

Beam F12

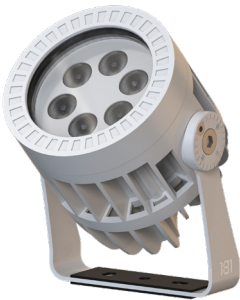
Multi Color RGBW

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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, color consistency, and long-term reliability.

The Beam F12 multicolor RGBW is perfect for a dynamic lighting scheme with High-quality white light and saturated colors, all with optimum color accuracy. 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	4in1
Channels (/pc)	4
Color Range	RGBW
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)	404 (RGBW3000K 45°)		
Maximum Data Run Length DMX(RDM) (pcs)	@45fps	64	
Maximum Data Run Length PxLNet (pcs)	@40fps	512	
	@60fps	256	
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
☐ RGBW2700K
☐ RGBW3000K
☐ RGBW4000K
☐ RGBW5000K

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

¹ Both Horizontal and Vertical alignment available

Control
☐ DMX (RDM)
☐ PxLNet

Accessories
☐ Half Glare Shield
☐ Honeycomb

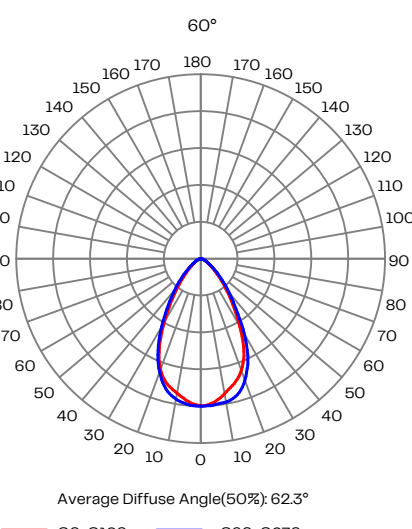
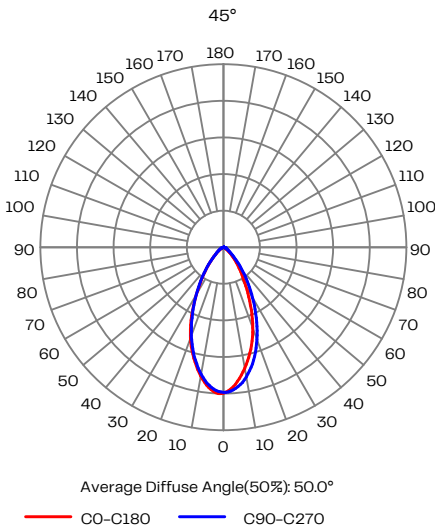
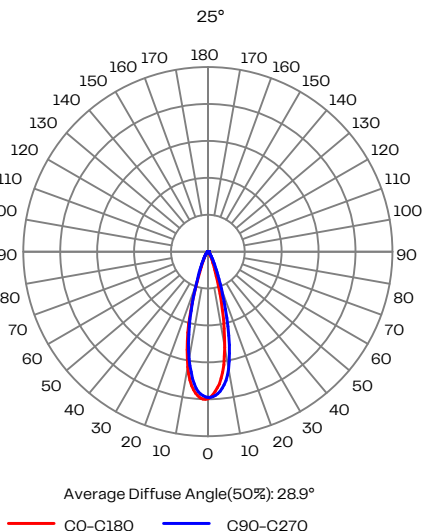
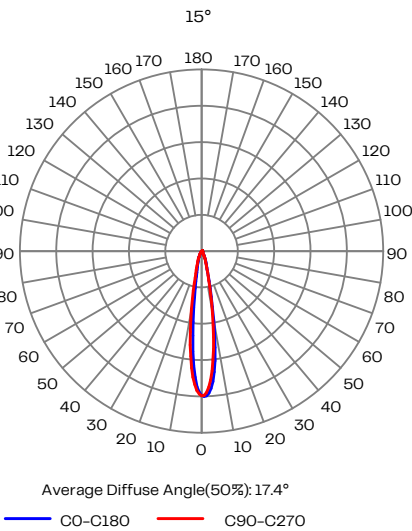
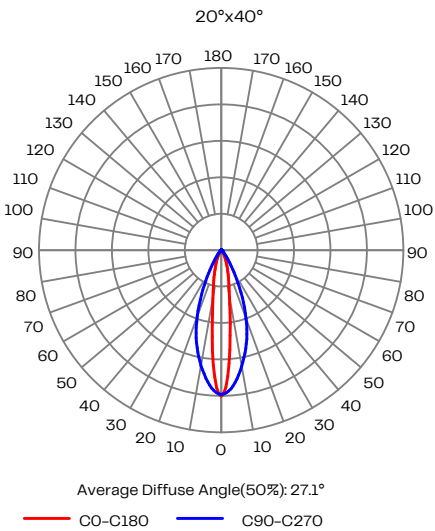
Lighting Specifications

