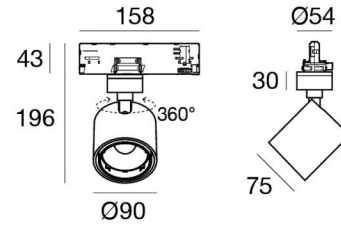


Projectors | 198-264 V  
1 arrayLED 23 W DC - 26 W AC | CRI 98  
**83909W60**



Technical data	
Type	Track
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Wide Flood
Light emission direction	frontal
Nominal power	23 W DC
Total Power	26 W
Source lumens	2610 lm
Nominal input voltage	220 - 240 V AC
Input voltage range	198 - 264 V AC
Frequency	50 - 60 Hz
CCT / Tone	3000 K
Colour rendering index	98 Ra
C.C. / C.V.	AC
Safety class	2
IP	IP20
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	Driver
Dimmable article	Bluetooth
Directional	Swivelling
total angle (vertical plane)	90 °
total angle (horizontal plane)	360 °
Tilting	No
Walk-over	No
Drive-over	No
Cable included	No
Resin potting	No
Type of light emission	Single emission
Net weight	0.687 Kg
Electrostatic discharge protection	Yes
Surge protection	1 KV

Finishing casing	
Material	Die-cast Aluminium EN AB - 46100
Colour	White
Processing	Powder coating

Technology Partner  
**SILVAIR**

Projectors | 198-264 V | 1 arrayLED 23 W DC - 26 W AC | CRI 98 | Base  
**83909W60**

Single emission projectors for indoor application. The warm white LED light source with a wide flood light distribution is composed of 1 arrayed LEDs with CCT of 3000 K and a CRI 98; the source luminous flux is 2610 lm, with a 113.5 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a white finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.687 kg.

The total absorbed power is 26 W.

The device features protection class II and can be ceiling-mounted.

Compliant with the EN 60598-1 standard and its specific provisions.

### Energy efficiency class

This product contains a light source of energy efficiency class F.

### Illuminotechnical Features

Light Output Ratio (LOR)	89 %
Source lumens	2610 lm
Delivered lumens	2335 lm
Consumption	26 W
Luminaire efficacy	89 lm/W
Colour temperature	3000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	98 Ra
Black Body Locus	Below
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

### LED Life / Failure Ratio

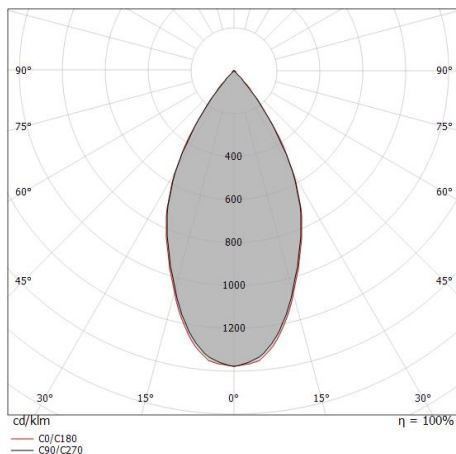
L70 B10 C0 252000h (at Tj 65 Ta 25)

### UGR

UGR axial	21.6
UGR transversal	21.7
X=4H   Y=8H	S=0.25H
Reflection factor	70/50/20

### OPTICAL

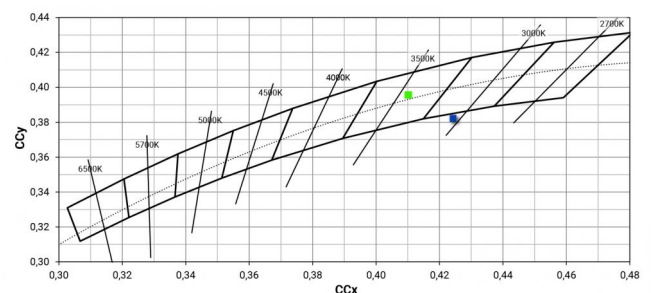
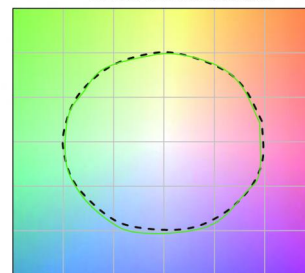
C0/C180 optics	52°
Light distribution simmetry	Symmetrical

