



LARGE AREA LIGHTING

Luminous projects around the globe



ewo's growing presence in the airport sector

AAL	Aalborg Airport	FNI	Aéroport Nîmes-Alès-Camargue-Cévennes	RIL	Rifle Garfield County Airport
AAR	Aarhus Airport	FRA	Frankfurt Airport	RIX	Riga International Airport
ABJ	Abidjan Airport	GRJ	George Airport	RTM	Rotterdam The Hague Airport
ABZ	Aberdeen Airport	HAI	Hannover-Langenhagen Airport	RTW	Saratov Airport
ADL	Adelaide Airport	HAM	Hamburg Airport	RUN	Roland Garros Airport (Réunion)
ARN	Stockholm Arlanda Airport	HEL	Helsinki-Vantaa Airport	SCL	Aero Puerto de Santiago de Chile
AUS	Austin-Bergstrom International Airport	HLZ	Hamilton Airport	SIN	Singapore Changi Airport
BOS	Logan International Airport (Boston)	HRE	Harare International Airport	SJC	San José Airport
BQN	Rafael Hernández Airport (Puerto Rico)	HSH	Henderson Executive Airport (Las Vegas)	SLC	Salt Lake City International Airport
BRN	Bern Airport	INN	Innsbruck Airport	STR	Stuttgart Airport
BSL	Basel Mulhouse Airport	JED	King Abdulaziz International Airport (Jeddah)	SXF	Berlin-Schönefeld Airport
BTH	Hang Nadim Airport	JRO	Kilimanjaro International Airport	SYD	Sydney Airport
CDG	Paris Charles de Gaulle Airport	KMS	Kumasi International Airport	THU	Thule Air Base (Grönland)
CPH	Copenhagen Airport	KUL	Kuala Lumpur International Airport	TPA	Tampa International Airport
DEN	Denver International Airport	LNZ	Linz Airport	TRN	Turin Airport
DOH	Hamad International Airport (Doha)	MEL	Melbourne Airport	TSV	Townsville International Airport
DPS	Ngurah Rai International Airport (Denpasar)	MKY	Mackay Airport	TXL	Berlin Tegel Airport
DUD	Dunedin Airport	MUC	Munich Airport	VCE	Venice Marco Polo Airport
DUS	Düsseldorf Airport	MST	Maastricht Aachen Airport	VFA	Victoria Falls Airport
DXB	Dubai International Airport	NRT	Narita International Airport (Tokio)	VIE	Vienna International Airport
EBJ	Esbjerg Airport	NSN	Nelson Airport	WRO	Wrocław-Copernicus Airport
EIN	Eindhoven Airport	OAK	Oakland International Airport	YKS	Yakutsk Airport
ELS	East London Airport	OOL	Gold Coast Airport	YPL	Pickle Lake Airport
ETZ	Metz-Nancy-Lothringen Airport	OSD	Åre Östersund Airport	YQR	Regina International Airport
EUX	F.D. Roosevelt Airport (St. Eustatius)	OSL	Oslo Airport	YVR	Vancouver International Airport
FAT	International Airport Fresno Yosemite	PUF	Pau Pyrénées Airport	ZCO	Aeropuerto Maquehue Araucania
FDF	Martinique Airport	RDZ	Rodez Marcillac Airport	ZRH	Zürich Airport

Pioneers in a broad field

When illuminating large areas, key factors are performance, durability and efficiency. The objective in illumination is to ensure precision, homogeneity and 0% light pollution.

ewo already exploited the potential offered by LED technologies for large areas as far back as 2010 at Venice cargo terminal and since its project at Innsbruck Airport, has been conquering airports of various sizes one by one throughout the world.

At present, around 100 airports worldwide – from desert regions to Greenland – rely on ewo.

A development that never stops.

The R-System's third generation of floodlights is on the market now, since 2020.

R-System gen3 is optimised for



R-System gen3 MAX forges ahead into new fields such as



ewo continues to pioneer in this field.

Access all Areas

Optimised, more powerful and ready to tackle any type of large area lighting. ewo's portfolio of high-power floodlights with modular features meets all requirements and demands at airports, ports, traffic routes, logistics areas, sports facilities and even sports stadiums.

AIRPORTS



Stuttgart Airport / Stuttgart, Germany, 2014 / act consult AG

PORTS



Venice, Italy, 2010 / Tifs Ingeneria Padua

LOGISTICS



ÖBB Container Terminal, Wolfurt / Austria, 2019 /
A3 Jenewein Ingenieurbüro GmbH

SPORTS



Vintl, Italy, 2015 / Engineering 3M Srl

TRAFFIC



Zero Center, Treviso, Italy / 2010

R-System gen3

Recipe for success: simplicity

Cost efficiency with maximum performance and a focus on what matters. At ewo we have a word for this: simplicity. Because simplicity in design and application optimises performance by R-System gen3 in any large area, with up to 480 LEDs. An astonishing lifetime of over 100,000 hours and a newly developed optical system offer the utmost in performance along with precise illumination.

