# PULSAR

## LuxEOS Beam 20 VIVID COLOUR & TUNABLE WHITE
ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING
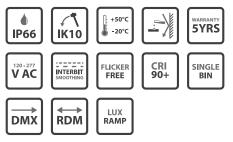
A high performance Ultra Narrow 3° LED Flood using Red, Green, Blue, (Amber or White) **(CRI90+)** LEDs.

### KEY FEATURES

| | | | | |
|---|---|---|---|---|
| IP66 | IK10 | +50°C -20°C | | WARRANTY 5YRS |
| 120 - 277 V AC | INTERBIT SMOOTHING | FLICKER FREE | CRI 90+ | SINGLE BIN |
| DMX | RDM | LUX RAMP | | |

### LED COLOUR OPTIONS

| RGBW 5700K | RGBW 2700K | RGBA 1700K | TW 1700K to 5700K |
|---|---|---|---|

### FINISH OPTIONS

| RAL 9005 | RAL 9006 | RAL 9016 |
|---|---|---|
| BLACK | SILVER | WHITE |

### LIGHT QUALITY BEST IN CLASS

Calling upon our 45+ years of lighting expertise, our custom light engines deliver vibrant, internally mixed colour, smooth dimming and exceptional light output.

### HIGH PERFORMANCE

Flicker Free
**100,000 hours** L70 at 50°C
Single bin selected LED's for colour consistancy.

### TRUE THERMAL DESIGN

Convection cooled for completely silent operation
Intelligent thermal management
Precision engineered housing.

### DURABLE AND RELIABLE

Waterproof to IP66 with an IK10 rating
Cast LM6 aluminium housing
Corrosion resistant as standard
Toughened glass & marine grade fasteners.

### CUSTOMISE TO YOUR SPECIFICATION

RAL paint finishes
Bespoke mounting brackets
Comprehensive range of beam angles are available
Single colour options.

### UK DESIGN & MANUFACTURE

The LuxEOS range of products are all designed and manufactured in **Hertfordshire, UK.**

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### ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING

| | | | Quad VC RGBW 5700K | Quad VC RGBW 2700K | Quad VC RGBA 1700K | TW A 1700K W 2700K C 5700K | Custom |
|---|---|---|---|---|---|---|---|
| **Options** | **Light Engine** | LED Type | | | | | |
| | | No. of LED's | 20 | 20 | 20 | 20 | On enquiry |
| | | CRI | 90+ (white) | 90+ (white) | - | 90+ (CW) | On enquiry |
| | | Wavelength CCT (Colour Temp K) | **R** 624 - 634nm **G** 525 - 530nm **B** 445 - 450nm **Cool W** - 5700K | **R** 624 - 634nm **G** 525 - 530nm **B** 445 - 450nm **Warm W** - 2700K | **R** 624 - 634nm **G** 525 - 530nm **B** 445 - 450nm **Amber** - 1700K | **Amber** - 1700K **Warm** - 2700K **Cool** - 5700K | Custom single and multiple population |
| | | Lumen output (All) | 1442 lm | 1428 lm | 1413 lm | 2106 lm | On enquiry |
| | | Lumen maintainance | 100,000 hours L70 at 50° C (Projected lifetime based on extrapolated LM-80 data) | | | | |
| | **Optics** | Circular | 3° | | | | Custom On enquiry |
| | | Elliptical | 3° x 60° | | | | |
| | **Body Finish** | RAL Reference | **RAL 9005** **9005** Black | **RAL 9006** **9006** Silver | **RAL 9016** **9016** White | **RAL** **CUSTOM** | |
| | | Finish | MN805L matt | SW262D matt | MA816E matt | On enquiry | |
| | | Material | AkzoNobel polyester exterior grade powder coat | | | | |
| **Specifications** | **Electrical** | Power input | 120 - 277V AC @ 50/60Hz. | | | | |
| | | Wattage | 45W. | | | | |
| | | Control | DMX 512 - 4 channels (VC) 3 channels (TW) Resolution - 8 bit (with intelligent smoothing) RDM - Remote Device Management for easy setup Thermal - Automatic Thermal Management built in. | | | | |
| | | Connection | Combined Power and DMX, provided on a QuickLINK+ connector. | | | | |
| | **Physical** | Weight & Dimensions | 7.3 kgs (16.0lbs)   350mm (H) x 255mm (W) x 150mm (D) (including yoke). | | | | |
| | | Material and finish | Cast LM6 aluminium, powder coated - corrosion pre-treatment as standard. | | | | |
| | | Mount options | Multi-purpose bracket. | | | | |
| | | Lens and front glass | Acrylic lenses and toughened front glass to IK10. | | | | |
| | | Temperature range | -20 to +50°C. | | | | |
| | | Ingress protection | IP66 - Dry conditions and damp or wet interior/exterior environments. | | | | |
| **Accessories** | **Installation** | Mounting plate | Installed as part of the first fix installation, allowing the rotation of the luminaire post installation. | | | | |
| | **Connection Kits** *Not supplied. Please Specify the required connection kit for each luminaire.* | 1m QuickLINK+ Cable | A 1metre long QuickLINK+ cable, one end is bare to enable the connection to existing wiring. | | | | |
| | | IP Enclosure +1m QuickLINK+ | An IP66 wiring enclosure with a 1m QuickLINK+ tail to plug into LuxEOS luminaires. | | | | |
| | | IP Enclosure +1m QuickLINK+ with QuickLINK Tails | An IP66 wiring enclosure with a 1m QuickLINK+ tail to plug into LuxEOS luminaires. This varient also has QuickLINK tails so that the luminaires can be daisychained together with a single cable run. | | | | |
| | | LuxCONNECT Wireless | A wireless DMX controller fitted within an IP65 enclosure. Controlled via the Casambi app. | | | | |
| | **Optical Control** | Snoot | A baffle that fits around the luminaire to reduce off-axis glare. | | | | |
| | | Half Snoot | A baffle that reduces off-axis glare from the top of the luminaire only. | | | | |

