

**Product configuration: BL03**

**Product code**

### Technical description

## Installation

## Colour

Weight (Kg)

## Mounting

## Wiring

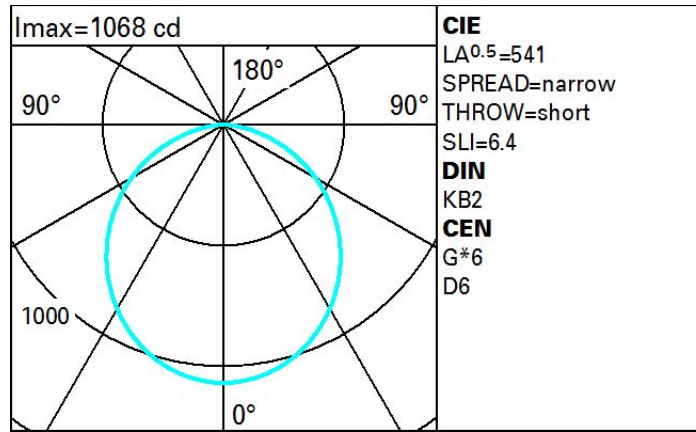
Complies with EN60598-1 and pertinent regulations



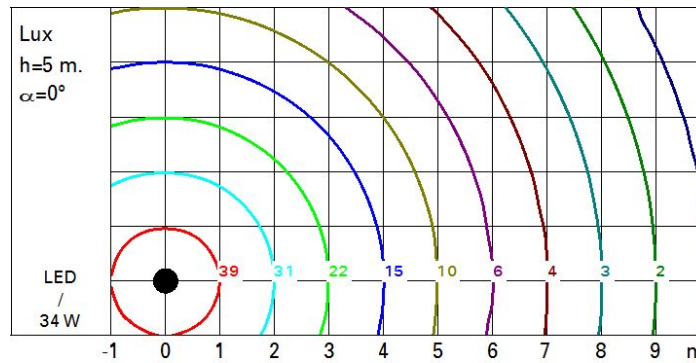
## Technical data

BL03 EN 1 / 2

# Polar



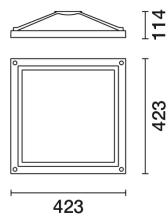
# Isolux



Last information update: January 2025

**Product configuration: BL02**

BL02: U.F.O. - Pole-mounted system - Small body optical assembly - Warm White - SC optic

**Product code**

BL02: U.F.O. - Pole-mounted system - Small body optical assembly - Warm White - SC optic

**Technical description**

Outdoor luminaire with roto-symmetrical optic (SC) and direct light giving high level visual comfort (G5), designed to use LED lamps. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. Opal polycarbonate closing glass with silicone seal for the frame closes the LED assembly, fixed to the component-holder box by a hinge and 4 screws. The high IP66 rating is guaranteed by the 60 Shore silicone seal interposed between the two elements. Complete with circuit having Warm White (3000K) monochrome LEDs. Replaceable LED unit. Control gear, connected using quick-couplings, can be removed using clips. Driver with automatic inner temperature control system. Driver with 4 operating profiles, fixed profile at 100% and three different profiles with midnight point recognition and dimming period duration of 6h/8h/10h. Profiles can be selected using microswitches (operating cycles can be customised using dedicated software). Selv 220-240V ac 50/60Hz electronic ballast. Replaceable control gear unit. The optical assembly is fixed to the arm by 4 fixing screws with anti-loosening device. The light flow emitted in the upper hemisphere of the System in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). All external screws used are made of stainless steel.

**Installation**

The floodlight can be installed using steel arms for diameters  $\varnothing 76/102$ mm. For diameters  $\varnothing 60$ mm to  $\varnothing 89$ mm use the adapter.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

**Wiring**

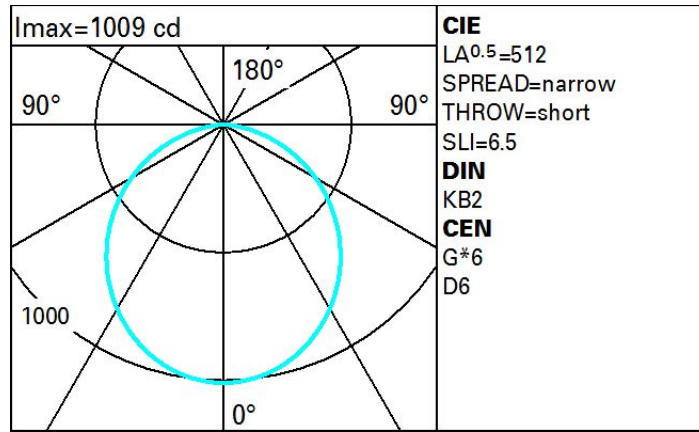
The product is powered by cables from a pre-wiring box with terminal block and 4A T fuse. Resistance to mains voltage peaks up to 10KV (with varistor). Product perfect watertightness at the power cable entry point is guaranteed by the nickel-plated brass M24 cable clamp (suitable for cables with  $\varnothing 7$ mm- $\varnothing 16$ mm).

Complies with EN60598-1 and pertinent regulations

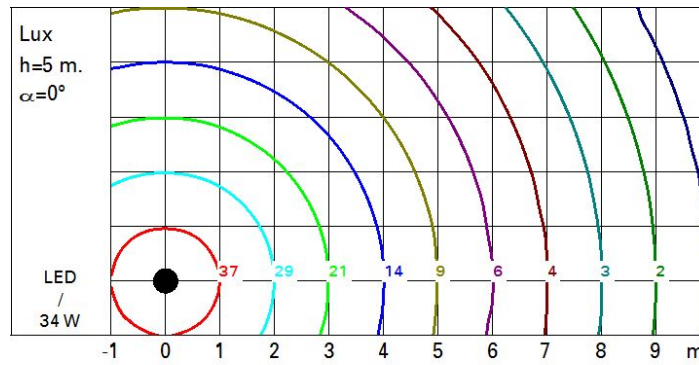
**Technical data**

lm system:	2750	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W system:	34	Lamp code:	LED
lm source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	80.9	Number of optical assemblies:	1
lm in emergency mode:	-	Intervall temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - $\mu$ s
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	3000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L80 - B20 (Ta 15°C)	Control:	Midnight preset/DALI NFC

# Polar



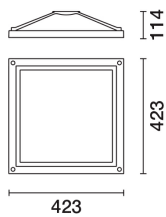
# Isolux



Last information update: January 2025

**Product configuration: UE00**

UE00: Pole-mounted system - A60 optic - Neutral White - Ta 50°C

**Product code**

UE00: Pole-mounted system - A60 optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



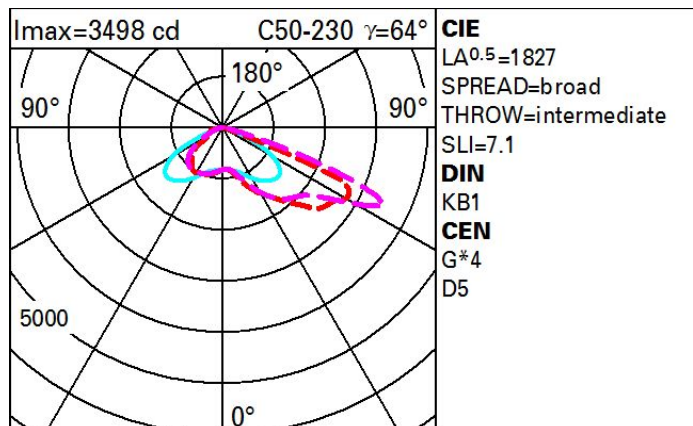
IK08

IP66

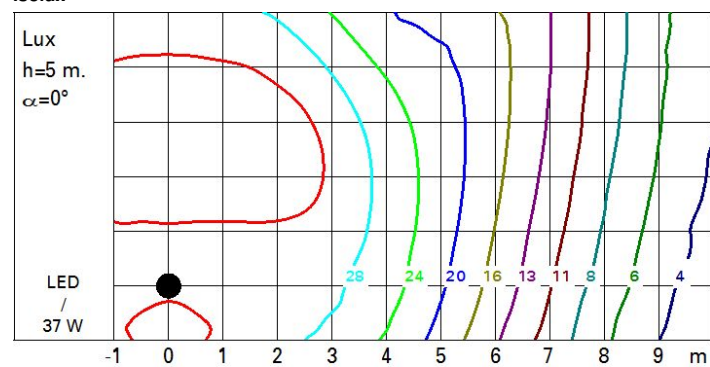
**Technical data**

Im system:	5640
W system:	37
Im source:	-
W source:	-
Luminous efficiency (lm/W, real value):	152.4
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	4000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

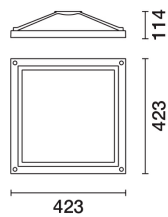
# Isolux



Last information update: January 2025

**Product configuration: UD99**

UD99: Pole-mounted system - A60 optic - Warm White - Ta 50°C

**Product code**

UD99: Pole-mounted system - A60 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

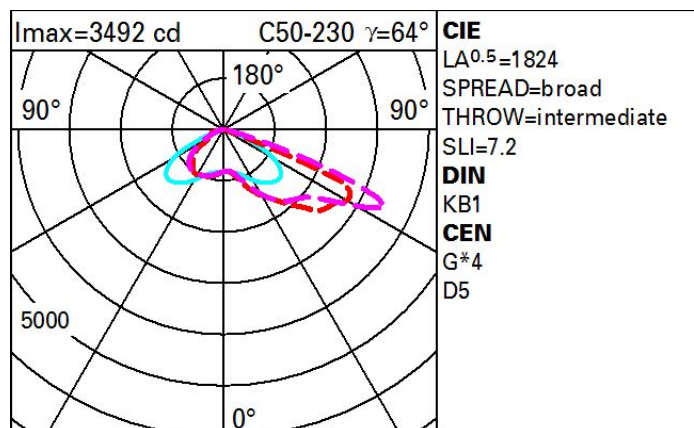
**Mounting**

pole arm|pole-top side entry|pole-top

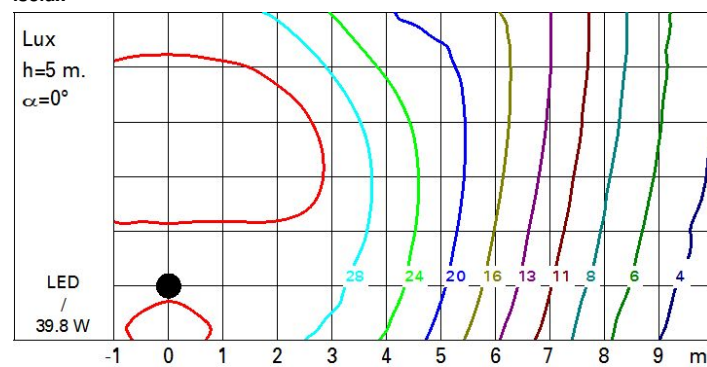
Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	5630	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	39.8	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	141.5	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	3000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	Midnight preset/DALI NFC

