

Date \_\_\_\_\_  
 Company \_\_\_\_\_  
 Project \_\_\_\_\_



## Explanation

Leoline® S12RGBA Series is a high-performance and highly durable product range. Despite its high durability, it has a linear, aesthetic and minimal appearance. Leoline® S12RGBA Series is designed specifically for "wall washing" or "wall grazing" applications as a surface-mounted exterior architectural lighting product. Leoline® S12RGBA Series consists 4inn1 Chip LEDs at every 315mm (1ft). It is available in 315mm (1ft), 615mm (2ft), 915mm (3ft) 1215mm (4ft), 1515mm (5ft) lengths and it provides excellent color mix with 5 different beam angles, as standard. Each 315mm (1ft) section can be individually addressed for more detailed colour changing animations. It is produced from a single piece of extruded aluminum and processed meticulously in CNC machines. Thus, Leoline® S12RGBA Series is produced without the side cover and its durability allows it to work for many years even in the most demanding conditions. Push-lock connectors are used as "in/out" without any space. Since the connector areas are hidden, no cable is visible when viewed externally in linear use.

Leoline® S12RGBA Series provides easy setup and programming with standard DMX512 and RDM protocols without the need for special and complex communication protocols. The Dynamic Power Boost feature allows light to always show maximum brightness and intensify non-white colors. The mounting bracket is at 10° angle and fixed at the adjusted angle due to a locked thread and does not change direction according to the weather conditions. In addition, it provides a linear and spaceless form when mounting to the floor using the U bracket.