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## LuxEOS Beam 20 VIVID COLOUR & TUNABLE WHITE
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### LuxEOS BEAM - PART NUMBERS

PART NUMBER STRUCTURE

| OPTIONS | DESCRIPTION | LBEA | XXX. | XXXX. | XX. | XXXX. | XXX. | XX. | XX |
|---|---|---|---|---|---|---|---|---|---|
| LBEA | LuxEOS Beam luminaire | **LBEA** | | | | | | | |
| M20 / M40 / M80 | Luminaire size - LuxEOS Beam 20, 40, 80 | | **XXX.** | | | | | | |
| RDM2 | Control - DMX + RDM | | | **XXXX.** | | | | | |
| VC / A3 / A1 / TW | LED (VC=RGBW57K, A3=RGBW27K, A1=RGBA17K, TW=Tunable White) | | | | **XX.** | | | | |
| 9005 / 9006 / 9016 | Finish - 9005 (Black), 9006 (Silver), 9016 (White) | | | | | **XXXX.** | | | |
| 003 / H06 | Beam angle - **003** (3°) / **H06** (3°x60°) | | | | | | **XXX.** | | |
| not applicable | | | | | | | | **XX.** | |
| not applicable | | | | | | | | | **XX** |

Example : LuxEOS Beam 20, RDM, VC 5700K, Silver, 3° =  **LBEAM20.RDM2.VC.9006.003.XX.XX**

### LuxEOS OPTICAL CONTROL ACCESSORIES - PART NUMBERS

PART NUMBER STRUCTURE

| OPTIONS | DESCRIPTION | LUXI | XXX. | XXXX. | XX. | XXXX. | XXX. | XX. | XX |
|---|---|---|---|---|---|---|---|---|---|
| LUXI | LUXI accessory | **LUXI** | | | | | | | |
| A09 / A18 / A36 | Luminaire-LuxEOS A09 = B20, A18 = B40, A36 = B80 | | **XXX.** | | | | | | |
| A002 / A003 | Beam Shaper - A002 Snoot, A003 Half Snoot | | | **XXXX.** | | | | | |
| not applicable | | | | | **XX.** | | | | |
| 9005 / 9006 / 9016 | Finish - 9005 (Black), 9006 (Silver), 9016 (White) | | | | | **XXXX.** | | | |
| not applicable | | | | | | | **XXX.** | | |
| not applicable | | | | | | | | **XX.** | |
| not applicable | | | | | | | | | **XX** |