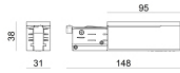


Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	0.49 0.50	E(0°) 12870 E(C90) 4662 E(C0) 4629
1.0	0.98 1.00	E(0°) 3217 E(C90) 1166 E(C0) 1157
1.5	1.48 1.50	E(0°) 1430 E(C90) 518 E(C0) 514
2.0	1.97 1.99	E(0°) 804 E(C90) 291 E(C0) 289
2.5	2.46 2.49	E(0°) 515 E(C90) 186 E(C0) 185
3.0	2.95 2.99	E(0°) 357 E(C90) 130 E(C0) 129

— C0/C180 (Half-peak divergence: 53.0°)  
 — C90/C270 (Half-peak divergence: 52.4°)

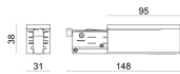
### COLOR VECTOR GRAPHIC





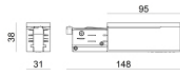
Power supply - White Right power supply header (9001/W)  
Material:PC, colour:white.

**Code**  
81033



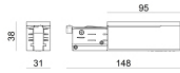
Power supply - White left power supply header (9002/W)  
Material:PC, colour:white.

**Code**  
81036



Power supply - Black left power supply header (9002/B)  
Material:PC, colour:black.

**Code**  
81037



Power supply - Black Right power supply header (9001/B)  
Material:PC, colour:black.

**Code**  
81034



Closing cap - White end cap 9004/W  
Material:PC, colour:white.

**Code**  
80999



Closing cap - Black end cap 9004/B  
Material:PC, colour:black.

**Code**  
81000



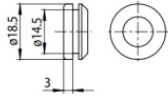
Closing cap - Recessed white end cap 9004-R/W  
Material:PC, colour:white.

**Code**  
81002



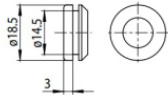
Closing cap - Recessed black end cap 9004-R/B  
Material:PC, colour:black.

**Code**  
81003



Closing cap - White gasket (S-9001/115-W)  
Material:white.

**Code**  
81084



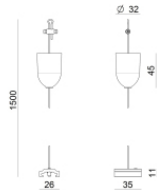
Closing cap - Black gasket (S-9001/115-B)  
Material:black, colour:black.

**Code**  
81085



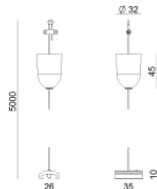
Ceiling rose - 1.5m white pendant luminaires kit + bracket (9000-KIT5-1,5-W)  
Material:plastic, colour:white.

**Code**  
81012



Ceiling rose - 1.5m black pendant luminaires kit + bracket ((9000-KIT5-1,5-B)  
Material:plastic, colour:black.

**Code**  
81014



Ceiling rose - 5m white pendant luminaires kit + bracket (9000-KIT5-5-W)  
Material:plastic, colour:white.

**Code**  
81013



Ceiling rose - 5m black pendant luminaires kit + bracket (9000-KIT5-5-B)  
Material:plastic, colour:black.

**Code**  
81015



Bracket - Anodized fixing bracket (S-9000/131)  
L=35mm, H=14mm, D=24mm.  
Material:Aluminium, colour:translucent.

**Finish**      **Code**  
Anod. Al.      81086



Bracket - Anodized stiffening bracket (S-9000/333)  
L=180mm, H=24mm, D=26mm.  
Material:Aluminium, colour:Anodised Aluminum, processing:Anodisation.

**Finish**      **Code**  
Anod. Al.      81024

		<p>Bracket - White stiffening bracket (S-9000/333-W) L=180mm, H=24mm, D=20mm. Material:Aluminium, colour:white RAL 9010, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81025</td> </tr> </tbody> </table>	Finish	Code	White	81025
Finish	Code						
White	81025						
		<p>Bracket - Black stiffening bracket (S-9000/333-B) L=180mm, H=24mm, D=20mm. Material:Aluminium, colour:black RAL 9005, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>81026</td> </tr> </tbody> </table>	Finish	Code	Black	81026
Finish	Code						
Black	81026						
		<p>Bracket - White fixing bracket (S-9000/131-W) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:white, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81087</td> </tr> </tbody> </table>	Finish	Code	White	81087
Finish	Code						
White	81087						
		<p>Bracket - Black fixing bracket (S-9000/131-B) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:Black, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>81088</td> </tr> </tbody> </table>	Finish	Code	Black	81088
Finish	Code						
Black	81088						
		<p>Junction - White electrical junction - internal (9003/W) Type linear. Material:PC, colour:white.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81039</td> </tr> </tbody> </table>	Finish	Code	White	81039
Finish	Code						
White	81039						
		<p>Junction - Black electrical junction - internal (9003/B) Type linear. Material:PC, colour:black.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>81040</td> </tr> </tbody> </table>	Finish	Code	Black	81040
Finish	Code						
Black	81040						
		<p>Junction - White power supply junction - central (9010/W) Type linear. Material:PC, colour:white.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81042</td> </tr> </tbody> </table>	Finish	Code	White	81042
Finish	Code						
White	81042						
		<p>Junction - White L junction - internal (9011/W) Type linear. Material:PC, colour:white.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>81045</td> </tr> </tbody> </table>	Finish	Code	White	81045
Finish	Code						
White	81045						

