

XOOLINE™ White High Efficiency HD IP67

Area: **Outdoor Luminaires**

Category: **Rigid light lines**

Mounting: **Surface-mounted, horizontal / Surface-mounted, vertical / Adjustable, vertical / Wall-mounted**



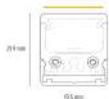
Modular luminaire with 8 different optics available and side cabling and a large panel of mounting options.

- Translucent end caps and special cable exit solutions make it easy to create infinite lines of light.
- Housing and mounting profile are also available in black for directly visible applications.
- Minimalistic form factor and several cable exit and connector options enable seamless integration.

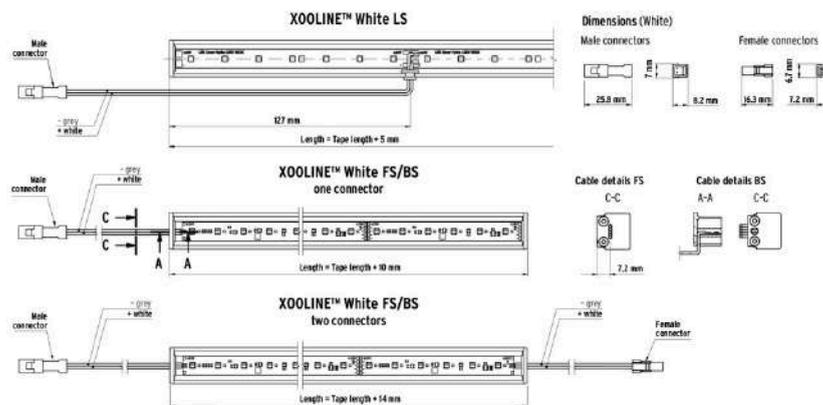
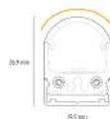
Detailed specification text in download section.

DIMENSIONS & AVAILABLE LENGTHS

Low cover



Round cover



Cable length on connectors for variants FS and BS is 190 mm. LS is 129 mm.
 For Cable / Connector configuration options 00 and 01 the existing connectors are replaced with open-ended cables of 2 m length.

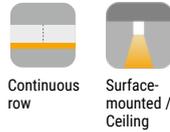
Fixture built to length (not field cuttable): $L = (N \times 62.5 \text{ mm}) + \text{ends}$ (ends vary from 5 mm to 14 mm depending on chosen cable feed and connector configuration); $N = 5 \dots$ (as follows); $L_{\min} = 318 \text{ mm}$; $N_{\max} = 48$; $L_{\max} = 3,014 \text{ mm}$

TECHNICAL SPECIFICATIONS

Certifications



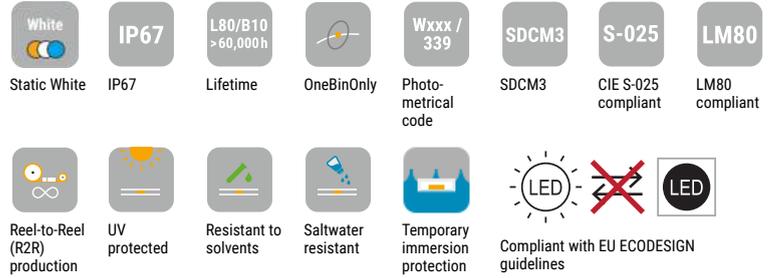
Family Key Features



Awards



Technical Data/Performance



ELECTRICAL & OUTPUT DATA

Voltage	24 Volt (23 V _{min} , 25 V _{max})
Case Temperature (T _{Cmin} & T _{Cmax})	T _{Cmin} = -25°C, T _{Cmax} = specific, see Table below
Storage Temperature (T _{Smin} & T _{Smax})	T _{Smin} = -30°C, T _{Smax} = 85°C
Ambient Temperature (T _{Amin} & T _{Amax})	T _{Amin} = -25°C, T _{Amax} = specific, see Table below