Example : LuxEOS Beam 20 Snoot Black =  **LUXIA09.A002.XX.9005.XXX.XX.XX**

### INSTALLATION ACCESSORIES

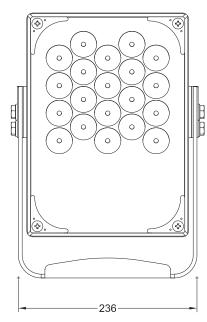| Description | Part Number |
|---|---|
| Mounting plate for LuxEOS Flood 9 & 18, Beam 20 & 40 | LUXIM01.F002.XX.9005.XXX.XX.XX |
| Mounting plate for LuxEOS Flood 36, Beam 80 | LUXIM01.F001.XX.9005.XXX.XX.XX |
| QuickLINK+ cable 1m - bare ends | LUXIHWX.XL01.XX.NONE.XXX.XX.XX |
| QuickLINK+ cable 2m - bare ends | LUXIHWX.XL02.XX.NONE.XXX.XX.XX |
| QuickLINK+ cable 5m - bare ends | LUXIHWX.XL05.XX.NONE.XXX.XX.XX |
| LuxCONNECT box IP66 - With 1 - QuickLINK+ (F) 1m cable, for hardwired installation (supplied with cable glands) | LUXIHWX.WB01.XX.NONE.XXX.XX.XX |
| LuxCONNECT box IP66 - With 2 - QuickLINK+ (F) 1m cables, for hardwired installation (supplied with cable glands) | LUXIHWX.WB03.XX.NONE.XXX.XX.XX |
| LuxCONNECT Wireless connection box IP66 - With 1 - QuickLINK+ (F) 1m cable, for hardwired installation (supplied with cable glands) | LUXIHWX.LCW01.XX.NONE.XXX.XX.XX |
| LuxCONNECT Wireless connection box IP66 - Prewired with 2 - QuickLINK+ (F) 1m cable, 1 - for hardwired installation (supplied with cable glands) | LUXIQLX.LCW03.XX.NONE.XXX.XX.XX |

**PULSAR**
by DW Windsor Ltd, Pindar Road, Hoddesdon, Hertfordshire, EN11 0DX, UK
www.dwwindsor.com/pulsar | info@dwwindsor.com | +44 (0)1992 474600

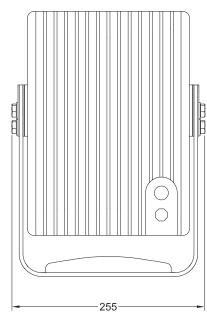3 of 8

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### PRODUCT DRAWINGS (All dimensions in mm)

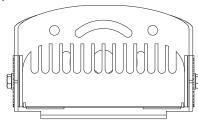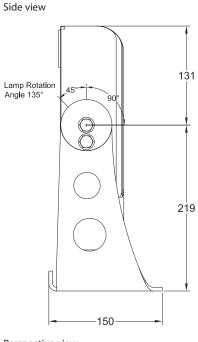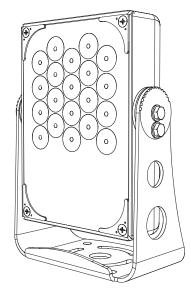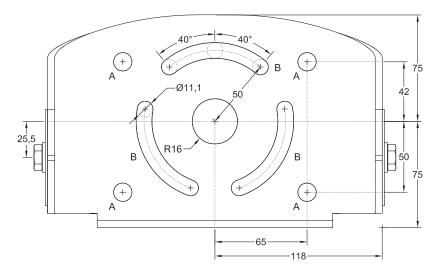Front view



236

Side view



Lamp Rotation Angle 135°

45°

90°

131

219

150

Rear view



255

Perspective view



Top view



**Weights**
LuxEOS Beam 20 - 7.3 kgs
**Dimensions**
350mm (H) x 255mm (W) x 150mm (D)
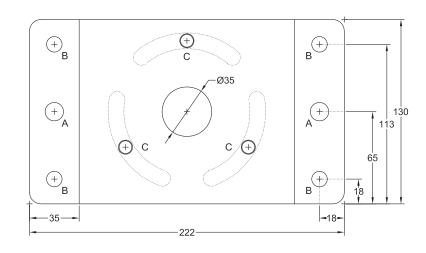
# PULSAR

## LuxEOS Beam 20 VIVID COLOUR & TUNABLE WHITE
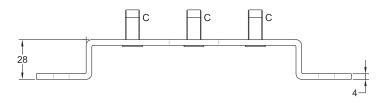ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING

### PRODUCT DRAWINGS

Standard Yoke



Optional
Mounting Plate



### Hole details

(A) - Clearance for M12 fixings

(B) - Clearance for M10 fixings

(C) - M10 Studs for Standard Yoke
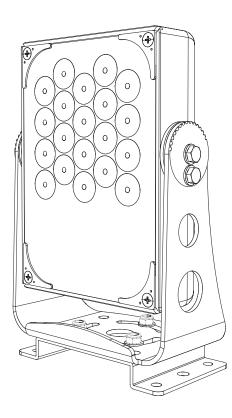
All dimensions in mm

