



■● THE ARCHITECTURAL DIMENSION





Nearly thirty years ago, when the company was established, engineering lighting equipment at GRIVEN wasn't just another business, it turned out to be an opportunity to come into contact with a new form of art instead.

International recognition arrived in the early nineties and kept growing steadily by the regular release of innovative and original light fittings. The overriding ambition was to search for lighting solutions where the highest design standards, efficiency and flexibility would always remain core values of the proudly Made in Italy excellence.

The fast development of the Solid-State Lighting technology has continuously been stretching the boundaries of applicable solutions disclosing previously unexplored dimensions.

The improved combination of sustainability and performance has revealed functional and groundbreaking elements that represent the foundation of this latest collection, too.

Every urban context - whether it is historic or modern architecture, corporate or private buildings - can gain new identity and symbolic value by means of a multidisciplinary lighting education approach. Our entertainment industry know-how and fresh architectural lighting perception are implemented through a series of digital technology products for façade lighting, linear wall-grazing, recessed applications, as well as water features lighting, image projection and living architecture solutions.

Our continued cooperation with the most renowned lighting designers and architects of different cultural backgrounds is an inexhaustible source of inspiration for the development of functional or decorative custom-made quality products that help redefine the space we live in with eco-friendly and energy saving solutions.

GRIVEN undertakes the next challenges calling for the design of an advanced though sustainable range of lighting equipment that undoubtedly is also a crucial medium for wellbeing, user comfort and an even more aesthetically pleasing environment without compromising future generations.

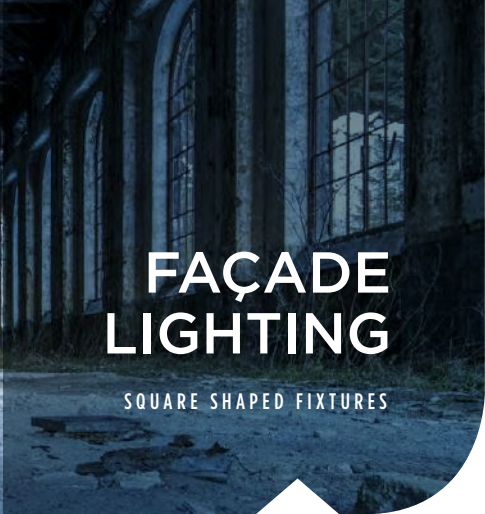




GRIVEN



# INDEX



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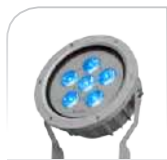


# FAÇADE LIGHTING

ROUND SHAPED FIXTURES



JASPER  
48



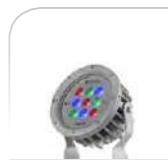
RUBY MC  
52



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56



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60



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68

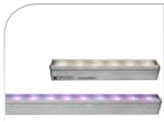


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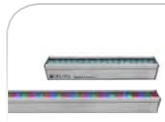


# LINEAR WALL GRAZING



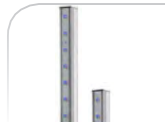
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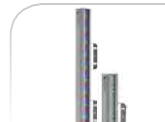
PARADE X-18 36

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PARADE S-20 40 60

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PARADE C-18 36

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PARADE D-RGB-5 10

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PARADE D-W-6 9 12 MK3

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# RECESSED APPLICATIONS

ROUND SHAPED FIXTURES



DUNE MC

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DUNE MK2

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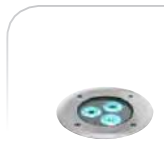
RUBY MC R

116



RUBY R

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MICRO-DUNE MK2

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ATHOMO

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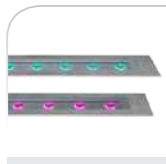


# RECESSED APPLICATIONS

LINEAR MODULES



PARADE S-20 40 R  
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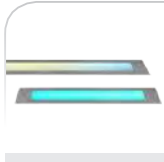
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PARADE GRAPHIC R 20 40  
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# IMAGE PROJECTION

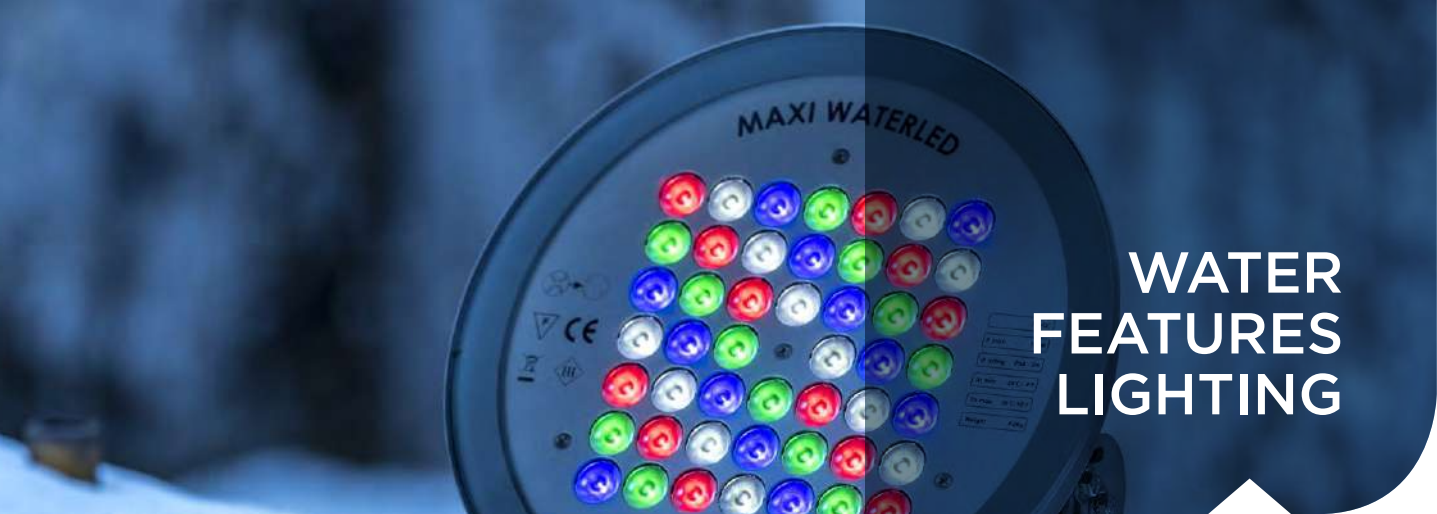


GOBOLED 7-Pro  
204



GOBOLED 80D  
208





# WATER FEATURES LIGHTING



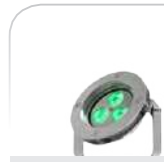
MAXI WATERLED  
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WATERLED MK2  
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# SYMBOLS LEGEND

	RGB		REMOTE FIRMWARE UPDATE		ELECTRONIC LINEAR 0-100% DIMMER FUNCTION
	RGBW		RDM FUNCTION		ELECTRONIC STROBE FUNCTION
	FULL-COLOUR		WIRELESS DATA SYSTEM		ELECTRONIC BLACKOUT FUNCTION
	WARM WHITE		PROTECTION AGAINST MECHANICAL IMPACTS		ROTATING GOBO
	COLD WHITE		INGRESS PROTECTION RATING		FIXED GOBO
	DYNAMIC WHITE		ANTI-SLIP TREATMENT		ROTATING EFFECT WHEEL
	NATURAL WHITE		2000 KG LOAD BEARING		PRISM EFFECT
	MONOCHROME		GRIVEN DATA PROTOCOL		PULSATION EFFECT
	POLAR EDITION		SELF-ADDRESSING FIXTURE		
	EASY EDITION		FOCUSING FUNCTION		

## CUSTOMISATIONS

This catalogue features a broad range of standard designs covering several lighting industry applications. However, we also have in-house prototype and customisation capabilities to accommodate modifications so to assure maximum products adaptation to specific site conditions and dedicated project requirements.



# FAÇADE LIGHTING

## SQUARE SHAPED FIXTURES

These surface mount square shaped solutions feature highly powerful fixtures for striking output and more compact models for remarkable illumination at medium distances. Colour mixing technology assures superb and versatile project design. The combination of premium class RGBW LEDs gives unique white light quality and a wider variety of intermediate colour hues. Alternative monochrome and white light versions further ensure maximum chromatic adaptability. Full selections of high build design optics offer the utmost efficiency, balanced projection and photometric flexibility. The digital control via DMX512 protocol includes also standalone, Master-Slave and RDM functions. CSA certified versions are available as well as Polar Edition options.

FAÇADE LIGHTING



# POWERSHINE MK2 D



Available with a vast choice of optics for the maximum lighting design flexibility, POWERSHINE MK2 D is a double cluster wall washer with full independent control of each LED bank, allowing absolute freedom to create matching or divergent effects on formerly prohibitive large-scale façades and remote spots.



## TECHNICAL SPECIFICATIONS

192 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
RGBW 2.6A @ 230V / 576W max  
W 2.3A @ 230V / 620W max  
DW 2.6A @ 230V / 620W max  
EASY EDITION 2.2A @ 230V / 479W max  
Electrical class: I  
Self-resetting fuse protection

Meets CE and CSA safety standards  
Die cast aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management

**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.

**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request.

41 Kg  
Easy Edition 38 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# POWERSHINE MK2 D

FAÇADE LIGHTING

## CODES

AL3690A POWERSHINE MK2 D RGBW  
 AL3692A POWERSHINE MK2 D WW  
 AL3694A POWERSHINE MK2 D CW  
 AL3696A POWERSHINE MK2 D DW  
  
 AL3870CW POWERSHINE MK2 D EASY CW  
 AL3870WW POWERSHINE MK2 D EASY WW

## OPTICS

AL3710 SPOT OPTICS  
 AL3712 NARROW OPTICS  
 AL3714 MEDIUM OPTICS  
 AL3716 WIDE OPTICS  
 AL3717 EXTRA WIDE OPTICS  
 AL3718 ELLIPTICAL OPTICS  
 AL3720 ELLIPTICAL WIDE OPTICS

## NOTES

Each Powershine MK2 D must always be fitted with two of the above listed optics to be ordered separately.  
 The Polar Edition can be ordered by adding PE to the code. Optics codes remain unchanged. Not available for the Easy Edition.  
 On request, Powershine MK2 D is available also in the CSA certified version.

## ACCESSORIES



**AL2199** ANTIGLARE SHIELD  
 (ONE FOR EACH BANK)

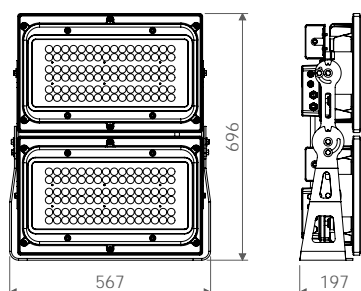
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	8°
NARROW	12°
MEDIUM	23°
WIDE	43°
EXTRA WIDE	68°
ELLIPTICAL	11°x41°
ELLIPTICAL WIDE	22°x39°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









FAÇADE LIGHTING

مناجج شيراتون الدرعية



POWERSHINE MK2 S sets the benchmark for illumination of large scale architectural structures and associated applications calling for high impact lighting. With an industry leading high lumen package, the luminaire effectively achieves desired goals, ranging from simple façade lighting to illumination of objects from long distances, and simplifies installations using fewer units.



## TECHNICAL SPECIFICATIONS

96 high brightness RGBW or white power LEDs unit  
 Continuously variable light intensity  
 DMX, automatic and Master-Slave mode  
 Remote firmware update (RFU)  
 RDM function  
 Power supply:  
 standard 100÷277V / 50-60Hz  
 Power consumption:  
 RGBW 1.3A @ 230V / 281W max  
 W/DW 1.07A @ 230V / 310W max  
 EASY EDITION 1.1A @ 230V / 241W max  
 Electrical class: I  
 Self-resetting fuse protection  
 Meets CE and CSA safety standards

Die cast aluminium body  
 IP66  
 Operating temperature:  
 -40°C to 50°C (-40°F to 122°F)  
 Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request.  
 20 Kg  
 Easy Edition 19 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# POWERSHINE MK2 S

FAÇADE LIGHTING

## CODES

AL3700A/21A/27A/33A POWERSHINE MK2 S RGBW/WW/CW/DW SPOT  
 AL3701A/22A/28A/34A POWERSHINE MK2 S RGBW/WW/CW/DW NARROW  
 AL3702A/23A/29A/35A POWERSHINE MK2 S RGBW/WW/CW/DW MEDIUM  
 AL3703A/24A/30A/36A POWERSHINE MK2 S RGBW/WW/CW/DW WIDE  
 AL3706A/46A/47A/58A POWERSHINE MK2 S RGBW/WW/CW/DW EXTRA WIDE  
 AL3704A/25A/31A/37A POWERSHINE MK2 S RGBW/WW/CW/DW ELLIPTICAL  
 AL3705A/26A/32A/38A POWERSHINE MK2 S RGBW/WW/CW/DW ELLIPTICAL WIDE

AL3860 POWERSHINE MK2 S EASY

## NOTES

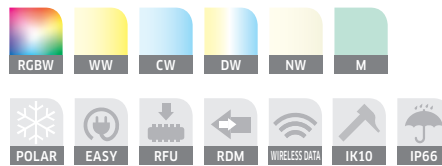
The Polar Edition can be ordered by adding PE to the code. Not available for the Easy Edition.  
 On request, Powershine MK2 S is available also in the CSA certified version.  
 All code extensions of the EASY EDITION can be found on our website.

## ACCESSORIES



AL2199 ANTIGLARE SHIELD

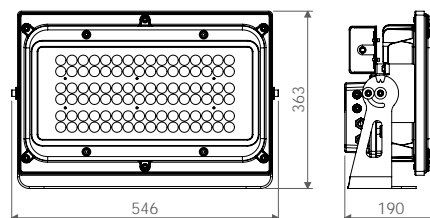
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	8°
NARROW	12°
MEDIUM	23°
WIDE	43°
EXTRA WIDE	68°
ELLIPTICAL	11°x41°
ELLIPTICAL WIDE	22°x39°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING





Specific for architectural projects demanding for impressive though sustainable lighting performance, ONYX features an incomparably functional, ultra-narrow, sharp, long-shot beam of light capable of reaching previously unthinkable distances with amazing precision and even light distribution.



## TECHNICAL SPECIFICATIONS

96 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
1.38A @ 230V / 310W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards  
Die cast aluminium body  
IP66

Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
17.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





FAÇADE LIGHTING

**CODES**

AL4052 ONYX

<b>AL4052</b>	<b>US</b>	<b>RW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

**OPTICS**

**US** Ultra spot

**LED TYPE**

- RW** RGBW
- CW** Cold white
- WW** Warm white
- DW** Dynamic white

**OPTION**

**PE** Polar edition

**NOTES**

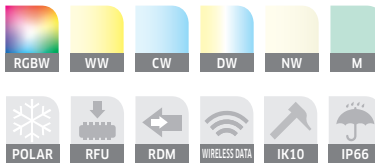
On request, Onyx is available also in the CSA certified version.

**ACCESSORIES**



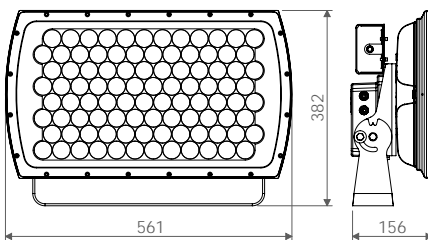
**AL4108** ANTIGLARE SHIELD

**FEATURES AND OPTIONS**



**BEAM ANGLE REFERENCE**

- ULTRA SPOT RGBW 3.8°
- ULTRA SPOT W/DW 7.2°

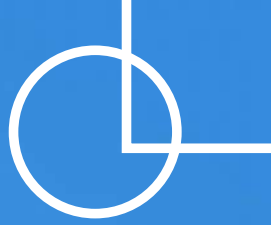


PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









FAÇADE LIGHTING

# ONYX XQ



Specific for architectural projects demanding for impressive though sustainable lighting performance, ONYX XQ features an incomparably functional, ultra-spot, sharp, long-shot beam of light capable of reaching previously unthinkable distances with amazing precision and even light distribution.



## TECHNICAL SPECIFICATIONS

96 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
1.34A @ 230V / 286W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards

Die cast aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
17.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# ONYX XQ

FAÇADE LIGHTING

## CODES

AL4436 ONYX XQ

<b>AL4436</b>	<b>US</b>	<b>RW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**US** Ultra spot

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## OPTION

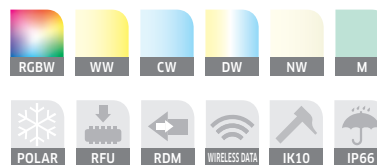
**PE** Polar edition

## ACCESSORIES



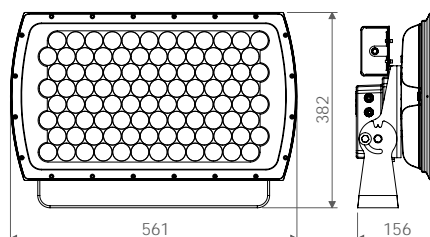
**AL4108** ANTIGLARE SHIELD

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

ULTRA SPOT RGBW 3.2°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE



> KUWAIT\_Letter Tower, Kuwait City





FAÇADE LIGHTING



# CORAL



Hosting 64 premium quality high power LEDs, CORAL delivers remarkable performances tailored to the discriminating demands of sophisticated architectural lighting from a compact body.



## TECHNICAL SPECIFICATIONS

64 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
0.7A @ 230V / 158W max  
EASY EDITION 0.66A @ 230V / 146W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards

Die cast aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management

**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.

**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request.

8 Kg  
Easy Edition 6.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# CORAL

FAÇADE LIGHTING

## CODES

AL5050 CORAL  
AL5052 CORAL EASY

AL5050	SP	RW	PE
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical Wide

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## OPTION

**PE** Polar edition

## NOTES

On request, Coral is available also in the CSA certified version.  
The Easy Edition, fitted with 60 LEDs, is available only in warm and cold white colour temperature, monochrome on request.

## ACCESSORIES

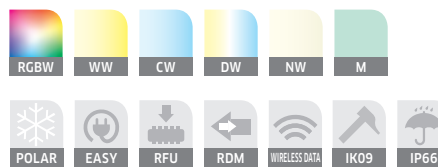


AL2517 BARNDOOR



AL2516 ANTIGLARE SHIELD

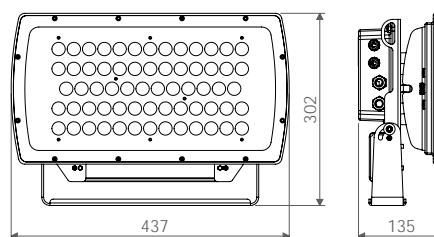
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

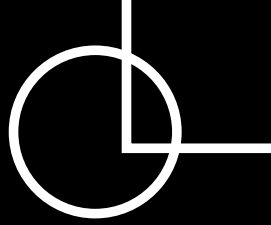
SPOT	7°
NARROW	11°
MEDIUM	20°
WIDE	43°
EXTRA WIDE	69°
ELLIPTICAL	9°x41°
ELLIPTICAL WIDE	20°x37°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









FAÇADE LIGHTING



Meeting the most demanding architectural requirements, EMERALD allows a powerful output from a compact body hosting 60 premium quality high power LEDs. Fitted with a variety of high build and design optics groups for the utmost optical efficiency, this versatile wall washer also assures balanced projection and photometric flexibility.



## TECHNICAL SPECIFICATIONS

60 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
0.4A @ 230V / 95W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards

Die cast aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
6 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# EMERALD

FAÇADE LIGHTING

## CODES

AL4900 EMERALD

<b>AL4900</b>	<b>SP</b>	<b>RW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

- SP** Spot
- NA** Narrow
- ME** Medium
- WI** Wide
- EW** Extra wide
- EL** Elliptical
- WL** Elliptical Wide

## LED TYPE

- RW** RGBW
- CW** Cold white
- WW** Warm white
- DW** Dynamic white

## OPTION

- PE** Polar edition

## NOTES

Emerald must always be purchased with AL1321 Infrared Remote Control. More Emerald units can be controlled with one AL1321. On request, Emerald is available also in the CSA certified version.

