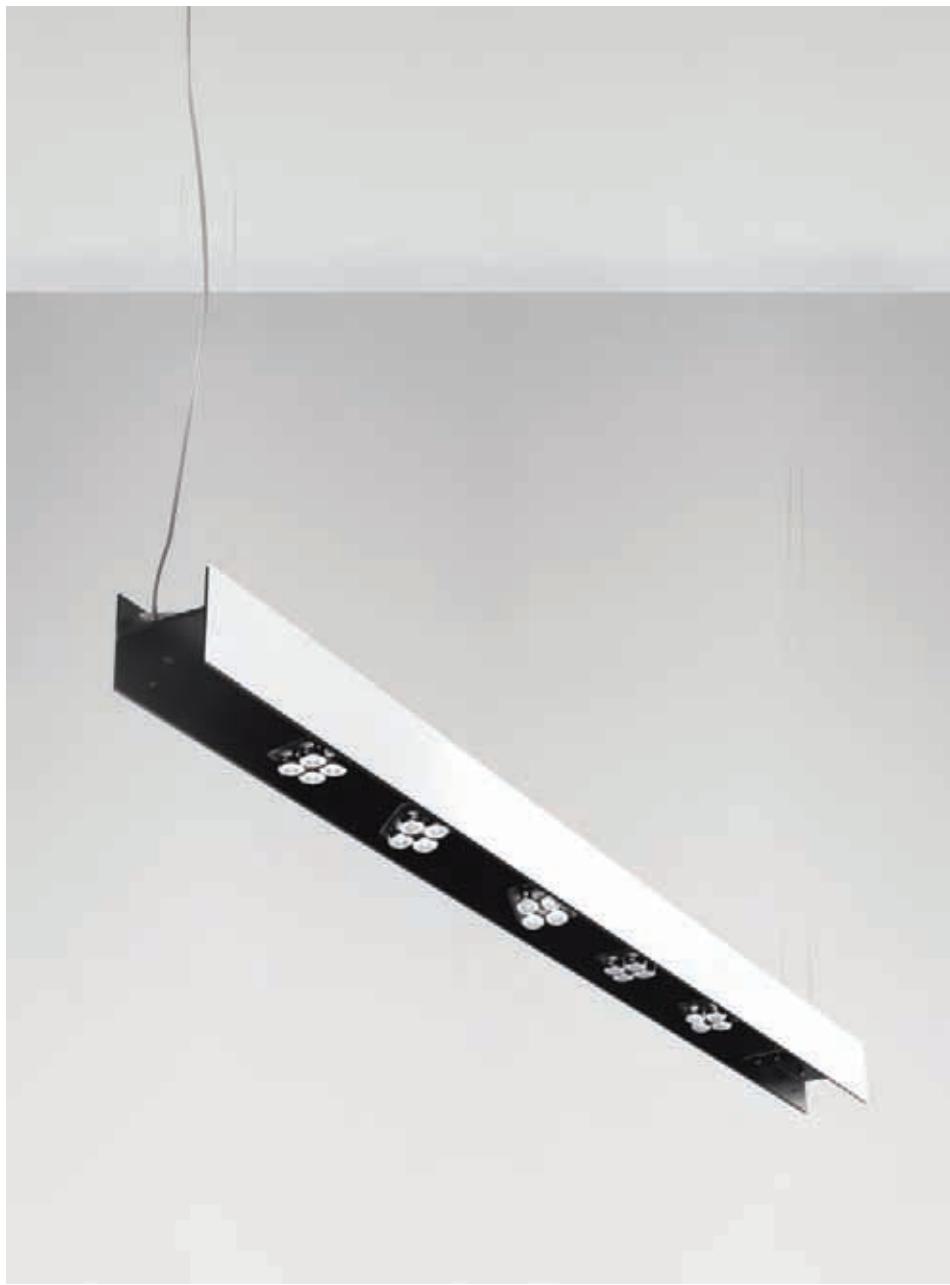
DD0014Z09D3

38°

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

4 LED x 1,5 W – total 6 W – total flux 498 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$







- . Patent Pending N° MI2010A000185
- . LEED® certification's credits

IP20 0,45 kg

LED life 80.000 hours

STANDARD

3700 K Ra 80



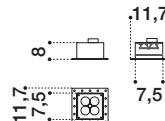
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplat



LIGHT SOURCE

6 W

4 LED x 1,5 W 3700K

LENS

6°

20°

38°

COLOUR

ALUMINIUM

BLACK

WHITE

ALUMINIUM

BLACK

WHITE

ALUMINIUM

BLACK

WHITE

CODE

DD001700D1

DD001709D1

DD001710D1

DD001710D2

DD001709D2

DD001700D2

DD001710D3

DD001709D3

DD001700D3



- . Patent Pending N° MI2010A000185
- . LEED® certification's credits

IP20 0,45 kg

LED life 80.000 hours

STANDARD

3700 K Ra 80



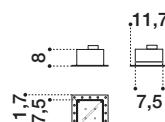
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplat



LIGHT SOURCE

6W

4 LED x 1,5 W 3700K

LENS

6°

COLOUR

ALUMINIUM

BLACK

WHITE

CODE

DD0018B00

DD0018B09

DD0018B10

4 LED x 1,5 W DIFFONDENTE - total 6 W - total flux 330 Lm

3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance $\pm 7\%$

η lamping Lm/W**

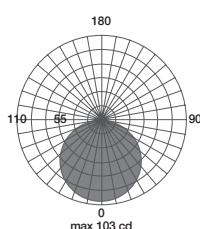
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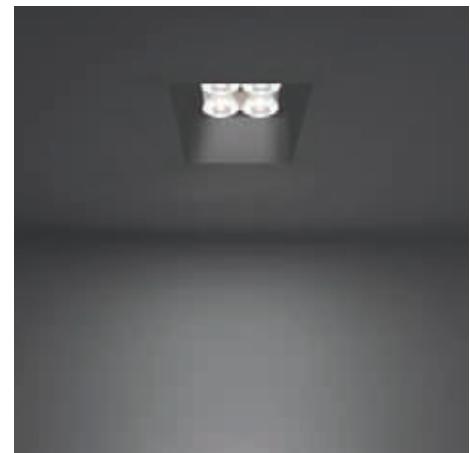
η lamp Lm/W

100

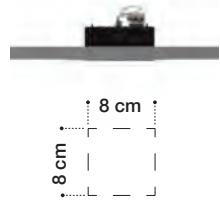
55%

55

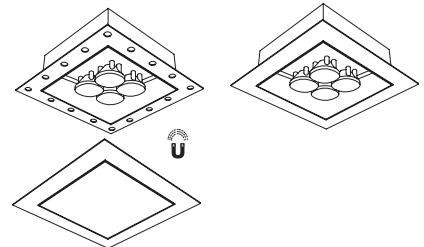




Installation



OPTIONAL FRAME



4 LED x 1,5 W - total 6 W - total flux 498 Lm

3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance $\pm 7\%$

η lamping Lm/W^{**}

R

η lamp Lm/W

100

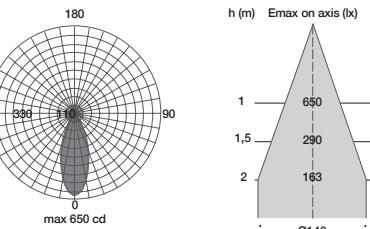
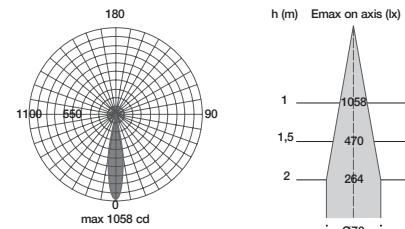
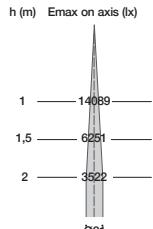
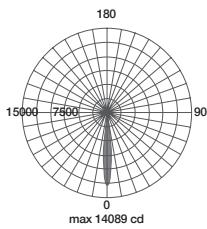
83%

83

6° UNA PRO 75° 6 W - 6° > Mr16** 50W - 10°

20° UNA PRO 75° 6 W - 20° < Mr16** 20W - 24° ES

38° UNA PRO 75° 6 W - 38° = Mr16** 20W - 36°





soffitto

. 9 LED x 1 W
. LENS 6° / 20° / 38°

① ⚒ ⓘ 15 x 15 1,1 kg / 15 x 30 1,3 kg



STANDARD

3700 K Ra 80

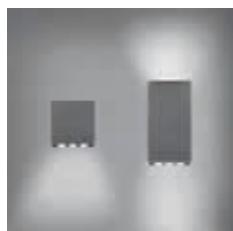


OPTIONAL

3000 K Ra 85



pag. 78



parete

. 9 LED x 1 W / 2 x 9 LED x 1 W
. LENS 6° / 20° / 38°

① ⚒ ⓘ 15 x 15 1,2 kg / 15 x 30 2,3 kg



STANDARD

3700 K Ra 80



OPTIONAL

3000 K Ra 85



pag. 82



incasso

. 9 LED x 1 W
. LENS 6° / 20° / 38°

① ⚒ ⓘ 1,3 kg



STANDARD

3700 K Ra 80



OPTIONAL

3000 K Ra 85



pag. 80

OPTICS

STANDARD

black holders



OPTIONAL

transparent / white holders



UNA PRO 150 soffitto



9 LED 9 W

UNA PRO 150 parete



9 LED 9 W

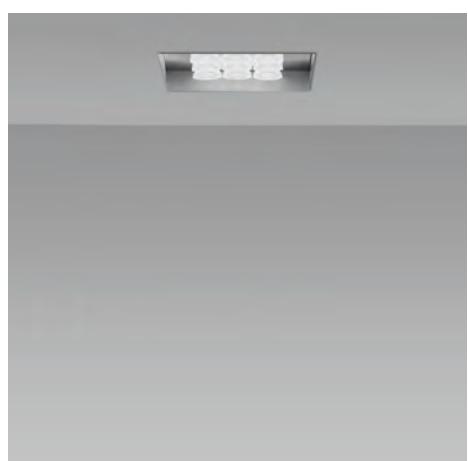
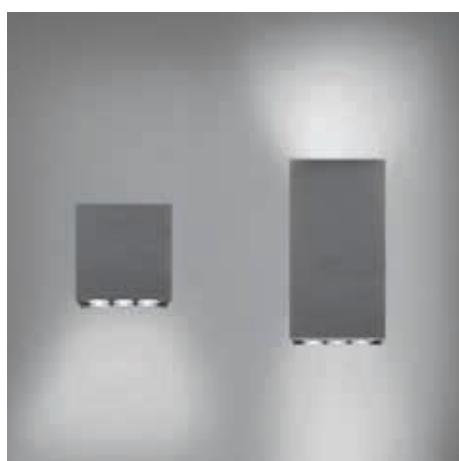
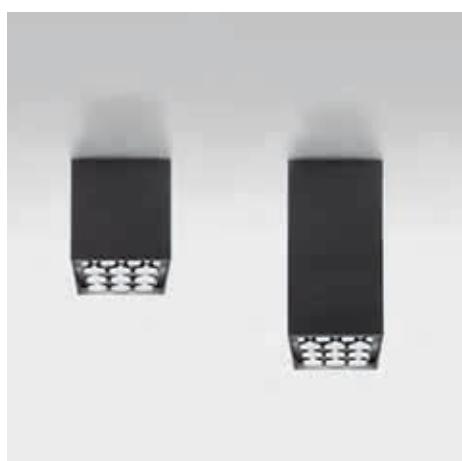


2 x 9 LED 18 W

UNA PRO 150 incasso



9 LED 9 W



POWER CIRCUIT

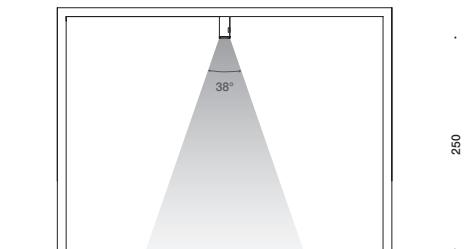
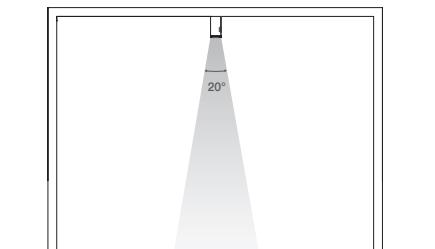
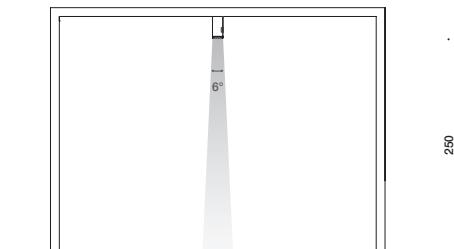
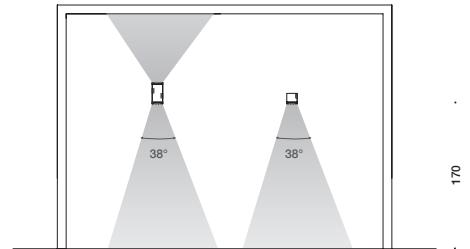
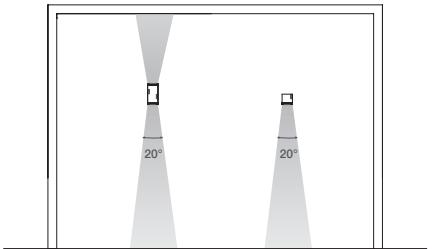
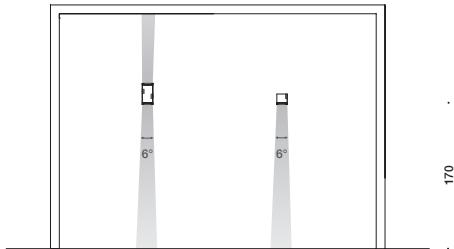
. UNA PRO compared with Ar111

UNA PRO*	LENS	vs	Ar111**
9 LED 9 W	6°	>	35 W 4°
	20°	>	35 W 24°
	38°	≤	50 W 45°

. UNA PRO 75 efficiency

UNA PRO 75	LENS	η lamping Lm/W**	R	η lamp Lm/W
9 LED 9 W	6°	100	83%	83
	20°	100	83%	83
	38°	100	83%	83

WIDE



6° narrow



20° medium



38° wide



* data from real surveys

** data declared in producers catalogues

UNA PRO 150 soffitto - Carlotta de Bevilacqua 2011

IP20



. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP20 / IP65 15 x 15 1,1 kg / 15 x 30 1,3 kg

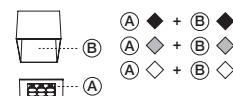
① LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



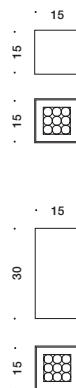
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

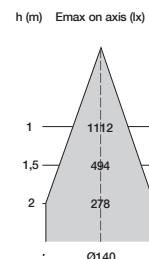
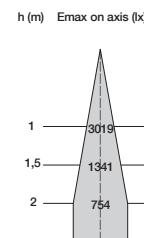
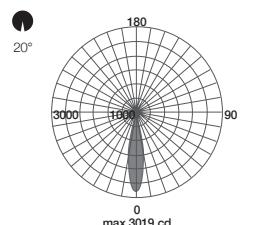
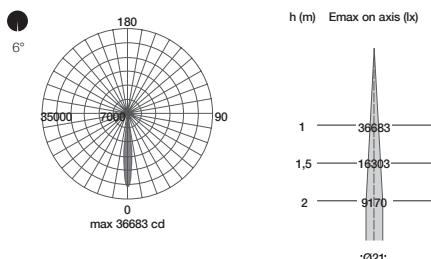
Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplat



LIGHT SOURCE	LENS	COLOUR	CODE IP20	IP65
15 x 15 9 LED x 1 W 3700K	6°	ALUMINIUM	DD0016A00A1C	+ IP
		BLACK	DD0016A09A2C	+ IP
		WHITE	DD0016A10A3C	+ IP
	20°	ALUMINIUM	DD0016A00A1C	+ IP
		BLACK	DD0016A09A2C	+ IP
		WHITE	DD0016A10A3C	+ IP
15 x 30 9 LED x 1 W 3700K	38°	ALUMINIUM	DD0016A00A1C	+ IP
		BLACK	DD0016A09A2C	+ IP
		WHITE	DD0016A10A3C	+ IP
	6°	ALUMINIUM	DD0016A00A1C	+ IP
		BLACK	DD0016A09A2L	+ IP
		WHITE	DD0016A10A3L	+ IP
15 x 30 9 LED x 1 W 3700K	20°	ALUMINIUM	DD0016A00A1L	+ IP
		BLACK	DD0016A09A2L	+ IP
		WHITE	DD0016A10A3L	+ IP
	38°	ALUMINIUM	DD0016A00A1L	+ IP
		BLACK	DD0016A09A2L	+ IP
		WHITE	DD0016A10A3L	+ IP

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

9 LED x 1 W – total 9 W - total flux 747 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - (IP65 -10% flux) - tolerance of ± 7%



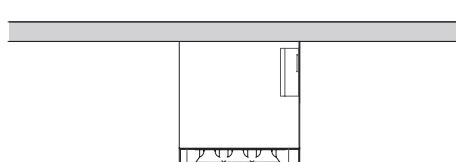
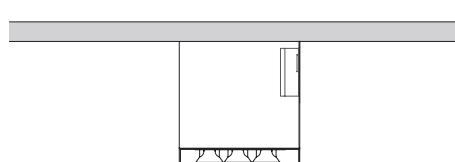
IP 20



IP65

IP 65

With plastic cover







. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP20



15 x 15 1,2 kg / 15 x 30 2,3 kg

① LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplat

LIGHT SOURCE

15 x 15
9 LED x 1 W 3700K

LENS

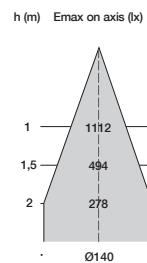
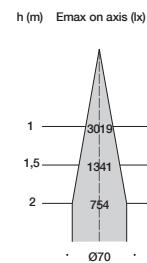
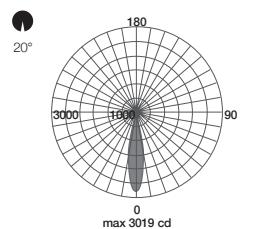
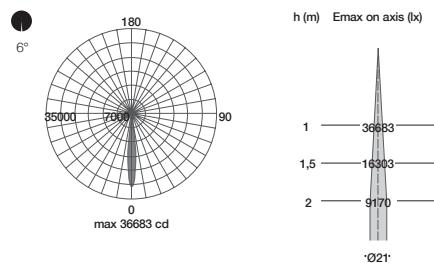
6°
20°
38°

COLOUR

	ALUMINIUM	CODE IP20
6°	BLACK	DD0016A09C1
6°	WHITE	DD0016A10C1
20°	ALUMINIUM	DD0016A00C2
20°	BLACK	DD0016A09C2
20°	WHITE	DD0016A10C2
38°	ALUMINIUM	DD0016A00C3
38°	BLACK	DD0016A09C3
38°	WHITE	DD0016A10C3

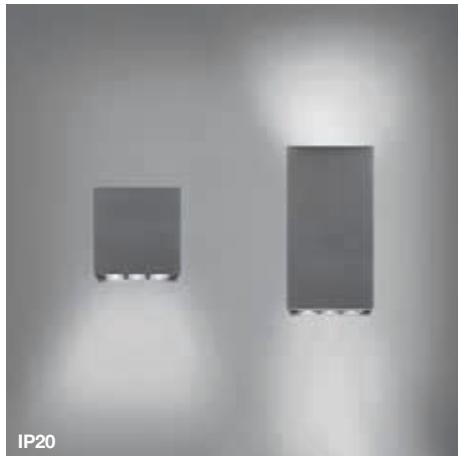
NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

9 LED x 1 W – total 9 W - total flux 747 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - (IP65 -10% flux) - tolerance of ± 7%





UNA PRO 150 parete - Carlotta de Bevilacqua 2011



IP20

. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP20 / IP65 15 x 15 1,2 kg / 15 x 30 2,3 kg

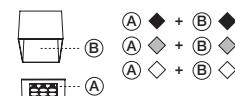
① LED life 80.000 hours

STANDARD

3700 K Ra 80



COLOUR



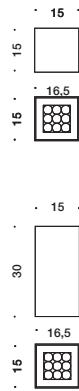
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplat



15 x 15
9 LED x 1 W 3700K

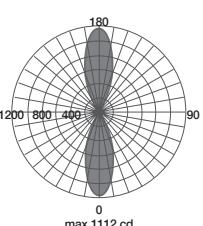
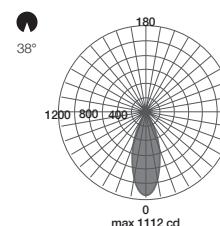
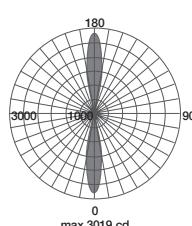
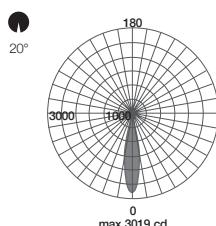
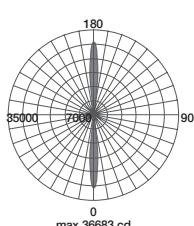
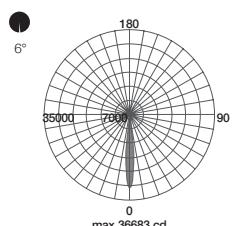
15 x 30
9 LED x 1 W 3700K

LIGHT SOURCE	LENS	COLOUR	CODE IP20	IP65
15 x 15 9 LED x 1 W 3700K	6°	ALUMINIUM	DD0016A00B1C	+ IP
		BLACK	DD0016A09B2C	+ IP
		WHITE	DD0016A10B3C	+ IP
	20°	ALUMINIUM	DD0016A00B1C	+ IP
		BLACK	DD0016A09B2C	+ IP
		WHITE	DD0016A10B3C	+ IP
15 x 30 9 LED x 1 W 3700K	38°	ALUMINIUM	DD0016A00B1C	+ IP
		BLACK	DD0016A09B2C	+ IP
		WHITE	DD0016A10B3C	+ IP
	6°	ALUMINIUM	DD0016A00B1C	+ IP
		BLACK	DD0016A09B2L	+ IP
		WHITE	DD0016A10B3L	+ IP
	20°	ALUMINIUM	DD0016A00B1L	+ IP
		BLACK	DD0016A09B2L	+ IP
		WHITE	DD0016A10B3L	+ IP
	38°	ALUMINIUM	DD0016A00B1L	+ IP
		BLACK	DD0016A09B2L	+ IP
		WHITE	DD0016A10B3L	+ IP

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

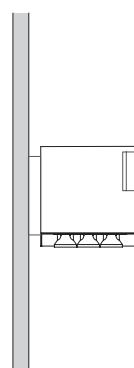
9 LED x 1W – total 9 W - total flux 747 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - (IP65 -10% flux) - tolerance of ± 7%

2 x 9 LED x 1W – total 18 W - total flux 1494 Lm – 3700 K Ra 80 (3000 K Ra 85 -30% flux) - (IP65 -10% flux) - tolerance of ± 7%



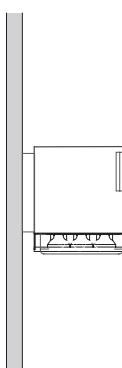
IP65

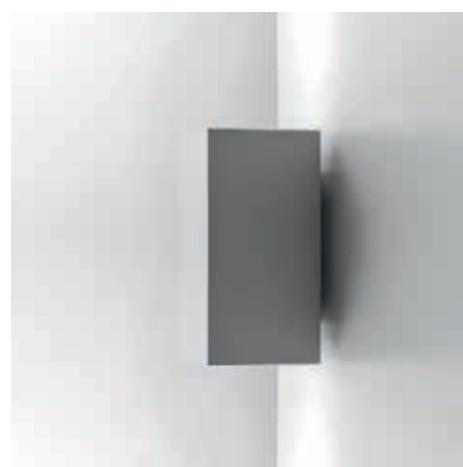
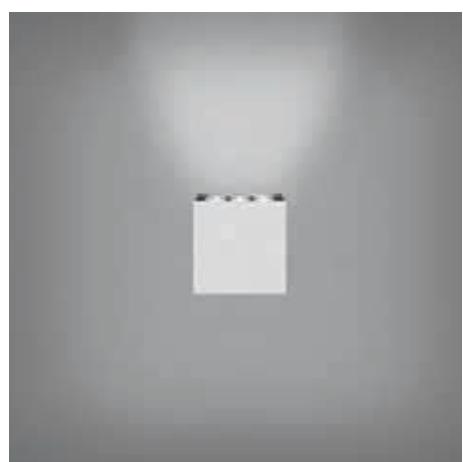
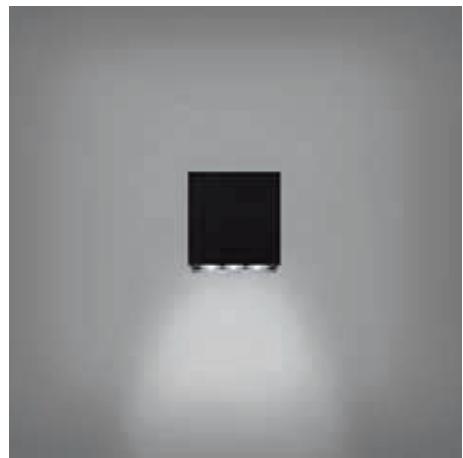
IP 20



IP 65

With plastic cover







Lorem ipsum, Milano | 2011



. Patent Pending N° MI2010A000185

. LEED® certification's credits

IP65 incasso 0,2 kg / SMD 0,25 kg

LED life 80.000 hours

STANDARD

3700 K Ra 80



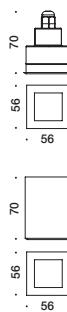
OPTIONAL

3000 K Ra 85



MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

Alluminio anodizzato o verniciato - circuito stampato, anodized or painted aluminium - printed circuit board, aluminium anodisé ou peint - circuit imprimé, éloxierter Aluminium oder lackiert - Leiterplatte



LIGHT SOURCE
INCASSO
1 LED x 1 W 3700K

SMD
1 LED x 1 W 3700K

LENS

6°

20°

38°

6°

20°

38°

COLOUR

ALUMINIUM

BLACK

WHITE

CODE

DD0019I00E1

DD0019I09E1

DD0019I10E1

DD0019I00E2

DD0019I09E2

DD0019I10E2

DD0019I00E3

DD0019I09E3

DD0019I10E3

DD0019I00E1S

DD0019I09E1S

DD0019I10E1S

DD0019I00E2S

DD0019I09E2S

DD0019I10E2S

DD0019I00E3S

DD0019I09E3S

DD0019I10E3S

NOTE: the codes refer to the standard version equipped by neutral white LED 3700K and black holders

ACCESSORIES

CODE

SPRINGS FOR CEILINGS

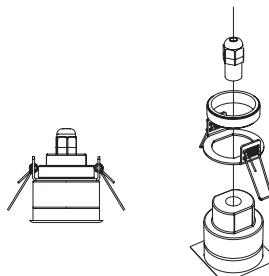
DD0019IML

RING FOR PANEL

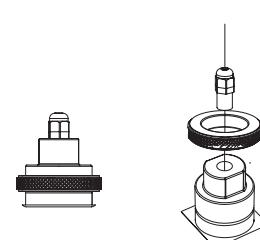
DD0019IGH

NOTE: the not included, to be ordered separately

SPRINGS FOR CEILINGS



RING FOR PANEL



1 LED x 1,5 W - total 1,5 W - total flux 124,5 Lm - 3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance $\pm 7\%$

η lamping Lm/W**

100

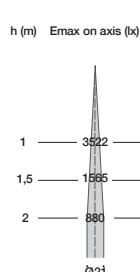
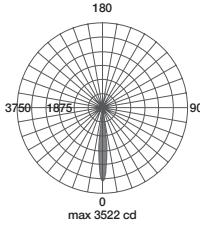
R

75%

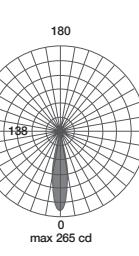
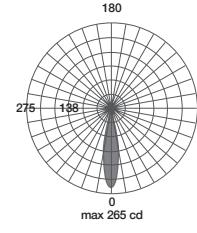
η lamp Lm/W

75

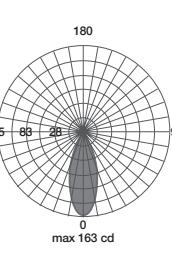
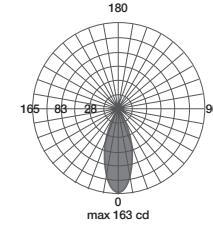
6°



20°



38°

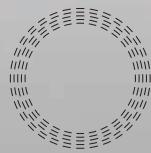




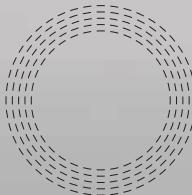
4 LED – total 8,5 W – 650 Lm



8 LED – total 17 W – 1300 Lm



Easy replacement
existing hole $7 \text{ cm} < \Delta^{**} < 11 \text{ cm}$



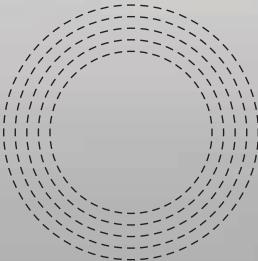
Easy replacement
existing hole $11 \text{ cm} < \Delta^{**} < 15 \text{ cm}$

Il sistema Due rappresenta un cambio di paradigma nel modo di interpretare la luce, grazie ad una sintesi tra la tecnologia LED di ultima generazione, le innovative ottiche rotosimmetriche e la suddivisione delle potenze e delle emissioni installate. Due definisce una luce down light comfort, morbida nell'ambiente, attraverso l'utilizzo di ottiche con emissione perfettamente controllata. Con un ottimo rendimento, risultato dalle proprietà geometriche e materiche delle ottiche, Due garantisce consumi nettamente inferiori a parità di illuminamenti ottenuti rispetto agli attuali sistemi down light ad alogeni o ai tradizionali apparecchi dark da ufficio a fluorescenti. Dialoga perfettamente con qualsiasi situazione spaziale esistente permettendo un aggiornamento tecnologico sia nelle performance che nel impegno energetico e gestionale, adattandosi anche a sostituire corpi illuminanti precedentemente installati.

Due system represents a paradigm change in the way of interpreting the light, thanks to a synthesis between the latest LED technology, the innovative circular symmetrical optics and the division of installed power and emissions. Due emits soft LED downlight through high performance optics that are employed to control light distribution. Thanks to an excellent performance, resulting from the geometric and material properties of the optics, Due guarantees significantly lower energy consumption (for the same illuminance) than the existing down light halogen systems or than the traditional office fluorescent dark appliances. It interacts perfectly with any existing spatial technology, allowing a technological updating both in performances and in managing and energy commitment, offering the possibility of replacing a previously installed lighting device.



12 LED – total 25 W – 2000 Lm



Easy replacement

existing hole 15 cm < Δ** < 19 cm

Le système Due représente un changement de paradigme dans la façon d'interpréter la lumière, grâce à un synthèse entre la dernière technologie LED, les innovantes circlaires symétriques optiques et de la division de la puissance et des émissions installées. Deux définit un léger duvet confort, doux dans l'environnement, grâce à l'utilisation de l'émission optique parfaitement contrôlée. Remerciant une excellente performance, résultant des propriétés géométriques et matérielles des optiques, Due garanties une consommation d'énergie nettement inférieure (au même éclairage) que les actuels halogènes systèmes down light ou que les traditionnels dark light appareils fluorescent de bureau.

Il interagit parfaitement avec n'importe quelle technologie existante, ce qui permet une amélioration à niveau technologique et des engagement énergétique et de gestion, offrant la possibilité de remplacer un dispositif d'éclairage déjà installé.

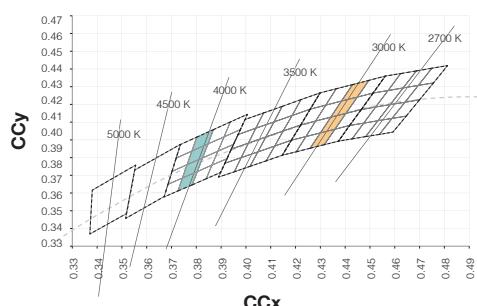
Das System stellt einen Paradigmenwechsel in der Art der Interpretation des Lichts, dank einer Synthese zwischen der neuesten LED-Technologie, die innovative rundförmige symmetrische Optik und die Aufteilung der installierten Leistung und Emissionen. Das definiert ein komfortables Licht, down light und weich in der Umgebung durch den Gebrauch einer Optik mit dark Effekt und mit perfekt kontrollierter Emission. Dank einer sehr guten Leistung, die sich aus den geometrischen und materiellen Eigenschaften der Optik entsteht, garantiert Das deutlich geringerer Energieverbrauch (bei gleicher Beleuchtungsstärke) als die bestehenden down light Halogen-Systemen oder als die traditionellen Büro fluoreszierende dark light Geräte. Es interagiert perfekt mit jedem vorhandenen räumlichen Technologie, so dass eine technologische Aktualisierung sowohl bei Auftritten und bei den Verwaltungs- und Energie-Engagement, mit der Möglichkeit, sofort ein zuvor installiertes Beleuchtungseinrichtung ersetzen.

DOWN LIGHT

Emissione limitata al di sotto dei 45° - Effetto multi ombra assente.
 Limited emission below 45° - Multi-shadow effect absent.
 émission limitée au dessous de 45° - Effet multi-ombre absent.
 Begrenzte Emission unterhalb von 45° - Fehlende mehrere-Schatten-Effekt.

