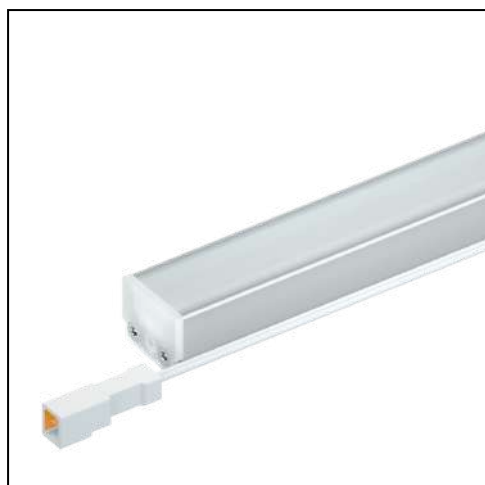


XOOLINE™ White High Efficiency HD IP67

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.

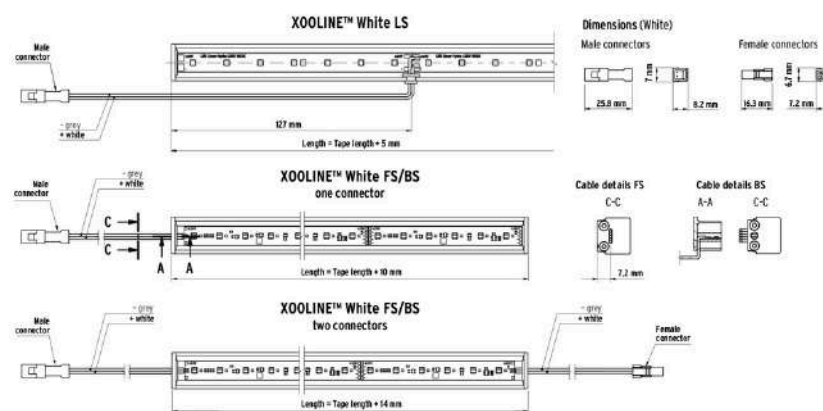
Detailed specification text in download section.

DIMENSIONS & AVAILABLE LENGTHS

Low cover



Round cover



Cable length on connectors for variants FS and BS is 190 mm. LS is 120 mm.
 For Cable / Connector configuration options 00 and 01 the existing connectors are replaced with open-ended cables of 2 m length.

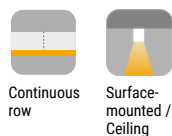
Fixture built to length (not field cuttable): $L = (N \times 62.5 \text{ mm}) + \text{ends}$ (ends vary from 5 mm to 14 mm depending on chosen cable feed and connector configuration); $N = 5 \dots$ (as follows); $L_{\min} = 318 \text{ mm}$; $N_{\max} = 48$; $L_{\max} = 3,014 \text{ mm}$

TECHNICAL SPECIFICATIONS

Certifications



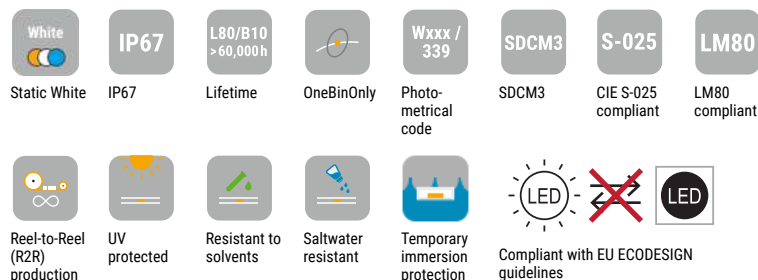
Family Key Features



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	325	545	1195			1675	
	3,600 K							
W830 W930	4,400 K	330	550	1220			1780	
	4,300 K							
W835 W935	5,400 K	340	570	1255			1870	
	5,200 K							
W840 W940	6,800 K	350	585	1275			1910	
	6,800 K							
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

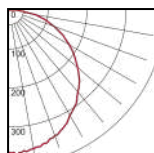
Round cover

Round cover

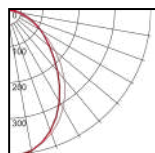
Round cover

**High square
cover**

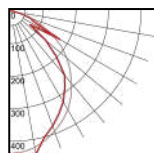
**High square
cover**



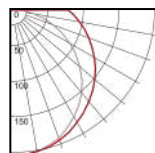
opal



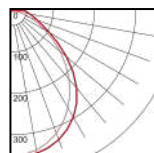
diffuse



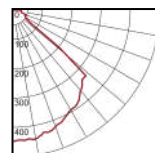
clear



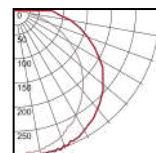
opal



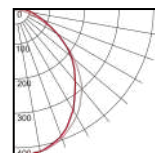
diffuse



clear



opal



diffuse

ORDER CODE

Example:

XOOLINE HYD **HD6 W820** **S** OR **LSDCMP** IP67

CONFIGURE NOW!

