

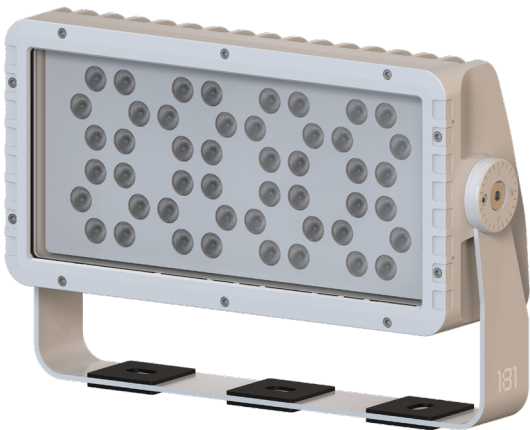
Beam F120 AC White

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

The Beam F120 White is perfect for a lighting scheme with efficient and High-quality white light. They come with environmental protection including a coastal proof rating. With beam angles from 10° 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)	120	
Input Voltage (V AC)	115-277	
LEDs (/pc)	48	
Pixels (/pc)	1	
Flicker Frequency (kHz)	16	
LED Type	SMD3030	
Channels (/pc)	3	
Color Range	Single Color	
CRI	≥80 (Custom on request)	
Control	DMX(RDM)/PxLNet	
Dimming	16 Bit	

Installation conditions & Lighting Data		
Maximum Run Length 115 V AC (pcs)	5	
Maximum Run Length 230 V AC (pcs)	10	
Delivered Lumen Full White (lm)	11210 (3000K 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	M20 7Pin
Weight (kg/pc)	7,6
Dimensions WxHxD (mm)	405 x 275 x 120

Options

Color/CCT	
☐	2700K
☐	3000K
☐	4000K
☐	5000K

Optics	
☐	10°
☐	15°
☐	30°
☐	45°
☐	60°
☐	30°x60° ¹
☐	10°x40° ¹
☐	10°x60° ¹

¹ Both Horizontal and Vertical alignment available

Control	
☐	DMX (RDM)
☐	PxLNet

Accessories	
☐	Half Glare Shield
☐	Honeycomb

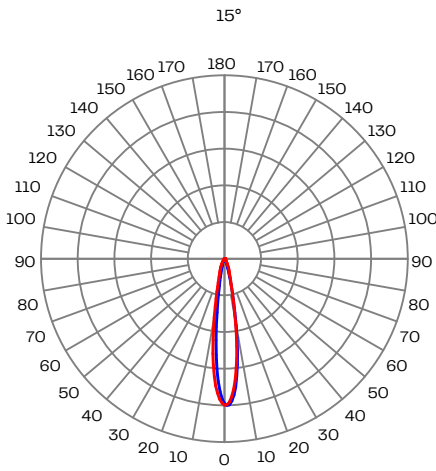
Lighting Specifications

Beam F120 AC

	Full White (lm/m)
2700K 10°	10298
2700K 15°	10488
2700K 30°	10175
2700K 45°	10650
2700K 60°	10222
2700K 30°x60°	10180
2700K 10°x40°	10652
2700K 10°x60°	10649
3000K 10°	10840
3000K 15°	11040
3000K 30°	10710
3000K 45°	11210
3000K 60°	10760
3000K 30°x60°	10715
3000K 10°x40°	11212
3000K 10°x60°	11209

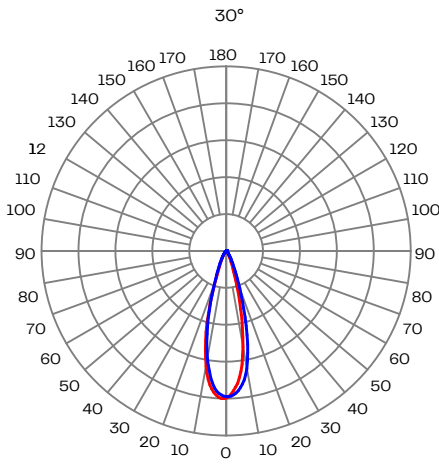
	Full White (lm/m)
4000K 10°	11274
4000K 15°	11482
4000K 30°	11138
4000K 45°	11658
4000K 60°	11190
4000K 30°x60°	11143
4000K 10°x40°	11660
4000K 10°x60°	11657
5000K 10°	10190
5000K 15°	10378
5000K 30°	10067
5000K 45°	10537
5000K 60°	10114
5000K 30°x60°	10072
5000K 10°x40°	10539
5000K 10°x60°	10536