**Polar**

# Isolux

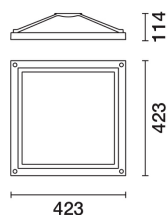




Last information update: January 2025

**Product configuration: UD98**

UD98: Pole-mounted system - A60 optic - Warm White - Ta 50°C

**Product code**

UD98: Pole-mounted system - A60 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



IK08

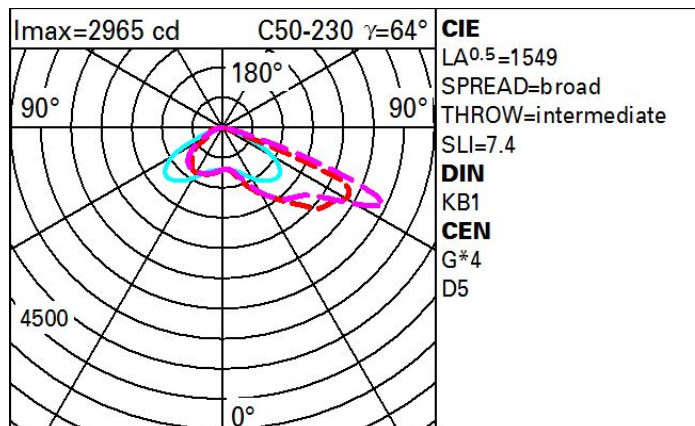


IP66

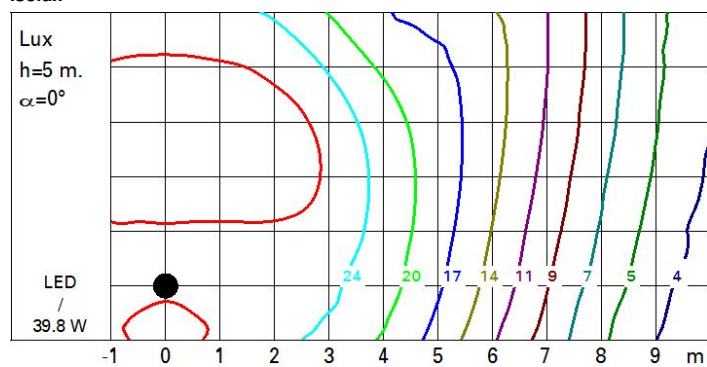
**Technical data**

Im system:	4780
W system:	39.8
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	120.1
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	2200
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

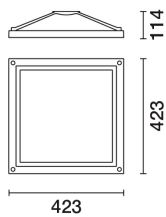
# Isolux



Last information update: January 2025

**Product configuration: UD88**

UD88: Pole-mounted system - ST1 optic - Neutral White - Ta 50°C

**Product code**

UD88: Pole-mounted system - ST1 optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



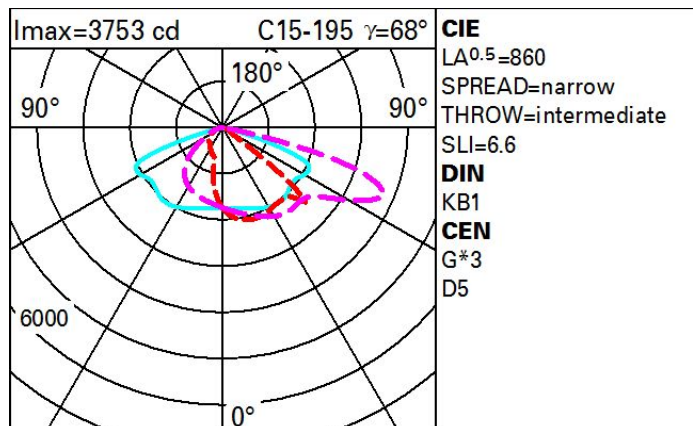
IK08

IP66

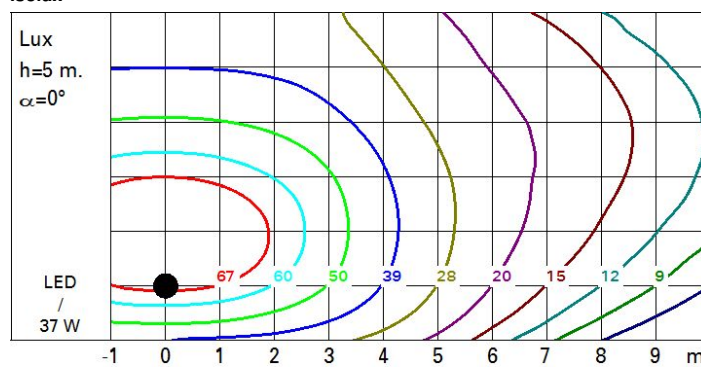
**Technical data**

Im system:	5710
W system:	37
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	154.3
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	4000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

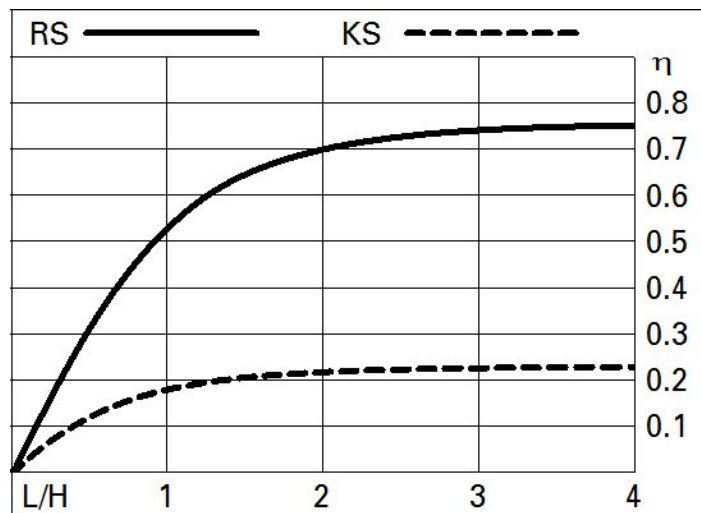
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



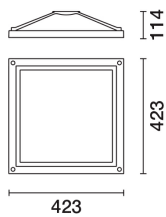
# Utilisation factors



Last information update: July 2024

**Product configuration: S075**

S075: Pole-mounted system - STZr optic - Neutral White - Ta 50°C

**Product code**

S075: Pole-mounted system - STZr optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



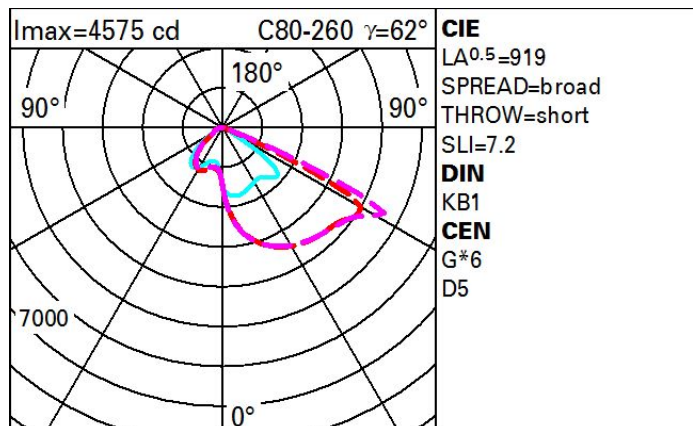
IK08

IP66

**Technical data**

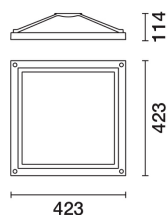
Im system:	5640
W system:	37
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	152.4
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	4000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	DALI-2

**Polar**

**Product configuration: S078**

S078: Pole-mounted system - STZr optic - Neutral White - Ta 50°C



## Product code

S078: Pole-mounted system - STZr optic - Neutral White - Ta 50°C

### Technical description

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

## Installation

The projector can be installed on  $\varnothing 76/102\text{mm}$  diameters via steel arms. For  $\varnothing 60\text{mm}$  to  $\varnothing 89\text{mm}$  diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

## Weight (Kg)

## 5.8

## Mounting

pole arm|pole-top side entry|pole-top

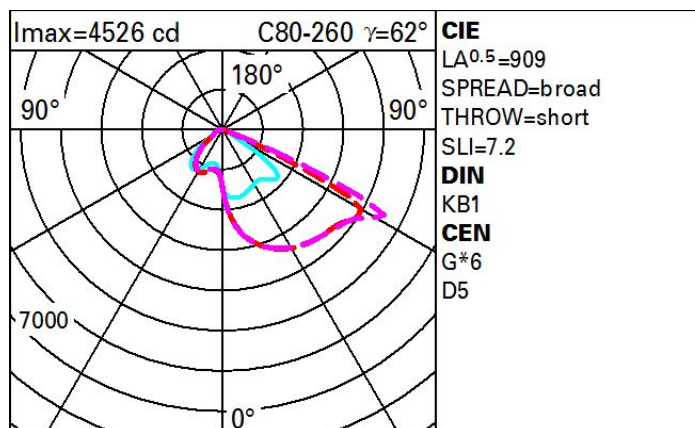
Complies with EN60598-1 and pertinent regulations



## Technical data

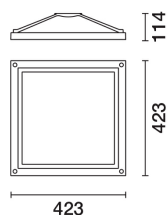
Im system:	5580	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	37	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	150.8	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	5700	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	DALI-2

## Polar



**Product configuration: UE15**

UE15: Pole-mounted system - STZr optic - Neutral White - Ta 50°C



UE15: Pole-mounted system - STZr optic - Neutral White - Ta 50°C

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

The projector can be installed on  $\varnothing 76/102\text{mm}$  diameters via steel arms. For  $\varnothing 60\text{mm}$  to  $\varnothing 89\text{mm}$  diameters a reducer can be used.