## ACCESSORIES



**AL2517** BARNDOOR



**AL1321** INFRARED REMOTE CONTROL



**AL2516** ANTIGLARE SHIELD

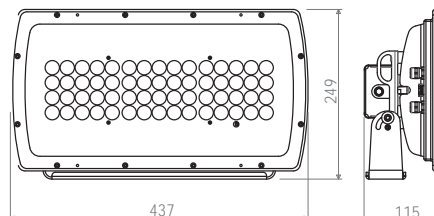
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	43°
EXTRA WIDE	68°
ELLIPTICAL	9°x41°
ELLIPTICAL WIDE	20°x38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







SANVOOR

FAÇADE LIGHTING



Hosting 40 premium quality high power LEDs, ZAPHIR delivers remarkable performances tailored to the discriminating demands of sophisticated architectural lighting from an extremely compact body. This versatile wall washer is suitable for a variety of lighting installations requiring maximum photometric flexibility.



## TECHNICAL SPECIFICATIONS

40 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
0.3A @ 230V / 66W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards

Die cast aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
4.1 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# ZAPHIR

FAÇADE LIGHTING

## CODES

AL4800 ZAPHIR

<b>AL4800</b>	<b>SP</b>	<b>RW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical Wide

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## OPTION

**PE** Polar edition

## NOTES

Zaphir must always be purchased with AL1321 Infrared Remote Control. More Zaphir units can be controlled with one AL1321. On request, Zaphir is available also in the CSA certified version.

## ACCESSORIES



**AL2359** BARNDOOR



**AL1321** INFRARED REMOTE CONTROL



**AL2358** ANTIGLARE SHIELD

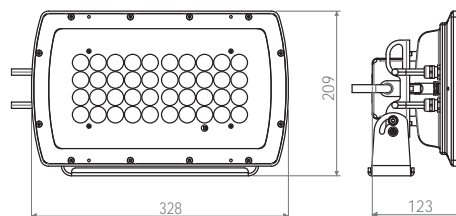
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	43°
EXTRA WIDE	68°
ELLIPTICAL	9°x41°
ELLIPTICAL WIDE	20°x38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









# DIAMOND



Based on an efficient combination of strikingly powerful RGBW full colour LEDs and providing an extremely bright light output at medium distances, DIAMOND is the perfect choice for a vast array of architectural lighting applications.



## TECHNICAL SPECIFICATIONS

12 super high brightness RGBW full colour or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
RGBW 0.6A @ 230V / 128W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards

Die cast aluminium body  
IP65  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
8.6 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# DIAMOND

FAÇADE LIGHTING

## CODES

AL5002 DIAMOND

AL5002 | SP | RW | PE

CODE | + OPTICS | + LED TYPE | + OPTION

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EL** Elliptical

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## OPTION

**PE** Polar edition

## ACCESSORIES

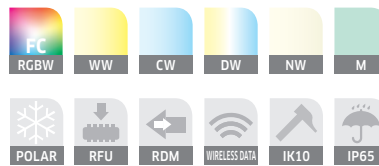


AL2379 BARNDOOR



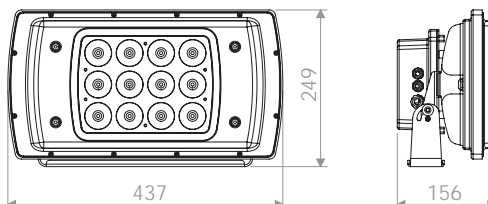
AL2391 ANTIGLARE SHIELD

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7.2°
NARROW	11°
MEDIUM	23°
WIDE	35°
ELLIPTICAL	12°x38°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





ДВОРЕЦ ИСКУССТВ «НЕФТЯНИК»



FAÇADE LIGHTING



Jasper

ZORNEN

# FAÇADE LIGHTING

ROUND SHAPED FIXTURES

These stylish round shaped solutions meet the latest aesthetical demand and deliver astonishing output mostly from medium-sized or compact housings. Colour mixing technology assures superb and versatile design. The premium class RGBW LEDs combination featured by the majority of the fixtures gives unique white light quality and a wider variety of intermediate colour hues. Monochrome and white light versions enhance chromatic adaptability. Full selections of high build design optics offer the utmost efficiency, balanced projection and photometric flexibility. The digital control via DMX512 protocol includes also standalone and Master-Slave functions. CSA certified versions, RDM function and Polar Edition options are available for some models.

FAÇADE LIGHTING



# JASPER



Ideal for spot or flood lighting of building façades or large areas, JASPER meets the latest design requirements and aesthetical prerequisites demanding for large round shaped powerful LED fixtures capable of delivering high level performances with a reduced power consumption.



## TECHNICAL SPECIFICATIONS

60 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
0.88A @ 230V / 195W max  
EASY EDITION 1.2A @ 230V / 266W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards

Aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request.  
18 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# JASPER

FAÇADE LIGHTING

## CODES

AL4360 JASPER  
AL4356 JASPER EASY

AL4360	NA	RW	PE
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**US** Ultra spot  
**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**UW** Ultra wide  
**EL** Elliptical  
**WL** Elliptical Wide

## LED TYPE

**RW** RGBW  
**WW** Warm white\*  
**CW** Cold white\*  
**DW** Dynamic white

## OPTION

**PE** Polar edition  
**D** Dimmable\*  
**PD** Dimmable Polar Edition\*

## NOTES

Jasper must always be purchased with AL1321 Infrared Remote Control. More Jasper units can be controlled with one AL1321. The Easy Edition is available only in warm and cold white colour temperature. \*Options available for the EASY EDITION.

## ACCESSORIES



AL4391 VISOR

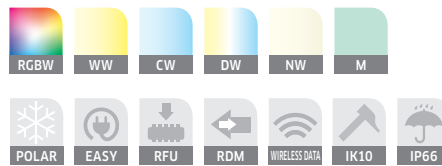


AL1321 INFRARED REMOTE CONTROL



AL4392 SNOOT

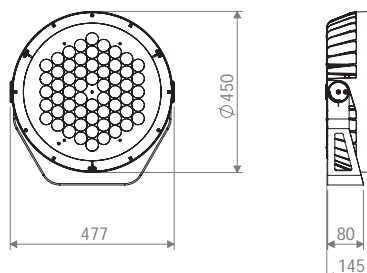
## FEATURES AND OPTIONS



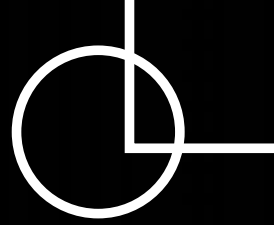
## BEAM ANGLE REFERENCE

ULTRA SPOT	4°
SPOT	8°
NARROW	11°
MEDIUM	23°
WIDE	43°
EXTRA WIDE	69°
ULTRA WIDE	130°
ELLIPTICAL	41°x11°
ELLIPTICAL WIDE	39°x22°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING

# RUBY MC



Satisfying a wide variety of architectural and landscape illumination needs, this stylish medium-sized rounded fixture, based on an efficient combination of strikingly powerful RGBW full colour LEDs, is ideal for spot lighting and wall grazing.



## TECHNICAL SPECIFICATIONS

6 high brightness RGBW full colour or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 120÷277V / 50-60Hz  
Power consumption:  
0.26A @ 230V / 57W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards

Aluminium body  
IP66  
Operating temperature:  
-30°C to 45°C (-22°F to 113°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
4.9 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# RUBY MC

FAÇADE LIGHTING

## CODES

AL4980 RUBY MC

<b>AL4980</b>	<b>SP</b>	<b>RW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**DW** Dynamic white

## OPTION

**PE** Polar edition

## NOTES

Ruby MC must always be purchased with AL1321 Infrared Remote Control. More Ruby MC units can be controlled with one AL1321. On request, Ruby MC is available also in the CSA certified version.

## ACCESSORIES



AL4366 BARNDOOR



AL1321 INFRARED REMOTE CONTROL



AL4985 SNOOT



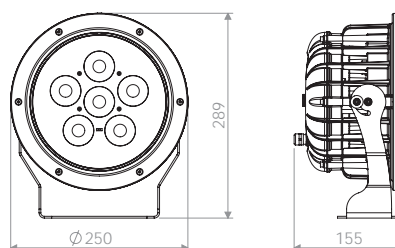
AL4984 VISOR

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

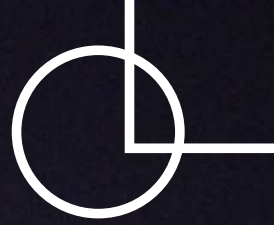
SPOT	7°
NARROW	10°
MEDIUM	23°
WIDE	35°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING





# RUBY XP



RUBY XP is capable of delivering a highly efficient luminous flux taking advantage of the twenty high power LEDs it is fitted with. This stylish and versatile fixture easily conveys spot lighting and wall grazing effects at medium to long distances owing to the wide selection of optics groups available.



## TECHNICAL SPECIFICATIONS

20 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
0.18A @ 230V / 37W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Aluminium body

IP66  
Operating temperature:  
-30°C to 50°C (-22°F to 122°F)  
Integrated electronic thermal  
protection management  
4.9 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# RUBY XP

FAÇADE LIGHTING

## CODES

AL4422 RUBY XP

AL4422 SP RW

CODE + OPTICS + LED TYPE

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical wide  
**WW** Wall wash

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## NOTES

Ruby XP must always be purchased with AL1321 Infrared Remote Control. More Ruby XP units can be controlled with one AL1321.

## ACCESSORIES



AL4366 BARNDOOR



AL1321 INFRARED REMOTE CONTROL



AL4985 SNOOT



AL4984 VISOR

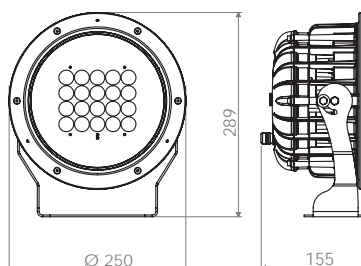
## FEATURES AND OPTIONS



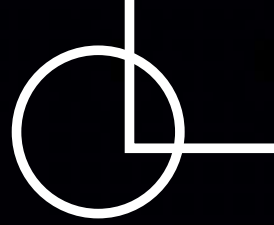
## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	20°
WIDE	43°
EXTRA WIDE	68°
ELLIPTICAL	9°x41°
WALL WASH	14° (16° incline) x37°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING



# JADE 16



A must for the finest outdoor accent lighting, JADE 16 houses sixteen high power RGBW LEDs, as well as in-built electronics and power supply unit. Providing a vibrant and brilliant colour palette from such a compact chassis, JADE 16 features functional efficiency and is capable of creating visual interest to specific architectural features or details, boosting their peculiarity with differently shaped optics outputs.



## TECHNICAL SPECIFICATIONS

16 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
0.4A @ 230V / 38W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards  
Aluminium body

IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# JADE 16

FAÇADE LIGHTING

## CODES

AL4050 JADE 16

<b>AL4050</b>	<b>NA</b>	<b>RW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical Wide

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## OPTION

**PE** Polar edition

## NOTES

Jade 16 must always be purchased with AL1321 Infrared Remote Control. More Jade 16 units can be controlled with one AL1321. On request, Jade 16 is available also in the CSA certified version.

## ACCESSORIES



AL4365 BARNDOOR



AL1321 INFRARED REMOTE CONTROL



AL4122 VISOR



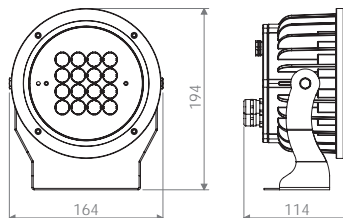
AL4123 SNOOT

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

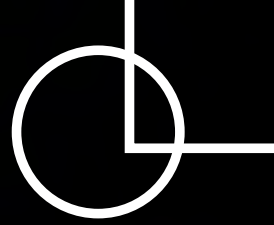
NARROW	13°
MEDIUM	29°
WIDE	40°
EXTRA WIDE	58°
ELLIPTICAL	12°x34°
ELLIPTICAL WIDE	29°x51°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING





A must for the finest outdoor accent lighting, JADE 9, a rounded compact spotlight featuring in-built electronics and power supply unit, creates visual interest to specific architectural features or details, boosting their peculiarity with differently shaped optics outputs.



## TECHNICAL SPECIFICATIONS

9 high brightness RGB power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Infrared remote control  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
0.2A @ 230V / 23W max  
EASY EDITION  
standard 100÷277V / 50-60Hz  
Power consumption:  
0.11A @ 230V / 25W max  
Electrical class: I  
Meets CE and CSA safety standards  
Aluminium body

IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal  
protection management  
**Easy Edition**, for budget restraint projects where  
DMX, colour changing, and dimming options are  
not specified, available on request.  
2.2 Kg  
EASY EDITION 2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# JADE 9

FAÇADE LIGHTING

## CODES

AL3420 JADE 9 RGB SPOT  
 AL3422 JADE 9 RGB NARROW  
 AL3424 JADE 9 RGB MEDIUM  
 AL3426 JADE 9 RGB WIDE  
 AL3428 JADE 9 RGB EXTRA WIDE  
 AL3430 JADE 9 RGB ELLIPTICAL  
 AL3432 JADE 9 RGB ELLIPTICAL WIDE

AL3440/60 JADE 9 CW/WW SPOT  
 AL3442/62 JADE 9 CW/WWNARROW  
 AL3444/64 JADE 9 CW/WW MEDIUM  
 AL3446/66 JADE 9 CW/WW WIDE  
 AL3448/68 JADE 9 CW/WW EXTRA WIDE  
 AL3450/70 JADE 9 CW/WW ELLIPTICAL  
 AL3452/72 JADE 9 CW/WW ELLIPTICAL WIDE

AL4354 JADE 9 EASY

## NOTES

Jade 9 must always be purchased with AL1321 Infrared Remote Control. More Jade 9 units can be controlled with one AL1321.  
 On request, Jade 9 is available also in the CSA certified version.  
 All code extensions of the EASY EDITION can be found on our website.

## ACCESSORIES



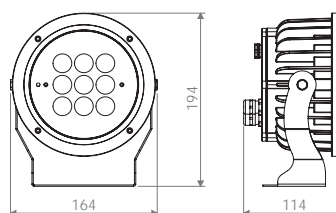
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	41°
EXTRA WIDE	68°
ELLIPTICAL	9°x41°
ELLIPTICAL WIDE	30°x38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING



 GRIVEN

# MICRO-CLIP MK2



MICRO-CLIP MK2 is an ultra compact spotlight that houses three high efficiency full colour LEDs. Wall-washing, spot lighting, interior and exterior decoration are part of a vast choice of applications enhanced by multiple beam angles options and full orientation pan and tilt mounting positions.



## TECHNICAL SPECIFICATIONS

### RGB VERSIONS

3 high brightness RGB full colour power LEDs units  
Continuously variable light intensity  
Remote DMX, automatic and Master-Slave control options via separate transformer box  
Power supply (transformer box):  
100÷240V / 50-60Hz  
Power consumption:  
10.8W  
Electrical class: III  
Separate transformer featuring self-resetting fuse protection  
Meets CE safety standards

DMX LED driver AL1861 powering up to 4 units, even independently (100÷240V / 50-60Hz)  
Full 360° orientation capability with adjustable bracket for surface mounting  
Aluminium body for both unit and separate transformer box  
IP65 for both unit and separate transformer box  
Operating temperature:  
-20°C to 40°C (-4°F to 104°F)  
0.65 Kg  
Separate transformer box: 4.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE

### WHITE LIGHT VERSIONS

3 high brightness white power LEDs unit  
Power supply: 100÷240VAC / 50-60Hz  
Power consumption:  
6.9W per unit with in-built power supply  
Electrical class: I  
Meets CE safety standards

Full 360° orientation capability with adjustable bracket for surface mounting  
Aluminium body  
IP65  
Operating temperature:  
-20°C to 40°C (-4°F to 104°F)  
0.65 Kg



# MICRO-CLIP MK2

FAÇADE LIGHTING

## CODES

AL2210 MICRO-CLIP MK2 RGB NARROW  
AL2212 MICRO-CLIP MK2 RGB MEDIUM  
AL2214 MICRO-CLIP MK2 RGB WIDE

AL2222/16 MICRO-CLIP MK2 CW/WW SPOT  
AL2224/18 MICRO-CLIP MK2 CW/WW NARROW  
AL2226/20 MICRO-CLIP MK2 CW/WW MEDIUM  
AL2227/21 MICRO-CLIP MK2 CW/WW WIDE  
AL2228/19 MICRO-CLIP MK2 CW/WW EXTRA WIDE  
AL2289/17 MICRO-CLIP MK2 CW/WW ELLIPTICAL  
AL2290/88 MICRO-CLIP MK2 CW/WW ELLIPTICAL WIDE

## NOTES

The RGB version requires an external power supply unit.  
The white version is fitted with integrated power supply unit and does not features DMX options.

## ACCESSORIES



AL4126 VISOR



AL4125 SNOOT



AL1861 IP65 SEPARATE TRANSFORMER BOX  
(only for RGB versions)

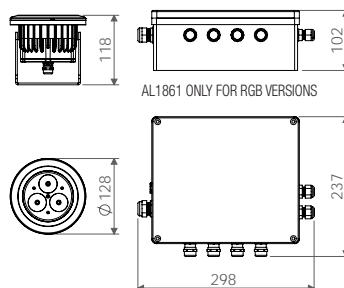
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

RGB		WHITE LIGHT	
NARROW	14°	SPOT	7°
MEDIUM	28°	NARROW	11°
WIDE	40°	MEDIUM	20°
		WIDE	44°x42°
		EXTRA WIDE	63°
		ELLIPTICAL	9°x41°
		ELLIPTICAL WIDE	20°x38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING



GRIVEN



# SATHURNNO



An ultra compact light fitting for spot lighting and wall grazing effects, SATHURNNO is a highly performing LED wall washer specifically designed for exterior applications in areas where in-ground installation is not possible or required. Suitable for pedestrian areas, its thin, yet robust chassis allows a comfortable ground positioning without compromising the installation ground or pavement.



## TECHNICAL SPECIFICATIONS

12 high brightness RGBW or white power LEDs unit  
 Continuously variable light intensity  
 DMX, automatic and Master-Slave mode  
 RDM function  
 Power supply:  
 RGBW versions: separate LED driver powering up to 3 units (IP65 AL4322 100÷277 Vac - 50-60 Hz or IP20 AL4326 24Vdc)  
 W versions : separate LED driver powering up to 1 unit (AL4324 120÷277 Vac - 50-60 Hz)  
 Power consumption:  
 21W max

Electrical class: III (separate LED driver required)  
 10m power supply cable included  
 Different cable lengths (up to 50 m) available on request  
 Separate LED driver featuring self-resetting fuse protection  
 Meets CE safety standards  
 Die cast aluminium body  
 Load bearing: 500 Kg  
 IP67  
 Operating temperature:  
 -40°C to 50°C (-40°F to 122°F)  
 Integrated electronic thermal protection management  
 1.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# SATHURNO

FAÇADE LIGHTING

## CODES

AL4320 SATHURNO

AL4320 NA RW

CODE + OPTICS + LED TYPE

## OPTICS

**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical Wide  
**WW** Wall wash

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white

## ACCESSORIES



**AL4322** IP65 DMX LED DRIVER



**AL4380** IP20 DMX-DALI CONVERTER  
 (only for W versions)



**AL4326** IP20 DMX LED DRIVER



**AL4324** IP20 DALI LED DRIVER  
 (only for W versions)

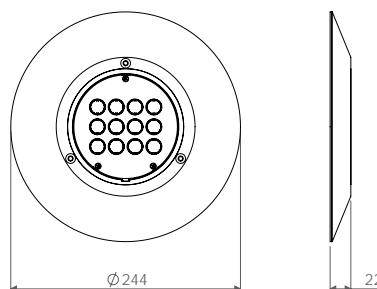
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

NARROW	12°
MEDIUM	27°
WIDE	51°
EXTRA WIDE	55°
ELLIPTICAL	34°x11°
ELLIPTICAL WIDE	30°x51°
WALL WASH	35° (13° incline) x106°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







FAÇADE LIGHTING



# LINEAR WALL GRAZING

These surface mount linear modules come with RGBW, RGB, white or monochrome LEDs configurations. The range flagships deliver amazing light output performances even on formerly prohibitive large-scale architectural elements. The mid-power models with more compact housings assure maximum design flexibility. Photometric diffusion efficiency with uniform colour coverage also on close-up installations gives effective wall grazing enhancement. In-built electronics and driver guarantee comfortable set up. Outdoor use IP rating, compact size and light weight ensure easy external placing. The digital control system is based on DMX512 protocol. Most of the products feature on board RDM function. Some fixtures are available in CSA certified versions.

LINEAR WALL GRAZING

# PARADE X-24 48



With a truly comfortable set-up guaranteed by the total absence of external power supply box, PARADE X-24 and 48 RGBW are available also in white LED configurations. Superb output with real uniform colour coverage even on close-up installations, especially on formerly prohibitive large-scale architectural elements, and the purposely conceived optics groups provide for truly powerful wall grazing enhancement. The stylish profile is complemented by the on board control panel offering instant and complete access over all digital functions.