NEUTRAL WHITE 4000K / CRI (Ra) 85
WARM WHITE 3000K / CRI (Ra) 90

BIN



DUE - POWER CIRCUIT

4 LED 8,5 W



8 LED 17 W



12 LED 25 W



16 LED 34 W



REFLECTORS

ABS metallizzato, metallized ABS,
 ABS métallisé, ABS metallische

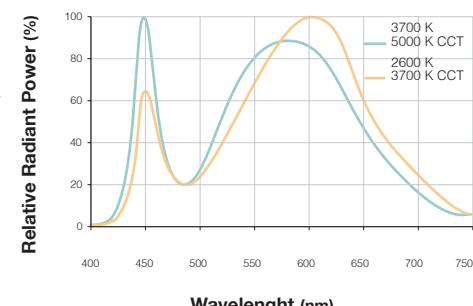


OPTIONAL LENSES

6°-20°-38°
 holder nero, bianco o trasparente
 holder black, white or transparent
 holder noir, blanc, transparent
 holder schwarz, weiß, transparent



SPECTRAL DIAGRAM



EASY REPLACEMENT



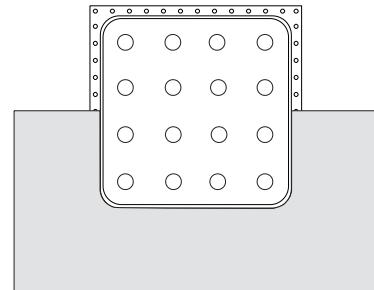
7 cm < Δ** < 11 cm



11 cm < Δ** < 15 cm



15 cm < Δ** < 19 cm

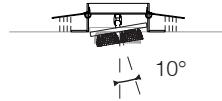
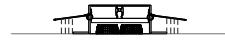


* Δ interval of possible dimensions of the holes

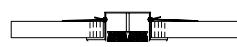
suitable for 60 x 60 cm modular false ceiling

BASIC

DYNAMIC



INSTALLATION



recessed



semirecessed



SMD



black



White



Bright Polished

DUE semirecessed - EASY REPLACEMENT



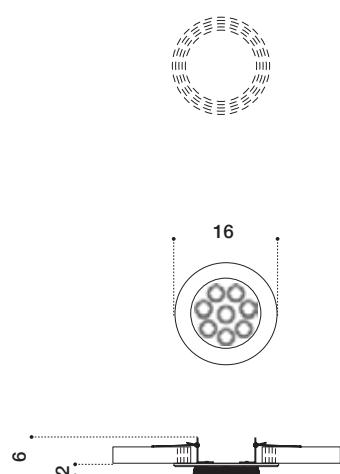
DUE 120

existing hole $7 \text{ cm} < \Delta^{**} < 11 \text{ cm}$



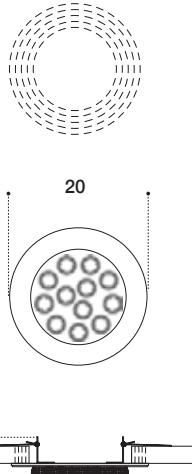
DUE 160

existing hole $11 \text{ cm} < \Delta^{**} < 15 \text{ cm}$



DUE 200

existing hole $15 \text{ cm} < \Delta^{**} < 19 \text{ cm}$



POWER CIRCUIT

8,5 W : 4 LED x 2,1 W
17 W : 8 LED x 2,1 W
25 W : 12 LED x 2,1 W

COLOUR



STANDARD

3000 K Ra 85

OPTIONAL

4000 K Ra 80

SPECIFICATION

IP20

① power supply included only in SMD version
LED life 80.000 hours

MATERIALS

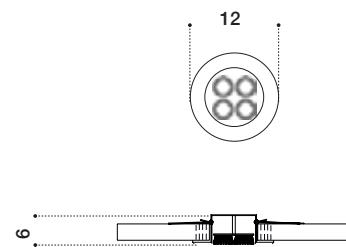
Alluminio lucidato o verniciato - circuito stampato
Polished or painted aluminium - printed circuit board

Aluminium anodisé ou acier poli - circuit imprimé
Eloxiertes Aluminium oder Polirete Stahl -
Leiterplatte

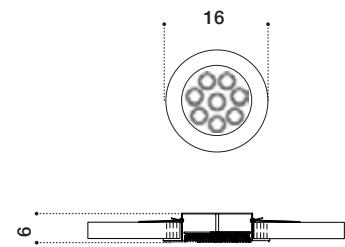
DUE recessed - EASY REPLACEMENT



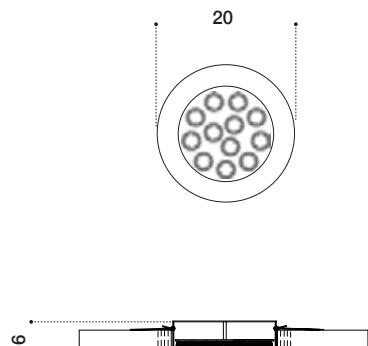
DUE 120 recessed



DUE 160 recessed

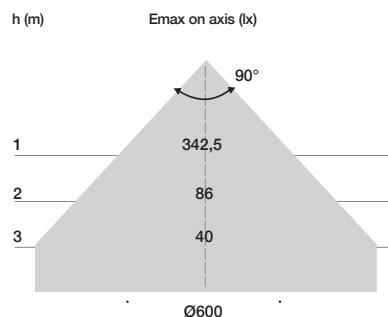
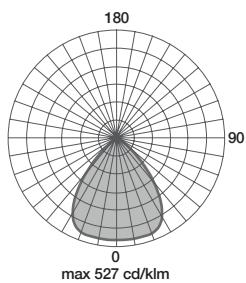


DUE 200 recessed



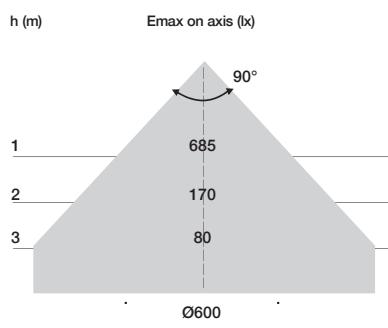
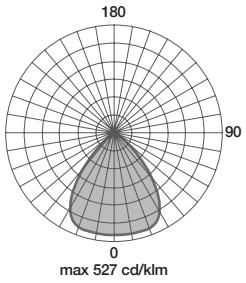
DUE 120: 4 LED x 2,1 W - total 8,5 W - total flux 650 Lm
3000 K Ra 85 (4000 K Ra 85 +30% flux) - tolerance \pm 7%

η lamping Lm/W**	R	η lamp Lm/W
100	87%	87



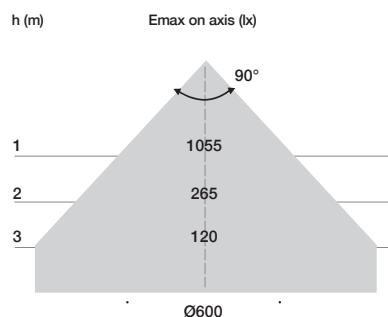
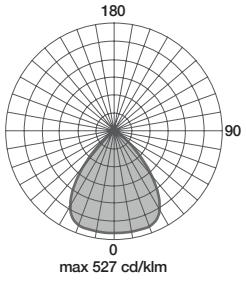
DUE 160: 8 LED x 2,1 W - total 17 W - total flux 1300 Lm
3000 K Ra 85 (4000 K Ra 80 +30% flux) - tolerance \pm 7%

η lamping Lm/W**	R	η lamp Lm/W
100	87%	87



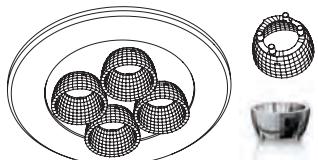
DUE 200: 12 LED x 2,1 W - total 25 W - total flux 2000 Lm
3000 K Ra 85 (4000 K Ra 80 +30% flux) - tolerance \pm 7%

η lamping Lm/W**	R	η lamp Lm/W
100	87%	87

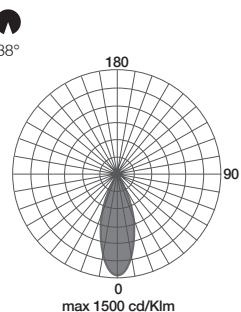
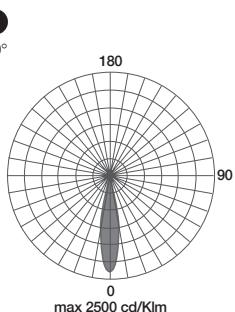
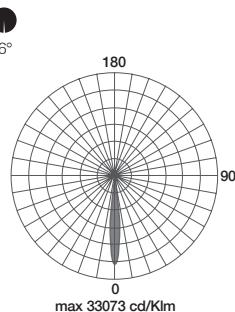
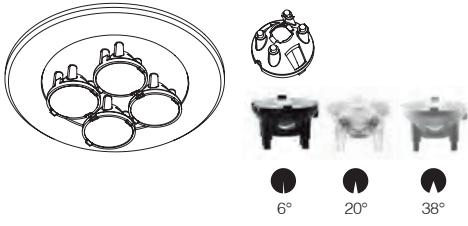


OPTIONAL LENSES

standard



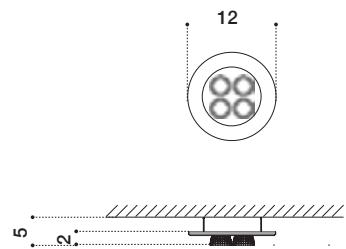
optional



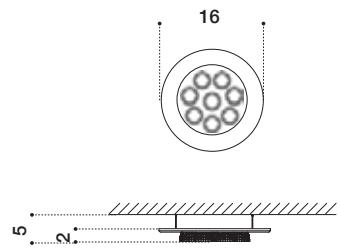
DUE SMD



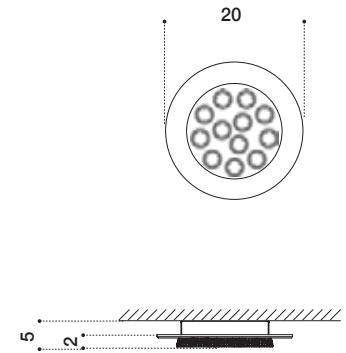
DUE 120 SMD

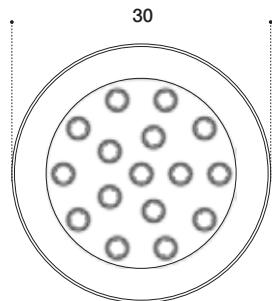


DUE 160 SMD



DUE 200 SMD





POWER CIRCUIT

34 W : 16 LED x 2,1 W

COLOUR



STANDARD

3000 K Ra 85

SPECIFICATION

IP20

① power supply included
only in SMD version
LED life 80.000 hours

MATERIALS

Alluminio lucidato o verniciato - circuito stampato
Polished or painted aluminium - printed circuit board
Aluminium anodisé ou acier poli - circuit imprimé
Eloxiertes Aluminium oder Polirete Stahl - Leiterplatte



recessed



semi-recessed



SMD

16 LED x 2,1 W - total 34 W - total flux 2600 Lm

3000 K Ra 85 (4000 K Ra 80 +30% flux) - tolerance $\pm 7\%$

η lamping Lm/W

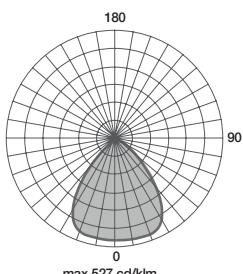
R

η lamp Lm/W

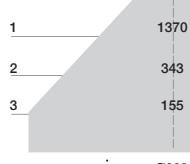
100

87%

87



h (m) Emax on axis (lx)

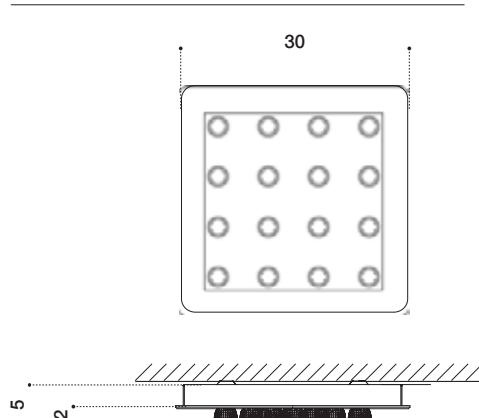


Ø600





DUE QUADRA - SMD



POWER CIRCUIT
34 W : 16 LED x 2,1 W

COLOUR
◆
◆
◇

STANDARD
3000 K Ra 85

SPECIFICATION
IP20

OPTIONAL
4000 K Ra 80

① power supply included
only in SMD version
LED life 80.000 hours

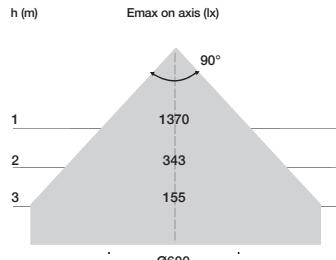
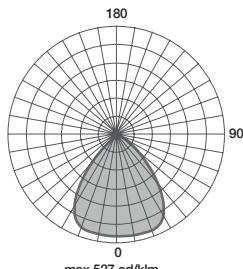
MATERIALS

Alluminio lucidato o verniciato - circuito stampato
Polished or painted aluminium - printed circuit board
Aluminium anodisé ou acier poli - circuit imprimé
Eloxiertes Aluminium oder Polirete Stahl - Leiterplatte

16 LED x 2,1 W - total 34 W - total flux 2600 Lm

3000 K Ra 85 (4000 K Ra 80 +30% flux) - tolerance \pm 7%

η lamping Lm/W	R	η lamp Lm/W
100	87%	87

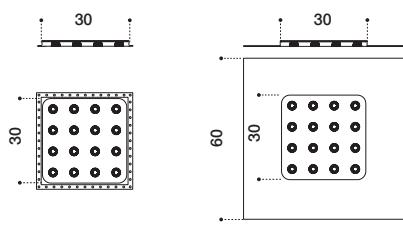






Black

DUE QUADRA - recessed



POWER CIRCUIT

34 W : 16 LED x 2,1 W

COLOUR



STANDARD

3000 K Ra 85

SPECIFICATION

IP20

power supply not included
LED life 80.000 hours



OPTIONAL

4000 K Ra 80

MATERIALS

Alluminio lucidato o verniciato - circuito stampato
Polished or painted aluminium - printed circuit board
Aluminium anodisé ou acier poli - circuit imprimé
Eloxiertes Aluminium oder Polirete Stahl - Leiterplatte

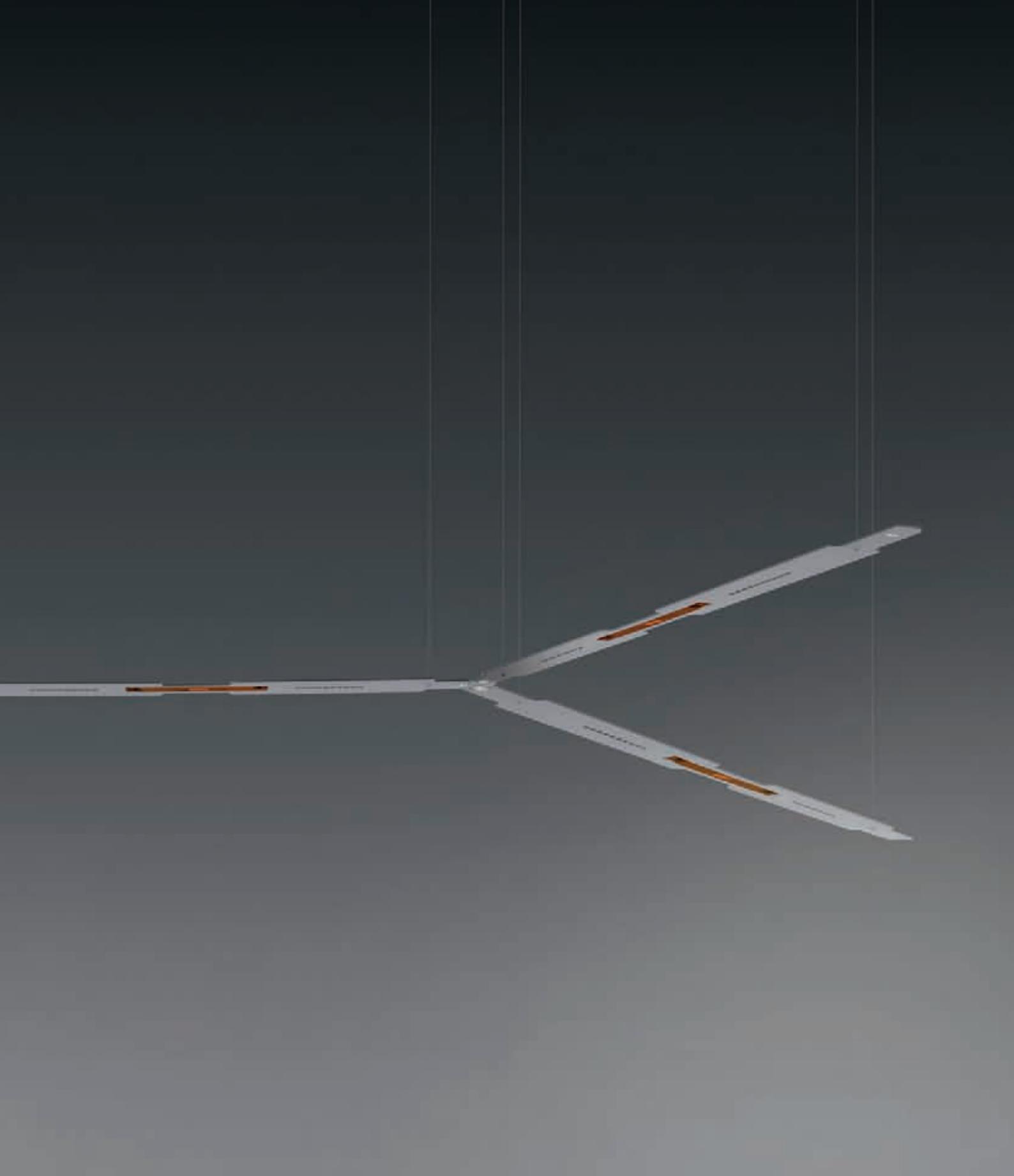




100% SUSPENSION è costituita da un'unica leggerissima lamiera di alluminio spessa solo 5 millimetri, che garantisce però un perfetto illuminamento grazie a led di potenza montati su di un circuito stampato flessibile (Patent Pending MI2010A000634) per ottenere un'emissione indiretta e una diretta dark in linea con le normative degli uffici. È un sistema composto da un modulo che può vivere singolarmente o inserito in configurazioni multiple con elementi di connessione a 180°, 120°, 90°, così da poter configurare con la massima libertà la luce nello spazio. Grazie alla tecnologia brevettata anche nei sistemi composti da più moduli l'emissione di ogni singolo elemento resta comunque gestibile indipendentemente dagli altri così da restituire importanza la singolo, dare valore e qualità allo spazio personale di lavoro, creare consapevolezza e responsabilità nella gestione.

100% SUSPENSION It is composed of a module that can function alone or be inserted in other configurations. It is a basic strip of light, a very light aluminium sheet only 5 mm thick, that guarantees perfect illumination due to Power LEDs mounted on a flexible printed circuit (Patent Pending MI2010A000634) that regulates light emission with a touch dimming control.

The system fits connecting elements among the various modules at 180°, 120°, 90° angles so as to give the opportunity to arrange light and space freely. The modules can be used and appreciated as a system or separately contributing to workspace enhancement and personal awareness and responsibility.



100% SUSPENSION est composé d'une tôle d'aluminium très légère de 5 millimètres d'épaisseur garantissant un éclairage parfait grâce à des leds montées sur un circuit imprimé flexible (Patent Pending MI2010A000634), à émission indirecte et directe dark-light conformes aux réglementations des bureaux.

Ce système est composé d'un module, individuel ou en configurations multiples, accompagné d'éléments de connexion à 180°, 120°, 90°, pour configurer librement la lumière dans l'espace.

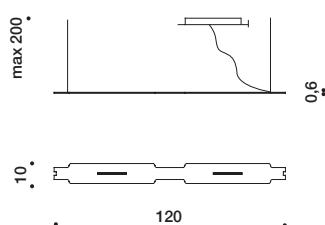
Bien que la technologie ait été brevetée pour des systèmes composés de plusieurs modules, l'émission d'un seul élément peut être gérée de manière indépendante afin de mettre en évidence l'élément individuel, de donner de la valeur et de la qualité à l'espace personnel de travail, de créer une conscience et une responsabilité de gestion.

100% SUSPENSION besteht aus einem einzigen, extrem leichten Aluminiumblech, das nur 5 Millimeter stark ist, jedoch perfekte Beleuchtung garantiert dank der Hochleistungs-LED, die auf einer flexiblen Leiterplatte montiert sind (Patent Pending MI2010A000634), sodass eine indirekte und direkte Dark-Emission entsprechend den Vorschriften für Büroumgebungen ermöglicht wird.

Das System besteht aus einem Modul, das entweder alleinstehend betrieben oder über Verbindungselemente im 180-, 120- oder 90-Gradwinkel in eine Mehrfachkombination eingegliedert werden kann, sodass das Licht im Raum in volliger Freiheit konfiguriert werden kann.

Dank der patentierten Technologie bleibt auch bei Systemen, die aus mehreren Bausteinen gebildet werden, die Emission jedes einzelnen Elements unabhängig von den anderen steuerbar, sodass dem Einzelement weiter seine Bedeutung zukommt, der persönlichen Arbeitsumgebung Wert und Qualität verliehen wird und Bewusstheit und Verantwortung bei der Gestaltung geschaffen wird.

misure in cm / dimension in cm



patent pending MI2010A000634

MATERIALI / MATERIAL:

Alluminio anodizzato o verniciato - circuito stampato
Anodized or painted aluminium - printed circuit board
Aluminium anodisé ou peint - circuit imprimé
Eloxierter oder lackiertes Aluminium - Leiterplatte

IP20

COLOUR

◆ ◇ ◇ corpo - body - corps - Leiterplatte
◆ ◇ ◇ circuito stampato - printed circuit board - circuit imprimé - Leiterplatte



power head end



head end



linear junction



junction 120°



junction 90°



0°

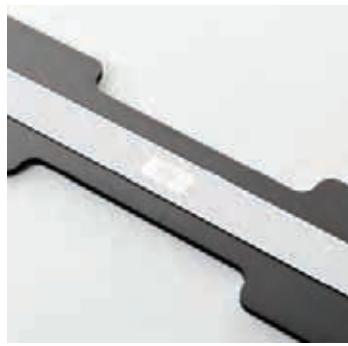
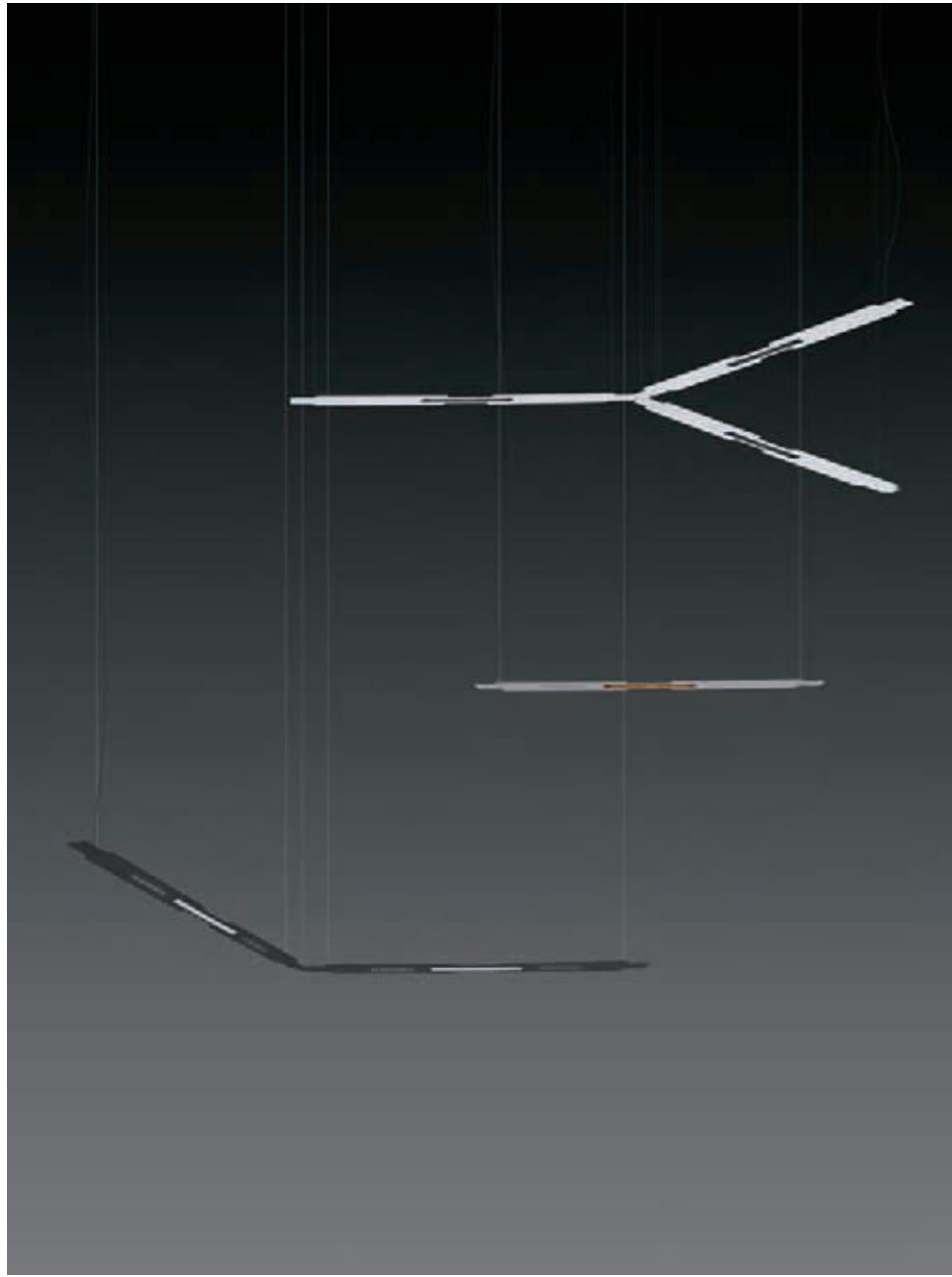


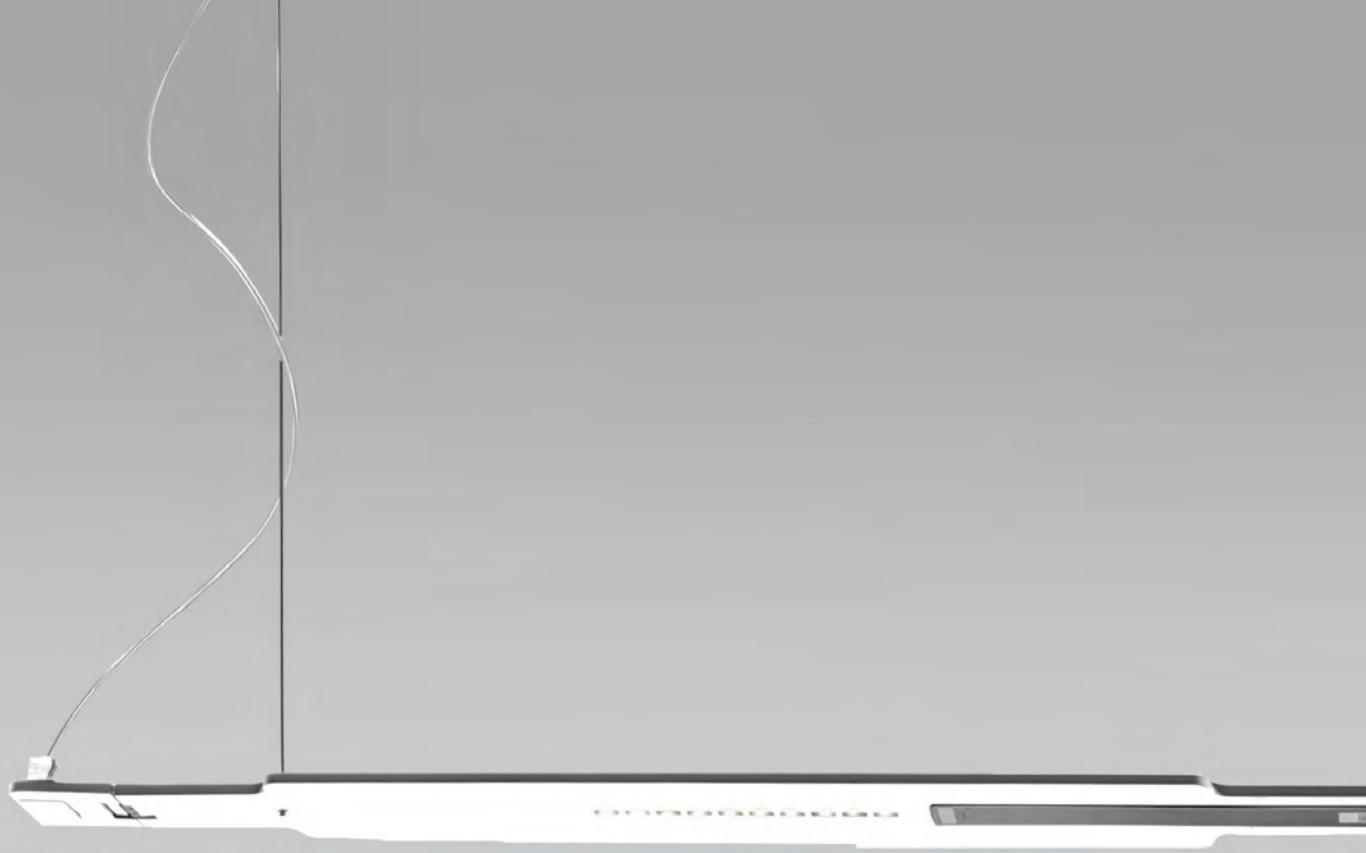
120°

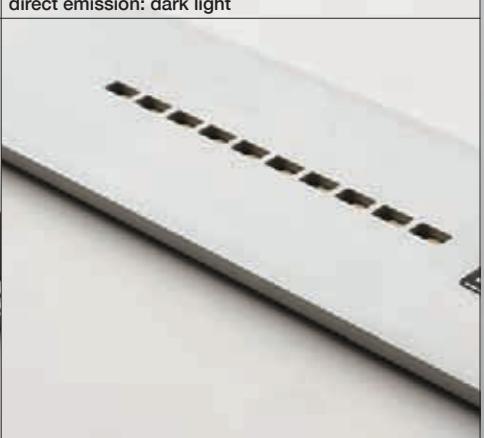


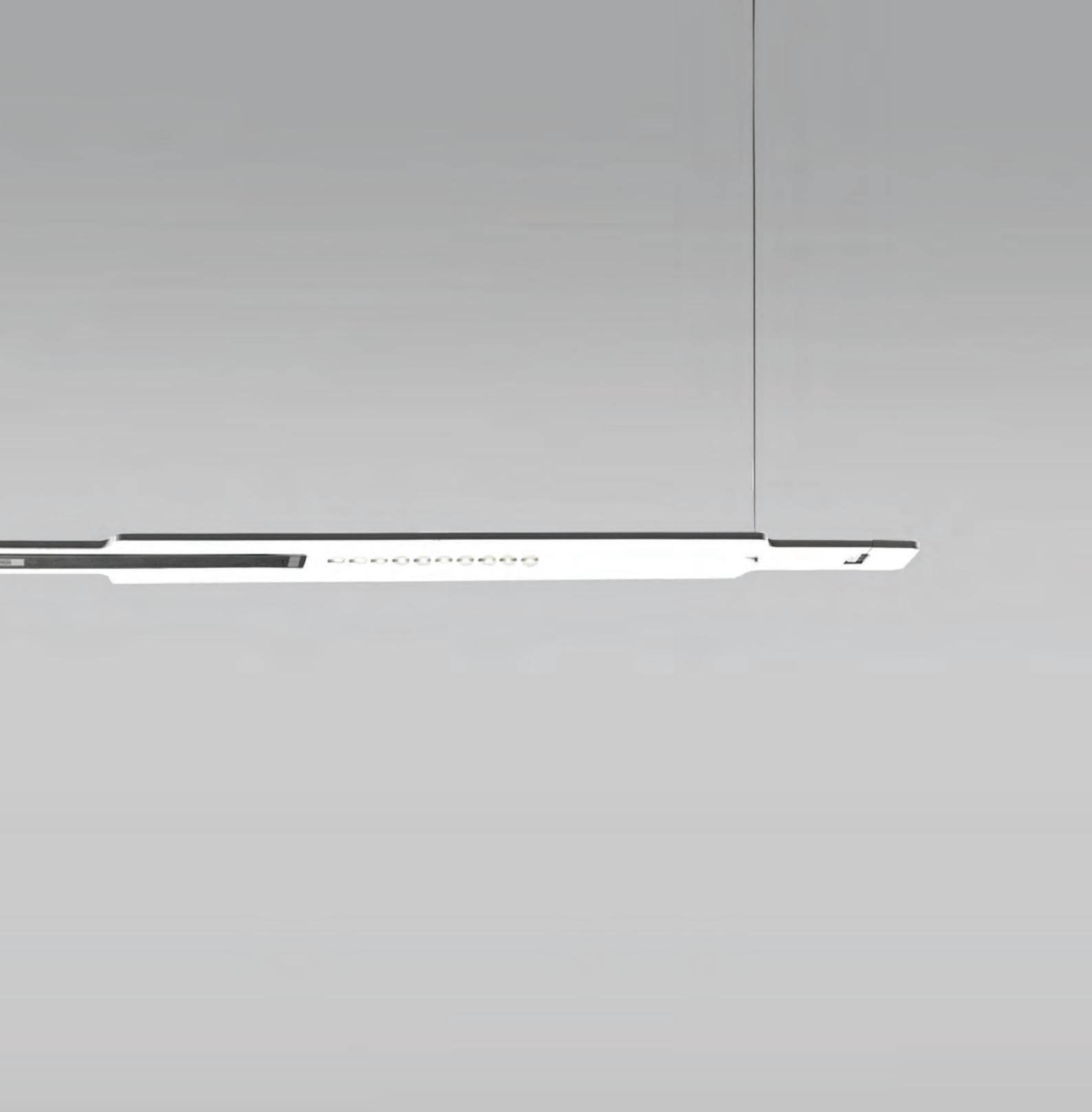
90°

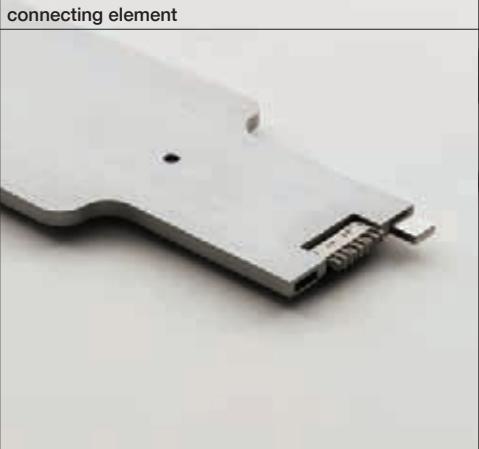






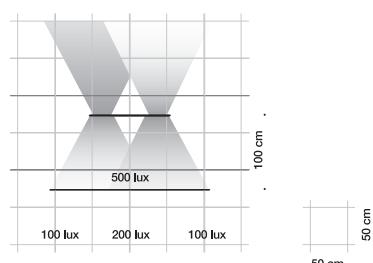
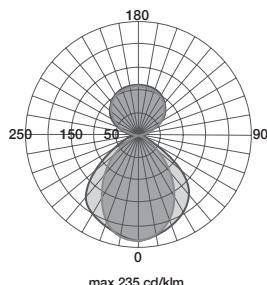
touch dimmer	indirect emission	direct emission: dark light
		



connecting element	power supply	suspension point
		

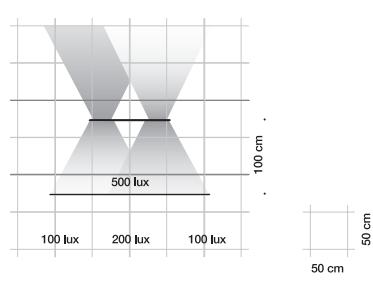
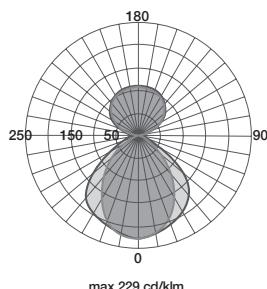
100% SUSPENSION - Ross Lovegrove 2010

WHITE	LAMPING	lamp flux Lm	η lamping Lm/W	R %	η lamp Lm/W
direct light	21,8 W : 20 x 1,09 W LED				
indirect light	10,9 W : 10 x 1,09 W LED	3031	98	94	92
total	32,7 W : 30 x 1,09 W LED				



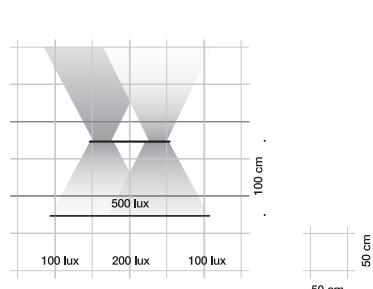
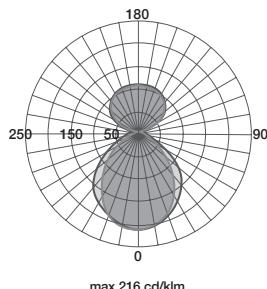
CCT	UGR	CRI
neutral white 4000 K	30	Ra 80

ALUMINUM	LAMPING	lamp flux Lm	η lamping Lm/W	R %	η lamp Lm/W
direct light	21,8 W : 20 x 1,09 W LED				
indirect light	10,9 W : 10 x 1,09 W LED	2776	98	86	84
total	32,7 W : 30 x 1,09 W LED				



