









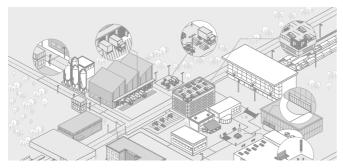






Holistic lighting solutions integrate both the interior and exterior of a building because an ideally coordinated lighting concept extends through all areas. On the following pages we present you with our enhanced portfolio for light around the building – lighting solutions offering orientation and safety thanks to perfectly illuminated circulation zones and brightly lit car parks. Such lighting increases the appeal of buildings and their surroundings with use of sophisticated accents, thus creating an atmosphere of wellbeing, and with material qualities and efficiency also able to resist the extreme conditions of industrial outdoor areas. TRILUX lighting solutions also make an important contribution to the safety of buildings.

Whatever your requirements, we provide you with easy access to ideally coordinated, individual light. Custom-designed, future-compliant components and products are transformed into solutions from a single cast in terms of technology and design. With us as a partner you can look forward to optimum results because planning, technology and a product portfolio tailor-made for indoor and outdoor applications all come from a single source and are ideally matched. This is what we call SIMPLIFY YOUR LIGHT.





Cityscape **Applications** 06 04

PRODUCT PORTFOLIO



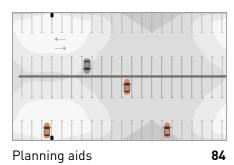
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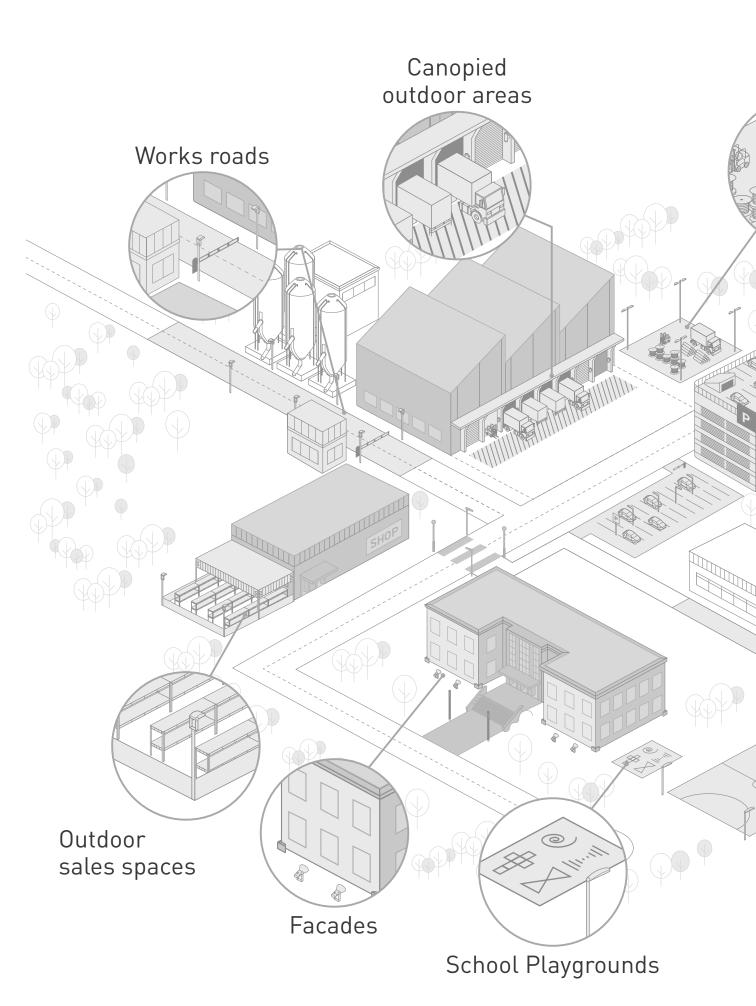
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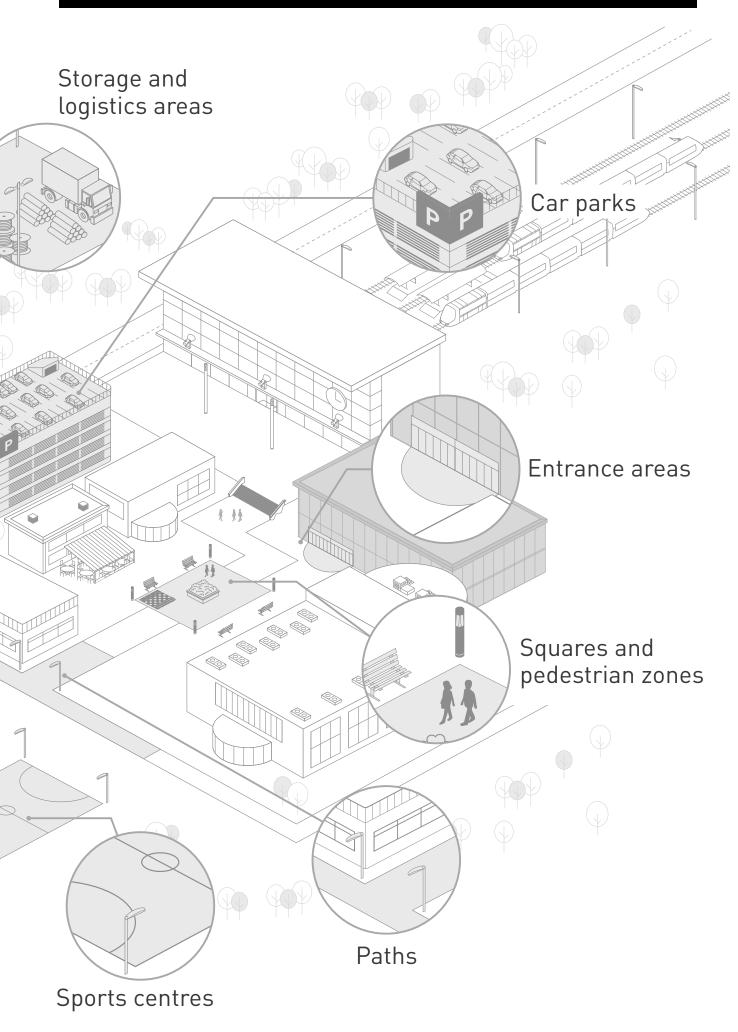






90 TRILUX Online





The right solution for any application

For many companies the external lighting of their corporate buildings serves as an extended business card. To this end, functional, aesthetic and emotional aspects are paramount. Primarily, areas around buildings must be illuminated to enable quick and reliable orientation for employees and visitors. Furthermore, the building architecture and its surroundings can be showcased in a sophisticated way by using individually adapted and homogeneous lighting concepts. With their modern and purist design, TRILUX LED solutions blend harmoniously into their surroundings while simultaneously providing attractive accents.

More information on office lighting is available at www.trilux.com/office



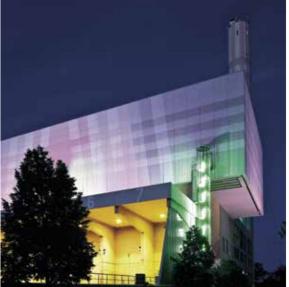


Our light is as tough as they come

Biting cold, oppressive heat, driving rain or cutting winds – light in industrial outdoor areas must not only withstand adverse weather but also meet the extreme challenges of everyday operation. Incessant forklift truck and lorry traffic creates vibration; dirt and dust threaten to lodge into any gap or joint. Any light supposed to brave such surroundings has to withstand a lot – because only fail-safe light can fulfil its core task: ensuring safe working conditions for employees and suppliers. Despite all toughness, it goes without saying that we have not neglected system intelligence either. Efficient lighting technology, outstanding lifespans and simple maintenance help to keep a grip on costs.

More information on industrial lighting is available at **www.trilux.com/industry**





















Top of the class in lighting

When it comes to not only improving learning conditions in schools but also achieving more safety and security in outdoor applications, TRILUX offers holistic solutions. Weather- and impact-resistant as well as shock-proof luminaires provide ideal visual conditions in playgrounds and sports fields and help to minimise the risk of injury. LED systems from TRILUX are the first choice: unbeatable in terms of energy efficiency, they also score with robustness and superior design. Whether for new constructions or refurbishments, the use of LED technology significantly reduces electricity costs and unburdens the environment. When planned and implemented correctly, they therefore lay the foundation for a new level of quality in schools and education. TRILUX provides optimisation support for any lighting situation through its extensive service and product portfolio.

More information on lighting in educational facilities is available at www.trilux.com/education

How light stimulates purchases

Light is magical. It has the power to attract, it touches our souls, it can create moods and it influences our behaviour. In the shop and retail sector, light is a decisive factor when it comes to displaying products appealingly – in the best possible light, so to speak – whether indoors or outdoors. TRILUX lighting solutions confidently display merchandise and create ideal conditions for both buyers and sellers. To enable impressive shopping experiences for customers, the outdoor lighting concept is also vital. When used correctly, variable lighting concepts can highlight prestigious buildings such as shopping centres, outlets and retail parks in an ideal way. TRILUX offers an extensive portfolio of customisable lighting solutions for such applications. Attractive wall luminaire, bollard and column solutions allow for holistic lighting projects with a uniform overall appearance.

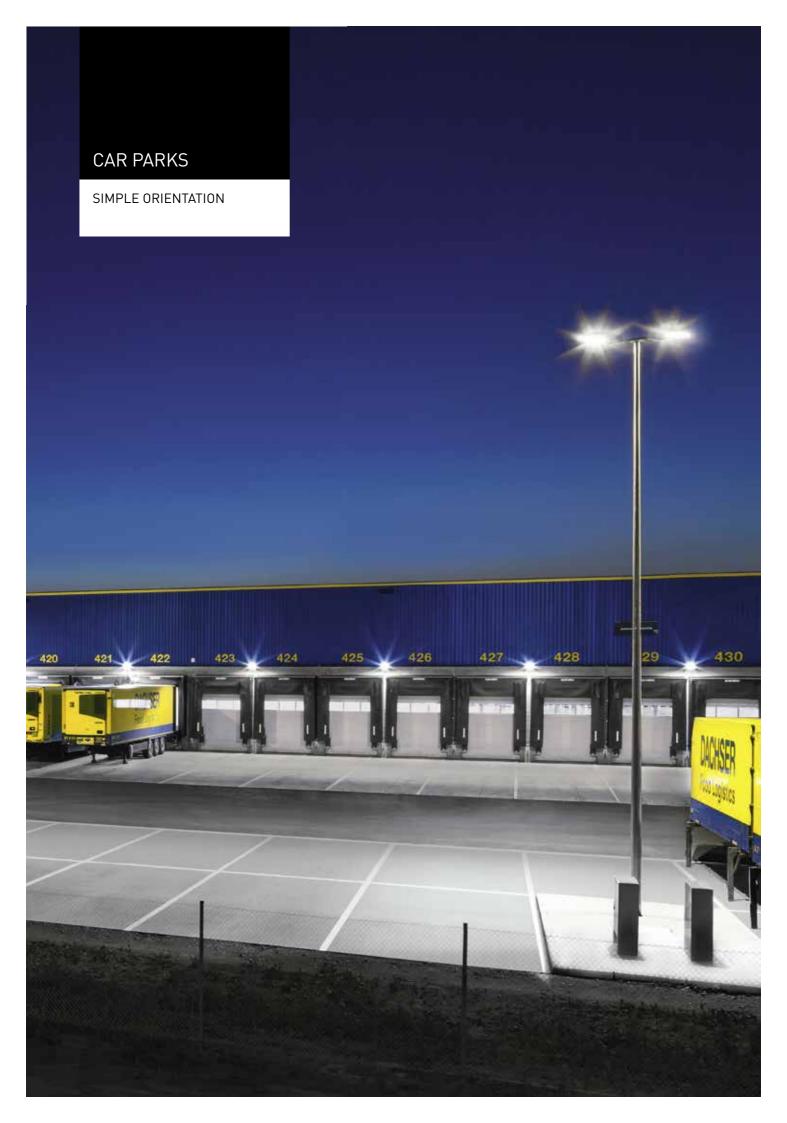
More information on shop & retail lighting is available at www.trilux.com/shop-retail