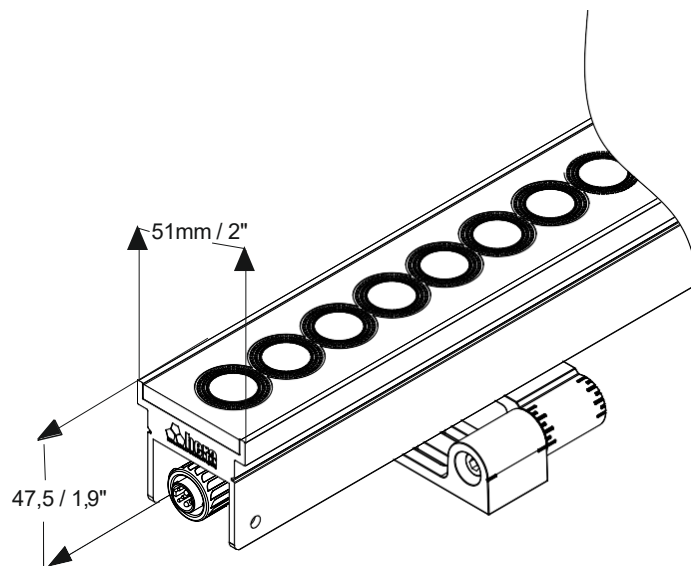
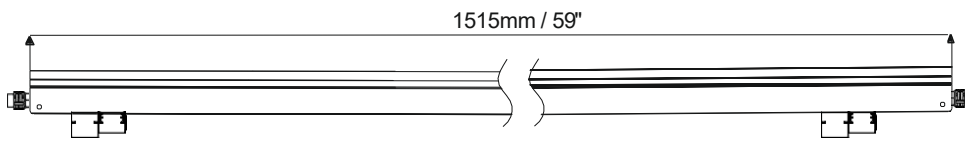
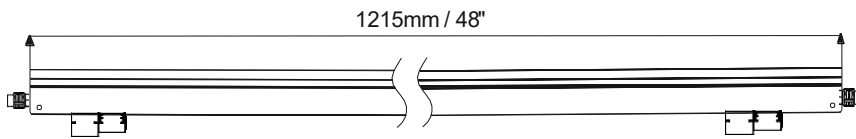
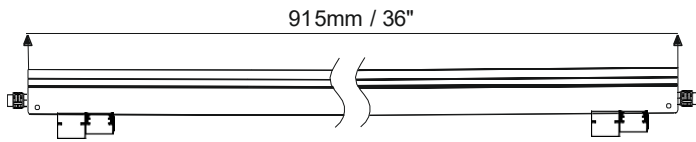
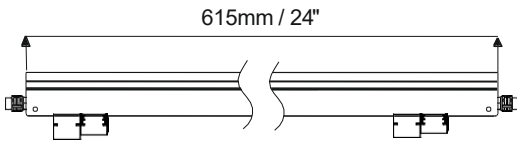
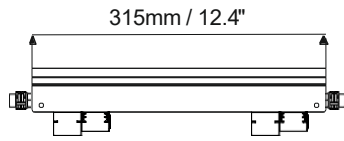
- Leoline® S12RGBA Series provides compatible communication with other fixtures using standard DMX512 and RDM protocols without requiring any other special communication protocol or production ID. They are remotely addressable in group via RDM protocol. This feature allows for easy pixel mapping and addressing after all installations have been completed.
- Leoline® S12RGBA fixtures enable flexible application using very long starter and jumper cables, since they operate in a 48V DC voltage range.
- The operating characteristics of the fixtures are able to be changed through the DMX Personality, therefore it is possible to change the number of pixels of the products as well. The number of pixels of the fixtures can be changed to be optimized for appearance and scenario variations. For example, each 315mm (1ft) can be 1 pixel, or a single fixture as 1 pixel.
- Through RDM monitoring and software, it is possible to follow and determine: whether the fixtures are working properly, by displaying voltage input and output warnings, serial number, display of regional temperature values and DMX address. The user is informed by e-mail according to incoming data thus, automatic interventions are possible based on received data.
- The Dynamic Power Boost feature allows light to always show maximum brightness and intensify non-white colors.
- Leoline® S12RGBA fixtures work through Madrix® software and hardware in coordination. Pixel mapping can be made easily by selecting fixtures in Madrix® library.
- Available in 5 different beam angles: 15° / 30° / 45° / 60° / 35°+15°. Custom product can be produced in different beam angle according to specific projects.
- Each 315mm (1ft) consists of 12 High Power LEDs.
- Due to its special side design, fixtures are mounted side-by-side and no shade is formed between them. Creates a continuous linear view.
- Leoline® S12RGBA is manufactured in 315mm (1ft), 615mm (2ft), 915mm (3ft), 1215mm (4ft) and 1515mm (5ft) for different forms of applications in different lengths.
- Leoline® S12RGBA fixture is in IP67 class, and it is designed to meet challenging requirements of exterior facade applications with its robust and durable structure.
- Leoline® S12RGBA is resistant to shock, vibration and other harsh conditions with its aluminum integrated body structure and 6mm thick tempered glass.
- As an optional accessory, Dark Light Louver prevents glare and does not cause dazzling.
- Suitable for using Glare Shield as an option for situations where light sources are not intended to be seen.
- Leoline® S12RGBA provides power and data transmission via input and output connectors. IP67 push-lock connectors are used via "in/out" without space. There is no need to use extra junction-box via input and output.
- Leoline® S12RGBA Series is produced in clear anodized coated color as standard. It can be coated in different anodized color upon request.

