

# XOOLUM R White High Efficiency LD IP67

Area: **Outdoor Luminaires**

Category: **Rigid light lines**

Mounting: **Pendant / Surface-mounted, fixed / Surface-mounted, adjustable**



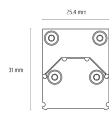
Luminaire with 45° adjustable head with a clear encapsulation and reflectors for general lighting applications.

- Polyurethane is utilized in XOOLUM R to make it more resistant to impact from salt water UV-light and solvents.
- Modular mounting and lighting scenery thanks to its LEDs-Click™ technology enabling a 45° tilt of the luminaire head.
- Appealing form factor of 25.4 mm by 31 mm which blends easily in any architectural concepts.

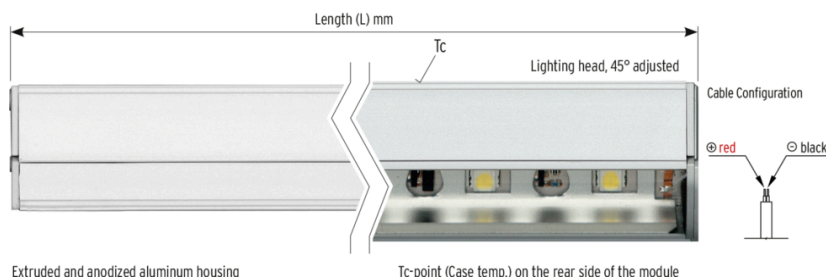
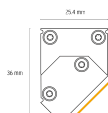
Detailed specification text in download section.

## DIMENSIONS & AVAILABLE LENGTHS

0° tilt (here shown with type A end caps)



45° tilt (here shown with type NA end caps)



Fixture build to length (not field cuttable):  $L = (N \times 125 \text{ mm}) + 10 \text{ mm}$ ;  $N = 1 \dots$  (as follows);  $L_{\min} = 135 \text{ mm}$ , LD5/LD10/LD15:  $N_{\max} = 32$ ;  $L_{\max} = 4,010 \text{ mm}$ ; LD25:  $N_{\max} = 24$ ;  $L_{\max} = 3,010 \text{ mm}$

## TECHNICAL SPECIFICATIONS

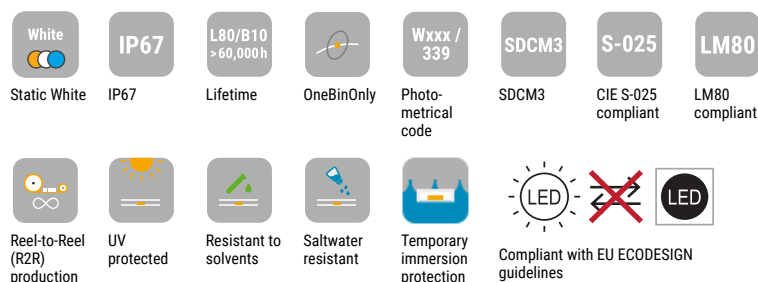
### Certifications



### Family Key Features



### Technical Data/Performance



## ELECTRICAL & OUTPUT DATA

Voltage	24 Volt (23 V <sub>min</sub> , 25 V <sub>max</sub> )
Housing temperature (T <sub>cmin</sub> & T <sub>cmax</sub> )	T <sub>cmin</sub> = -25°C, T <sub>cmax</sub> = specific, see Table below
Storage Temperature (T <sub>smin</sub> & T <sub>smax</sub> )	T <sub>smin</sub> = -30°C, T <sub>smax</sub> = 85°C
Ambient temperature (T <sub>amin</sub> & T <sub>amax</sub> )	T <sub>amin</sub> = -25°C, T <sub>amax</sub> = specific, see Table below