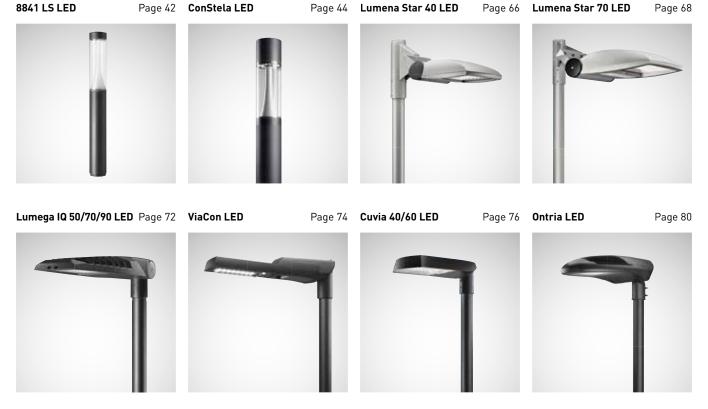


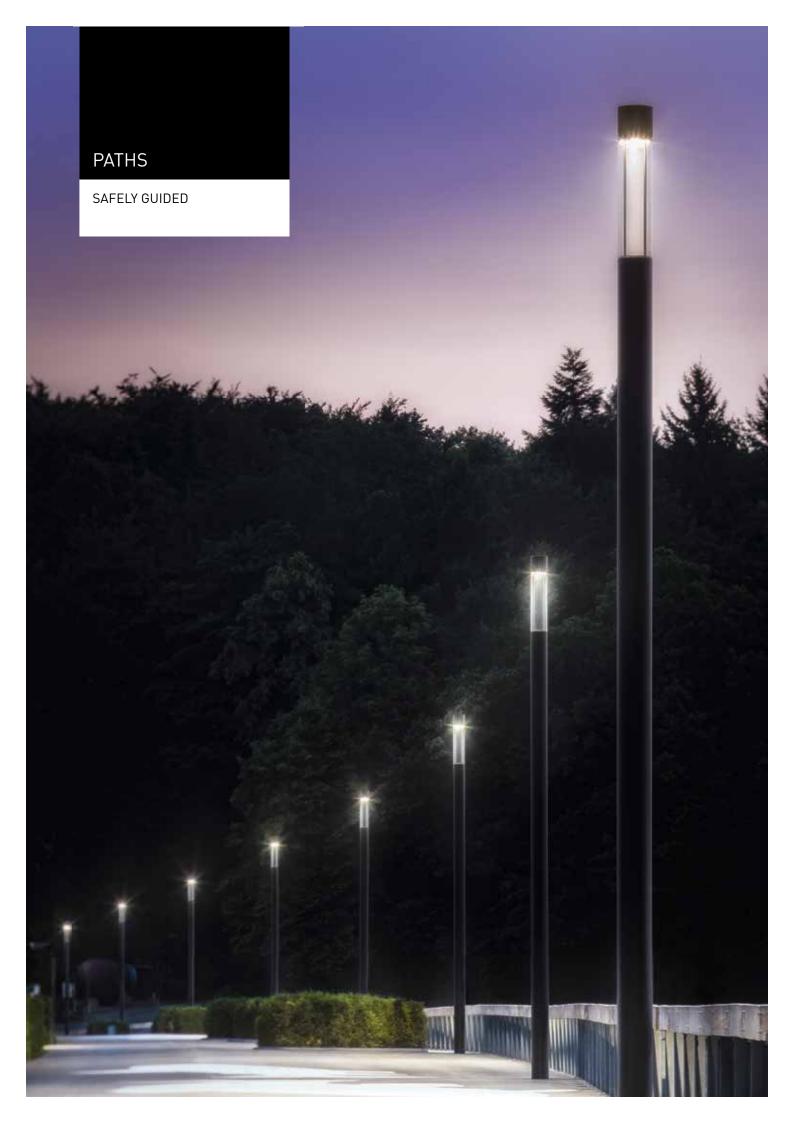






Safety and orientation are the top priority when illuminating car parks. Resistance to extreme weather conditions is also a must. It's here that TRILUX luminaires score points with innovative lighting technology, high quality of light and robust constructions. With their modern, purist designs they blend ideally into the surroundings and simultaneously set attractive accents. In this way both visitors and employees easily find their way around and gain a positive initial impression at the same time.

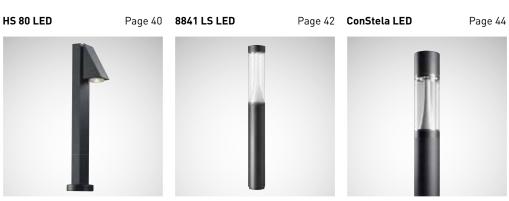


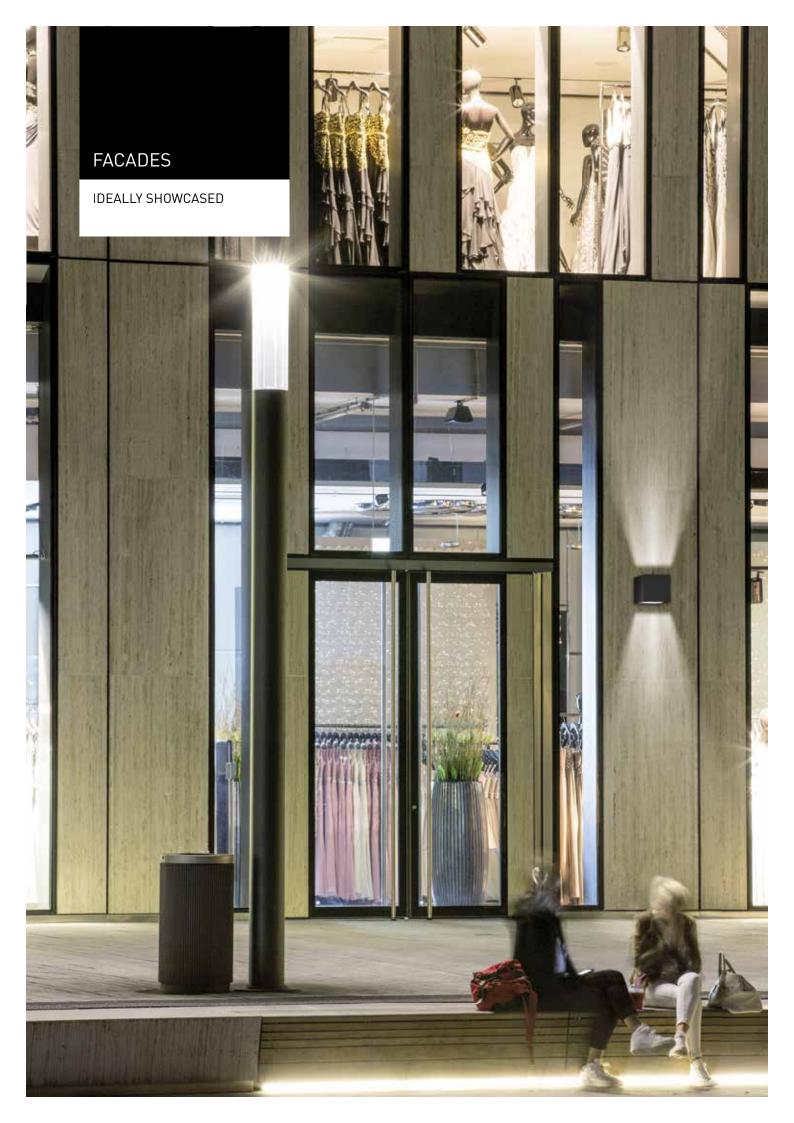




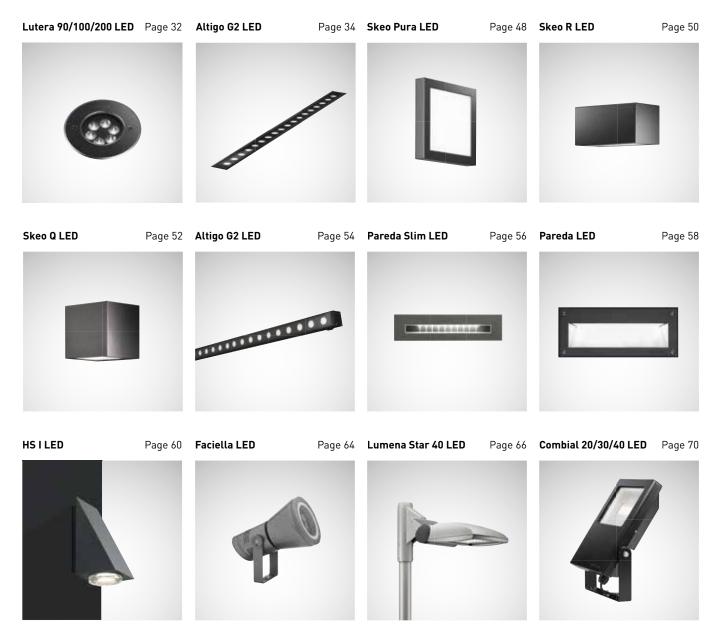
Path lighting has the primary aim of safely and securely accompanying visitors and employees during hours of darkness. An elevated protection rating and good material quality are essential for resisting adverse weather conditions in the long run. Furthermore, luminaires should blend harmoniously into any architecture and complement outdoor concepts in terms of light, style and design. A task that TRILUX luminaires fulfil with distinction.

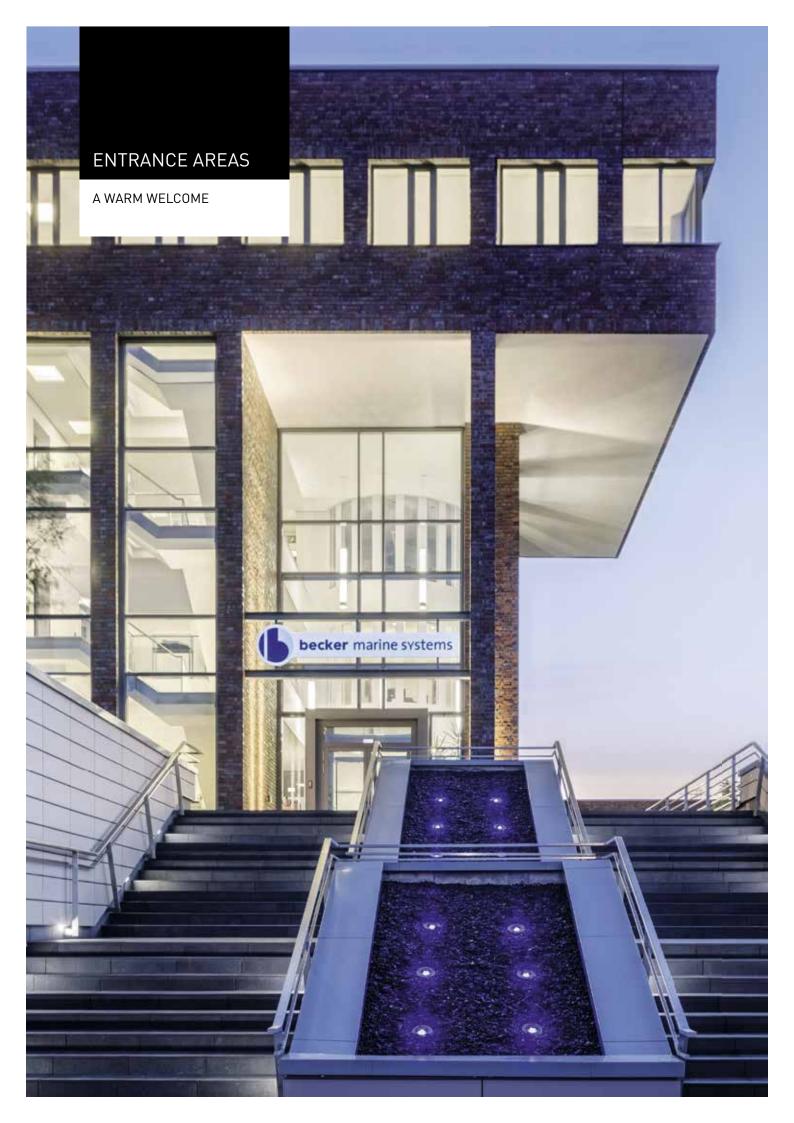






Outdoor lighting that serves to showcase, not only to illuminate. Whether it comes to accenting architectural details or highlighting complete buildings and objects – TRILUX facilitates contemporary facade illumination with a variety of products that effectively meet requirements strikingly, with high levels of energy efficiency. At the same time, visitors are provided with rapid and reliable orientation through the illumination of signage and entrance areas.