Options for the order code:

Your selections ☐ :

LED tape

- | | | |
|---------------|---|-------------------------------|
| HD6 (6 W/m) | → | <input type="checkbox"/> HD6 |
| HD10 (10 W/m) | → | <input type="checkbox"/> HD10 |
| HD15 (15 W/m) | → | <input type="checkbox"/> HD15 |
| HD25 (25 W/m) | → | <input type="checkbox"/> HD25 |

Color temperature

- | | | |
|-------------------|---|-------------------------------|
| 2,000 K | → | <input type="checkbox"/> W820 |
| 2,200 K | → | <input type="checkbox"/> W822 |
| 2,500 K | → | <input type="checkbox"/> W825 |
| 2,700 K / 3,600 K | → | <input type="checkbox"/> W827 |
| 3,000 K / 4,300 K | → | <input type="checkbox"/> W830 |
| 3,500 K / 4,900 K | → | <input type="checkbox"/> W835 |
| 4,000 K / 6,600 K | → | <input type="checkbox"/> W840 |
| 5,000 K | → | <input type="checkbox"/> W850 |

Please note: The orange values are CRI 90 specifications.

Housing color

- | | | |
|--------|---|----------------------------|
| Silver | → | <input type="checkbox"/> S |
| Black | → | <input type="checkbox"/> B |

Optics

- | | | |
|----------------------------|---|-----------------------------|
| Round cover, opal | → | <input type="checkbox"/> OR |
| Round cover, diffuse | → | <input type="checkbox"/> DR |
| Round cover, clear | → | <input type="checkbox"/> CR |
| Low square cover, opal | → | <input type="checkbox"/> OL |
| Low square cover, diffuse | → | <input type="checkbox"/> DL |
| Low square cover, clear | → | <input type="checkbox"/> CL |
| High square cover, opal | → | <input type="checkbox"/> OH |
| High square cover, diffuse | → | <input type="checkbox"/> DH |

Cable Feed

- | | | |
|--|---|-----------------------------|
| Long side (through one flank of fixture) | → | <input type="checkbox"/> LS |
| Front side (through end caps) | → | <input type="checkbox"/> FS |
| Back side (through profile) | → | <input type="checkbox"/> BS |

Cable / Connector configuration

- | | | |
|-----------------------------|---|-----------------------------|
| Daisy chain (male / female) | → | <input type="checkbox"/> DC |
| Male one side | → | <input type="checkbox"/> MO |
| Open end one side | → | <input type="checkbox"/> OO |

Profiles / Clips

- | | | |
|--------------------------|---|------------------------------|
| Mounting profile | → | <input type="checkbox"/> MP |
| Clip 0° | → | <input type="checkbox"/> C00 |
| Clip 15° | → | <input type="checkbox"/> C15 |
| Clip 30° | → | <input type="checkbox"/> C30 |
| Clip 45° | → | <input type="checkbox"/> C45 |
| Plastic clip | → | <input type="checkbox"/> PCL |
| Adjustable mounting clip | → | <input type="checkbox"/> AMC |
| Wall mount profile | → | <input type="checkbox"/> WMP |

TYPICAL APPLICATIONS



**Options for the order
code:**

Your selections ■ :

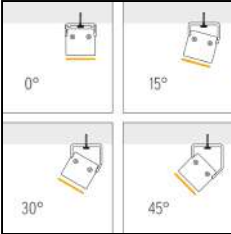






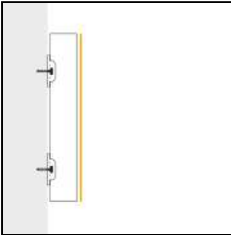

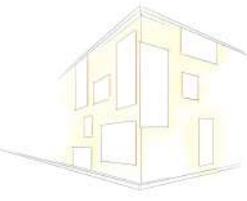
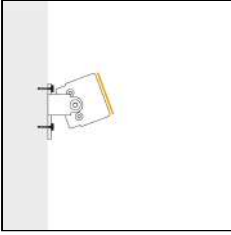


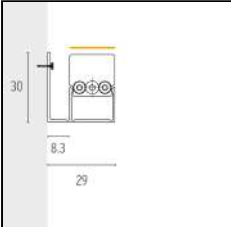
Length

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); $N = 5 \dots$ (as follows); $L_{\min} = 318 \text{ mm}$; $N_{\max} = 48$; $L_{\max} = 3,014 \text{ mm}$

MOUNTING

1. Surface-mounted, horizontal	Mounting accessories	Description	Example of application
	 Full length mounting channel		
	 0° aluminum mounting clip in 90 mm length	Aluminum surface mounting bracket, recommended to use every 50 cm.	
	 15° aluminum mounting clip in 90 mm length	Aluminum surface mounting bracket, recommended to use every 50 cm.	
	 30° aluminum mounting clip in 90 mm length	Aluminum surface mounting bracket, recommended to use every 50 cm.	
	 45° aluminum mounting clip in 90 mm length	Aluminum surface mounting bracket, recommended to use every 50 cm.	
2. Surface-mounted, vertical	Mounting accessories	Description	Example of application
	 Plastic Mounting Clip	White plastic surface mounting clip. Recommended to use every 50 cm. Cannot be used together with the aluminum mounting profile.	
3. Adjustable, vertical	Mounting accessories	Description	Example of application
	 Adjustable Bracket	<p>Use to adjust and fix the angle of fixture. 180 degrees adjusting range. Delivered with axis screw.</p> <p>Mounting option AMC is not available for Tunable White Luminaires in combination with an 'LD' light engine.</p> <p>Cable feed options BS and FS can't be combined with mounting option AMC.</p>	
4. Wall-mounted	Mounting accessories	Description	
	No additional accessories are required for this mounting option	<p>Full length mounting channel, sets light axis parallel to wall. Connectors fit into gap between luminaire and wall.</p> <p>Digits in order code: WMP</p>	

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 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**

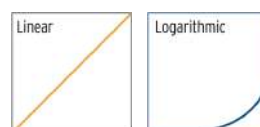
Recommended PSU

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**

Dimming



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**

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.