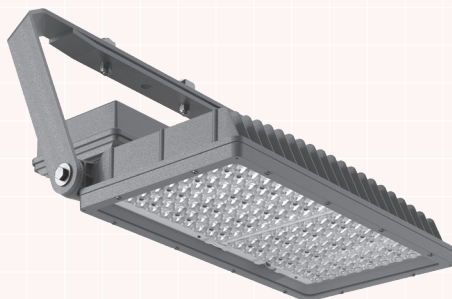
AREAS OF APPLICATION	airports, ports, logistics centres sports facilities and roads
MAX LUMEN PACKAGE	up to 193,500 lm
CURRENT FEED	up to 1,850 mA depending on ambient temperature
AMBIENT TEMPERATURE RANGE	-40 to +55 °C
OUTSTANDING LIFETIME	L80B10 > 100,000 h
DARK SKY	full-cut-off optic at 0°, optional visor up to 8° (E-Series)
ELECTRONIC OPERATING DEVICE	on request with DALI2 or line switch, 1-10 V, CLO and DMX
SMART LIGHTING	control modules for different communication standards available upon request
LENSES	made with UV-stabilised polycarbonate (E-Series) or PMMA (A-Series)
COVER	single-pane safety glass (ESG)
LUMINAIRE HOUSING	in die-cast aluminium
BRACKET	made of hot-dip galvanised steel, on request with swivelling bracket for floor, wall and ceiling mounting
FINISH	polyester powder coating, white aluminium (RAL 9006 / DB 701)



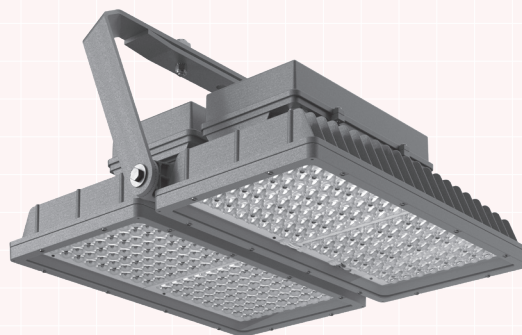
Left R2 (144 LEDs) / right R4 (288 LEDs)

R-System gen3

MODEL VARIANTS



R2 (E-Series light distribution)

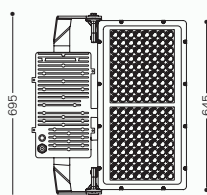


R4 (E-Series light distribution)

R2
(E-Series light distribution)24 kg
+ 2.0 kg driver

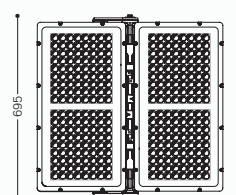
↓ ① = 0.33

→ ② = 0.11' / 0.12'' / 0.15'''

R4
(E-Series light distribution)40.5 kg
+ 4.5 kg driver

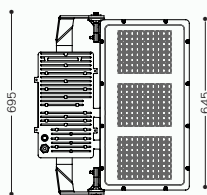
↓ ① = 0.45

→ ② = 0.13' / 0.16'' / 0.31'''

R2
(A-Series light distribution)24 kg
+ 2.0 kg driver

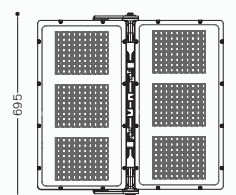
↓ ① = 0.33

→ ② = 0.11' / 0.12'' / 0.15'''

R4
(A-Series light distribution)40.5 kg
+ 4.5 kg driver

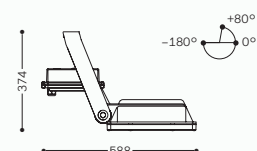
↓ ① = 0.45

→ ② = 0.13' / 0.16'' / 0.31'''

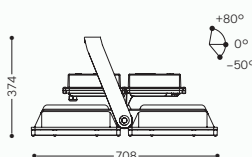


① Projected windage area [m²] ② Lateral windage area [m²] *Tilt 0° **Tilt 5° ***Tilt 30°

R2 (E- and A-Series)



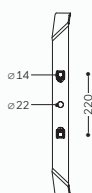
R4 (E- and A-Series)



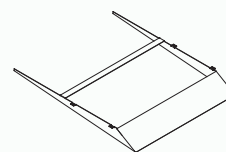
ACCESSORIES



360° Swivel-mounted bracket



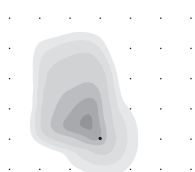
Driver box



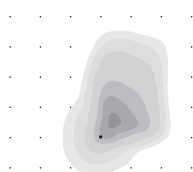
Full-cut-off-visor

MODEL	LIGHT DISTRIBUTION	LUMINOUS FLUX [lm]	MAX. POWER [W]	CURRENT FEED [mA]	LEDs
R2	E-Series	89,500	807	1,850	144
R4	E-Series	179,000	1,614	1,850	288
R2	A-Series	96,000	748	1,000	240
R4	A-Series	193,000	1,496	1,000	480