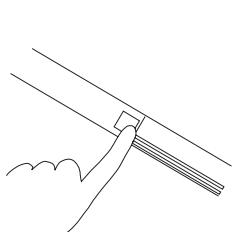
CCT	UGR	CRI
neutral white 4000 K	29	Ra 80

BLACK	LAMPING	lamp flux Lm	η lamping Lm/W	R %	η lamp Lm/W
direct light	21,8 W : 20 x 1,09 W LED				
indirect light	10,9 W : 10 x 1,09 W LED	2304	98	72	70
total	32,7 W : 30 x 1,09 W LED				

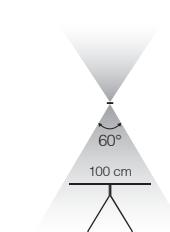


CCT	UGR	CRI
neutral white 4000 K	27	Ra 80

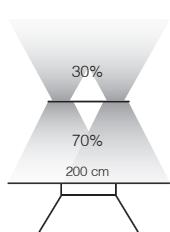
TOUCH DIMMER



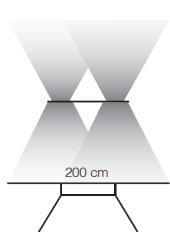
dimmable



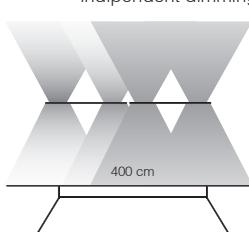
dimmable



dimmable



system: single power supply
independent dimming





LEED® CERTIFICATION CREDITS

CERTIFICAZIONE LEED®

Le caratteristiche tecniche di 100% SUSPENSION rappresentano una scelta ideale quando si voglia perseguire una certificazione LEED®, infatti, a seguito dell'analisi effettuata da esperti "LEED® Accredited Professional" sono stati ufficialmente riconosciuti alcuni requisiti fondamentali di ecosostenibilità, ovvero:

- . Conservazione dell'energia
- . Riduzione di emissioni (effetto serra) e inquinamento
- . Non contiene mercurio
- . Incremento del valore nel tempo dell'edificio dove vengono introdotte

CERTIFICATION LEED®

Les caractéristiques techniques de la 100% SUSPENSION représentent un choix idéal lorsque l'on souhaite obtenir une certification LEED®, en effet, suite à l'analyse effectuée par des spécialistes "LEED® Accredited Professional" certaines exigences fondamentales en termes de durabilité écologique ont été officiellement reconnues, c'est-à-dire:

- . Conservation de l'énergie
- . Réduction des émissions (effet de serre) et pollution
- . Pas de mercure
- . Augmentation, dans le temps, de la valeur de l'édifice où ces éléments sont introduits

LEED® CERTIFICATION

The technical characteristics of 100% SUSPENSION are an ideal choice when you want to pursue a LEED® certification, in fact, following the analysis carried out by "LEED® Accredited Professional" experts, some fundamental requirements of environmental sustainability have been officially recognized:

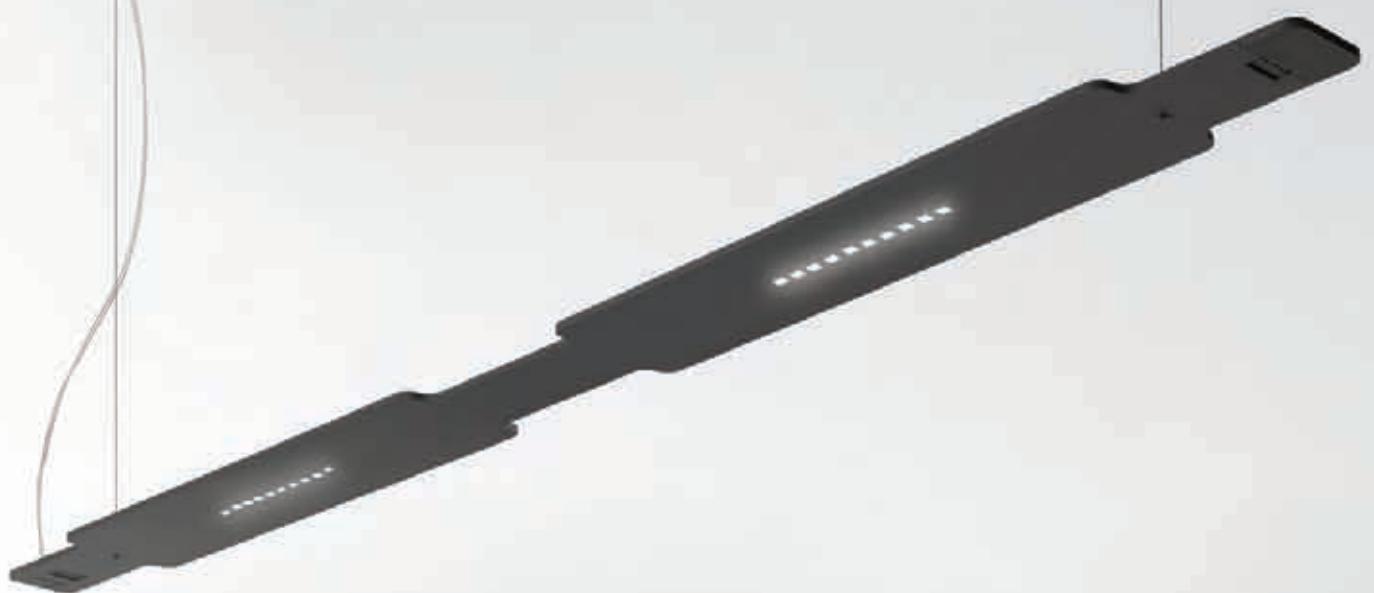
- . Energy conservation
- . Harmful greenhouse gas emissions reduction
- . Do not contain mercury
- . Building asset value increase

LEED® ZERTIFIZIERUNG

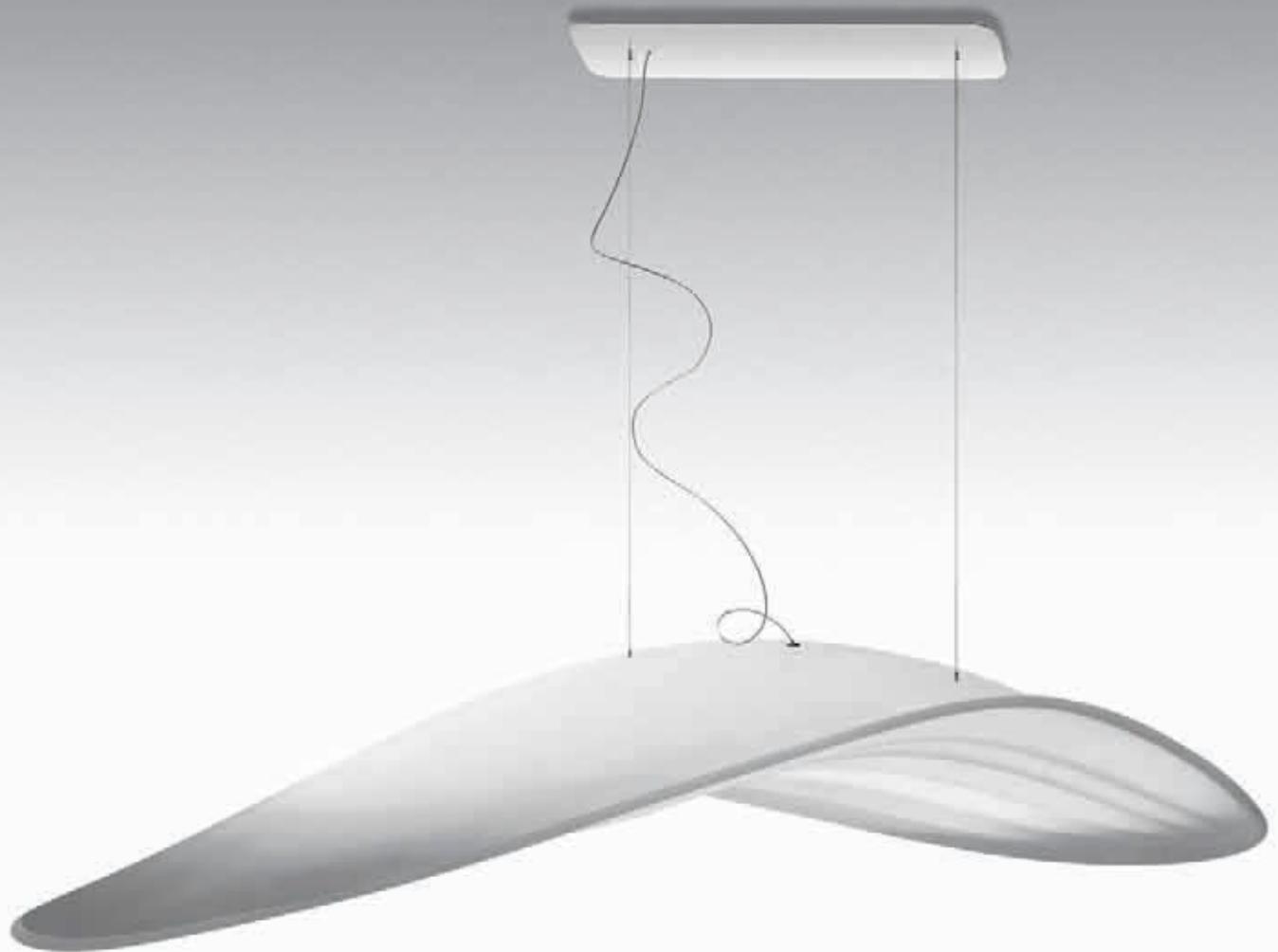
Die technischen Merkmale von 100% SUSPENSION sind die ideale Wahl, wenn man eine LEED® Zertifizierung erhalten möchte. Nach einer von "LEED® Accredited Professional" Experten durchgeföhrten Analyse wurden einige wesentliche Anforderungen bezüglich der Nachhaltigkeit festgelegt, wie:

- . Energieersparnis
- . Reduzierung von Emissionen (Treibhauseffekt) und Umweltverschmutzung
- . Keinen merkurinhalt
- . Zukünftige Werterhöhung des Gebäudes, in denen die Leuchten montiert werden

Credito LEED® LEED® credit Crédit LEED® LEED® Kredit	Titolo Title Titre Titel	Punteggio Score Points Punkte	Caratteristiche Features Caractéristiques Merkmale
SSC8	Riduzione dell'inquinamento luminoso <i>Reduction of light pollution</i> <i>Réduction de la pollution lumineuse</i> <i>Reduzierung von Lichtverschmutzung</i>	1	Elevata possibilità di regolazione <i>High possibility of control</i> <i>Haute possibilité de contrôle</i> <i>Hohe Kontrollmöglichkeit</i>
EA P2/C1	Ottimizzazione delle prestazioni energetiche <i>Optimization of energy performance</i> <i>Optimisation des performances énergétiques</i> <i>Optimierung der Energieleistungen</i>	1>19	Elevata efficienza / Basso consumo ed efficienza di calore <i>High efficiency / low consumption and heat emission</i> <i>Haute efficacité / faible consommation et émission de la chaleur</i> <i>Hohe Effizienz / niedriger Verbrauch und Hitze Emissionen</i>
MR C4	Contenuto di mercurio <i>Mercury content</i> <i>Contenu de mercure</i> <i>Merkur Inhalt</i>	1	Non contiene mercurio <i>Do not contain mercury</i> <i>Pas de mercure</i> <i>Keinen merkurinhalt</i>
MR C5	Materiali regionali <i>Regional material</i> <i>Matériaux régionaux</i> <i>Regionalen Materialien</i>	1>2	Installazioni peranenti: indicazione sede assemblaggio <i>Permanent installations: assembly site statement</i> <i>Installations permanentes: indication du siège d'assemblage</i> <i>Permanente Installationen: Hinweis des Zusammenbausitz</i>
QI C6.1	Controllo e gestione degli impianti: illuminazione <i>Control and management of equipment: lighting</i> <i>Control et gestion des équipements: éclairage</i> <i>Kontrolle und Leitung der Anlagen : Beleuchtung</i>	1	Elevata possibilità di regolazione per ergonomia personale <i>High possibility of control for individual ergonomics</i> <i>Haute possibilité de régulation pour ergonomie personnelle</i> <i>Hohe Kontrollmöglichkeit für individuelle Ergonomie</i>
IPC1	Innovazione nella progettazione <i>Project innovation</i> <i>Innovation de projet</i> <i>Planungsinnovation</i>	1>5	Prodotto innovativo/ <i>Innovative product</i> <i>Produit innovant</i> <i>Innovativer Produkt</i>



material diffuser	material structure	colour	symbols	emission							
	(19)	◆ ◇ ◇	IP20								
lamping		η lamping Lm/W	R	η lamp Lm/W							
Tot: 32,7W		98	94%	92%							
direct: 20x1,09W LED											
indirect: 10x1,09W LED		η lamping Lm	R	η lamp Lm							
CCT 4000K Ra 80		3139	94%	2951							
connecting elements 180°/120°/90°											
 0,5				 10							
 116				 180°/120°/90°							
 max 235 cd/km											
 0 90 180 270											







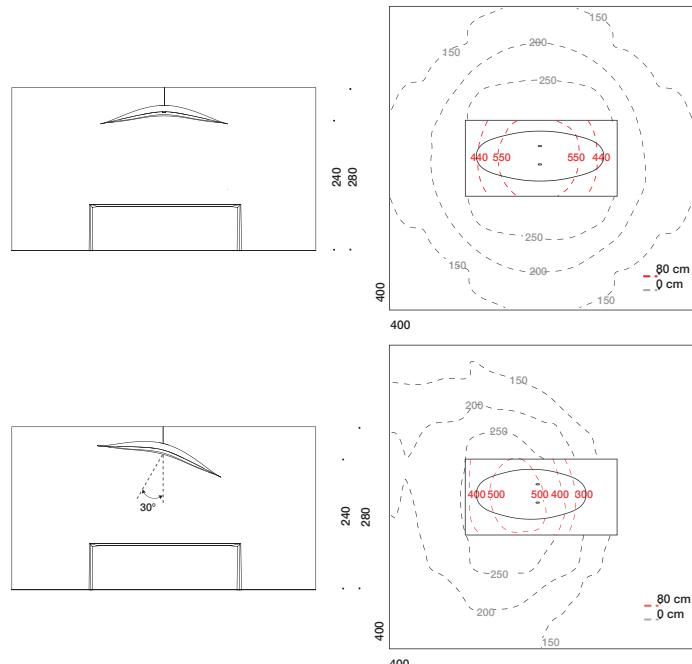
R.RAY è un elemento leggero, composto da due scocche con qualità materiche distinte che racchiudono due sorgenti fluorescenti. La scocca superiore può essere trasparente per non compromettere il rendimento del flusso emesso o opalina per controllare l'abbagliamento con un'emissione comfort, la sua forma e l'angolazione delle sorgenti al suo interno aiutano la luce indiretta a distribuirsi aprendosi ad illuminare un'ampia area per un'ottima illuminazione indiretta. L'illuminazione diretta è invece controllata dalle caratteristiche intrinseche del materiale opalino e dalla forma "ad onde" della scocca inferiore.

R.RAY può essere posizionata secondo diverse inclinazioni per creare sequenze meno rigide di apparecchi, gestire la distribuzione del flusso o semplicemente per dare un tocco più personale all'ambiente.

R.RAY est un élément léger, composé de deux coques de différentes matières contenant deux sources fluorescentes. La coque supérieure peut être transparente pour ne pas compromettre le rendement du flux émis ou opaline pour contrôler l'éblouissement avec une émission confortable ; sa forme et l'angulation des sources à l'intérieur facilitent la distribution de la lumière indirecte qui éclaire une large zone.

En revanche, l'éclairage direct est contrôlé par les caractéristiques intrinsèques du matériau opalin et la forme "en vagues" de la coque inférieure.

R.RAY peut être positionné dans différentes inclinaisons pour créer des suites d'appareils moins rigides, gérer la distribution du flux ou simplement donner une touche plus personnelle au milieu.



R.RAY is a light element that plays with transparencies, different densities and opacities of the materials to enable refined calibration of the light. Two quality chassis host two fluorescent warm light sources. The upper chassis is transparent but the intensity is moderated with a serigraphy that stops beyond the normal visual angle not to jeopardize the beam output. The shape and the angle of the wings help the direct light spread on a wide area ensuring a great amount of indirect illumination.

On the other hand, the direct illumination is modulated by the intrinsic features of materials and "woven" shapes of the lower chassis that contribute to moderate the perception of the two sources as clear and distinct fonts which change, depending on the points of view. The light changes intensity with a gradual transition along the length of the lamp fading and it concentrates in the centre line with a continuous light beam that enlivens and characterizes the lamp. The shape is soft. Its section widens to follow the light beam that focuses on the centre and accompanies the user's perception, tapering elegantly at the extremities, fusing with the light into the environment.

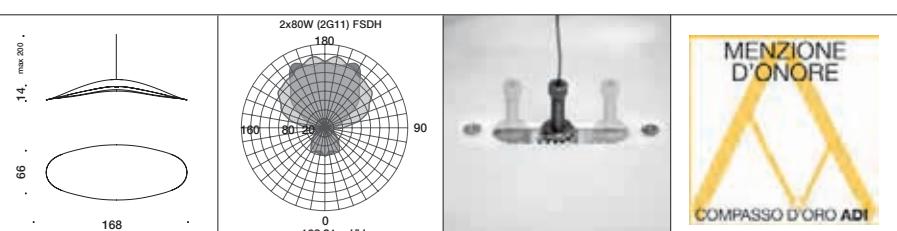
R.RAY ist ein leichtes Element, das aus nur zwei Schalen mit unterschiedlichen Materialmerkmalen besteht, welche zwei Fluoreszenzlampen umschließen. Die obere Schale ist entweder aus Klarglas erhältlich, damit die Abstrahlleistung in keiner Weise beeinträchtigt wird, oder aus Milchglas, damit keine Blendung auftritt und größerer Komfort geboten wird. Die Form und Winkelung der Lichtquellen im Innern erleichtern es dem indirekten Licht, sich zu verteilen und ein breites Feld auszuleuchten, sodass optimale indirekte Beleuchtung garantiert wird.

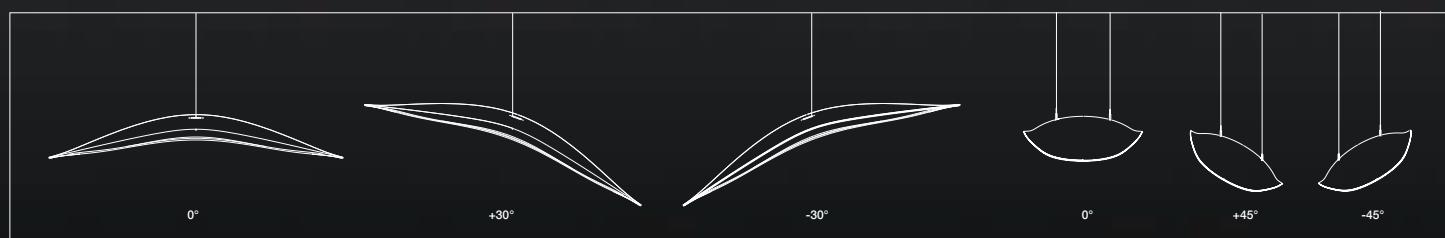
Die direkte Beleuchtung wird hingegen durch die dem Milchglas innenwohnenden Eigenschaften und die "Wellenform" der unteren Schale kontrolliert.

R.RAY kann mit unterschiedlichen Neigungswinkeln positioniert werden, um eine weniger strenge Reihenfolge der einzelnen Beleuchtungskörper zu schaffen, um die Verteilung des Lichtstrahls zu gestalten oder einfach um dem Raum eine persönliche Note zu verleihen.

material diffuser	material structure	colour	symbols	emission
(8)	(34)	◊ ◊ ○ TR	IP20	
lamping		1 lamp Lm/W	TR ◊ R	1 lamp Lm/W
2x55W (2G11) FSDH	87	79%		69
2x80W (2G11) FSDH	75	79%		59

* available in dimmable version





SPINA sospensione / parete - *Gabi Peretto 2008*







SPINA adotta un codice linguistico elementare con cui può entrare con discrezione a far parte dello spazio quotidiano in luoghi pubblici o privati ma mantiene un'espressività evidente e, con il suo aspetto scultoreo, può diventare un segno forte che caratterizza anche e soprattutto attraverso la luce la definizione dello spazio.

Il profilo della cocca direziona un'ampia illuminazione indiretta, la possibilità di combinare più elementi tra loro rende possibile modellare il ritmo dell'atmosfera luminosa degli ambienti adattandosi a tutte le esigenze grazie alla possibilità di interpretare le sue performance a favore di una luce più emozionale ma comunque funzionale.

SPINA adopte un code linguistique élémentaire lui permettant d'entrer discrètement dans l'espace quotidien de lieux publics ou privés; il maintient toutefois une expressivité évidente et il caractérise fortement la définition de l'espace, grâce à son aspect sculptural et à la lumière émise.

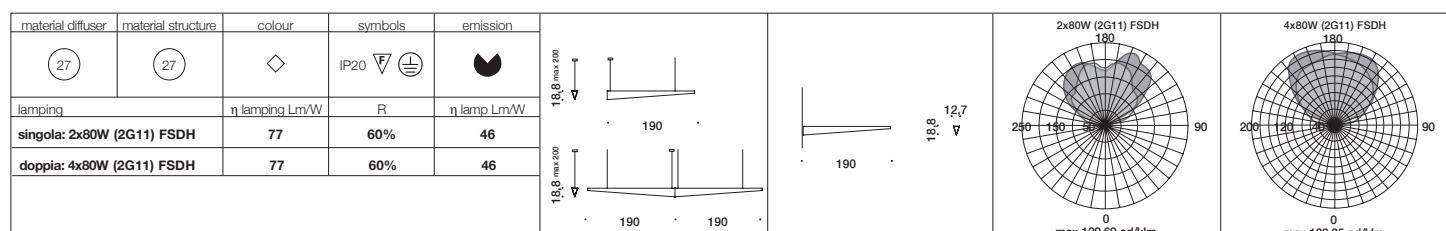
Le profil de la coque donne un large éclairage indirect; l'association de plusieurs éléments et l'interprétation des performances en faveur d'une lumière plus émotionnelle mais fonctionnelle permettent de modeler l'atmosphère lumineuse de la pièce pour répondre à toutes les exigences.

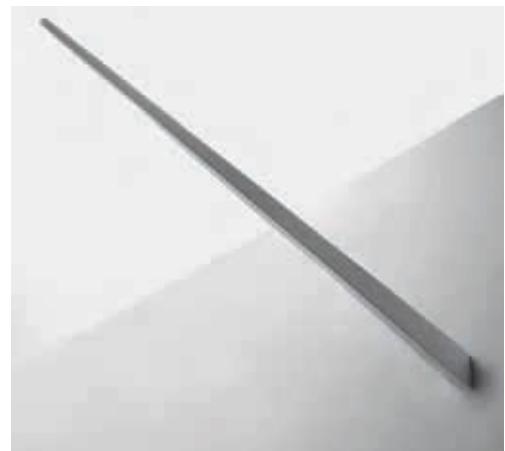
SPINA superbly represents the values that Danese pursues in the direction of a complete ecological approach, perceptively and also respectfully as far as the natural environment is concerned. It is characterized by simplicity and discretion. It can become part of our everyday life, both in public and private places, whilst maintaining its self-expression. Due to its sculptural appearance, it can turn out to be a strong sign that portrays the definition of the space, mainly through the light.

The range of diverse versions and the choice of combining various elements make it possible to mould the rhythm of the luminous atmosphere of the environment. It suits all needs thanks to the interesting variety of interpretations of its performance in favour of a more emotional and functional light.

SPINA verwendet einen elementaren Sprachcode, mit dessen Hilfe sich die Leuchte diskret in das tägliche Leben öffentlicher oder privater Räumlichkeiten eingliedert, wobei jedoch eine klare Ausdrucksfähigkeit beibehalten wird. Mit ihrem skulpturhaften Äußeren kann die Leuchte starke Zeichen setzen und vor allem durch das Licht die Definition des Raumes bestimmen.

Das Profil der Schale richtet eine breite indirekte Beleuchtung in den Raum, und die Möglichkeit, mehrere Elemente untereinander zu kombinieren, gestaltet es, den Rhythmus der Lichtatmosphäre der Räume zu modellieren und diese an alle Erfordernisse anzupassen dank der Möglichkeit, ihre Performance zu Gunsten eines weicheren, jedoch immer noch funktionellen Lichts zu interpretieren.







SQUADRATA è un sistema di applique e segnapasso realizzato con una speciale miscela di cemento "alleggerito". Trattato con idrorepellenti per garantirne l'impermeabilità (IP65) è applicabile in interni ed esterni.

Pensato per integrarsi pienamente con l'architettura le diverse finiture naturali del cemento consentono successivi trattamenti e verniciature per renderne l'aspetto identico a quelli delle pareti su cui è applicato.

identico a quello della parete su cui è applicato. La sua forma troncoconica fa sì che diventi solo una piccola sporgenza nella continuità della parete, l'asimmetria permette di creare un ritmo di volumi, di chiari e scuri nella sua ricchezza e conseguenziale nella composizione di più moduli.

SQUADRATA est un système d'appliques et de marquages réalisé avec un mélange spécial de ciment "allégé". Traité avec des produits hydrofuges pour garantir son imperméabilité (IP65), on peut l'installer à l'intérieur et à l'extérieur.

Imperméabilité (IP-65), on peut l'installer à l'intérieur et à l'extérieur.

vernissages identiques à ceux du mur sur lequel le luminaire sera installé. Sa forme tronconique en fait une simple saillie dans la continuité du mur, l'asymétrie permet de créer un rythme de volumes, de notes claires et foncées, à répétition rythmée par la progression des modules.

A vertical stack of three rectangular frames. The top frame is light gray, the middle frame is dark gray, and the bottom frame is black. Each frame has a white square cutout in its center.

A modern, minimalist wall-mounted light fixture. It features a black frame and a white rectangular panel. The fixture is mounted on a plain, light-colored wall.

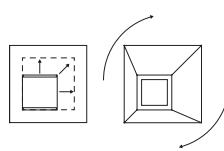
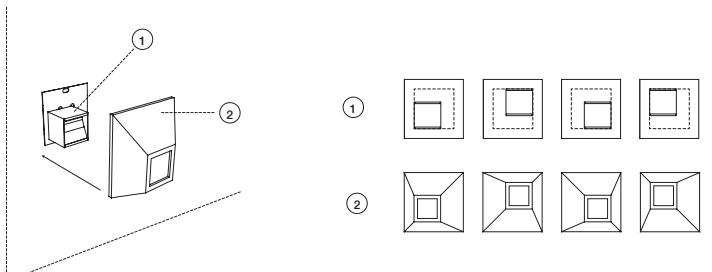
SQUADRATA is a wall lamp system thought out to fit well in the architecture. It is the result of a blend of lightened cement, treated with a waterrepellent finish to guarantee its impermeability (IP65) and both outdoors

and indoors use. The cement is natural grey; the surface finishing is neutral to allow further treatment or varnishing in case the user wants to make it match the wall on which it is applied. Thanks to a peculiar magnet fixing system of the cement body of the bearing plate applied to the wall and the regular geometry of the profile, the user has four different options to choose from to regulate the position of the body of the lamp at the time of the installation.

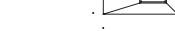
SQUADRATA ist ein System von Wand- und Bodenleuchten, das aus einer speziellen Leichtbetonmischung gefertigt wird. Die Elemente sind mit wasserabweisendem Finish beschichtet, sodass ihre Wasserdichtigkeit für den Einsatz (IP65) sowohl im Innen- als auch im Außenbereich garantiert ist.

auch im Außenbereich garantieren ist.
Die auf eine nahtlose Integration mit der Architektur ausgelegten unterschiedlichen natürlichen Finish-Varianten des Betons gestalten anschließende weitere Bearbeitung und Lackierung, damit ihr Aussehen an das der Wand, an der sie angebracht werden, angeglichen werden kann.

angeglichen werden kann. Die Kegelstumpfform sorgt dafür, dass die Leuchte nur wenig aus der Wand hervorragt und dank der asymmetrischen Form kann bei der Anordnung in Reihen oder bei der Komposition mehrerer Module ein Rhythmus von aufeinander folgenden Volumen, von Licht und Dunkel geschaffen werden.



material diffuser	material structure	colour	symbols	emission	
(6)	(26)	◇ ◇ ◆	IP65 F □	●	
lampung		η lamping Lm/W	R	η lamp Lm/W	
tot: 3,9W squadra 12: 3x1,3W LED CCT 4000K – Ra 85		80	60%	48	
		η lamping Lm	R	η lamp Lm	
		312	60%	187	
		η lamping Lm/W	R	η lamp Lm/W	
squadra 30: 1x22W (FBT)		64	54%	40	










Miyako è un sistema completo e diversificato per tipologie, performance di luce e varietà di colori disponibili, capace di creare scenografiche composizioni o di inserirsi con discrezione in qualsiasi ambiente garantendo ottime prestazioni luminose. La classica tipologia a luce concentrata, solitamente realizzata con sorgenti alogeniche, è reinterpretata attraverso la scelta di sorgenti innovative che minimizzano i consumi e ricercano una qualità della luce. Miyako può avere due corpi di lunghezza differente, 30 o 55 cm, ognuno dei quali si declina in sospensione o plafone con emissione solo diretta e parete con doppia emissione.

La versione a incasso dà la possibilità di scegliere diverse posizioni intermedie da completamente incassata a sporgente di 10 cm variandole in qualsiasi momento.

Miyako est un système complet et diversifié par typologies, performances de lumière et variétés de couleurs disponibles, en mesure de créer des compositions scénographiques ou de s'insérer avec discrétion dans n'importe quel milieu en garantissant de très bonnes performances de lumière.

La typologie classique à lumière concentrée, généralement réalisée avec des sources halogènes, est réinterprétée à travers le choix de sources innovatrices qui réduisent au minimum les consommations et qui recherchent une qualité de la lumière. Miyako peut avoir deux corps de longueur différente, 30 ou 55 cm, se déclinant chacun en suspension ou plafond avec émission directe seulement et paroi à double émission.

La version à encastrement permet de choisir différentes positions intermédiaires, de complètement encastree à saillante de 10 cm, modifiable à tout moment.

Miyako is a complete system with different solutions according to light performance and type, and to the various colours available: it can create spectacular effects or integrate gently in any environment, guaranteeing excellent light performance.

The traditional spot light solution, generally obtained by means of halogen light sources, is reinterpreted by choosing innovative light sources that reduce consumption to the minimum guaranteeing light quality.

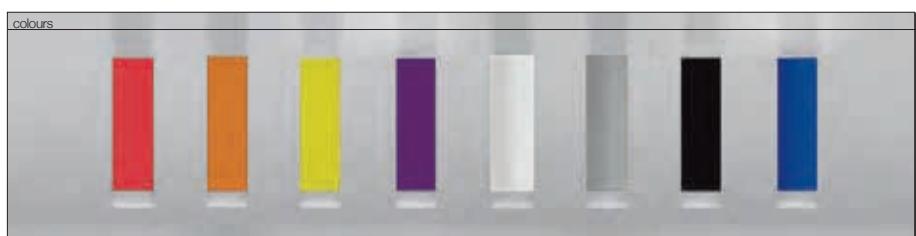
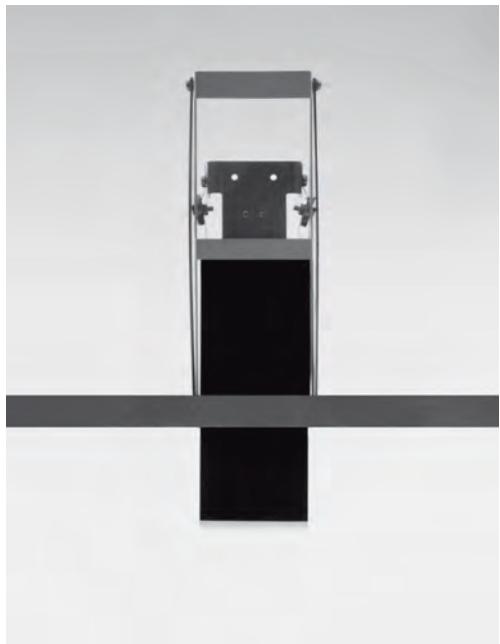
Myako is available in two different body sizes (30 or 55 cm of length), each one in the pendant or ceiling mounted version, and featuring either direct or double emission. The built-in version allows to select between several intermediate positions, from completely built-in to 10cm projection, changing the position at any time.

Miyako ist ein vollständiges System, dessen Ausführung sich durch Aufbau, Lichtleistung und verfügbare Farbenvielfalt unterscheidet. Es schafft bühnenhafte Kompositionen oder fügt sich diskret in jede Umgebung ein, wobei es ausgezeichnete beleuchtungstechnische Leistungen gewährleistet.

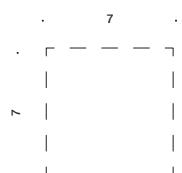
Die klassische Version mit konzentriertem Licht, die normalerweise mit Halogenlichtquellen realisiert wird, wurde durch die Wahl von innovativen Lichtquellen mit sehr geringem Verbrauch und hoher Lichteffizienz neu interpretiert.

