

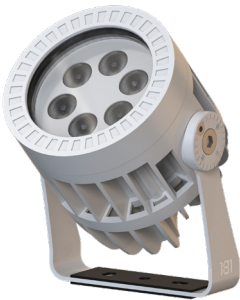
Beam F12 Tunable White

181

The Beam luminaires deliver precision architectural lighting with exceptional versatility for accent, façade, grazing, and decorative applications. Perfect for illuminating façades, landmarks, parks, and landscapes with high lumen output, efficiency, and long-term reliability.

The Beam F12 Tunable white is perfect for a dynamic lighting scheme with High-quality white light. They come with environmental protection including a coastal proof rating. With beam angles from 15° to 60° and asymmetric distributions, it provides precise optical control for diverse lighting applications.

- High-Frequency LED Drive - 16kHz flicker-free operation for broadcast and film-safe applications
- Asymmetric Beam Architecture - Specialized oval distributions for precise architectural washing and grazing effects



CE

RoHS

IP67

IK08

Specifications

General	
Power Consumption (W)	12
Input Voltage (V DC)	48
LEDs (/pc)	6
Pixels (/pc)	1
Flicker Frequency (kHz)	16
LED Type	2in1
Channels (/pc)	3
Color Range	Tunable White
CRI	≥80 (Custom on request)
Control	DMX(RDM)/PxLNet
Dimming	16 Bit

Installation Conditions & Lighting Data		
Maximum Run Length (pcs)	32	
Delivered Lumen Full White (lm)	1060 (1800K-6000K 45°)	
Maximum Data Run Length DMX(RDM) (pcs)	@45fps	85
Maximum Data Run Length PxLNet (pcs)	@40fps	680
	@60fps	340
Lumen Maintenance Calculated Hours (h)	L80B10 50,000	

Operating	
Environment	Outdoor
Storage Temperature (°C)	-40 to +90
Working Temperature (°C)	-30 to +85
Saltwater Resistant	Yes
Coastal Environmental Proof	Yes
UV Resistant	Yes
Flame Resistant	Yes
IK Rating	IK08
IP Rating	IP67
Certification	CE, RoHS
Limited Warranty	5 Years

Physical	
Housing Material	Aluminium (ADC12)
Cover Material	Tempered Glass
Connector Material	Nylon (PA66)
Housing Color	Grey RAL7047 (Custom on request)
Cable Material	PCP
Cable Color	Black
Connector Type	M16 5Pin
Weight (kg/pc)	1,15
Dimensions WxH (mm)	125 x 155

Options

Color/CCT
☐ 1800K-6000K
☐ 2700K-6000K

Optics
☐ 15°
☐ 25°
☐ 45°
☐ 60°
☐ 20°x40° ¹

¹ Both Horizontal and Vertical alignment available

Control
☐ DMX (RDM)
☐ PxLNet

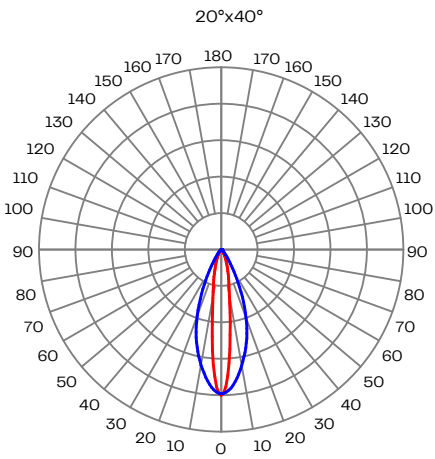
Accessories
☐ Half Glare Shield
☐ Honeycomb