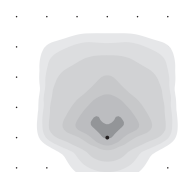
LIGHT DISTRIBUTIONS



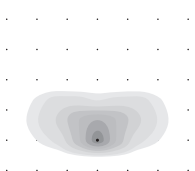
EP09-L (Tilt 5°)
Asymmetric Extra Forward – Left



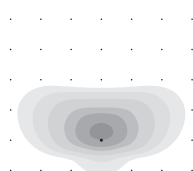
EP09-R (Tilt 5°)
Asymmetric Extra Forward – Right



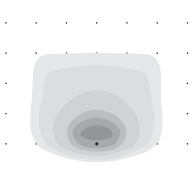
EP09-L/R (Tilt 5°)
Asymmetric Extra Forward – Left/Right



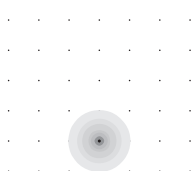
AS07
Asymmetric Side Throw



AS08
Asymmetric Side and Forward Throw



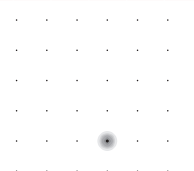
AP07
Asymmetric Extra Forward



AH02
Symmetric Wide Flood



AG01
Symmetric Narrow 11°



AG02
Symmetric Medium 26°

AIRPORTS

PORTS

TRAFFIC

LOGISTICS

SPORTS

TRAFFIC

SPORTS

COLOUR TEMPERATURES



3,000 K*



4,000 K



5,700 K

Standard CRI ≥ 70, CRI ≥ 80 on request

*For E-Series only



IP66 RoHS IK08

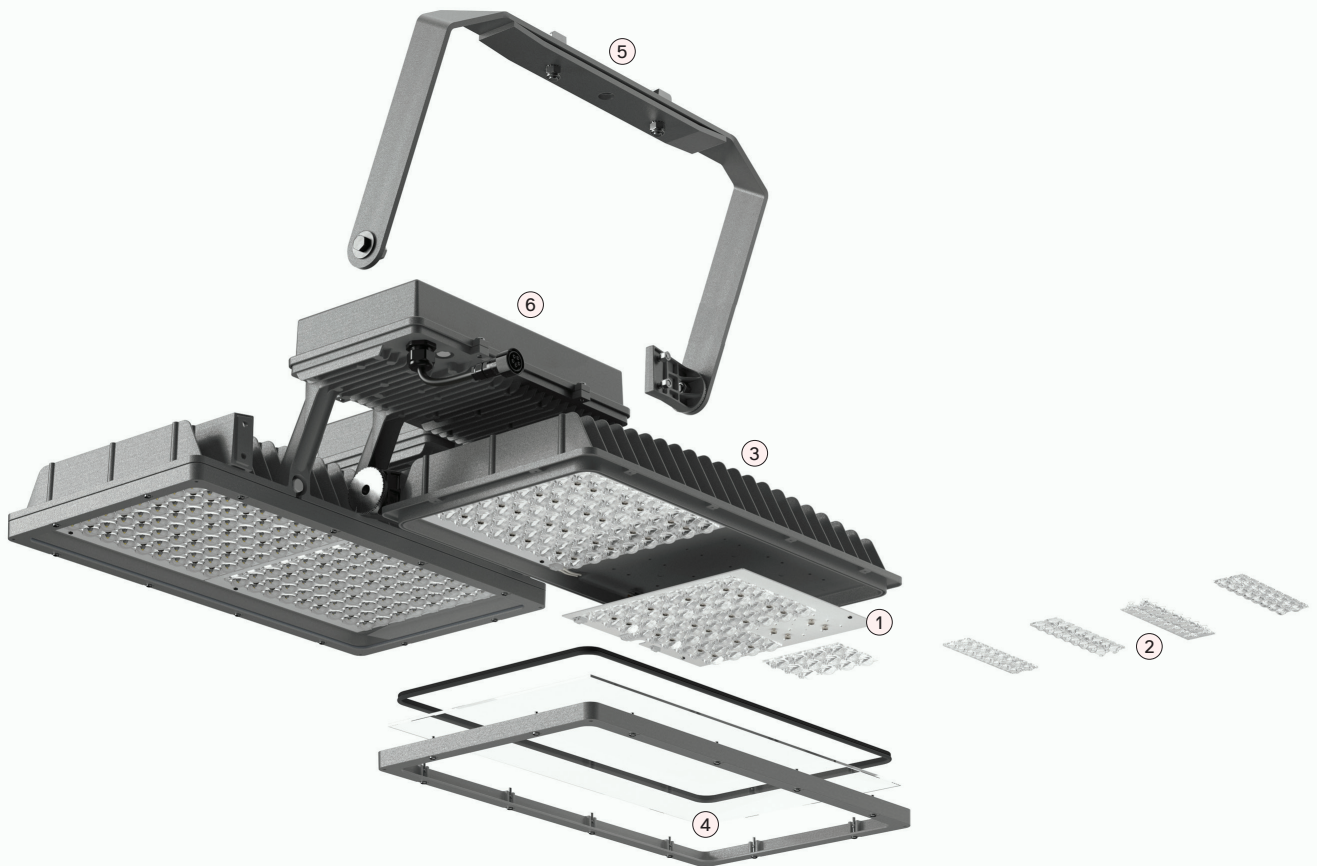


You will find the complete selection of light distributions on ewo.com

R-System gen3

Superior flexibility thanks to modular design

Each project has its own specific requirements. That's why we have developed a modular product system, which we can modify and fine-tune down to the smallest details, allowing us to produce sophisticated and technologically advanced solutions in different settings as well as a sustainable spare parts supply system.



①	CIRCUIT BOARD	individually interchangeable	wide-ranging configuration options
②	LENS OPTICS	non-yellowing PMMA and UV stabilised PC	different light distributions
③	COOLING SYSTEM	reliable temperature management	optimal thermal performance
④	GLASS COVER	high transmittance level	protection of optical components
⑤	ASSEMBLY BAR	infinitely variable, 360° swivelling	floor, wall and ceiling mounting
⑥	DRIVER CASING	separate mounting	for optimal thermal separation



R4 / Tilt 5°
 EP09-L / Asymmetric Extra Forward - Left (144 LEDs) /
 EP09-R / Asymmetric Extra Forward - Right (144 LEDs)