Power (W/m)A	5	10	15	25
Power (W/m)A	5	10	15	25
max. efficacy (lm/W)A	122	129	136	122
max. length (m)	3.02	3.02	3.02	3.02
max. serial run length (m)	7.5	5.0	4.0	3.0
CRI / R9 (up to)	96 / 81	85 / 31	86 / 33	85 / 31
Temperature Tc-point (T <sub>cmax</sub> )B	60°C	60°C	60°C	65°C
max. ambient temp. (T <sub>amax</sub> )	40°C	40°C	30°C	30°C

low output		high output			
Color code / Color temperatureC		Luminaire lumens/meter* (lm/m)A			
W820	400				
W820	2,600 K	400	835	1275	1930
W822	3,000 K	435	875	1395	2070
W825	3,500 K	495	950	1455	2270
W827 W927	4,000 K 3,800 K	465	1130	1690	2585
W830 W930	4,600 K 4,400 K	485	1150	1795	2755
W835 W935	5,400 K 5,200 K	505	1180	1815	2820
W840 W940	6,800 K 6,800 K	530	1330	1950	2995
W850	9,600 K	610	1285	2045	3060

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

Please note: The orange values are CRI 90 specifications.

<sup>A</sup>The 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%.

<sup>B</sup>The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

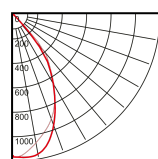
<sup>C</sup>In case of IP67 products, tolerances in the color temperature can occur.

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

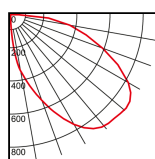
## AVAILABLE OPTICS

0° tilt

45° tilt



deep wide 65°



deep wide 65°

## ORDER CODE

Example:

XOOLUM R HYD **LD5 W820/** **-S-65-NA-BS** IP67

### CONFIGURE NOW!

#### Options for the order code:

Your selections ☐ :

##### LED tape

- LD5 (5 W/m) — ☐ LD5  
 LD10 (10 W/m) — ☐ LD10  
 LD15 (15 W/m) — ☐ LD15  
 LD25 (25 W/m) — ☐ LD25

##### Color temperature

- 2,000 K — ☐ W820  
 2,200 K — ☐ W822  
 2,500 K — ☐ W825  
 2,700 K — ☐ W927 / **W927**  
 3,000 K — ☐ W930 / **W930**  
 3,500 K — ☐ W935 / **W935**  
 4,000 K — ☐ W940 / **W940**  
 5,000 K — ☐ W850

##### Length

- L<sub>min</sub>: 135 mm — ☐ 0135  
 L<sub>max</sub>: 4,010 mm — ☐ 4010

Fixture build to length (not field cuttable): L = (N x 125 mm) + 10 mm; N = 1 ... (as follows); L<sub>min</sub> = 135 mm, LD5/LD10/LD15: N<sub>max</sub> = 32; L<sub>max</sub> = 4,010 mm; LD25: N<sub>max</sub> = 24; L<sub>max</sub> = 3,010 mm

##### Housing color

- Silver — ☐ S  
 Black — ☐ B

##### Optics

- Deep wide 65° — ☐ 65

##### Lighting head

- Non adjustable — ☐ NA  
 Adjustable — ☐ A

##### Cable Feed

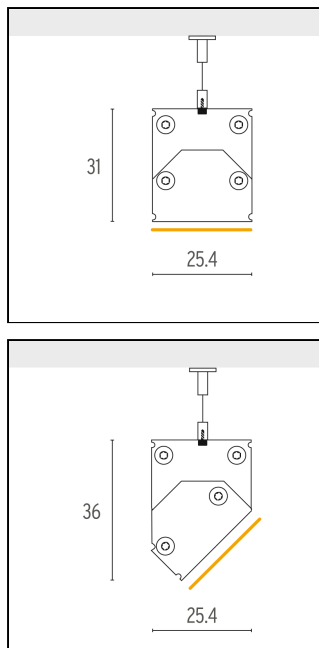
- Back side, 2 m (through mounting channel) — ☐ BS  
 Front side, 2 m (through end caps) — ☐ FS

## TYPICAL APPLICATIONS



## MOUNTING

### 1. Pendant



#### Mounting accessories



**VarioPendant 007 slide silver**  
 Pendant set slideable for VarioContour 007  
 Digits in order code: P



**VarioPendant 007 slide black**  
 Pendantset slideable for VarioContour 007  
 Digits in order code: P



**VarioCANOPY Square Mounting set (optional) for pendant ceiling installations on concrete ceilings**  
 Art.-#: 16000347

#### Description

Pendant set for installations directly on the ceiling. 2 m wire is cuttable on site.