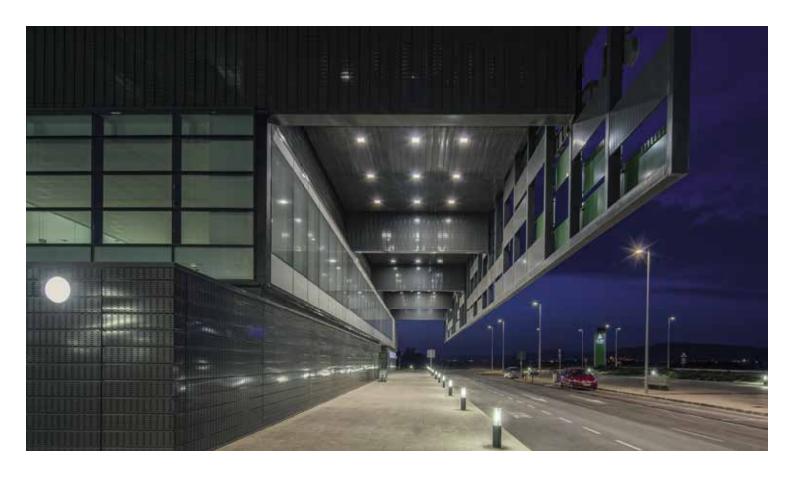




There are various reasons for illuminating entrance areas leading to a company buildings. An attractively illuminated entrance zone not only points the way for visitors and employees, but also provides improved orientation and illuminates possible tripping hazards such as stairs, thereby increasing safety. With the right lighting, any entrance is transformed into a real eye-catcher and creates an inviting atmosphere.

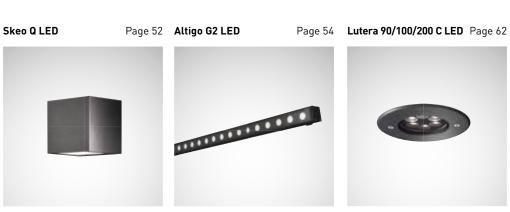






Cold, heat, rain and wind: canopied outdoor areas demand lighting solutions that withstand extreme conditions. Additional factors that influence functionality are heavy machinery, running motors, dirt and vibration. Ideal lighting solutions for canopied outdoor areas must be tough and reliable, have a long service life and must withstand extreme challenges – perfect preconditions for TRILUX luminaires.

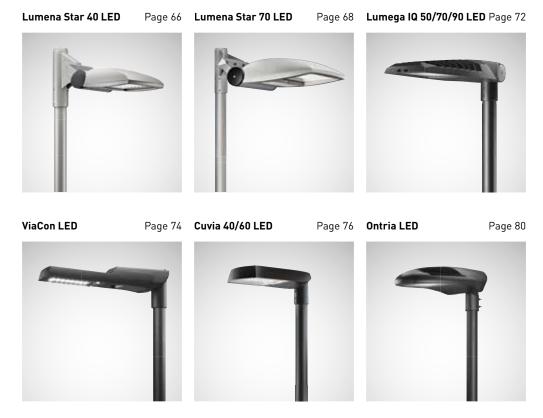








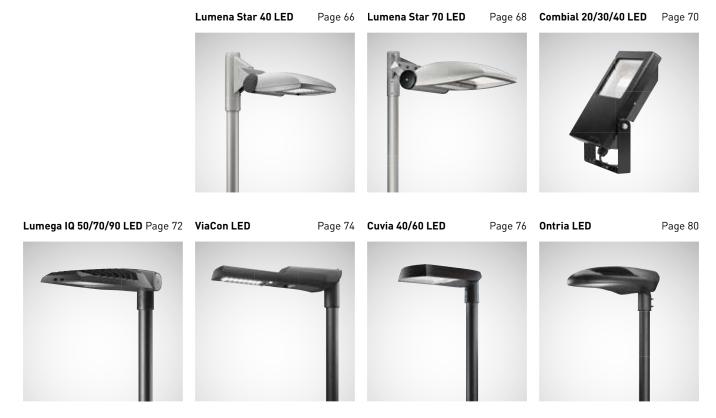
In the industrial sector the appropriate illumination of works roads is an important factor. This not only improves safety but also increases visual comfort to a great extent. TRILUX LED luminaires achieve simple orientation and improve accident prevention thanks to early detection of obstacles, which in turn facilitates work processes. And finally, they are precisely matched to their application area in terms of efficiency, durability and quality of materials.

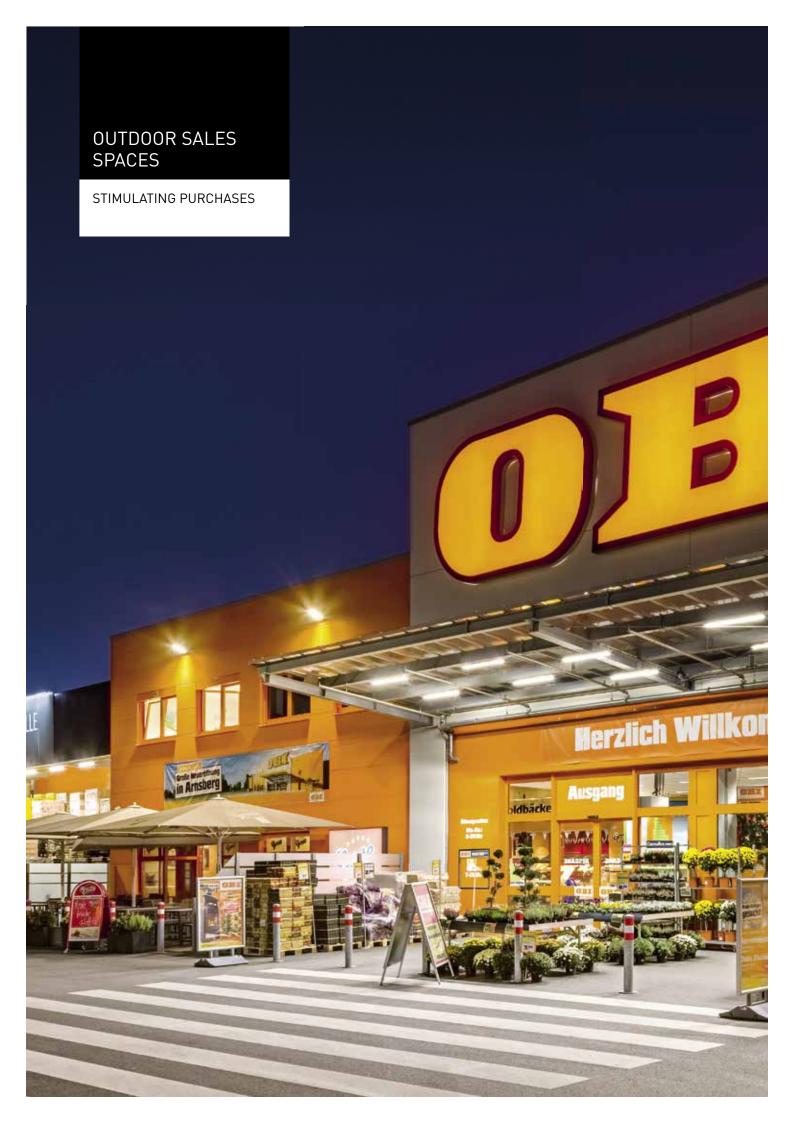






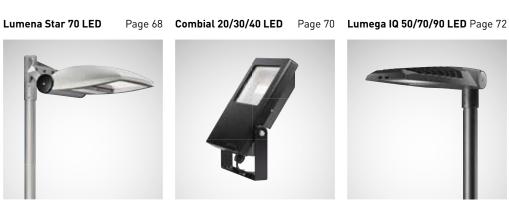
Illuminating outdoor storage facilities and distribution areas is a challenging task. It is a matter of guaranteeing optimum visual conditions at any time of the day and even in the most adverse weather conditions. People and vehicles must be able to move without danger, and be capable of swift orientation; labels and delivery notes should be detectable and legible at one glance. TRILUX lighting solutions feature high levels of functionality, efficient lighting technology and robust workmanship with elevated protection ratings and safety classes.

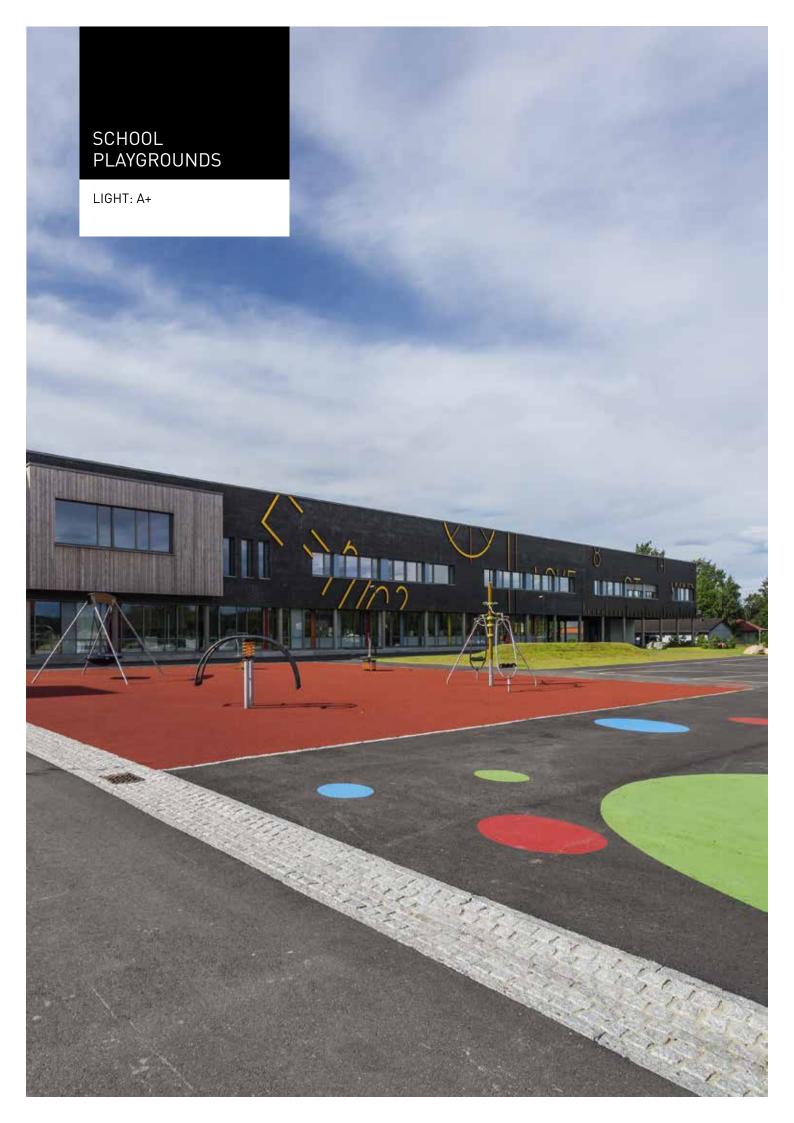




Light is an important tool when it comes to orientation and accenting as well as showcasing buildings and objects. Outdoor sales areas are a particular challenge for lighting in this regard, because light not only has the task of supporting the work of employees but also to directly influences the customers' desire to buy. Modern and efficient TRILUX LED solutions showcase products in precisely the right light.