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

## 5.8

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



Im system:	3650
W system:	24.2
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	150.8
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	4000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 35°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	DALI-2

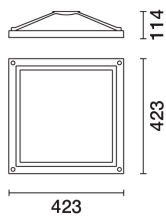
A candela diagram (photometric curve) showing the beam spread and throw of a lighting fixture. The diagram is a polar plot with concentric circles representing beam diameter (4500, 9000, 13500, 18000, 22500, 27000, 31500, 36000, 40500, 45000, 50000, 54000, 59000, 63000, 68000, 73000, 78000, 83000, 88000, 93000, 98000, 103000, 108000, 113000, 118000, 123000, 128000, 133000, 138000, 143000, 148000, 153000, 158000, 163000, 168000, 173000, 178000, 183000, 188000, 193000, 198000, 203000, 208000, 213000, 218000, 223000, 228000, 233000, 238000, 243000, 248000, 253000, 258000, 263000, 268000, 273000, 278000, 283000, 288000, 293000, 298000, 303000, 308000, 313000, 318000, 323000, 328000, 333000, 338000, 343000, 348000, 353000, 358000, 363000, 368000, 373000, 378000, 383000, 388000, 393000, 398000, 403000, 408000, 413000, 418000, 423000, 428000, 433000, 438000, 443000, 448000, 453000, 458000, 463000, 468000, 473000, 478000, 483000, 488000, 493000, 498000, 503000, 508000, 513000, 518000, 523000, 528000, 533000, 538000, 543000, 548000, 553000, 558000, 563000, 568000, 573000, 578000, 583000, 588000, 593000, 598000, 603000, 608000, 613000, 618000, 623000, 628000, 633000, 638000, 643000, 648000, 653000, 658000, 663000, 668000, 673000, 678000, 683000, 688000, 693000, 698000, 703000, 708000, 713000, 718000, 723000, 728000, 733000, 738000, 743000, 748000, 753000, 758000, 763000, 768000, 773000, 778000, 783000, 788000, 793000, 798000, 803000, 808000, 813000, 818000, 823000, 828000, 833000, 838000, 843000, 848000, 853000, 858000, 863000, 868000, 873000, 878000, 883000, 888000, 893000, 898000, 903000, 908000, 913000, 918000, 923000, 928000, 933000, 938000, 943000, 948000, 953000, 958000, 963000, 968000, 973000, 978000, 983000, 988000, 993000, 998000, 1000000). The diagram shows a beam spread of 62 degrees and a throw of 2961 feet. The beam is labeled with a diameter of 4500 feet. The diagram is titled "C80-260" and "CIE".



Last information update: July 2024

**Product configuration: S077**

S077: Pole-mounted system - STZr optic - Neutral White - Ta 50°C

**Product code**

S077: Pole-mounted system - STZr optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on  $\varnothing 76/102$ mm diameters via steel arms. For  $\varnothing 60$ mm to  $\varnothing 89$ mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



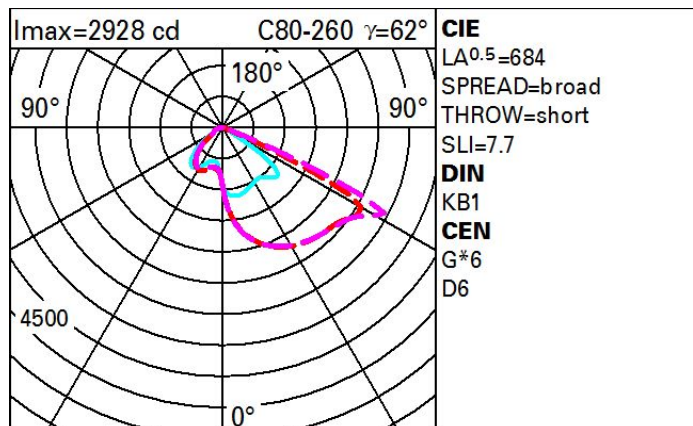
IK08

IP66

**Technical data**

Im system:	3610
W system:	24.2
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	149.2
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	5700
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - $\mu$ s
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	DALI-2

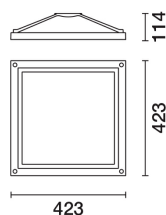
**Polar**



Last information update: July 2024

**Product configuration: S070**

S070: Pole-mounted system - STZI optic - Neutral White - Ta 50°C

**Product code**

S070: Pole-mounted system - STZI optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust Brown / White (G3)

**Weight (Kg)**

5.8

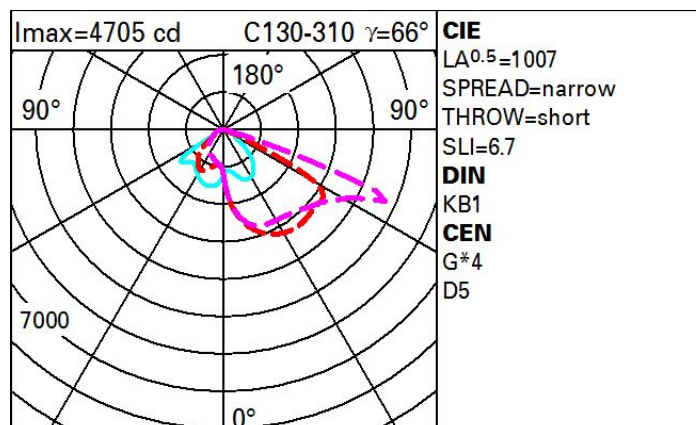
**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations

**Technical data**

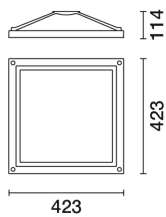
lm system:	5640	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	37	Lamp code:	LED
lm source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	152.4	Number of optical assemblies:	1
lm in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	4000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	DALI-2

**Polar**

Last information update: July 2024

**Product configuration: S073**

S073: Pole-mounted system - STZI optic - Neutral White - Ta 50°C

**Product code**

S073: Pole-mounted system - STZI optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust Brown / White (G3)

**Weight (Kg)**

5.8

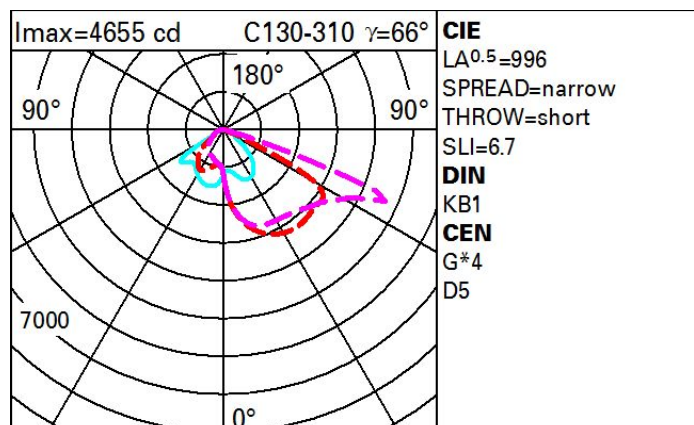
**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations

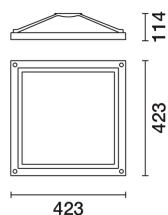
**Technical data**

Im system:	5580	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	37	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	150.8	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	5700	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	DALI-2

**Polar**

**Product configuration: UE09**

UE09: Pole-mounted system - STZI optic - Neutral White - Ta 50°C



## Product code

UE09: Pole-mounted system - STZI optic - Neutral White - Ta 50°C

### Technical description

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

## Installation

The projector can be installed on  $\varnothing 76/102\text{mm}$  diameters via steel arms. For  $\varnothing 60\text{mm}$  to  $\varnothing 89\text{mm}$  diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

## Weight (Kg)

5.8

## Mounting

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



IK08

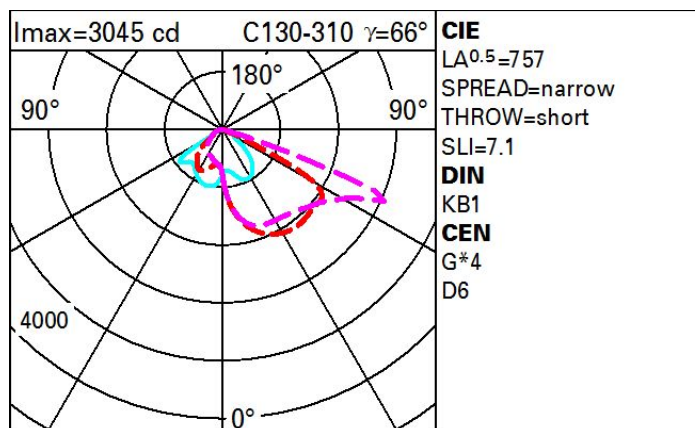
IP66



## Technical data

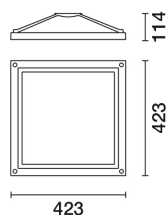
Im system:	3650	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	24.2	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	150.8	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 35°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	4000		
MacAdam Step:	3	Minimum dimming %:	5
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Overvoltage protection:	10kV Common mode & 6kV Differential mode
		Control:	DALI-2

## Polar



**Product configuration: S072**

S072: Pole-mounted system - STZI optic - Neutral White - Ta 50°C



## Product code

S072: Pole-mounted system - STZI optic - Neutral White - Ta 50°C

### Technical description

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

## Installation

The projector can be installed on  $\varnothing 76/102\text{mm}$  diameters via steel arms. For  $\varnothing 60\text{mm}$  to  $\varnothing 89\text{mm}$  diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

## Weight (Kg)

5.8

## Mounting

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



IK08

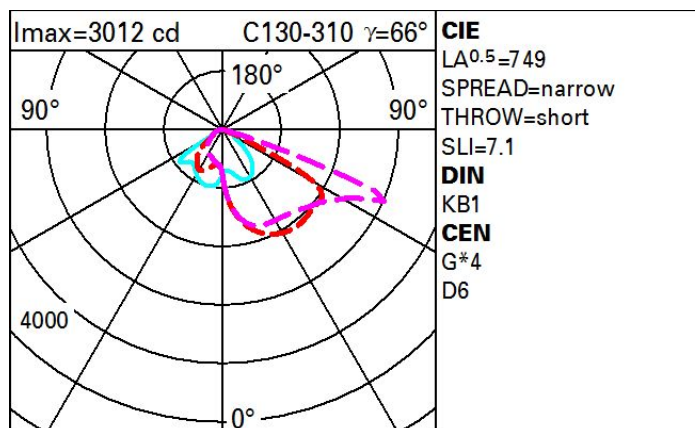
IP66



## Technical data

Im system:	3610	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	24.2	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	149.2	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	5700	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	DALI-2

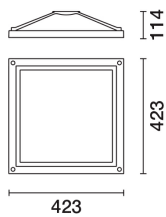
## Polar



Last information update: January 2025

**Product configuration: UE01**

UE01: Pole-mounted system - STCy0.5 optic - Warm White - Ta 50°C

**Product code**

UE01: Pole-mounted system - STCy0.5 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