## TECHNICAL SPECIFICATIONS

24 or 48 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX remote control  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
X-24 0.3A @ 230V / 58W max  
X-48 0.6A @ 230V / 115W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards  
Extruded aluminium body

IP67  
Operating temperature:  
-30°C to 50°C (-22°F to 122°F)  
Integrated electronic thermal protection management  
**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request.  
X-24: 2.8 Kg  
X-48: 4.5 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE X-24 48

LINEAR WALL GRAZING

## CODES

AL3250/3370/80/90 PARADE X-RGBW/CW/WW/DW-48 MEDIUM  
 AL3252/3372/82/92 PARADE X-RGBW/CW/WW/DW-48 WIDE  
 AL3254/3374/84/94 PARADE X-RGBW/CW/WW/DW-48 ELLIPTICAL  
 AL3256/3376/86/96 PARADE X-RGBW/CW/WW/DW-48 ELLIPTICAL WIDE  
 AL3258/3378/88/98 PARADE X-RGBW/CW/WW/DW-48 WALL WASH

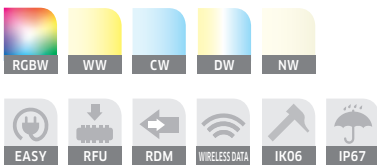
AL4060 PARADE X-48 EASY  
 AL4062 PARADE X-24 EASY

AL3820/30/40/50 PARADE X-RGBW/CW/WW/DW-24 MEDIUM  
 AL3822/32/42/52 PARADE X-RGBW/CW/WW/DW-24 WIDE  
 AL3824/34/44/54 PARADE X-RGBW/CW/WW/DW-24 ELLIPTICAL  
 AL3826/36/46/56 PARADE X-RGBW/CW/WW/DW-24 ELLIPTICAL WIDE  
 AL3828/38/48/58 PARADE X-RGBW/CW/WW/DW-24 WALL WASH

## NOTES

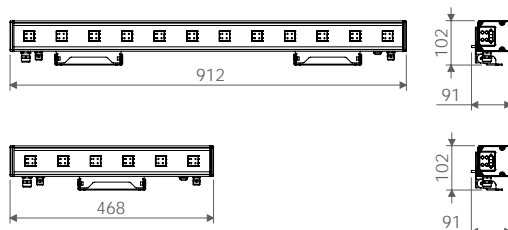
All code extensions of the EASY EDITION can be found on our website.  
 On request, Parade X-24 48 are available also in the CSA certified version.

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

MEDIUM	28°x38°
WIDE	45°
ELLIPTICAL	13°x67°
ELLIPTICAL WIDE	26°x91°
WALL WASH	37° (7° incline) x50°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









LINEAR WALL GRAZING

# PARADE X-18 36



PARADE X-18 and 36 RGB feature unquestionably powerful luminous flux with real uniform colour coverage even on close-up installations, especially on formerly prohibitive large-scale architectural elements. Available also in white LED configurations, these modular bars provide for truly powerful wall grazing enhancement. The combination of the 18 or 36 RGB LEDs featured and the photometric distribution efficiency offer an unprecedented astonishing light output quality. The stylish profile is complemented by the on board control panel offering instant and complete access over all digital functions.



## TECHNICAL SPECIFICATIONS

18 or 36 high brightness RGB or white power LEDs unit  
Continuously variable light intensity  
DMX , automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
X-18 0.2A @ 230V / 42W max  
X-36 0.4A @ 230V / 84W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Extruded aluminium body

IP67  
Operating temperature:  
-30°C to 50°C (-22°F to 122°F)  
Integrated electronic thermal protection management  
**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request.  
X-18: 2.8 Kg  
X-36: 4.5 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE X-18 36

LINEAR WALL GRAZING

## CODES

AL3230/AL3930/AL3940 PARADE X-RGB/CW/WW-36 SPOT  
 AL3232/AL3931/AL3941 PARADE X-RGB/CW/WW-36 NARROW  
 AL3234/AL3932/AL3942 PARADE X-RGB/CW/WW-36 MEDIUM  
 AL3236/AL3933/AL3943 PARADE X-RGB/CW/WW-36 WIDE  
 AL3242/AL3934/AL3944 PARADE X-RGB/CW/WW-36 EXTRA WIDE  
 AL3238/AL3935/AL3945 PARADE X-RGB/CW/WW-36 ELLIPTICAL  
 AL3240/AL3936/AL3946 PARADE X-RGB/CW/WW-36 ELLIPTICAL WIDE

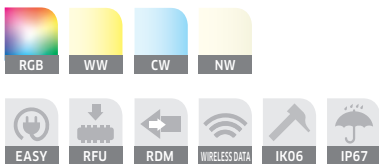
AL4056 PARADE-X 36 EASY  
 AL4058 PARADE X-18 EASY

AL3950/60/70 PARADE X-RGB/CW/WW-18 SPOT  
 AL3951/61/71 PARADE X-RGB/CW/WW-18 NARROW  
 AL3952/62/72 PARADE X-RGB/CW/WW-18 MEDIUM  
 AL3953/63/73 PARADE X-RGB/CW/WW-18 WIDE  
 AL3954/64/74 PARADE X-RGB/CW/WW-18 EXTRA WIDE  
 AL3955/65/75 PARADE X-RGB/CW/WW-18 ELLIPTICAL  
 AL3956/66/76 PARADE X-RGB/CW/WW-18 ELLIPTICAL WIDE

## NOTES

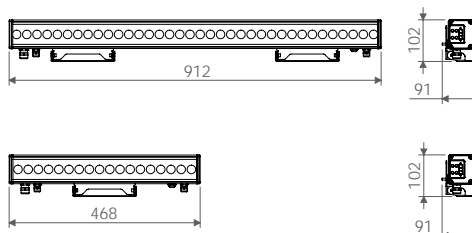
All code extensions of the EASY EDITION can be found on our website.

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	8°
NARROW	11°
MEDIUM	21°
WIDE	42°
EXTRA WIDE	71°
ELLIPTICAL	10°X41°
ELLIPTICAL WIDE	21°X38°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE

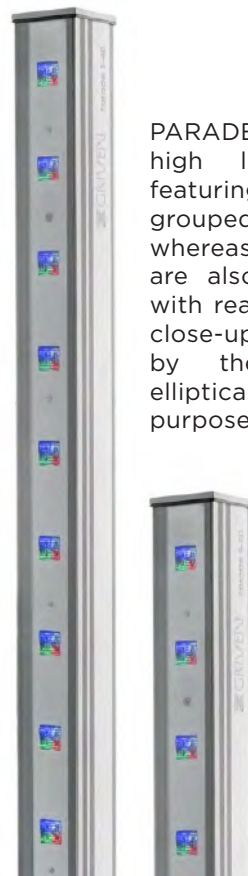






LINEAR WALL GRAZING





PARADE S is a modular and adjustable high luminance linear module featuring 20, 40 or 60 RGBW LEDs grouped in clusters of 4 LEDs each, whereas white LED configurations are also available. Superb output with real uniform coverage even on close-up installations is provided by the specifically conceived elliptical and elliptical wide optics purposely designed for true wall washing effects. The outstandingly powerful luminous flux tops the standard range of similar products available on the market and a truly comfortable set up is guaranteed by the total absence of external power supply box requirement.



## TECHNICAL SPECIFICATIONS

20, 40 or 60 high brightness RGBW or white power LEDs units  
 Continuously variable light intensity  
 DMX remote control  
 Remote firmware update (RFU)  
 RDM function  
 Infrared remote control  
 Power supply:  
 standard 100÷240V / 50-60Hz  
 Power Consumption:  
 S-RGBW-20 0.17A @ 230V / 28W max  
 S-RGBW-40 0.35A @ 230V / 49W max  
 S-RGBW-60 0.45A @ 230V / 72W max  
 Electrical class: I  
 Self-resetting fuse protection

Meets CE and CSA safety standards  
 Extruded aluminium body  
 IP67  
 Operating temperature:  
 -40°C to 50°C (-40°F to 122°F)  
 Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
 S-20: 2.7 Kg  
 S-40: 4.5 Kg  
 S-60: 6 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE S-20 40 60

LINEAR WALL GRAZING

## CODES

AL2585/87/90 PARADE S-RGBW-20/40/60 MEDIUM  
 AL2554/64/74 PARADE S-RGBW-20/40/60 WIDE  
 AL2558/68/78 PARADE S-RGBW-20/40/60 ELLIPTICAL  
 AL2580/84/88 PARADE S-RGBW-20/40/60 ELLIPTICAL WIDE  
 AL2582/86/89 PARADE S-RGBW-20/40/60 WALL WASH

AL3114/24/34 PARADE S-CW-20/40/60 MEDIUM  
 AL3110/20/30 PARADE S-CW-20/40/60 WIDE  
 AL3111/21/31 PARADE S-CW-20/40/60 ELLIPTICAL  
 AL3112/22/32 PARADE S-CW-20/40/60 ELLIPTICAL WIDE  
 AL3113/23/33 PARADE S-CW-20/40/60 WALL WASH

AL3119/29/39 PARADE S-WW-20/40/60 MEDIUM  
 AL3115/25/35 PARADE S-WW-20/40/60 WIDE  
 AL3116/26/36 PARADE S-WW-20/40/60 ELLIPTICAL  
 AL3117/27/37 PARADE S-WW-20/40/60 ELLIPTICAL WIDE  
 AL3118/28/38 PARADE S-WW-20/40/60 WALL WASH

AL3160/65/70 PARADE S-DW-20/40/60 MEDIUM  
 AL3161/66/71 PARADE S-DW-20/40/60 WIDE  
 AL3162/67/72 PARADE S-DW-20/40/60 ELLIPTICAL  
 AL3163/68/73 PARADE S-DW-20/40/60 ELLIPTICAL WIDE  
 AL3164/69/74 PARADE S-DW-20/40/60 WALL WASH

## NOTES

On request, Parade S is available also in the CSA certified version.  
 The Polar Edition can be ordered by adding PE to the code.

Parade S must always be purchased with AL1321 Infrared Remote Control. More units of Parade S can be controlled with one AL1321.

## ACCESSORIES



AL4333 BARNDOOR FOR PARADE S-20  
 AL4337 BARNDOOR FOR PARADE S-40  
 AL4341 BARNDOOR FOR PARADE S-60



AL4330 SNOOT FOR PARADE S-20  
 AL4334 SNOOT FOR PARADE S-40  
 AL4338 SNOOT FOR PARADE S-60



AL4331 VISOR FOR PARADE S-20  
 AL4335 VISOR FOR PARADE S-40  
 AL4339 VISOR FOR PARADE S-60



AL1321 INFRARED REMOTE CONTROL

## FEATURES AND OPTIONS

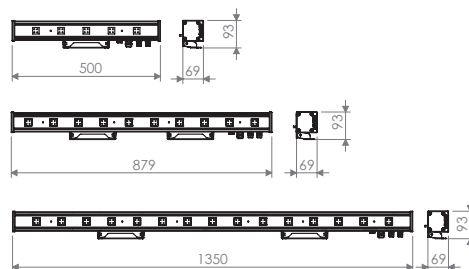


\*PARADE S-RGBW-20  
 \*\* PARADE S-RGBW-40/60



## BEAM ANGLE REFERENCE

MEDIUM	27°x39°
WIDE	45°
ELLIPTICAL	14°x55°
ELLIPTICAL WIDE	37°x109°
WALL WASH	18° (6° incline) x 47°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









LINEAR WALL GRAZING



# PARADE C-18 36



Designed for true wall grazing effects, PARADE C 18 and 36 are surface mount linear RGB LED modules available also in white LED configurations. The combination of the 18 or 36 RGB LEDs featured and the superb photometric distribution efficiency offer an unprecedented astonishing light output quality. Beside comfortable set up guaranteed by integrated power supply, compact size and light weight manageability, a combination of competitive technical features and price makes this modular bar the ideal choice for lower budget solutions.



## TECHNICAL SPECIFICATIONS

18 or 36 high brightness RGB or white power LEDs units  
 Continuously variable light intensity  
 Remote firmware update (RFU)  
 DMX, automatic and Master-Slave mode  
 Infrared remote control  
 RDM function  
 Power supply:  
 100÷240V / 50-60Hz  
 Power consumption:  
 C-18 0.2A @ 230V / 21W max at full intensity  
 C-36 0.35A @ 230V / 40W max at full intensity  
 Electrical class: I  
 Self-resetting fuse protection  
 Meets CE safety standards  
 Extruded aluminium body

IP67  
 Operating temperature:  
 -40°C to 50°C (-40°F to 122°F)  
 Integrated electronic thermal protection management  
 C-18: 2.4 Kg  
 C-36: 4.8 Kg

IK08\*\*

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE C-18 36

LINEAR WALL GRAZING

## CODES

AL4378 PARADE C-18  
AL4379 PARADE C-36

**AL4378** **SP** **RG**

CODE	+ OPTICS	+ LED TYPE
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## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra Wide  
**EL** Elliptical  
**WL** Elliptical wide  
**WW** Wall wash

## LED TYPE

**RG** RGB  
**CW** Cold white  
**WW** Warm white

## NOTES

Parade C must always be purchased with AL1321 Infrared Remote Control. More units of Parade C can be controlled with one AL1321.

## ACCESSORIES



AL1321 INFRARED REMOTE CONTROL

## FEATURES AND OPTIONS



\* PARADE C-18

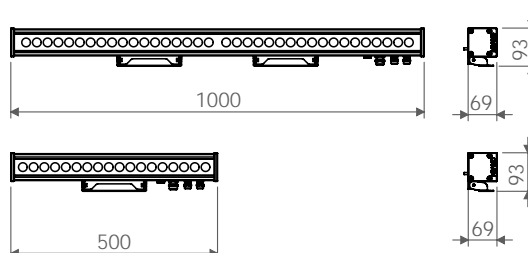
\*\* PARADE C-36



## BEAM ANGLE REFERENCE

SPOT	8°
NARROW	11°
MEDIUM	21°
WIDE	42°
EXTRA WIDE	71°
ELLIPTICAL	10°x40°
ELLIPTICAL WIDE	21°x38°
WALL WASH	13° (5° incline) x 37°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







LINEAR WALL GRAZING



# PARADE D-RGB-510



Designed for refined wall grazing effects, the Parade D-RGB series, featuring 5 or 10 high efficiency RGB full colour LEDs and a comprehensive selection of optics groups, offers an array of innovative and cost efficient outdoor and indoor lighting solutions. Benefiting from an IP67 protection rate, compact size and lightweight manageability, these high performance modular bars can be easily installed in any position and orientation.



## TECHNICAL SPECIFICATIONS

5 or 10 high brightness RGB full colour power LEDs units  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
D-RGB-5 0.15A @ 230V / 20W max  
D-RGB-10 0.3A @ 230V / 40W max  
Electrical class: I  
Self-resetting fuse protection  
Integrated electronic thermal protection management  
Meets CE safety standards

Extruded aluminium body  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
D-RGB-5: 2.8 Kg  
D-RGB-10: 4.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE D-RGB-5 10

LINEAR WALL GRAZING

## CODES

AL2310 PARADE D-RGB-5 NARROW  
 AL2312 PARADE D-RGB-5 MEDIUM  
 AL2314 PARADE D-RGB-5 WIDE  
 AL2316 PARADE D-RGB-5 ELLIPTICAL

AL2300 PARADE D-RGB-10 NARROW  
 AL2302 PARADE D-RGB-10 MEDIUM  
 AL2304 PARADE D-RGB-10 WIDE  
 AL2306 PARADE D-RGB-10 ELLIPTICAL

## FEATURES AND OPTIONS

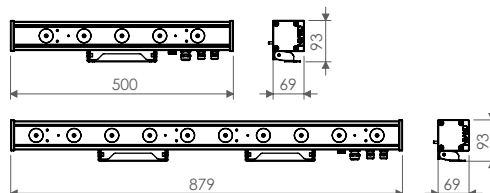


\*PARADE D-RGB-5  
 \*\*PARADE D-RGB-10



## BEAM ANGLE REFERENCE

	D-RGB-5	D-RGB-10
NARROW	18°x27°	15°x40°
MEDIUM	28°x36°	28°x46°
WIDE	39°x45°	35°x52°
ELLIPTICAL	20°x57°	15°x59°

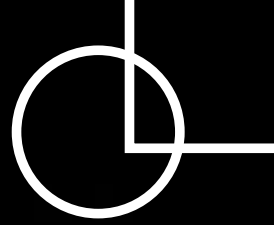


PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









LINEAR WALL GRAZING





A smart solution for the widest variety of outdoor architectural lighting applications such as accent, effect and landscape lighting, the technologically advanced PARADE D-W MK3 linear modules series features 6, 9 or 12 high brightness white light LED sources. Available both in warm and cold white light, these robust and durable modular bars are capable of offering an impressive light emission performance where digital control, colour changing and dimming options are not project requisites.



## TECHNICAL SPECIFICATIONS

6, 9 or 12 high brightness white power LEDs units  
Power supply:  
100÷277V / 50-60Hz  
Power consumption:  
D-W-6 0.08A @ 230V / 18W max  
D-W-9 0.13A @ 230V / 25W max  
D-W-12 0.15A @ 230V / 32W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Extruded aluminium body  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)

D-W-6: 2.4 Kg  
D-W-9: 4.8 Kg  
D-W-12: 6 Kg



# PARADE D-W-6 9 12 MK3

LINEAR WALL GRAZING

## CODES

AL4426 PARADE D-W-6 MK3  
AL4427 PARADE D-W-9 MK3  
AL4428 PARADE D-W-12 MK3

AL4426	SP	CW
CODE	+ OPTICS	+ LED TYPE

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical wide  
**WW** Wall wash

## LED TYPE

**CW** Cold white  
**WW** Warm white

## ACCESSORIES



**AL4342** SNOOT FOR PARADE D-W-6 MK3  
**AL4346** SNOOT FOR PARADE D-W-9 MK3  
**AL4350** SNOOT FOR PARADE D-W-12 MK3



**AL4345** BARNDOOR FOR PARADE D-W-6 MK3  
**AL4349** BARNDOOR FOR PARADE D-W-9 MK3  
**AL4353** BARNDOOR FOR PARADE D-W-12 MK3



**AL4343** VISOR FOR PARADE D-W-6 MK3  
**AL4347** VISOR FOR PARADE D-W-9 MK3  
**AL4351** VISOR FOR PARADE D-W-12 MK3

## FEATURES AND OPTIONS



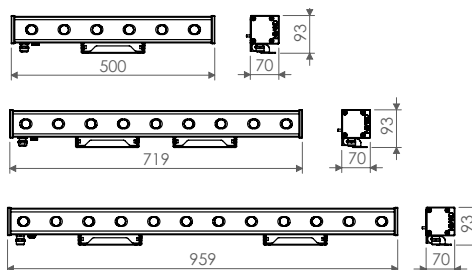
\*PARADE D-W-6/9 MK3  
\*\*PARADE D-W-12 MK3



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	44°
EXTRA WIDE	73°
ELLIPTICAL	10°x40°
ELLIPTICAL WIDE	21°x38°
WALL WASH	19° (5° incline) x 38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







LINEAR WALL GRAZING

# microPARADE 12 24 36



MicroPARADE RGBW is an extremely compact modular bar, ideal for wall grazing effects owing to its specifically developed modular optics groups. Available with 12, 24 or 36 new generation mid-power LEDs, this linear profile delivers optimal efficacy and reliability beside a richer alternative of intense and bright colour hues. Housing in-built electronics and power supply unit, its lightweight chassis allows comfortable outdoor installations on balconies, windows or façades where a reduced mounting space drastically limits the range of suitable products.



## TECHNICAL SPECIFICATIONS

12, 24 or 36 RGBW or white mid-power LEDs unit  
Continuously variable light intensity  
DMX and automatic mode  
Remote firmware update (RFU)  
RDM function  
Power supply:  
100÷240V / 50-60Hz  
Power consumption:  
microPARADE 12: 0.11A @ 230V / 11W ca.  
microPARADE 24: 0.17A @ 230V / 19W ca.  
microPARADE 36: 0.23A @ 230V / 28W ca.  
12 EASY: 0.11A @ 230V / 11W ca.  
24 EASY: 0.17A @ 230V / 19W ca.  
36 EASY: 0.23A @ 230V / 28W ca.

Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Extruded aluminium body  
IP67  
Operating temperature:  
-20°C to 50°C (-4°F to 122°F)  
Integrated electronic thermal protection management  
**Easy Edition**, for budget restraint projects where DMX, colour changing, and dimming options are not specified, available on request  
microPARADE 12: 1.3 Kg  
microPARADE 24: 2.2 Kg  
microPARADE 36: 2.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# microPARADE

## 12 24 36

LINEAR WALL GRAZING

### CODES

AL4362 microPARADE 12  
AL4363 microPARADE 24  
AL4364 microPARADE 36

AL4440 microPARADE 12 EASY  
AL4441 microPARADE 24 EASY  
AL4442 microPARADE 36 EASY

AL4362	EL	RW	01
CODE	+ OPTICS	+ LED TYPE	+ OPTION

### OPTICS

**EL** Elliptical  
**WW** Wall Wash

### LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

### OPTION

- 01 Fitted with in and out DMX and power cables
- 02 Fitted with in and out DMX and power cables and connectors

### NOTES

The Easy Edition is available only in warm and cold white colour temperature (monochrome on request).

### ACCESSORIES



**AL4400 01** IP67 START LINE BOX  
(with cables)  
**AL4400 02** IP67 START LINE BOX  
(with cables and connectors)



**AL4401 01** IP67 REPOWER BOX  
(with cables)  
**AL4401 02** IP67 REPOWER BOX  
(with cables and connectors)



**AL4418** LINE END CAP



**AL4463** POWER CABLE  
Only for Easy Edition



**AL2090RT** DMX TERMINATOR



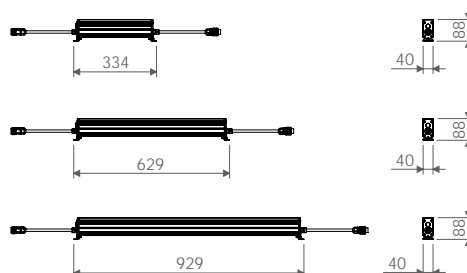
**AL2630** 1 m CONNECTION CABLE  
**AL2631** 2 m CONNECTION CABLE  
**AL2632** 3 m CONNECTION CABLE  
**AL2633** 5 m CONNECTION CABLE  
**AL2634** 10 m CONNECTION CABLE

### FEATURES AND OPTIONS



### BEAM ANGLE REFERENCE

ELLIPTICAL WIDE 35°x93°  
WALL WASH 23° (5° incline) x 98°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





QATAR\_Al Daayen Celebration Hall Complex







LINEAR WALL GRAZING





# RECESSED APPLICATIONS

ROUND SHAPED FIXTURES

Dynamically blending with many different architectural environments, these cutting-edge in-ground mounting round shaped uplighters boast an extraordinarily functional light output. Available also with full-colour LEDs, this portfolio of efficient RGBW or RGB solutions features alternatively white or monochrome LEDs versions for full design adaptability. Flexible planning is further enhanced by a wide choice of high build design optics making the range ideal for spot lighting and wall grazing with uniform colour coverage purposely on close-up installations. With a 2000 Kg deadweight capacity featured by almost all the fittings, this series is suitable for recessed applications even in vehicular areas. The IP67 rating guarantees robust and enduring exterior installation.

RECESSED APPLICATIONS

# DUNE MC



Fitted with strikingly powerful full colour LEDs and featuring a smart beam angle orientation adjustment, DUNE MC is an IP67 highly performing LED fixture ideal for spot lighting and wall grazing in exterior recessed applications. The 2000 Kg deadweight load capacity makes it suitable for ground mounting applications even in vehicular areas.



## TECHNICAL SPECIFICATIONS

6 high brightness RGBW full colour, CW or DW power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
0.4A @ 230V / 45W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Die cast aluminium body finished with corrosion resistant paint

Anti-slip treatment available on request  
Beam angle orientation of +/- 10° (tilt)  
90° orientation capability (pan)  
Load bearing: 2000 Kg  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
6.8 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# DUNE MC

RECESSED APPLICATIONS

## CODES

AL4008/18/28 DUNE MC RGBW/CW/DW SPOT  
AL4010/20/30 DUNE MC RGBW/CW/DW NARROW  
AL4012/22/32 DUNE MC RGBW/CW/DW MEDIUM  
AL4014/24/34 DUNE MC RGBW/CW/DW WIDE

## NOTES

Dune MC must always be purchased with AL1321 Infrared Remote Control. More Dune MC units can be controlled with one AL1321. The Polar Edition can be ordered by adding PE to the code. Optics codes remain unchanged.

## ACCESSORIES



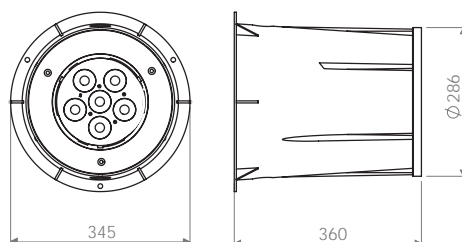
AL1321 INFRARED REMOTE CONTROL

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	10°
MEDIUM	23°
WIDE	35°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS

# DUNE MK2



DUNE MK2, with its IP67 rating, is a highly performing LED light fitting specifically designed for exterior recessed applications. The 2000 Kg deadweight load capacity makes this fixture suitable for ground mounting applications even in vehicular areas. DUNE MK2 also features beam angle orientation adjustment.



## TECHNICAL SPECIFICATIONS

20 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
RGBW 0.27A @ 230V / 29W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Die cast aluminium body

Anti-slip treatment available on request  
Beam angle orientation of +/- 10° (tilt)  
90° orientation capability (pan)  
Load bearing: 2000 Kg  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
6.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# DUNE MK2

RECESSED APPLICATIONS

## CODES

AL 4850 DUNE MK2

AL4850	SP	RW
CODE	+ OPTICS	+ LED TYPE

## OPTICS

- SP** Spot
- NA** Narrow
- ME** Medium
- WI** Wide
- EW** Extra wide
- EL** Elliptical
- WL** Elliptical wide

## LED TYPE

- RW** RGBW
- CW** Cold white
- WW** Warm white
- DW** Dynamic white

## NOTES

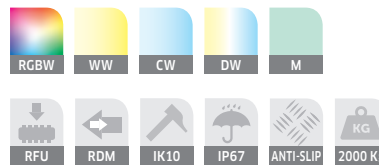
Dune MK2 must always be purchased with AL1321 Infrared Remote Control. More Dune MK2 units can be controlled with one AL1321.

## ACCESSORIES



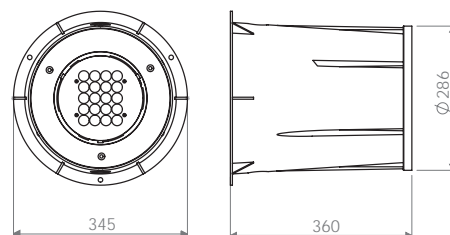
AL1321 INFRARED REMOTE CONTROL

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

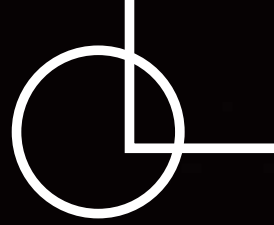
SPOT	7°
NARROW	12°
MEDIUM	21°
WIDE	43°
EXTRA WIDE	66°
ELLIPTICAL	11x40°
ELLIPTICAL WIDE	20x40°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS





# RUBY MC R



Featuring shallow recessed depth for a comfortable in-ground installation, RUBY MC R is a highly performing colour changer, fitted with strikingly powerful full colour LEDs, specifically designed for exterior recessed applications. This compact IP67 rated light fitting features a 2000 Kg deadweight load capacity that makes it suitable for ground mounting applications even in vehicular areas.



## TECHNICAL SPECIFICATIONS

6 high brightness RGBW full colour or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷277V 50-60Hz  
Power consumption:  
0.26A@230V / 58W max  
Electrical class: I  
Self-resetting fuse protection  
Integrated electronic thermal protection management

Meets CE and CSA safety standards  
Aluminium and stainless steel body  
Anti-slip treatment available on request  
Load bearing: 2000 Kg  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
**Polar Edition**, featuring an integrated de-icing system with electrically heated glass, available on request.  
5 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# RUBY MC R

RECESSED APPLICATIONS

## CODES

AL4990 RUBY MC R

<b>AL4990</b>	<b>SP</b>	<b>CW</b>	<b>PE</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**DW** Dynamic white

## OPTION

**PE** Polar edition

## NOTES

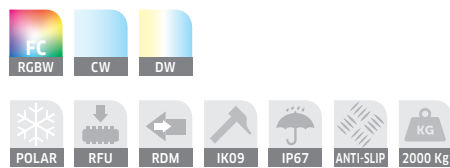
Ruby MC R must always be purchased with AL1321 Infrared Remote Control. More Ruby MC R units can be controlled with one AL1321. On request, Ruby MC R is available also in the CSA certified version.

## ACCESSORIES



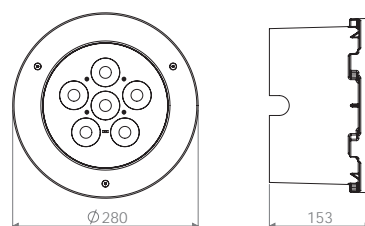
AL1321 INFRARED REMOTE CONTROL

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

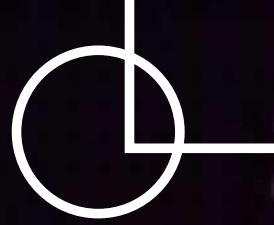
SPOT	7°
NARROW	10°
MEDIUM	23°
WIDE	34°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS

# RUBY R



Featuring shallow recessed depth for a comfortable in-ground installation, RUBY R is a highly performing LED fixture specifically designed for exterior recessed applications. This compact IP67 rated light fitting features a 2000 Kg deadweight load capacity that makes it suitable for ground mounting applications even in vehicular areas.



## TECHNICAL SPECIFICATIONS

20 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
RDM function  
Infrared remote control  
Power supply:  
standard 100÷277V / 50-60Hz  
Power consumption:  
0.17A@230V / 36W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE and CSA safety standards  
Aluminium and stainless steel body

Anti-slip treatment available on request  
Load bearing: 2000 Kg  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
4.6 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# RUBY R

RECESSED APPLICATIONS

## CODES

AL4992 RUBY R

**AL4992** | **SP** | **RW**

CODE | + OPTICS | + LED TYPE

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**EL** Elliptical  
**WL** Elliptical wide  
**WW** Wall wash

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## NOTES

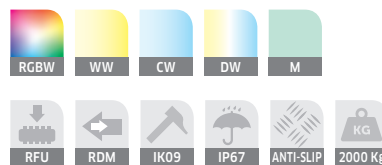
Ruby R must always be purchased with AL1321 Infrared Remote Control. More Ruby R units can be controlled with one AL1321. On request, Ruby R is available also in the CSA certified version.

## ACCESSORIES



AL1321 INFRARED REMOTE CONTROL

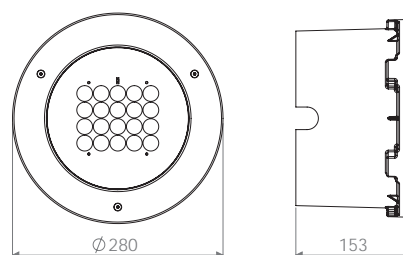
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	43°
EXTRA WIDE	69°
ELLIPTICAL	9°x41°
ELLIPTICAL WIDE	20°x38°
WALL WASH	14° (16° incline) x 37°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS





# MICRO-DUNE MK2



Fitted with high brightness full colour LEDs, MICRO-DUNE MK2 is a super compact IP67 rated uplighter specifically engineered for exterior recessed use in pedestrian areas. Delivering a distinctive light output for directive application or decorative lighting patterns creation, it harmoniously blends with the surrounding architectural environment providing discreetly essential solutions.



## TECHNICAL SPECIFICATIONS

### RGB VERSIONS

3 high brightness RGB full colour power LEDs units  
Continuously variable light intensity  
Remote DMX, automatic and Master-Slave control options via separate transformer box  
Power supply (transformer box):  
100÷240V / 50-60Hz  
Power consumption:  
10.8W per unit  
Electrical class: III  
Separate transformer featuring self-resetting fuse protection  
Meets CE safety standards

DMX LED driver AL1861 powering up to 4 units, even independently (100÷240V / 50-60Hz)  
Aluminium case and stainless steel (AISI 316) flange  
IP67  
Separate transformer box: IP65  
Operating temperature:  
-20°C to 40°C (-4°F to 104°F)  
1.7 Kg  
Separate transformer box: 4.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE

### WHITE LIGHT VERSIONS

3 high brightness white power LEDs unit  
Power supply: 100÷240VAC / 50-60Hz  
Power consumption:  
6.9W per unit with in-built power supply  
Electrical class: I  
Meets CE safety standards

Full 360° orientation capability with adjustable bracket for surface mounting  
Aluminium body  
IP65  
Operating temperature:  
-20°C to 40°C (-4°F to 104°F)  
0.65 Kg



# MICRO-DUNE MK2

RECESSED APPLICATIONS

## CODES

AL2230 MICRO-DUNE MK2 RGB NARROW  
AL2232 MICRO-DUNE MK2 RGB MEDIUM  
AL2234 MICRO-DUNE MK2 RGB WIDE

AL2242/36 MICRO-DUNE MK2 CW/WW SPOT  
AL2244/38 MICRO-DUNE MK2 CW/WW NARROW  
AL2246/40 MICRO-DUNE MK2 CW/WW MEDIUM  
AL2247/41 MICRO-DUNE MK2 CW/WW WIDE  
AL2248/39 MICRO-DUNE MK2 CW/WW EXTRA WIDE  
AL2293/91 MICRO-DUNE MK2 CW/WW ELLIPTICAL  
AL2294/92 MICRO-DUNE MK2 CW/WW ELLIPTICAL WIDE

## ACCESSORIES



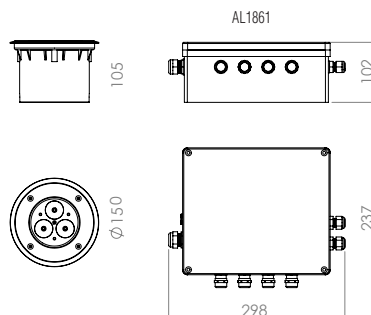
**AL1861** IP65 SEPARATE TRANSFORMER BOX  
(for RGB versions)

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

RGB		WHITE	
NARROW	14°	SPOT	7°
MEDIUM	28°	NARROW	11°
WIDE	40°	MEDIUM	20°
		WIDE	38°
		EXTRA WIDE	68°
		ELLIPTICAL	10°x39°
		ELLIPTICAL WIDE	20°x38°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS





ATHOMO



ATHOMO is a recessed walk-on LED uplight for exterior and interior use delivering a distinctive light output for directive application or decorative lighting patterns creation. Available in IP67 and IP68 versions featuring stainless steel flange and scratch-resistant glass, this discreetly essential solution enhances durable dynamic interaction with the surrounding architectural environment and functional orientation signalling.



## TECHNICAL SPECIFICATIONS

1 high brightness RGB full colour or white power LED unit

Electrical specifications:

RGB

Medium and wide photometric distribution lenses

350mA / 3.6W

Separate 350mA DMX power supply powering up to 8 units 36W 220÷240VAC (AL2882)

WHITE LIGHT

Narrow, medium and wide photometric distribution lenses 500mA / 1.7W

Separate 500mA constant current power supply (2÷3 units) 6W 220÷240VAC (AL2705)

Separate 500mA constant current power supply (4÷11 units) 20W 220÷240VAC (AL2704)

Separate 500mA constant current power supply (4÷14 units) 24W 220÷240VAC dimmable 0÷10V or by button (AL2703)

Meets CE safety standards

Electrical class: III

IP67: Aluminium case and AISI 316L stainless steel flange

IP68 (-1m): AISI 316L stainless steel case and flange

Easy mounting system with formwork

Operating temperature:

-20°C to 40°C (-4°F to 104°F)

0.12 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# ATHOMO

RECESSED APPLICATIONS

## CODES

AL2942 ATHOMO RGB (IP67)  
AL2946 ATHOMO RGB (IP68)

**AL2942**   **OM**   **RG**

CODE   + OPTICS   + LED TYPE

AL2940 ATHOMO W (IP67)  
AL2944 ATHOMO W (IP68)

## OPTICS

**OM** Medium  
**OW** Wide

## OPTICS

**ON** Narrow  
**OM** Medium  
**OW** Wide

## LED TYPE

**RG** RGB

## LED TYPE

**TC** 6300K Cold white  
**TW** 3000K Warm white

## ACCESSORIES

### FOR RGB VERSIONS



**AL2882** IP20 RGB DMX POWER SUPPLY  
SIZE 225x60x36mm - 36W

### FOR WHITE LIGHT VERSIONS



**AL2703** IP20 CONSTANT CURRENT  
POWER SUPPLY - SIZE 180x32x32mm - 24W



**AL2704** IP20 CONSTANT CURRENT  
POWER SUPPLY - SIZE 165x40x25mm - 20W



**AL2705** IP20 CONSTANT CURRENT  
POWER SUPPLY - SIZE 74x35x21mm - 6W

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

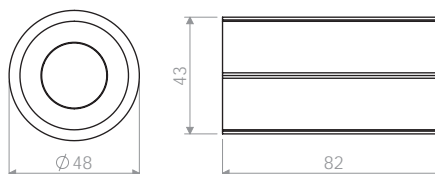
### RGB

MEDIUM 21°  
WIDE 48°

### WHITE

NARROW 7°  
MEDIUM 15°  
WIDE 33°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS



# RECESSED APPLICATIONS

LINEAR MODULES

Dynamically blending with many different architectural environments, these cutting-edge in-ground mounting modular bars boast an extraordinarily functional light output. Available also with full-colour LEDs, this portfolio of efficient RGBW or RGB recessed linear modules alternatively features white or monochrome LEDs versions for full design adaptability. Entirely suitable for applications in pedestrian areas, this series provides ideal solutions for wall grazing effects with even colour coverage purposely on close-up installations, as well as linear profiles for the creation of uniform visual pattern layouts in pathways, parks, gardens and other public or private areas. The IP67 rating guarantees robust and enduring exterior installation.

RECESSED APPLICATIONS



# PARADE S-20 40 R



Delivering superb output and real uniform colour coverage purposely on close-up installations, PARADE S-20 and 40 RECESSED are modular, super flux, high luminance recessed linear LED modules that, featuring an IP67 weather protection along with a compact size and a light weight manageability, are suitable for in-ground use in pedestrian areas. A truly comfortable set up is guaranteed by the total absence of external power supply box requirement.



## TECHNICAL SPECIFICATIONS

20 or 40 high brightness RGBW or white power LEDs units  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
S-20 R 0.17A @ 230V / 28W max  
S-40 R 0.35A @ 230V / 49W max  
Electrical class: I  
Self-resetting fuse protection  
Integrated electronic thermal protection management  
Meets CE and CSA safety standards

Extruded aluminium body and stainless steel flange and formwork  
Anti-slip treatment available on request  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
S-20 R: 5.1 Kg  
S-40 R: 8.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE S-20 40 R

RECESSED APPLICATIONS

## CODES

AL3555/50 PARADE S-RGBW-20/40 R MEDIUM  
 AL3556/51 PARADE S-RGBW-20/40 R WIDE  
 AL3557/52 PARADE S-RGBW-20/40 R ELLIPTICAL  
 AL3558/53 PARADE S-RGBW-20/40 R ELL. WIDE  
 AL3559/54 PARADE S-RGBW-20/40 R WALL WASH

AL3545/35 PARADE S-WW-20/40 R MEDIUM  
 AL3546/36 PARADE S-WW-20/40 R WIDE  
 AL3547/37 PARADE S-WW-20/40 R ELLIPTICAL  
 AL3548/38 PARADE S-WW-20/40 R ELL. WIDE  
 AL3549/39 PARADE S-WW-20/40 R WALL WASH

AL3540/30 PARADE S-CW-20/40 R MEDIUM  
 AL3541/31 PARADE S-CW-20/40 R WIDE  
 AL3542/32 PARADE S-CW-20/40 R ELLIPTICAL  
 AL3543/33 PARADE S-CW-20/40 R ELLIPTICAL WIDE  
 AL3544/34 PARADE S-CW-20/40 R WALL WASH

AL3565/60 PARADE S-DW-20/40 R MEDIUM  
 AL3566/61 PARADE S-DW-20/40 R WIDE  
 AL3567/62 PARADE S-DW-20/40 R ELLIPTICAL  
 AL3568/63 PARADE S-DW-20/40 R ELL. WIDE  
 AL3569/64 PARADE S-DW-20/40 R WALL WASH

## NOTES

Parade S units must always be purchased with one AL1321 Infrared Remote Control to set their DMX address.  
 On request, Parade S-20 40 R are available also in the CSA certified version.