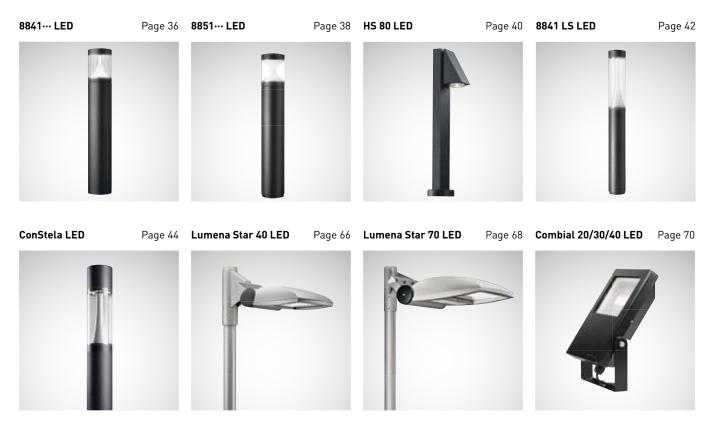
Faciella LED Page 64 Lumena Star 40 LED Page 66

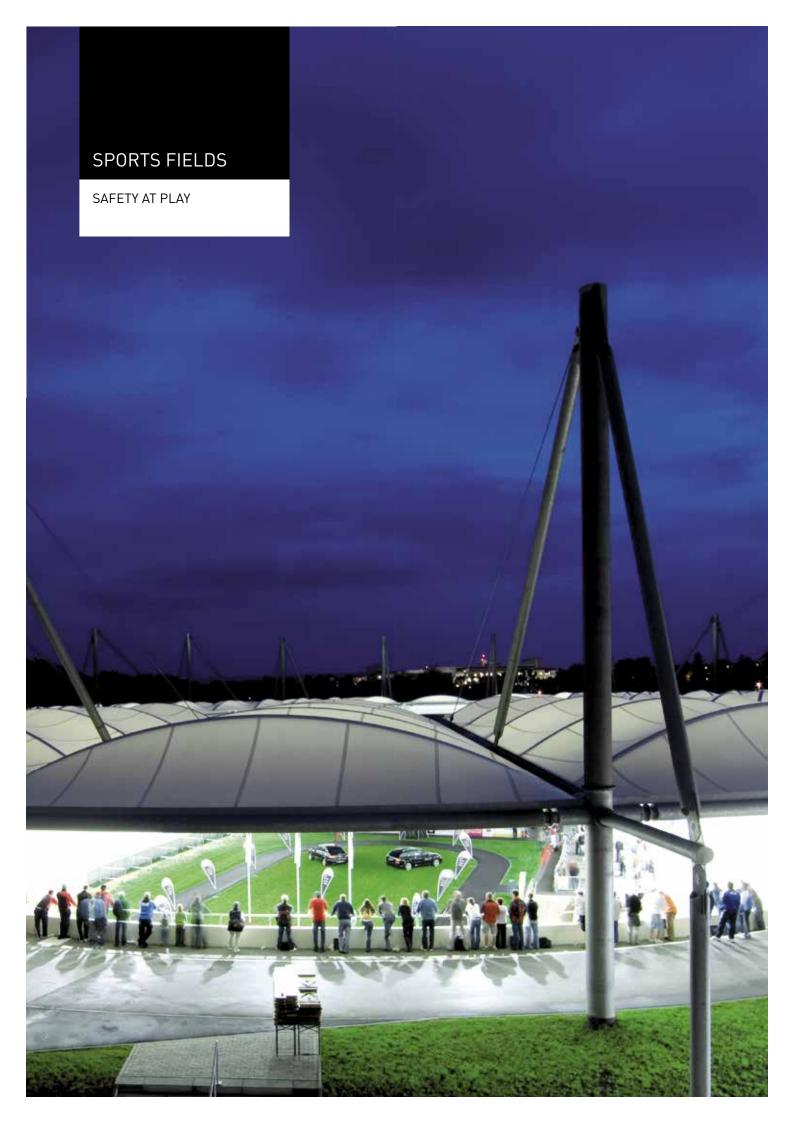


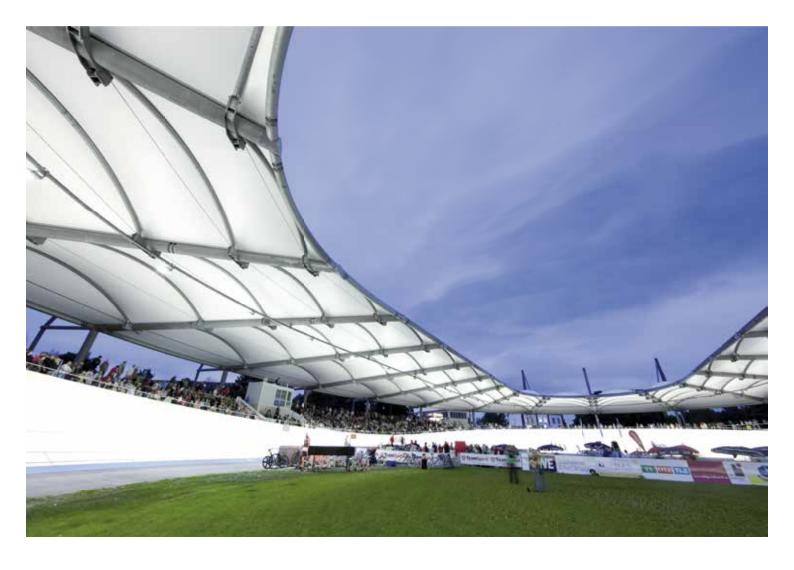




Reliable lighting solutions for school playgrounds ensure safety and orientation. It takes especially robust luminaires to not only resist adverse weather in the long run, but also to withstand knocks and kicks by children at play. TRILUX luminaires are the ideal solution for light around buildings. And what's more, they are compelling in terms of energy and cost efficiency, high quality of light and low-maintenance lighting technology.

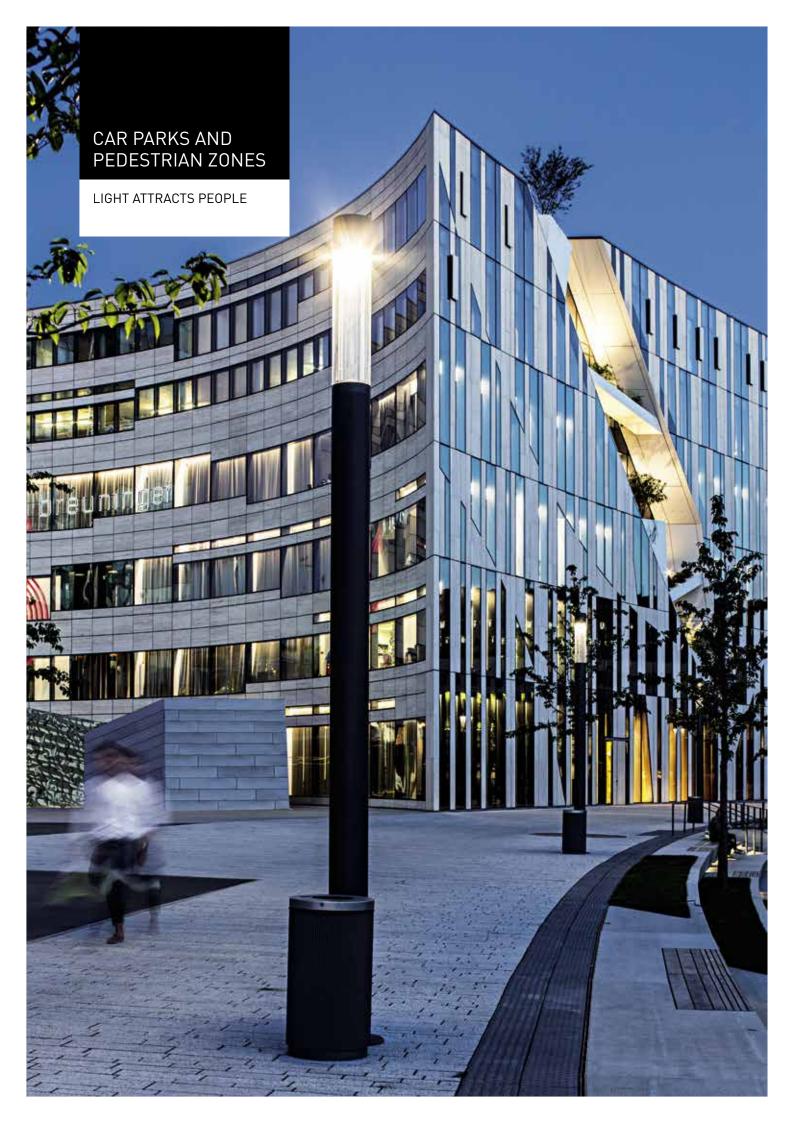






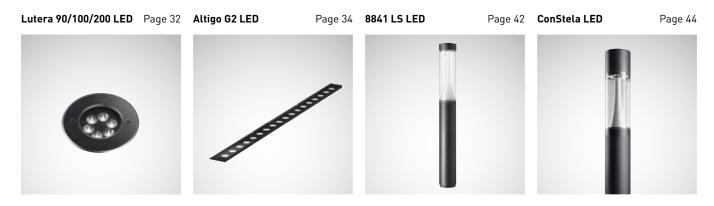
The sports sector is no exception when it comes to the challenge of changing leisure habits, and artificial light is becoming ever more important in this regard. Competitions and training situations in various sports need ideal lighting conditions, even in rough conditions and all kinds of weather. TRILUX LED systems are compelling in terms of energy efficiency and robustness, and reliably provide ideal visual conditions.







Attractively designed plazas and pedestrian zones promote economic activity, create atmospheres and thus lead to image improvements. Urban spaces can be redesigned with lighting solutions in fascinating ways, actively contributing to preventing crime. Be it day or night – TRILUX LED luminaires create a tremendous attraction for appreciated guests, while at the same time deterring those who are not welcome.



LUTERA 90/100/200 LED

GROUND-RECESSED SPOTLIGHTS

Lutera 90: small design Lutera 100: mid-sized design Lutera 200: large design



Lutera 90: Lens technology 3 LED Lutera 100: Lens technology 6 LED Lutera 200: Lens technology 9 LED
Reflector technology 1COB-LED



- Rotationally symmetric narrow distribution (10°)
- Rotationally symmetric medium-wide distribution
- Rotationally symmetric wide distribution (50 °)



Lutera 90: 500 lm Lutera 100: 1,000 lm

Lutera 200: 1,650 lm - 2,900 lm











> 100,000 hrs.