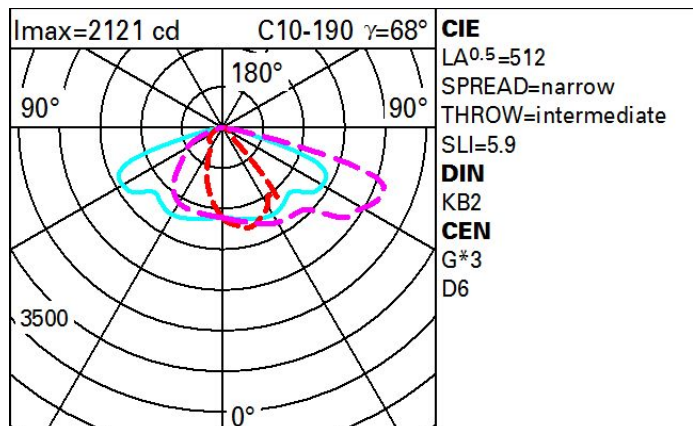
IK08

IP66

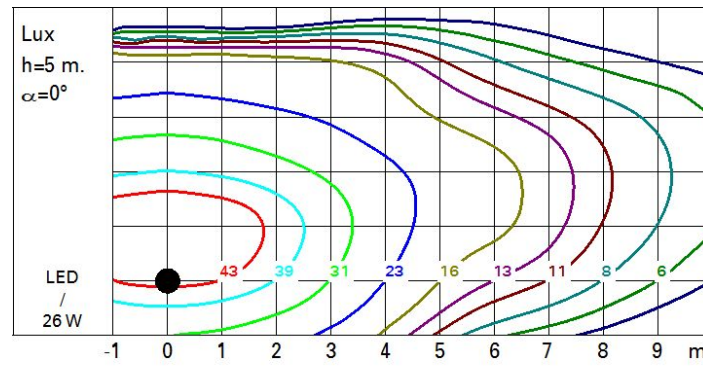
**Technical data**

Im system:	3050
W system:	26
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	117.3
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	2200
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

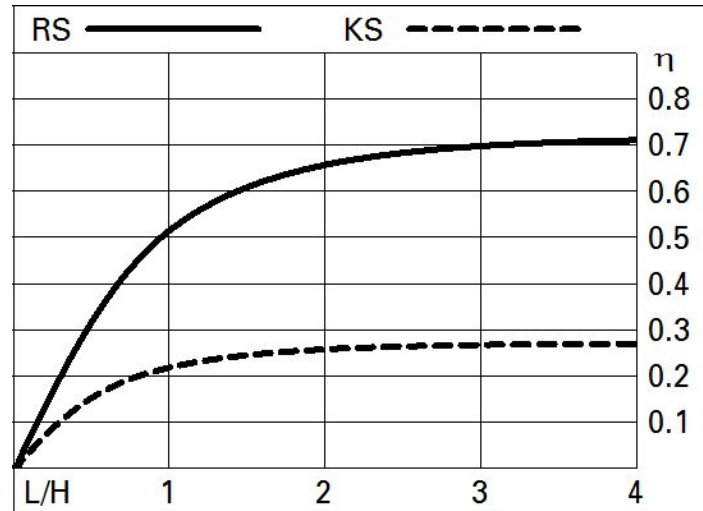
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

### Isolux



### Utilisation factors

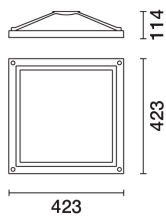




Last information update: January 2025

**Product configuration: UE02**

UE02: Pole-mounted system - STCy0.5 optic - Warm White - Ta 50°C

**Product code**

UE02: Pole-mounted system - STCy0.5 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

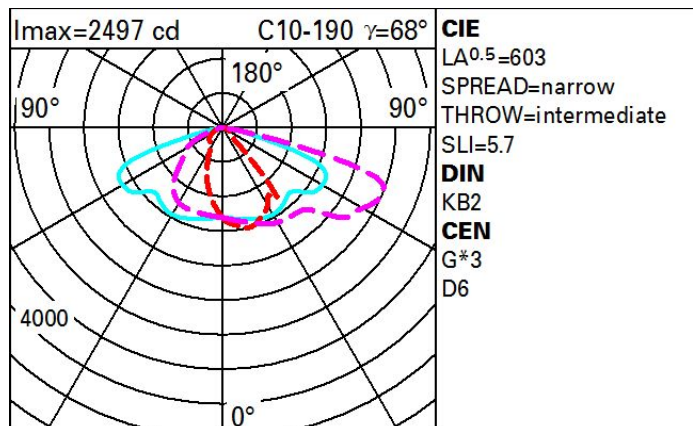
pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations

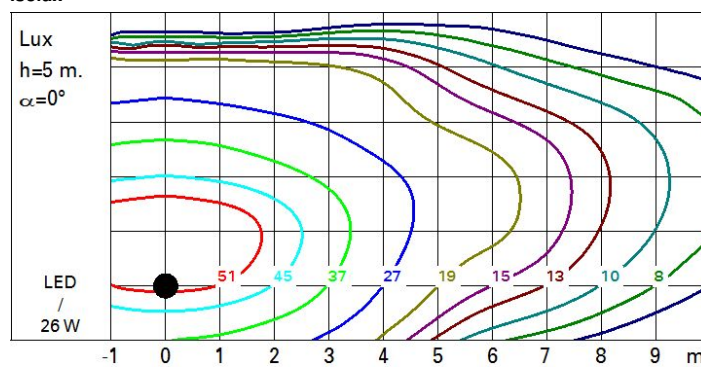
**Technical data**

Im system:	3590
W system:	26
Im source:	-
W source:	-
Luminous efficiency (lm/W, real value):	138.1
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	3000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

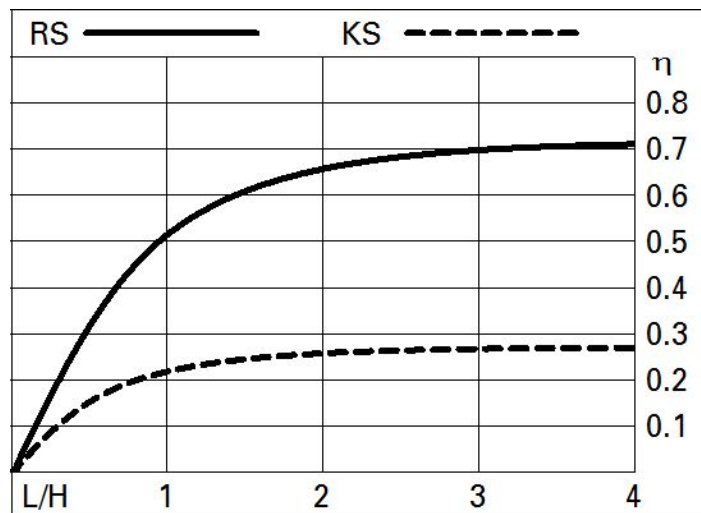
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



# Utilisation factors

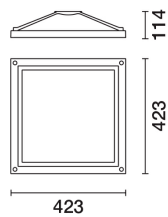




Last information update: January 2025

**Product configuration: UE03**

UE03: Pole-mounted system - STCy0.5 optic - Neutral White - Ta 50°C

**Product code**

UE03: Pole-mounted system - STCy0.5 optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

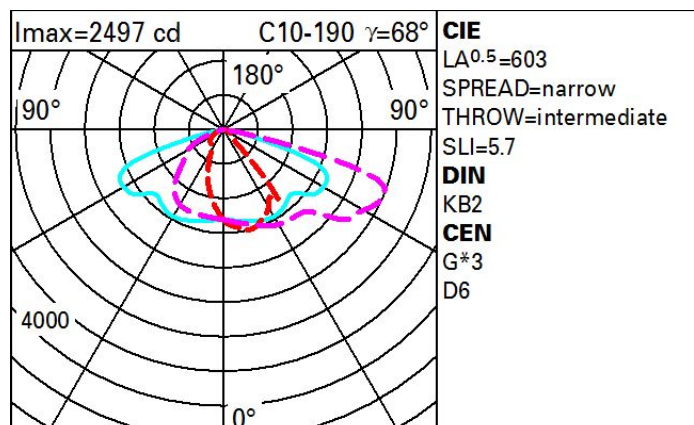
**Mounting**

pole arm|pole-top side entry|pole-top

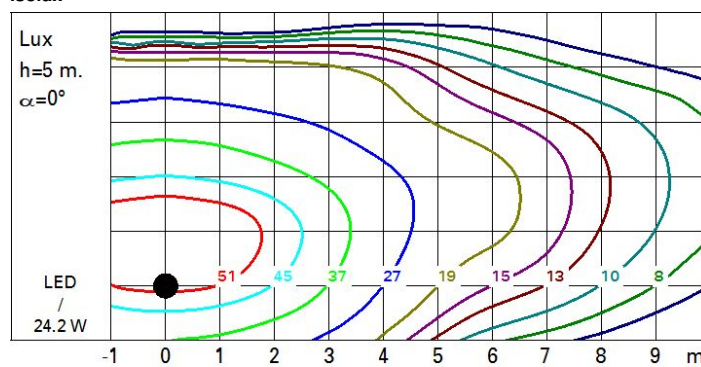
Complies with EN60598-1 and pertinent regulations

**Technical data**

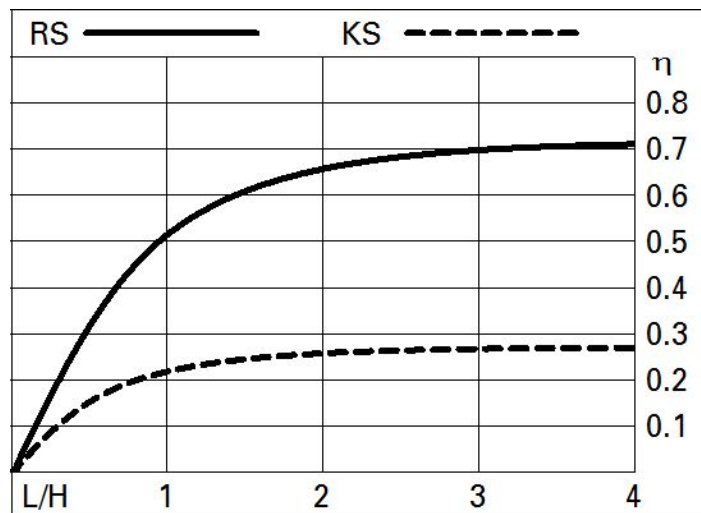
Im system:	3590	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	24.2	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	148.3	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	4000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



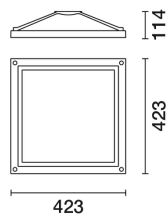
# Utilisation factors



Last information update: January 2025

**Product configuration: UD80**

UD80: Pole-mounted system - ST1U optic - Warm White - Ta 50°C

**Product code**

UD80: Pole-mounted system - ST1U optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