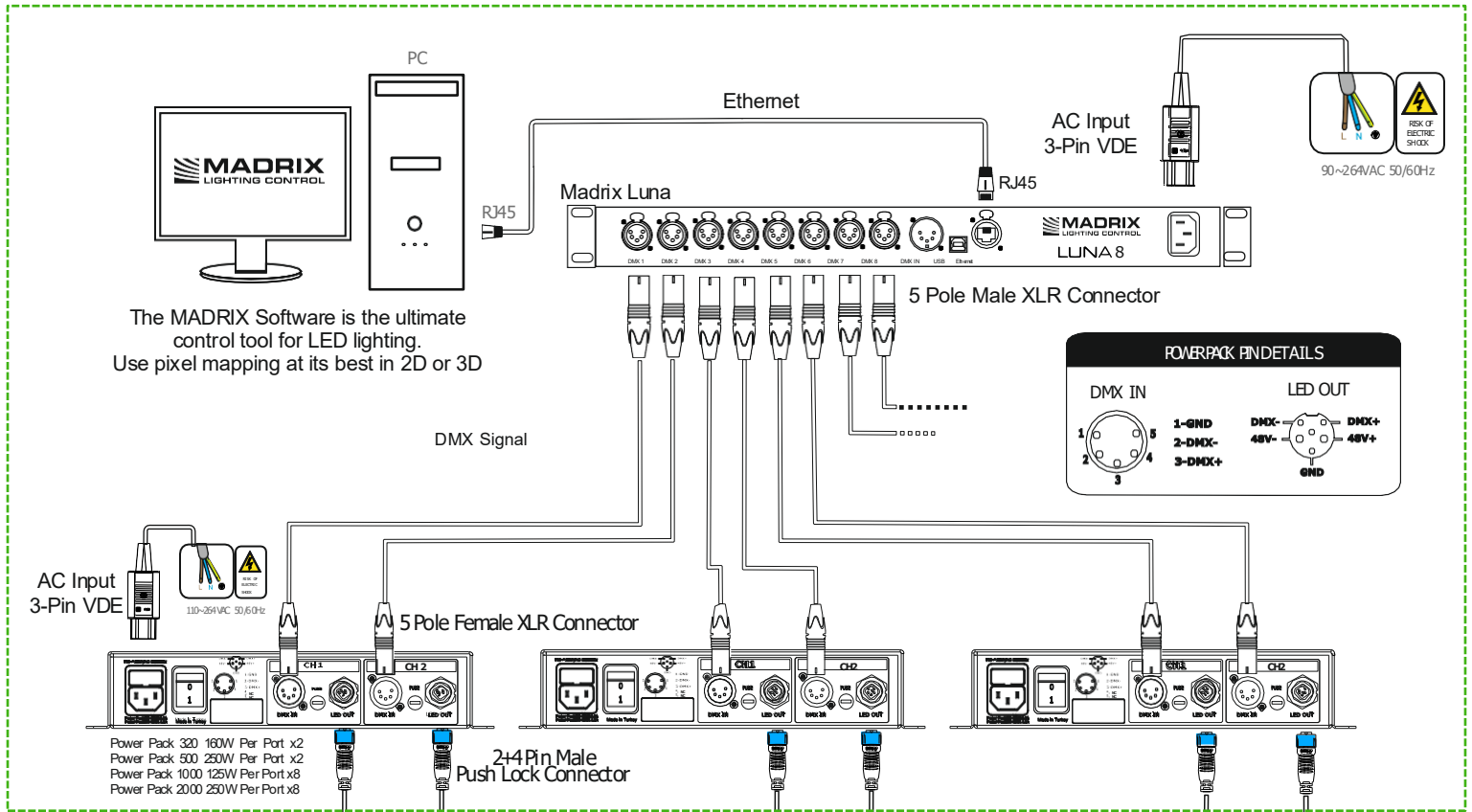
Specifications	315mm(1ft)	615mm(2ft)	915mm(3ft)	1215mm(4ft)	1515mm(5ft)
<b>Output</b>					
Light Source:	12 Mid 4in1 Chip RGBAPower LEDs per ft				
LED Pitch:	60,000 > hours L70 @ 50° C (full output)				
Lumen Maintenance:	4,29 Billion additive RGBA colors				
Color Range:	15° / 30° / 45° / 60° / 35°+15°				
Beam Angle:	<i>*The lens options above are produced as standard. Please contact us for special beam angles.</i>				
Luminous Flux:	370 lm	741 lm	1111lm	1482 lm	1852 lm
Luminous Intensity:	5285 cd	10571 cd	15856 cd	21141 cd	26427 cd
Efficacy (lm/W):	24,2 lm/W				
*The values above are measured data in RGBA "Full ON" mode and using a 15° lens. Please see IES/LTD files and photometric measurements for different lens beam angles.					
*Photometric performance is measured in compliance with IESNA LM 79-08					
*The dynamic power-boost feature enables the light to display the maximum brightness at all times and intensify non-white colors.					
<b>Control &amp; Programming</b>					
Pixel Pitch:	Pixel pitch is configurable via RDM, max 1pixel/foot				
Color Resolution:	4 x 14-bit (Gamma correction)				
Addressing:	RDM (Group of Remote Addressable Systems)				
Monitoring:	Voltage Monitoring, Temperature Monitoring, Status Monitoring, Power Cycle Monitoring, Lumen-Maintenance Life Monitoring				
PWM Frequency:	1,600Hz flicker free dimming to 0.1%				
DMX Compliance:	USITT DMX5 12-1990				
RDM Compliance:	ANSI/ESTA E1.20-2010				
<b>Electrical</b>					
Operating Voltage:	48VDC				
Power Consumption:	16 W	31,5 W	47 W	62,5 W	78 W
Maximum in Chain:	52,2 W/m Maximum at full output, steady state				
Connections:	Max 9 meters Push Lock Type 2+4 Pin Waterproof Connector				
<b>Physical</b>					