Accessories:

- Stainless steel cover plate, round
- Stainless steel cover plate, square
- Mounting housing, normalMounting housing, extended
- RGB components

Air-tight sealed cable



ALTIGO G2 LED

GROUND-RECESSED LUMINAIRE

Altigo G2 W0 (walk-over) Altigo G2 W0 60: 9 LED Altigo G2 W0 120: 18 LED



- Rotationally symmetric narrow distribution (10°)
 Rotationally symmetric medium-wide distribution
- Rotationally symmetric wide distribution (50 °)
 Asymmetric distribution



Altigo G2 W0 60: 2,000 lm Altigo G2 W0 120: 4,000 lm









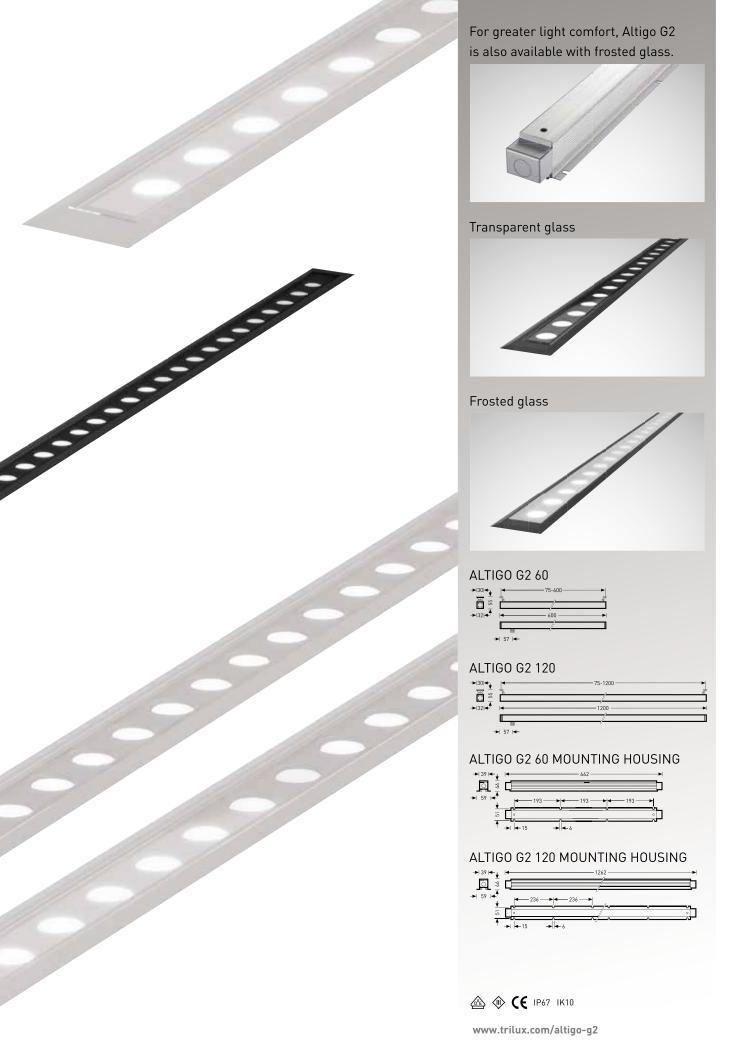




> 50,000 hrs.

Accessories:

- IP66 supply unitsGround-recessing housing
- RGB components



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8841... LED

BOLLARD LUMINAIRE

8841: Bollard luminaire 8841K: Short bollard luminaire 8841W: Wall luminaire





- Asymmetric wide distribution: AB2L
 Rotationally symmetric wide distribution
 Further light distribution characteristics



700 lm – 850 lm











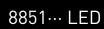
> 100,000 hrs.

Accessories:

• Underground support for vandalism protection







BOLLARD LUMINAIRE

8851: Bollard luminaire 8851K: Short bollard luminaire

8851W: Wall luminaire



• open distribution



300 lm









> 100,000 hrs.

Accessories:
• Underground support for vandalism protection





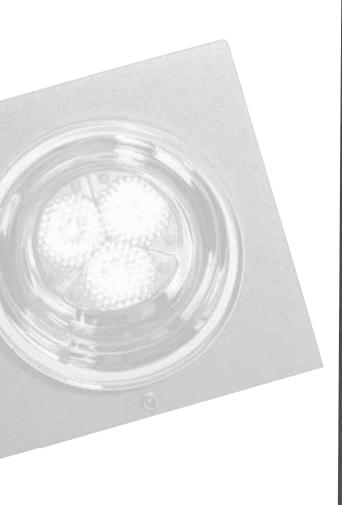
The bollard provides orientation and safety in the dark with an integrated design element. 8851K 8851

⚠ □ **(€** IP65

www.trilux.com/8851

HS 80 LED

BOLLARD LUMINAIRE







Direct distribution lens system

Rotationally symmetric medium wide distribution



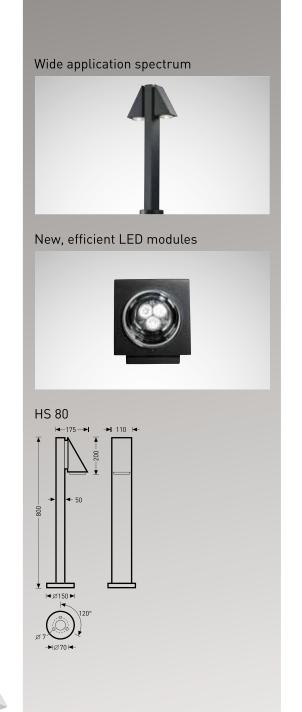
HS 80: 300 lm HS 80 in twin configuration: 600 lm













⊕ (€ 1P54

www.trilux.com/hs

8841 LS LED

LIGHT COLUMN

8841 LS 260: Light column with light emission at 2.60 m

8841 LS 360: Light column with light emission





- Asymmetric wide distribution: AB2L
 Rotationally symmetric wide distribution: RB6L
- Further light distribution characteristics



- Power reduction (LR)Power reduction, self-regulated (LRA)
- Light management and sensor technology



1,000 lm - 3,500 lm









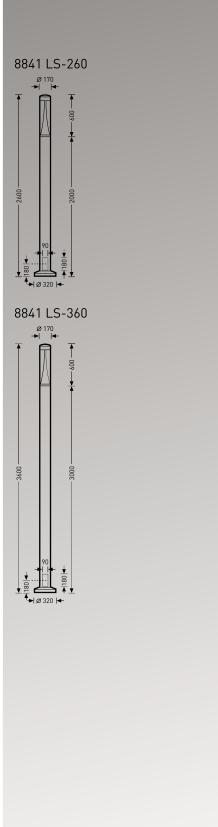
> 100,000 hrs.

Accessories:
• Fixing with baseplate or continuous underground support



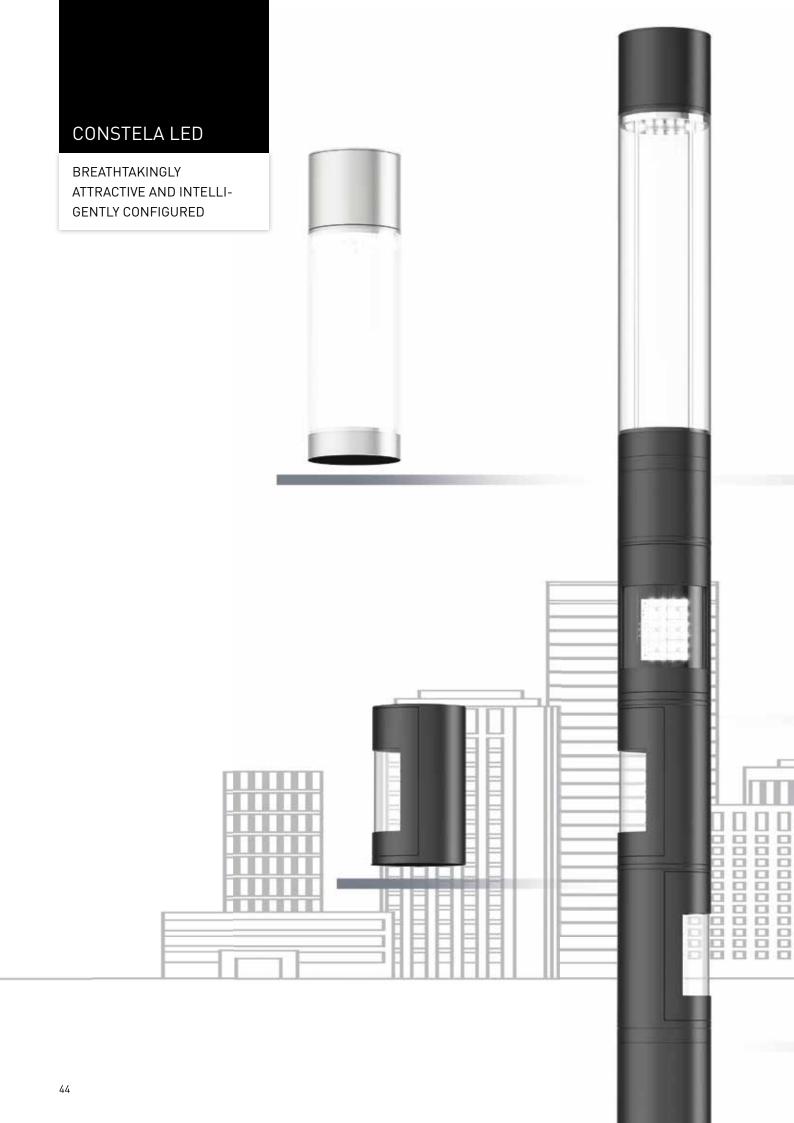




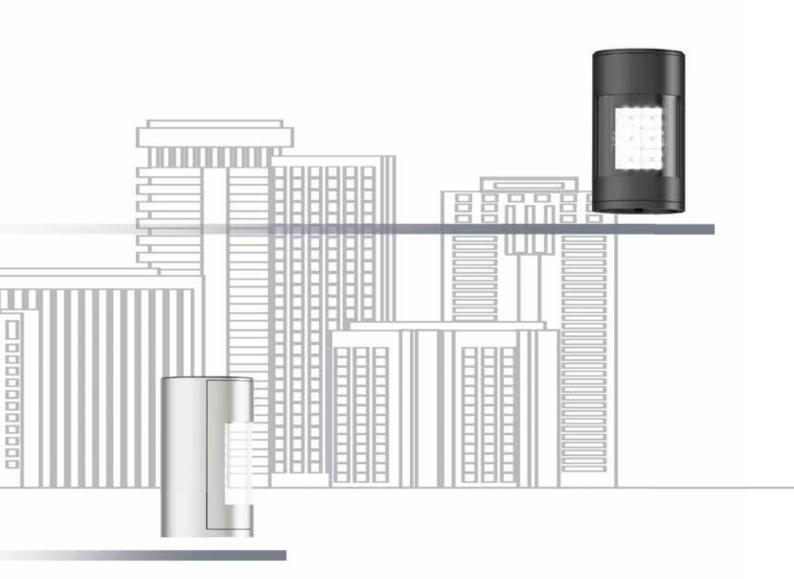




www.trilux.com/8841ls







CONSTELA LED

MODULAR LIGHT COLUMN SYSTEM

ConStela CS 20: Ø 200 mm ConStela CS 23: Ø 230 mm



MLTIQ

- Asymmetric wide distribution: AB2L
- Rotationally symmetric wide distribution: RB6L
- Further light distribution characteristics

Spotlight modules:
Rotationally symmetric narrow distribution: RE2L Rotationally symmetric wide distribution: RB4L



- Power reduction (LR)
- Power reduction, self-regulated (LRA)
- Light management and sensor technology



CS 20: 1,650 lm – 3,500 lm CS 23: 2,600 lm – 5,600 lm

Spotlight modules:

CS 23 S-Mod: 2,000 lm - 5,100 lm









> 100,000 hrs.