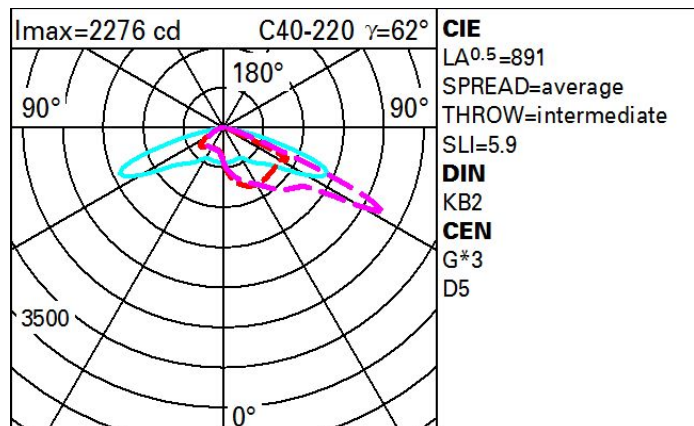
IK08

IP66

**Technical data**

Im system:	3030
W system:	26
Im source:	-
W source:	-
Luminous efficiency (lm/W, real value):	116.5
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	2200
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

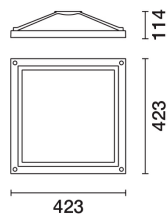
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

Last information update: January 2025

**Product configuration: UD81**

UD81: Pole-mounted system - ST1U optic - Warm White - Ta 50°C

**Product code**

UD81: Pole-mounted system - ST1U optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

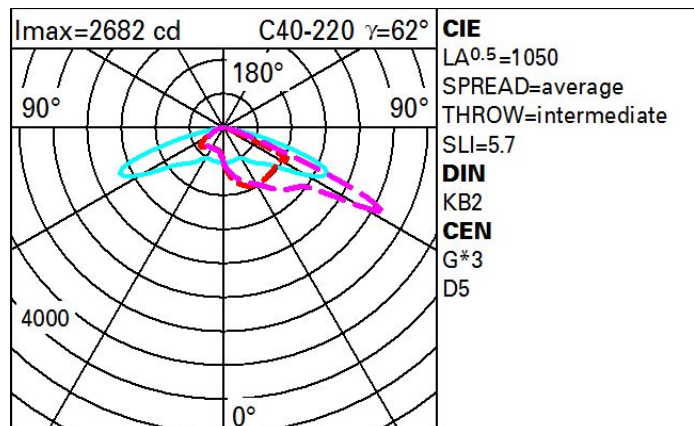
pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations

**Technical data**

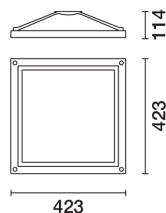
Im system:	3570
W system:	26
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	137.3
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	3000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

**Product configuration: UD82**

UD82: Pole-mounted system - ST1U optic - Neutral White - Ta 50°C



## Product code

UD82: Pole-mounted system - ST1U optic - Neutral White - Ta 50°C

### Technical description

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

## Installation

The projector can be installed on  $\varnothing 76/102\text{mm}$  diameters via steel arms. For  $\varnothing 60\text{mm}$  to  $\varnothing 89\text{mm}$  diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

## Weight (Kg)

5.8

## Mounting

pole arm|pole-top side entry|pole-top

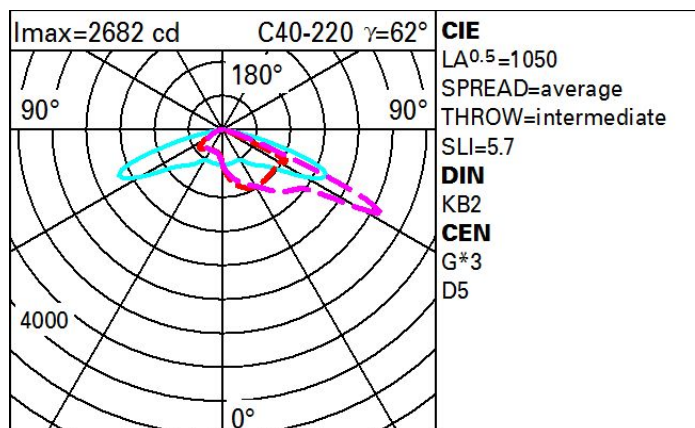
Complies with EN60598-1 and pertinent regulations



## Technical data

Im system:	3570	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	24.2	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	147.5	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	4000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	Midnight preset/DALI NFC

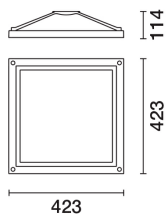
## Polar



Last information update: January 2025

**Product configuration: UD83**

UD83: Pole-mounted system - ST1U optic - Warm White - Ta 50°C

**Product code**

UD83: Pole-mounted system - ST1U optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



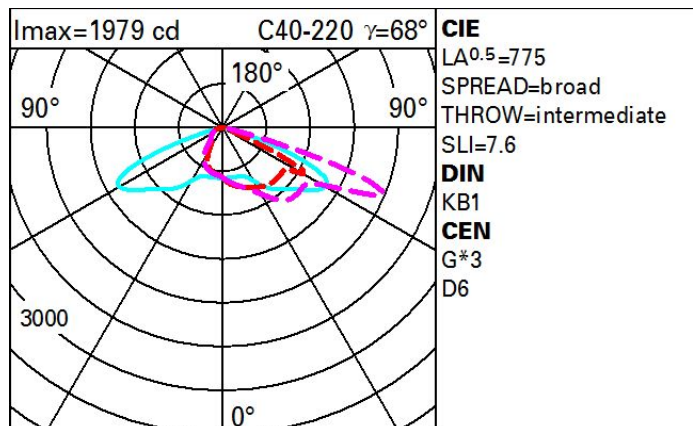
IK08

IP66

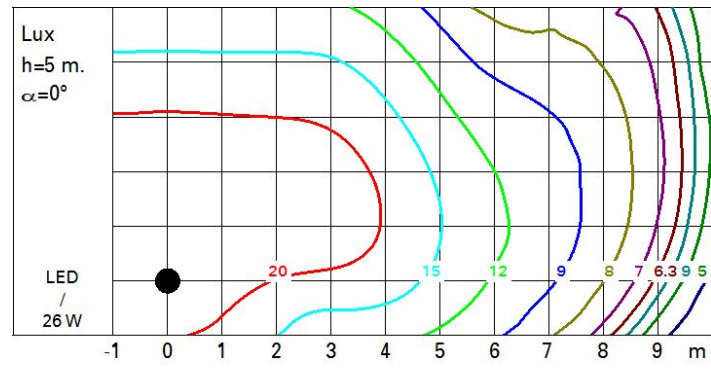
**Technical data**

Im system:	3090
W system:	26
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	118.8
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	2200
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

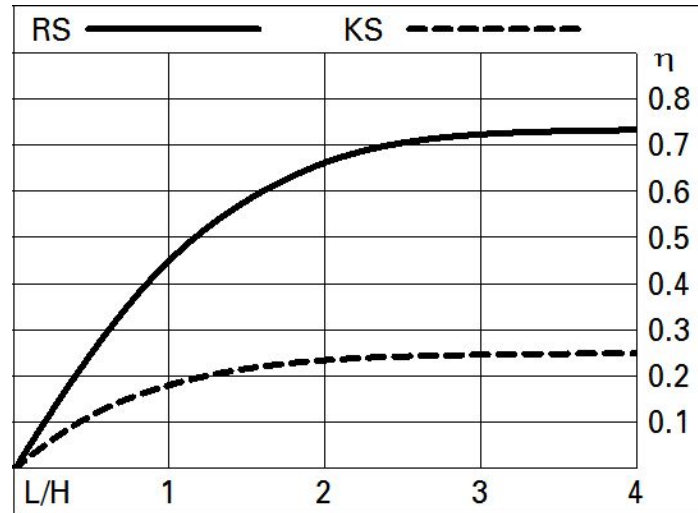
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



# Utilisation factors

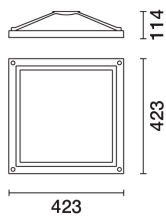




Last information update: January 2025

**Product configuration: UD84**

UD84: Pole-mounted system - ST1U.5 optic - Warm White - Ta 50°C

**Product code**

UD84: Pole-mounted system - ST1U.5 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



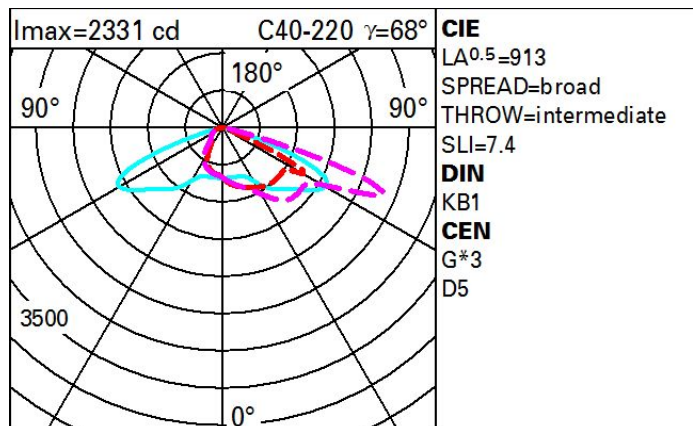
IK08

IP66

**Technical data**

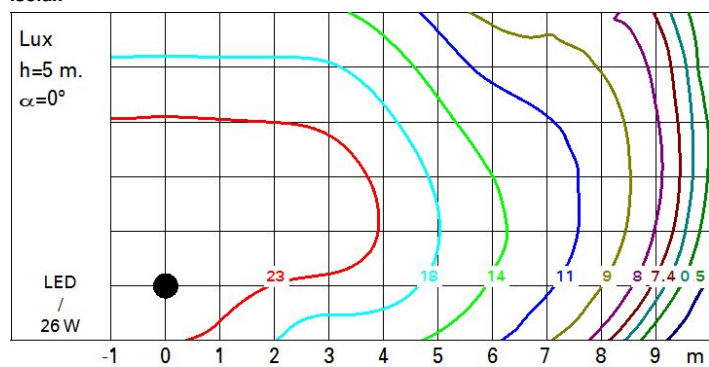
Im system:	3640
W system:	26
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	140
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	3000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