Housing:	Extruded Aluminium				
Front Material:	Clear Tempered Glass				
End Cap Material:	Integrated Body				
Installation Brackets:	Die-Cast Zinc 10° Multi-positional, locking hinges				
Hardware:	Stainless Steel				
Gasket:	Silicone				
Surface Finish:	Clear Anodized (standard) or Custom Any Anodized (optional)				
<b>Measurements:</b>					
Weight:	1,1Kg (2,4lb)	2,3Kg (5,1lb)	3,4Kg (7,4lb)	4,2Kg (9,2lb)	5,3Kg (11,5lb)
Dimensions: (H x W x D)	47,5x51x315mm 2x1,9x12,4in	47,5x51x615mm 2x1,9x24in	47,5x51x915mm 2x1,9x36in	47,5x51x1215mm 2x1,9x48in	47,5x51x1515mm 2x1,9x59in
<b>Environmental</b>					
Storage Temperature:	-40°C - 85°C (-40°F - 185°F)				
Start-up Temperature:	-25°C - 50°C (-13°F - 122°F)				
Operating Temperature:	-40°C - 50°C (-40°F - 122°F)				
Thermal Protection:	Automatic over temperature protection				
Cooling:	Cooling by free air convection				
Vibration Resistance:	Complies with ANSI C136.31-2010				
Corrosion Resistance:	Complies with ASTM B117				
Ingress Protection Rating:	IP67				
Impact Resistance Rating:	IK09				
Humidity (max.):	0 to 98%, non-condensing				
<b>Test:</b>	All Hera LED products are assessed by a stringent 100 hour test, above and beyond what they would come across in the real world. This can be seen from our advanced RDM Monitoring System as well, leaving no place for doubt. This strict testing, builds trust, when your reputation is on the line. It is our company's culture and heritage, also our way of securing our worthwhile Customers.				
<b>Certification</b>					
EU Safety:	EN 60598-1, EN 60598-2-5, EN 62471, EN 60529, EN 62262				
EU EMC:	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11				
US Safety:	UL 1598				
US EMC:	FCC Part 15 Class A				
Warranty:	5-year Limited Warranty				