- Spotlight modules for illuminating objects, buildings or facades
- Fixing of supporting column via underground support (E): 3 m - 5 m in 0.5 m increments
- Fixing via flange plate (FP): 3 m - 6 m in 0.5 m increments

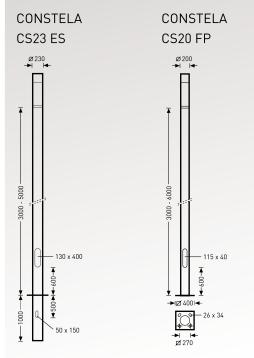






Up to three spotlight modules can be integrated into one light column to accent facades or objects out of the light column.







www.trilux.com/constela

SKEO PURA LED

WALL AND CEILING SURFACE-MOUNTED LUMINAIRE

Skeo Pura 26: Small design Skeo Pura 40: Large design



Rotationally symmetric wide distribution



Skeo Pura 26: 500 – 750 lm Skeo Pura 40: 1,100 – 1,650 lm















SKEO R LED

WALL AND CEILING SURFACE-MOUNTED LUMINAIRE





Skeo R D: Ceiling surface-mounted luminaire Skeo R W: Wall surface-mounted luminaire



- symmetric distributionasymmetric distribution
- direct distribution: wide distribution
- direct/indirect distribution: wide distribution – wide distribution
- GS: Frosted glass GT: Transparent glass



600 lm - 3,000 lm

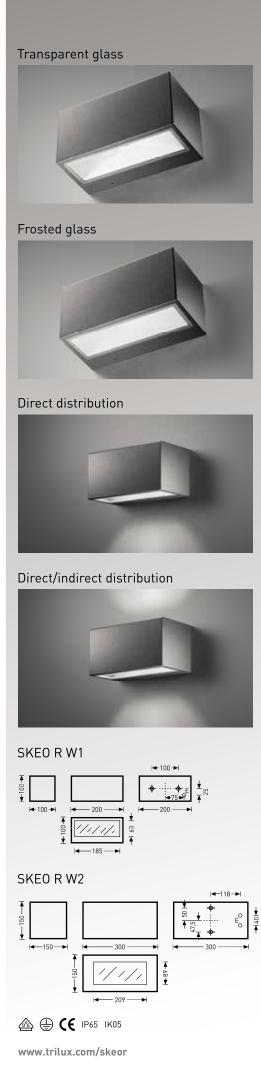












SKEO Q LED

WALL AND CEILING SURFACE-MOUNTED LUMINAIRE



Skeo Q D: Ceiling surface-mounted luminaire Skeo Q W: Wall surface-mounted luminaire



- rotationally symmetric distributionasymmetric distribution
- direct distribution: narrow distribution wide distribution
- direct/indirect distribution: narrow distribution – narrow distribution wide distribution – wide distribution narrow distribution – wide distribution
- GS: Frosted glass GT: Transparent glass



20 lm - 2,800 lm

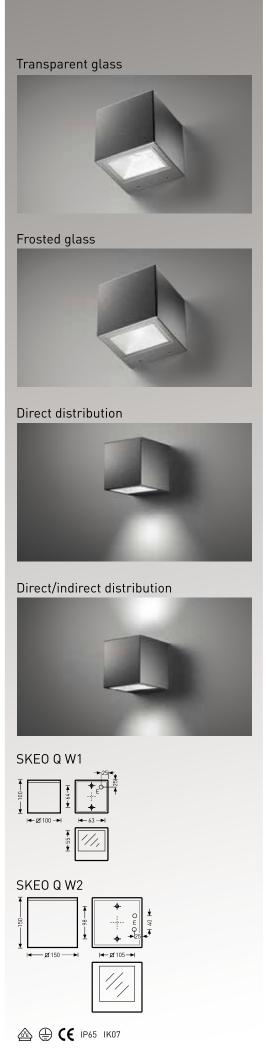












www.trilux.com/skeoq

ALTIGO G2 LED

WALL SURFACE-MOUNTED LUMINAIRE / CEILING RECESSED LUMINAIRE



Altigo G2 10: length 10 cm Altigo G2 30: length 30 cm Altigo G2 60: length 60 cm Altigo G2 90: length 90 cm Altigo G2 120: length 1.20 m



- rotationally symmetric narrow distribution (10 °)
- rotationally symmetric medium-wide distribution
- rotationally symmetric wide distribution (50 ° & 70 °)



100 lm - 4,000 lm













> 50,000 hrs.

- Supply units
- 50 mm wall fixing
- 100 mm wall fixing





Two wall fixings (50 mm and 100 mm) are available as accessories for flexible distancing to the wall. Can also be used as a ceiling recessed luminaire.



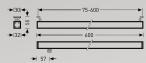
ALTIGO G2 10



ALTIGO G2 30



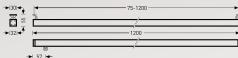
ALTIGO G2 60



ALTIGO G2 90



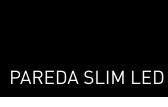
ALTIGO G2 120



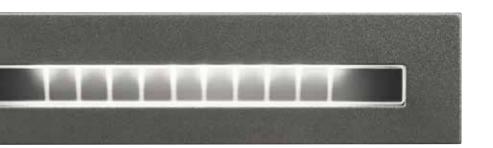




www.trilux.com/altigo-g2



RECESSED WALL LUMINAIRE







■ asymmetric wide distribution



100 lm











> 50,000 hrs.

Accessories:

• Mounting housing

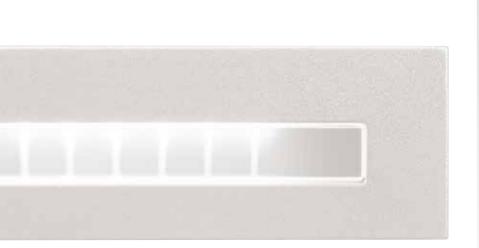


The extremely low recess depth of just 72 mm enables very convenient installation.



PAREDA SLIM





⚠ **(€** IP65 IK07





Pareda R: rectangular design Pareda S: square design



Direct distribution
- asymmetric distribution

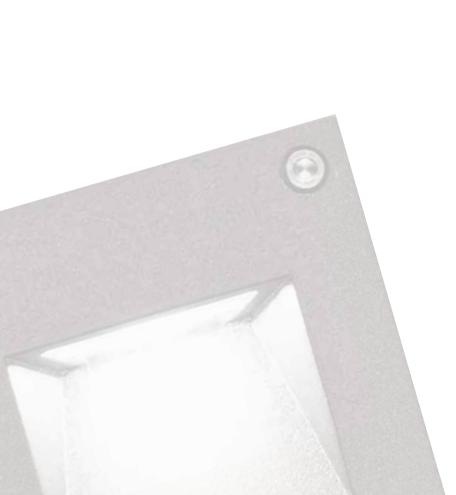


30 lm – 100 lm









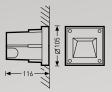
The recessed wall luminaire with its discreet design blends harmoniously into any installation situation.



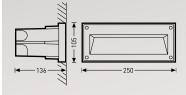
The version with raised frame is especially suitable for rough wall surfaces.







PAREDA R

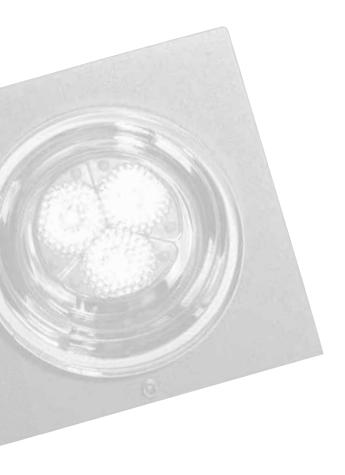




www.trilux.com/pareda

HS I LED

WALL LUMINAIRE









Direct distribution lens system
• rotationally symmetric medium wide distribution



HS I: 300 lm









Sharp edges and straight lines create an unmistakable form.







⊕ (€ 1P54

www.trilux.com/hs

LUTERA 90/100/200 C LED

RECESSED CEILING LUMINAIRE



Lutera 90 C: small design Lutera 100 C: mid-sized design Lutera 200 C: large design



- rotationally symmetric medium wide distribution
 rotationally symmetric wide distribution
 asymmetric distribution



Lutera 90 C: 500 lm Lutera 100 C: 1,000 lm Lutera 200 C: 1,500 lm









> 50,000 hrs.

Accessories:
• Frosted glass





SPOTLIGHTS

Faciella 08: small design Faciella 15: mid-sized design Faciella 20: large design



Faciella 08: Lens technology – 3 LED
Faciella 15: Lens technology – 6 LED or 9 LED
Faciella 20: Lens technology – 18 LED Reflector technology - 1COB-LED



• rotationally symmetric narrow distribution (10 °)

- rotationally symmetric medium-wide distribution
- rotationally symmetric wide distribution (50 °)



Faciella 08: 500 lm

Faciella 15: 1,000 lm – 2,000 lm Faciella 20: 2,600 lm – 4,200 lm











> 100,000 hrs.

- Post strap
- Post mounting
- Ground stake
- RGB components
 Cylinder shield (ZZB)
- Ribbed glass (ZRG)
- Frosted glass (ZFM)





LUMENA STAR 40 LED

WIDE BEAM SPOTLIGHTS



- rotationally symmetric wide distribution: RB6L
 asymmetric medium-wide distribution: AM2L



- Power reduction (LR)
- Power reduction, self-regulated (LRA)
- Light management and sensor technology



Lumena Star 40: 2,200 lm - 10,000 lm









> 100,000 hrs.

Pivotable luminaire head

- Traverses single configuration
 Traverses twin configuration 90°/180°
- Traverses 3-fold configuration
- Traverses 4-fold configuration
- For 76/89/108 mm post spigot







LUMENA STAR 70 LED

WIDE BEAM SPOTLIGHTS



- Lumena Star 70: indirect reflector system
 Lumena Star 70: asymmetric medium-wide distribution: AM1R
- Further light distribution characteristics



- Power reduction (LR)
- Power reduction, self-regulated (LRA)
- Light management and sensor technology



Lumena Star 70: 8,200 lm - 32,000 lm











> 60,000 hrs.

Pivotable luminaire head

- Traverses single configuration
 Traverses twin configuration 90°/180°
- Traverses 3-fold configuration
- Traverses 4-fold configuration
- For 76/89/108 mm post spigot





www.trilux.com//lumenastar70

COMBIAL 20/30/40 LED

SPOTLIGHTS





• rotationally symmetric wide distribution



Combial 20: 3,500 lm/4,600 lm Combial 30: 7,500 lm Combial 40: 12,000 lm







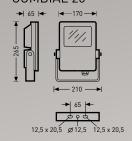




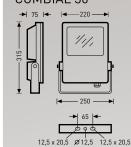
Flexible setting of spotlight inclination on location.