Miyako kann zwei verschiedene lange Körper haben: 30 oder 55 cm. Jeder dieser Körper ist als Hänge- oder Deckenausführung mit direkter Lichtabgabe und als Wandausführung

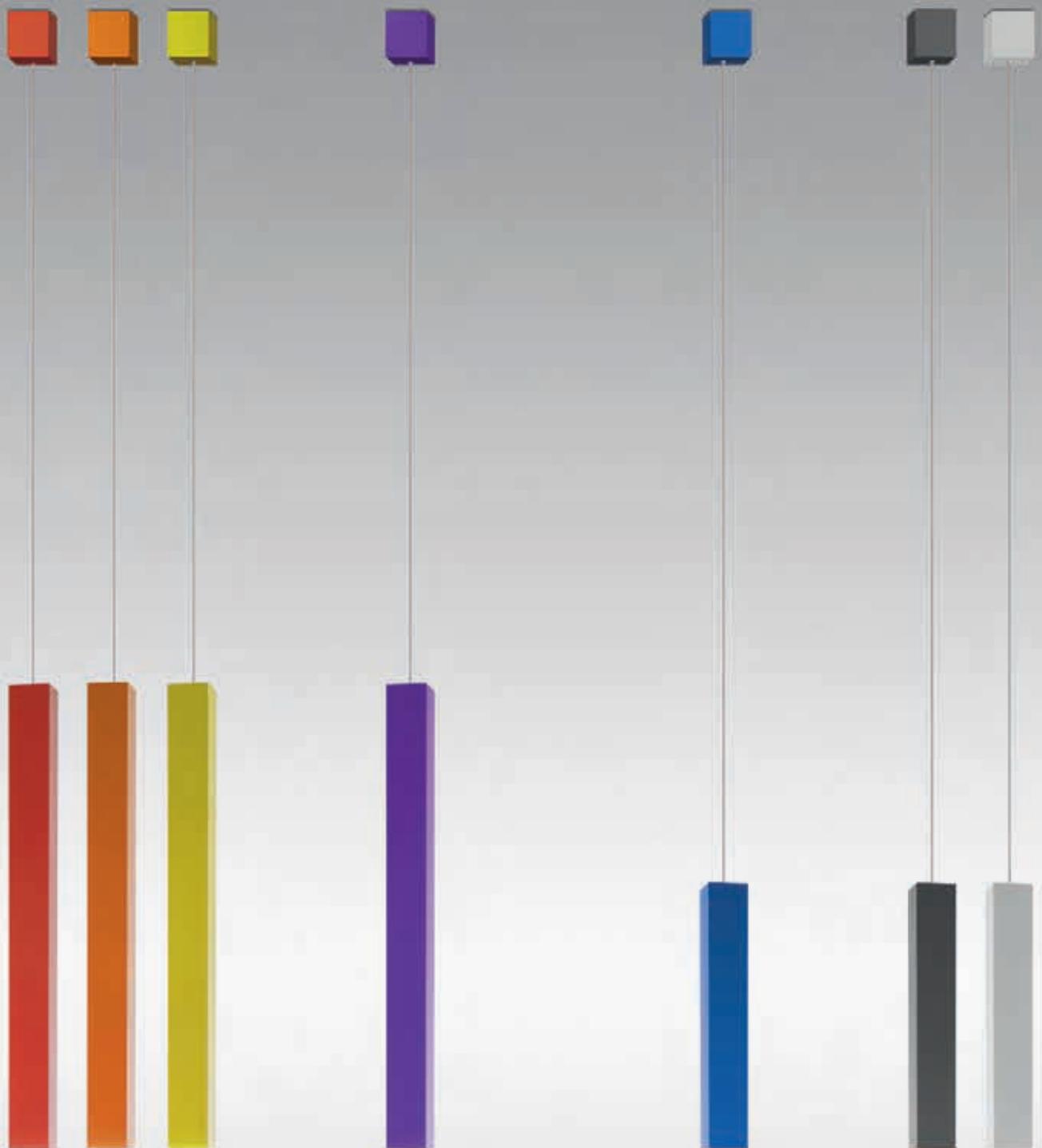
Die Einbauversion ermöglicht die Wahl unterschiedlicher Zwischenpositionen, um z.B. eine Verstärkung mit einer Einstellungsstufe und die Wahl mit doppelter Emission erhältlich.



installation



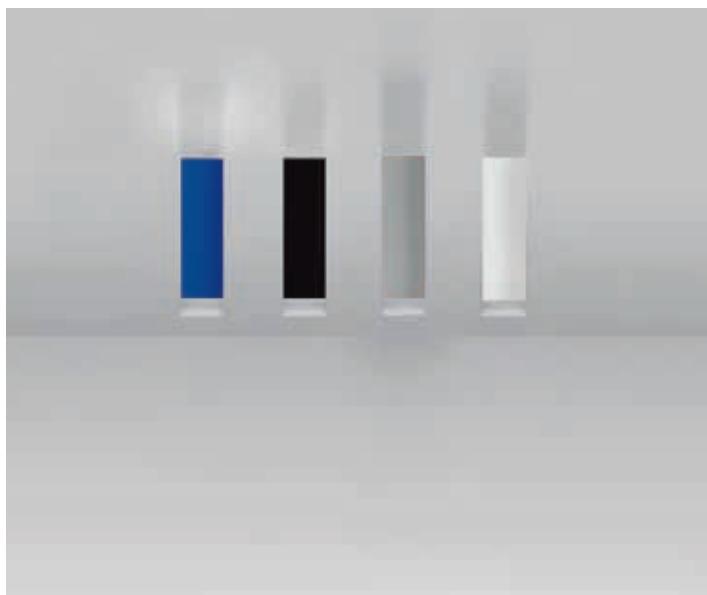
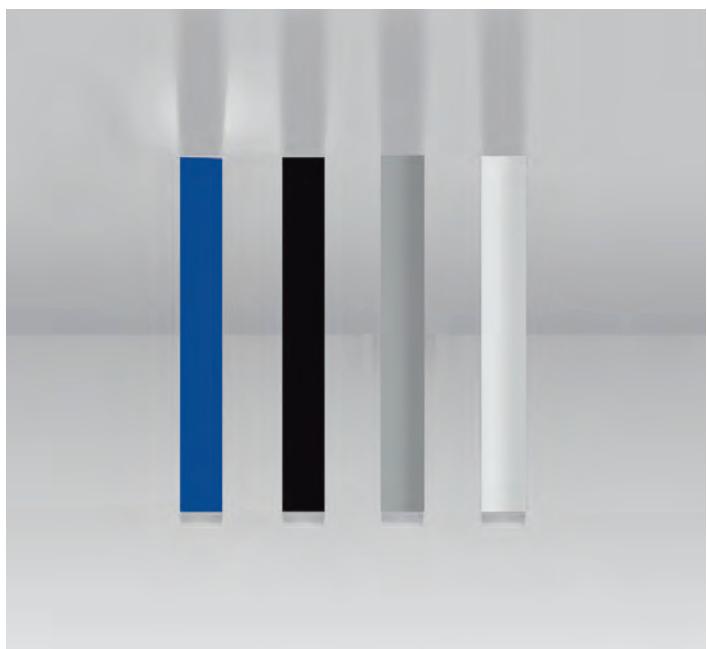
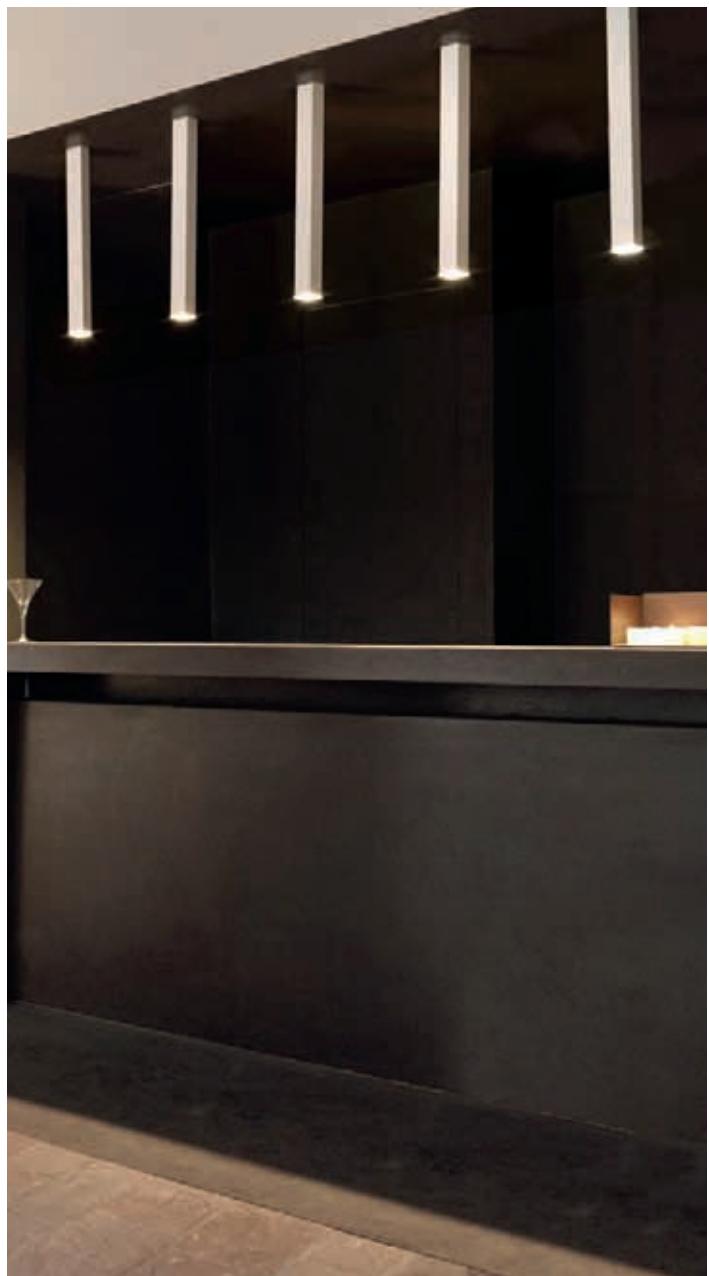
MIYAKO 55 / MIYAKO 30 sospensione - Studio 63 2009



material diffuser	material structure	colour	symbols	emission
(12 / 13)	(20)		IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
tot: 3,9W LED LED: 3x1,3W LED Tc 3200K - Ra 80		70	88%	62
		η lamp Lm	R	η lamp Lm
		273	88%	242
lamp		η lamp Lm/W	R	η lamp Lm/W
FLUO: 18W (G24q-2) FSQ		66	44%	30
max 200 55.5				
56				
5				
30 . max 200 5.5				
5				
18W (G24q-2)				
180				
140 100 60 20				
90				
0				
max 156.93 cd/klm				
3x1,3W LED				
180				
3000 2000 1000				
90				
0				
max 2810 cd/klm				
p. 228				



MIYAKO 30 / MIYAKO 55 soffitto - Studio 63 2009

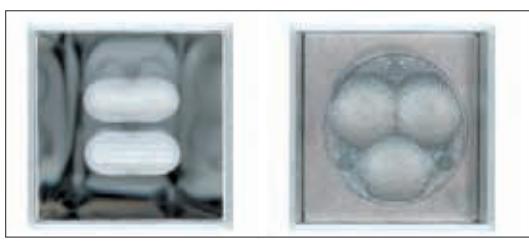


material diffuser	material structure	colour	symbols	emission
(12 / 13)	(20)		IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
tot: 3,9 LED: 3x1,3W LED CCT 3200K – Ra 80		70	88%	62
		η total lamping Lm	R	η total lamp Lm
		210	88%	186
lamp		η lamping Lm/W	R	η lamp Lm/W
FLUO: 18W (G24q-2) FSQ		66	44%	30

18W (G24q-2)
max 156.93 cd/km

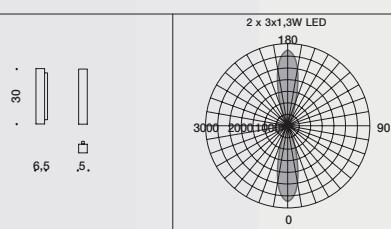
3x1,3W LED
max 321.6 cd/km

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material diffuser	material structure	colour	symbols	emission
(12) / (13)	(20)		IP20	
lamping		n lamp Lm/W	R	n lamp Lm/W
tot: 7,8 W		70	88%	62
LED: 2 x 3x1,3W LED		n lamp Lm	R	n lamp Lm
CCT 3200K - Ra 80		546	88%	483,5



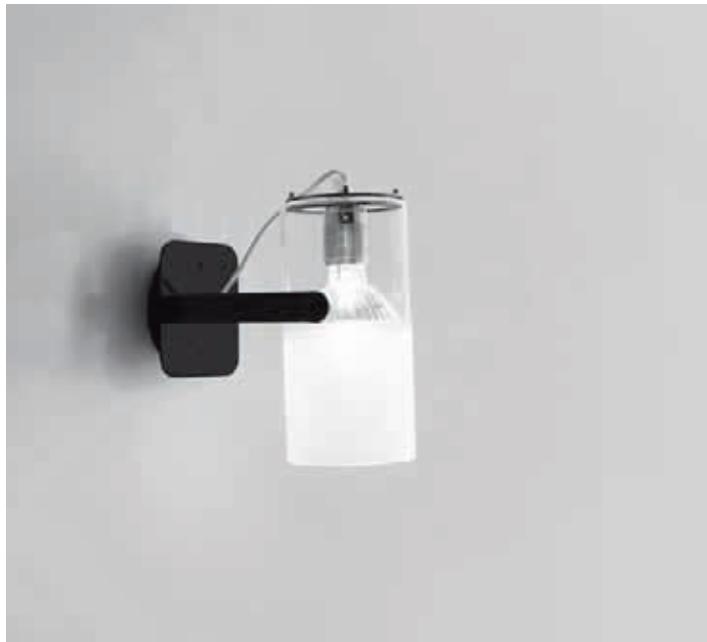
p. 228



material diffuser	material structure	colour	symbols	emission	
(12) / (13)	(20)		IP20		
lamp		η lamp Lm/W	R	η lamp Lm/W	
tot: 7,8 W		70	88%	62	
LED: 2 x 3x1,3W LED					
CCT 3200K - Ra 80		η lamp Lm	R	η lamp Lm	
		546	88%	483,5	
lamp		η lamp Lm/W	R	η lamp Lm/W	
FLUO: 2 x 18W (G24q-2) FSQ		66	44%	30	





PINBALL WIZARD Pinball Wizard è un sistema assolutamente versatile di faretti che con essenzialità estrema garantisce ottime performance dal punto di vista della flessibilità di utilizzo e del controllo della luce.

La sabbiatura del vetro ne caratterizza con eleganza l'aspetto ma soprattutto scherma lateralmente la sorgente evitando l'abbagliamento e rendendo più omogeneo il fascio di luce.

Lo snodo ne garantisce la rotazione ed inclinazione, l'attacco E27 permette l'utilizzo di una ampissima gamma di sorgenti tradizionali o di nuova generazione a risparmio energetico.

PINBALL WIZARD est un système de spots polyvalent et essentiel qui garantit de très bonnes performances en termes de flexibilité d'utilisation et de contrôle de la lumière. Le sablage du verre, qui caractérise avec élégance l'aspect du spot, voile la source sur le côté, ce qui évite l'éblouissement et rend plus homogène le faisceau de lumière. L'articulation garantit la rotation et l'inclinaison du luminaire, l'attache E27 permet d'utiliser une très large gamme de sources traditionnelles ou de nouvelle génération à économie d'énergie.

PINBALL WIZARD is an absolutely versatile set of spotlights: it is a basic and plain product that guarantees excellent performance in the flexibility, use and light monitoring. The elegant look of Pinball Wizard is highly characteristic of the sandblast of the glass, due to technical reasons. When using PAR lamps the dazzling effect is avoided. The light flows more homogeneously and precisely and a small part of the light creates a lateral diffusing effect, a luminescent sign of its presence. When using other sources that are not supplied with their own optical system the sandblast diffuses the light and screens the source avoiding the dazzling effect.

PINBALL WIZARD ist ein absolut vielseitiges Strahlersystem, das mit extremer Essentialität optimale Leistung im Hinblick auf flexiblen Einsatz und Steuerung der Beleuchtung bietet.

Das Glas erhält durch Sandstrahlen sein elegantes Aussehen, vor allem wird jedoch die Lichtquelle seitlich abgeschirmt, sodass sie nicht blenden kann und der Lichtstrahl gleichmäßiger gestaltet wird.

Ein Gelenk sorgt für Drehbarkeit und Neigung, die E27-Fassung gestattet die Verwendung einer breiten Palette sowohl traditioneller Glühbirnen als auch moderner Energiesparlampen.

material diffuser	material structure	colour	symbols	emission
(17)	(25) / (26)	◆ ◆	IP20	
lamping				
15W (E27) FBR Ø95 mm			spot 107° - 110°	
max 75W (E27) HAGS SPOT			spot 10° - 30°	
15W (E27) LED SPOT			spot 24°	
track: multiadaptor 220 - 240 V for the three conductor surface track (L / N /)				





environmental
LIGHT

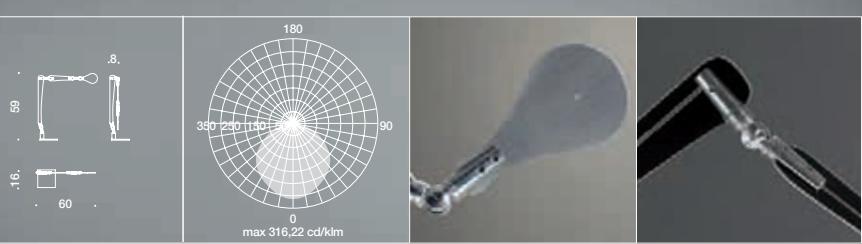






INA - Carlotta de Bevilacqua 2007

material diffuser	material structure	colour	symbols	emission
	(22) + ○	◆ ◇	IP20 ⚏ ◊	●
lamping		η lamping Lm/W	R	η lamp Lm/W
Tot: 8,5W		60	100%	60
85x0,1W LED		η lamping Lm		η lamp Lm
CCT 3000 K - Ra 80		510	100%	510
on/off touch dimming control system				



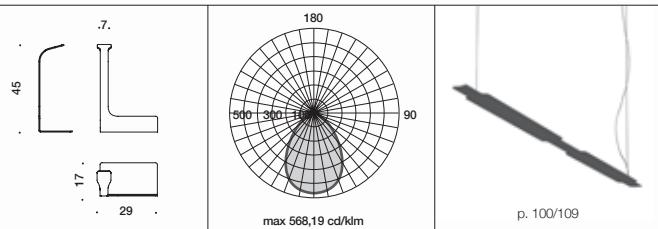




100% - Ross Lovegrove 2010

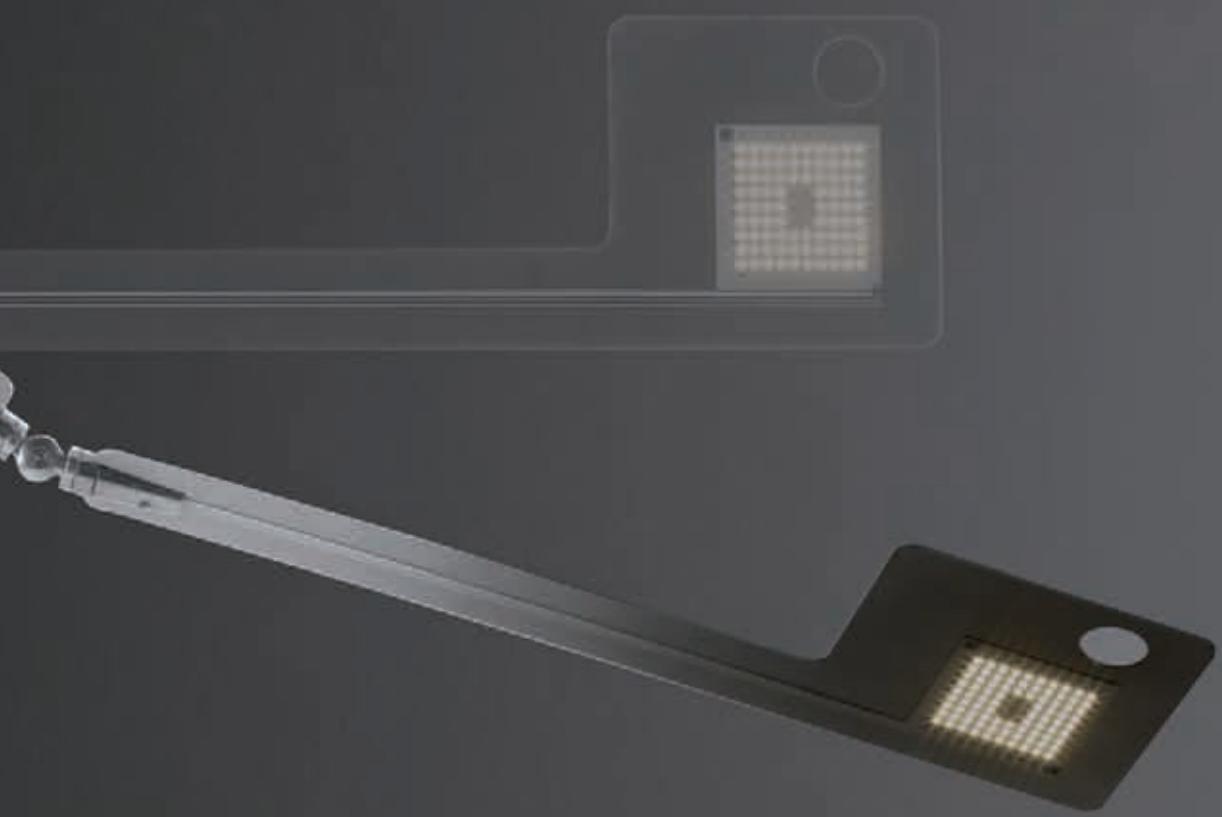
material diffuser	material structure	colour	symbols	emission
	(33) + (20)	◇ ◇ ◆	IP20 F ◊	
lamping		η lamping Lm/W	R	η lamp Lm/W
Tot: 3,9W 3x1,3W LED CCT 3000 K - Ra 80		70	99%	68
		η lamping Lm		η lamp Lm
		273		265,2

PATENT PENDING MI2010A000634
on/off touch dimming control system



UNA tavolo - *Carlotta de Bevilacqua 2009*

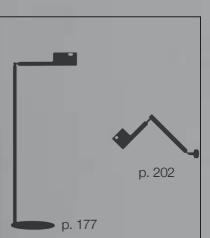
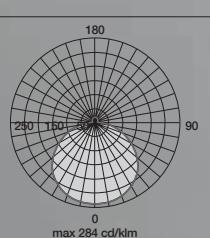
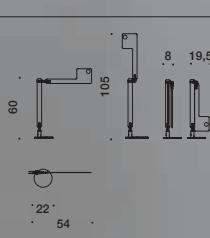






UNA tavolo - Carlotta de Bevilacqua 2009

material diffuser	material structure	colour	symbols	emission
	(22) + (36)	◆	IP20 F R	◆
lamping		η lamping Lm/W	R	η lamp Lm/W
Tot: 9W		60	100%	60
direct: 8x0,1W LED				
indirect: 6x0,1W LED				
CCT 3000K - Ra 80		540	100%	540
on/off touch dimming control system				

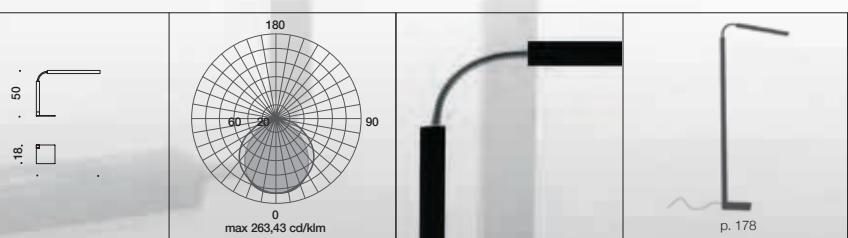






ELEUTHERA - Massimo Mariani 2007

material diffuser	material structure	colour	symbols	emission
(19)	(20) + (26)	◇◆◆	IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
11W (W4,3x8,5d) FM	68	69%	47	

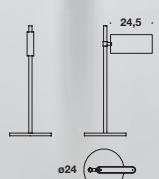




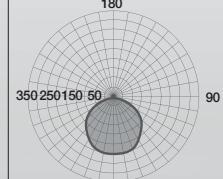


TWO FLAGS tavolo - Ernesto Gismondi, Neil Poulton 2011

material diffuser	material structure	colour	symbols	emission			
(16)	(34) / (20)	* ◇◆◇	IP20 F □	●●			
lamping		η lamping Lm/W	R	η lamp Lm/W			
LED: 1x12,5W LED CCT 3000K - Ra ≤ 80	87	85%		74			
	η lamping Lm	R		η lamp Lm			
	1087,5			925			



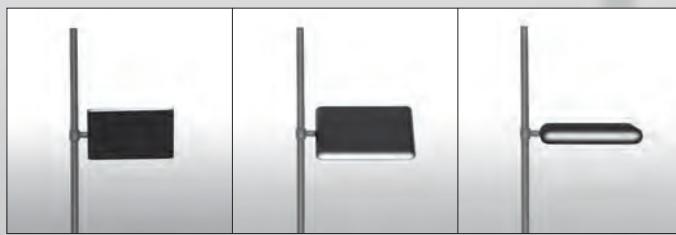
Φ24
24,5



180
350 250 150 50 90
0
max 255 cd/klm



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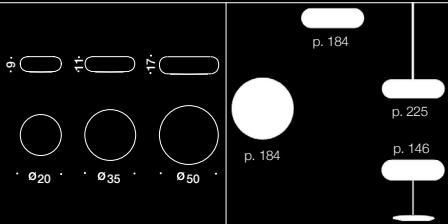
ITKA 20 / ITKA 35 tavolo - Naoto Fukasawa 2008 - 2010

material diffuser	material structure	colour	symbols	emission		Itka 35	Bincan Energy Desk	
(15)	(26)	◊	IP20 ▼ □	●				
lamp		η lamp Lm/W	R	η lamp Lm/W				
itka 35: 3x10W (E14) FBT	58	60%	35					
itka 20: 1x9W (Gx53) FB	40	60%	24					



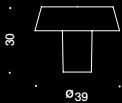
ITKA 20 / ITKA 35 / ITKA 50 appoggio - Naoto Fukasawa 2008-2010

material diffuser	material structure	colour	symbols	emission	
(15)	(26)	◆	IP20		
lamp		η lamp Lm/W	R	η lamp Lm/W	
itka 50: 3x22W (E27) FBT	65	61%	40		
itka 35: 3x10W (E14) FBT	58	60%	35		
itka 20 fluo: 1x9W (Gx53) FB	40	60%	24		



AMAMI - Naoto Fukasawa 2005

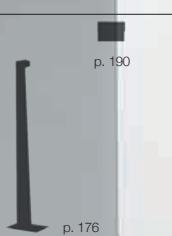
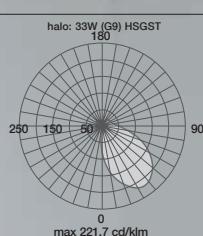
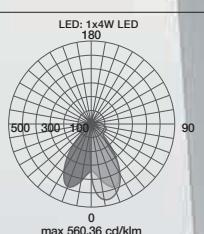
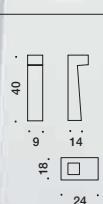
material diffuser	material structure	colour	symbols	emission
8	8	◆	IP20 ▽ □	○
lamping		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG		58	63%	37
max 70W (E27) HGS				





ARU tavolo - Alberto Zecchini 2005

material diffuser	material structure	colour	symbols	emission
(27)	(27)	◆ ◆	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
LED dimmable: 1x4W LED CCT 3000K - Ra ≥ 80		72,5	80%	58
		η lamp Lm/W	R	η lamp Lm/W
		290	80%	232
		η lamp Lm	R	η lamp Lm
halo: 33W (G9) HSGST		14	65%	9

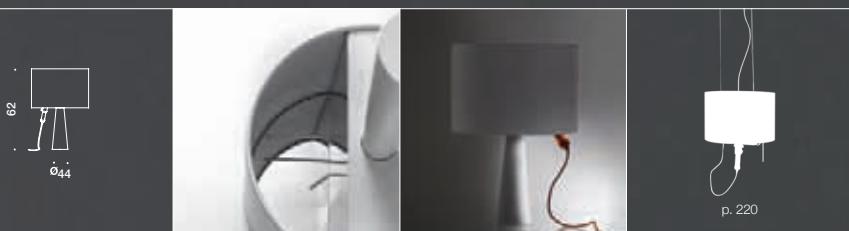




Up	Halo	LED	Optional
			

CAU - Martí Guixé 2008

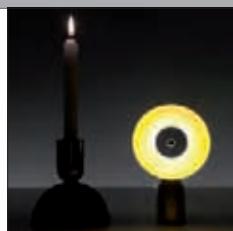
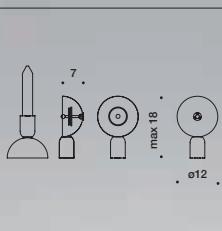
material diffuser	material structure	colour	symbols	emission
(20)	(20) + (24)	◆ ♦	IP20 F □	●
lamping		η lamp Lm/W	R	η lamp Lm/W
18W (E27) FBT	61	variable	variable	





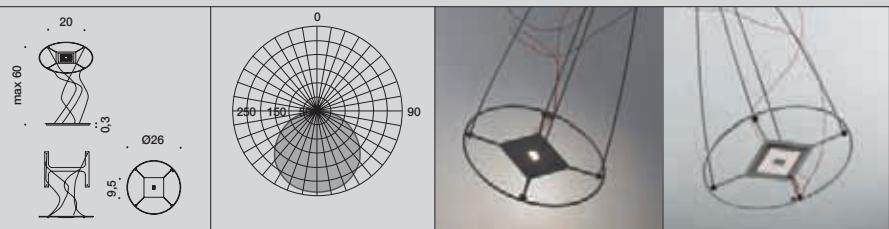
FLAMA LAMP - Martí Guixé

material diffuser	material structure	colour	symbols	emission
(26)	(25)	◆◆◆◆◆	IP20	III
lamp				
1,2 W : 5 x 0,24 W LED				



FILMOGRAFICA tavolo - Martí Guixé

material diffuser	material structure	colour	symbols	emission
	(26) + (19)	◆	IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
tot: 9 W LED	60	100%	60	
direct : 84 x 0,1 W LED				
indirect : 6 x 0,1 W LED				
CCT 3000K – Ra 80	540	100%	540	



BALI Bruno Munari 1958

material diffuser	material structure	colour	symbols	emission
(47) + (28) / (29)	(1)	◆	IP20 F □	○
lamping		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG	58	81%	47	
max 60W (E27) IAA / 42W (E27) HSGSA				



EVOLUTE 39 / EVOLUTE 56 tavolo - Matali Crasset 2004

material diffuser	material structure	colour	symbols	emission
8	(25)	◇	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
evolute 39: 20W (E27) FBG	58	69%	40	
max 70W (E27) HGS				
evolute 56: 30W (E27) FBT	64	75%	48	
max 105W (E27) HGS				

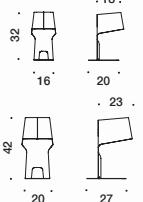
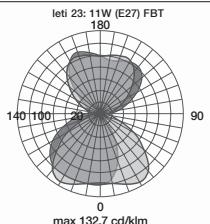
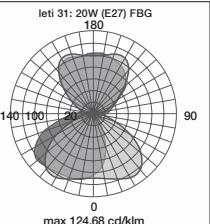


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LETI 23 / LETI 31 - Matteo Ragni 2007

material diffuser	material structure	colour	symbols	emission
(27)	(27)	◇◆◆	IP20 ▽ □	●
lamp		η lamp Lm/W	◇ R	η lamp Lm/W
leti 23: 11W (E14) FBT	60	75%	45	
max 42W (E14) HSGSP				
leti 31: 20W (E27) FBG	58	75%	43	
max 105W (E27) HGSFA				

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XIAO TET tavolo - *Carlotta de Bevilacqua, Laura Pessoni 2010*

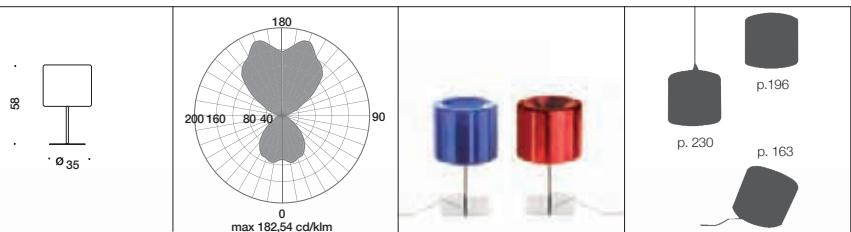
material diffuser	material structure	colour	symbols	emission	
(20) / 34	(26)		IP20		
lamp		η lamp Lm/W	◇R	η lamp Lm/W	
Tot: 5W		80	85%	68	
LED: direct: 4x1W LED + indirect: 1W LED CCT 3000K - Ra ≥ 80		η lamp Lm	◇R	η lamp Lm	
		400	85%	340	
lamp		η lamp Lm/W	◇R	η lamp Lm/W	
HALO: 60W (G9) HSGST	15	85%	8		





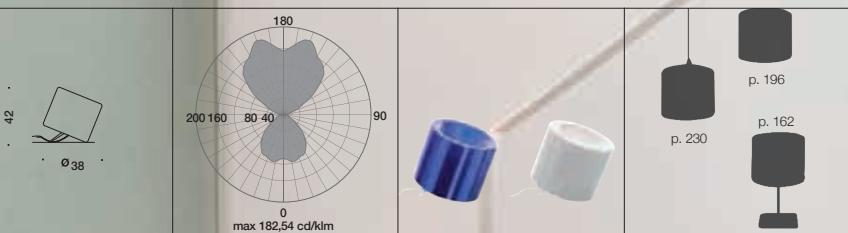
TET tavolo - Carlotta de Bevilacqua 2005

material diffuser	material structure	colour	symbols	emission
(20)	(21)	◇ ◆ ◇	IP20 F □	● ●
lamping		η lamp Lm/W	◇ R	η lamp Lm/W
20W (E27) FBG		58	70%	41
max 70W (E27) HGS				



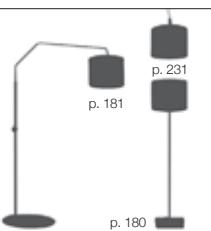
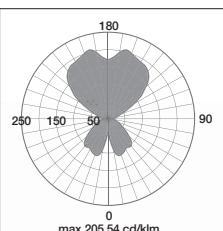
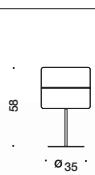
TET appoggio - Carlotta de Bevilacqua 2005

material diffuser	material structure	colour	symbols	emission
(20)	(21)	◆ ♦ ◆	IP20 F □	●
lamp		η lamp Lm/W	◆ R	η lamp Lm/W
20W (E27) FBG		58	70%	41
max 70W (E27) HSGSA				



TET TAN tavolo - *Carlotta de Bevilacqua 2006*

material diffuser	material structure	colour	symbols	emission	
(20) + (4) / (10)	(21)		IP20 ▼ □		
lamping		η lamping Lm/W	◇ R	η lamp Lm/W	
20W (E27) FBG		58	68%	38	
max 70W (E27) HSGSA					



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HBM 52 / HBM 75 appoggio - Carlotta de Bevilacqua 2006

material diffuser	material structure	colour	symbols	emission	
(7) + (11)	(23)	◆	IP20		
lamping		η lamp Lm/W	R	η lamp Lm/W	
2x20W (E27) FBG		58	50%	29	
2x max 70W (E27) HSGSA					

37 52 75 p. 214



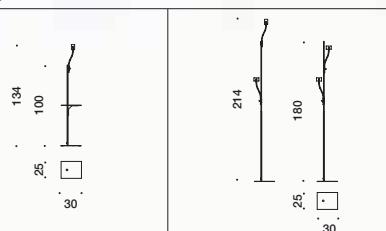
BRAZIL tavolo - *Alberto Zecchini 2009*

material diffuser	material structure	colour	symbols	emission
(20) + (26)	◆	IP20 ▼ □	●	
lamp				
20W (E27) FBG				spot 80°



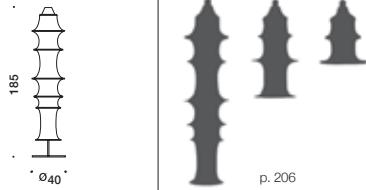
BRAZIL terra / lettura - *Alberto Zecchini 2008 - 2010*

material diffuser	material structure	colour	symbols	emission
(20) + (26)	◆	IP20 ▼ □	●	
lamp				
2x20W (E27) FBG		spot 80°		



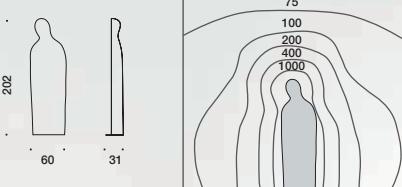
FALKLAND terra

material diffuser	material structure	colour	symbols	emission
(3) + (19)	(26)	◊	IP20 ▼ □	○
lamping		η lamping Lm/W	R	η lamp Lm/W
30W (E27) FBT	64	56%	36	
max 52W (E27) HSGSA				



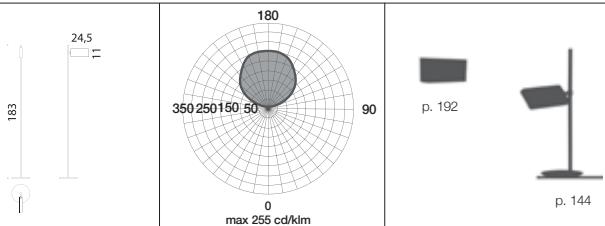
DULCINEA - Mimmo Paladino 2007

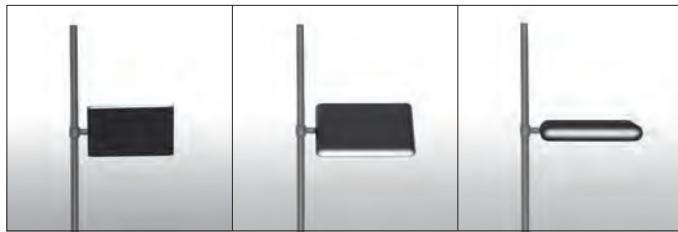
material diffuser	material structure	colour	symbols	emission	
(6) + (23)	(6) + (26)	◇	IP20 ▼ □	●	
lamp		η lamp Lm/W	R	η lamp Lm/W	
2x80W (G5) FDH + 36W (2G10) FSSH	77	65%	50		