Lighting Specifications

Beam F12

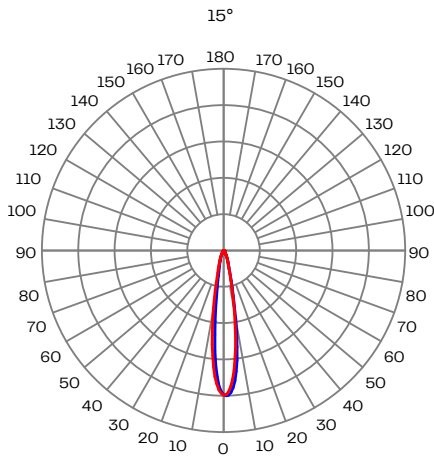
	Full White (lm/m)	Cold White (lm/m)	Warm White (lm/m)
Tunable White 1800-6000K 15°	1039	857	884
Tunable White 1800-6000K 25°	1050	866	893
Tunable White 1800-6000K 45°	1060	875	901
Tunable White 1800-6000K 60°	1029	849	875
Tunable White 1800-6000K 20°x40°	997	823	848
Tunable White 2700-6000K 15°	1060	875	902
Tunable White 2700-6000K 25°	1071	884	911
Tunable White 2700-6000K 45°	1082	893	920
Tunable White 2700-6000K 60°	1050	866	893
Tunable White 2700-6000K 20°x40°	1017	839	865