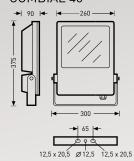
COMBIAL 20



COMBIAL 30



COMBIAL 40









www.trilux.com/combial20 www.trilux.com/combial30 www.trilux.com/combial40

LUMEGA IQ 50/70/90 LED

POST-TOP AND BRACKET-MOUNTED LUMINAIRE



Lumega IQ 50: small design Lumega IQ 70: mid-sized design Lumega IQ 90: large design



- asymmetric wide distributionextremely asymmetric distribution/
- pedestrian crossings
 symmetric wide distribution/paths and cycle paths
- Further light distribution characteristics



- Power reduction (LR)
- Power reduction, self-regulated (LRA)
- Light management and sensor technology
- With luminous flux constant control (CLO)



Lumega IQ 50: 1,000 lm - 5,600 lm Lumega IQ 70: 3,200 lm – 13,500 lm Lumega IQ 90: 13,500 lm – 22,000 lm





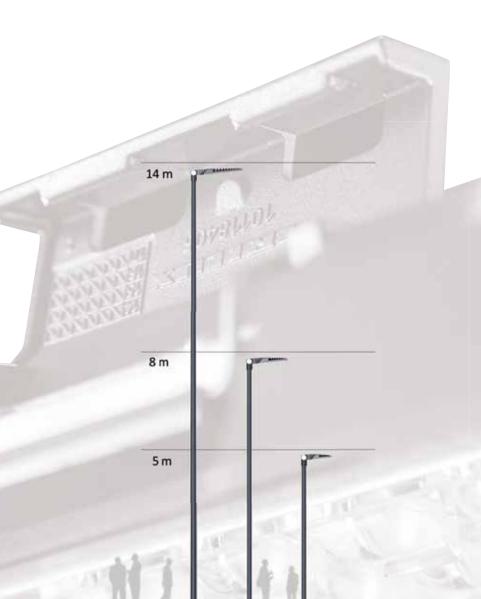




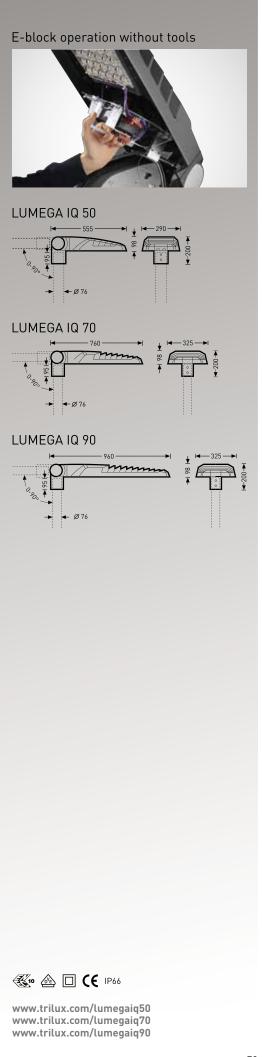
> 100,000 hrs.

Accessories:

- Multiple post mounting elements
- Wall mountings
- Reduction pieces for Ø 42/48/60 mm Housing cover







VIACON LED

POST-TOP AND BRACKET-MOUNTED LUMINAIRE

ViaCon: Post-top luminaire ViaCon A: Bracket-mounted luminaire ViaCon SHL: catenary luminaire



- asymmetric wide distribution
- extremely asymmetric distribution/ pedestrian crossings
- Further light distribution characteristics



- Power reduction (LR)
- Power reduction, self-regulated (LRA)
- Light management and sensor technology
 With luminous flux constant control (CLO)



800 lm - 8,200 lm









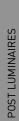


100,000 hrs.

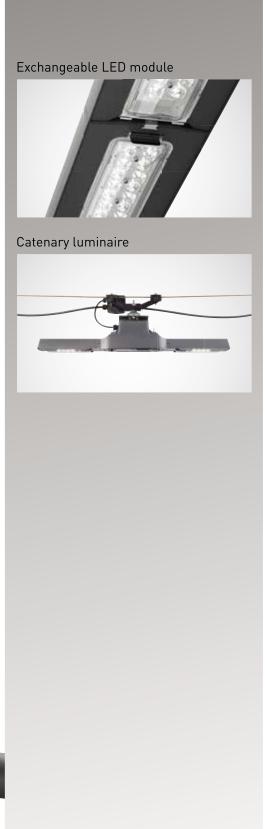
Accessories:

- Multiple post mounting elements
- Wall mountings
- Reduction pieces for Ø 42/48/60 mm















CUVIA LED

POST-TOP AND BRACKET-MOUNTED LUMINAIRE



Cuvia 40: small design Cuvia 60: large design



- asymmetric wide distribution
- symmetric wide distribution/paths and cycle paths
- Further light distribution characteristics



- Power reduction (LR)
- Power reduction, self-regulated (LRA)
 With luminous flux constant control (CLO)



Cuvia 40: 1,000 lm – 3,200 lm Cuvia 60: 3,500 lm – 7,500 lm











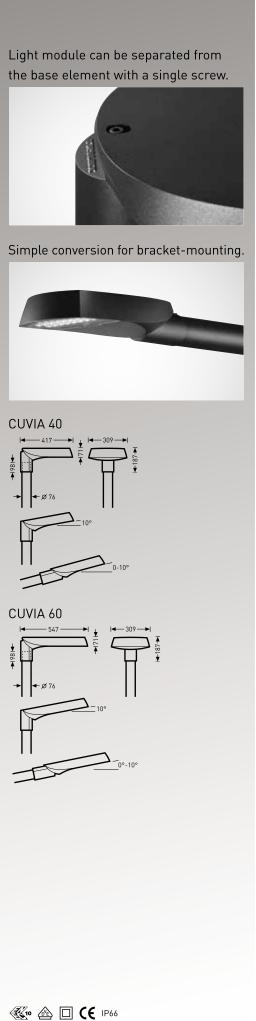
> 100,000 hrs.

Accessories:

- Multiple post mounting elements
 Wall mountings
- Reduction pieces Ø 42/48/60 mm







www.trilux.com/cuvia40 www.trilux.com/cuvia60

ONTRIA LED

POST-TOP AND BRACKET-MOUNTED LUMINAIRE





Ontria I: small design Ontria II: small design Ontria III: large design



asymmetric wide distribution



■ Power reduction (LR)



Ontria I: 3,600 / 6,200 Ontria II: 9,100 / 12,000 Ontria III: 15,000 / 20,000 / 24,000







> 50,000 hrs.

- Post mountings (mandatory)
 Multiple post mounting elements
 Wall mountings



ACCESSORIES FOR TECHNICAL ROAD LUMINAIRES



MULTIPLE POST MOUNTING ELEMENTS

	Post spigot	Ø 60 mm				
	Supports	Ø 60 x 200 mm		•		•
	Inclination angle	15 °				
0803/2/60-200-60	Colour	galvanised				
	Post spigot	Ø 76 mm				
18	Supports	Ø 60 x 200 mm		•		•
	Inclination angle	15 °				
0803/2/76-200-60	Colour	galvanised				
	Post spigot	Ø 76 mm				
	Supports	Ø 42 x 200 mm				
0.3	Inclination angle	25 °			(ullet)	
2002/2/7/ 200 /2						
0803/2/76-200-42	Colour	galvanised				
•	Post spigot	Ø 76 mm				
	Supports	Ø 60 x 500 mm				
	Inclination angle	15 °		•		•
0803/2/76-500x60	Colour	galvanised				
	Post spigot	Ø 76 mm				
		Ø 60 x 1000 mm				
	Supports	25 °				
	Inclination angle					
0803/2/76-1000-60	Colour	galvanised				
	Post spigot	Ø 76 mm				
	Supports	Ø 60 x 1500 mm				
	Inclination angle	15 °				•
0803/2/76-1500-60	Colour	galvanised				
		Ø 5.4				
1	Post spigot	Ø 76 mm				
	Supports	Ø 42 x 200 mm			•	
-	Inclination angle	15 °				
0803/3/76-200-42	Colour	galvanised				
	Post spigot	Ø 76 mm				
	Supports	Ø 60 x 350 mm				
	Inclination angle	15 °	- $(ullet)$	(\bullet)		
0803/3/76-350-60	Colour	galvanised				
3003/3//0-330-00	Cotour	yawaniseu				

^{* 0970/60} reduction piece additionally required for each luminaire. ** Ontria MB/60 additionally required for each luminaire.

WALL MOUNTINGS			Cuvia***	Lumega IQ***	Viacon A	Ontria**
4	Supports	Ø 42 x 100 mm				
	Inclination angle	15 °				
	Colour	RAL 7035			\bullet	
0803WB/100-42						
4	Supports	Ø 42 x 100 mm				
	Inclination angle	15 °		•		•
	Colour	DB 703				
0803WB/100-42 26						
-4	Supports	Ø 42 x 100 mm				
	Inclination angle	15 °				
	Colour	RAL 7035			\bullet	
0803EMB/100-42						
-4	Supports	Ø 42 x 100 mm				
	Inclination angle	15 °				
	Colour	DB 703				\bullet
0803EMB/100-42 26						



Lumena Star 70 Lumena Star 40

TRAVERSES

IRAVERSES				
	Post spigot	Ø 76/89 mm		
	Number of spotlights	1	•	
LnStar Traverse S 1/	Colour	galvanised		
	Post spigot	Ø 76/89/108 mm		
The same of the sa	Number of spotlights	2		
LnStar Traverse S 2//180°	Colour	galvanised		
ána				
	Post spigot	Ø 76/89/108 mm		
	Number of spotlights	3	•	
LnStar Traverse S 3/	Colour	galvanised		
	Post spigot	Ø 76/89/108 mm		
	Number of spotlights	4	•	
LnStar Traverse S 4/	Colour	galvanised		
0	Post spigot	Ø 76/89/108 mm		
	Number of spotlights	0 /6/89/ 108 mm 1	•	
LnStar Traverse A 1/	Colour	galvanised		
Elista Haverse A II	Cotour	gatvanisea		
	Post spigot	Ø 76/89/108 mm		
	Number of spotlights	2	•	
LnStar Traverse A 2//180°	Colour	galvanised		
	Post spigot	Ø 76/89/108 mm		
V	Number of spotlights	3	•	
LnStar Traverse A 3/	Colour	galvanised		
	Pact chiest	Ø 76/89/108 mm		
	Post spigot	4	•	
	Number of spotlights			
LnStar Traverse A 4/	Colour	galvanised		
\cap \square	Post spigot	Ø 76 mm		
	Number of spotlights	1		•
0860/1/76	Colour	metallic grey, similar to RAL 9006		
5550/1/70		3 %		
	Post spigot	Ø 76 mm		
	Number of spotlights	2		
0860/2/76/90°	Colour	metallic grey, similar to RAL 9006		
		~ ~ .		
	Post spigot	Ø 76 mm		
	Number of spotlights	2		\bullet
0860/2/76/180°	Colour	metallic grey, similar to RAL 9006		
\cap \wedge	Post spigot	Ø 76 mm		
	Number of spotlights	3		•
0040/2/74	Colour	metallic grey, similar to RAL 9006		
0860/3/76	Colodi	metatic grey, similar to the 7000		
	Post spigot	Ø 76 mm		
	Number of spotlights	4		•
0860/4/76	Colour	metallic grey, similar to RAL 9006		

Product example: Lumena Star 40 LED



The challenge

In terms of safety and efficiency, the industrial sector places high demands on the lighting of outdoor work-places, roads and parking areas. It is important that the lighting solution is controllable according to needs due to reasons of efficiency.

The solution

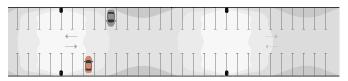
The robust Lumena Star 40 provides energy-efficient light precisely according to the needs of the outdoor application thanks to MLTIQ technology. The all-rounder can be equipped with light management functionality, enabling maximum energy savings due to intelligent control.

The result

Thanks to its flexible lens system, Lumena Star 40 provides safety and security in outdoor workplaces and outdoor areas – even with wide luminaire spacing. The luminaire also enables high energy savings.