R2 / Tilt 5°
 EP09-L / Asymmetric Extra Forward - Left (72 LEDs) /
 EP09-R / Asymmetric Extra Forward - Right (72 LEDs)

R-System gen3 MAX

Top performance for sports

When it comes to sports stadium lighting, maximum performance and output are an absolute must. And that is just what the R-System gen3 MAX delivers with about 250,000 lm. Moreover, it is compatible with DMX-DALI converters for light shows and, with its swivel mount, can be mounted to cope with any situation.

AREAS OF APPLICATION	Recreational, semi-professional and professional sports areas
HIGH LUMEN PACKAGE	up to 265,000 lm
CURRENT FEED	up to 2,200 mA, depending on ambient temperature
AMBIENT TEMPERATURE RANGE	-40 to +55 °C
OUTSTANDING LIFETIME	L80B10 > 60,000 h
ELECTRONIC OPERATING DEVICE	on request with DALI2 or Line Switch, 1-10 V, CLO and DMX
SMART LIGHTING	control modules for different communication standards available
LENSES	UV-stabilised Polycarbonate
COVER	single-pane safety glass (ESG)
LUMINAIRE HOUSING	in die-cast aluminium
BRACKET	made of hot-dip galvanised steel, on request with swivelling bracket, for floor, wall and ceiling mounting
FINISH	polyester powder coating, white aluminium (RAL 9006 / DB 701)



Top performance in sport, shown in its best light

R-System gen3 MAX

MODEL VARIANTS



R2-MAX (light distribution A-Series)

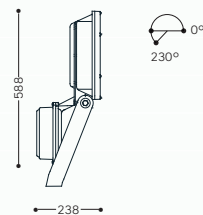
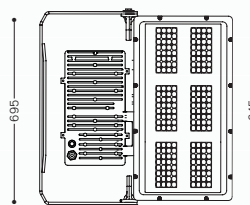


R4-MAX (light distribution A-Series)

R2-MAX (A-Series)

24 kg
+ 4.5 kg driver

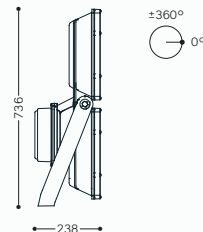
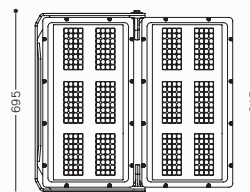
↓ ① = 0.33° / 0.33° / 0.11°***
→ ② = 0.11° / 0.15° / 0.34°***



R4-MAX (A-Series)

37.5 kg
+ 6.5 kg driver

↓ ① = 0.45° / 0.45° / 0.12°***
→ ② = 0.12° / 0.28° / 0.47°***

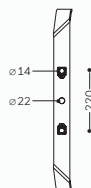


① Projected windage area [m²] ② Lateral windage area [m²] *Tilt 0° **Tilt 5° ***Tilt 90°