TWO FLAGS terra - Ernesto Gismondi, Neil Poulton 2011

material diffuser	material structure	colour	symbols	emission			
(16)	(34) / (20)	* ◇◆◇	IP20 F □	●			
lamping		η lamping Lm/W	R	η lamp Lm/W			
LED: 1x25,5W	87	85%	74				
CCT 3000K - Ra ≤ 80		η lamping Lm	R	η lamp Lm			
	2218,5	85%	1887				

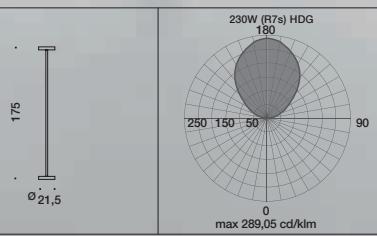






BINCAN LIGHT - Naoto Fukasawa 2005

material diffuser	material structure	colour	symbols	emission
(23)	(26)	◆ ◆ ◆	IP20 ▽ □	●
lamping		η lamping Lm/W	R	η lamp Lm/W
230W (R7s) HDG	22	73%	16	





ITKA terra / ITKA terra small / ITKA terra small 20 - Naoto Fukasawa

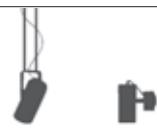
material diffuser	material structure	colour	symbols	emission
(15)	(26)	◆◆◆◆◆	IP20	(•)
lamping		η lamping Lm/W	R	η lamp Lm/W
ITKA 20 : 1 x 9 W (Gx53) FB	40	60%	24	
ITKA 35 : 3 x 10 W (E14) FBT	58	60%	35	



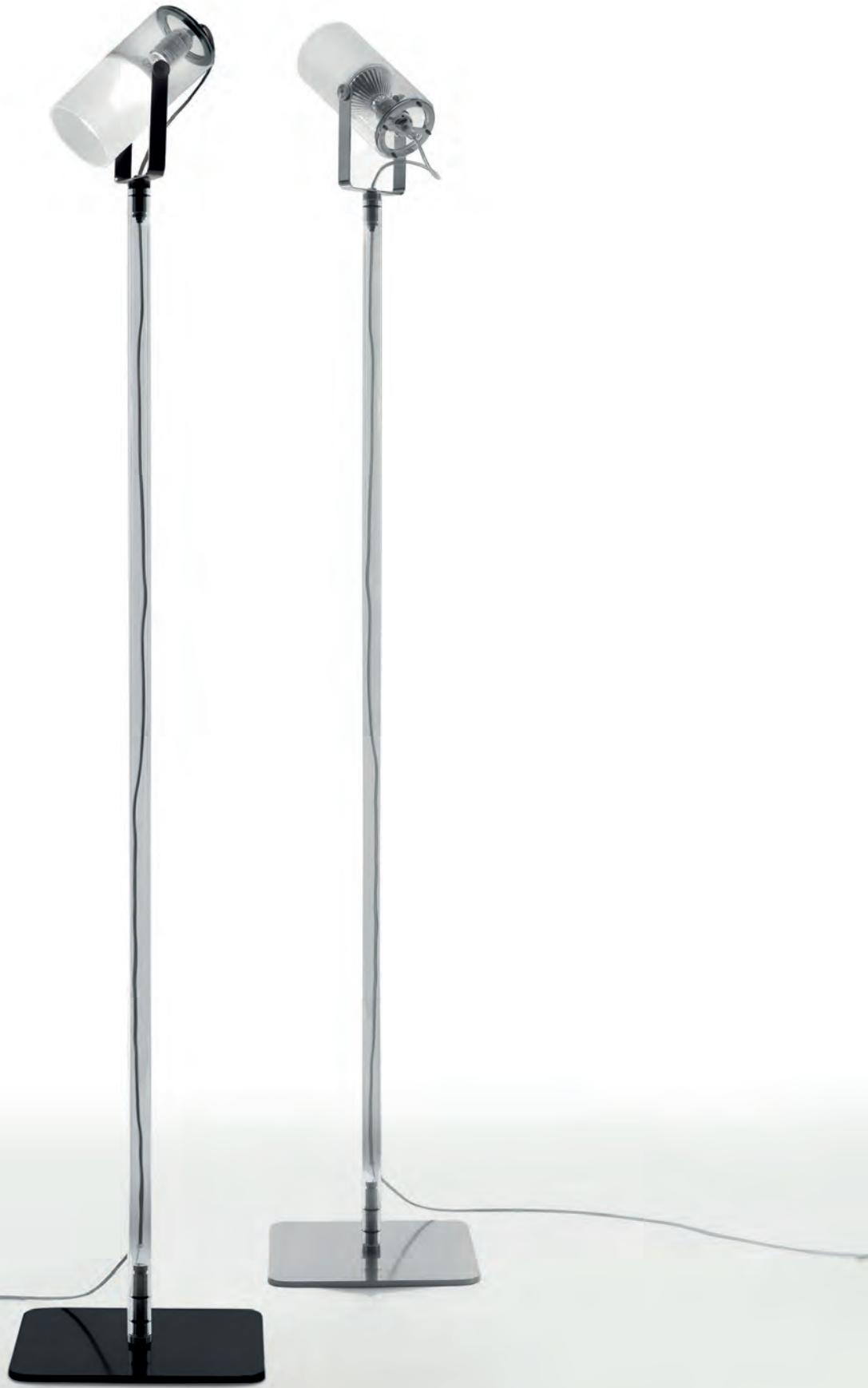
PINBALL WIZARD terra - Carlotta de Bevilacqua 2007

material diffuser	material structure	colour	symbols	emission	
(17)	(16) + (26)	◆ ◇ ♦	IP20 ▼ □		
lamp					
15W (E27) FBR Ø95 mm		spot 107° - 110°			
max 75W (E27) HAGS SPOT		spot 10° - 30°			
15W (E27) LED SPOT		spot 24°			

Ø11
200
32



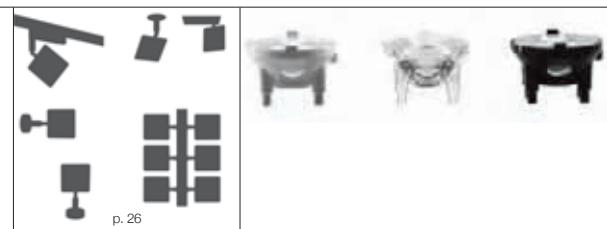
p. 128



UNA PRO terra - *Carlotta de Bevilacqua 2011*

material diffuser	material structure	colour	symbols	emission
	(16) + (22) + (26)	◆ ◆	IP20	II
lamping		lens		
16 LED 16,5W 3700K		6°	20°	38°
*photometrics pag. 34				
PATENT PENDING MI2010A000185				

188
15
25



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ARU terra - Alberto Zecchini 2005

material diffuser	material structure	colour	symbols	emission
(27)	(27)	◆ ◇	IP20 ▽ □	● ●
lamp		η lamp Lm/W	R	η lamp Lm/W
fluo: 42W (Gx24q-5) FSMH	76	55%	42	
halo: max 205W (B15d) HSGST	20	50%	10	

10
28

13,5
38

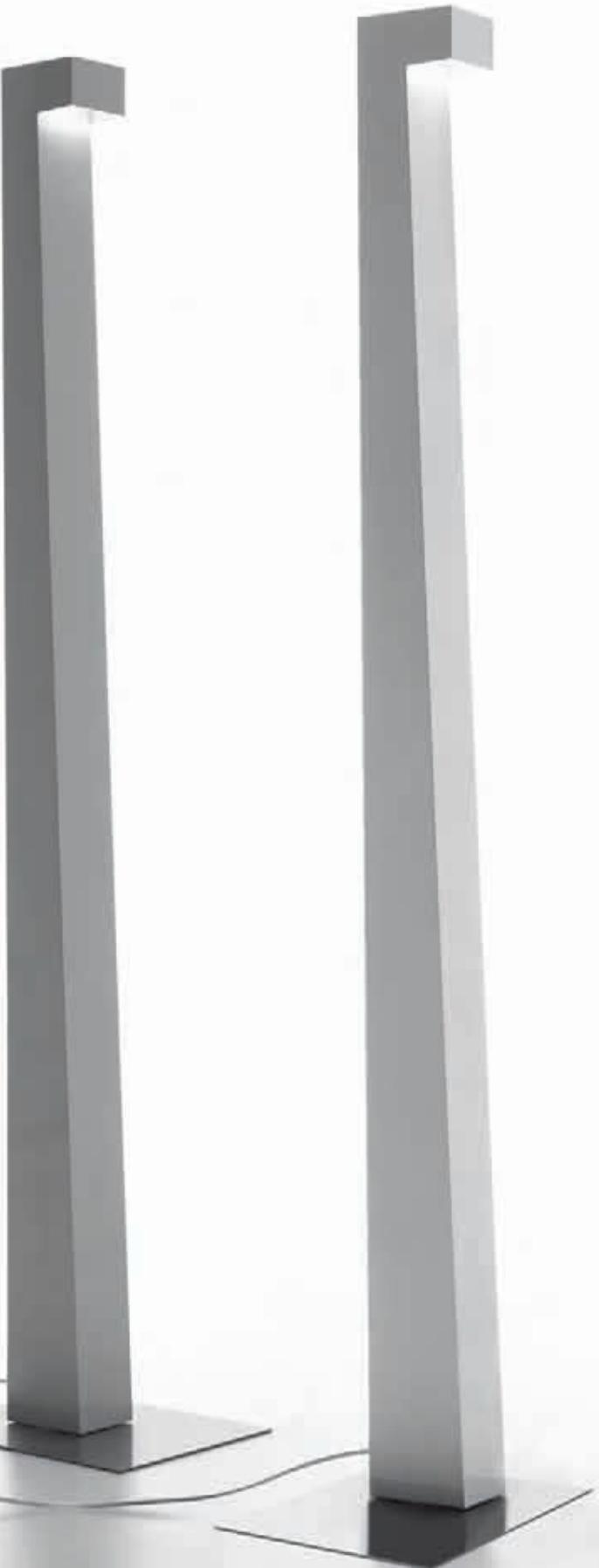
fluo: 57W (Gx24q-5) FSMH

max 194,6 cd/klm

halo: max 205W (B15d) HSGST

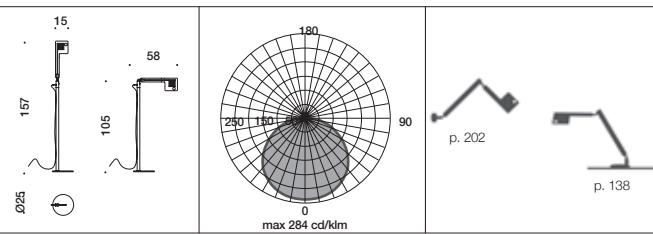
max 197,55 cd/klm

p. 150



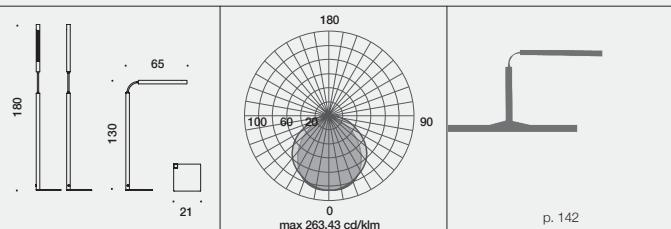
UNA lettura - Carlotta de Bevilacqua 2009

material diffuser	material structure	colour	symbols	emission
(22) + (36)	◆	IP20	IV	●
lamp	η lamping Lm/W	R	η lamp Lm/W	
Tot: 9W direct: 8x0,1W LED indirect: 6x0,1W LED CCT 3000K - Ra 80	60 η lamping Lm 540	100% R 100%	60 η lamp Lm 540	
on/off touch dimming control system				



ELEUTHERA lettura - Massimo Mariani 2007

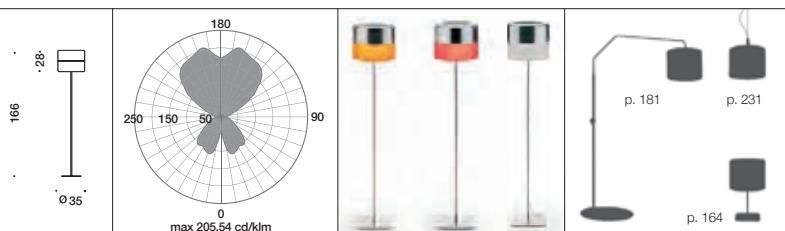
material diffuser	material structure	colour	symbols	emission
(19)	(20) + (26)	◇ ♦	IP20 ▼ □	
lamping		η lamp Lm/W	R	η lamp Lm/W
11W (W4,3x8,5d) FM		58	74%	43





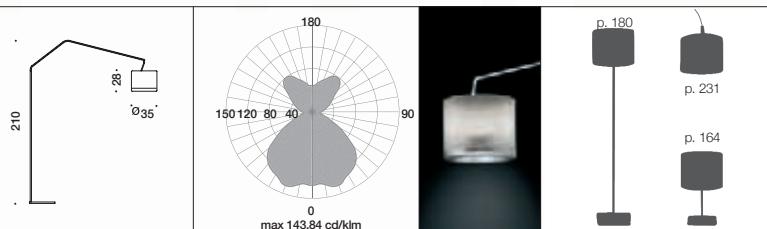
TET TAN terra - *Carlotta de Bevilacqua 2006*

material diffuser	material structure	colour	symbols	emission	
(20) + (4) / (10)	(26)		IP20 ▽ R		
lamp		η lamping Lm/W	◇ R	η lamp Lm/W	
20W (E27) FBG		58	66%	38	
max 70W (E27) HSGSA					



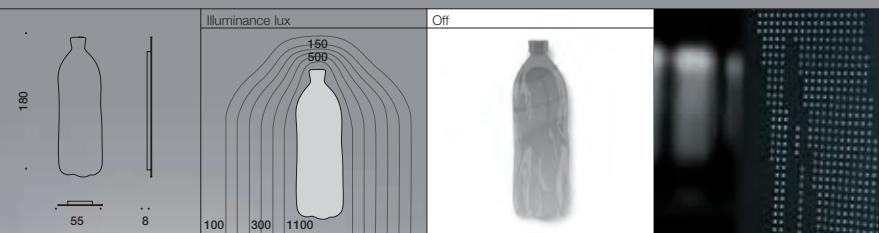
TET TAN braccio - Carlotta de Bevilacqua 2006

material diffuser	material structure	colour	symbols	emission
(20) + (4) / (10)	(26)		IP20 ▽ R	
lamp			η lamp Lm/W	
20W (E27) FBG	58	74%	43	
max 70W (E27) HSGSA				



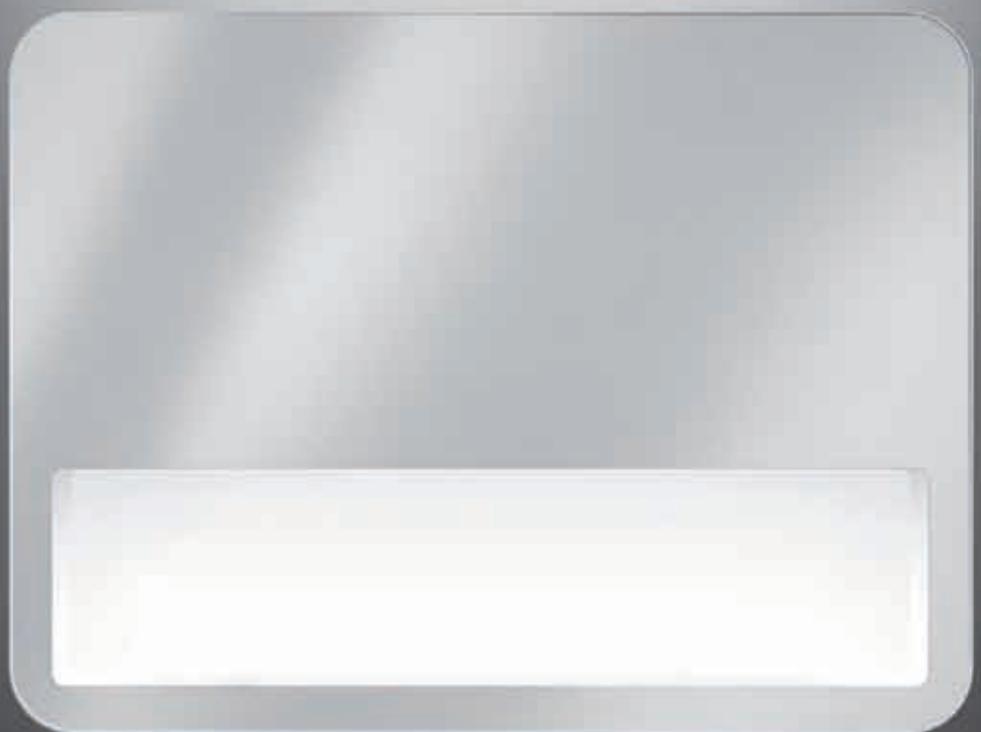
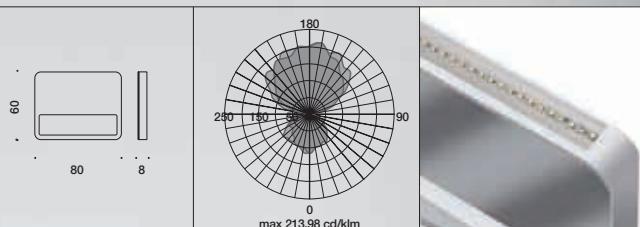
WATER MIRROR - Ross Lovegrove 2011

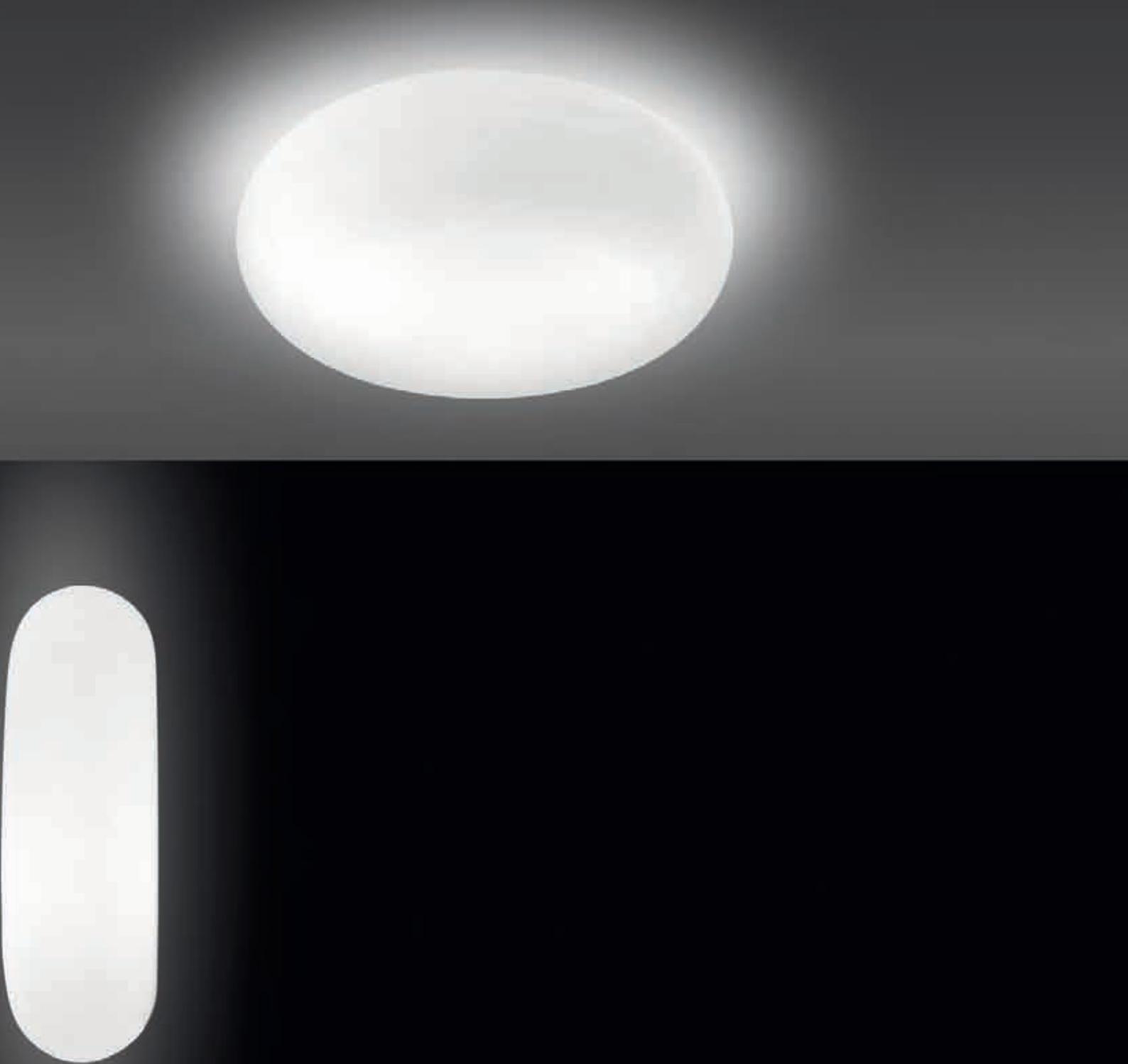
material diffuser	material structure	colour	symbols	emission
	(26) + (43)	◆	IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
2x80 (G5) FDH		77	47%	36



MAKE UP LIGHT - James Irvine 2010

material diffuser	material structure	colour	symbols	emission
	(○ + 43 + 6)	◆	IP65 F □	●
lamping		η lamping Lm/W	R	η lamp Lm/W
tot: 62W		97,5	68%	56
direct: tot 42W LED		η lamping Lm	R	η lamp Lm
indirect: tot 20W LED		6045	68%	2472





ITKA 20 IP/ ITKA 35 IP / ITKA 50 parete / soffitto - Naoto Fukasawa 2008 - 2010

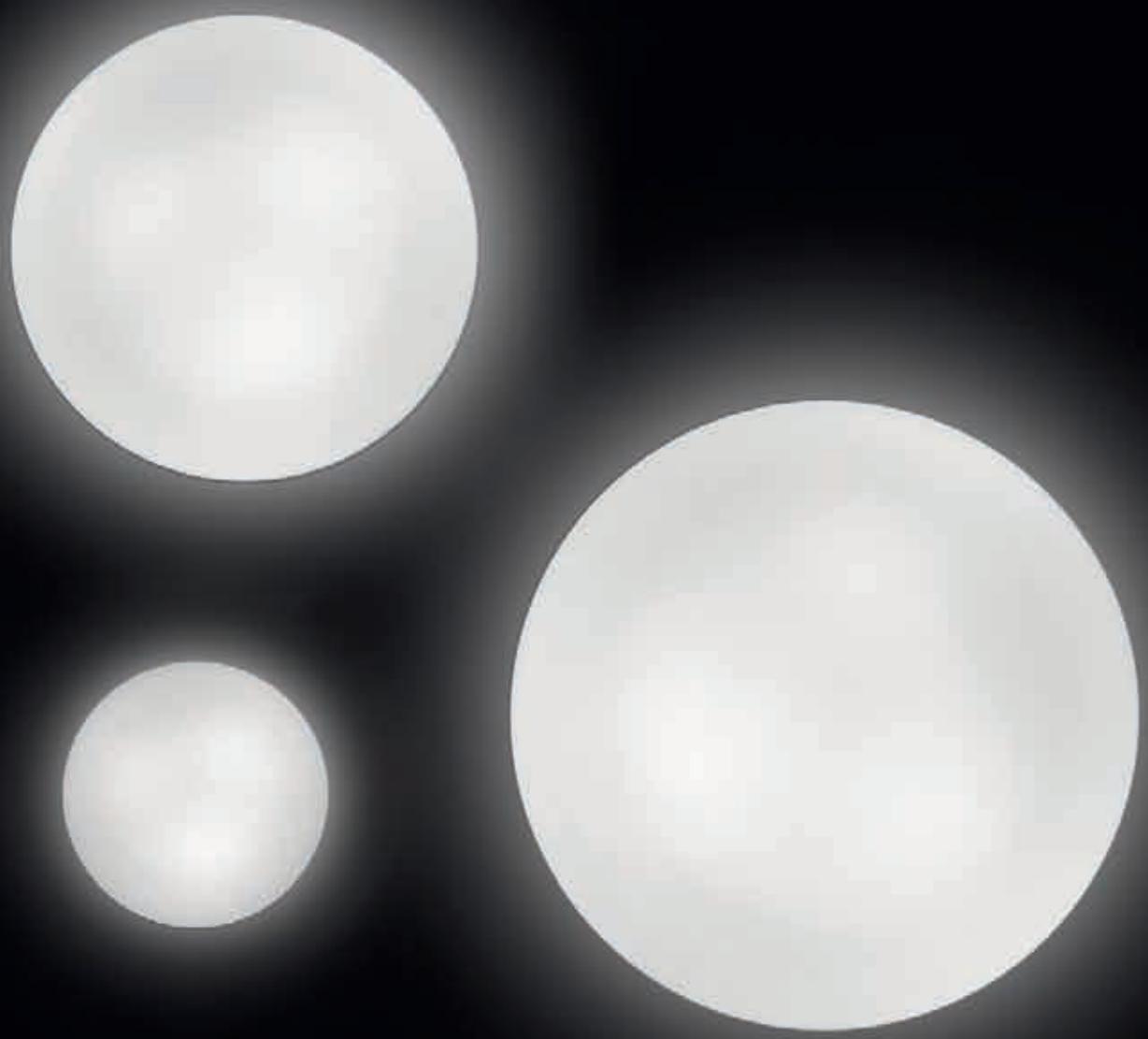
material diffuser	material structure	colour	symbols	emission			
(15)	(26)	◆	IP20 IP65*	●			
lamp		1 lamp Lm/W	R	1 lamp Lm/W			
itka 50: 3x22W (E27) FBT	65	61%	40				
*itka 35: 3x10W (E14) FBT	58	60%	35				
*itka 20 fluo: 1x9W (Gx53) FB	40	60%	24				

Material diffuser: (15) (26). Material structure: lamp, itka 50: 3x22W (E27) FBT, *itka 35: 3x10W (E14) FBT, *itka 20 fluo: 1x9W (Gx53) FB. Colour: ◆. Symbols: IP20, IP65*. Emission: ●. Lamp emission: 1 lamp Lm/W. Itka 50 emission: 61%, 40. Itka 35 emission: 60%, 35. Itka 20 fluo emission: 60%, 24.

Dimensions: Ø20, Ø35, Ø50.

Photographs: A circular diffuser with internal patterns, a small oval diffuser, and two larger oval diffusers.

References: p. 225, p. 146, p. 148.











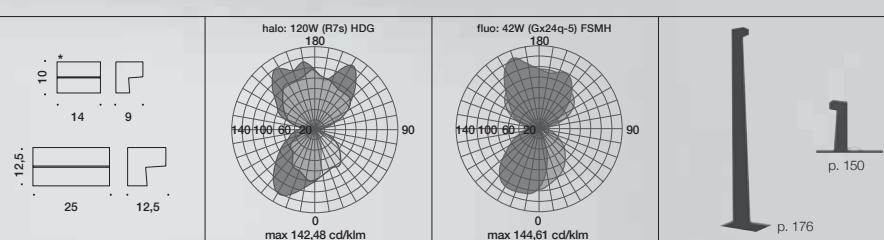
3.0 - Stefano Boeri 2011

material diffuser	material structure	colour	symbols	emission
(9)	(19) / (20)	◆ ◆ ◆	IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
tot: 37,44		141	85%	120
WHITE: 37W: 288X0,13W LED		η lamping Lm	R	η lamp Lm
		5279	85%	4487
RWB: 288 X 0,13W LED				



ARU - Alberto Zecchini 2005

material diffuser	material structure	colour	symbols	emission
(27)	(27)	◇ ◇	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
*halo: 120W (R7s) HDG 74,9 mm	20	68%		11
fluo: 42W (Gx24q-5) FSMH	76	69%		52,5

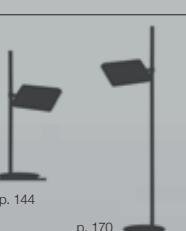
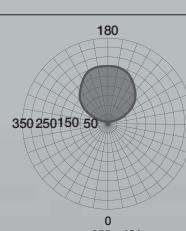
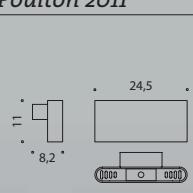




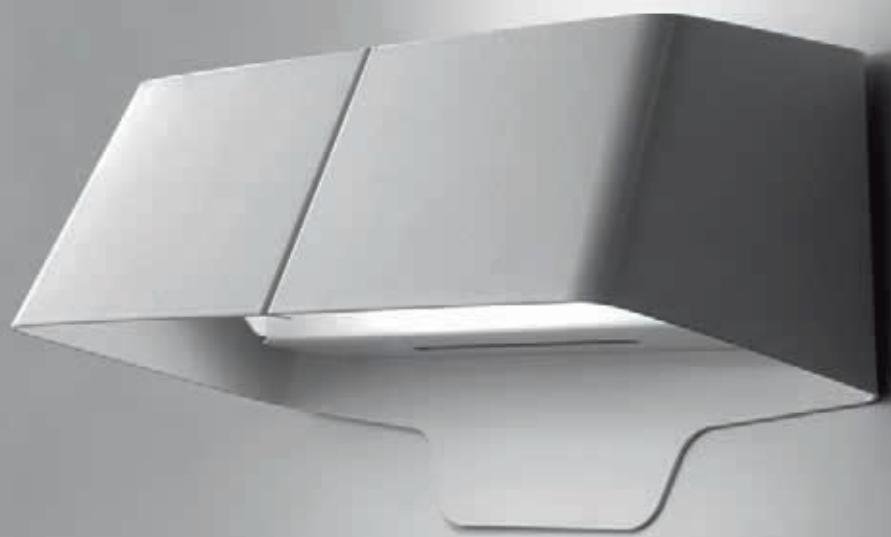
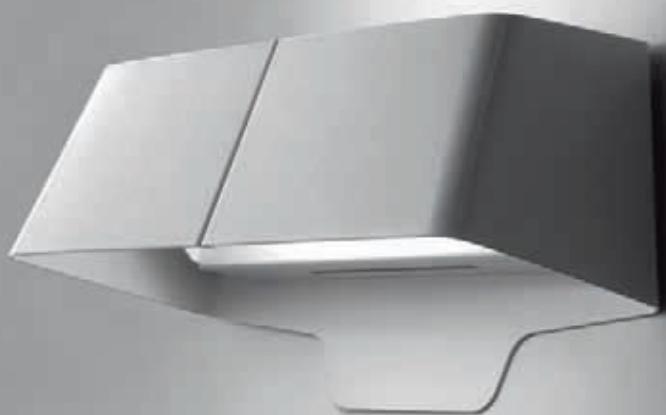


TWO FLAGS parete - *Ernesto Gismondi, Neil Poulton 2011*

material diffuser	material structure	colour	symbols	emission
(16)	(34) / (20)	◆◆◆	IP20 F (L)	
lampung		n lamp Lm/W	R	n lamp Lm/W
LED 25,5W (1x25,5W LED)		87	85%	74
CCT 3000K - Ra ≤ 80		n lamp Lm	R	n lamp Lm
		2218,5	85%	1886







LETI 22 / LETI 30 parete - Matteo Ragni 2008

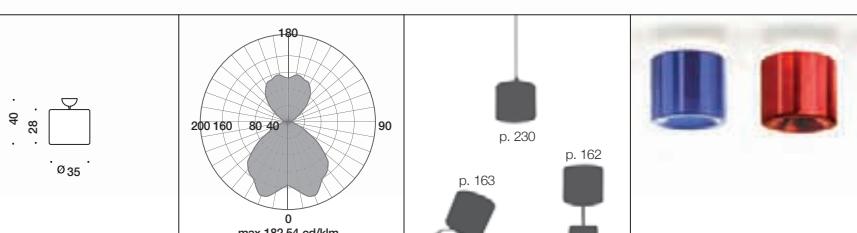
material diffuser	material structure	colour	symbols	emission			
(27) + (17)	(27)	◆	IP20				
lampung		η lamping Lm/W	R	η lamp Lm/W			
leti 22: 18W (Gx24q-2) FSMH	67	87%		58			
leti 30: 42W (Gx24q-4) FSMH	76	68%		52			
* optional							
16	13,5	22,5	10	200 140 80 40	180	160 120 80 40	180
				0	90	0	90
				max 181,42 cd/km		max 143,43 cd/km	
							p. 158
							optional





TET soffitto - Carlotta de Bevilacqua 2005

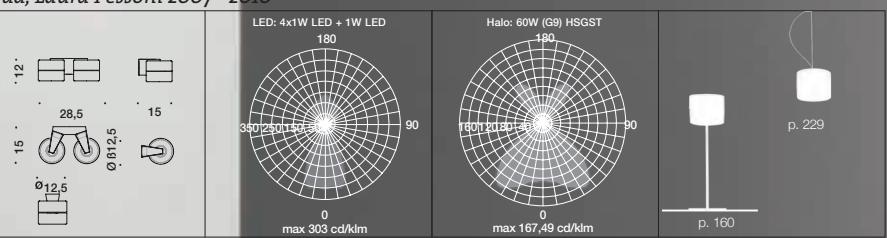
material diffuser	material structure	colour	symbols	emission
(20)	(25)	◇ ◆ ◇	IP20	
lamp		η lamp Lm/W	◇ R	η lamp Lm/W
20W (E27) FBG	58	70%	41	
max 70W (E27) HSGSA				





XIAO TET parete* / soffitto - Carlotta de Bevilacqua, Laura Pessoni 2007 - 2010

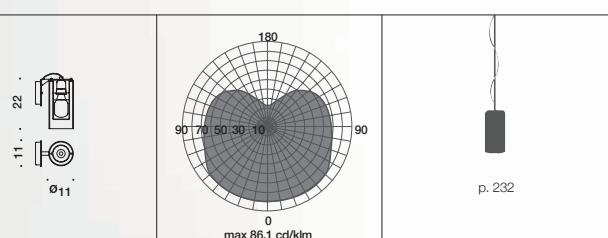
material diffuser	material structure	colour	symbols	emission
(20) / (34)	(25)* / (20)	◇ ◇ ◆ ◆ ◆	IP20	
lampung		η lamping Lm/W	◇ R	η lamp Lm/W
tot: 5W LED	80	85%		68
direct: 4x1W LED				
Indirect: 1W LED				
CCT 3000K - Ra 80	400	85%		340
lampung		η lamping Lm/W	◇ R	η lamp Lm/W
HALO: 60W (G9) HSGST	15	85%		13