†IEC/TR 62778: Risk Group 2

Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eye.

"The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 25 m is not expected."





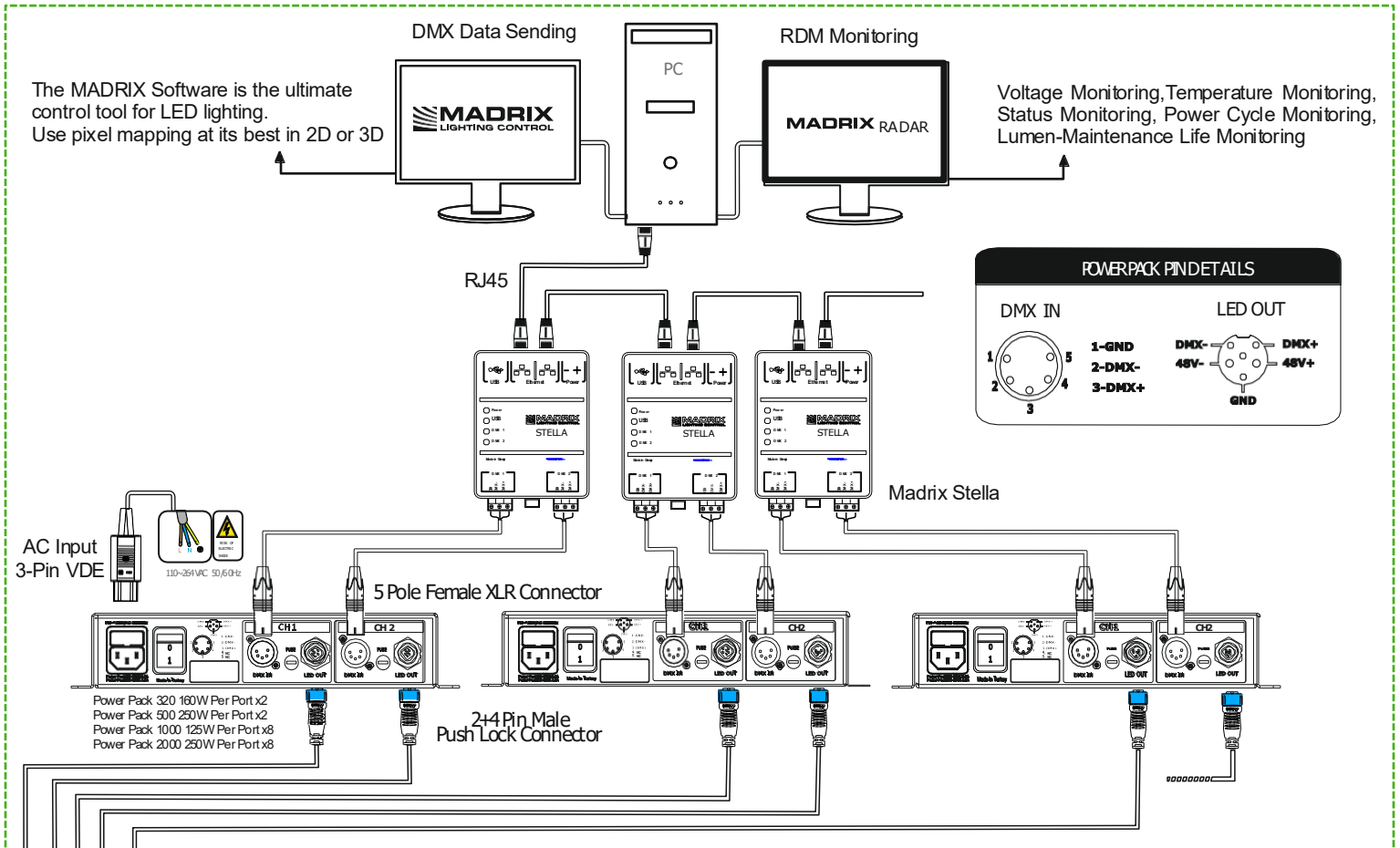
### Suggestions to Reach for DMX Control

- The total cable length should not be more than 3,900 ft (1200m) without buffering.
- The total fixture number should not be more than 32 pcs on a single line without buffering.
- It is recommended to use only connection cables with a characteristic impedance of 120 ohm, where the DMX + and DMX - data lines are intertwined and there is a ground link as a coaxial screen surrounding the inner cores.
- 120 Ω terminating resistor should be connected between the DMX + and DMX - output connections on the last fixture.
- Do not insert a passive Y-split into the control cabling.
- Use a powered DMX splitter/buffer if it is necessary to separate the control link in order to feed fixtures in different locations.
- Make sure that the DMX + and DMX - connections do not get crossed at any point.

### Notes:

- 1) Maximum total length of chain (fixtures and leader cable) is 59m.
- 2) Maximum total length of fixtures in chain is 9m.
- 3) Maximum total length of leader cable is 50m.

Indoor Zone



### Suggestions to Reach for DMX Control

The total cable length should not be more than 3,900 ft (1200m) without buffering.  
 The total fixture number should not be more than 32 pcs on a single line without buffering.  
 It is recommended to use only connection cables with a characteristic impedance of 120 ohm, where the DMX + and DMX - data lines are intertwined and there is a ground link as a coaxial screen surrounding the inner cores.  
 120 Ω terminating resistor should be connected between the DMX + and DMX - output connections on the last fixture.  
 Do not insert a passive Y-split into the control cabling.  
 Use a powered DMX splitter/buffer if it is necessary to separate the control link in order to feed fixtures in different locations.  
 Make sure that the DMX + and DMX - connections do not get crossed at any point.