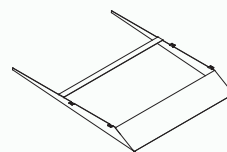
ACCESSORIES



360° Swivel-mounted bracket



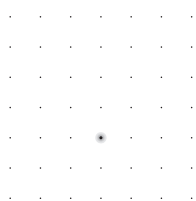
Driver box



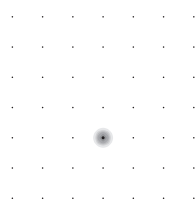
Full-cut-off-visor (E-Series)

MODEL	LIGHT DISTRIBUTION	LUMINOUS FLUX [lm]	MAX. POWER [W]	MAX. CURRENT FEED [mA]	LEDs
R2 MAX	A-Series	132,500	1,079	2,000	192
R4 MAX	A-Series	265,000	2,357	2,000	384
R2 MAX	E-Series	96,630	965	2,200	144
R2 MAX	E-Series	193,000	1,930	2,200	288

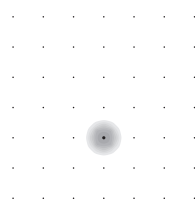
LIGHT DISTRIBUTIONS



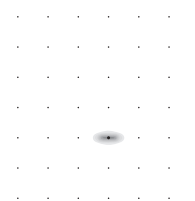
AG01
Symmetric Narrow 17°



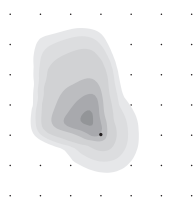
AG02
Symmetric Medium 32°



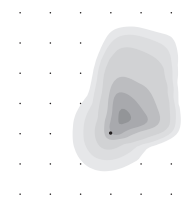
AG03
Symmetric Flood 55°



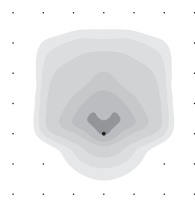
AG04
Symmetric Elliptical 17° - 46°



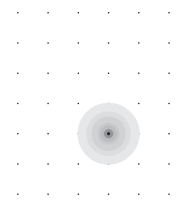
EP09-L
Asymmetric Extra Forward -
Left



EP09-R
Asymmetric Extra Forward -
Right



EP09-L/R
Asymmetric Extra Forward -
Left/Right



AH02
Symmetric Wide Flood

COLOUR TEMPERATURES



3,000 K

3,000 K: CRI ≥ 70*
4,000 K: Standard CRI ≥ 70, CRI ≥ 80**
5,700 K: Standard CRI ≥ 70, CRI ≥ 80** and ≥ 90**



4,000 K



5,700 K

* For E-Series only
** For A-Series only

220-277 V_{AC} 50 / 60 Hz

 IP66 RoHS IK08

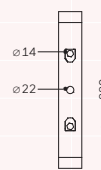
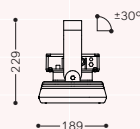
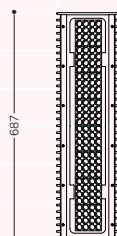
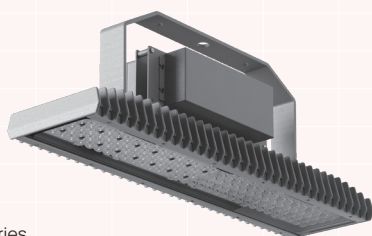


You will find the complete selection
of light distributions on ewo.com

R-System R1

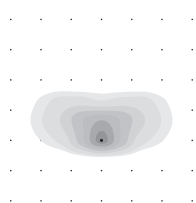
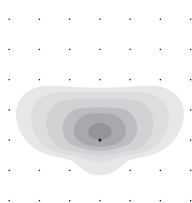
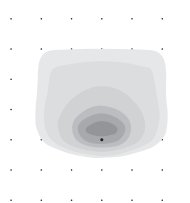
The tried-and-proven R-System R1 is still available and optimised for applications such as traffic areas as well as small sports areas (tennis courts etc.).

R1 A-Series



MODEL	LIGHT DISTRIBUTION	LUMINOUS FLUX [lm]	MAX. POWER [W]	MAX CURRENT FEED [mA]	LEDs
R1	A-Series	33,961	273	700	128

LIGHT DISTRIBUTIONS

AS07
Asymmetric Side ThrowAS08
Asymmetric Side and Forward ThrowAP07
Asymmetric Extra Forward

COLOURS



4.000 K



5.700 K

Standard CRI ≥ 70, CRI ≥ 80 upon request

You will find the complete selection of light distributions on ewo.com

7.5 kg
+ 3 kg driver

① = 0.13
② = 0.05* / 0.08**



IP66 RoHS IK08



① Projected windage area [m²]
*Tilt 0° **Tilt 30°
② Lateral windage area [m²]

OPTIMISED PERFORMANCE

33,961 lm, 110–130 lm/W

LIFETIME

L80B10 ≤ 100,000 h

ELECTRONIC OPERATING DEVICE

DALI interface and CLO on request

SMART LIGHTING


different control modules possible

MATERIALS

lens optics made from PMMA
luminaire body from die-cast aluminium
luminaire cover of reinforced safety glass (ESG)

Heliport projector

ewo's heliport luminaire is suitable as a surface light on platforms and landing fields for helicopters. The permissible total height of 25 cm under ICAO is not exceeded and therefore does not create any obstacle on the platform. Thanks to stepless adjustment of the glare visor, a glare-free landing can be guaranteed.