## ACCESSORIES



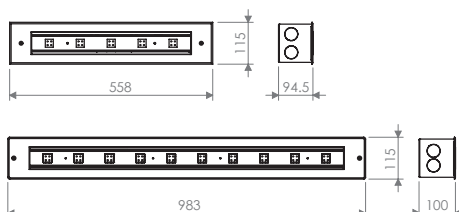
AL1321 INFRARED REMOTE CONTROL

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

MEDIUM	27x39°
WIDE	45°
ELLIPTICAL	14°x55°
ELLIPTICAL WIDE	38°x109°
WALL WASH	18° (6° incline) x 48°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









RECESSED APPLICATIONS



# PARADE MK3 D-RGB-5 10 R



Designed for refined architectural decoration, PARADE MK3 D-RGB-5 and 10 RECESSED are IP67 super flux and high luminance LED modules specific for recessed use in pedestrian areas. Lighting design requisites will benefit from these modular bars housing high efficiency full colour LEDs and delivering superb output with real uniform colour coverage even on close-up installations.



## TECHNICAL SPECIFICATIONS

5 or 10 high brightness RGB full colour power LEDs units  
Continuously variable light intensity  
DMX, automatic and Master-Slave mode  
Remote firmware update (RFU)  
Power supply:  
standard 100÷240V / 50-60Hz  
Power consumption:  
D-RGB-5 MK3 R 0.12A @ 230V / 22W max  
D-RGB-10 MK3 R 0.3A @ 230V / 40W max  
Electrical class: I  
Self-resetting fuse protection  
Integrated electronic thermal protection management  
Meets CE safety standards

Extruded aluminium and stainless steel body  
Anti-slip treatment available on request  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
D-RGB-5 MK3 R: 5 Kg  
D-RGB-10 MK3 R: 8.9 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE MK3 D-RGB-5 10 R

RECESSED APPLICATIONS

## CODES

AL3512 PARADE MK3 D-RGB-5 R MEDIUM  
AL3516 PARADE MK3 D-RGB-5 R WALL WASH

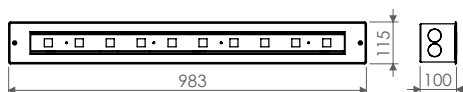
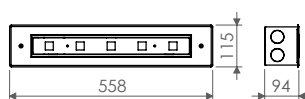
AL3522 PARADE MK3 D-RGB-10 R MEDIUM  
AL3526 PARADE MK3 D-RGB-10 R WALL WASH

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

MEDIUM 28x47°  
WALL WASH 27° (8° incline) x 50°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







RECESSED APPLICATIONS

# PARADE MK2 D-W-5 11 R



Featuring an IP67 weather protection along with a compact size and a light weight manageability, PARADE D-W-5 and 11 RECESSED MK2 are high quality linear LED modules for recessed use in outdoor pedestrian areas. The bright white light LED sources, either warm or cold, that these fixtures are fitted with, coupled with the most effective lenses, give an incredibly homogeneous daylight white output. A truly comfortable set up is guaranteed by the total absence of external power supply box requirement.



## TECHNICAL SPECIFICATIONS

5 or 11 high brightness white power LEDs units  
Power supply:  
100÷277V / 50-60Hz  
Power consumption:  
D-W-5 R 0.07A @ 230V / 15W max  
D-W-11 R 0.15A @ 230V / 29W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Extruded aluminium body  
Anti-slip treatment available on request  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
D-W-5 R: 5.0 Kg  
D-W-11 R: 8.6 Kg



# PARADE MK2

## D-W-5 11 R

RECESSED APPLICATIONS

### CODES

AL4429 PARADE MK2 D-W-5 R  
AL4430 PARADE MK2 D-W-11 R

AL4429	SP	CW
CODE	+ OPTICS	+ LED TYPE

### OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WI** Wide  
**EW** Extra wide  
**WW** Wall wash  
**EL** Elliptical  
**WL** Elliptical wide

### LED TYPE

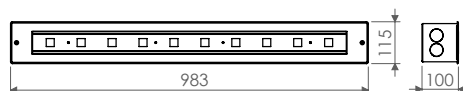
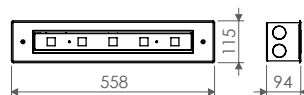
**CW** Cold white  
**WW** Warm white

### FEATURES AND OPTIONS



### BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	44°
EXTRA WIDE	73°
WALL WASH	19° (5° incline) x 38°
ELLIPTICAL	10°x40°
ELLIPTICAL WIDE	21°x38°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









RECESSED APPLICATIONS



# MOLED 25 50



MOLED 25 and 50 are thin line, in-ground LED profiles that, featuring an IP67 weather protection along with a compact size and a light weight manageability, are suitable for use in pedestrian areas. The ideal solution for pathways, parks, gardens and other public as well as private areas, more MOLED 25 or 50 modules, with a density of 50 full colour LEDs per metre, can be comfortably set-up with invariable pixel pitch for a uniform visual pattern layout also with angle installations.



## TECHNICAL SPECIFICATIONS

25 or 50 high brightness RGB full colour or white LEDs modules  
 Continuously variable light intensity  
 DMX remote control  
 Self-addressing feature for digital data assignment with signal regeneration or RDM (on request)  
 Remote firmware update (RFU)  
 RDM function  
 LED density per metre: 50  
 Power supply: 48Vdc  
 Power Consumption:  
 18 W/m  
 EASY EDITION 18 W/m  
 Power chain max:  
 16 Moled 25 with 185W power supply (AL4450)

8 Moled 50 with 185W power supply (AL4450)  
 Electrical class: III  
 Meets CE safety standards  
 AISI 316L stainless steel housing  
 Available modules length: 506/1006 mm  
 IP67  
 Operating temperature:  
 -40°C to 50°C (-40°F to 122°F)  
 Integrated electronic thermal protection management  
**Easy Edition**, for budget restraint projects where  
 DMX, colour changing, and dimming options are not specified, available on request.  
 MoLED 25: 4.3 Kg (formwork included)  
 MoLED 50: 8.6 Kg (formwork included)

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# MOLED 25 50

RECESSED APPLICATIONS

## CODES

AL4369 Moled 25  
AL4370 Moled 50

<b>AL4369</b>	<b>GO</b>	<b>CW</b>	<b>S</b>
CODE	+ OPTICS	+ LED TYPE	+ OPTION

## OPTICS

**GO** Opaline glass

## OPTION

**S** Self-addressing  
**R** RDM

## LED TYPE

**RG** RGB  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## CODES

AL4371 Moled 25 EASY  
AL4372 Moled 50 EASY

<b>AL4371</b>	<b>GO</b>	<b>CW</b>
CODE	+ OPTICS	+ LED TYPE

## OPTICS

**GO** Opaline glass

## LED TYPE

**CW** Cold white  
**WW** Warm white  
**NW** Natural white  
**RE** Red  
**GR** Green  
**BL** Blue  
**AM** Amber

## ACCESSORIES



**AL2121** IP67 START LINE BOX  
**AL2122** IP67 REPOWER BOX



**AL4453** LINE END CAP



**AL4462** ELBOW ARRAY FIXING



**AL4454** FORMWORK END CAP



**AL2013** 0,5 m CONNECTION CABLE  
**AL2012** 1 m CONNECTION CABLE  
**AL2015** 2 m CONNECTION CABLE  
**AL2017** 3 m CONNECTION CABLE  
**AL2019** 10 m CONNECTION CABLE

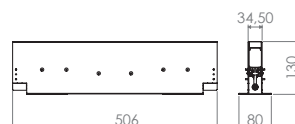


**AL4450** ELECTRONIC DRIVER



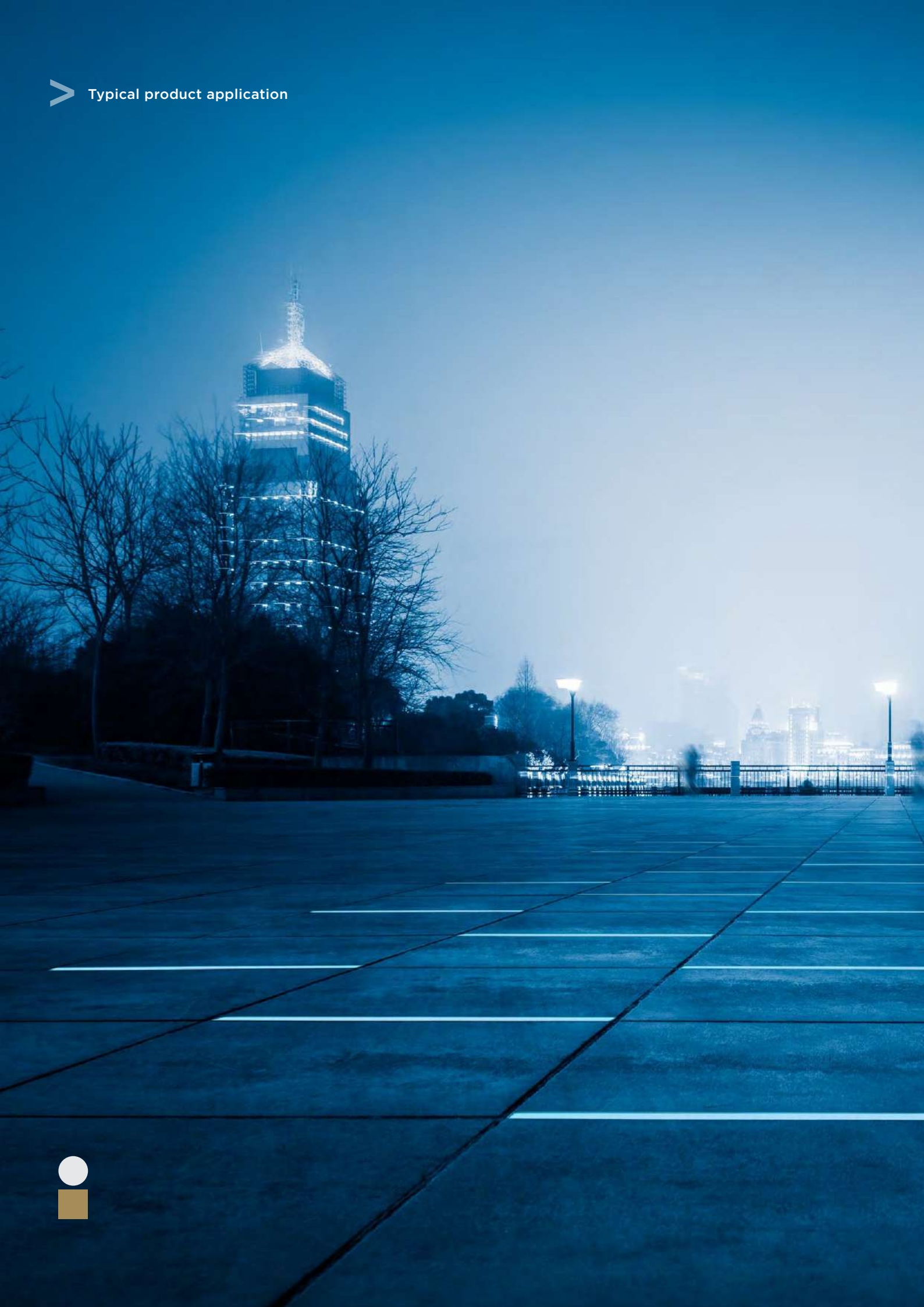
**AL4473** DMX TERMINATOR  
(for RDM versions)

## FEATURES AND OPTIONS



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE

> Typical product application





RECESSED APPLICATIONS





# DECORATIVE AND ACCENT LIGHTING

The different solutions of this series enhance several features of many architectural elements. Ultra thin linear profiles, delivering colour changing or white light wall grazing effect, can easily be installed outdoor on façades where reduced mounting space drastically limits the range of suitable products. Decorative lighting on curved walls or other bending surfaces is ensured by the flexible version of these profiles. Colour changing or white light graphic shapers highlight inner frames or outer edges of windows, balconies or repeating architectural elements creating boundless accent lighting solutions. Colour changing or white light wall mount diffusers offer eye-catching accent and wall grazing effect.



DECORATIVE AND ACCENT LIGHTING



# nanoPARADE



nanoPARADE is an ultra compact aluminium linear profile available in RGB, cold, warm and dynamic white LED configurations. Featuring extreme thinness, in-built DMX driver and light weight manageability, nanoPARADE is the ideal solution for easy outdoor installation on balconies, windows or façades where a reduced mounting space drastically limits the range of suitable products. With an optimal light output efficacy, different length choices and a density of 50 LEDs per metre, more units can comfortably be set-up for creative wall grazing effect with invariable pixel pitch for a uniform visual layout.



## TECHNICAL SPECIFICATIONS

RGB and white mid-power LEDs unit  
50 LEDs/m  
Continuously variable light intensity  
1-100% electronic dimming facility  
DMX, automatic and Master-Slave mode  
RDM function  
Power supply:  
24Vdc  
Power consumption:  
RGB 0.6 A/m, 14.4 W/m  
Electrical class: III  
Meets CE safety standards  
Extruded anodized aluminium body  
IP67  
Operating temperature:  
-10°C to 50°C (14°F to 122°F)

Integrated electronic thermal protection management  
nanoPARADE 320 mm: 0.2 Kg  
nanoPARADE 620 mm: 0.4 Kg  
nanoPARADE 1220 mm: 0.8 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# nanoPARADE

DECORATIVE AND ACCENT LIGHTING

## CODES

AL4484 nanoPARADE

AL4484 03 RG A A S

CODE | + LENGTH | + LED TYPE | + 3 OPTIONS

## LENGTH

**03** 320 mm  
**06** 620 mm  
**12** 1200 mm

## LED TYPE

**RG** RGB  
**WW** Warm white  
**CW** Cold white  
**DW** Dynamic white

## OPTIONS

**A** Active  
**P** Passive

**A** In and out power and DMX cables and connectors  
**B** In and out power and DMX cables

**S** Standard fixing  
**L** With fixing bracket

## ACCESSORIES



AL4487 START LINE



AL4487/1 CONNECTION KIT



AL4487/2  
IP67 POWER SUPPLY UNIT 120 W



AL4487/3 DMX TERMINATOR



AL4487/4 METAL COVER



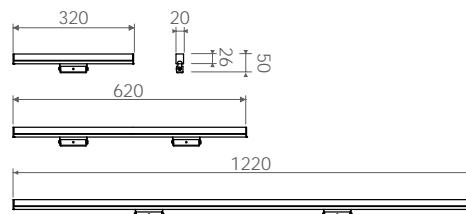
AL4487/6  
DALI POWER SUPPLY UNIT 150 W

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

ALL VERSIONS 120°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE



> Typical product application





DECORATIVE AND ACCENT LIGHTING

# nanoPARADE TB



Available with RGB, cold, warm and dynamic white LED configurations, nanoPARADE TB is a thin flexible linear module suitable for outdoor use. Featuring a number of different length choices, optimal diffusion and efficient light output, more units can be integrated consecutively within curved façades or other bending surfaces for decorative lighting effect with invariable pixel pitch for a uniform visual layout.



## TECHNICAL SPECIFICATIONS

High brightness RGB and white LEDs unit  
Continuously variable light intensity  
1-100% electronic dimming facility  
DMX, automatic and Master-Slave mode  
RDM function  
Power supply:  
24Vdc  
Power consumption:  
RGB 0.6 A/m, 14.4 W/m  
Electrical class: III  
Meets CE safety standards  
Extruded silicone body  
IP68  
IP67 (version with connectors)

Operating temperature:  
-10°C to 70°C (14°F to 158°F)  
Integrated electronic thermal protection  
management  
0.33 Kg/m

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# nanoPARADE TB

DECORATIVE AND ACCENT LIGHTING

## CODES

AL4485 nanoPARADE TB

<b>AL4485</b>	<b>01</b>	<b>RG</b>	<b>A A O</b>
CODE	+ LENGTH	+ LED TYPE	+ 3 OPTIONS

## LENGTH

<b>01</b> 206 mm	<b>08</b> 906 mm
<b>02</b> 306 mm	<b>09</b> 1006 mm
<b>03</b> 406 mm	<b>10</b> 2006 mm
<b>04</b> 506 mm	<b>11</b> 3006 mm
<b>05</b> 606 mm	<b>12</b> 4006 mm
<b>06</b> 706 mm	<b>13</b> 5006 mm
<b>07</b> 806 mm	

## LED TYPE

<b>RG</b>	RGB
<b>WW</b>	Warm white
<b>CW</b>	Cold white
<b>DW</b>	Dynamic white

## OPTIONS

<b>A</b> Active	<b>A</b> In and out power and DMX cables and connectors	<b>O</b> Opaline diffuser
<b>P</b> Passive	<b>B</b> In and out power and DMX cables	<b>T</b> Transparent diffuser

## ACCESSORIES



AL4487 START LINE



AL4487/1 CONNECTION KIT



AL4487/2 IP67 POWER SUPPLY UNIT 120 W

## FEATURES AND OPTIONS

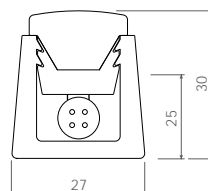


\*VERSION WITH CONNECTORS



## BEAM ANGLE REFERENCE

ALL VERSIONS 120°

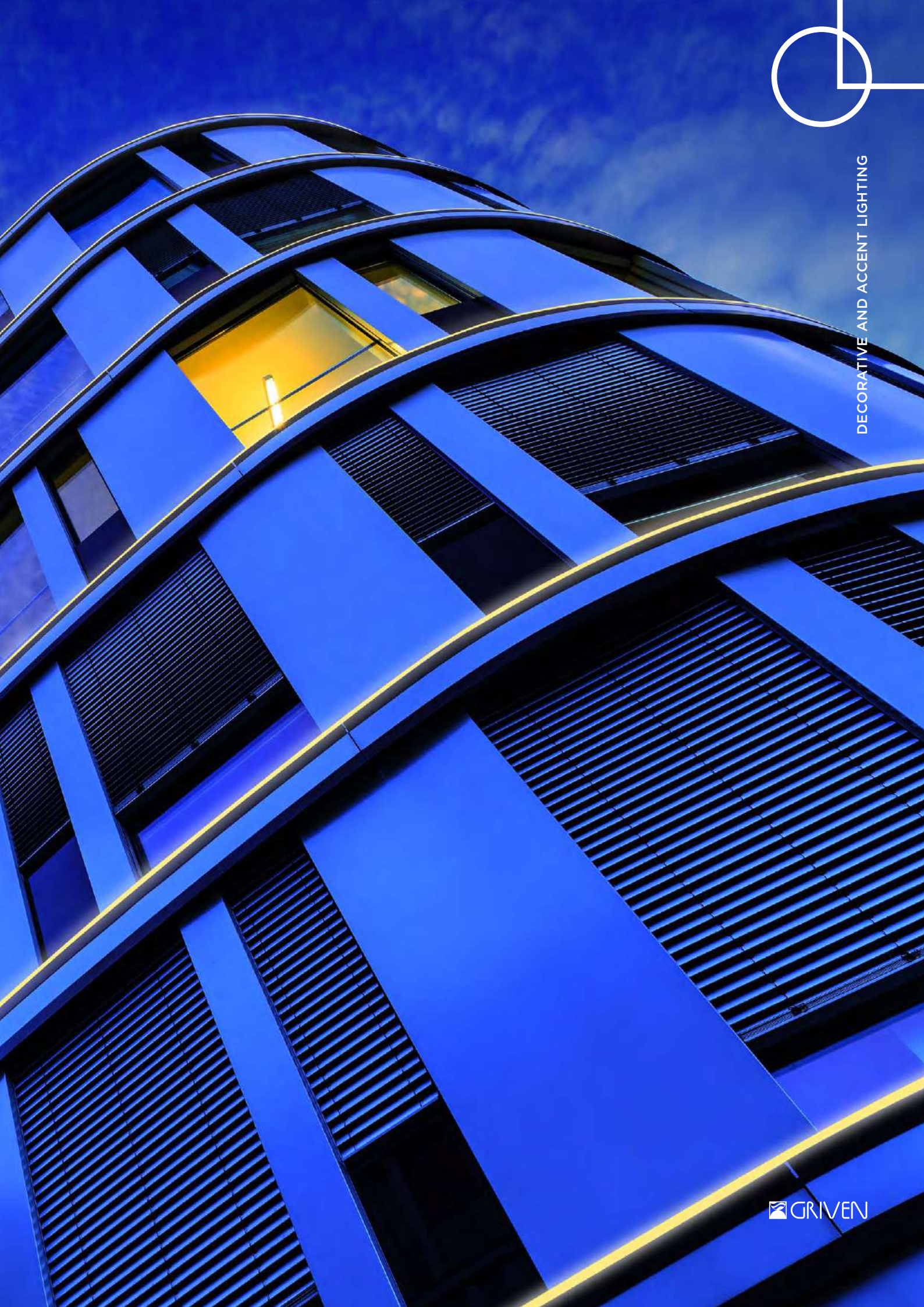


PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE



> Typical product application





DECORATIVE AND ACCENT LIGHTING



# EKLIPSE



Designed for specific applications on windowsills, EKLIPSE is an LED graphic light shaper, which highlights inner frames or outer edges of windows, balconies or repeating architectural elements, while designing appealing optical effects on buildings façades and creating boundless accent lighting solutions.