Power (W/m)A	6	10	15	25
Power (W/m)A	6	10	15	25
max. efficacy (lm/W)A	75	75	87	77
max. length (m)	3.02	3.02	3.02	3.02
max. serial run length (m)	5.0	5.0	4.0	3.0
CRI / R9 (up to)	96 / 81	96 / 81	86 / 36	86 / 36
Temperature Tc-point (T _{Cmax})B	70°C	70°C	70°C	75°C
max. ambient temp. (T _{Amax})	40°C	40°C	40°C	35°C

Color code / Color temperatureC	low output				high output
	Luminaire lumens/meter* (lm/m)A				
W820	280				
W820	2,500 K	280	495	840	1275
W822	2,900 K	320	535	920	1380
W825	3,300 K	330	610	985	1580
W827 W927	3,800 K 3,600 K	325	545	1195	1675
W830 W930	4,400 K 4,300 K	330	550	1220	1780
W835 W935	5,400 K 5,200 K	340	570	1255	1870
W840 W940	6,800 K 6,800 K	350	585	1275	1910
W850	9,600 K	450	750	1305	1930

* Low square cover, clear in silver colored profile

! To configure the specific luminaire please use the online configurator.

Please note: The orange values are CRI 90 specifications.

^AThe given data are typical values. Due to tolerances of the production process and the electrical components, photometric values and electrical power can vary up to 10%

^BThe Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

^CIn case of IP67 products, tolerances in the color temperature can occur.

! **Note:** -40% luminous flux at opal and -25% with diffuse cover.

AVAILABLE OPTICS

Low cover

Low cover

Low cover

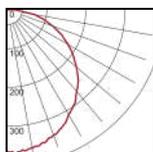
Round cover

Round cover

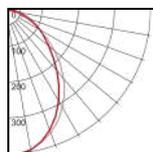
Round cover

High square cover

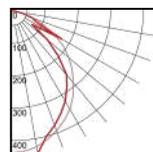
High square cover



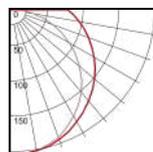
opal



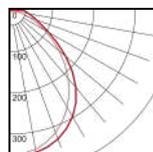
diffuse



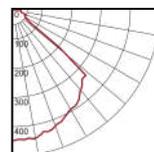
clear



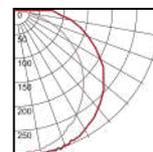
opal



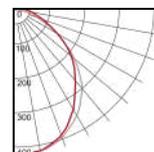
diffuse



clear



opal



diffuse

ORDER CODE

TYPICAL APPLICATIONS

Example:

XOOLINE HYD HD6 W820 S OR LS DC MP IP67

CONFIGURE NOW!

Options for the order code:

Your selections ■ :

LED tape

- HD6 (6 W/m) —> ■ HD6
- HD10 (10 W/m) —> ■ HD10
- HD15 (15 W/m) —> ■ HD15
- HD25 (25 W/m) —> ■ HD25

Color temperature

- 2,000 K —> ■ W820
- 2,200 K —> ■ W822
- 2,500 K —> ■ W825
- 2,700 K / 3,600 K —> ■ W827
- 3,000 K / 4,300 K —> ■ W830
- 3,500 K / 4,900 K —> ■ W835
- 4,000 K / 6,600 K —> ■ W840
- 5,000 K —> ■ W850

Please note: The orange values are CRI 90 specifications.

Housing color

- Silver —> ■ S
- Black —> ■ B

Optics

- Round cover, opal —> ■ OR
- Round cover, diffuse —> ■ DR
- Round cover, clear —> ■ CR
- Low square cover, opal —> ■ OL
- Low square cover, diffuse —> ■ DL
- Low square cover, clear —> ■ CL
- High square cover, opal —> ■ OH
- High square cover, diffuse —> ■ DH

Cable Feed

- Long side (through one flank of fixture) —> ■ LS
- Front side (through end caps) —> ■ FS
- Back side (through profile) —> ■ BS

Cable / Connector configuration

- Daisy chain (male / female) —> ■ DC
- Male one side —> ■ MO
- Open end one side —> ■ OO