IN Series

ADJUSTABLE
Glare visor -10° +20°
Bracket -30° +30°

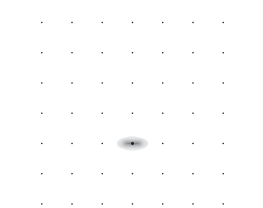
PROTECTION CLASS 1

VOLTAGE
230 V 50 Hz

① = 0.12

② = 0.04

OPTIONAL
External power supply unit in SELV



AG04
Symmetric Elliptical 17°– 46°



LIGHTING UNITS	holds 1 lighting unit board (16 LEDs)
CURRENT FEED	200–500 mA
LIFETIME	L80B10 > 100,000 h
ELECTR. OPERATING UNIT	electronic operating device on request with DALI interface, 1-10 V or stand-alone programming

Dubai International Airport DXB

A global hub, made ship-shape for the future

AREA	12.5 km ² / 12,500,000 m ²
PRODUCT	R-System gen1
QUANTITY	1.000 floodlights
POLE SYSTEM	Europoles

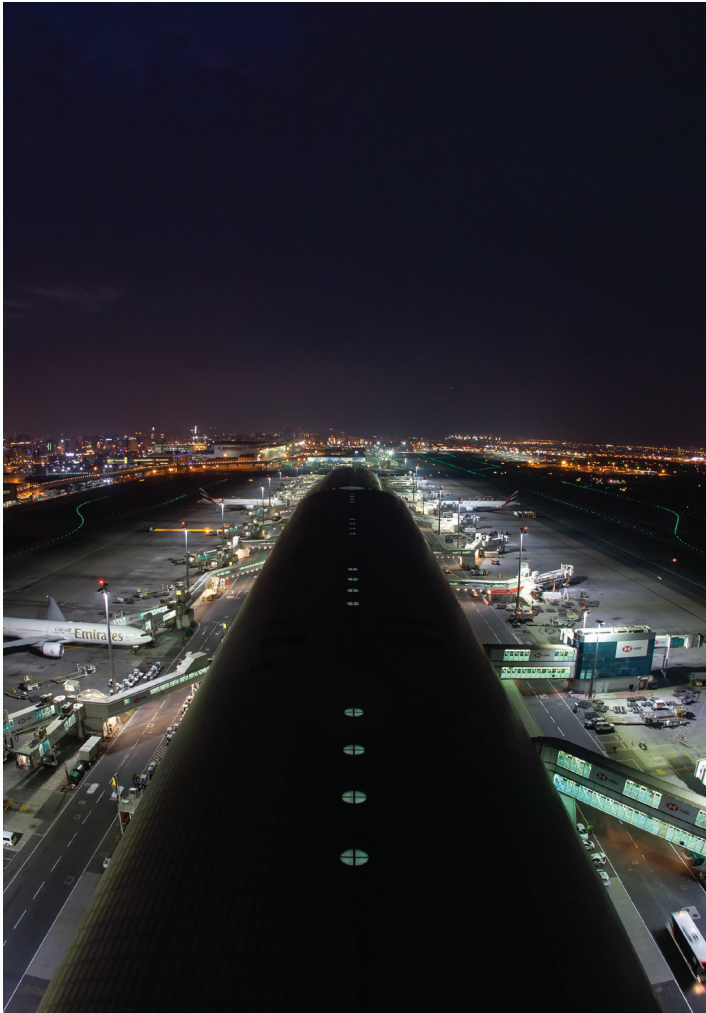
With 90 million passengers per year, Dubai International Airport is one of the most important hubs in the world.

Here all the halogen lights have been completely replaced by 1,000 LED floodlights from ewo. What is remarkable about this is a reduction in total number of floodlights at the same time as a boost in the lux value to 30 lx.



Dubai International Airport DXB / UAE / 2020

The result: greater precision and considerable energy efficiency. 63% less energy consumption from 2,200 kW to 810 kW, with annual energy savings of 7,000 MWh.



“Safety is the crucial issue in air traffic, and lighting is of paramount importance. Lighting on the apron enhances safety when important standards are met, when it is durable and reliable. Our R–System will do this - no compromises.”