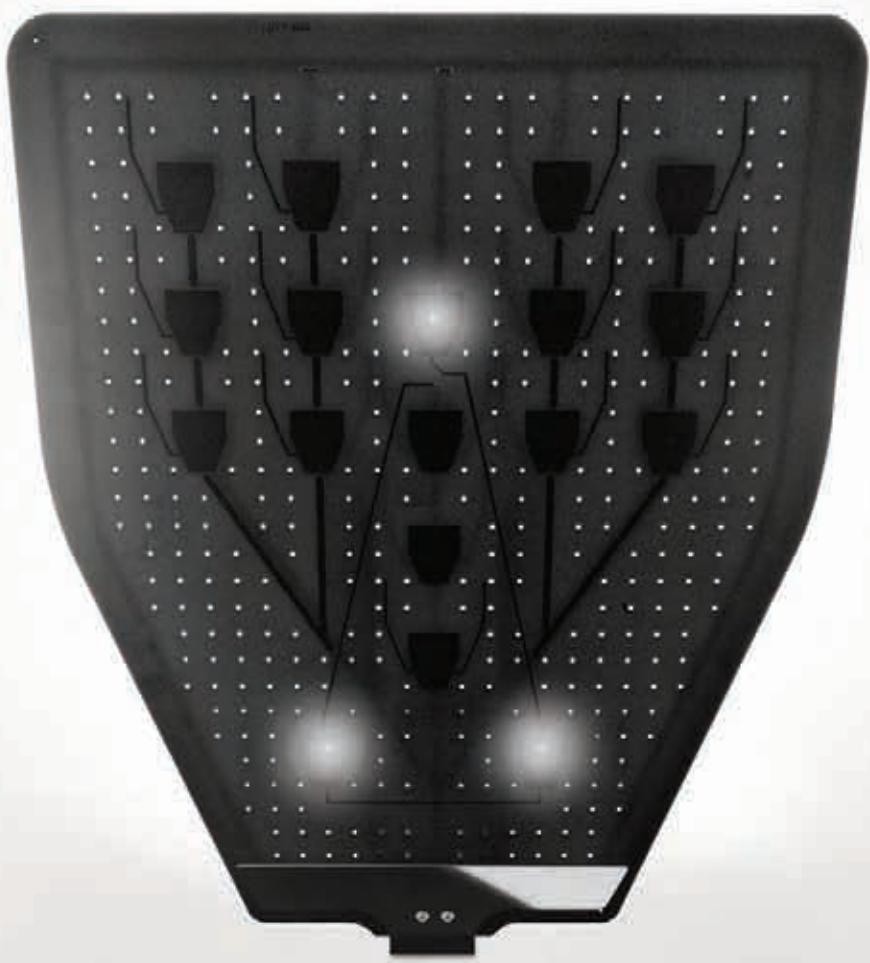


KISKA parete - Studio 63 2005

material diffuser	material structure	colour	symbols	emission
(16) + (17)	(25)	◆	IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG	58	85%	49	
max 70W (E27) HSGSA				



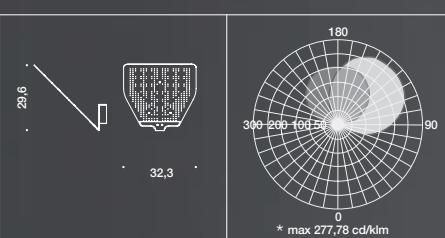






COURT CIRCUIT parete - Matali Crasset

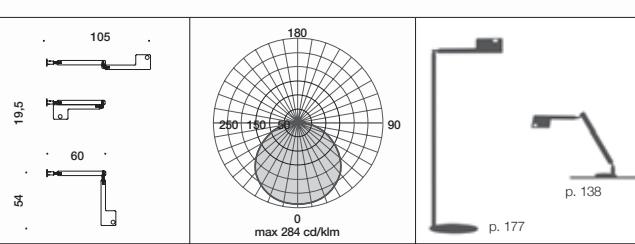
material diffuser	material structure	colour	symbols	emission
(45)	(21) + (25)	* ♦ ◆ ◇	IP20	
lamping		η lamping Lm/W	* R	η lamp Lm/W
tot : 21,5 W LED direct : 15 x 1,2 W LED indirect : 3 x 1,2 W LED CCT 3000K – Ra 80		57	98%	56
		η lamping Lm	R	η lamp Lm
		1225,5	98%	1204





UNA Carlotta de Bevilacqua 2009

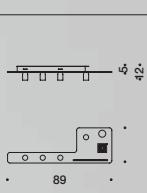
material diffuser	material structure	colour	symbols	emission
	(22) + (36)	◆	IP20 ▽ ◉	●
lamping		η lamping Lm/W	R	η lamp Lm/W
tot: 9W	60	100%		60
direct: 84x0,1W LED				
indirect: 6x0,1W LED				
CCT 3000K - Ra 80	540	100%		540
on/off touch dimming control system				





COCKTAIL - Martí Guixé 2011

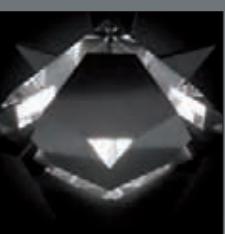
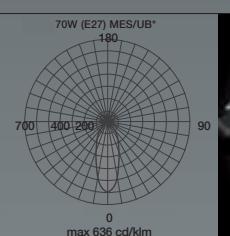
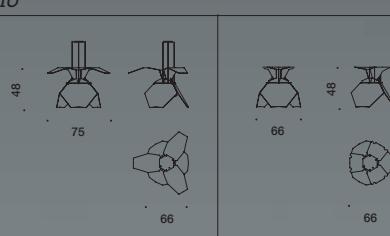
material diffuser	material structure	colour	symbols	emission
	(34)	◆ ♦	IP20 F	
lamping		η lamping Lm/W	R	η lamp Lm/W
84x0,1W LED +	75	100%	75	
*4xE27	max 105 W			
LED: CCT 3000K – Ra 80				
LED included, bulbs not included, E27 free composition				





OGUN soffitto / sospensione - *Huub Ubbens 2010*

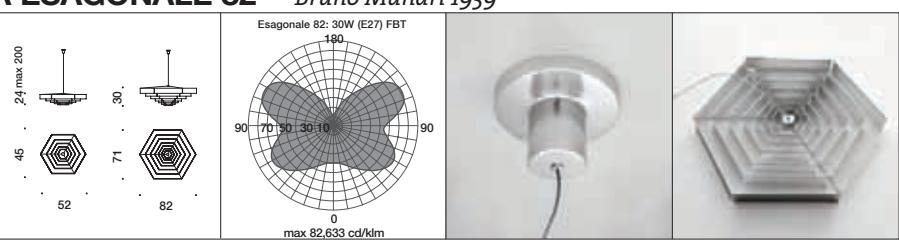
material diffuser	material structure	colour	symbols	emission
(34) + (35)	(19)	◆	IP20 F	
lamp		η lamp Lm/W	R	η lamp Lm/W
42W (Gx24q-5) FSMH	76	75%	57	
70W (E27) MES/UB*	96	75%	72	





LAMPADA ESAGONALE* / LAMPADA ESAGONALE 82 - * Bruno Munari 1959

material diffuser	material structure	colour	symbols	emission
(23)	(24)	◆	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
esagonale: 30W (E27) FBT	64	75%		48
esagonale 82: 30W (E27) FBT	64	75%		48
max 105W (E27) HGS/SA / max 150W (E27) HGS/T				





FALKLAND* / **FALKLAND 53** / **FALKLAND 85** - **Bruno Munari 1964*

FALKLAND / FALKLAND 85 / FALKLAND 86					Brilio Mariani 1984
material diffuser	material structure	colour	symbols	emission	
3	19	◇	IP20		
lamp	n lamp Lm/W	R		n lamp Lm/W	
falkland 53: 30W (E27) FBT	64	63%		40	
falkland 85: 30W (E27) FBT	64	58%		37	
falkland 165: 30W (E27) FBT	64	56%		36	
max 52W (E27) HSGSA					





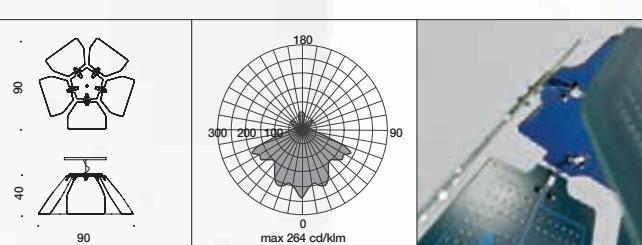

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COURT CIRCUIT - Matali Crasset 2011

material diffuser	material structure	colour	symbols	emission
(45)	(30) + (34)	◇ ◆ ♦	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
tot:18W		23	94%	21,5
direct: 15W: 75x0,2W LED				
indirect: 3W: 15x0,2W LED				
CCT 3000K – Ra 80		414	94%	387

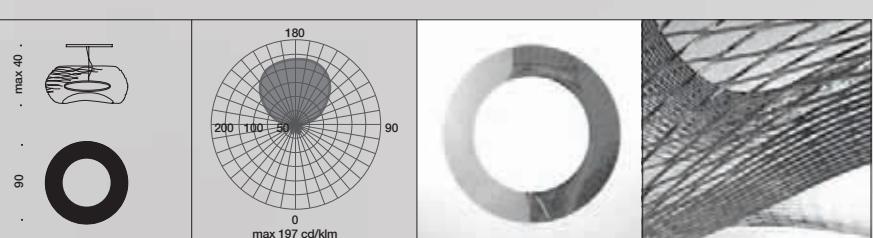


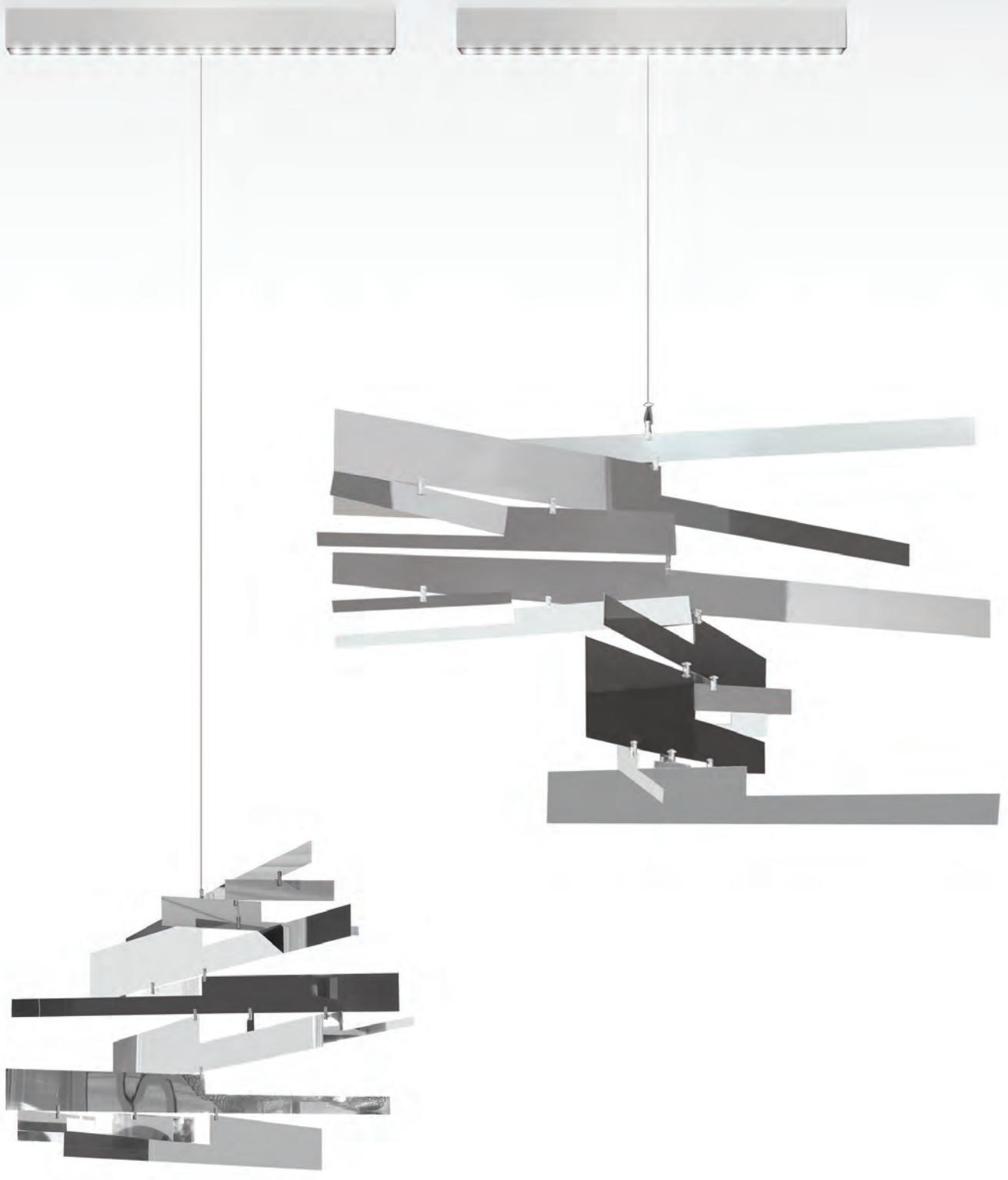




YAP - Paolo Ulian 2011

material diffuser	material structure	colour	symbols	emission
(13)	(37)	◇	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
direct: 4x1W LED + indirect: 1x55W (2Gx13) FC	76	65%	58	

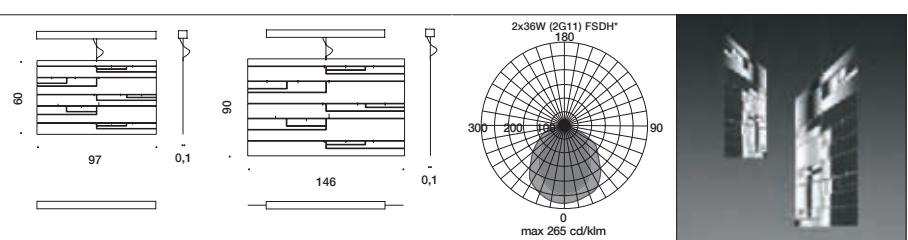




SWIVEL - Asif Khan 2011

material diffuser	material structure	colour	symbols	emission
(37)	(37)	◆	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
20W: 1x20W LED CCT 3700K - Ra 80	80,5	50%	40	
	η lamp Lm	R	η lamp Lm	
	1610	50%	805	

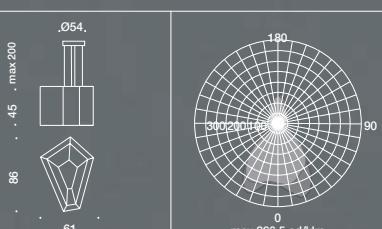
* calculated without reflecting body interaction





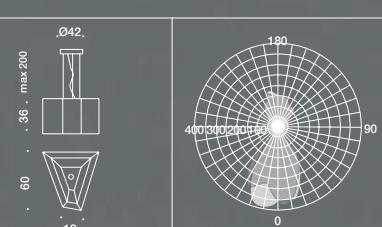
ORION ALFA - *Carlotta de Bevilacqua 2008*

material diffuser	material structure	colour	symbols	emission
(23) + (11)	(19)	◆	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
42W (Gx24q-6) FSHM	76	85%	65	



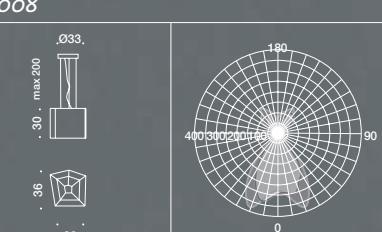
ORION BETA - *Carlotta de Bevilacqua 2008*

material diffuser	material structure	colour	symbols	emission
(23) + (11)	(19)	◆	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
42W (Gx24q-4) FSHM	76	84%	64	



ORION CENTAURUS - *Carlotta de Bevilacqua 2008*

material diffuser	material structure	colour	symbols	emission
(23) + (11)	(19)	◆	IP20	
lamp		η lamp Lm/W	R	η lamp Lm/W
20W (E27) FBT	61	79%	48	







HBM 52 / HBM 75 / HBM LED / HBM 100 - Carlotta de Bevilacqua 2006 - 2007

material diffuser	material structure	colour	symbols	emission			
(7) + (11)	(23) + (25)	◆	IP20				
lamp		η lamp Lm/W	R	η lamp Lm/W			
HBM 52 / 75: 2x20W (E27) FBG*	58	50%	29				
HBM LED: tot 36W LED	90	50%	45				
HBM 100: 3x20W (E27) FBG*	58	50%	29				
* max 70W (E27) HSGSA							

37
52
50
75
56
100

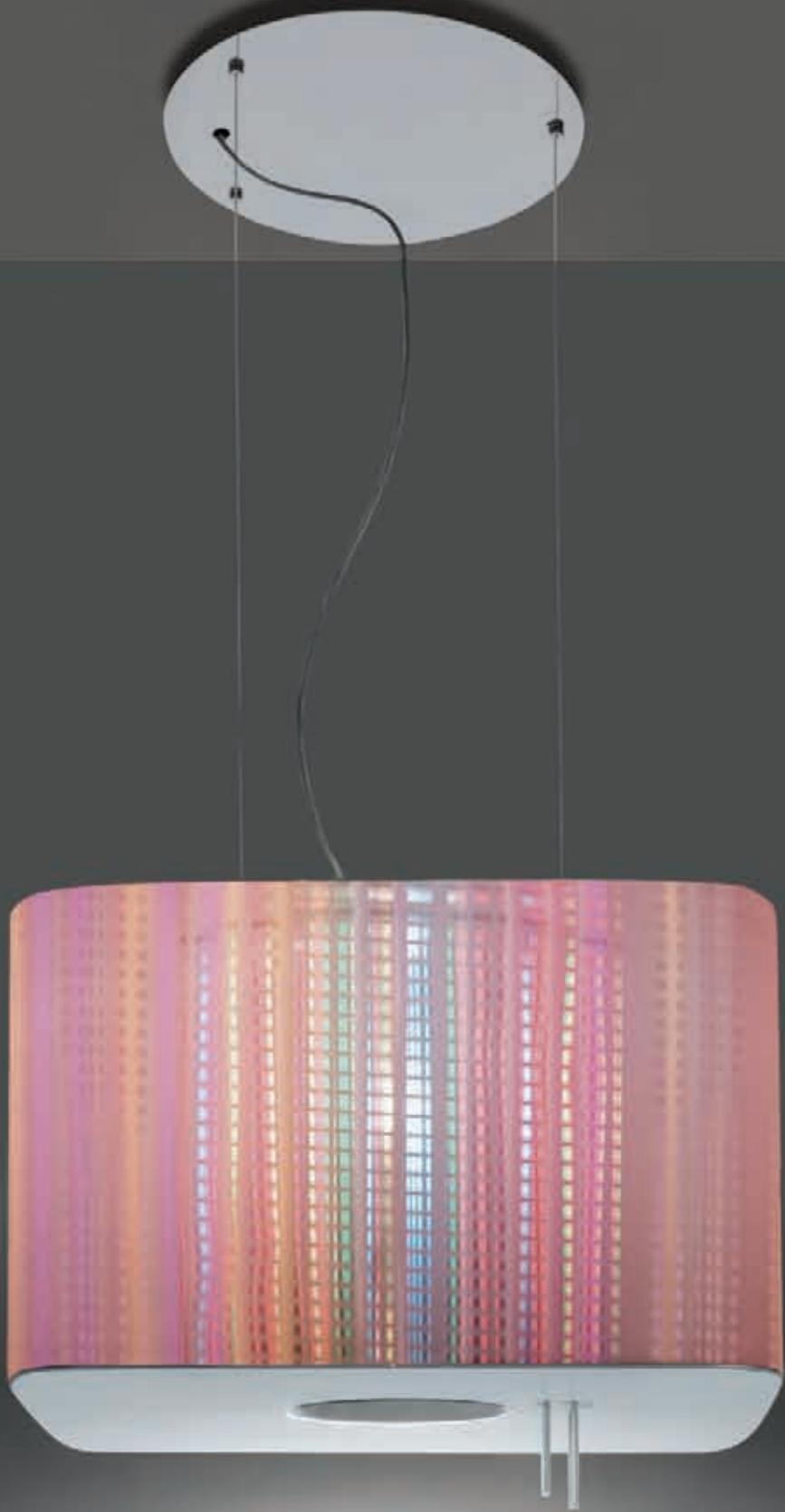







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PLAYFUL MIND - Carlotta de Bevilacqua 2008

material diffuser	material structure	colour	symbols	emission			
(8) + (14)	(25)		IP20				
lamping		η lamping Lm/W	R	η lamp Lm/W			
indirect: 42W (Gx24q-5) FSMH	76	70%	53				
+ direct: 42W (Gx24q-4) FSMH	76	82%	63				

40 · max 200

60

60

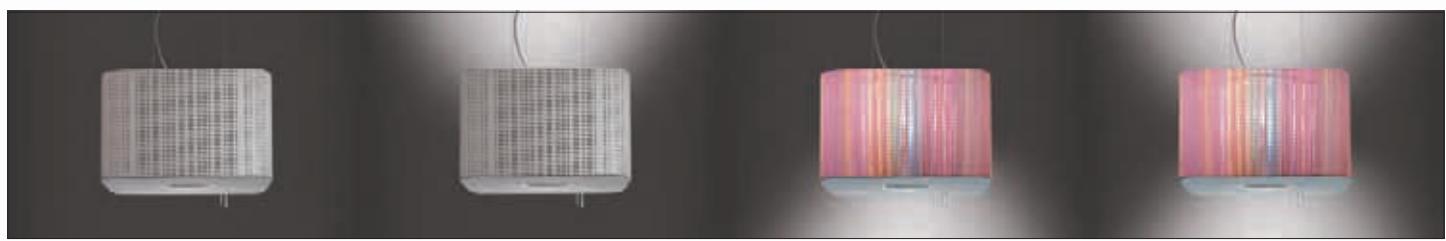
direct diffuse: 42W (Gx24q-4) FSMH

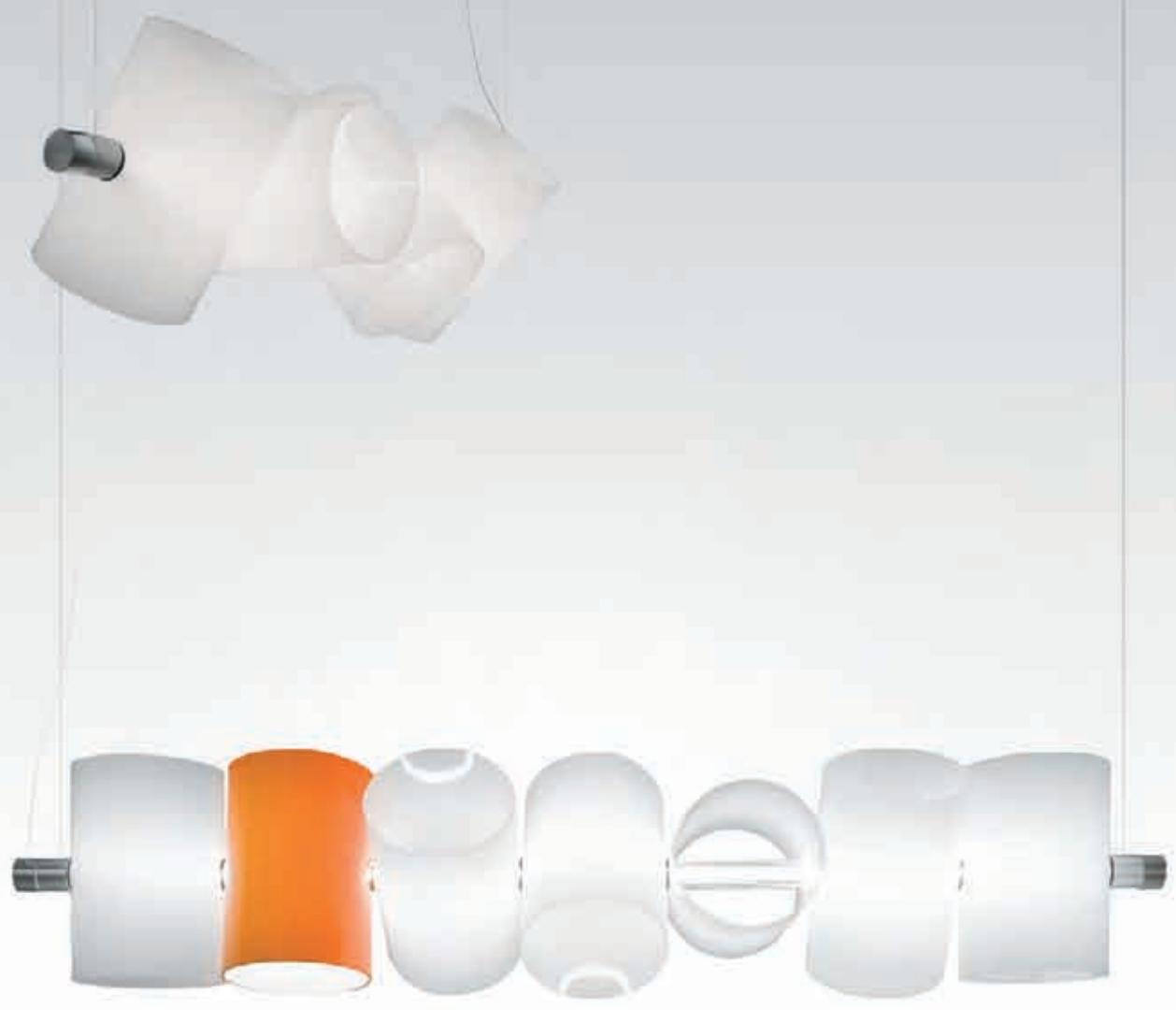
max 480,07 cd/klm

indirect: 57W (Gx24q-5) FSMH

max 351,41 cd/klm

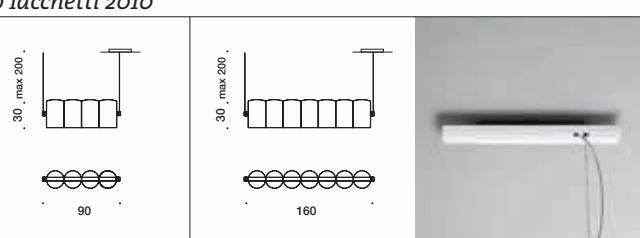
On/Off touch dimming





KERMESSE 90 / KERMESSE 160 - Giulio Jacchetti 2010

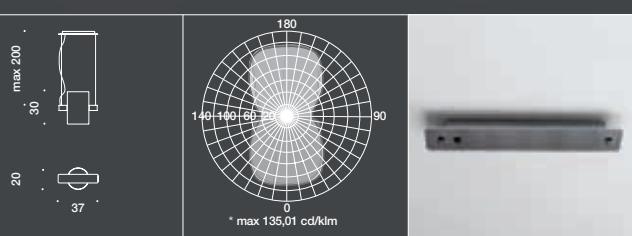
material diffuser	material structure	colour	symbols	emission
(9)	(19) + (16)		IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
kermesse 90: 1x39W (G5) FDH		79	63%	50
kermesse 160: 1x80W (G5) FDH		77	63%	48,5





KERMESSE 20 - *Giulio Iacchetti*

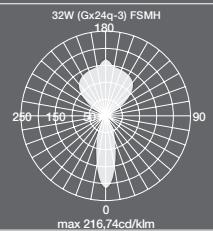
material diffuser	material structure	colour	symbols	emission
(9)	(19)	◆◆	IP20 ▽ ⊖	●
lamp		η lamping Lm/W	* R	η lamp Lm/W
20 W FBT E27	61,5	85%	49	
max 20 W FBG E27	61	variable	variable	





CAU sospensione - Martí Guixé 2009

material diffuser	material structure	colour	symbols	emission
(20) + (23)	(26)	◆ ◆	IP20	
lamp		1 lamp Lm/W	R	1 lamp Lm/W
32W (Gx24q-3) FSMH +	75	56%	42	
20W (E27) FBT	variable			





FILMOGRAFICA - Martí Guixé 2011

material diffuser	material structure	colour	symbols	emission	
	(22) + (24)	◇	IP20		
lamping		η lamping Lm/W	R	η lamp Lm/W	
tot: 9w LED		60	100%	60	
direct: 84x0,1W LED		η lamping Lm	R	η lamp Lm	
indirect: 6x0,1W LED		540	100%	540	
CCT 3000K – Ra 80					

max 200
9,5°
20
9,5°
0,3
Ø 26

280 180 90 0
max 284 cd/km
0



METRO - Martí Guixé 2011

material diffuser	material structure	colour	symbols	emission	
(19)	(19)	◆ ◇ ◆	IP20		
lampung			η lampung Lm/W	R	η lamp Lm/W
tot: 41W		64	100%	64	
16W: 315x0,13W LED			η lampung Lm	R	η lamp Lm
		2624	100%	2624	

110
max 140



COCKTAIL sospensione - Martí Guixé 2011

material diffuser	material structure	colour	symbols	emission
	(34)	◆ ◇	IP20 F	
lamping		η lamping Lm/W	R	η lamp Lm/W
84x0,1W LED + 30x0,1W LED	60	100%	60	
*4xE27				
LED CCT 3000K – Ra 80				
LED included, bulbs not included, E27 free composition				



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EVOLUTE 39 / EVOLUTE 56 sospensione - Matali Crasset 2004

material diffuser	material structure	colour	symbols	emission				
(2)	(25)	◆	IP20					
lamp		η lamp Lm/W	R	η lamp Lm/W				
evolute 39: 20W (E27) FBT	58	69%	40					
max 70W (E27) HSGSA								
evolute 56: 30W (E27) FBT	64	75%	48					
max 105W (E27) HSGSA								

39

56

Evolute 56: 30W (E27) FBT
180°
140 100 40 20 0
90
max 129,15 cd/klm

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ITKA 20 / ITKA 35 / ITKA 50 sospensione - Naoto Fukasawa 2008 - 2010

material diffuser	material structure	colour	symbols	emission		
(15)	(26)	◆	IP20			
lamp						
itka 50: 3x22W (E27) FBT	65	61%		40		
itka 35: 3x10W (E14) FBT	58	60%		35		
itka 20 fluo: 1x9W (Gx53) FB	40	60%		24		

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<img alt="Diagram of the ITKA 50 lamp showing a front view with a width of 16.5mm."



ANEMONE - Paolo Ulian 2011

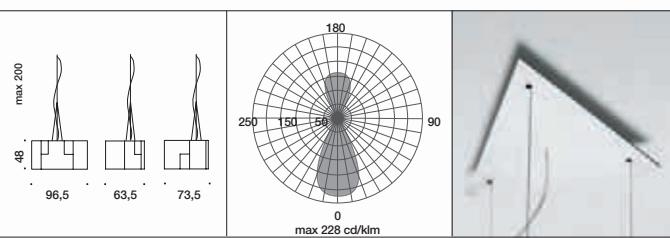
material diffuser	material structure	colour	symbols	emission
(46)	(26)	◆	IP20	
lamp			η lamp Lm/W	R
20W (E27) FBT		58	variable	η lamp Lm/W
Hand made limited edition				

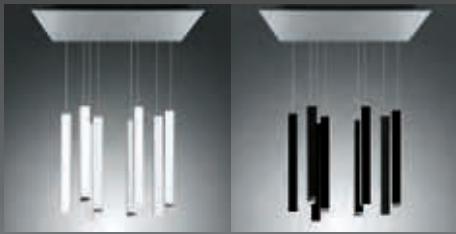




ALBERS - Alberto Zecchini 2011

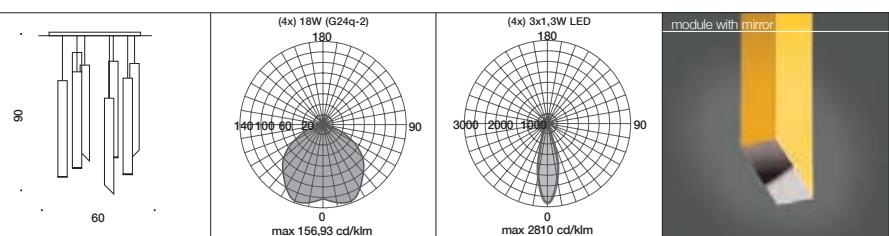
material diffuser	material structure	symbols	emission
(41)	(24)	◆	IP20
lamp	η	R	η lamp Lm/W
1x42W (Gx24q4) F5MH	76	62%	48





MIYAKO CHANDELIER - Studio 63 2009

material diffuser	material structure	colour	symbols	emission
(12) / (13)	(20) + (23)		IP20	
		η lamping Lm/W		η lamp Lm/W
LED (4x): 3x1,3W LED		70	88%	62
FLUO (4x): 18W (G24q-2) FSQ*		66	44%	30
CCT 3200K – Ra 80				



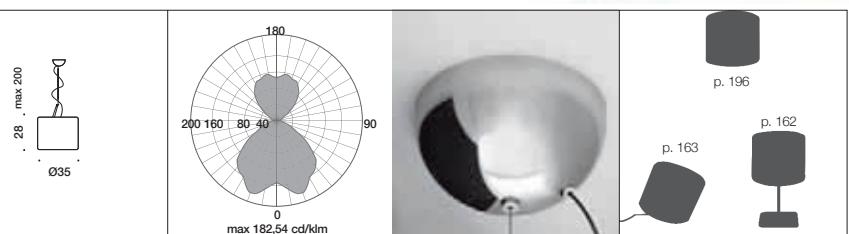


XIAO TET sospensione - *Carlotta de Bevilacqua, Laura Pessoni 2007 - 2010*



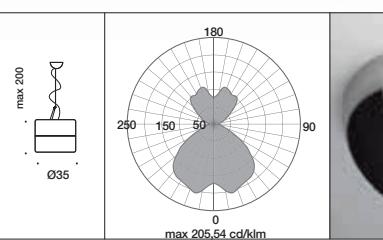
TET sospensione - Carlotta de Bevilacqua 2005

material diffuser	material structure	colour	symbols	emission
○	(25)	◆ ♦ ◆	IP20	
lampung		η lamping Lm/W	◇R	η lamp Lm/W
20W (E27) FBT	58	70%	41	
max 70W (E27) HSGSA				





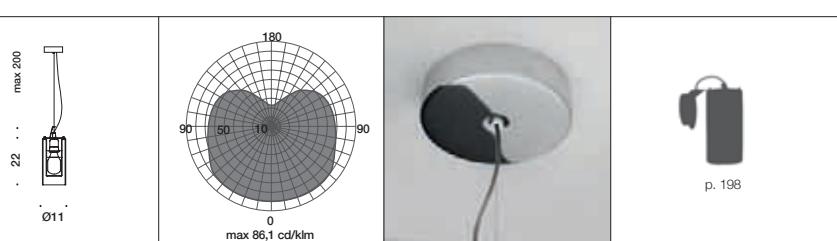
TET TAN sospensione - *Carlotta de Bevilacqua 2006*





KISKA sospensione - Studio 63 2005

material diffuser	material structure	colour	symbols	emission
(16) + (17)	(25)	◇	IP20	
lamping		η lamping Lm/W	R	η lamp Lm/W
20W (E27) FBG	58	85%	49	
max 70W (E27) HGS/A				
Diameter max 70 mm				



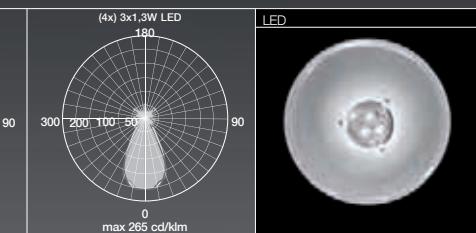
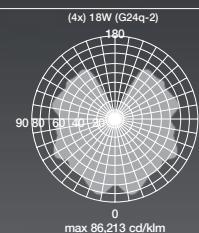
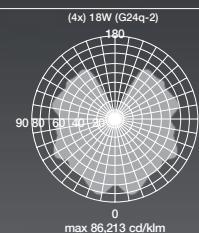


OSUMI - Studio 63 2010

material diffuser	material structure	colour	symbols	emission
(42)	(20)	◆	IP20	(•) /
lamp		η lamping Lm/W	R	η lamp Lm/W
tot: 3,9W LED *LED: 3x1,3W LED		70	88%	62
		η lamping Lm	R	η lamp Lm
		273	88%	242
lamp		η lamping Lm/W	R	η lamp Lm/W
FLUO: 10W (E14) FB		50	88%	44

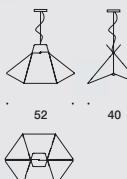
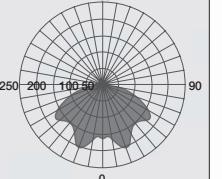


max 200
30
Ø15





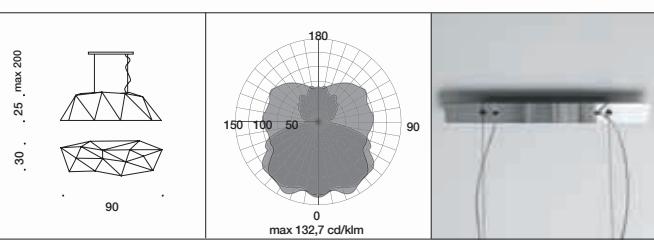
ODAIBA - Modoloco Design 2010

material diffuser	material structure	colour	symbols	emission		joined methacrylate
(41)	(24)	◆ ◆	IP20			
lamp		η lamp Lm/W	R	η lamp Lm/W		
20W (E27) FBG	55	75%	41			
					 	 



FORTUNATA - *Matteo Ragni 2010*

material diffuser	material structure	colour	symbols	emission
(8)	(25)	◆ ♦ ◇	IP20	(●)
lamp		1 lamp Lm/W	R	1 lamp Lm/W
2x20W (E27) FBG	58	76%	44	
max 70W (E27) HSGSA				



SORGENTI, LIGHT SOURCES, SOURCES, LAMPEN

modello	W	attacco	ILCOS	LBS	Lm	Lm/W	classe energetica
	9	GX53	LBS	TC_TSE	280	31	A
	10	E14	FB	TCA-SE	500	50	A
	10	E14	FBT	TC-TSE		60	A
	18	E27	FBT	TC-TSE	1050	58	A
	22	E27	FBT	TC-TSE	1410	64	A
	20	E27	FBT	TC-TSE	1230	61	A
	30	E27	FBT	TC-TSE	1900	64	A
	20	E27	FBG	TCG-SE	1160	58	A
	20	E27	FBG	TCA-SE	1100	55	A
	15	E27	LED	-	-	-	A
	15	E27	FBR	TCR-FSE	-	-	A
	11	W4 / 3x8,5 d	FM	T2	750	68	B
	39	G5	FDH	T16	3100	79	A
	80	G5	FDH	T16	6150	77	A
	55	2Gx13	FC	FC	4200	76	B
	55	2G11	FSDH	TC-L	4800	87	A
	80	2G11	FSDH	TC-L	6000	75	B
	18	G24q-2	FSQ	TC-DEL	1200	66	B
	18	Gx24q-2	FSMH	TC-TEL	1200	67	B
	32	Gx24q-3	FSMH	TC-TEL	2400	75	B
	42	Gx24q-4	FSMH	TC-TEL	3200	76	B
	36	2G10	FSS	TC-F	2800	78	B
	75	E27	HASG-SPOT	PAR 30	-	-	-
	120	R7s	HDG L74,9mm	QT-DE 12	2450	20	C
	230	R7s	HDG	QT-DE 12	5060	22	C
	20	G9	HSGST	QT 14	200	20	D
	33	G9	HSGST	QT 14	462	14	C
	60	G9	HSGST	QT 14	1100	15	C
	70	E27	MES/UB		6720Z	96	A
	205	B15d	HSGST	QT-18	4350	18	C
	42	E27	HSGSA	QT	630	15	C
	52	E27	HSGSA	QT	840	16	C
	70	E27	HSGSA	QT	1240	17	C
	105	E27	HSGSA	QT	710	12	E
	ALL LED						A

SIMBOLI, SYMBOLS, SYMBOLES, SYMBOLE

CLASSE I, CLASS I, CLASSE I, SCHUTZKLASSE I



Apparecchio nel quale la sicurezza elettrica è garantita da un conduttore supplementare di protezione (messa a terra) collegato alla struttura metallica della lampada.