Beam F12

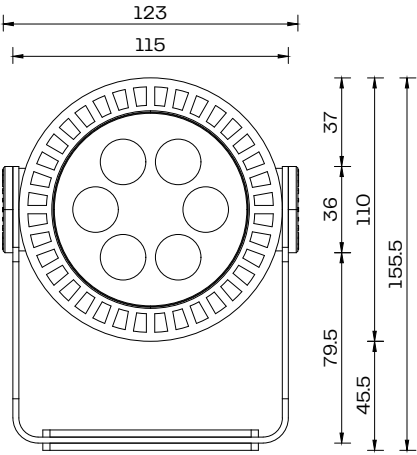
	Full White (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
RGBW2700K 15°	410	177	276	94	280
RGBW2700K 25°	418	180	282	96	286
RGBW2700K 45°	422	182	285	97	289
RGBW2700K 60°	414	179	279	95	283
RGBW2700K 20°x40°	397	171	268	91	271
RGBW3000K 15°	427	184	288	98	292
RGBW3000K 25°	436	188	294	100	298
RGBW3000K 45°	440	190	297	101	301
RGBW3000K 60°	432	186	291	99	295
RGBW3000K 20°x40°	414	179	279	95	283

	Full White (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
RGBW4000K 15°	436	188	294	100	298
RGBW4000K 25°	445	192	300	102	304
RGBW4000K 45°	449	194	303	103	307
RGBW4000K 60°	440	190	297	101	301
RGBW4000K 20°x40°	423	182	285	97	289
RGBW5000K 15°	432	186	291	99	295
RGBW5000K 25°	441	190	297	101	301
RGBW5000K 45°	445	192	300	102	304
RGBW5000K 60°	436	188	294	100	298
RGBW5000K 20°x40°	419	181	282	96	286

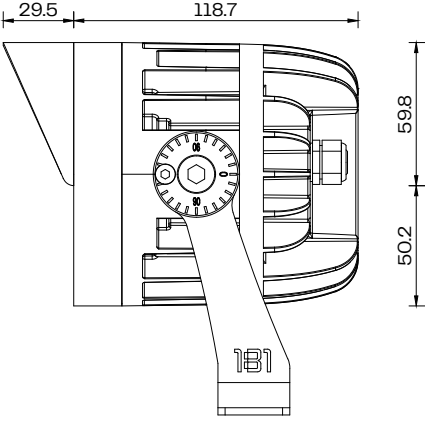
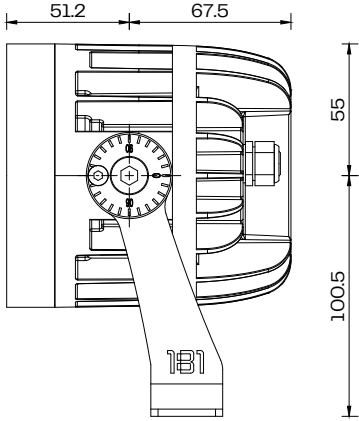
Photometric Distribution



Dimensions



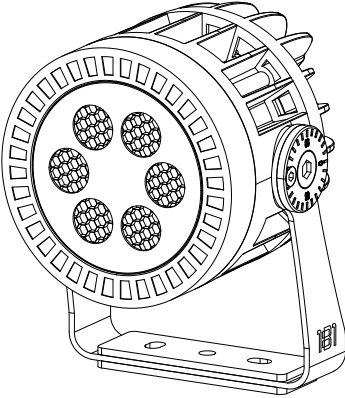
Beam F12 Multi Color



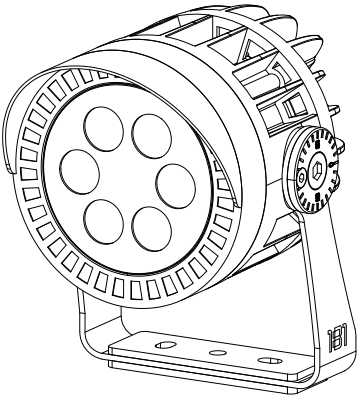
Half Glare Shield

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

Accessories Options

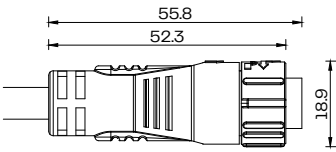


Honeycomb

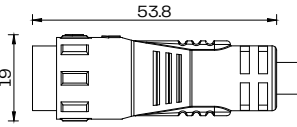
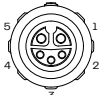


Half Glare Shield

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
3428101	Beam F12 RGBW2700K 15°
3428105	Beam F12 RGBW2700K 25°
3428109	Beam F12 RGBW2700K 45°
3428113	Beam F12 RGBW2700K 60°
3428117	Beam F12 RGBW2700K 20°x40°
3428102	Beam F12 RGBW3000K 15°
3428106	Beam F12 RGBW3000K 25°
3428110	Beam F12 RGBW3000K 45°
3428114	Beam F12 RGBW3000K 60°
3428118	Beam F12 RGBW3000K 20°x40°
3428103	Beam F12 RGBW4000K 15°
3428107	Beam F12 RGBW4000K 25°
3428111	Beam F12 RGBW4000K 45°
3428115	Beam F12 RGBW4000K 60°
3428119	Beam F12 RGBW4000K 20°x40°
3428104	Beam F12 RGBW5000K 15°
3428108	Beam F12 RGBW5000K 25°
3428112	Beam F12 RGBW5000K 45°
3428116	Beam F12 RGBW5000K 60°
3428120	Beam F12 RGBW5000K 20°x40°

Accessories

Reference	Description
3990971	Honeycomb
3990981	Half Glare Shield