## TECHNICAL SPECIFICATIONS

4 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX mode  
Remote firmware update (RFU)  
RDM function (not available when on self-addressing mode)  
Power supply:  
48V DC  
Power consumption:  
0.2A @ 230V / 10W max  
Electrical class: III  
Meets CE safety standards

Aluminium body  
IP66  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
1 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# EKLIPSE

DECORATIVE AND ACCENT LIGHTING

## CODES

AL4373 EKLIPSE

AL4373 | EL | RW | S

CODE | + OPTICS | + LED TYPE | + OPTION

## OPTICS

**EL** Elliptical

## LED TYPE

**RW** RGBW  
**CW** Cold white  
**WW** Warm white  
**DW** Dynamic white

## OPTION

**S** Self-addressing  
**R** RDM

## ACCESSORIES



AL4421 ANTIGLARE SHIELD



AL4405 01 ELECTRONIC DRIVER (with cables)



AL4424 01 START LINE BOX (with cables)



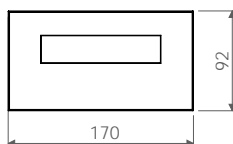
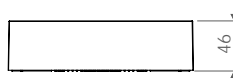
AL4425 01 REPOWER BOX (with cables)

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

ELLIPTICAL 13°x127°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE

> Typical product application





DECORATIVE AND ACCENT LIGHTING



# ORPHEO



Featuring 12 or 24 LEDs and cubical or cylindrical housings, ORPHEO S and R are wall-mount diffusers whose single (downwards) or double (downwards and upwards) vertical light shafts provide elegant accent lighting effects. Digitally controlled RGBW, monochrome or white LEDs configurations, combined with different optics choices, give maximum chromatic adaptability. The double light shaft versions, on request, can feature independent LED and optics configurations combined with fully autonomous control of each LED cluster, enhancing absolute design flexibility. The integrated electronic driver guarantees comfortable set-up.



## TECHNICAL SPECIFICATIONS

12 or 24 high brightness RGBW or white power LEDs unit  
DMX  
RDM function  
Self-addressing feature for digital data assignment with signal regeneration  
Power supply:  
110÷240V / 50-60 Hz  
Power consumption:  
Single emission 0.17 A @230V / 18W max  
Double emission 0.33 A @230V / 36W max  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards

Extruded and die-cast aluminum housing  
IP66  
Operating temperature:  
-30°C to 50°C (-22°F to 122°F)  
Orpheo R:  
Single emission 3.8 Kg  
Double emission 4.0 Kg  
Orpheo S:  
Single emission 4.0 Kg  
Double emission 4.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# ORPHEO

DECORATIVE AND ACCENT LIGHTING

## CODES

AL4860 ORPHEO S SINGLE EMISSION  
AL4862 ORPHEO S DOUBLE EMISSION

AL4864 ORPHEO R SINGLE EMISSION  
AL4866 ORPHEO R DOUBLE EMISSION

## OPTICS

**SP** Spot  
**NA** Narrow  
**ME** Medium  
**WE** Wide

## LED TYPE

**RW** RGBW  
**WW** Warm white  
**CW** Cold white  
**DW** Dynamic white  
**M** Monochrome

AL4860 OS RW

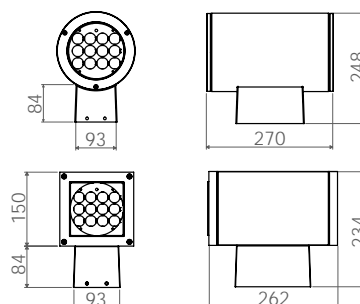
CODE + OPTICS + LED TYPE

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	12°
MEDIUM	21°
WIDE	43°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





day Inn Holiday Inn



DECORATIVE AND ACCENT LIGHTING







# MULTIMEDIA PIXEL LIGHTING

Engineered for multimedia single pixel applications, these RGB, monochromatic or white light fixtures offer a broad choice of versatile solutions for the creation of dynamic, life inspirational visual concepts. A comprehensive range of fully weatherized LED surface mount and recessed modular single spot units and linear profiles, feature remote software update, self addressing assignment and instant, independent control over each pixel. Such technologically advanced products, with terrific application flexibility, can screen low resolution video files or graphic patterns, utterly transforming architectural spaces and, when combined with other media, generating a brand new interactive entertainment.



MULTIMEDIA PIXEL LIGHTING



# GRAPH-i-CELL



Fitted with a dome shaped 180° opaline diffuser for a sharp image rendition and an optimal peripheral visibility, this high brightness single pixel fixture can be easily assembled with other units of its kind to screen low resolution video files and graphic patterns. GRAPH-i-CELL can be integrated with the existing architecture or stage back drop while shaping a brand new outstanding ambience.



## TECHNICAL SPECIFICATIONS

6 high brightness RGB or white, 4 high brightness RGBW, dynamic white or monochrome power LEDs modules  
Continuously variable light intensity  
DMX mode  
RDM function  
Self-addressing feature for digital data assignment with signal regeneration  
20 modules per line maximum  
Remote firmware update (RFU)  
Luminance: 11200 cd/m<sup>2</sup>  
Pixel pitch: 130 mm (minimum)  
Resolution: 49 pixel/m<sup>2</sup> (maximum)  
Separate IP65 electronic driver box (AL2079 for max. 20 units) 100÷277V / 50-60 Hz

LED module 48V DC  
Power consumption:  
13W maximum (1 module full RGB)  
Electrical class: III  
Meets CE and CSA safety standards  
Aluminium and opaline polymer body  
IP65  
Operating temperature:  
-30°C to 40°C (-22°F to 104°F)  
LED module: 0.52 Kg  
Electronic driver: 3.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# GRAPH-i-CELL

MULTIMEDIA PIXEL LIGHTING

## CODES

AL4505 GRAPH-i-CELL RGB

AL4505	DO	RG	01 S
CODE	+ OPTICS	+ LED TYPE	+ 2 OPTIONS

## OPTICS

**DO** Opaline dome

## LED TYPE

**RG** RGB  
**CW** Cold white  
**WW** Warm white

## OPTIONS

**02** In and out power and DMX connectors  
**S** Self-addressing  
**R** RDM

## CODES

AL4506 GRAPH-i-CELL RGBW

AL4506	DO	RW	01 S
CODE	+ OPTICS	+ LED TYPE	+ 2 OPTIONS

## OPTICS

**DO** Opaline dome

## LED TYPE

**RW** RGBW  
**DW** Dynamic white

## OPTIONS

**02** In and out power and DMX connectors  
**S** Self-addressing  
**R** RDM

## NOTES

On request, Graph-i-cell is available also in the CSA certified version.

## ACCESSORIES



**AL4424 02** IP67 START LINE BOX  
**AL4425 02** IP67 REPOWER BOX



**AL4405 02** IP67 ELECTRONIC DRIVER



**AL4418** LINE END CAP



**AL4196** GDATA INTERFACE



**AL4396** 1 m CONNECTION CABLE  
**AL4397** 2 m CONNECTION CABLE  
**AL4398** 3 m CONNECTION CABLE  
**AL4399** 10 m CONNECTION CABLE

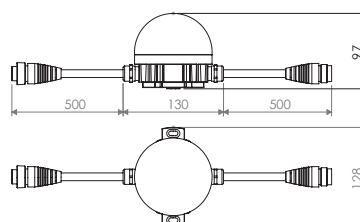


**AL2090RT** DMX TERMINATOR

## FEATURES AND OPTIONS



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





AZERBAIJAN\_Heydar Aliyev Sports and Exhibition Complex, Baku





MULTIMEDIA PIXEL LIGHTING



# GRAPH-I-CORE



Graph-i-Core is a single pixel fixture equipped with a 180° dome-shaped opaline diffuser and in-built electronic driver. Its compact body, with full 360° orientation capability, is also available with adjustable bracket for comfortable surface mounting. Offering a sharp image rendition and an optimal peripheral visibility, Graph-i-Core can be easily assembled with other units of its kind to screen low resolution video files and graphic patterns.



## TECHNICAL SPECIFICATIONS

3 high brightness RGB, white or monochromatic power LEDs module  
Continuously variable light intensity  
DMX mode  
Self-addressing feature for digital data assignment with signal regeneration  
Max. distance between modules: 300m  
Remote firmware update (RFU)  
Luminance: 2962 cd/m<sup>2</sup>  
Pixel pitch: 130 mm (minimum)  
Resolution: 49 pixel/m<sup>2</sup> (maximum)  
Power supply:  
100÷240V VAC / 50-60 Hz  
Power consumption:  
0.062A @ 230V / 5.6W (1 module at full intensity)

Electrical class: I  
Meets CE safety standards  
Aluminium and opaline polymer body  
Standard adjustable mounting yoke included or custom version on request  
IP65  
Operating temperature:  
-25°C to 50°C (-13°F to 122°F)  
Integrated electronic thermal protection management  
1 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# GRAPH-i-CORE

MULTIMEDIA PIXEL LIGHTING

## CODES

AL2115 GRAPH-i-CORE

AL2115 **RG**

CODE | + LED TYPE

## LED TYPE

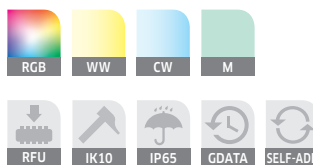
**RG** RGB  
**CW** Cold white  
**WW** Warm white

## ACCESSORIES

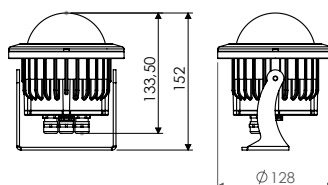


AL4196 GDATA INTERFACE

## FEATURES AND OPTIONS



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





BAKU





MULTIMEDIA PIXEL LIGHTING





# GRAPH-I-SPOT 12120



Available either with a spot or a dome shaped opaline diffuser, Graph-i-Spot is a super compact LED spot unit that can be easily assembled with other units of its kind to screen low resolution video files and graphic patterns. Graph-i-Spot can easily blend with outdoor and indoor environments, getting integrated with the existing architecture or stage backdrop while shaping a brand new outstanding ambience.



## TECHNICAL SPECIFICATIONS

1 high brightness RGB power full colour, white or monochrome LED module  
 Continuously variable light intensity  
 DMX remote control  
 16 modules per line maximum  
 Remote firmware update (RFU)  
 Pixel pitch: 70 mm (minimum)  
 Resolution: 196 pixel/m<sup>2</sup> (maximum)  
 Luminance:  
 Graph-i-Spot 12 600,000 cd/m<sup>2</sup>  
 Graph-i-Spot 120 77,000 cd/m<sup>2</sup>  
 Self-addressing feature for digital data assignment with signal regeneration IP65  
 separate electronic driver powering up to 16 units maximum (AL2118)  
 Power supply:  
 Electronic driver 100±277VAC / 50-60Hz

LED module 24V DC  
 Power consumption:  
 RGB 6W maximum (1 module at full intensity)  
 W 3.5W maximum (1 module at full intensity)  
 Electrical class: III  
 Meets CE safety standards  
 Anodized aluminium and glass (Graph-i-Spot 12)  
 Anodized aluminium and polycarbonate (Graph-i-Spot 120 - standard with opaline optics, on request with transparent optics)  
 IP65  
 Separate transformer box: IP67  
 Operating temperature:  
 -40°C to 50°C (-40°F to 122°F)  
 Graph-i-Spot 12: 0.22 Kg  
 Graph-i-Spot 120: 0.20 Kg  
 Electronic driver: 1.9 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# GRAPH-i-SPOT 12 120

MULTIMEDIA PIXEL LIGHTING

## CODES

AL2010 GRAPH-i-SPOT 12 RGB  
AL2070 GRAPH-i-SPOT 12 CW  
AL2071 GRAPH-i-SPOT 12 WW

AL2011 GRAPH-i-SPOT 120 RGB  
AL2072 GRAPH-i-SPOT 120 CW  
AL2074 GRAPH-i-SPOT 120 WW

## NOTES

Each Graph-i-Spot must always be purchased with power and data connection cables.

## ACCESSORIES



AL2116 IP67 START LINE BOX



AL2117 IP67 REPOWER BOX



AL2118 IP67 ELECTRONIC DRIVER



AL4196 GDATA INTERFACE



AL4453 LINE END CAP



AL2013 0,5 m CONNECTION CABLE  
AL2012 1 m CONNECTION CABLE  
AL2015 2 m CONNECTION CABLE  
AL2017 3 m CONNECTION CABLE  
AL2019 10 m CONNECTION CABLE

## FEATURES AND OPTIONS

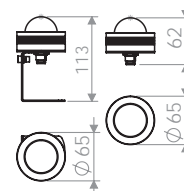
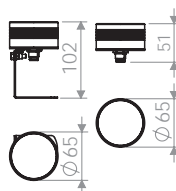


\*Graph-i-Spot 12

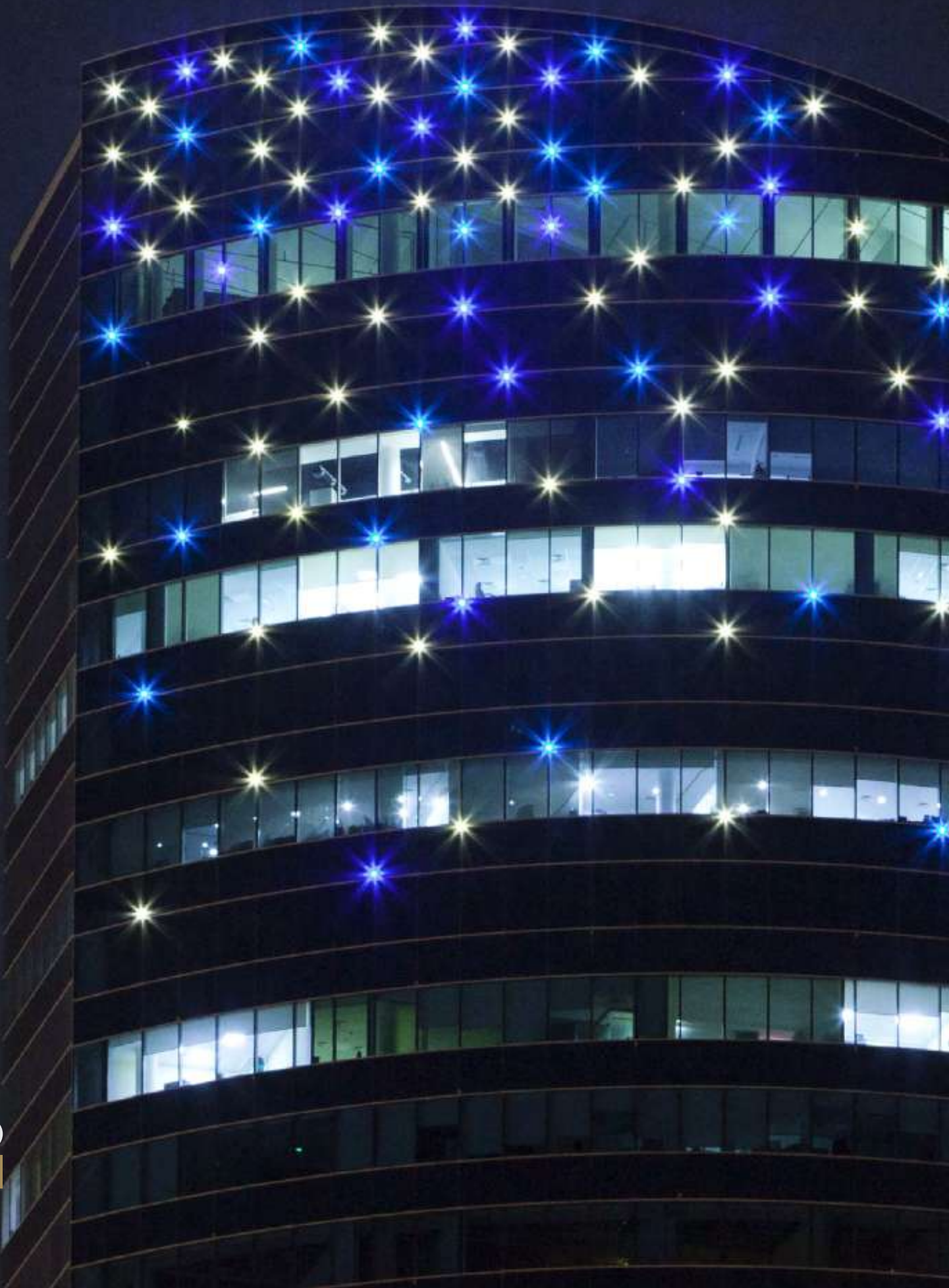


GRAPH-i-SPOT 12

GRAPH-i-SPOT 120



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





MULTIMEDIA PIXEL LIGHTING



GRAPH-i-DOT is an ultra compact module fitted with 6 mid-power full colour LEDs for ultra luminous spot light performances. Graph-i-Dot is the ideal solution to screen low resolution video files and graphic patterns. Graph-i-Dot can accept, via DMX interface, any graphic, video or still image coming from a DVI media server and the configuration system can then store and trigger the show to a striking visual effect. The IP68 weather protection rating allows under water use.



#### TECHNICAL SPECIFICATIONS

6 mid-power, RGB, white or monochrome LEDs module  
Continuously variable light intensity  
IP65 separate electronic driver  
Power supply:  
Electronic driver 100±277V / 50-60Hz  
LED module 24V DC  
Power consumption:

1.44 W (max intensity)  
Electrical class: III  
Meets CE safety standards  
Transparent plastic body  
IP68 (-20m max.)  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE







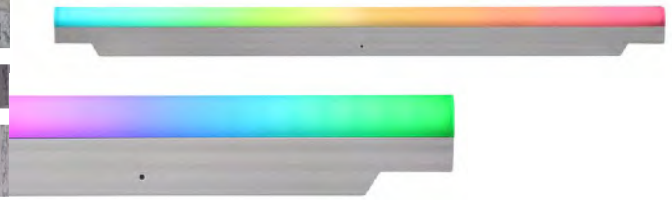




MULTIMEDIA PIXEL LIGHTING



# GRAPH-I-LINE



Graph-i-Line 20 and 40 enable an endless layout of patterns and graphics display with an optimal pixel resolution. These very high impact waterproof LED bars, featuring integrated driver, are capable of reproducing almost any visual concept, screening video-footage or displaying a boundless layout of graphic patterns. The independent control of each LED is enhanced by a choice of either a clear or an opaline diffuser for a direct view optical selection.



## TECHNICAL SPECIFICATIONS

20 or 40 high brightness, independent, RGB full colour LEDs unit  
Continuously variable light intensity  
Pixel pitch: 25x40 mm (minimum)  
Resolution: 1600 pixel /m2 (maximum)  
DMX remote control  
Remote firmware update (RFU)  
Self-addressing feature for digital data assignment with signal regeneration  
Powers supply: 48Vdc  
Power consumption: 18W/m  
Power chain max:  
32 Graph-i-Line 20 with 320W power supply (AL4405 02)  
16 Graph-i-Line 40 with 320W power supply (AL4405 02)

Electrical class: III  
Meets CE and CSA safety standards  
Extruded aluminium body and PC opaline or transparent tube with UV protection  
IP66  
Operating temperature  
-40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# GRAPH-i-LINE

MULTIMEDIA PIXEL LIGHTING

## CODES

AL4375 GRAPH-I-LINE 20  
AL4376 GRAPH-I-LINE 40

## OPTICS

**DO** Opaline dome  
**DC** Clear dome

## LED TYPE


**RG** RGB

AL4375	DO	RG
CODE	+ OPTICS	+ LED TYPE


## NOTES

On request, Graph-i-line is available also in the CSA certified version.