EN - Class I - A light fitting whose safety is guaranteed by an additional protective conductor (earth) connected with the metal frame of the lamp.

FR - Classe I - Appareil où la sécurité électrique est garantie par un conducteur supplémentaire de protection (mise à la terre) connecté à la structure métallique de la lampe.

D - Schutzklasse I - Beim Betrieb und bei der Wartung müssen alle berührbaren Metallteile der Leuchte, die im Fehlerfall Spannung annehmen können, leitend mit dem Schutzleiteranschluß verbunden sein.

CLASSE II, CLASS II, CLASSE II, SCHUTZKLASSE II



Apparecchio nel quale la protezione contro la scossa elettrica non si basa unicamente sull'isolamento fondamentale, ma anche sulle misure supplementari di sicurezza costituite dal doppio isolamento o dall'isolamento rinforzato. Queste misure non comportano dispositivi per la messa a terra e non dipendono dalle condizioni di installazione.

EN - Class II - Light fittings whose safety is guaranteed by the double reinforced insulation of conductive parts, with no earth.

FR - Classe II - Appareil où la sécurité électrique est garantie par un double niveau d'isolation sans dispositif de mise à la terre.

D - Schutzklasse II - Die Leuchten der Klasse II ist der Berührungsschutz durch eine Schutzisolierung gegeben. Alle spannungsführenden Teile haben außer der Betriebsisolierung noch eine zusätzliche Isolation.

CLASSE III, CLASS III, CLASSE III, SCHUTZKLASSE III



Apparecchio nel quale la protezione contro la scossa elettrica si basa unicamente sull'alimentazione a bassissima tensione di sicurezza e in cui non si producono tensioni superiori alla stessa. Nota: un apparecchio in classe III non deve essere provvisto di messa a terra di protezione.

EN - Class III - The light fixture is fitted with a protection device against electric shock that features a very low voltage power supply and prevents it from generating higher voltages. Note: a class III fixture does not have to be equipped with a protection grounding.

FR - Classe III - Appareil dans lequel la protection contre les chocs électriques se base sur l'alimentation à très basse tension de sécurité et dans lequel ne produisent pas de tensions supérieures à 50V. Note: un appareil classe III ne nécessite pas de mise à la terre.

D - Schutzklasse III - Diese Leuchte ist mit einer Schutzvorrichtung versehen, die einen Betrieb mit einer Schutzkeinspannung vorsieht und keine höheren Spannungen zuläßt. Bemerkung: eine Leuchte der Klasse III wird mit keiner Schulzerdung ausgestattet.



Tutti i prodotti DANESE che rientrano nell'ambito di applicazione della direttiva europea bassa tensione B.T. 2006/95/CE soddisfano i requisiti richiesti.

EN - All DANESE products falling within the range of application of the European low voltage directive B.T. 2006/95/EC meet the required specifications.

FR - Tous les produits DANESE appartenant au champ d'application de la directive européenne basse tension B.T. 2006/95/CE remplissent les conditions prévues.

D - Alle Produkte von DANESE, die unter das Anwendungsgebiet der europäischen Richtlinie der Niederspannung B.T. 2006/95/EG fallen, entsprechen den erforderlichen Eigenschaften.



Il simbolo indica l'idoneità degli apparecchi al montaggio diretto su superfici normalmente infiammabili. Gli apparecchi privi del suddetto simbolo sono idonei ad essere installati esclusivamente su superfici non combustibili.

EN - The symbol indicates the suitability of fixtures to be mounted directly on normally inflammable surfaces.

Fixtures without the above symbol are only suitable for installation on fire resistant surfaces.

FR - Le symbole indique que les appareils sont indiqués pour être montés directement sur des surfaces normalement inflammables.

Les appareils ne portant pas ce symbole peuvent être montés exclusivement sur des surfaces non combustibles.

D - Das Symbol zeigt an, ob die Geräte dazu geeignet sind, auf normal entflammbaren Oberflächen angebracht zu werden.

Geräte ohne dieses Symbol sind ausschließlich dazu geeignet, auf nicht entflammbaren Oberflächen angebracht zu werden.

GRADO DI PROTEZIONE IP, DEGREE OF PROTECTION IP, INDICE DE PROTECTION IP, SCHUTZART IP

IP20 - IP65

Gli apparecchi elettrici sono predisposti per impedire l'intrusione e il contatto di corpi solidi e liquidi con le parti in tensione. La resistenza alla penetrazione di solidi o liquidi è espressa dalla sigla IP, seguita da due numeri che esprimono il grado di protezione: la prima cifra è riferita ai corpi solidi, la seconda ai liquidi.

EN - Degree of protection IP - Electric fittings are preset in order to prevent the intrusion and contact with solids and liquids with live parts. Resistance against the penetration of solids and liquids is expressed by the initials IP, followed by two digits that stand for the degree of protection: the first referring to solids, the second to liquids.

FR - Indice de protection IP - Les appareils électriques sont conçus afin d'éviter toute intrusion ou contact de corps solides et liquides avec les parties sous tension. La résistance à la pénétration de solides ou liquides est exprimée par le sigle IP, suivi de deux chiffres qui expriment le degré de protection: le premier chiffre concerne les corps solides, le second les liquides.

D - Schutzart IP - Die Leuchten sind ausgestattet, um das Eindringen und den Kontakt von Festkörpern und Flüssigkeiten zu verhindern.

Hinter den Kennbuchstaben "IP" gibt die erste Kennziffer den Fremdkörperschutz an, die zweite Kennziffer den Schutz gegen Eindringen von Wasser.

EMISSIONI / EMISSIONS / EMISSIONS / LICHTVERTEILUNG

diffused

double emission

indirect

direct

spot

wall washer



MATERIALI, MATERIALS, MATERIELS, MATERIALEN

- (1) Multistrato noce chiaro, light walnut-tree multilayer, noyer clair multicouches, helles Nussbaumspeckholz
- (2) Legno d'acero, maple wood, bois d'érable, Ahornholz
- (3) Maglia elastica , elastic fabric, maille élastique, elastisches Gewebe
- (4) Tessuto, fabric, tissu, Gewebe
- (5) Cemento con trattamento idrorepellente, water proofing concrete, béton résistant à l'eau, Wasser abweisenden Zement
- (6) Abs verniciato, painted Abs, Abs peint, lackiertes Abs
- (7) Petg
- (8) Policarbonato, polycarbonate, polycarbonate, Polycarbonate
- (9) PMMA
- (10) Rete pvc, pvc net, filet en pvc, Netz aus PVC
- (11) Film specchiante traslucido, reflecting translucent film, film réflécteur translucide, reflektierender, durchscheinender Film
- (12) Metacrilato, methacrylate, metacrilate, Metacrylat
- (13) Metacrilato opalino, opaline methacrylate, metacrilate opalin, opalfarbigen Metacrylat
- (14) Poliestere, polyester, Polyester
- (15) Vetro opalino acidato satinato, opal acid-etched satin-finished glass, verre opalin satiné traité à l'acide, geätztes satiniertes opalfarbigen Glas
- (16) Pirex
- (17) Pirex sabbiato, sand-blasted Pirex, Pirex sablé, gesandstrahltes Pirex
- (18) Acciaio nichelato opaco, nickel-plated steel, acier nickelé opaque, vernickelter matter Stahl
- (19) Alluminio, aluminium, aluminium, Aluminium
- (20) Alluminio verniciato, painted aluminium, aluminium peint, lackiertes Aluminium
- (21) Metallo satinato verniciato trasparente, varnished satin-finished metal, métal satiné verni transparent, Transparent lackiertes satiniertes Metall
- (22) Alluminio con circuito stampato, aluminium with painted circuit board, aluminium avec circuit imprimé, Aluminium mit Leiterplat
- (23) Alluminio ottico, optic aluminium, métal optique, optisches Aluminium
- (24) Metallo, metal, métal, Metall
- (25) Metallo cromato, chromed metal, métal chromé, verchromtes Metall
- (26) Metallo verniciato, painted metal, metal peint, lackiertes Metall
- (27) Lamiera di metallo verniciata, painted metal sheet, tôle laquée, lackiertes Blech
- (28) Ottone, brass, laiton, Messing
- (29) Ottone nikelato, nickel-plated brass, laiton nickelé, vernickeltes Messing
- (30) Acciaio inox, inox steel, acier inox, Inox-Stahl
- (31) Tondino d'acciaio verniciato, painted steel rod, acier rond peint, lackiertes rundes Plättchen
- (32) Policarbonato trasparente bisatinato, Bi-satin-finished transparent Polycarbonate, Polycarbonate transparent satiné double face, Durchsichtiges doppelt satiniertes Polycarbonate
- (33) Circuito stampato flessibile, flexible printed circuit board, Circuit imprimé flexible, flexible Leiterplatte
- (34) Alluminio anodizzato, anodized aluminium, aluminium anodisé, eloxiertes Aluminium
- (35) Alluminio specchiato naturale, natural reflecting aluminium, aluminium réfléchissant naturel, echtes Spiegel-Aluminium
- (36) Alluminio brillantato, polished aluminium, aluminium poli, Polirete Aluminium
- (37) Acciaio lucidato, polished steel, acier poli, Polirete Stahl
- (38) Metacrilato bicolore, two-tone methacrylate, méthacrylate bicolore, zweifarbiges Metakrylat
- (39) Polietilene, polyethylene, polyéthylène, Polyethylen
- (40) Polipropilene, polypropylene, polypropylène, Polypropylen
- (41) Metacrilato accoppiato, joined methacrylate, méthacrylate complé, gekuppeltes Metakrylat
- (42) Vetro soffiato graduato, shaded blown glass, verre soufflé nuancé, nuanciertes geblasenes
- (43) Specchio, mirror, miroir, spiegel
- (44) MDF verniciato, painted MDF, MDF peint, lackiertes MDF
- (45) FR4
- (46) Plastica, plastic, plastique, Plastik

COLORI, COLOURS, COULEURS, FARBEN

- ◇ Bianco, white, blanc, weiß
- ◆ Nero, black, noir, schwarz
- ◇ Grigio chiaro, light grey, gris clair, hellgrau
- ◆ Silver, silver, argent, silber
- ◆ Alluminio, aluminium, aluminium, aluminium
- ◆ Cromo, chromo, chromé, chrom
- ◆ Grigio calamina, calamine-grey, gris calamine, Kalamingrau
- ◆ Legno, wood, bois, holzfarbig
- ◆ Arancio, orange, orange, orange
- ◆ Rosso, red, rouge, rot
- ◆ Blu elettrico, electric blue, bleu électrique, elektrischblau
- ◆ Marrone, brown, marron, braun
- ◆ Rosso, red, rouge, Rot RAL 3020
- ◆ Arancio, orange, orange, orange RAL 2008t
- ◆ Giallo, yellow, jaune, Gelb RAL 1015
- ◆ Giallo, yellow, jaune, Gelb
- ◆ Viola, purple, violet, Lila
- ◆ Blu, blue, bleu, Blau RAL 5000
- ◆ Verde, green, vert, Grün RAL 6018
- T Testurizzato, textured, texturisé, texturisiert
- TR Trasparente, transparent, transparent, transparent
- Opalino, opaline, opaline, opal

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LIGHT NEWS

2013



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Tre è un innovativo ed aperto sistema modulare flessibile pensato per adeguarsi a diverse esigenze di luce, pur garantendo comfort e performance corrette. Tutto è dettato da ragioni tecniche, ottiche, funzionali e di intelligenza produttiva, non da scelte formali o estetiche; la tecnologia stessa, lasciata a nudo, diventa l'estetica del progetto.

Il modo in cui il progetto ottico è stato affrontato e risolto costituisce un cambio di paradigma rispetto ai tradizionali sistemi di illuminazione che raggiungono il rispetto delle normative solo con una maggiore rigidità nelle possibilità applicative.

Il progetto parte dalla messa in discussione del limite dei modelli tradizionali, che richiedono progetti di luce differenti rispetto alle diverse esigenze di illuminazione.

Tre riesce a garantire valori ed uniformità di illuminamenti adeguati a situazioni di installazione differenti per altezze ed interdistanze sempre con un'emissione dark e quindi nel rispetto della normativa UNI 12464.

Un'ottica asimmetrica è il principio base di costituzione dell'intero sistema, lavora sui due assi controllando l'emissione del led secondo due differenti aperture: 30° e 42°.

Il profilo dell'ottica a pianta rettangolare è racchiuso in un supporto che ne riporta le dimensioni alla regolarità di un quadrato consentendone l'applicazione secondo i due diversi orientamenti degli assi e facilitandone la combinazione. Combinazioni di ottiche disposte con gli assi lungo orientamenti costanti o alternati definiscono le tre matrici costruttive che definiscono e controllano il flusso emesso per soddisfare esigenze di illuminamento e UGR che variano al variare delle situazioni di installazione.

Per ottimizzare i processi produttivi più celle ottiche sono raggruppate in moduli predefiniti che vengono poi combinati per ricostruire taglie di potenze luminose equivalenti ad altri sistemi presenti sul mercato.

Tre offre così performance paragonabili e superiori ai sistemi tradizionali, assicurando dimensioni e consumi estremamente più ridotti.

Rispetto ai tradizionali sistemi dark da ufficio che colonizzano gli spazi con una luce uniforme e a norma ma priva di qualità percettive ed emozionali, Tre permette di controllare e disegnare la luce nello spazio rispettando ritmi di luce ed ombra, garantendo situazioni variabili e diversificate per il loro impatto sullo spazio e sulla sua percezione.

Le diverse configurazioni di ottiche determinano infatti emissioni che definiscono aree precise di illuminamenti basate sulle reali necessità.

E' un controllo tecnico e a norma della luce che rispetta il diritto allo star bene, a un ambiente piacevole in cui una buona luce è gestita e modulata con variazioni di intensità per modellare gli spazi.

La luce emessa è corretta ma piacevole, può quindi essere trasversale non solo per ambienti strettamente lavorativi ma per spazi differenti in cui l'operatività non è l'aspetto principale.

Tre si declina in moduli quadrati più adatti alle applicazioni ad altezze di installazione maggiori con aree di illuminamento più ampie e in moduli lineari più adatti all'utilizzo a sospensione per definire in modo controllato le superfici di lavoro e gli spazi connettivi attraverso la luce.

La versione a sospensione è una barra della larghezza di soli due centimetri che si sviluppa in altezza con un corpo in alluminio sottilissimo, sottolinea la sua presenza solo con la luce emessa, diventando un elemento assolutamente smaterializzato e d'assente nell'ambiente.

La struttura è capace di accogliere un sistema di connessione magnetico ed elettrico permette di combinare tra loro più moduli in modo semplice, immediato e reversibile.

La ricerca ottica si combina a una intelligenza sistemica compositiva. Con un solo alimentatore è possibile gestire più moduli in sequenza fino ad un massimo di sette.

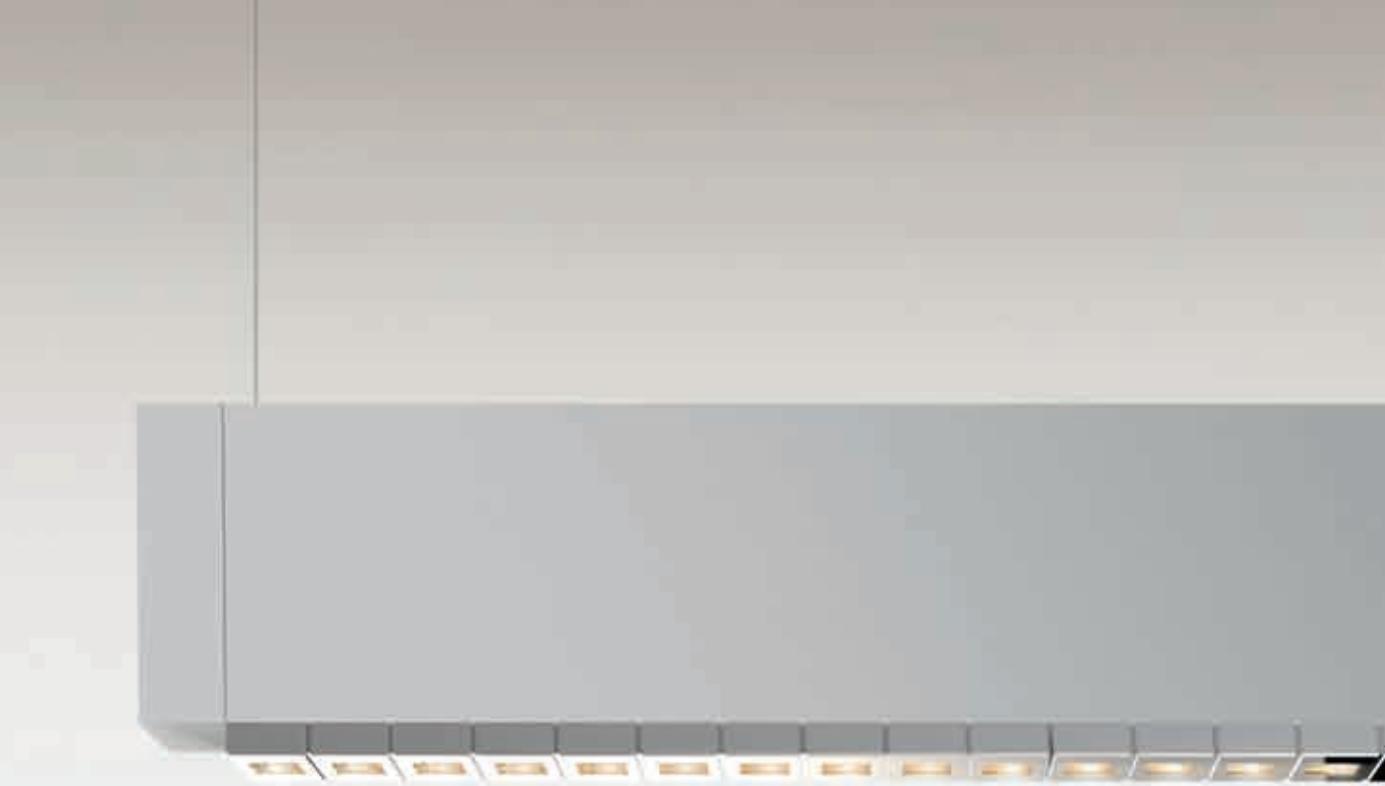
Il sistema connettivo permette inoltre di invertire l'emissione da diretta ad indiretta aprendo il campo all'introduzione di nuove performance di luce e di soluzioni ottiche semplificate per soddisfare ogni possibile esigenza.

La connessione può essere non solo lineare ma anche a 90° per permettere di gestire al meglio la distribuzione della luce nello spazio.

Il sistema è riconfigurabile senza necessità di interventi tecnici, permette di seguire con libertà la riconfigurazione degli spazi, di evolversi nel tempo per adeguarsi al variare delle esigenze.

In questo modo Tre si esprime al meglio come sistema completo e trasversale, flessibile e capace di rispondere con qualità di luce inedite ai bisogni degli spazi lavorativi contemporanei interpretati in chiave di una vera qualità ambientale.

Con pochi elementi ridotti al minimo è capace di garantire ampiezza e qualità profonda di performance.



Tre is an innovative and very flexible open modular system, designed to adapt to all workplace lighting needs yet ensuring high comfort and quality performance. Technical, optical and functional aspects and manufacturing intelligence are the driving forces behind this project, while the shape and basic technology contribute to the aesthetics of the product.

Regarding the optical design, its flexibility represents a paradigm shift. In fact, traditional office systems lose their flexibility when regulation compliance is required.

The design is based on a thorough study of performance requirements and relies on the use of the latest LED technology; traditional models are called into question.

Tre ensures luminance uniformity at different heights with diverse spacing, yet guaranteeing a dark light emission in compliance with UNI 12464.

Based on the principle of asymmetric optics, the entire system works on two axes, regulating the emission of the LED according to two different openings: 30 ° and 42 °.

The rectangular beam profile is enclosed in a holder that has the shape of a square. The two axis-aligned square allows the user to choose different positions and combinations.

The combinations of optics arranged with axes along constant or alternating guidelines define the three constructive matrices, which help regulate the light flow by meeting luminance requirements and UGR according to installation.

To optimize production processes, various optic cells are grouped into predefined modules that are combined to match the output of equivalent power compact fluorescent systems currently on the market.

Even though Tre offers performance comparable or higher than traditional fluorescent systems, it is smaller and its power consumption is lower.

As opposed to traditional dark light office equipment compliant with emission standards that dominates space but does not respond to any physical or emotional needs, Tre lets you modulate light in space according to light and shadow rhythms, ensuring different perceptual experiences.

The different optical configurations illuminate specific areas based on what's needed.

The technical control and monitoring of light makes you feel good: being in a pleasant environment in which the light is managed and modulated well so that

intensity variations can model the space.

The light emitted is corrected but pleasant and provides responses for all requirements, equally suitable for home and office.

Tre comes in square units particularly suitable for significant heights and wider illumination areas and in linear modules perfect for suspension so that users can control light better on work surfaces.

The suspension version is a very thin bar, its width is only two centimeters. It is the light emitted that emphasizes the presence of Tre, exalting the place with elegance and simplicity.

This version is the result of optics research and systemic intelligence.

An electro-magnetic connection system allows users to combine together different modules in a simple, quick and reversible way.

A single power supply can handle multiple modules by having a sequence of maximum seven.

To meet all possible needs, the connective system also allows you to reverse the emission from direct to indirect, permitting new light performances and simplified optical solutions.

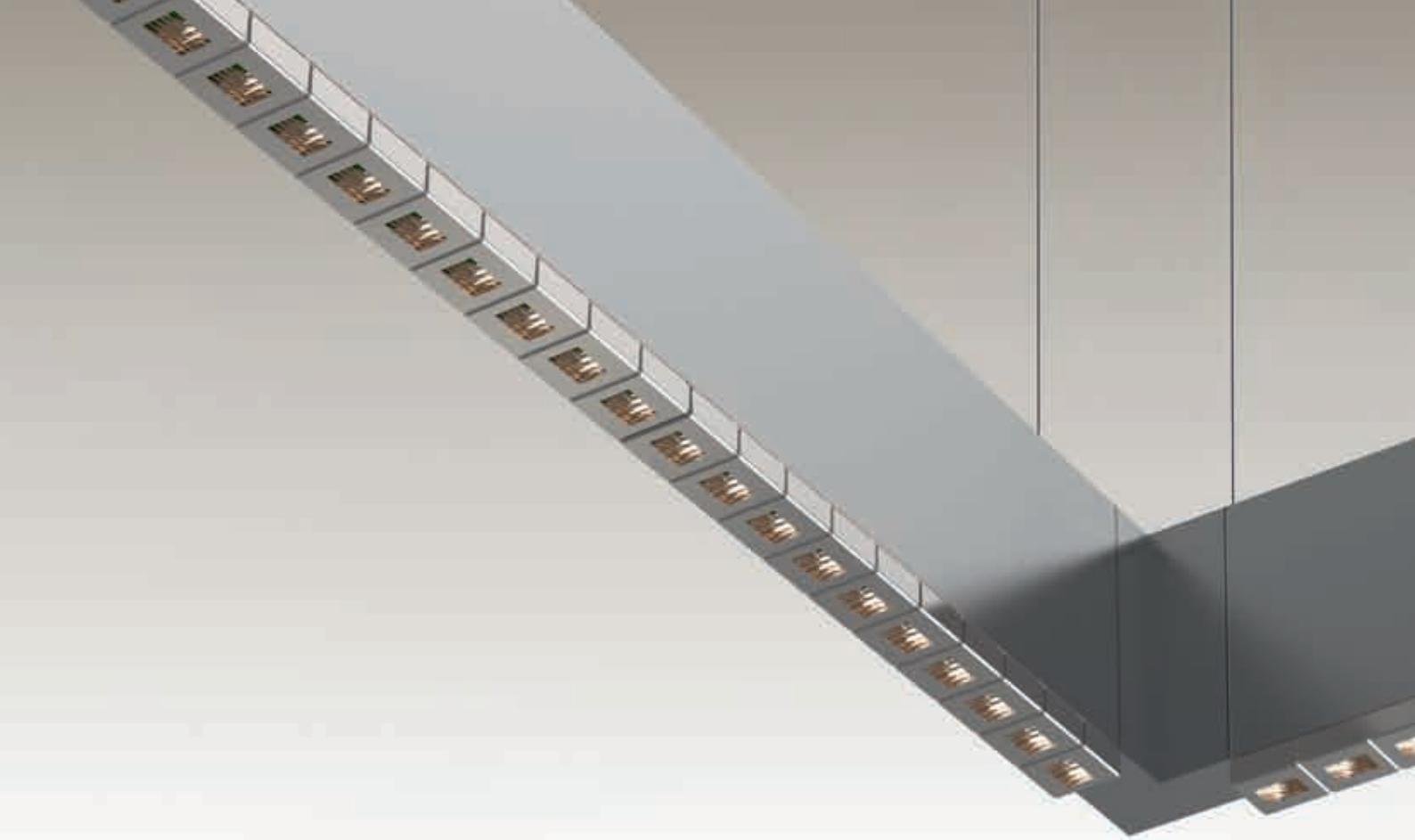
The connection can be linear and also at 90 ° in order to allow better light distribution.

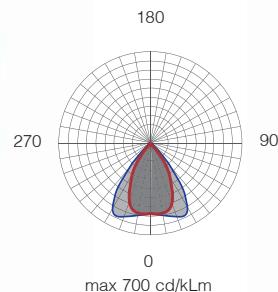
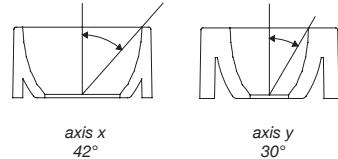
The system can be configured over and over again without any technical support, satisfying a full range of physical and emotional needs.

Tre best performs as a complete and multifunctional system. It is flexible and responds extraordinary well to the needs of contemporary workspaces.

With few elements, it ensures proper light amplitude and deep modulation.







COLOUR



STANDARD

3000 K Ra 80

SPECIFICATION

IP20

① power supply included

LED life 80.000 hours

MATERIALS

Alluminio lucidato o verniciato - ABS metallizzato
Polished or painted aluminium - metallized ABS

**120 / DIRECT EMISSION**

LED	η Lm/W	R %	$\eta_{lampada}$ Lm/W
120x2 cm 60 LED X 0,28 W	118	85	100

16,8 W Tot - Total LED flux 1980 Lm - Total flux 1685 Lm - CCT 3000K - Ra 80

120 / INDIRECT EMISSION

120x2 cm 50 LED X 0,28 W	118	85	100
------------------------------------	-----	----	-----

14 W Tot - Total LED flux 1650 Lm - Total flux 1400 Lm - CCT 3000K - Ra 80

80 / DIRECT EMISSION

80x2 cm 40 LED X 0,28 W	118	85	100
-----------------------------------	-----	----	-----

11 W Tot - Total LED flux 1320 Lm - Total flux 1122 Lm - CCT 3000K - Ra 80

80 / INDIRECT EMISSION

80x2 cm 30 LED X 0,28 W	118	85	100
-----------------------------------	-----	----	-----

8,4 W Tot - Total LED flux 990 Lm - Total flux 840 Lm - CCT 3000K - Ra 80

60 / DIRECT EMISSION

60x2 cm 30 LED X 0,28 W	118	85	100
-----------------------------------	-----	----	-----

8,4 W Tot - Total LED flux 990 Lm - Total flux 840 Lm - CCT 3000K - Ra 80

60 / INDIRECT EMISSION

60x2 cm 20 LED X 0,28 W	118	85	100
-----------------------------------	-----	----	-----

5,6 W Tot - Total LED flux 600 Lm - Total flux 510 Lm - CCT 3000K - Ra 80

40 / DIRECT EMISSION

40x2 cm 20 LED X 0,28 W	118	85	100
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5,6 W Tot - Total LED flux 600 Lm - Total flux 510 Lm - CCT 3000K - Ra 80

40 / INDIRECT EMISSION

40x2 cm 10 LED X 0,28 W	118	85	100
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2,8 W Tot - Total LED flux 330 Lm - Total flux 280 Lm - CCT 3000K - Ra 80

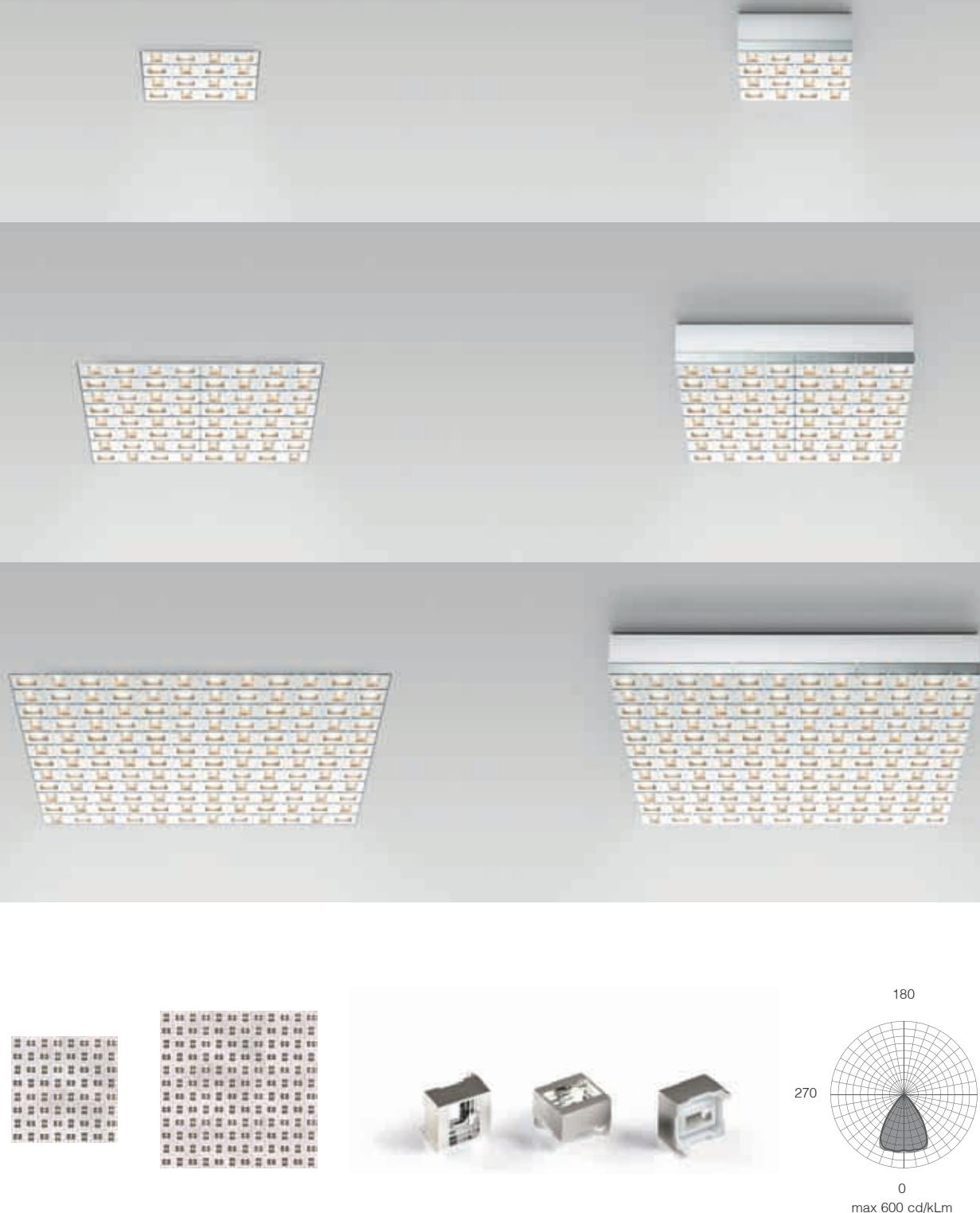
40 / CONNECTOR

FINAL

**20 / CONNECTOR**

L-SHAPED





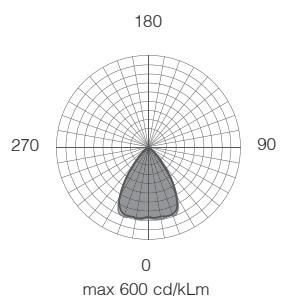
POWER CIRCUIT
4,5 W : 16 LED x 0,28 W
17,5 W : 64 LED x 0,28 W
39 W : 144 LED x 0,28 W

COLOUR
◇
◆
◆◆

STANDARD
3000 K Ra 85
OPTIONAL
4000 K Ra 80

SPECIFICATION
IP20
① power supply included only in SMD version LED life 80.000 hours

MATERIALS
Alluminio lucidato o verniciato - circuito stampato Polished or painted aluminium - printed circuit board



LED	η Lm / W	R %	$\eta_{lampada}$ Lm / W
8x8 cm 16 LED X 0,28 W	118	85	103
4,5 W Tot - Total LED flux 531 Lm - Total flux 463,5 Lm - CCT 3000K - Ra 80			
16x16 cm 64 LED X 0,28 W	118	85	103
17,5 W Tot - Total LED flux 2065 Lm - Total flux 1802,5 Lm - CCT 3000K - Ra 80			
24x24 cm 144 LED X 0,28 W	118	85	103
39 W Tot - Total LED flux 4602 Lm - Total flux 4017 Lm - CCT 3000K - Ra 80			





Il sistema Due rappresenta un cambio di paradigma nel modo di interpretare la luce, grazie ad una sintesi tra la tecnologia LED di ultima generazione, le innovative ottiche rotosimmetriche e la suddivisione delle potenze e delle emissioni installate. Due definisce una luce down light comfort, morbida nell'ambiente, attraverso l'utilizzo di ottiche con emissione perfettamente controllata. Con un ottimo rendimento, risultato dalle proprietà geometriche e materiche delle ottiche, Due garantisce consumi nettamente inferiori a parità di illuminamenti ottenuti rispetto agli attuali sistemi down light ad alogenri o ai tradizionali apparecchi dark da ufficio a fluorescenti. Dialoga perfettamente con qualsiasi situazione spaziale esistente permettendo un aggiornamento tecnologico sia nelle performance che nel impegno energetico e gestionale, adattandosi anche a sostituire corpi illuminanti precedentemente installati.