		<p>Junction - White L junction - external (9012/W) Type linear. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81048</p>
		<p>Junction - Flexible white junction (9018/W) Type flexible curve. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81066</p>
		<p>Junction - White X junction (9017/W) Type linear. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81063</p>
		<p>Junction - Left white T junction - external (9013/W) Type linear. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81051</p>
		<p>Junction - Right white T junction - external (9014/W) Type linear. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81054</p>
		<p>Junction - Left white T junction - internal (9015/W) Type linear. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81057</p>
		<p>Junction - Right White T junction - internal (9016/W) Type linear. Material:PC, colour:white.</p>	<p><b>Finish</b> White</p>	<p><b>Code</b> 81060</p>
		<p>Junction - Black power supply junction - centrale (9010/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81043</p>

		<p>Junction - Black L junction - internal (9011/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81046</p>
		<p>Junction - Black L junction - external (9012/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81049</p>
		<p>Junction - Flexible black junction (9018/B) Type flexible curve. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81067</p>
		<p>Junction - Black X junction (9017/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81064</p>
		<p>Junction - Black left T junction - external (9013/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81052</p>
		<p>Junction - Right black T junction - external (9014/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81055</p>
		<p>Junction - Left black T junction - internal (9015/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81058</p>
		<p>Junction - Right black T junction - internal (9016/B) Type linear. Material:PC, colour:black.</p>	<p><b>Finish</b> Black</p>	<p><b>Code</b> 81061</p>



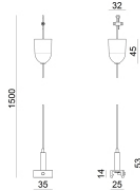
Suspensions - 1.5m white pendant luminaires kit (9000-KIT3-1,5-W)  
Material:plastic, colour:white.

**Code**  
81006



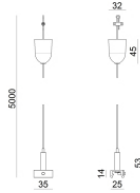
Suspensions - 5m white pendant luminaires kit (9000-KIT3-5-W)  
Material:plastic, colour:white.

**Code**  
81007



Suspensions - 1.5m black pendant luminaires kit (9000-KIT3-1,5-B)  
Material:plastic, colour:black.

**Code**  
81008



Suspensions - 5m black pendant luminaires kit (9000-KIT3-5-B)  
Material:plastic, colour:black.

**Code**  
81009



Suspensions - White rigid suspension clip (S-9000-P2-W)  
Material:plastic, colour:white.

**Code**  
81018



Suspensions - Black rigid suspension clip (S-9000-P2-B)  
Material:plastic, colour:black.

**Code**  
81019



Suspensions - White rigid suspension 1m (S-9000-P3-W)  
Material:plastic, colour:white.

**Code**  
81021



Suspensions - Black rigid suspension 1m (S-9000-P3-B)  
Material:plastic, colour:black.

**Code**  
81022



		<p>Cable cover - White recessed cover (S-9001-R/6-W) Material:PC, colour:white.</p>	<p><b>Code</b> <u>81069</u></p>
		<p>Cable cover - White cover for recessed junction (S-9010-R/6-W) Material:PC, colour:white.</p>	<p><b>Code</b> <u>81072</u></p>
		<p>Cable cover - White cover for recessed L junction (S-9011-R/6-W) Material:PC, colour:white.</p>	<p><b>Code</b> <u>81075</u></p>
		<p>Cable cover - White cover for recessed T junction (S-9013-R/6-W) Material:PC, colour:white.</p>	<p><b>Code</b> <u>81078</u></p>
		<p>Cable cover - White cover for recessed X junction (S-9017-R/6-W) Material:PC, colour:white.</p>	<p><b>Code</b> <u>81081</u></p>
		<p>Cable cover - Black recessed cover (S-9001-R/6-B) Material:PC, colour:black.</p>	<p><b>Code</b> <u>81070</u></p>
		<p>Cable cover - Black cover for recessed junction (S-9010-R/6-B) Material:PC, colour:black.</p>	<p><b>Code</b> <u>81073</u></p>
		<p>Cable cover Material:PC, colour:black.</p>	<p><b>Code</b> <u>81076</u></p>