Profiles / Clips

- Mounting profile —> ■ MP
- Clip 0° —> ■ C00
- Clip 15° —> ■ C15
- Clip 30° —> ■ C30
- Clip 45° —> ■ C45
- Plastic clip —> ■ PCL
- Adjustable mounting clip —> ■ AMC
- Wall mount profile —> ■ WMP



**Options for the order
code:**

Your selections ■ :

Length

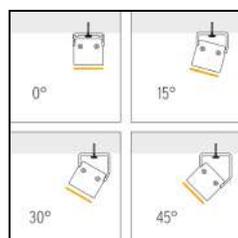
L_{min}: 327 mm → ■ 0327

L_{max}: 3,014 mm → ■ 3014

Fixture built to length (not field cuttable): $L = (N \times 62.5 \text{ mm}) + \text{ends}$ (ends vary from 5 mm to 14 mm depending on chosen cable feed and connector configuration); N = 5... (as follows); L_{min} = 318 mm; N_{max} = 48; L_{max} = 3,014 mm

MOUNTING

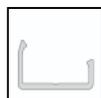
1. Surface-mounted, horizontal



Full length mounting channel



0° aluminum mounting clip in 90 mm length



15° aluminum mounting clip in 90 mm length



30° aluminum mounting clip in 90 mm length



45° aluminum mounting clip in 90 mm length

Description

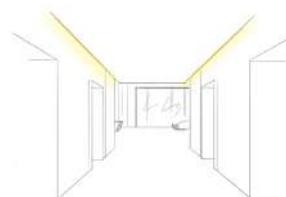
Aluminum surface mounting bracket, recommended to use every 50 cm.

Aluminum surface mounting bracket, recommended to use every 50 cm.

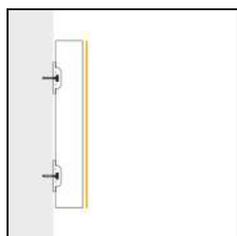
Aluminum surface mounting bracket, recommended to use every 50 cm.

Aluminum surface mounting bracket, recommended to use every 50 cm.

Example of application



2. Surface-mounted, vertical



Mounting accessories

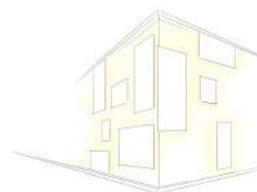


Plastic Mounting Clip

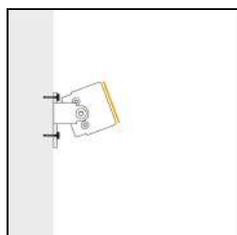
Description

White plastic surface mounting clip. Recommended to use every 50 cm. Cannot be used together with the aluminum mounting profile.

Example of application



3. Adjustable, vertical



Mounting accessories



Adjustable Bracket

Description

Use to adjust and fix the angle of fixture. 180 degrees adjusting range. Delivered with axis screw.

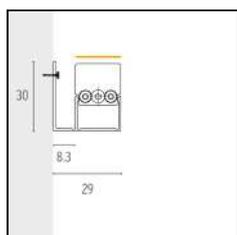
Mounting option AMC is not available for Tunable White Luminaires in combination with an 'LD' light engine.

Cable feed options BS and FS can't be combined with mounting option AMC.

Example of application



4. Wall-mounted



Mounting accessories

No additional accessories are required for this mounting option

Description

Full length mounting channel, sets light axis parallel to wall. Connectors fit into gap between luminaire and wall. Digits in order code: WMP

POWER SUPPLY UNIT (PSU) & CONTROLS

Recommended PSU

VarioPSU 24V/100W IP67, ON/OFF, Silver
 Art.-#: 16000064



Dimensions (L x H x W): **220 mm x 38.8 mm x 68 mm**
 Electrical Class: **SK I**
 LED Drive: **CV**
 Voltage (V): **24 V**
 Rated Power (W): **100**
 Input Voltage (Vac): **90 – 305**
 Region: **WR**
 Certificates: **ENEC, UL**
 Schutzart: **IP67**
 Indoor/Outdoor: **Outdoor**