### Notes:

- 1) Maximum total length of chain (fixtures and leader cable) is 59m.
- 2) Maximum total length of fixtures in chain is 9m.
- 3) Maximum total length of leader cable is 50m.

Outdoor Zone

**RDM Explanation**

Leoline®S12 RGBA Series complies with the RDM Monitoring Command System. In order to use RDM Monitoring System, a compatible controller is required depending on the installation. Through DMX data connection, it is possible to control or change the fixture's settings, send commands and receive or monitor the fixture's data. The recommended RDM controller and the wiring diagram can be found on page 5. RDM command functions supported by Leoline® S12 RGBA are given in the list below.

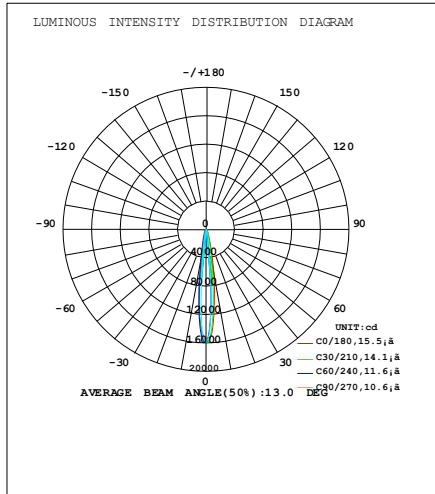
Device Management	Get	Set
Device Info	✓	
DMX Start Address	✓	✓
Identify Device	✓	✓
Device Model Description	✓	
Device Label	✓	✓
Software Version Label	✓	
DMX Personality	✓	✓
DMX Personality Description	✓	
Device Hours	✓	
Lamp Hours	✓	
Device Power Cycles	✓	
Status Message	✓	
Queued Message	✓	
Status ID Description	✓	
Supported Parameters	✓	
Parameter Description	✓	
Factory Defaults		✓
Sensor Definition	✓	
Sensor Value	✓	
Record Sensor		✓
Reset Device		✓
Power State	✓	✓
Perform Self Test		✓
Self Test Description	✓	
Language	✓	

\* The command names and command functions used on different RDM controllers may vary.

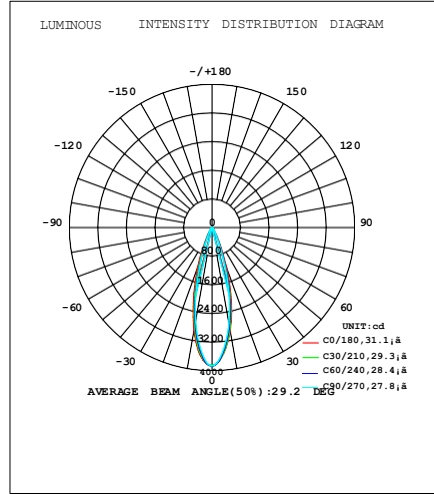
\* Incompatible RDM controllers may cause drawbacks such as partial operation, no-operation, or incorrect fixture information.

\* You can check the recommended RDM controllers on the [www.heraled.com](http://www.heraled.com) website.