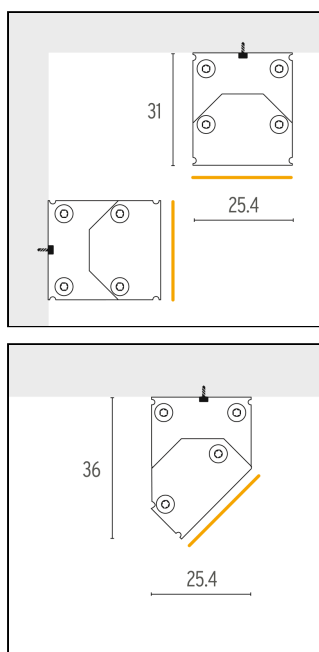
Pendant set for installations directly on the ceiling. 2 m wire is cuttable on site.

Pendant set with screws for installations directly on the ceiling. Recommended to use every 1 m.

#### Example of application



### 2. Surface-mounted, fixed

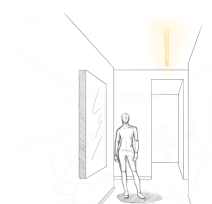


#### Mounting accessories

No additional accessories are required for this mounting option

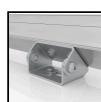
#### Description

#### Example of application



### 3. Surface-mounted, adjustable

#### Mounting accessories

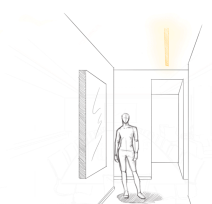


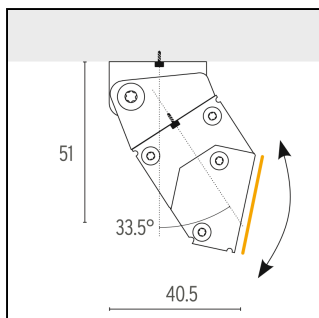
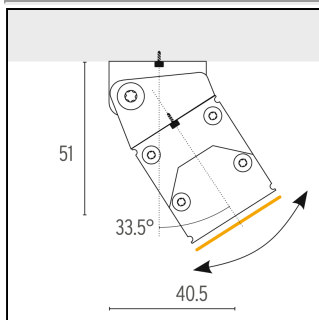
**XOOLUM Swivel-Angle Set +/- 45°**  
 Digits in order code: TMC

#### Description

Adjustable clip for extra 45° tilt.

#### Example of application

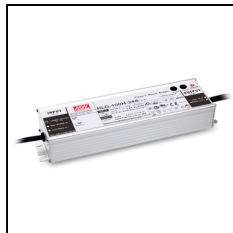




## POWER SUPPLY UNIT (PSU) & CONTROLS

### 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**

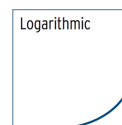
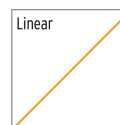
### Recommended PSU

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**

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

### 0.34 mm<sup>2</sup> / AWG 22

XOOLUM R White High Efficiency LD IP67	LD5	LD10	LD15	LD25
Product run Length	max. cable length between PSU / Control unit and the luminaire			
1 m	38.8 m	19.4 m	12.9 m	7.7 m
2 m	19.4 m	9.7 m	6.4 m	3.8 m
3 m	12.9 m	6.4 m	4.3 m	2.5 m
4 m	9.7 m	4.8 m	3.2 m	-
5 m	-	-	-	-
6 m	-	-	-	-
7 m	-	-	-	-

### 1.5 mm<sup>2</sup> / AWG 15

XOOLUM R White High Efficiency LD IP67	LD5	LD10	LD15	LD25
Product run Length	max. cable length between PSU / Control unit and the luminaire			
1 m	171.3 m	85.6 m	57.1 m	34.2 m
2 m	85.6 m	42.8 m	28.5 m	17.1 m
3 m	57.1 m	28.5 m	19 m	11.4 m
4 m	42.8 m	21.4 m	14.2 m	-
5 m	-	-	-	-
6 m	-	-	-	-
7 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.