Due system represents a paradigm change in the way of interpreting the light, thanks to a synthesis between the latest LED technology, the innovative circular symmetrical optics and the division of installed power and emissions. Due emits soft LED downlight through high performance optics that are employed to control light distribution. Thanks to an excellent performance, resulting from the geometric and material properties of the optics, Due guarantees significantly lower energy consumption (for the same illuminance) than the existing down light halogen systems or than the traditional office fluorescent dark appliances. It interacts perfectly with any existing spatial technology, allowing a technological updating both in performances and in managing and energy commitment, offering the possibility of replacing a previously installed lighting device.

DUE 200



Easy replacement

existing hole $17 \text{ cm} < \Delta^{**} < 19 \text{ cm}$

12 LED

total 25 W – 2000 Lm

** Δ interval of possible dimensions of the holes

Recessed fix



Recessed adjustable



Semi recessed

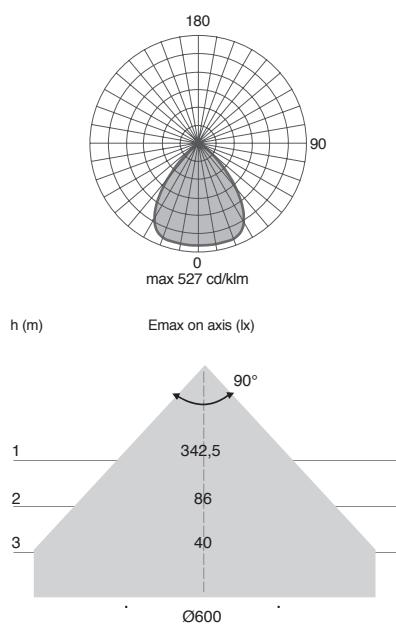


DUE 120: 4 LED x 2,1 W

total 8,5 W - total flux 650 Lm

3000 K Ra 85 (4000 K Ra 85 +30% flux)

tolerance $\pm 7\%$



$7 \text{ cm} < \Delta^{**} < 11 \text{ cm}$

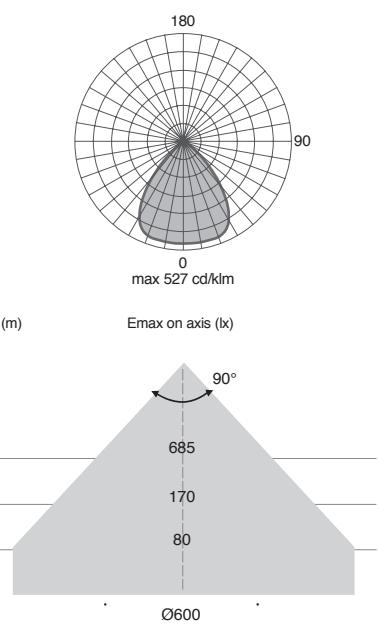


DUE 160: 8 LED x 2,1 W

total 17 W - total flux 1300 Lm

3000 K Ra 85 (4000 K Ra 80 +30% flux)

tolerance $\pm 7\%$



$\eta \text{ lm/W}$	R	Lamp lm/W	$\eta \text{ lm/W}$	R	Lamp lm/W
100	87%	87	100	87%	87

** Δ interval of possible dimensions of the holes

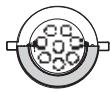


DUE 200: 12 LED x 2,1 W

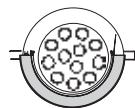
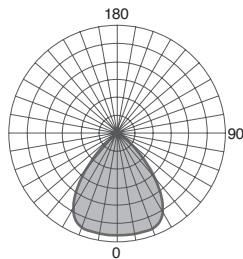
total 25 W - total flux 2000 Lm

3000 K Ra 85 (4000 K Ra 80 +30% flux)

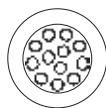
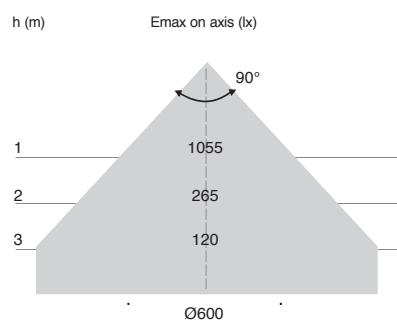
tolerance $\pm 7\%$



$11 \text{ cm} < \Delta^{**} < 15 \text{ cm}$



$15 \text{ cm} < \Delta^{**} < 19 \text{ cm}$



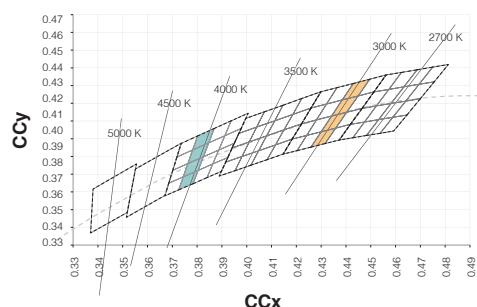
$\eta \text{ Lm/W}$	R	lamp Lm/W
100	87%	87

DOWN LIGHT

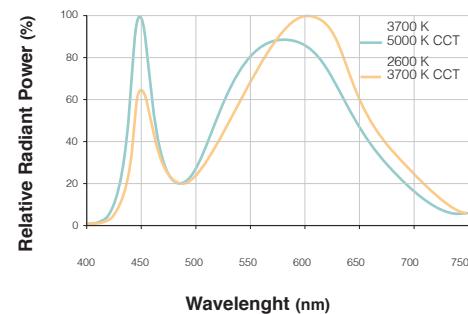
Emissione limitata al di sotto dei 45° - Effetto multi ombra assente.
Limited emission below 45° - Multi-shadow effect absent.

NEUTRAL WHITE 4000K / CRI (Ra) 85
WARM WHITE 3000K / CRI (Ra) 90

BIN



SPECTRAL DIAGRAM



OPTIONAL LENSES



REFLECTORS

ABS metallizzato, metallized ABS



OPTIONAL LENSES

6°-20°-38°

holder nero, bianco o trasparente
holder black, white or transparent



POWER CIRCUIT

8,5 W : 4 LED x 2,1 W
17 W : 8 LED x 2,1 W
25 W : 12 LED x 2,1 W

COLOUR

- ◆
- ◆
- ◆

STANDARD

3000 K Ra 85

OPTIONAL

4000 K Ra 80

SPECIFICATION

IP20

(^①) power supply included only in SMD version

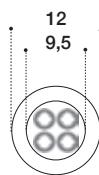
LED life 80.000 hours

MATERIALS

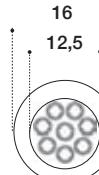
Alluminio lucidato o verniciato - circuito stampato
Polished or painted aluminium - printed circuit board

DUE SYSTEM - EASY REPLACEMENT PROGRAM - Carlotta de Bevilacqua, Teresa Caserta 2012

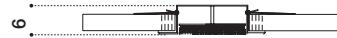
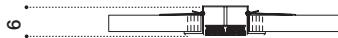
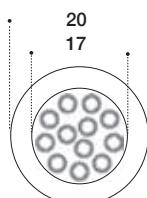
DUE 120 recessed fix



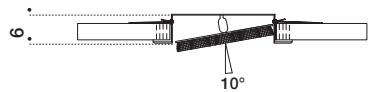
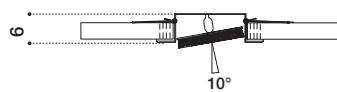
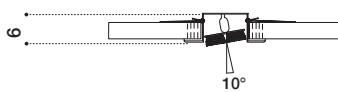
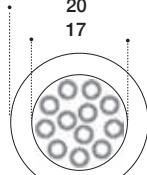
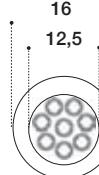
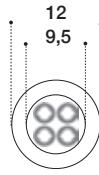
DUE 160 recessed fix



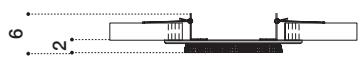
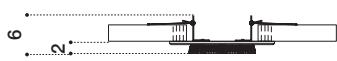
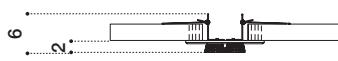
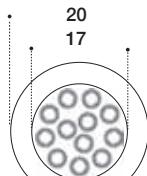
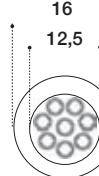
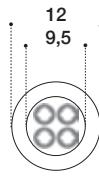
DUE 200 recessed fix



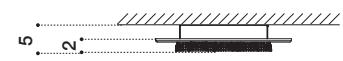
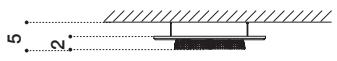
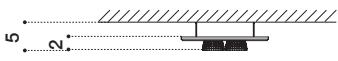
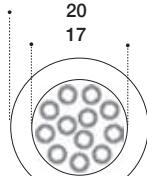
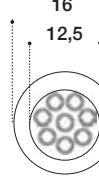
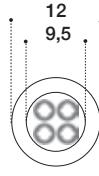
DUE 120 recessed adjustable



DUE 120 semirecessed



DUE 120 SMD







DUE QUADRA - *Carlotta de Bevilacqua, Teresa Caserta 2012*





STANDARD

3700 K Ra 80



OPTIONAL

3000 K Ra 85



COLOR



SPECIFICATION

IP20 F III



LED life 80.000 hours

MATERIALS

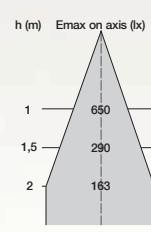
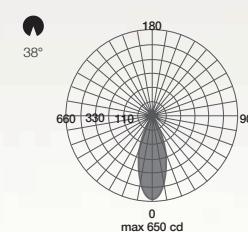
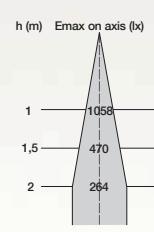
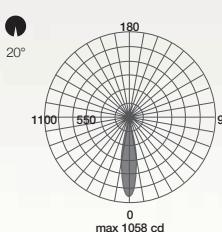
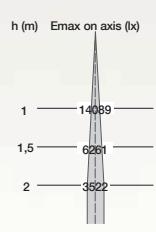
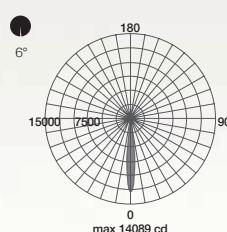
Alluminio - circuito stampato - metallo verniciato,
Aluminium - printed circuit board - painted metal

Patent Pending N° MI2010A000185
LEED® certification's credits

4 LED x 1,5 W – total 6 W – total flux 498 Lm

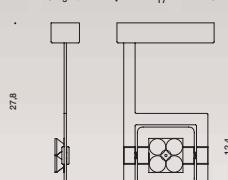
3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$

	η Lm/W	R	η lamp Lm/W
	100	83%	83

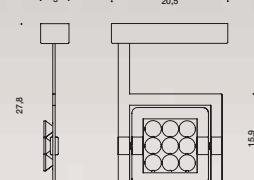




4 LED



9 LED



9 LED x 1 W – total 9 W – total flux 747 Lm

3700 K Ra 80 (3000 K Ra 85 -30% flux) - tolerance of $\pm 7\%$

η Lm/W

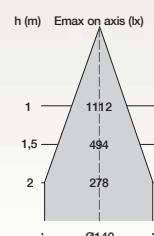
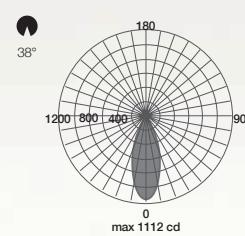
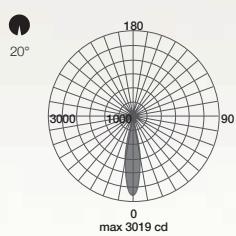
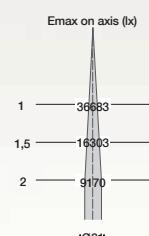
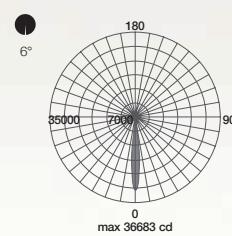
R

η lamp Lm/W

100

83%

83



La ricerca di OBR affronta nuovi sistemi di generazione spaziale che scambiano con l'ambiente e interagiscono con l'uomo.

Il progetto prevede un sistema aperto costruito da una serie di moduli che creano energia e la accumulano localmente, che si nutrono di anidride carbonica e producono ossigeno.

Ogni modulo ha una duplice spazialità: una interna che permette l'inserimento di diversi contenuti e una esterna che permette l'assemblaggio di più strutture modulari, generando architettura. I moduli possono configurarsi come oggetto autonomo, se considerati singolarmente, oppure come infiniti sistemi se messi in serie tra loro.

Il modulo base consiste in una struttura cubica, trasparente e riflettente, ed è dotato di un'interfaccia attraverso la quale interagire con gli altri moduli. L'interfaccia di ogni modulo diviene il campo dove si genera l'interazione del sistema con l'uomo e l'ambiente.

Essendo il contenuto di ogni modulo "aperto" ed implementabile, il sistema di moduli costruisce, alle differenti scale, un paesaggio intensivo personalizzabile di cui "aver cura".

La giustapposizione dei moduli e le proprietà intrinseche del vetro producono inoltre effetti caleidoscopici dati dalla riflessione e/o trasparenza dell'ambiente esterno e di quello interno.

L'unione di più moduli attivati generano sistemi che possono configurare delle spatial performance.

Sistema #1: small (seduta, tavolo, libreria, parete divisoria, controsoffitto, totem, etc.)

Sistema #2: large (facciata porosa, copertura energetica, albero artificiale, superfici parametriche complesse, etc.)

Sistema #3: energy (pala eolica, bicicletta, etc.)

Sistema #4: ecosistema (un ecosistema naturale in equilibrio)

Sistema #n: ...

OBR's research is appropriate to new generation's space systems that interact with the environment and men.

The project involves an open system built from a series of modules that create and accumulate energy locally. The modules feed from carbon dioxide and produce oxygen.

Each module has two spaces: an internal that allows different content and an external that allows the assembly of many modular structures, generating architectural elements to enhance the environment. The modules may take the form of an autonomous object if considered individually, or as infinite systems if placed in series with each other.

The base module consists of a transparent and reflective cubic structure, equipped with an interface that can be connected with other modules. The interface of each module becomes the space where there is an interaction of the system between men and the environment.

Since the content of each module is "open" and implementable, the module system builds - at different scales - a customizable "landscape" which you can "take care of".

The juxtaposition of the modules and the intrinsic properties of the glass also produce kaleidoscopic effects, reflections and / or transparency of external and internal environments.

The combination of different types of modules can generate diverse configurations, setting up spatial performances.

System # 1: small (seats, table, bookshelf, partition wall, suspended ceiling, totem, etc.).

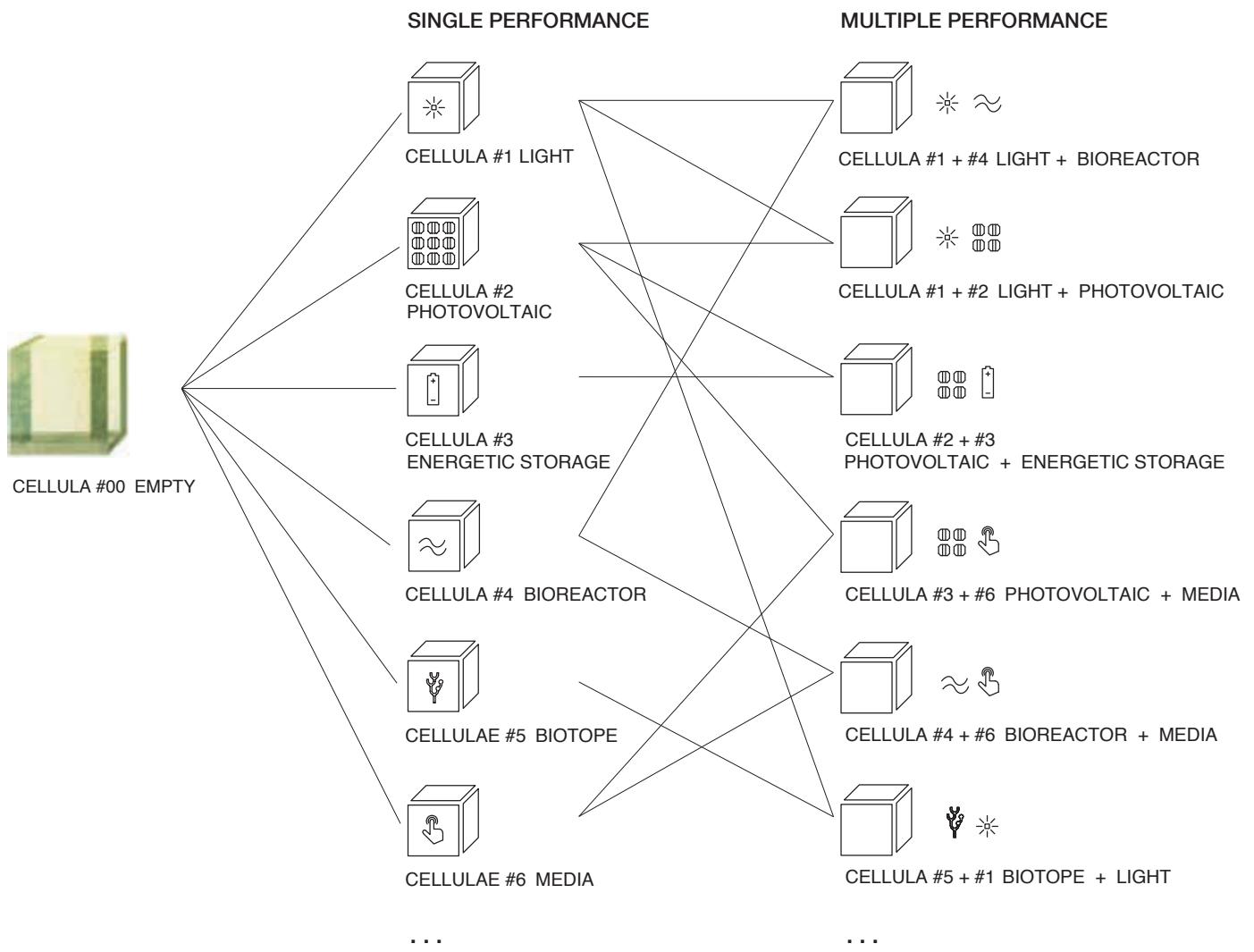
System # 2: large (porous facade, energy coverage, artificial tree, complex parametric surfaces, etc.)

System # 3: energy (wind turbine, bicycle, etc.).

System # 4: ecosystem (a natural ecosystem in balance)

System # n ...





DIMENSION	COLOUR	SPECIFICATION	MATERIALS
50X50X50 cm	◊	IP20 / IP65 ① power supply included only in SMD version LED life 80.000 hours	Vetro extrachiaro o acidato - acciaio lucidato a specchio - alluminio Clear or frosted glass - mirror polished steel - aluminium



UNA PRO WHITE

- . 9 LED x 1 W
- . LENS 6° / 20° / 38°
- IP20 ①

STANDARD

3700 K Ra 80

OPTIONAL

3000 K Ra 85



UNA PRO IP65

- . 9 LED x 1 W
- . LENS 6° / 20° / 38°
- IP65 ①

STANDARD

3700 K Ra 80

OPTIONAL

3000 K Ra 85



UNA PRO RGB / RWB

- . 16 LED x 1 W
- . LENS 6° / 20° / 38°
- IP20 ①

STANDARD

3700 K Ra 80

OPTIONAL

3000 K Ra 85



CELLULA #1 Luce: i Led diffondono luce nell'ambiente - **Light:** LED spreads light to the environment



CELLULA #2 Fotovoltaico: un film fotovoltaico trasparente applicato sul modulo trasforma luce in energia - **Photovoltaic:** PV transparent film applied to the module transforming light into energy



CELLULA #3 Storage energetico: una batteria al litio accumula l'energia pulita prodotta dal sistema - **Energetic storage:** a lithium battery stores clean energy produced by the system



CELLULA #4 Bioreattore: le alghe assorbono luce e anidride carbonica e rilasciano ossigeno producendo biomassa - **Bioreactor:** algae absorbs light and carbon dioxide and releases oxygen producing biomass



CELLULA #5 Biotopo: un sistema vivente si autoalimenta - **Biotope:** a living system that is self-powered



CELLULA #6 Media: un computer touch screen comunica ed elabora contenuti - **Media:** a touch screen computer processes and communicates its content





SOL sospensione - Marco Zanuso Jr, Christophe Mathieu 2013

material diffuser	material structure	colour	symbols	emission	
(9)	(3)	◆	IP20		
lamping		η Lm/W	R%	η lamp Lm/W	
1LED x 17W 17 W tot Total LED flux 1880 Lm Total flux 1572,5 Lm CCT 3000K Ra 80	110	84%	92,5		

200

Ø10,5

20,5

Ø10,5

10,5

Ø10,5

270

Ø10,5

180

90

0

800 cd/km





ROTORLITE sospensione - *Carlotta de Bevilacqua, Laura Pessoni 2013*

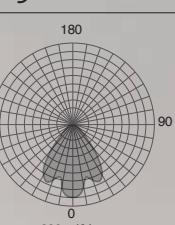
material diffuser	material structure	colour	symbols	emission	
(9)	(2)	◆ ◇ ◇	IP20		
lamping		η Lm/W	R	η lamp Lm/W	
1LED x 17W 17 W tot Total LED flux 1880 Lm Total LED flux 1462 Lm CCT 3000K Ra 80	110	78%	86		



27

27

max 200



180

270

0

289 cd/klm





ROTORLITE parete - Carlotta de Bevilacqua, Laura Pessoni 2013

material diffuser	material structure	colour	symbols	emission	
(9)	(2)	◆◆◆	IP20 F (±)		
lamping		η Lm/W	R%	η lamp Lm/W	
1LED x 17W 17 W tot Total flux LED 1880 Lm Total flux 1462 Lm CCT 3000K Ra 80	110	78	86		

13,5 17,5
16,5 15

180 90
270 0
537 cd/klm

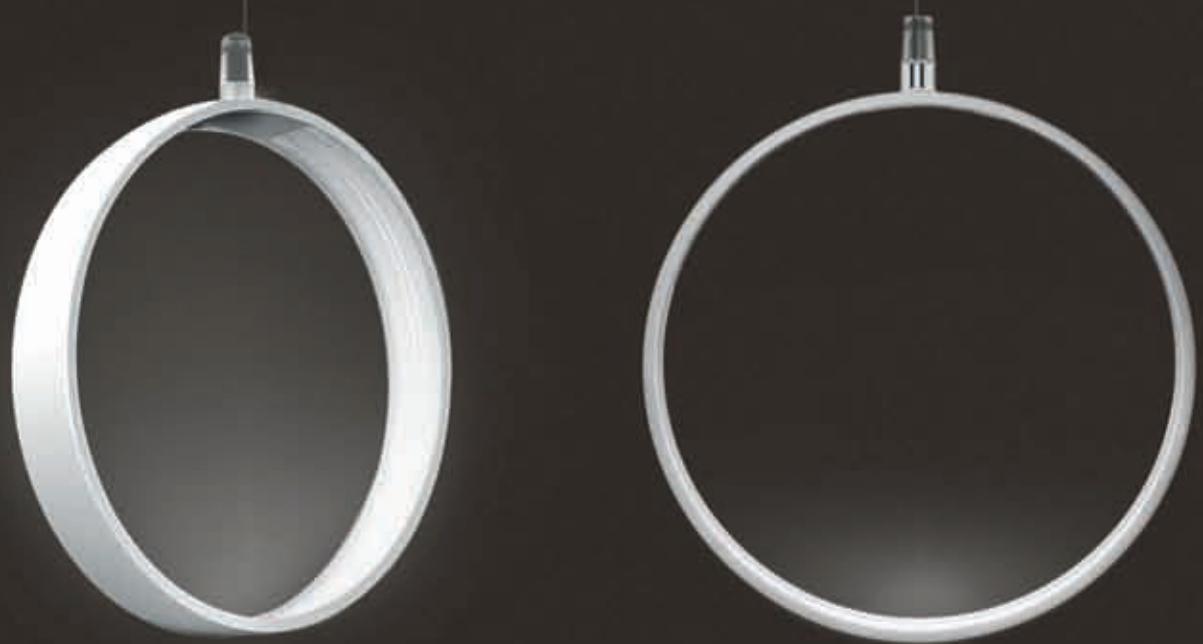




ECLITTICA 40 sospensione - Carlotta de Bevilacqua - 2013

material diffuser	material structure	colour	symbols	
(9)	(2) / (11)	◆ ♦ ♦	IP20	(●)
lamping		η Lm/W	R	η lamp Lm/W
Ø 40 : tot 21W LED : 21 x 1W Total Flux 2100 Lm	100	89%	89	
Ø20 : tot 20W LED : 1LED X 20W total Flux 1800 Lm	90	81%	73	
CCT 3000K Ra 80				





ECLITTICA 20 sospensione - *Carlotta de Bevilacqua* - 2013

material diffuser	material structure	colour	symbols	
(9)	(2) / (11)	◆ ♦ ◇	IP20 F	(●)
lamping		η Lm/W	R	η lamp Lm/W
Ø 40: tot 21W LED : 21 x 1W Total Flux 2100 Lm		100	89%	89
Ø20 : tot 20W LED : 1LED X 20W total Flux 1800 Lm		90	81%	73
CCT 3000K Ra 80				

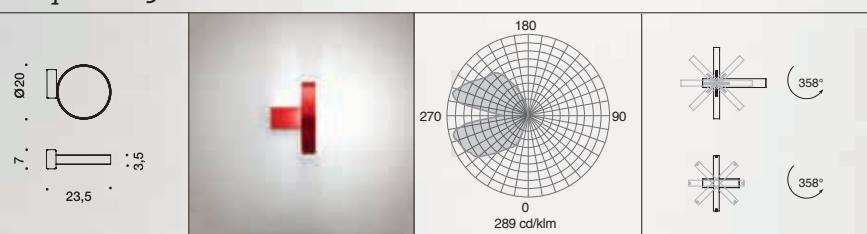






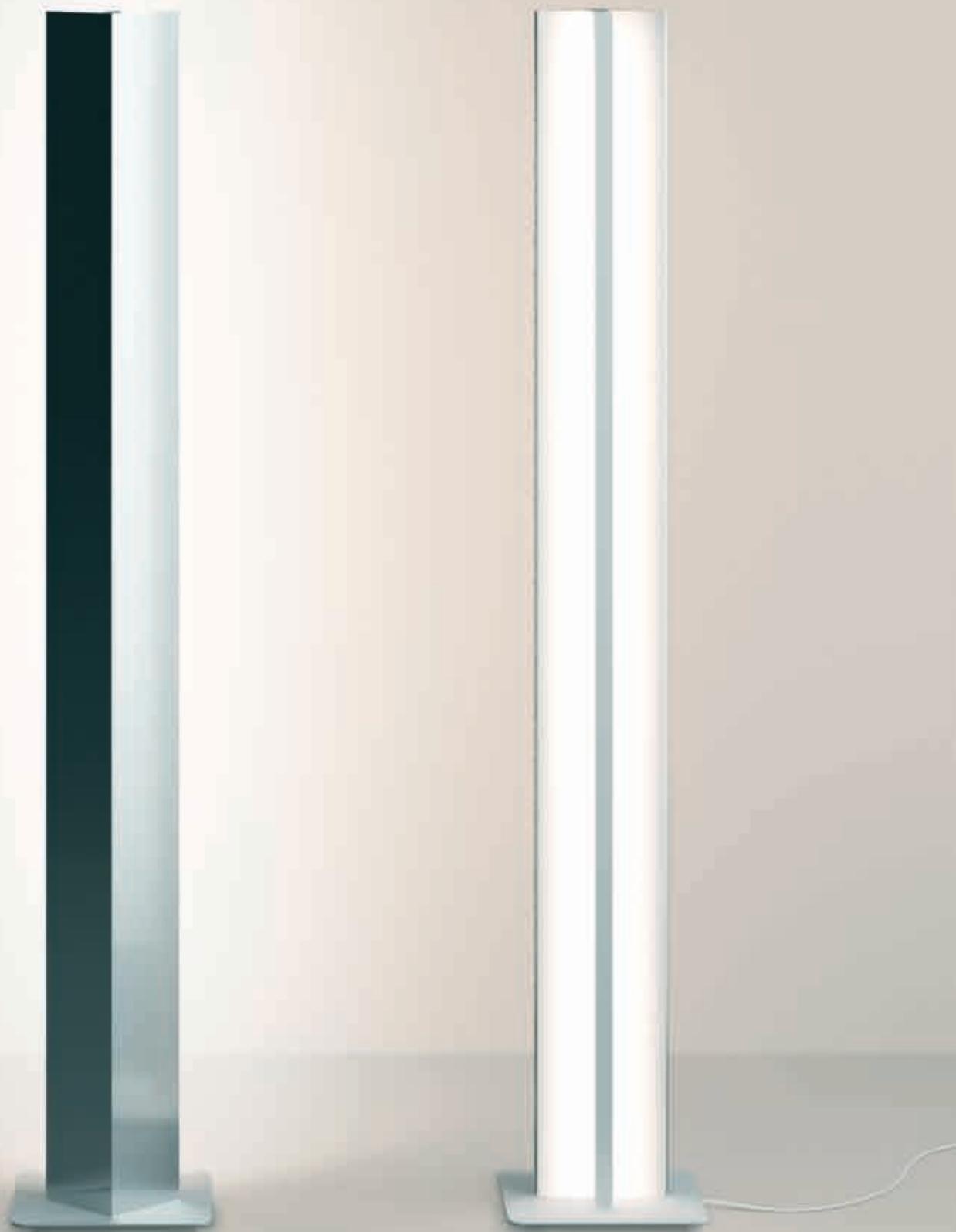
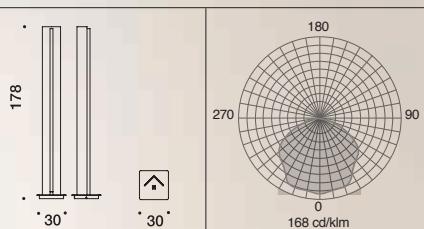
ECLITTICA 20 parete / soffitto - Carlotta de Bevilacqua - 2013

material diffuser	material structure	colour	symbols	emission
(9)	(2) + (11)	◆ ♦ ♦	IP20	(•)
lampung		η Lm/W	R	η lamp Lm/W
Ø20 : tot 20W LED : 1LED X 20W total LED flux 1800 Lm total flux 1460 CCT 3000K Ra 80	90	81%	73	



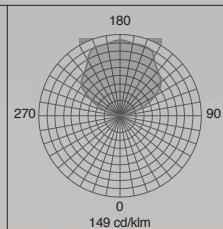
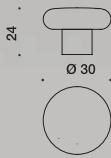
IANUS - Pierluigi Nicolin 2013

material diffuser	material structure	colour	symbols	emission
	(3) + (6)	◇	IP20	●
lamping		η Lm/W	R	η lamp Lm/W
132 LED x 0,15 W 20W Tot Total LED flux 2520 Lm Total flux 1340 Lm CCT 3000K Ra 80	126	53%	67	



ITKA tavolo - Naoto Fukasawa 2013

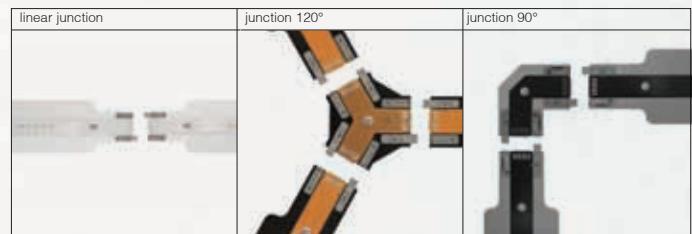
material diffuser	material structure	colour	symbols	emission
(5)	(7) / (8)	◇◆◇	IP20 F ◆	(●)
lamping		1 Lm/W	R	1 lamp Lm/W
1 LED x 13W 13W tot total LED flux 1300 Lm total flux 936 Lm CCT 3000K Ra 80	100	72%	72	





PARTICULE ELEMENTAIRE - *Matali Crasset 2013*

material diffuser	material structure	colour	symbols	emission	
(12)	(1)	◇	IP20  		
lamping		η Lm/W	R%	η lamp Lm/W	
1LED X 13 W 13W Tot Total LED flux 1150 Lm Total flux 832 Lm CCT 3000K Ra 80		88,5	72	64	



100% SUSPENSION BASIC - Ross Lovegrove 2013

material diffuser	material structure	colour		emission	connecting elements 180°/120°/90°	
	(2)	◆ ◇ ◇	IP20			
lamping		η Lm/W	R%	η lamp Lm/W		
Tot: 32,7W direct: 20x1,09W LED indirect: 10x1,09W LED Total LED flux 3139 Total flux 2951 CCT 4000K Ra 80	98	94%		92%		

SORGENTI, LIGHT SOURCES, SOURCES, LAMPEN

(T) Trasformatore incluso, transformer included, transformateur compris, transformer inbegriffen

MATERIALI, MATERIALS, MATÉRIELS, MATERIALEN

- (1) Alluminio / aluminium
- (2) Alluminio verniciato, painted aluminium
- (3) Metallo verniciato, painted metal
- (4) Vetro naturale, natural glass
- (5) Vetro acidato, natural or acid etched
- (6) Vetro specchiato, mirror glass
- (7) Ceramica, ceramic
- (8) Marmo, marble
- (9) Metacrilato, methacrylate
- (10) ABS metallizzato, ABS metallized
- (11) Circuito stampato flessibile, flexible printed circuit board, Circuit imprimé flexible, flexible Leiterplatte
- (12) Tyvec

COLORI, COLOURS, COULEURS, FARBEN

- ◇ Bianco, white, blanc, weiß
- ◆ Nero, black
- ◇ Grigio chiaro, light grey
- ◆ Silver, silver
- ◆ Grigio calamina, calamine-grey
- ◆ Rosso, red
- ◆ Bronzo, bronze
- ◆ Oro, gold

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