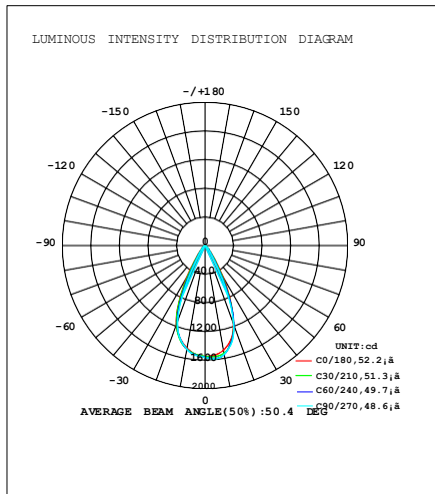
Narrow Beam 15°



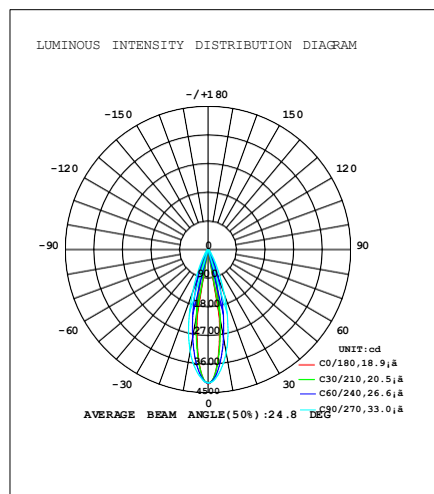
Medium Beam 30°



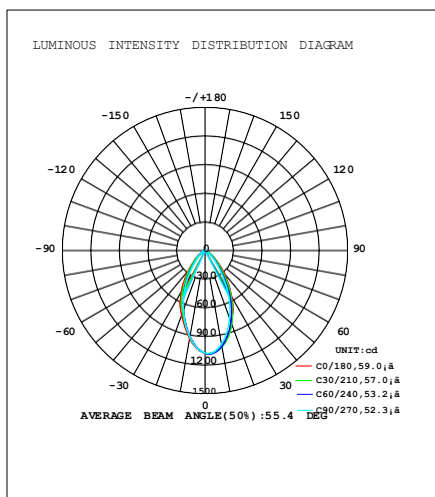
Wide Beam 45°



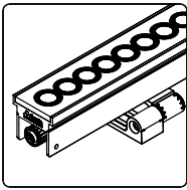
Asymmetric Beam 35°+15°



Very Wide Beam 60°

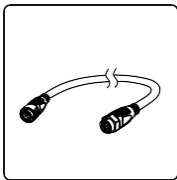


**Products**



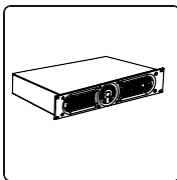
- P02020091 Leoline® S12 315mm DMX RGBA Surface Mounted Narrow Beam 15°
- P02020092 Leoline® S12 315mm DMX RGBA Surface Mounted Medium Beam 30°
- P02020093 Leoline® S12 315mm DMX RGBA Surface Mounted Wide Beam 45°
- P02020094 Leoline® S12 315mm DMX RGBA Surface Mounted Very Wide Beam 60°
- P02020096 Leoline® S12 315mm DMX RGBA Surface Mounted Asymmetric Beam 35°+15°
- P02021091 Leoline® S12 615mm DMX RGBA Surface Mounted Narrow Beam 15°
- P02021092 Leoline® S12 615mm DMX RGBA Surface Mounted Medium Beam 30°
- P02021093 Leoline® S12 615mm DMX RGBA Surface Mounted Wide Beam 45°
- P02021094 Leoline® S12 615mm DMX RGBA Surface Mounted Very Wide Beam 60°
- P02021096 Leoline® S12 615mm DMX RGBA Surface Mounted Asymmetric Beam 35°+15°
- P02022091 Leoline® S12 915mm DMX RGBA Surface Mounted Narrow Beam 15°
- P02022092 Leoline® S12 915mm DMX RGBA Surface Mounted Medium Beam 30°
- P02022093 Leoline® S12 915mm DMX RGBA Surface Mounted Wide Beam 45°
- P02022094 Leoline® S12 915mm DMX RGBA Surface Mounted Very Wide Beam 60°
- P02022096 Leoline® S12 915mm DMX RGBA Surface Mounted Asymmetric Beam 35°+15°
- P02023091 Leoline® S12 1215mm DMX RGBA Surface Mounted Narrow Beam 15°
- P02023092 Leoline® S12 1215mm DMX RGBA Surface Mounted Medium Beam 30°
- P02023093 Leoline® S12 1215mm DMX RGBA Surface Mounted Wide Beam 45°
- P02023094 Leoline® S12 1215mm DMX RGBA Surface Mounted Very Wide Beam 60°
- P02023096 Leoline® S12 1215mm DMX RGBA Surface Mounted Asymmetric Beam 35°+15°
- P02024091 Leoline® S12 1515mm DMX RGBA Surface Mounted Narrow Beam 15°
- P02024092 Leoline® S12 1515mm DMX RGBA Surface Mounted Medium Beam 30°
- P02024093 Leoline® S12 1515mm DMX RGBA Surface Mounted Wide Beam 45°
- P02024094 Leoline® S12 1515mm DMX RGBA Surface Mounted Very Wide Beam 60°
- P02024096 Leoline® S12 1515mm DMX RGBA Surface Mounted Asymmetric Beam 35°+15°