Hannes Wohlgemuth, CEO

Safety at the workplace and therefore for 90 million annual passengers through precision lighting



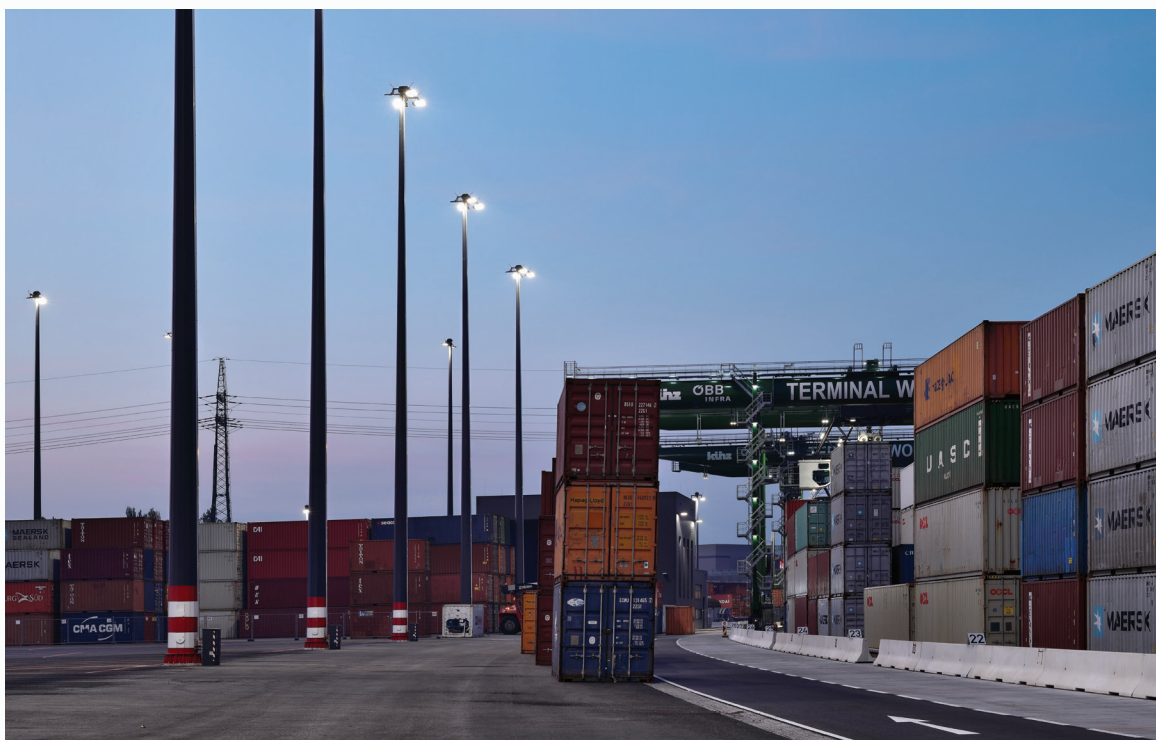
Wolfurt ÖBB Container Terminal

The logistics of logistics

AREA	54,000 m ²
PRODUCT	F-System LARGE, F32
QUANTITY	103 floodlights
POLE SYSTEM	Europoles

The ÖBB terminal in Wolfurt comprises 54,000 square metres of space. Every square metre must be perfectly accessible and visible day and night in order to guarantee the smooth flow of goods.

It was for this reason that exceptionally high masts were used to ensure an optimal, capable lighting system.

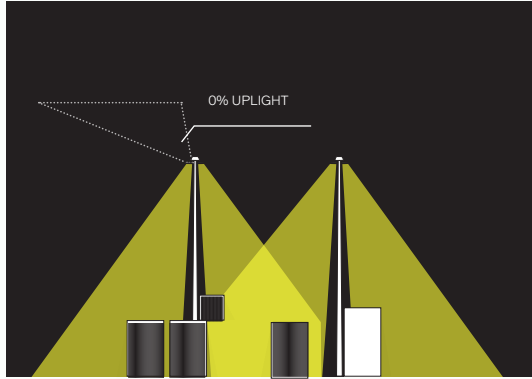


High-tech lighting for complex deliveries

ewo specially developed a differentiated “left-right” optical systyem for optimal illumination of horizontal and vertical work areas.