Recommended PSU

VarioPSU 24V/90W IP67, 0-10V, Black
 Art.-#: 16000154



Dimensions (L x H x W): **171 mm x 37.5 mm x 63 mm**
 Electrical Class: **SK II**
 LED Drive: **CV**
 Voltage (V): **24 V**
 Rated Power (W): **90 W**
 Input Voltage (Vac): **90 – 305**
 Region: **WR**
 Certificates: **ENEC, UL**
 Schutzart: **IP67**
 Indoor/Outdoor: **Outdoor**

Recommended PSU

VarioPSU 24V/90W IP67, DALI, Black
 Art.-#: 16000348



Dimensions (L x H x W): **171 mm x 63 mm x 37.5 mm**
 Electrical Class: **SK II**
 LED Drive: **CV**
 Voltage (V): **24 V**
 Rated Power (W): **90**
 Input Voltage (Vac): **90 – 305**
 Region: **WR**
 Certificates: **ENEC, UL**
 Schutzart: **IP67**
 Indoor/Outdoor: **Outdoor**

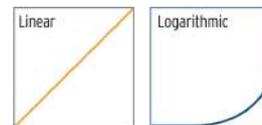
Recommended Control

IN.finite™ DALI@ DT6 2CH CV ULT
 Art.-#: 16000268-DT6-ULT



Dimensions (L x H x W): **188 mm x 21 mm x 30 mm**
 Channels: **2**
 Dimming Options: **DALI**
 Dimming: **PWM (f ~ 200 Hz)**
 Dimming Curve: **Logarithmic**
 Dimming Range: **100% – 0%**
 Voltage (V): **12 – 50 V**
 Certificates: **CE**
 Schutzart: **IP20**
 Indoor/Outdoor: **Indoor**

Dimming



CABLING ACCESSORIES



VarioCon Female Mini 2 x 0.34 mm² 0.2 m IP67
 Art.-#: **15000141**
 Required quantity: -



VarioCon Female Mini 2 x 0.34 mm² 2 m IP67
 Art.-#: **15000142**
 Required quantity: -



VarioCon Extension Mini 2 x 0.34 mm² 0.1 m IP67
 Art.-#: **15000143**
 Required quantity: -



VarioCon Extension Mini 2 x 0.34 mm² 2 m IP67
 Art.-#: **15000144**
 Required quantity: -



VarioCon Extension Mini 2 x 0.34 mm² 1 m IP67
 Art.-#: **15000368**
 Required quantity: -

VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (PSU / CONTROL TO FIXTURE)

0.34 mm² / AWG 22

XOOLINE™ White High Efficiency HD IP67	HD6	HD10	HD15	HD25
Product run Length	max. cable length between PSU / Control unit and the luminaire			
1 m	32.3 m	19.4 m	12.9 m	7.7 m
2 m	16.1 m	9.7 m	6.4 m	3.8 m
3 m	10.7 m	6.4 m	4.3 m	2.5 m
4 m	8 m	4.8 m	3.2 m	-
5 m	6.4 m	3.8 m	-	-

1.5 mm² / AWG 15

XOOLINE™ White High Efficiency HD IP67	HD6	HD10	HD15	HD25
Product run Length	max. cable length between PSU / Control unit and the luminaire			
1 m	142.8 m	85.6 m	57.1 m	34.2 m
2 m	71.4 m	42.8 m	28.5 m	17.1 m
3 m	47.6 m	28.5 m	19 m	11.4 m
4 m	35.7 m	21.4 m	14.2 m	-
5 m	28.5 m	17.1 m	-	-

Calculation refers to the cable configuration on site.

The information listed in the table is only refers to the conductor-based voltage drop of max. 0.85V at 24V DC input voltage.

Regarding the electromagnetic compatibility (EMC) the maximum cable length is defined by the power supply manufacturer.

A cable length between power supply and planned product longer than indicated by the datasheet of the power supply is possible. However the electromagnetic compatibility can then be influenced by the conditions of the installation site. There is no data on electromagnetic compatibility for longer cable lengths, which might lead to the necessity of an evaluation of the electromagnetic compatibility by a third party.

Datasheets and mounting instructions of the components in combination with the planned product must be carefully read and followed.