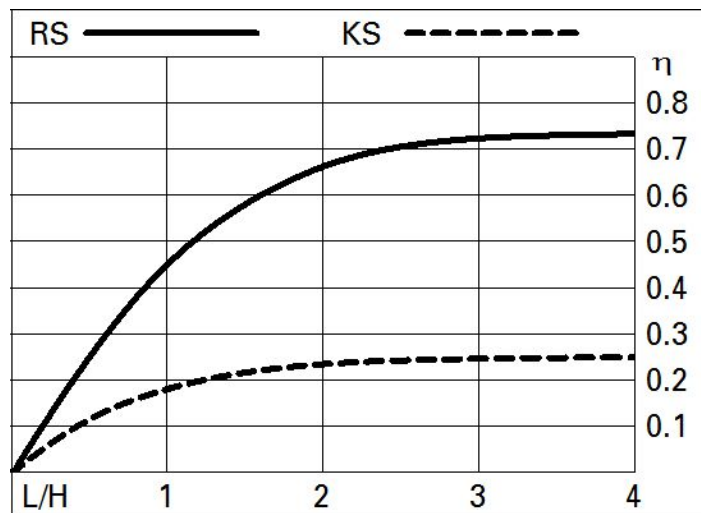
**Polar**



# Isolux



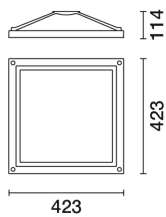
# Utilisation factors



Last information update: January 2025

**Product configuration: UD85**

UD85: Pole-mounted system - ST1.5U optic - Neutral White - Ta 50°C

**Product code**

UD85: Pole-mounted system - ST1.5U optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Neutral White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



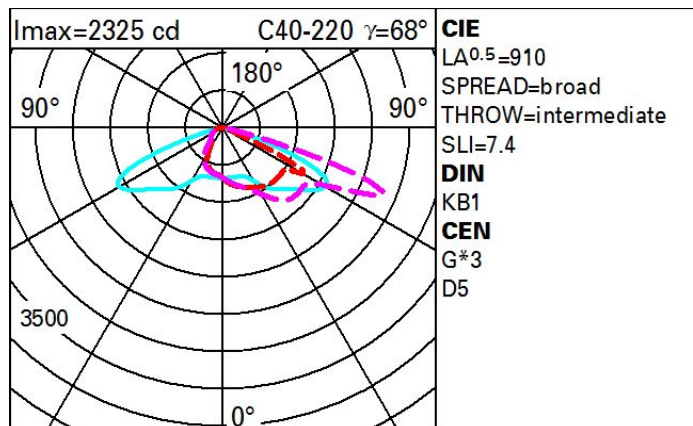
IK08

IP66

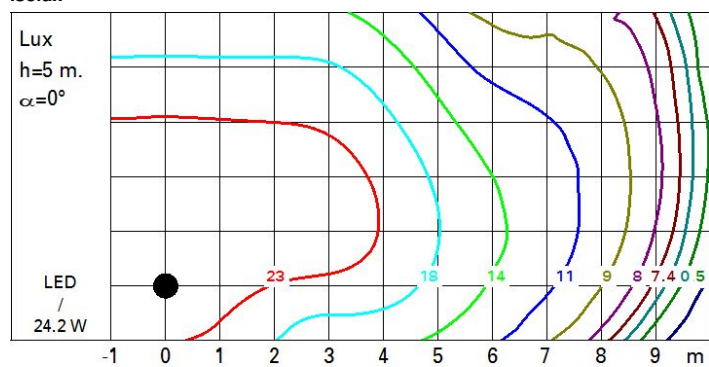
**Technical data**

Im system:	3630
W system:	24.2
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	150
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	4000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

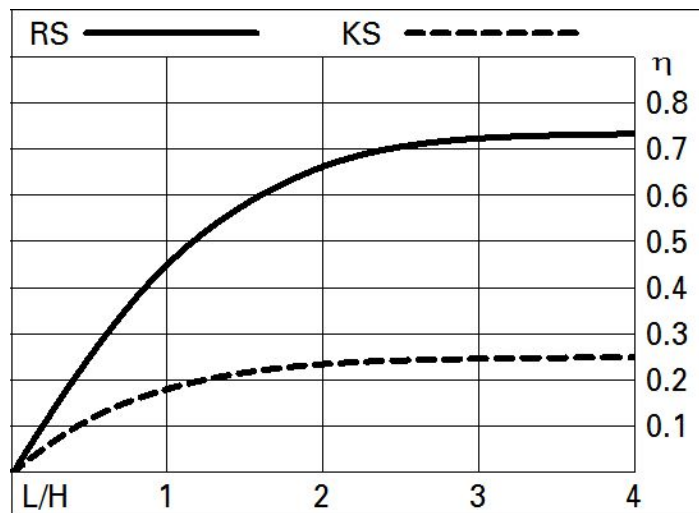
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



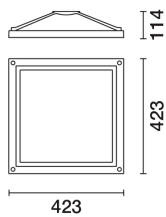
# Utilisation factors



Last information update: January 2025

**Product configuration: UD92**

UD92: Pole-mounted system - ST1.2 optic - Warm White - Ta 50°C

**Product code**

UD92: Pole-mounted system - ST1.2 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



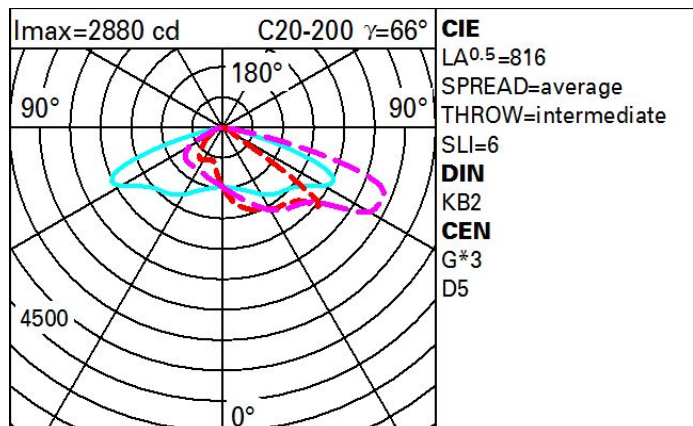
IK08

IP66

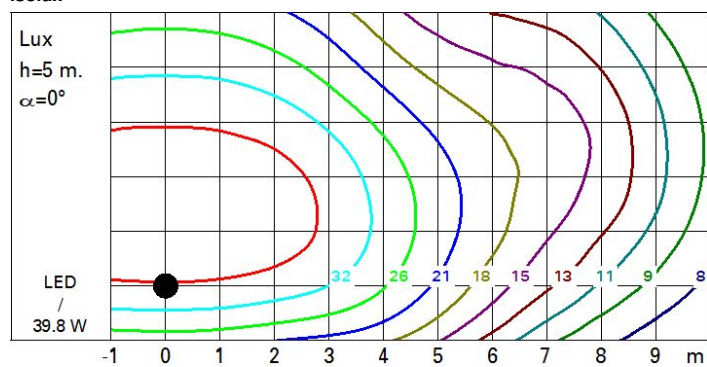
**Technical data**

Im system:	4840
W system:	39.8
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	121.6
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	2200
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

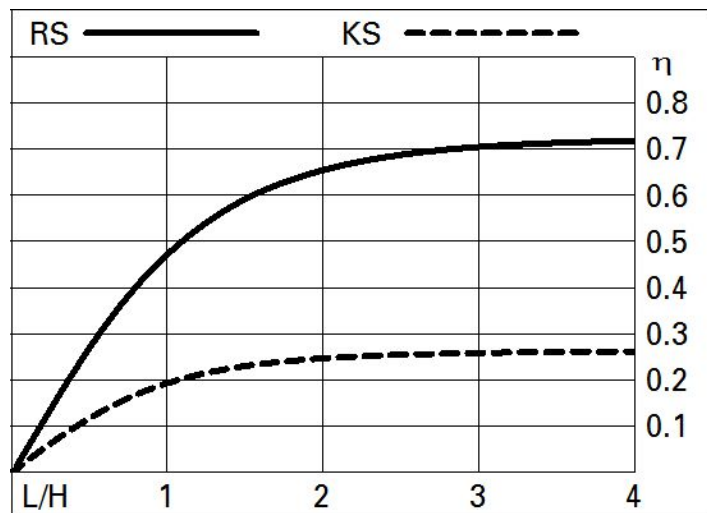
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



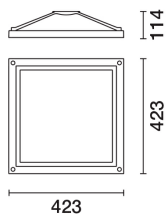
# Utilisation factors



Last information update: January 2025

**Product configuration: UD93**

UD93: Pole-mounted system - ST1.2 optic - Warm White - Ta 50°C

**Product code**

UD93: Pole-mounted system - ST1.2 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



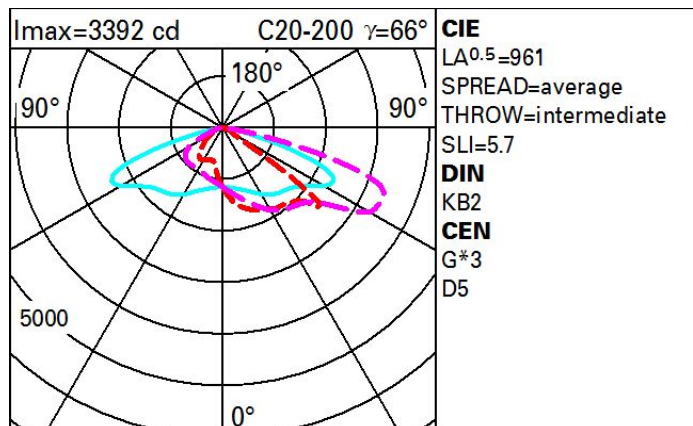
IK08

IP66

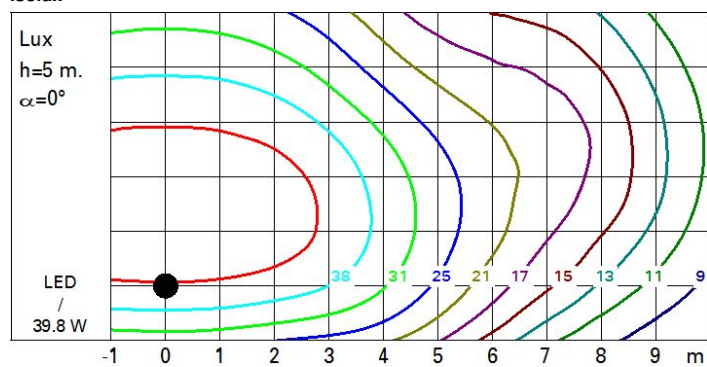
**Technical data**

Im system:	5700
W system:	39.8
Im source:	-
W source:	-
Luminous efficiency (lm/W, real value):	143.2
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	3000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