Power and efficiency - 30 lx and 45.4 kW

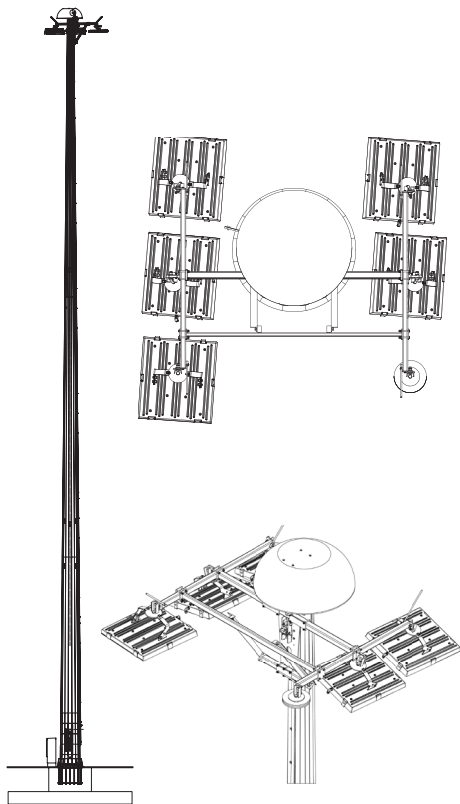


Shadow-free multi-layer lighting

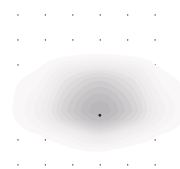
“The key factor is precision. Our left-right system illuminates containers and aisles without casting shadows, of course with 0% light pollution.”

Ernst Wohlgemuth, Founder and CTO

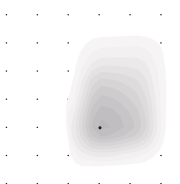
POLES WITH LOWERING SYSTEM



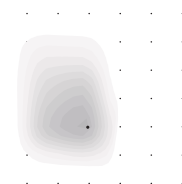
LIGHT DISTRIBUTIONS



LS34
Asymmetric Side Throw



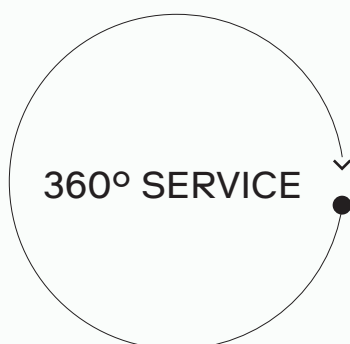
LP32-R
Asymmetric Extra Forward -
Right



LP32-L
Asymmetric Extra Forward -
Left

ewo Services

ewo remains close to the customer from the initial project idea, through support in project planning, to installation and even afterwards. Because we are not just focused on products, but also on providing all-embracing solutions and a full set of services for sustainable projects.



DESIGN SUPPORT

Our solutions include, for example, meticulous support in lighting design and planning. All over the world, our experienced lighting engineers work to ensure that current standards like ICAO, EASA, MOS and ISNEA are met and that the perfect light is found for each individual area.

INSTALLATION SUPPORT AND COMMISSIONING

Above and beyond light, our technicians support customers by providing them comprehensive instructions and guidance in the installation of lighting poles on site. We support installation of our high-performance floodlights worldwide.

AFTERSALES SERVICES

Our floodlights are easy to upgrade, repair and adjust. On top of all this, we offer efficient, sustainable spare parts management: central components of the luminaire can be easily replaced using a structured modular system. Maintenance work and costs are reduced to a minimum while upholding the same quality standards.

LightLogger – Hardware and Software

This easy-to-operate mobile measuring device increases accuracy and saves time when it comes to the precise measurement of illuminance values - for any and all large areas.



Munich Airport

AREAS OF APPLICATION	airports, car parks, ports, sports grounds, terminals
HANDLING & FUNCTIONALITY	quick assembly for only one person, mobile assembly, georeferencing via GPS, robust transport case, self-aligning measuring sensors, rugged tablet
MEASUREMENT SPECIFICATIONS	potential measurement of single points / wider surface areas: 1. simultaneous recording of up to 6 measuring points 2. horizontal measurement at 0 or 2 m 3. vertical measurement in four directions on 2 m measurement of illuminance lux (lx) and other values
SOFTWARE	automatic recording and evaluation in real time. Various measurement modes: 1. free measurement 2. raster measurement 3. measurement based on existing light calculations 4. comparative measurement reports and management of measurements export of data in different formats (e.g. GPS coordinates, Excel, CSV, ...)
ILLUMINANCE METER CLASS	class AA of JIS 1609-1:2006 illuminance meters part 1: general measuring instruments DIN 5032 Part 7 Class B



For more than 20 years ewo has been making places shine: picturesque footpaths and urban meeting places, streets, cultural buildings and squares, airports and other transport and industrial environments. For us, the cutting edge requires use of the latest technology to create tailor-made solutions.

At our location in South Tyrol we develop and manufacture high-quality products for the distribution, control and limitation of light in public spaces.

A modular LED unit is the basis of ewo's peerless customer-centric, sustainable and energy-saving lighting projects, which operate on any and every scale.

We bring passionate curiosity for individual requirements, such as individualised lighting effects, special demands on form, colour and material of the luminaires, sensitive or extreme environments, special technical specifications. The examination of cultural and artistic questions, the experimental exchange with architecture, art and design have for us a special significance.

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Errors and omissions possible.
Subject to change.

ewo LARGE AREA LIGHTING

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