## ACCESSORIES




**AL4424 02** IP67 START LINE BOX  
(with cables and connectors)




**AL4425 02** IP67 REPOWER BOX  
(with cables and connectors)




**AL4405 02** IP67 ELECTRONIC DRIVER



**AL4196** GData INTERFACE




**AL4418** LINE END CAP




**AL4396** 1 m CONNECTION CABLE  
**AL4397** 2 m CONNECTION CABLE  
**AL4398** 3 m CONNECTION CABLE  
**AL4399** 10 m CONNECTION CABLE


## FEATURES AND OPTIONS




FC  
RGB




RFU




IP66



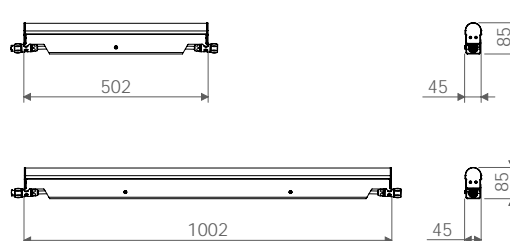
GDATA



SELF-ADR



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE



[www.given.co](http://www.given.co)



RESHAPING

ARCHITECTURAL  
DIMENSIONS

MULTIMEDIA PIXEL LIGHTING

# PARADE GRAPHIC 20 40



PARADE GRAPHIC 20 and 40 are powerful LED modules, consisting respectively of 20 and 40 independent high brightness LEDs, that enable an endless layout of patterns and graphics displays reproducing almost any visual concept. Fitted with tempered opaline glass and featuring integrated electronic driver, more modules of PARADE GRAPHIC 20 and 40 can comfortably be set up for a uniform visual pattern layout.



## TECHNICAL SPECIFICATIONS

20 or 40 high brightness independent, RGB full-colour LEDs units  
Continuously variable light intensity  
DMX remote control  
Remote firmware update (RFU)  
Self-addressing feature for digital data assignment with signal regeneration  
Plug-and-play unit  
IP67 power and DMX input and output connectors included  
Pixel pitch: 25 x 176 mm (minimum)  
Resolution: 240 pixel/m<sup>2</sup> (maximum)  
Power supply:  
100÷277V / 50-60Hz  
Power consumption:  
Parade Graphic 20 0.05A @ 230V / 10W

Parade Graphic 40 0.1A @ 230V / 20W  
Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Extruded aluminium body with tempered opaline glass  
IP67  
Operating temperature:  
Parade Graphic 20: -30°C to 45°C (-22°F to 113°F)  
Parade Graphic 40: -40°C to 50°C (-40°F to 122°F)  
Integrated electronic thermal protection management  
Parade Graphic 20: 4 Kg  
Parade Graphic 40: 6.5 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE GRAPHIC

## 20 40

MULTIMEDIA PIXEL LIGHTING

### CODES

AL4071 PARADE GRAPHIC 20  
AL4073 PARADE GRAPHIC 40

### OPTICS

**DO** Opaline dome  
**DC** Clear dome

### LED TYPE

**RG** RGB

AL4071	DO	RG
CODE	+ OPTICS	+ LED TYPE

### ACCESSORIES



**AL4400 02** IP67 START LINE BOX  
(with cables and connectors)



**AL4401 02** IP67 REPOWER BOX  
(with cables and connectors)



**AL2630** 1 m CONNECTION CABLE  
**AL2631** 2 m CONNECTION CABLE  
**AL2632** 3 m CONNECTION CABLE  
**AL2633** 5 m CONNECTION CABLE  
**AL2634** 10 m CONNECTION CABLE



**AL4196** GData INTERFACE



**AL4418** LINE END CAP

### FEATURES AND OPTIONS



RGB



RFU



IK09



IP67



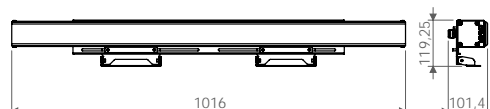
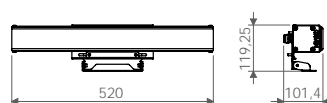
GDATA



SELF-ADR



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







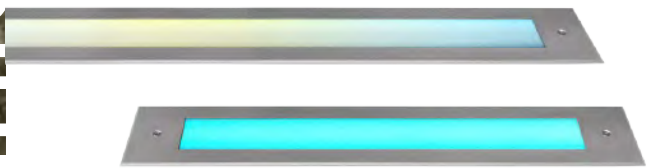


MULTIMEDIA PIXEL LIGHTING

ESCADADA



# PARADE GRAPHIC R 20 40



Featuring 20 or 40 independent RGB full-colour LEDs, compact size, light weight manageability and integrated electronic driver, PARADE GRAPHIC R 20 and 40 are recessed LED modular bars capable of reproducing almost any visual concept. Fitted with tempered heavy diffused glass, more modules can comfortably be set up for in-ground use in pedestrian areas for single pixel colour chase rainbow effects, as well as for uniform motionless colour tones, in favour of much more dynamic and eye-catching neighbourhood and instant landscape identification.



## TECHNICAL SPECIFICATIONS

20 or 40 high brightness independent, RGB full-colour LEDs units  
Continuously variable light intensity  
DMX remote control  
Remote firmware update (RFU)  
Self-addressing feature for digital data assignment with signal regeneration  
Plug-and-play unit  
IP67 power and DMX input and output connectors included  
Pixel pitch: 25 mm (minimum)  
Power supply:  
90÷277V / 50-60Hz  
Power consumption:  
Parade Graphic R 20 0.05A @ 230V / 10W  
Parade Graphic R 40 0.1A @ 230V / 20W

Electrical class: I  
Self-resetting fuse protection  
Meets CE safety standards  
Extruded aluminium body with tempered opaline glass  
AISI 304 stainless steel walk-on flange  
AISI 304 stainless steel formwork included  
IP67  
Operating temperature:  
-30°C to 50°C (-22°F to 122°F)  
Integrated electronic thermal protection management  
Parade Graphic R 20: 6 Kg  
Parade Graphic R 40: 9 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# PARADE GRAPHIC R

## 20 40

MULTIMEDIA PIXEL LIGHTING

### CODES

AL4078 PARADE GRAPHIC R 20

AL4076 PARADE GRAPHIC R 40

### ACCESSORIES



**AL4400 02** IP67 START LINE BOX  
(with cables and connectors)



**AL4401 02** IP67 REPOWER BOX  
(with cables and connectors)



**AL2630** 1 m CONNECTION CABLE

**AL2631** 2 m CONNECTION CABLE

**AL2632** 3 m CONNECTION CABLE

**AL2633** 5 m CONNECTION CABLE

**AL2634** 10 m CONNECTION CABLE



**AL4196** GData INTERFACE

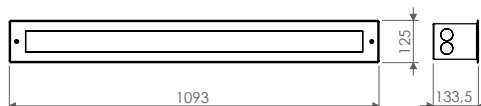
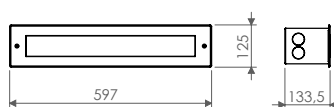


**AL4418** LINE END CAP

### FEATURES AND OPTIONS



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE




> Typical product application





MULTIMEDIA PIXEL LIGHTING

# MOLED GRAPHIC



MOLED GRAPHIC is a high impact LED linear profile for in-ground use outdoors and indoors, available either with 20 or 40 independent RGB full-colour LEDs, that can enable an endless layout of patterns and graphics displays. Featuring extremely compact size, lightweight manageability and in-built electronic driver, MoLED GRAPHIC is equipped with 19 mm thick tempered glass and AISI 316L stainless steel housing. This special housing is further strengthened by a special micro shot-peening treatment, which makes the surface more homogeneous and shock-resistant.



## TECHNICAL SPECIFICATIONS

20 or 40 high brightness independent, RGB full-colour LEDs modules  
Continuously variable light intensity  
DMX remote control  
Remote firmware update (RFU)  
Self-addressing feature for digital data assignment with signal regeneration  
Power supply:  
48V DC  
Power consumption:  
18W/m  
Power chain max:  
16 Moled Graphic 20 with 185W power supply (AL4450)  
8 Moled Graphic 40 with 185W power supply (AL4450)

Electrical class: III  
Meets CE safety standards  
Stainless steel housing and formwork  
IP67  
Operating temperature:  
-40°C to 50°C (-40°F to 122°F)  
MoLED Graphic 20: 4.3 Kg (formwork included)  
MoLED Graphic 40: 8.6 Kg (formwork included)

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# MOLED GRAPHIC

MULTIMEDIA PIXEL LIGHTING

## CODES

AL4367 MOLED GRAPHIC 20  
AL4368 MOLED GRAPHIC 40

## OPTICS

**GO** Opaline glass

## LED TYPE

**RG** RGB

**AL43671 GO RG**

CODE + OPTICS + LED TYPE

## ACCESSORIES



**AL2121** IP67 START LINE BOX



**AL2122** IP67 REPOWER BOX



**AL4450** IP67 ELECTRONIC DRIVER



**AL4196** GData INTERFACE



**AL4453** LINE END CAP



**AL4462** ELBOW ARRAY FIXING



**AL4454** FORMWORK END CAP



**AL2013** 0,5 m CONNECTION CABLE

**AL2012** 1 m CONNECTION CABLE

**AL2015** 2 m CONNECTION CABLE

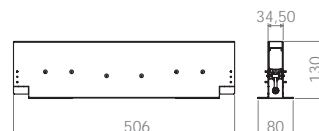
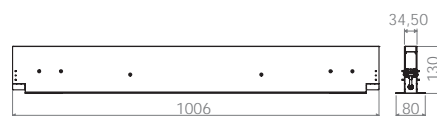
**AL2017** 3 m CONNECTION CABLE

**AL2019** 10 m CONNECTION CABLE

## FEATURES AND OPTIONS



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE



> Typical product application







MULTIMEDIA PIXEL LIGHTING





# IMAGE PROJECTION

This series offers manifold solutions to the most demanding application requirements in the global market of display projection. Company logos, promotional campaigns, graphic designs or decorative patterns can be easily projected, with a bright and accurate rendition, onto surfaces of almost any kind in the most diverse permanent outdoor and indoor locations. Packed with groundbreaking LED technology, a broad choice of assorted light output capabilities and beam angle apertures, besides multiple effects and patterns, these IP65 rated image projectors offer maximum versatility, flexibility and dynamism to the most creative light planning integration.



IMAGE PROJECTION

# GOBOLED 7-PRO



Packed with multiple effects and patterns, GOBOLED 7-PRO offers broad creative design integration for permanent exterior installations. Fitted with one high power LED, this image projector delivers a bright and accurate rendition of graphic designs or logos in outdoor and indoor locations.



## TECHNICAL SPECIFICATIONS

- 1 high brightness power 6500K LED unit
- Linear 0-100% dimmer function
- RDM function
- DMX, automatic and Master-Slave mode
- 12 DMX channels
- Strobe function (27.7 FPS max)
- Electronic blackout
- Motorized focus
- 7 rotating gobos + white (ø 27/22 mm), 16 bit indexing
- 4 fixed gobos plus animation effect + white
- 8 colours + white
- 3 prisms with variable rotation (3 - 8 facets and 3D effect)
- Pulse effect

- Power supply: 110÷240V / 50-60Hz
- Power consumption: 1A@230V / 230W
- Electrical class: I
- Meets CE safety standards
- Aluminium body with an adjustable mounting yoke
- IP66
- Front glass: IK07
- Operating temperature: -40°(-40°F) to 50°C (122°F)
- Integrated electronic thermal protection management
- 20 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# GOBOLED 7-Pro

IMAGE PROJECTION

## CODES

AL5160	GoboLED 7-Pro
AL5161	11° Optics
AL5162	20° Optics
AL5163	31° Optics

## NOTES

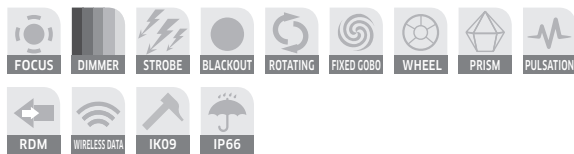
GoboLED 7-Pro must be purchased with at least one of the above mentioned optics.

## ACCESSORIES



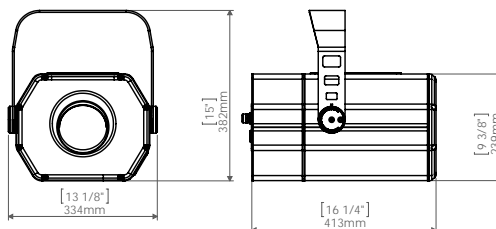
AL0250 SAFETY CABLE

## PRODUCT FEATURES



## BEAM ANGLE REFERENCE

PROJECTION ANGLE 11° ÷ 31°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







IMAGE PROJECTION

# GOBOLED 80D



Projecting a bright and accurate rendition of graphic designs, logos and patterns in outdoor and indoor locations with the help of a dichroic or metal gobo, the versatile image projector GOBOLED 80 D, fitted with a single powerful LED, provides maximum creativity, dynamism and flexibility for the most demanding design and application requirements.



## TECHNICAL SPECIFICATIONS

1 high brightness 80W power LED unit  
Manual adjustment of focus and linear zoom (20°÷32°)  
Linear 0-100% dimmer function  
Strobe function (25 FPS max)  
Electronic blackout  
One rotating gobo slot hosts either metal or glass gobos (ø ext. 53.3 - ø int. 40 mm)  
One dichroic filter can also be used in combination with a metal gobo  
DMX, automatic and Master-Slave mode  
Power supply:  
100÷240V / 50-60Hz

Power consumption:  
100W max  
Electrical class: I  
Meets CE and CSA safety standards  
Aluminium body with an adjustable mounting yoke  
IP65  
Operating temperature:  
-20°C to 40°C (-4°F to 104°F)  
8.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE





# GOBOLED 80D

IMAGE PROJECTION

## CODES

AL2502 GOBOLED 80 D

## NOTES

On request, GoboLED 80D is available also in the CSA certified version.

## ACCESSORIES



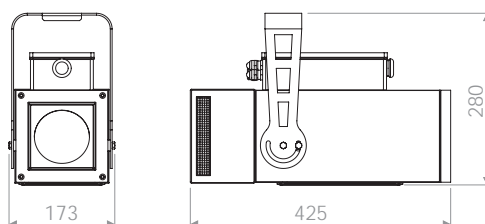
GR0250 SAFETY CABLE

## PRODUCT FEATURES



## BEAM ANGLE REFERENCE

PROJECTION ANGLE 20° ÷ 32°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







IMAGE PROJECTION



# WATER FEATURES LIGHTING

Specifically designed for water features use, these avant-garde LED light fittings perfectly fulfill the latest market demand with capturing performances. With Full Dry IP68 rating and AISI 316L stainless steel housings, these submerged fixtures are the ideal choice for trustworthy and durable installation in fountains, waterfalls, reflecting pools and for many other underwater applications, even in chlorine water and marine environment. Available in colour changing, white and monochromatic LEDs configurations, these products combine extraordinary luminous efficiency with wide optics selection for the most versatile design solutions, assured also by the different wattage, compactness and weight featured by the various models.



WATER FEATURES LIGHTING

# MAXI WATERLED



12VDC
P max 156W
IP rating IP68 - 2m
Ta min -20°C/-4°F
Ta max 35°C/95°F
Weight 4.2Kg

 **GRIVEN**  
world lighting challenge  
made in Italy



# MAXI WATERLED



MAXI WATERLED provides an astonishingly performing light output capable of enhancing wide scale underwater applications. With its AISI 316L stainless steel housing, it relies upon an IP68 protection rating and is the ideal choice for a huge variety of submerged installations even in chlorine water and marine environment. Its extraordinary luminous efficiency does not compromise environmentally friendly consumption rates.



## TECHNICAL SPECIFICATIONS

48 high brightness RGBW or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master/Slave mode  
Remote firmware update (RFU)  
Power supply:  
IP20 separate transformer 100÷240V / 50-60Hz  
IP65 separate transformer 100÷277V / 50-60Hz  
Main unit 12V  
Separate transformer box powering up to 4 units  
Power consumption:  
156W max (1 unit) at full intensity  
Electrical class: III  
10 m power supply and digital data cable included

Different cable lengths available on request  
Separate transformer featuring self-resetting fuse protection  
Meets CE safety standards  
Stainless steel body (AISI 316L)  
IP20 and IP65 aluminium separate transformer boxes  
Separate transformers: IP20 / IP65  
Full 360° orientability  
Main unit: IP68 -3m  
Operating temperature:  
-20°C to 35°C (-4°F to 95°F)  
Main unit: 4.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# MAXI WATERLED

WATER FEATURES LIGHTING

## CODES

- AL3900/10/20 MAXI WATERLED RGBW/CW/WW SPOT
- AL3901/11/21 MAXI WATERLED RGBW/CW/WW NARROW
- AL3902/12/22 MAXI WATERLED RGBW/CW/WW MEDIUM
- AL3903/13/23 MAXI WATERLED RGBW/CW/WW WIDE
- AL3904/14/24 MAXI WATERLED RGBW/CW/WW EXTRA WIDE
- AL3905/15/25 MAXI WATERLED RGBW/CW/WW ELLIPTICAL
- AL3906/16/26 MAXI WATERLED RGBW/CW/WW ELLIPTICAL WIDE

## ACCESSORIES



**AL3981** IP65 transformer and addressing box for RGBW models (4 units max) (320x280x153 mm)  
**AL3983** IP65 transformer box for W models (4 units max) (320x280x153 mm)



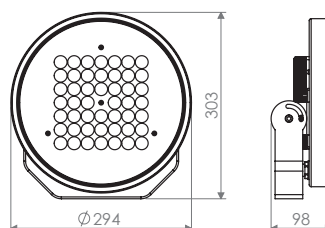
**AL3984** IP20 transformer and addressing box for RGBW models (4 units max) (304 x 243 x 94 mm)  
**AL3986** IP20 transformer and addressing box for W models (4 units max) (304 x 243 x 94 mm)

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	6°
NARROW	11°
MEDIUM	19°
WIDE	44°
EXTRA WIDE	68°
ELLIPTICAL	10°x40°
ELLIPTICAL WIDE	20°x38°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









WATER FEATURES LIGHTING





# WATERLED MK2



To be used in large to medium sized water features, WATERLED MK2, with its AISI 316L stainless steel housing, relies upon an IP68 protection rating and is the ideal choice for a huge variety of lighting installations even in chlorine water and marine environment. The extraordinary luminous efficiency of this fixture does not compromise environmentally friendly consumption rates.



## TECHNICAL SPECIFICATIONS

18 high brightness RGB or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master/Slave mode  
Remote firmware update (RFU)  
Power supply:  
separate transformer 100÷240V / 50-60Hz  
main unit 12V  
Separate transformer box powering up to 4 units  
Power consumption:  
52W max (1 unit) at full intensity  
Electrical class: III  
10 m power supply and digital data cable included

Different cable lengths available on request  
Separate transformer featuring self-resetting fuse protection Meets CE safety standards  
Stainless steel body (AISI 316L)  
Anodized aluminium heat dissipation element  
Aluminium separate transformer box  
Full 360° orientability  
Main unit: IP68 -3m  
Separate transformer: IP20/IP65  
Operating temperature:  
-20°C to 35°C (-4°F to 95°F)  
Main unit: 4.5 Kg  
Separate transformer: 3.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# WATERLED MK2

WATER FEATURES LIGHTING

## CODES

AL3341/AL3490/AL3494 WATERLED MK2 RGB/CW/WW SPOT  
 AL3340/AL3351/AL3355 WATERLED MK2 RGB/CW/WW NARROW  
 AL3342/AL3352/AL3356 WATERLED MK2 RGB/CW/WW MEDIUM  
 AL3344/AL3353/AL3357 WATERLED MK2 RGB/CW/WW WIDE  
 AL3346/AL3354/AL3358 WATERLED MK2 RGB/CW/WW ELLIPTICAL

## ACCESSORIES

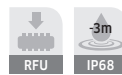


**AL3350** IP65 transformer box for RGB models  
 (4 units max) (303 x 260 x 102 mm)  
**AL3359** IP65 transformer for W models  
 (4 units max) (303 x 260 x 102 mm)



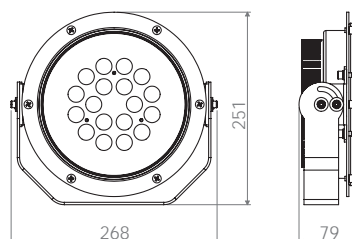
**AL3368** IP20 transformer and addressing  
 box for RGB models (4 units max)  
**AL3369** IP20 transformer and addressing  
 box for W models (4 units max)

## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	6°
NARROW	11°
MEDIUM	19°
WIDE	44°
ELLIPTICAL	24°x58°



PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE





WATER FEATURES LIGHTING





# MINI WATERLED



Small-size fountains and waterfalls, as well as reflecting pools, are the ideal applications for the compact marine-grade MINI WATERLED, whose heavy-duty AISI 316L stainless steel body hosts nine high power LEDs. The superior lumens life assisted by the on-board electronic thermal management exceeds the industry standards lifetime and the certified IP68 Class III rating defines the virtually maintenance free performance.