**Cable**



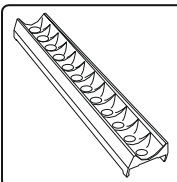
- |             |  |            |   |
|-------------|--|------------|---|
| P20202-1    | Push Lock Type 2+4 Pin 1M Extension Cable    | P20202-2   | Push Lock Type 2+4 Pin 2M Extension Cable   |
| P20202-2.5  | Push Lock Type 2+4 Pin 2.5M Extension Cable  | P20202-2.5 | Push Lock Type 2+4 Pin 2.5M Extension Cable |
| P20202-5    | Push Lock Type 2+4 Pin 5M Extension Cable    | P20202-3   | Push Lock Type 2+4 Pin 3M Extension Cable   |
| P20202-7.5  | Push Lock Type 2+4 Pin 7.5M Extension Cable  | P20202-3.5 | Push Lock Type 2+4 Pin 3.5M Extension Cable |
| P20202-10   | Push Lock Type 2+4 Pin 10M Extension Cable   | P20202-4   | Push Lock Type 2+4 Pin 4M Extension Cable   |
| P20202-15   | Push Lock Type 2+4 Pin 15M Extension Cable   | P20202-5   | Push Lock Type 2+4 Pin 5M Extension Cable   |
| P20202-20   | Push Lock Type 2+4 Pin 20M Extension Cable   | P20202-7.5 | Push Lock Type 2+4 Pin 7.5M Extension Cable |
| P20202-0.5  | Push Lock Type 2+4 Pin 0.5M Extension Cable  | P20202-10  | Push Lock Type 2+4 Pin 10M Extension Cable  |
| P20202-0.75 | Push Lock Type 2+4 Pin 0.75M Extension Cable | P20202-15  | Push Lock Type 2+4 Pin 15M Extension Cable  |
| P20202-1    | Push Lock Type 2+4 Pin 1M Extension Cable    | P20202-20  | Push Lock Type 2+4 Pin 20M Extension Cable  |
| P20202-1.5  | Push Lock Type 2+4 Pin 1.5M Extension Cable  |            |   |

**Power / Data Supplies**

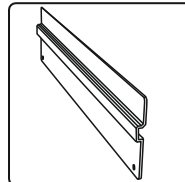


- P08002 Power Pack 320 320W 2 Outputs Power Supply
- P08003 Power Pack 500 500W 2 Outputs Power Supply
- P08004 Power Pack 1000 1000W 8 Outputs Power Supply
- P08013 Power Pack 2000 2000W 8 Outputs Power Supply

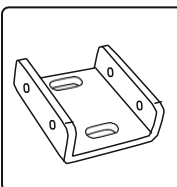
**Accessories**



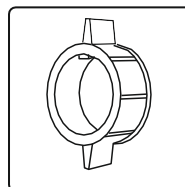
P20056 Leoline® S 12 Series Dark Light Louver



- P20057 Leoline® S Series 315mm Glare Shield
- P20058 Leoline® S Series 615mm Glare Shield
- P20059 Leoline® S Series 915mm Glare Shield
- P20060 Leoline® S Series 1215mm Glare Shield
- P20061 Leoline® S Series 1515mm Glare Shield



P20062 Leoline® S Series Surface Mounting Equipment



P20203 2+4 Pin Female Plug Cap



**HERA EĞLENCE VE MİMARİ AYDINLATMA  
SİSTEMLERİ İÇ VE DIŞ TİCARET A.Ş.**

Güllübağlar Mah. Kahramanlar Cad. No 3/1  
34906 Pendik / İSTANBUL / TÜRKİYE  
T: 0216 307 79 00 (pbx) F: 0216 307 79 02

[www.heraled.com](http://www.heraled.com) [info@heraled.com](mailto:info@heraled.com)