Photometric Distribution



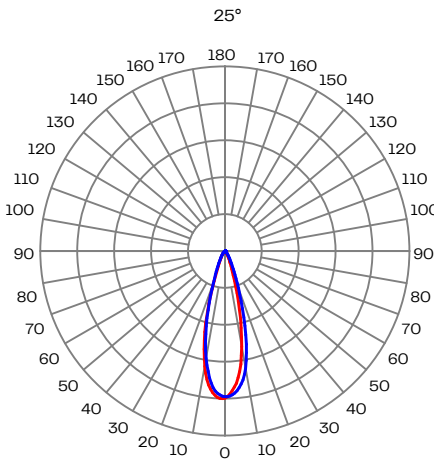
Average Diffuse Angle(50%): 27.1°

C0-C180 C90-C270



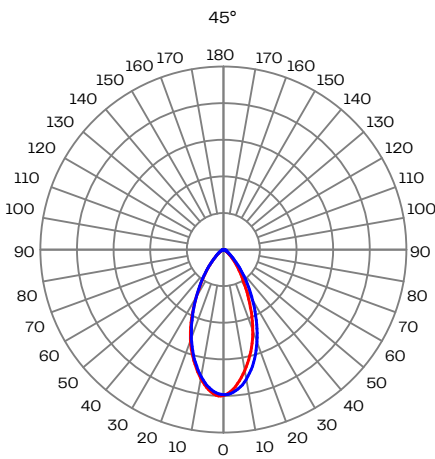
Average Diffuse Angle(50%): 17.4°

C0-C180 C90-C270



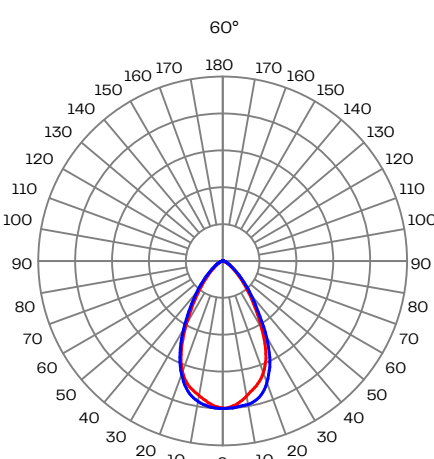
Average Diffuse Angle(50%): 28.9°

C0-C180 C90-C270



Average Diffuse Angle(50%): 50.0°

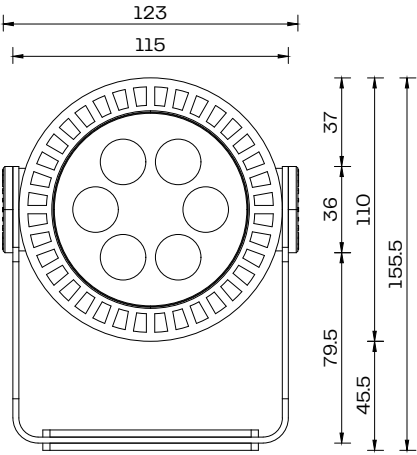
C0-C180 C90-C270



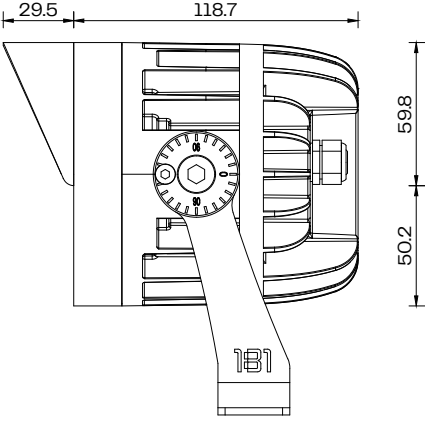
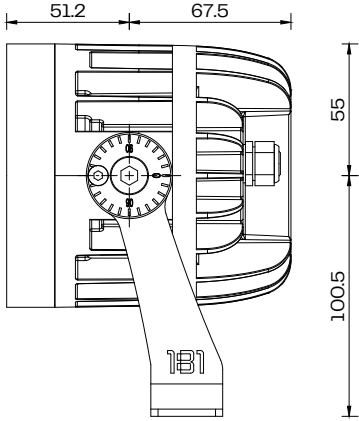
Average Diffuse Angle(50%): 62.3°

C0-C180 C90-C270

Dimensions



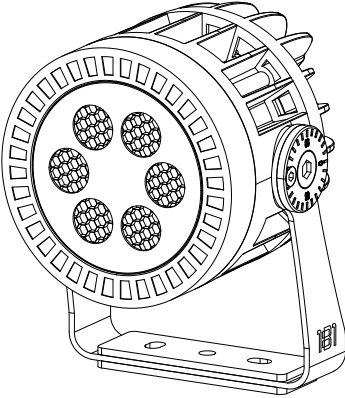
Beam F12 Tunable White



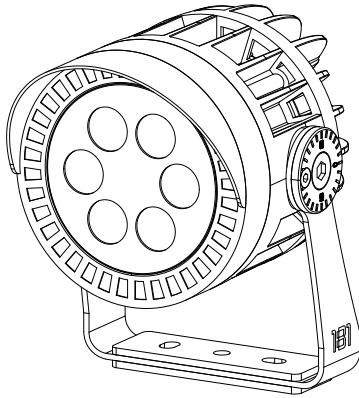
Half Glare Shield

*The dimensions shown are not to scale. Please refer to the Dimension Sheet document for additional dimensions.

Accessories Options

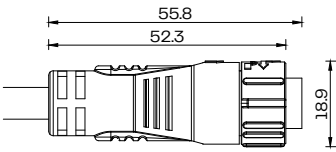


Honeycomb

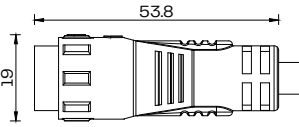
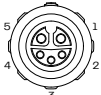


Half Glare Shield

Connection



M16 Male Connector



M16 Female Connector

Connector Pin		
Pin 1	Red	48 V+
Pin 2	Green	Data +
Pin 3	White	Program
Pin 4	Yellow	Data -
Pin 5	Black	GND

Product References

Beam

Reference	Description
3428121	Beam F12 Tunable White 1800-6000K 15°
3428123	Beam F12 Tunable White 1800-6000K 25°
3428125	Beam F12 Tunable White 1800-6000K 45°
3428127	Beam F12 Tunable White 1800-6000K 60°
3428129	Beam F12 Tunable White 1800-6000K 20°x40°
3428122	Beam F12 Tunable White 2700-6000K 15°
3428124	Beam F12 Tunable White 2700-6000K 25°
3428126	Beam F12 Tunable White 2700-6000K 45°
3428128	Beam F12 Tunable White 2700-6000K 60°
3428130	Beam F12 Tunable White 2700-6000K 20°x40°

Accessories

Reference	Description
3990971	Honeycomb
3990981	Half Glare Shield