## TECHNICAL SPECIFICATIONS

9 high brightness RGB or white power LEDs unit  
Continuously variable light intensity  
DMX, automatic and Master/Slave mode  
Remote firmware update (RFU)  
Power supply:  
Separate transformer 100÷240V / 50-60Hz  
Main unit 12V  
Separate transformer powering up to 6 units  
Power consumption:  
18W max (1 unit) at full intensity  
Electrical class: III  
10 m power supply and digital data cable included  
Different cable lengths available on request

Separate transformer featuring self-resetting fuse protection Meets CE safety standards  
Stainless steel body (AISI 316L)  
Anodized aluminium heat dissipation element  
Aluminium separate transformer box  
Full 360° orientability  
Main unit: IP68 -3m  
Separate transformer: IP65  
Operating temperature:  
-20°C to 35°C (-4°F to 95°F)  
Main unit: 4.7 Kg  
Separate transformer: 3.7 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE



# MINI WATERLED

WATER FEATURES LIGHTING

## CODES

- AL2420/37/43 MINI WATERLED RGB/CW/WW SPOT
- AL2421/38/44 MINI WATERLED RGB/CW/WW NARROW
- AL2422/39/45 MINI WATERLED RGB/CW/WW MEDIUM
- AL2424/40/46 MINI WATERLED RGB/CW/WW WIDE
- AL2429/98/99 MINI WATERLED RGB/CW/WW EXTRA WIDE
- AL2426/41/47 MINI WATERLED RGB/CW/WW ELLIPTICAL
- AL2427/42/48 MINI WATERLED RGB/CW/WW ELLIPTICAL WIDE

## ACCESSORIES



**AL2428** IP65 transformer box for RGB models  
(6 units max) (303x249x98 mm)



**AL2449** IP65 transformer box for W models  
(6 units max) (303x243x98 mm)

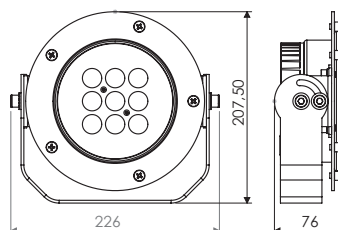
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

SPOT	7°
NARROW	11°
MEDIUM	21°
WIDE	44°
EXTRA WIDE	68°
ELLIPTICAL	9°X41°
ELLIPTICAL WIDE	20°X38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE









WATER FEATURES LIGHTING



Featuring a full dry protection rating, MICRO-DIVE MK2 is an extremely compact full colour LED fixture specifically designed for underwater applications, such as small fountains, reflecting pools or water games. Low power consumption, long life light source, light weight and compact size are some of the bonuses that grant superior performance, extreme durability and ease of installation.



## TECHNICAL SPECIFICATIONS

### RGB VERSIONS

3 high brightness RGB full colour power LEDs units  
 Continuously variable light intensity  
 DMX, automatic and Master/Slave mode  
 Power supply (separate transformer box):  
 100÷240V / 50-60Hz  
 Power consumption:  
 RGB 10.8W per unit  
 Electrical class: III  
 Separate transformer featuring self-resetting fuse protection  
 Meets CE safety standards  
 DMX LED driver AL1861 powering up to 4 units,

even independently (100÷240V / 50-60Hz)  
 Full 360° orientation capability with adjustable bracket for surface mounting  
 Stainless steel (AISI 316L)  
 IP68 -2m  
 Separate transformer box: IP65  
 Operating temperature:  
 -20°C to 40°C (-4°F to 104°F)  
 1.6 Kg  
 Separate transformer box: 4.2 Kg

DIGITAL CONTROL SYSTEM SPECIFICATIONS AND CONFIGURATIONS AVAILABLE ON OUR WEBSITE

### WHITE LIGHT VERSIONS

3 high brightness white power LEDs unit  
 Power supply: 100÷240VAC / 50-60Hz  
 7.2W per unit with separate transformer box  
 Electrical class: III  
 Sep. transformer featuring self-resetting fuse protection  
 Meets CE safety standards  
 IP20 separate transformer AL1458 operating at 100÷240V (1 unit Micro-Dive W MK2)  
 IP65 separate transformer AL3083 at 100÷240V

(2 units Micro-Dive W MK2)  
 Full 360° orientation capability with adjustable bracket for surface mounting  
 Stainless steel (AISI 316L)  
 IP68 -2m  
 Outdoor separate transformer boxes: IP65  
 Operating temperature:  
 -20°C to 40°C (-4°F to 104°F)  
 1.6 Kg  
 Outdoor separate transformer (AL3083): 1.4 Kg



# MICRO-DIVE MK2

WATER FEATURES LIGHTING

## CODES

AL2680 MICRO-DIVE MK2 RGB NARROW  
AL2682 MICRO-DIVE MK2 RGB MEDIUM  
AL2684 MICRO-DIVE MK2 RGB WIDE

AL2694/86 MICRO-DIVE MK2 CW/WW SPOT  
AL2696/88 MICRO-DIVE MK2 CW/WW NARROW  
AL2697/90 MICRO-DIVE MK2 CW/WW MEDIUM  
AL2698/92 MICRO-DIVE MK2 CW/WW WIDE  
AL2699/93 MICRO-DIVE MK2 CW/WW EXTRA WIDE  
AL2691/87 MICRO-DIVE MK2 CW/WW ELLIPTICAL  
AL2695/89 MICRO-DIVE MK2 CW/WW ELLIPTICAL WIDE

## ACCESSORIES



**AL1861** IP65 SEPARATE TRANSFORMER BOX  
(for RGB versions)



**AL3083** IP65 SEPARATE TRANSFORMER BOX  
90÷120V Size 219x191x102 mm  
(for WHITE versions)



**AL1458** IP20 SEPARATE TRANSFORMER  
220÷240V Size 165x40x25 mm  
(for WHITE versions)

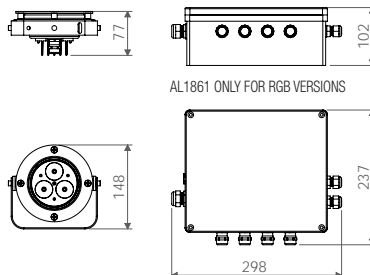
## FEATURES AND OPTIONS



## BEAM ANGLE REFERENCE

RGB		WHITE LIGHT	
NARROW	14°	SPOT	7°
MEDIUM	28°	NARROW	11°
WIDE	40°	MEDIUM	20°
		WIDE	38°
		EXTRA WIDE	68°
		ELLIPTICAL	10°X39°
		ELL. WIDE	20°X38°

PHOTOMETRIC DETAILS AVAILABLE ON OUR WEBSITE







WATER FEATURES LIGHTING



# APPENDIX



# > PROTECTION DEGREE

Definition of Ingress Protection (in accordance with the European regulation standard EN 60 598-1)

## IP20

The classification of the protection degree specifies the resistance against the ingress of solids and liquids.

## IP20

The first digit indicates the protection against penetration by dust and solid objects.

## IP20

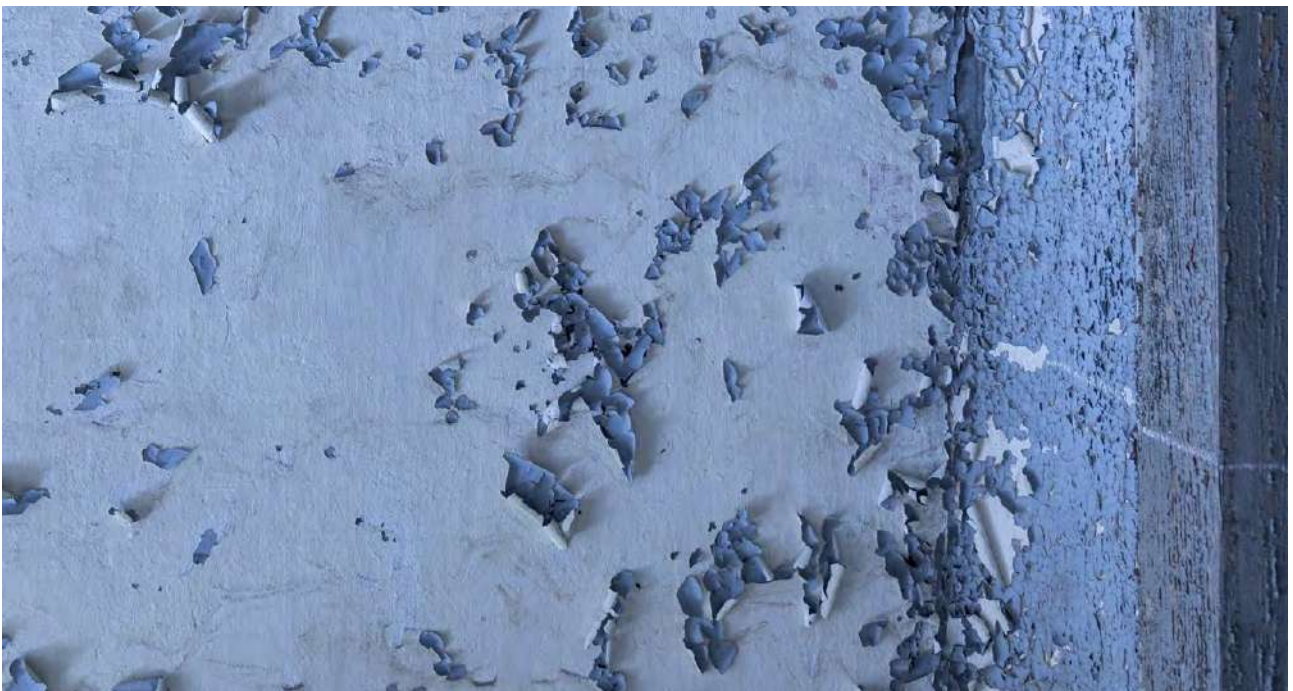
The second digit indicates the protection against infiltration by moisture and liquids.

## IP20

- 0 No protection
- 1 Protected against ingress from large solid bodies  $\geq 50$  mm in  $\emptyset$
- 2 Protected against ingress of medium sized solid foreign bodies  $\geq 12$  mm in  $\emptyset$
- 3 Protected against ingress of small solid foreign bodies thicker than  $\geq 2.5$  mm in  $\emptyset$
- 4 Protected against ingress of small solid foreign bodies thicker than  $\geq 1$  mm in  $\emptyset$
- 5 Protected against ingress of harmful amounts of dust
- 6 Complete protection against dust

## IP20

- 0 No protection
- 1 Protected against drops of liquid that fall vertically
- 2 Protected against drops of liquid that fall with a maximum inclination of  $15^\circ$
- 3 Protected against drops of liquid that fall with a maximum inclination of  $60^\circ$
- 4 Protected against water sprays from any direction having no harmful effect
- 5 Protected against water jets from any direction
- 6 Protected against heavy downpours or powerful water jets
- 7 Protected against the effects of immersion in water
- 8 Protected against indefinite submersion





## > COLOUR RENDERING INDEX (CRI)



The colour rendering index (CRI) is a quantitative measure of the ability of a light source to reproduce the colours of various objects faithfully in comparison with an ideal or natural light source.

6300K Cold White - typical CRI: 70

3000K Warm White - typical CRI: 80

LEDs featuring a higher index (CRI>80, CRI>85 and CRI90) are available on request.

## > CLASSIFICATION AND HOMOLOGATION

### Class I

Fixtures that offer insulation class I provide protection against electrical shock solely using the base insulation and the safe connection of all exposed conductive parts to an earth conductor.



### Class II

Fixtures in which protection against electrical shock does not rely on basic insulation only, but in which additional safety precautions such as double insulation or reinforced insulation are provided, being there no provision for protective earthing or reliance upon installation conditions.



### Class III

Fixtures in which protection against electrical shock relies on supply at Safety Extra Low Voltage (SELV) and in which voltages higher than those of SELV are not generated.



The CE mark is the European regulation governing all products that are introduced to the market. The products that appear in this catalogue are built in compliance with the European Standard EN 60 598-1 and the European Directives CE 89/336 and CE 92/31 for electromagnetic compatibility and CE 73/23 for low voltage.

### RoHS

All the products contained in this catalogue comply with the directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC, commonly referred to as the Restriction of Hazardous Substances directive (RoHS), and with the Waste Electrical and Electronic Equipment directive (WEEE) 2002/96/EC, which sets collection, recycling and recovery targets for electrical goods.



This marking means that the product is certified by CSA International, for both the U.S. and Canadian markets, to the applicable U.S. and Canadian standards.

# > PHOTOMETRIC DATA CALCULATION

## LIGHTING DESIGN TABLES AND GRAPHICS

Lighting appliances are characterized for lighting engineering purposes by a series of tables and graphics that describe their characteristics from the point of view of their luminous emission.

## INTERNATIONAL CLASSIFICATIONS

The classifications represent different ways of classifying luminaires according to their luminous emission.

The table shows 4 different classifications:

- CIE (Recommendation n.52)
- DIN 5040 (German Norm) (example A60)
- UTE C 71-121 (French Norm) (example 0.65A + 0.00T)
- NBN L 14-002 (Belgian Norm - method BZ) (example BZ2)

## PHOTOMETRIC TABLE

The photometric table shows the values of luminous intensity in cd/klm measured around the luminaire. The luminaire is located at the centre of a sphere of a suitable diameter. Generally the luminous intensities are calculated with the inverse square distance formula at defined angular distances, which are not normally constant. Take a luminaire, for example with a fluorescent lamp, with downward dark light emission (there is no lateral emission), we can define the luminous area as the area from which the light emits and the luminous axis. The axis is obviously vertical, perpendicular to that area which passes through the meeting point (luminous centre) of the diagonals of the luminous area.

At this point, placing the photoelectric cell of an illuminance meter on the luminous axis at a given distance from the luminaire we can determine the first value corresponding to Gamma = 0°. Now take a half-plane coming from the luminous axis and directed transversally towards the luminaire lamps; we can call the half-plane C-0°. This half-plane constitutes the starting point of the other half-planes situated all around the luminous axis.

Moving the photoelectric cell along the C-0° half-plane with constant angular step, for example every 5°, in each position we obtain a new reading generally different from the previous ones, until arriving at Gamma = 90° (the photoelectric cell is situated laterally to the luminaire) where a dark light luminaire no longer emits light (E = 0 lux). The operation can be repeated along each of the infinite half-planes coming from the luminous axis: generally, however, it is usual to take into consideration the C-90°, C-180° half-planes or those with angular interdistances of 30° or 15°.

All the measured and converted values are summarized in a table (Photometric Table) according to the initial C-half-plane and relative Gamma angle. The luminous intensities are calculated with laboratory readings by converting the values measured by the illuminance meter using the formula:

$$I = (E \times d^2) / F$$

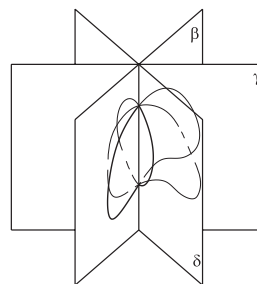
Where:

- I = luminous intensity (in cd/klm).
- d = distance luminaire-photoelectric cell; this distance must be greater than 5 times the maximum dimension of the luminous volume or area so that the luminaire can be considered a point source (Far Field method not to be confused with the Near Field method).
- F = total luminous flux of the lamps (in klm).

## POLAR AND CARTESIAN DIAGRAMS

The photometric table data are graphically represented by means of different photometric curves according to the type of coordinates employed:

- photometric curves represented with polar coordinates;
- photometric curves represented with Cartesian coordinates.



The first are used to represent luminaires in interiors and road installations, while the second better represent the emissions from floodlights; this does not however mean that a luminaire cannot be represented in either way.

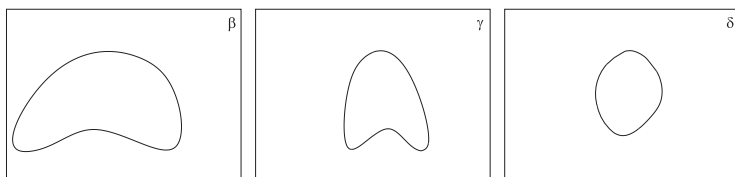
### The Polar Diagram (or Polar Curve)

The Polar Diagram is obtained by selecting a half-plane from the photometric table (for example C-0°), marking in the corresponding values of intensity and angle on the polar plane and carefully joining the various points.

The polar curve can also be seen as the cross-section of the photometric solid through a plane that passes through the luminous axis of the luminaire.

### The Cartesian Diagram

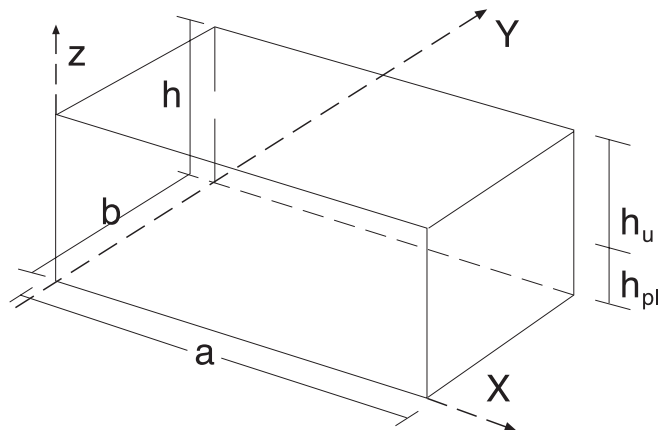
If the intensity values according to the Gamma angle are represented in terms of Cartesian coordinates (X-axis angles, ordinate intensity values) on a Cartesian plane and are carefully joined, the representation of the curve in Cartesian form is obtained (Cartesian Diagram).





**UTILIZATION FACTOR TABLES FOR THE WORK PLANE**

The utilization factor tables are useful for determining the number of luminaires of the same kind to be used within the room given an average illuminance value.



K	8873	7773	7753	7731	5551	5511	3311	0000
0.6	0.45	0.42	0.34	0.28	0.31	0.24	0.23	0.21
0.8	0.53	0.49	0.41	0.34	0.37	0.29	0.28	0.26
1.0	0.59	0.55	0.47	0.40	0.41	0.34	0.33	0.30
1.3	0.65	0.61	0.53	0.45	0.46	0.39	0.38	0.35
1.5	0.69	0.65	0.58	0.49	0.50	0.43	0.41	0.38
2.0	0.76	0.71	0.65	0.55	0.55	0.49	0.47	0.43
2.5	0.80	0.75	0.69	0.59	0.58	0.53	0.51	0.46
3.0	0.83	0.78	0.73	0.62	0.61	0.56	0.53	0.49
4.0	0.85	0.80	0.76	0.65	0.63	0.59	0.55	0.50
5.0	0.88	0.83	0.79	0.67	0.65	0.61	0.58	0.52

**ELEMENTS IN THE TABLE**

- Reflectance factors (example 773): these are the reflectance factors of the ceiling, walls and work plane and are to be considered as percentages multiplied by 10 (example 70%, 70% and 30%).
- Room Index K (example 0.6): the room index is a factor that considers the dimensions of the room under examination.
- Utilization Factors (example 340): these factors consider the amount of flux emitted by the luminaires falling on the work plane. The factors are expressed in thousands (0.340).

**USE OF THE TABLE**

1. First of all, the reflectance value for ceiling, walls and work plane must be determined; in the case of walls with different reflectance factors, an average value should be calculated.

2. The room index corresponding to the room is calculated by means of the formula:

$$k = (a \times b) / (Hu \times (a + b))$$

where:

a and b are the length and width of the room;

Hu is the working height understood as being the distance between the work plane and the luminaire.

3. The utilization factor is determined as the intersection of the column corresponding to the chosen reflectance factors and the line of the calculated room index: where precise values are unavailable, an average will have to be calculated.

4. The average illuminance value desired is determined according to the type of activity to be carried out inside the room.

5. The number of luminaires required to obtain the desired value of illuminance is calculated with the formula:

$$N = (E \times A) / (F \times Fu)$$

where:

N = number of luminaires

E = desired illuminance (in lx)

A = a x b = total area (in m<sup>2</sup>)

F = total flux of the individual luminaire (in lm)

Fu = utilization factor



# > ACKNOWLEDGEMENTS



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