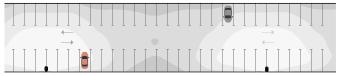
APPLICATION: PARKING LOTS

Ambilateral arrangement, opposite



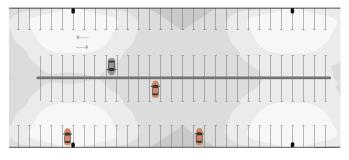
Parking lot width	16 m
Post height	6 m
Inclination angle	10 °
Luminaire for 5 lux	LnStar 40-AB2L/2200-740
Luminaire for 10 lux	LnStar 40-AB2L/4200-740
Luminaire for 20 lux	LnStar 40-AB2L/8200-740
Distance of start of parking lot to 1st luminal	re 12.5 m
Distance from luminaire to luminaire	37.5 m

Arrangement on one side



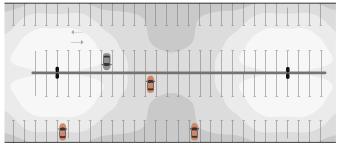
Parking lot width	16 m
Post height	8 m
Inclination angle	10 °
Luminaire for 5 lux	LnStar 40-AB2L/6200-740
Luminaire for 10 lux	LIQ 70-AB2L/12000-740
Luminaire for 20 lux	LIQ 90-AB2L/24000-740
Distance of start of parking lot to 1st luminaire	e 10 m
Distance from luminaire to luminaire	50 m

Two-sided arrangement, opposite



Parking lot width	32 m
Post height	8 m
Inclination angle	10 °
Luminaire for 5 lux	LnStar 40-AB2L/5600-740
Luminaire for 10 lux	LIQ 70-AB2L/11000-740
Luminaire for 20 lux	LIQ 90-AB2L/22000-740
Distance of start of parking lot to 1st luminaire	15 m
Distance from luminaire to luminaire	50 m

Two-sided arrangement, central



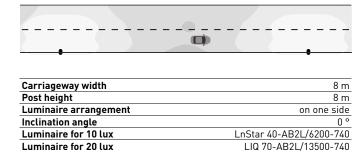
Parking lot width	32 m
Post height	8 m
Inclination angle	10 °
Luminaire for 5 lux	LnStar 40-AB2L/5600-740
Luminaire for 10 lux	LIQ 70-AB2L/11000-740
Luminaire for 20 lux	LIQ 90-AB2L/24000-740
Distance of start of parking lot to 1st luminaire	12.5 m
Distance from luminaire to luminaire	52.5 m

APPLICATION: WORKS ROADS

Arrangement on one side

Luminaire spacing

Light point overhang



40 m

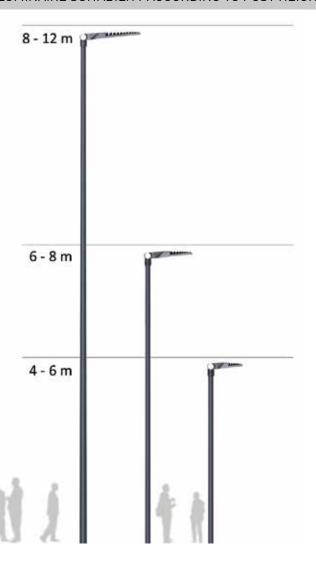
0 m

LED REPLACEMENT TYPES

Lamps per	Luminaire	Suitable
luminaire	luminous flux of	LED luminaire
(obsolete system)	new system	
1 x 50 W HME	1,200 lm	LnStar 40-AB2L/1200-740
2 x 50 W HME	2,400 lm	LnStar 40-AB2L/2400-740
1 x 80 W HME	2,400 lm	LnStar 40-AB2L/2400-740
2 x 80 W HME	5,100 lm	LnStar 40-AB2L/5100-740
1 x 125 W HME	4,200 lm	LnStar 40-AB2L/4200-740
2 x 125 W HME	8,200 lm	LnStar 40-AB2L/8200-740
1 x 250 W HME	8,200 lm	LnStar 40-AB2L/8200-740
2 x 250 W HME	16,500 lm	LnStar 70-AM2R/16500-740
1 x 400 W HME	13,500 lm	LnStar 70-AM2R/13500-740

Lamps per luminaire (obsolete system)	Luminaire luminous flux of new system	Suitable LED luminaire
1 x 50 W HST	2600 lm	LnStar 40-AB2L/2600-740
2 x 50 W HST	5600 lm	LnStar 40-AB2L/5600-740
1 x 70 W HST	4200 lm	LnStar 40-AB2L/4200-740
2 x 70 W HST	8200 lm	LnStar 40-AB2L/8200-740
1 x 100 W HST	6800 lm	LnStar 40-AB2L/6800-740
2 x 100 W HST	13500 lm	LnStar 70-AM2R/13500-740
1 x 150 W HST	11000 lm	LnStar 70-AM2R/11000-740
2 x 150 W HST	21000 lm	LnStar 70-AM2R/22000-740

LUMINAIRE SUITABILITY ACCORDING TO POST HEIGHT



for post heights 4 m - 6 m	for post heights 6 m - 8 m	for post heights 8 m - 12 m
Ontria I	Ontria II	Ontria III
Cuvia 40	Cuvia 60	Lumega IQ 70
ViaCon 80	ViaCon 110	Lumena Star 70
Lumega IQ 50	Lumega IQ 70	
Lumena Star 40	Lumena Star 40	
	Lumena Star 70	

INDUSTRY

Works roads

Road width	Light point	Light point	Light point	Inclination	Lens	Luminous flux	
	height	spacing	overhang			Speed	Speed
						≤ 30 km/h	≤ 50 km/h
5 m	6 m	29 m	0 m	0°	AB2L	3,200 lm	6,800 lm
5 m	8 m	36 m	0 m	0°	AB2L	5,100 lm	11,000 lm
6 m	6 m	30 m	0 m	0°	AB2L	3,500 lm	7,500 lm
6 m	8 m	37 m	0 m	0°	AB2L	5,600 lm	11,000 lm
7 m	6 m	30 m	0 m	0°	AB2L	3,800 lm	7,500 lm
7 m	8 m	37 m	0 m	0°	AB2L	5,600 lm	11,000 lm
8 m	6 m	31 m	0 m	0°	AB2L	4,200 lm	8,200 lm
8 m	8 m	38 m	0 m	0°	AB2L	6,200 lm	12,000 lm

Calculations based on: MF=0.89; Em: 10 lx & g1:0.4; Em: 20 lx & g1: 0.4

Loading Bay

Light	Inclination	Lens	Luminous flux			
point			Central	left and right	left and right	
height				from one box	from two boxes	
5 m	5°	AM2L	5,100 lm	3,200 lm	4,600 lm	
6 m	0°	AM2L	6,200 lm	3,800 lm	5,100 lm	
7 m	0°	AM2L	8,200 lm	4,600 lm	6,200 lm	
8 m	0°	AM2L	10,000 lm	5,600 lm	7,500 lm	

Calculations based on: MF=0.89; measuring plane= 3 m x 8 m; Em: 50 lx & g1: 0.4

Loading Area

Light	Inclination	Lens	Luminous flux	
point				
height				
5 m	0°	AM2L	4,200 lm	
6 m	0°	AM2L	5,600 lm	
7 m	0°	AM2L	7,500 lm	
8 m	0°	AM2L	10,000 lm	

Calculations based on: MF=0.89; measuring plane= 4 m x 5 m; Em: 50 lx & g1: 0.4

PATHS

Paths to 2.5 m

Path width	8841K (3,000 K)	8841 (3,000 K)	8841K (4,000 K)	8841 (4,000 K)	Lens
1 m	8 m	12 m	8 m	12 m	AB2L
1,5 m	8 m	12 m	8 m	12 m	AB2L
2 m	5 m	12 m	5 m	12 m	AB2L
2,5 m	=	10 m	-	11 m	AB2L

Calculations of maximum luminaire spacing with Emin $\geq 1 \text{ lx}$

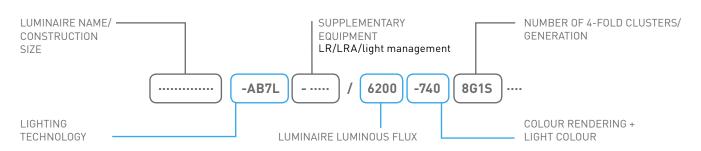
Paths to 3.5 m

Path width	8841K (3,000 K)	8841 (3,000 K)	8841K (4,000 K)	8841 (4,000 K)	Lens
1 m	10 m	13 m	10 m	14 m	AB14L
1,5 m	10 m	13 m	10 m	14 m	AB14L
2 m	9 m	13 m	10 m	14 m	AB14L
2,5 m	7 m	13 m	7 m	14 m	AB14L
3 m	-	11 m	_	12 m	AB14L
3,5 m	_	6 m	-	8 m	AB14L

Calculations of maximum luminaire spacing with Emin $\geq 1 lx$



MLT^{1Q} and luminaire designation



Asymmetric wide distribution:
AB2L/AB5L/AB6L/**AB7L**/AB8L/AB9L
Pedestrian crossings: FR1L/FL1L
Rotationally symmetric wide distribution: RB3L
Rotationally symmetric narrow distribution: RE2L
Asymmetric medium-wide distribution: AM2L

1000/1100/1200/1350/1500/1650/1800/
2000/2200/2400/2600/2900/3200/3500/
3800/4200/4600/5100/5600/**6200**/6800/
7500/8200/9100/10,000/...
[11000/12000/13500/15000/16500/
18000/20000/22000...]

730: 3000 K/Ra > 70 **740:** 4000 K/Ra > 70

Further lens optics are available.

Greater flexibility in use

The following overview shows which requirements are fulfilled with use of various MLT lenses (13 here from more than 20). Further lighting tasks with MLTIQ on request.

Flexibility is further increased via rotation of the lenses in 90 $^{\circ}$ steps.

Additional reduction of light emission to the rear can be optionally implemented with shielding on the building side.

Simply contact us.

Road	Lens /description	Squares	Lens /description
P class	AB2L: Asymmetric wide light distribution for road illumination in compliance with P lighting classes.		AM2L: Asymmetric medium-wide light distribution for planar lighting, e.g. parking lots and storage areas.
	SB3L: Symmetric wide light distribution for illuminating paths, especially cycle paths.	•	RB6L: Rotationally symmetric wide light distribution for planar lighting, e.g. parking lots and pedestrian zones.
M class		-	
1	AB5L: Asymmetric wide distribution for road illumination in compliance with M lighting classes with positive light point overhang and inclination	Pedestrian crossings	Lens/description
	angle to 15 °.		FR1L: Extremely asymmetric light distribution for illuminating pedestrian crossings (illumination on right).
	AB6L: Asymmetric wide light distribution for road illumination in compliance with M5 and M6 lighting classes with		
	road width to light point height ratio of 0.4 to 0.8.		FL1L: Extremely asymmetric light distribution for illuminating pedestrian crossings (illumination on right).
	AB7L: Asymmetric wide light distribution for road illumination in compliance with M3 to M6 lighting classes with road width to light point height ratio of		
	0.5 to 1.7.	Floodlighting	Lens /description
4	AB8L: Asymmetric wide light distribution for road illumination in compliance with M1 and M2 lighting classes with road width to light point height ratio of 0.6 to 1.1.		RB3L: Rotationally symmetric wide light distribution for floodlighting, half-value angle 50 °.
	AB9L: Asymmetric wide light distribution for road illumination in compliance with M5 and M6 lighting classes with road width to light point height ratio of		RE2L: Rotationally symmetric narrow light distribution for floodlighting, half-value angle 25 °.



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A wide variety of highly useful tools is waiting to ease your everyday work in the TRILUX online world. It has never
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