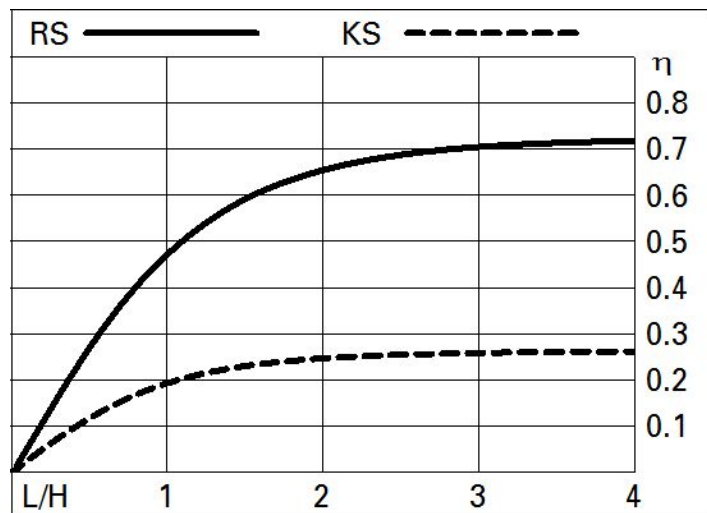
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



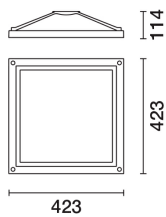
# Utilisation factors



Last information update: January 2025

**Product configuration: UD94**

UD94: Pole-mounted system - ST1.2 optic - Neutral White - Ta 50°C

**Product code**

UD94: Pole-mounted system - ST1.2 optic - Neutral White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



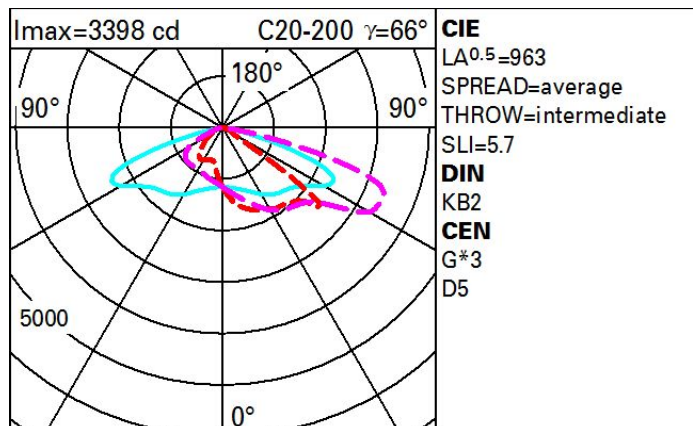
IK08

IP66

**Technical data**

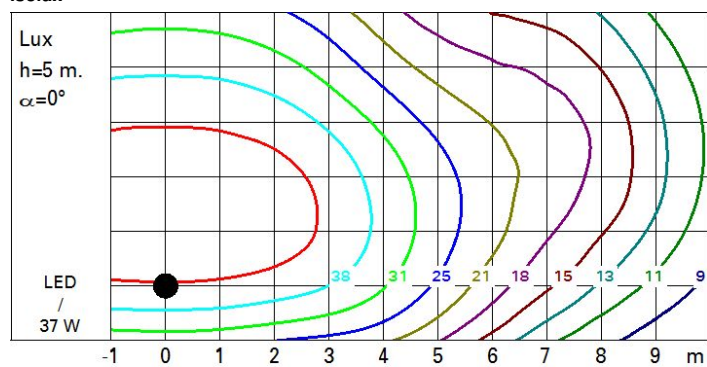
Im system:	5710
W system:	37
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	154.3
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	4000
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

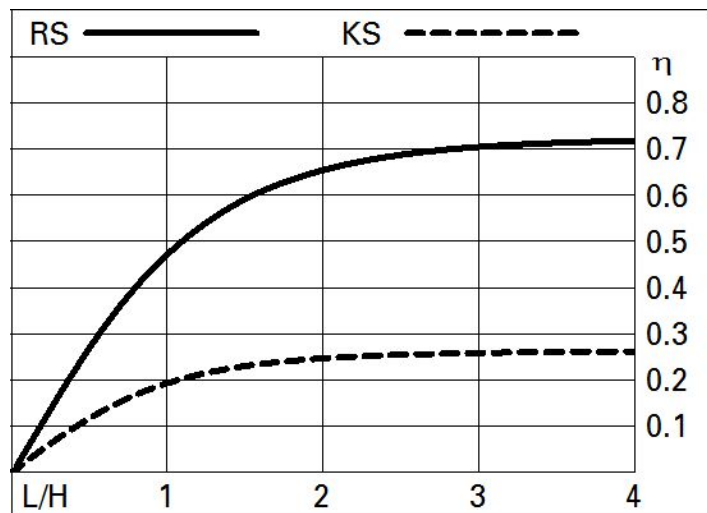
**Polar**



# Isolux



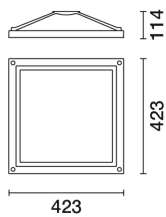
# Utilisation factors



Last information update: January 2025

**Product configuration: UD86**

UD86: Pole-mounted system - ST1 optic - Warm White - Ta 50°C

**Product code**

UD86: Pole-mounted system - ST1 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

**Mounting**

pole arm|pole-top side entry|pole-top

Complies with EN60598-1 and pertinent regulations



IK08



IP66



CE



UKCA



E 03

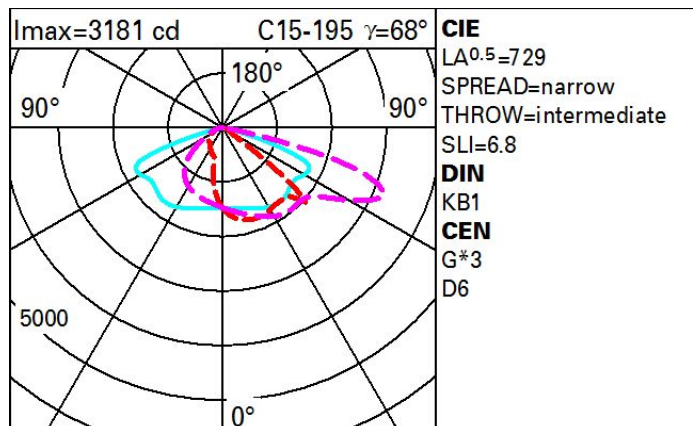


QCERT

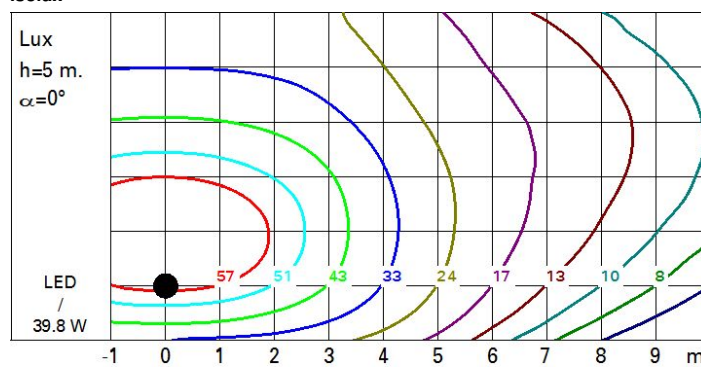
**Technical data**

Im system:	4840
W system:	39.8
Im source:	-
W source:	-
Luminous efficiency (Im/W, real value):	121.6
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
CRI (minimum):	70
Colour temperature [K]:	2200
MacAdam Step:	3
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

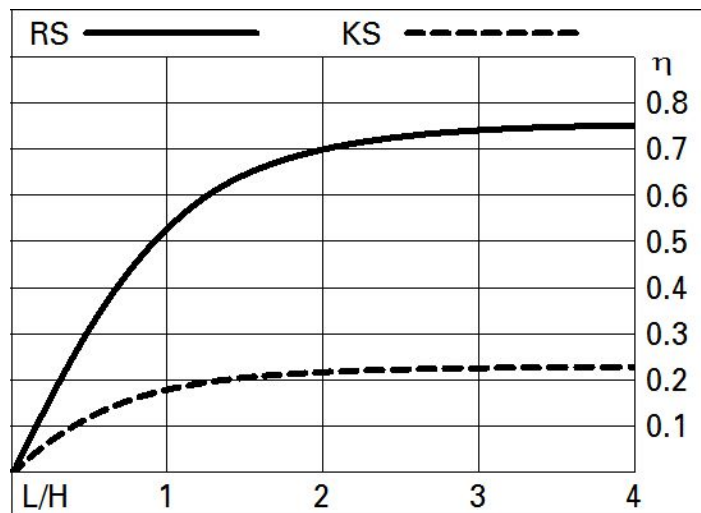
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -40°C to 50°C.
Power factor:	See installation instructions
Inrush current:	32 A / - µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Minimum dimming %:	5
Overvoltage protection:	10kV Common mode & 6kV Differential mode
Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



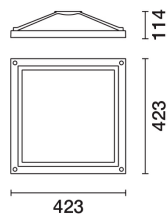
# Utilisation factors



Last information update: January 2025

**Product configuration: UD87**

UD87: Pole-mounted system - ST1 optic - Warm White - Ta 50°C

**Product code**

UD87: Pole-mounted system - ST1 optic - Warm White - Ta 50°C

**Technical description**

Outdoor luminaire with a direct light street optic with a maximum ambient temperature of 50°C. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base metal, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. A sodium - calcium closing glass with silicone seal for the frame closes the LED assembly, which is fixed to the component-holder box by 4 screws. The optical assembly is fixed to the arm by 4 securing screws with an anti-loosening device. A 60 Shore silicone gasket located between the two parts guarantees a high IP66 level. Complete with circuit fitted with Warm White monochrome LEDs. Replaceable LED unit. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). Power supply, connected using quick-couplings and removed using clips. DALI electronic power supply. Wiring and optical compartment can be opened with everyday tools. All external screws are made of stainless steel.