		<p>Cable cover - Black cover for recessed T junction (S-9013-R/6-B) Material:PC, colour:black.</p>	<p><b>Code</b> <u>81079</u></p>
		<p>Cable cover - Black cover for recessed X junction (S-9017-R/6-B) Material:PC, colour:black.</p>	<p><b>Code</b> <u>81082</u></p>
		<p>Cable cover Material:white.</p>	<p><b>Code</b> <u>83249</u></p>
		<p>Cable cover Material:black, colour:black.</p>	<p><b>Code</b> <u>83250</u></p>
		<p>White three-phase/DALI adapter (9009/W)</p>	<p><b>Code</b> <u>81094</u></p>
		<p>White three-phase adapter (9009-4/W)</p>	<p><b>Code</b> <u>81091</u></p>
		<p>Black three-phase/DALI adapter (9009/B)</p>	<p><b>Code</b> <u>81095</u></p>
		<p>Black three-phase adapter (9009-4/B)</p>	<p><b>Code</b> <u>81093</u></p>

	Tool - Cutter S-9000/T	<b>Code</b>	
		81005	
		Track - Three-phase Recessed White DALI Track, 1 m (9000-1/W-R) Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	<b>Finish</b> White <b>Code</b> 80990
		Track - Three-phase Recessed White DALI Track, 2 m (9000-2/W-R) Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	<b>Finish</b> White <b>Code</b> 80991
		Track - Three-phase Recessed White DALI Track, 3 m (9000-3/W-R) Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	<b>Finish</b> White <b>Code</b> 80992
		Track - Three-phase Recessed Grey DALI Track, 1 m (9000-1/B-R) Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	<b>Finish</b> Black <b>Code</b> 80993
		Track - Three-phase Recessed Black DALI Track, 2 m (9000-1/B-R) Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	<b>Finish</b> Black <b>Code</b> 80994
		Track - Three-phase Recessed Black DALI Track, 3 m (9000-3/B-R) Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	<b>Finish</b> Black <b>Code</b> 80995
		Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	<b>Finish</b> White <b>Code</b> 83336

Optus\_T | Projectors | Accessories  
83909W60

		<p>Track Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>83337</td> </tr> </tbody> </table>	Finish	Code	White	83337
Finish	Code						
White	83337						
		<p>Track Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>White</td> <td>83338</td> </tr> </tbody> </table>	Finish	Code	White	83338
Finish	Code						
White	83338						
		<p>Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>83339</td> </tr> </tbody> </table>	Finish	Code	Black	83339
Finish	Code						
Black	83339						
		<p>Track Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>83340</td> </tr> </tbody> </table>	Finish	Code	Black	83340
Finish	Code						
Black	83340						
		<p>Track Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.</p>	<table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td>83341</td> </tr> </tbody> </table>	Finish	Code	Black	83341
Finish	Code						
Black	83341						
	<p>Diffuser Diffuser Type: elliptical filter. Material:Pom-C, colour:Black.</p>	<table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>99797</td> </tr> </tbody> </table>	Code	99797			
Code							
99797							
	<p>Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.</p>	<table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>99798</td> </tr> </tbody> </table>	Code	99798			
Code							
99798							
	<p>Anti-glare Anti-glare Type: cylindrical screen. Material:Pom-C, colour:Black.</p>	<table border="1"> <thead> <tr> <th>Code</th> </tr> </thead> <tbody> <tr> <td>99796</td> </tr> </tbody> </table>	Code	99796			
Code							
99796							



Optics  
 Light distribution: spot,Cover material: uv resistant polycarbonate

**Code**  
99808



Optics  
 Light distribution: medium flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate

**Code**  
99809



Optics  
 Light distribution: flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate

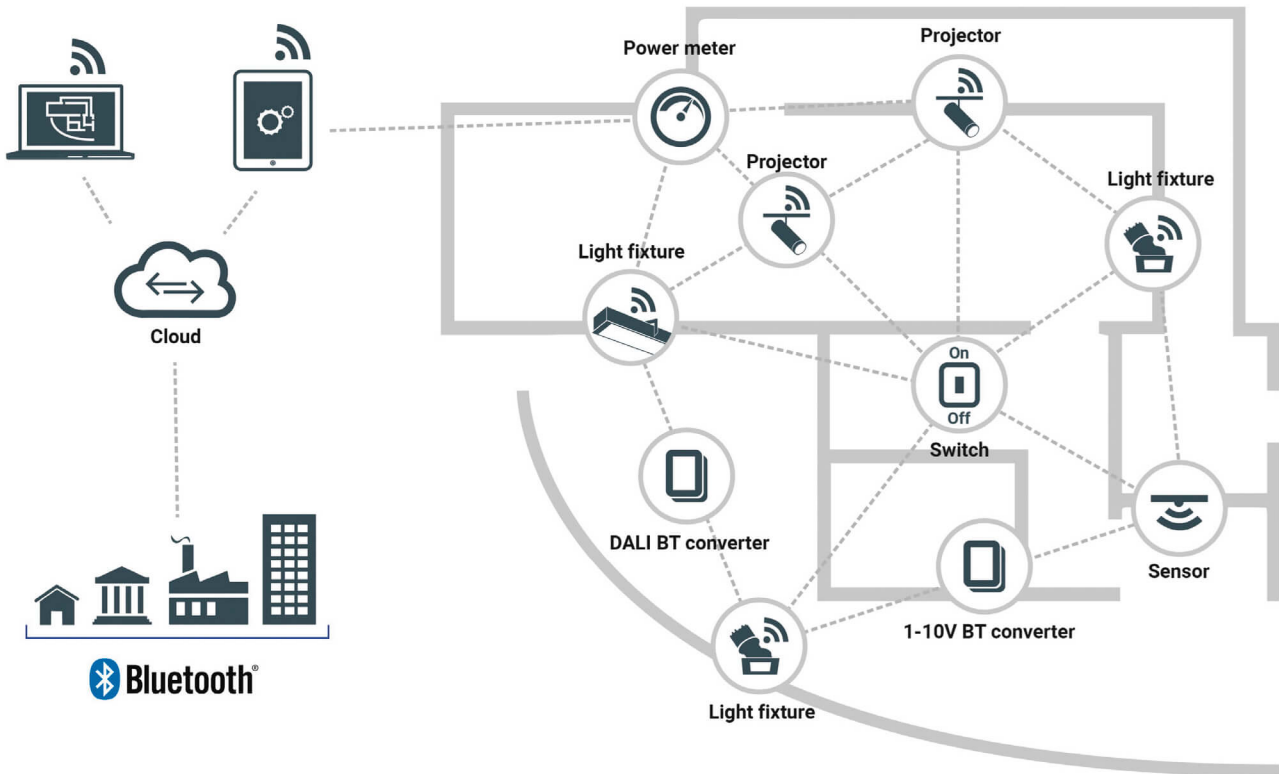
**Code**  
99810



Optics - Focal kit (min 16° max 42°)  
 Light distribution: adjustable,Cover material: ,aluminium

**Code**  
99843

### Wiring Diagram



#### Identify

The first time the device is turned on and every time it gets resetted, the system identify the lamps. The identification consists in an animation called "Attention event" with a 40% dimming for 500ms, 100% dimming for 500ms. The blue status LED blinks during identification too, 500msON/500ms OFF.

#### Bluetooth - Factory reset for Bluetooth device

A factory reset of the bluetooth device will change the device status in the network mesh from provisioned to not provisioned, all the network settings will be lost. This feature is necessary to reset the connection of a device which cannot be longer controlled. To perform the factory reset action on the device a magnet must be placed on the shown symbol on the box containing the bluetooth module. Keep contact for 5 seconds. Once the factory reset operation is done the system will identify the device.



#### Antenna

The antenna is incorporated into the article.

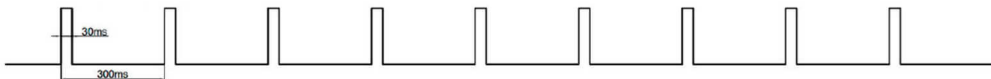
#### LED Blinking

The blue status LED placed on the box containing the Bluetooth interface performs a blink pattern depending on the lamp status.