# PULSAR

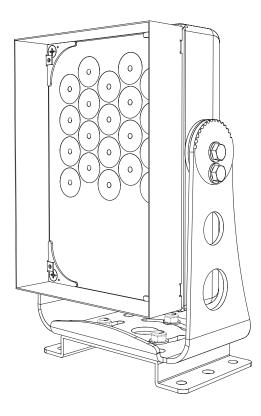## LuxEOS Beam 20 VIVID COLOUR & TUNABLE WHITE
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PRODUCT DRAWINGS

Standard LuxEOS Beam 20
With optional Mounting Plate

Standard LuxEOS Beam 20
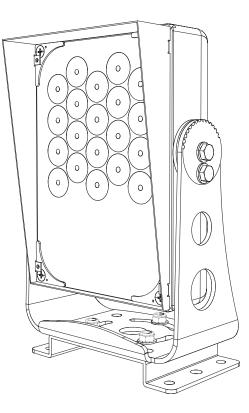With optional Mounting Plate
and 50mm Snoot

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### PRODUCT DRAWINGS

Standard LuxEOS Beam 20
With optional Mounting Plate
and Half Snoot

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## ADDITIONAL INFORMATION

### Key Feature Icons

| | | |
|---|---|---|
| **IP66** | Ingress Protection Value | |
| **IK10** | Mechanical Impact Protection IK Value | |
| **+50°C -20°C** | Operating Temperature Range | |
| Corrosion Resistant | | |
| **WARRANTY 5YRS** | Warranty Period | |
| **120-277 V AC** | Operating Voltage Range | |
| **INTERBIT SMOOTHING** | Smooth Interbit Theatrical Dimming | |
| **FLICKER FREE** | True Flicker Free Output | |
| **CRI 90+** | Colour Rendering Index Value | |
| **SINGLE BIN** | Single Bin Led Selection | |
| **DMX** | DMX 512 Control | |
| **RDM** | RDM Compliant | |
| **LUX RAMP** | LuxRamp For Maximum Output | |

### Cabling

**Mains Supply Cable Colours (Harmonised)**

| | |
|---|---|
| Green/Yellow | Earth - Ground |
| Brown | Live Phase |
| Blue | Neutral |

**DMX Cable Colours (Pulsar)**

| | |
|---|---|
| White | DMX + |
| Blue | DMX - |
| Shield | Screen |

**QuickLINK+ Cable Colours (Power)**

| | |
|---|---|
| Green | Earth - Ground |
| Black | Live Phase |
| White | Neutral |

**QuickLINK+ Cable Colours (Data in)**

| | |
|---|---|
| White | DMX + |
| Green | DMX - |
| Shield | Screen |

**QuickLINK+ Cable Colours (Data through)**

| | |
|---|---|
| Red | DMX + |
| Blue | DMX - |
| Shield | Screen |

### Portable Appliance Testing

LuxEOS luminaires may be safely earth bond and insulation tested (500V).

### Standards

LuxEOS luminaires comply with the following international and national harmonised standards

Electrical Safety - EN 60598, EN 60598-2-13, EN 61347
EMC - EN 55015, EN 61547
RoHS - EN 50581
Photobiological – EN 62471
WEEE - EN 50419
Protection – IP66 / IK10

### Warranty

Five years from the date of original purchase.

The warranty covers defects in manufacturing workmanship and materials. It is limited to parts and labour.

The warranty becomes void if the product is :-

A   Misused.

B   Not used in accordance with the instructions.

C   The cable connections are not made according to our instructions if the unit is used in damp or wet environments.

D   Repairs are made by unauthorised persons.

E   The serial number label has been removed or defaced.

Pulsar's maximum liability shall not exceed the price paid for the product.

In the unlikely event of a fault occurring, do not use without repair, return the product, with a description of the fault, to your supplier or direct to Pulsar for immediate attention.

Full warranty details are available on request or from our website at www.pulsarlight.com.

As part our commitment to continuous improvement PULSAR may change the specifications of its products without prior notification or public announcement.

All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract.

Please visit our website for the most up to date information.

**PULSAR**
by DW Windsor Ltd, Pindar Road, Hoddesdon, Hertfordshire, EN11 0DX, UK
www.dwwindsor.com/pulsar  |  info@dwwindsor.com  |  +44 (0)1992 474600

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