**Installation**

The projector can be installed on ø76/102mm diameters via steel arms. For ø60mm to ø89mm diameters a reducer can be used.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

5.8

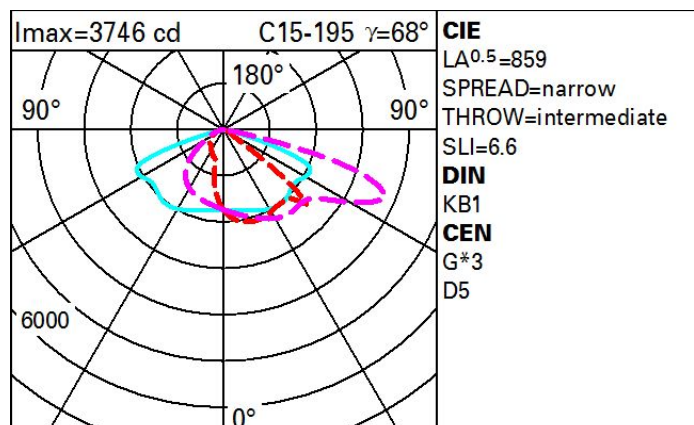
**Mounting**

pole arm|pole-top side entry|pole-top

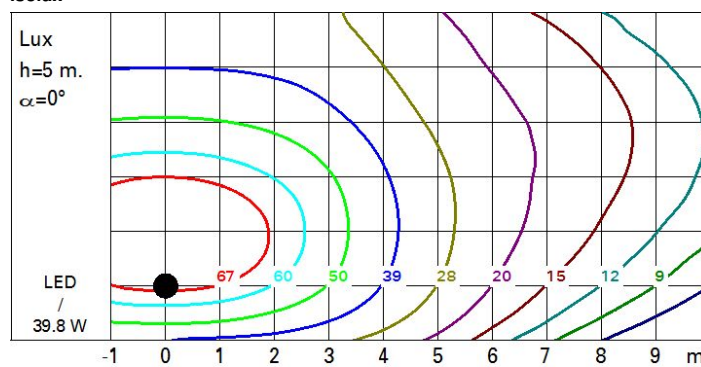
Complies with EN60598-1 and pertinent regulations

**Technical data**

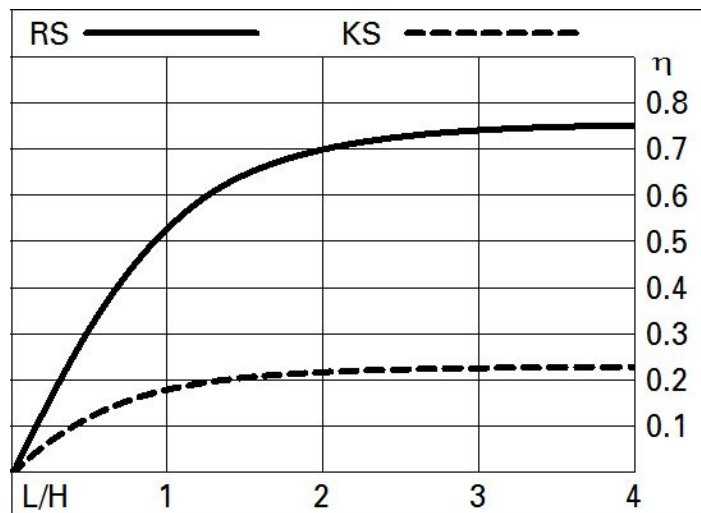
Im system:	5700	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	39.8	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	143.2	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - µs
CRI (minimum):	70	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	3000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)	Control:	Midnight preset/DALI NFC

**Polar**

# Isolux



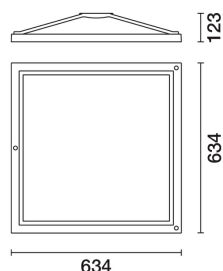
# Utilisation factors



Last information update: January 2025

**Product configuration: BL19**

BL19: U.F.O. - Pole-mounted system - Large body optical assembly - Neutral White - SC optic

**Product code**

BL19: U.F.O. - Pole-mounted system - Large body optical assembly - Neutral White - SC optic

**Technical description**

Outdoor luminaire with roto-symmetrical optic (SC) and direct light giving high level visual comfort (G5), designed to use LED lamps. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. Opal polycarbonate closing glass with silicone seal for the frame closes the LED assembly, fixed to the component-holder box by a hinge and 3 screws. The high IP66 rating is guaranteed by the 60 Shore silicone seal interposed between the two elements. Complete with circuit having Neutral White (4000K) monochrome LEDs. Replaceable LED unit. Control gear, connected using quick-couplings, can be removed using clips. Driver with automatic inner temperature control system. Driver with 4 operating profiles, fixed profile at 100% and three different profiles with midnight point recognition and dimming period duration of 6h/8h/10h. Profiles can be selected using microswitches (operating cycles can be customised using dedicated software). Selv 220-240V ac 50/60Hz electronic ballast. Replaceable control gear unit. The optical assembly is fixed to the arm by 4 fixing screws with anti-loosening device. The light flow emitted in the upper hemisphere of the System in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). All external screws used are made of stainless steel.

**Installation**

The floodlight can be installed using steel arms for diameters  $\varnothing 76/102$ mm. For diameters  $\varnothing 60$ mm to  $\varnothing 89$ mm use the adapter.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

13.87

**Mounting**

pole arm/pole-top side entry/pole-top

**Wiring**

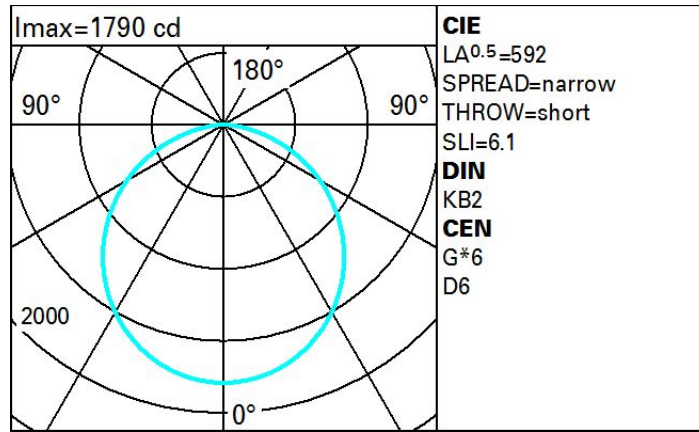
The product is powered by cables from a pre-wiring box with terminal block and 4A T fuse. Resistance to mains voltage peaks up to 10KV (with varistor). Product perfect watertightness at the power cable entry point is guaranteed by the nickel-plated brass M24 cable clamp (suitable for cables with  $\varnothing 7$ mm- $\varnothing 16$ mm).

Complies with EN60598-1 and pertinent regulations

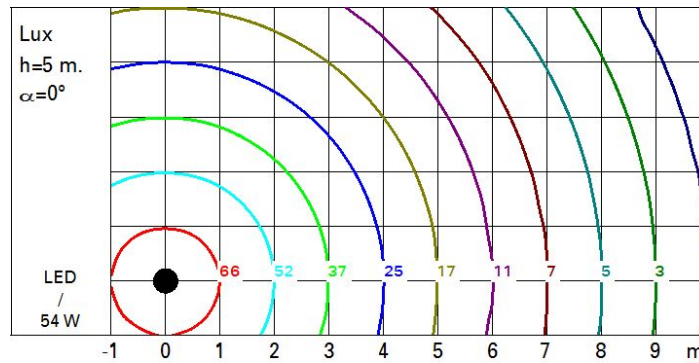
**Technical data**

Im system:	5030	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W system:	54	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	93.1	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - $\mu$ s
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	4000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)	Control:	Midnight preset/DALI NFC

# Polar



# Isolux

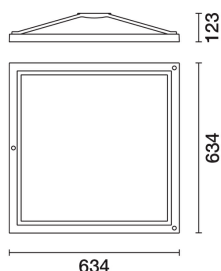




Last information update: January 2025

**Product configuration: BL18**

BL18: U.F.O. - Pole-mounted system - Large body optical assembly - Warm White - SC optic

**Product code**

BL18: U.F.O. - Pole-mounted system - Large body optical assembly - Warm White - SC optic

**Technical description**

Outdoor luminaire with roto-symmetrical optic (SC) and direct light giving high level visual comfort (G5), designed to use LED lamps. Optical assembly made of die-cast aluminium, with dual phosphorous - chromium plating of the base, passivation at 120°C, RAL 9007 grey liquid paint, curing at 150°C. Opal polycarbonate closing glass with silicone seal for the frame closes the LED assembly, fixed to the component-holder box by 3 screws. The high IP66 rating is guaranteed by the 60 Shore silicone seal interposed between the two elements. Complete with circuit having Warm White (3000K) monochrome LEDs. Replaceable LED unit. Control gear, connected using quick-couplings, can be removed using clips. Driver with automatic inner temperature control system. Driver with 4 operating profiles, fixed profile at 100% and three different profiles with midnight point recognition and dimming period duration of 6h/8h/10h. Profiles can be selected using microswitches (operating cycles can be customised using dedicated software). Selv 220-240V ac 50/60Hz electronic ballast. Replaceable control gear unit. The optical assembly is fixed to the arm by 4 fixing screws with anti-loosening device. The light flow emitted in the upper hemisphere of the System in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). All external screws used are made of stainless steel.

**Installation**

The floodlight can be installed using steel arms for diameters  $\varnothing 76/102\text{mm}$ . For diameters  $\varnothing 60\text{mm}$  to  $\varnothing 89\text{mm}$  use the adapter.

**Colour**

White / white (11) | Grey/White (B5) | Black/white (F2) | Rust  
Brown / White (G3)

**Weight (Kg)**

13.87

**Mounting**

pole arm|pole-top side entry|pole-top

**Wiring**

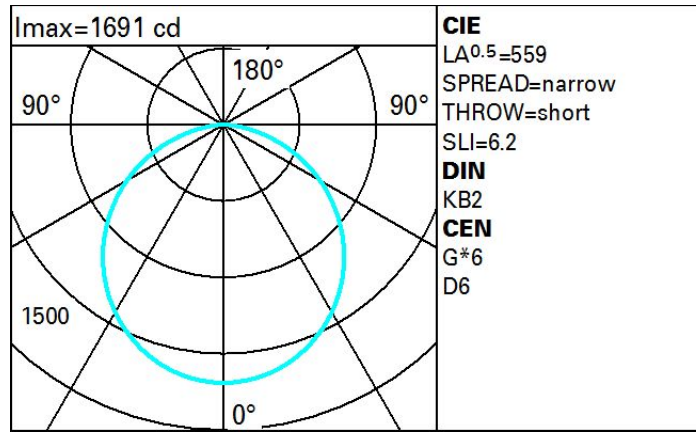
The product is powered by cables from a pre-wiring box with terminal block and 4A T fuse. Resistance to mains voltage peaks up to 10KV (with varistor). Product perfect watertightness at the power cable entry point is guaranteed by the nickel-plated brass M24 cable clamp (suitable for cables with  $\varnothing 7\text{mm}$ - $\varnothing 16\text{mm}$ ).

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	4750	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
W system:	54	Lamp code:	LED
Im source:	-	Number of lamps for optical assembly:	1
W source:	-	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	88	Number of optical assemblies:	1
Im in emergency mode:	-	Intervalllo temperatura ambiente:	from -40°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	100	Inrush current:	32 A / - $\mu\text{s}$
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	3000	Minimum dimming %:	5
MacAdam Step:	3	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)	Control:	Midnight preset/DALI NFC

# Polar



# Isolux