#### Quick blinking/slow blinking

The LED blinks fast if the lamp is not connected to the network (every 300ms)  
The LED blinks slowly if the lamp is connected to the network (every 2s)

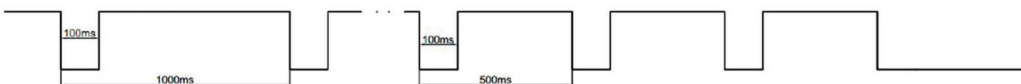
#### Unprovisioned



#### Provisioned



#### Factory Reset



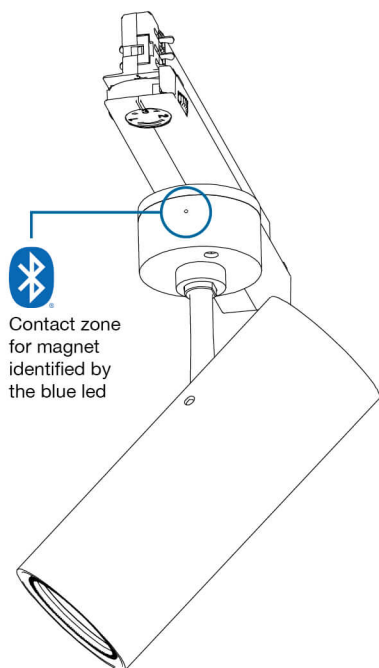
#### Mesh packet received



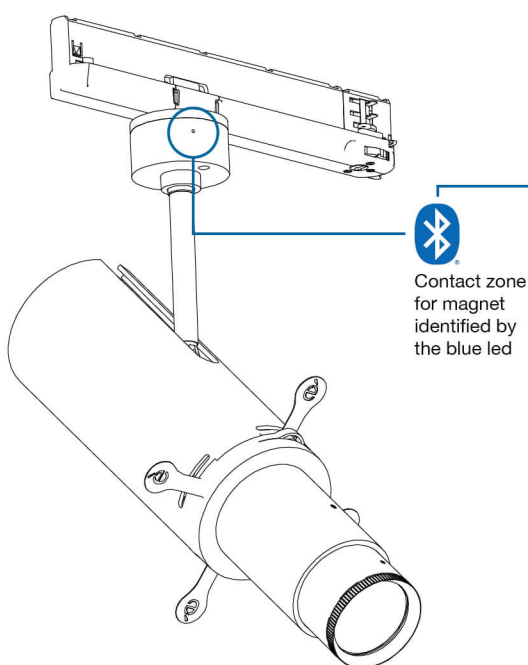
## Other informations

- If the device is encased in a box, the wireless range may be affected, especially by metallic surfaces. Wireless range must be verified.
- Anunprovisioned device requires 30 seconds to be shown as available to provisioning after turning on
- The device successfully passed the SILVAIR test process
- Supporting EnOcean switch 83017
- Supporting Murata 83016 sensors
- The device can be operated with the SILVAIR app available for Apple phones and tablets
- Check the SILVAIR guide for more informations <https://silvair.com/resources/product-documents/>
- Linea Light has no responsibility for any third party instrument and does not provide any declaration, explicit or implicit, about the availability and/or the performances of said instrument.

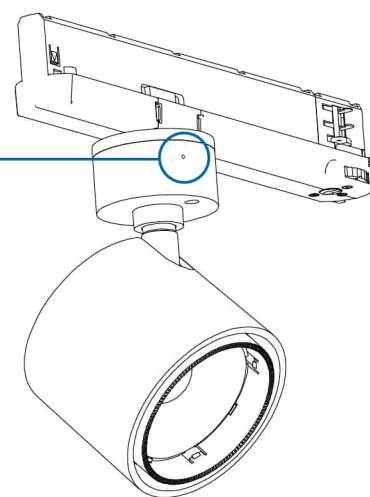
### POUND\_T POUND FOCUS



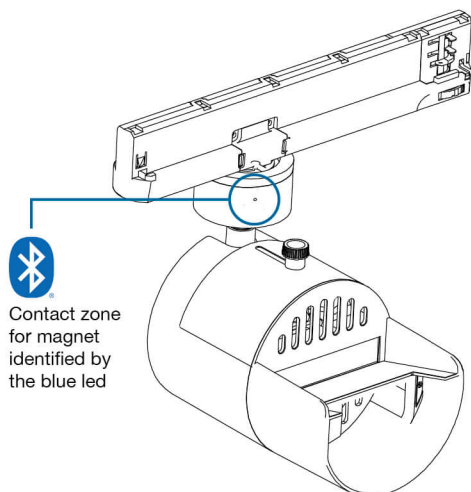
### POUND SHAPER



### OPTUS\_T



### OPTUS\_Ww



### Base NAVATA OPTUS NAVATA POUND SHAPER