Photometric Distribution



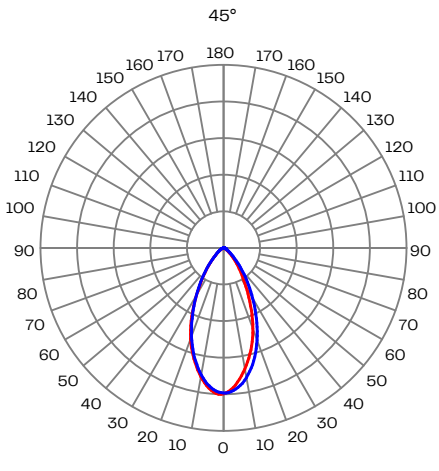
Average Diffuse Angle(50%): 17.1°

— C0-C180 — C90-C270



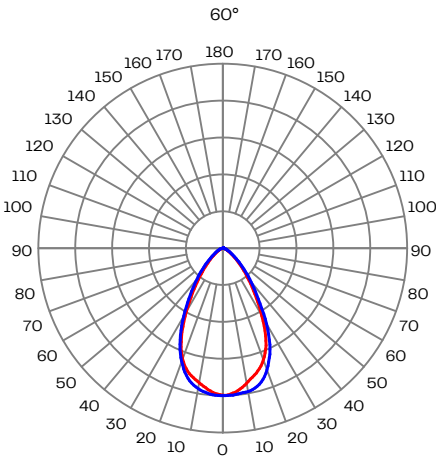
Average Diffuse Angle(50%): 28.9°

— C0-C180 — C90-C270



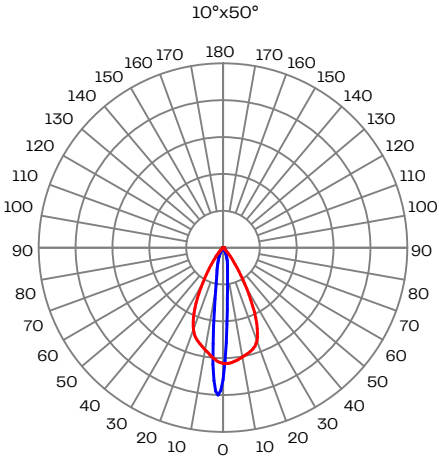
Average Diffuse Angle(50%): 50.0°

— C0-C180 — C90-C270



Average Diffuse Angle(50%): 62.3°

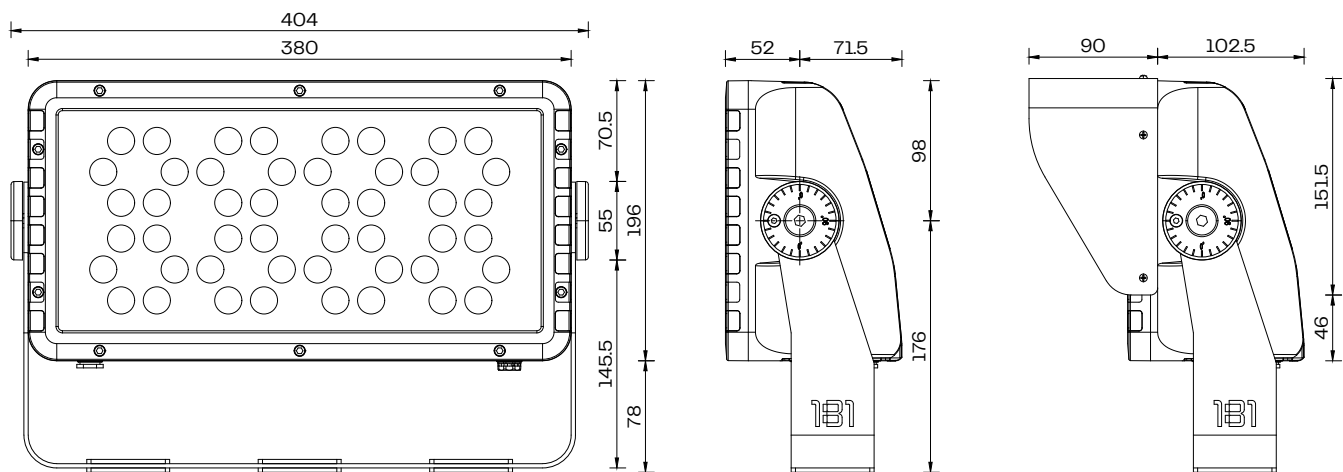
— C0-C180 — C90-C270



Average Diffuse Angle(50%): 32.8°

— C0-C180 — C90-C270

Dimensions

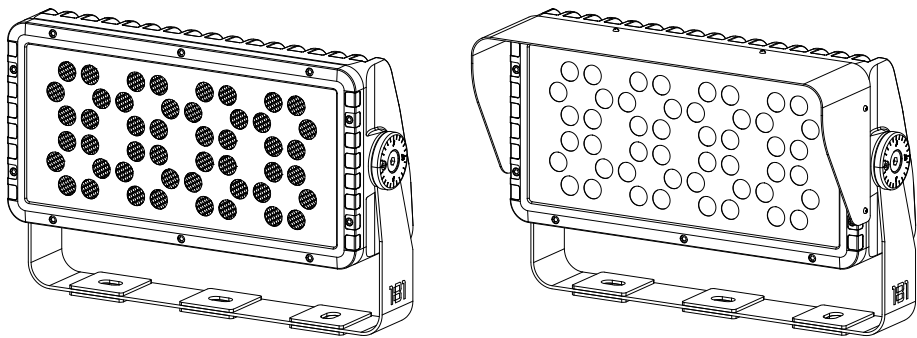


Beam F120 AC White

Half Glare Shield

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

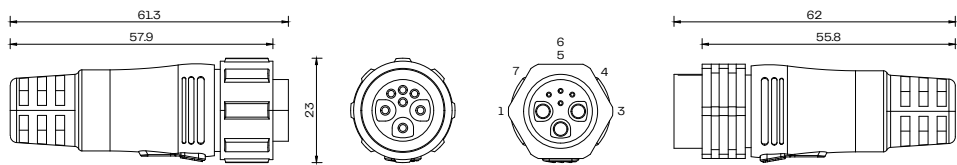
Accessories Options



Honeycomb

Half Glare Shield

Connection



M20 Male Connector

M20 Female Connector

Connector Pin

Pin 1	Brown	L (115-277 V AC)
Pin 2	Yellow/Green	PE
Pin 3	Blue	N (115-277 V AC)
Pin 4	Black	GND
Pin 5	Red	Program
Pin 6	Blue	Data -
Pin 7	Green	Data +

Product References

Beam

Reference	Description
3439144	Beam F120 AC 2700K 10°
3439148	Beam F120 AC 2700K 15°
3439152	Beam F120 AC 2700K 30°
3439156	Beam F120 AC 2700K 45°
3439160	Beam F120 AC 2700K 60°
3439168	Beam F120 AC 2700K 30°x60°
3439164	Beam F120 AC 2700K 10°x40°
3439172	Beam F120 AC 2700K 10°x60°
3439145	Beam F120 AC 3000K 10°
3439149	Beam F120 AC 3000K 15°
3439153	Beam F120 AC 3000K 30°
3439157	Beam F120 AC 3000K 45°
3439161	Beam F120 AC 3000K 60°
3439169	Beam F120 AC 3000K 30°x60°
3439165	Beam F120 AC 3000K 10°x40°
3439173	Beam F120 AC 3000K 10°x60°
3439146	Beam F120 AC 4000K 10°
3439150	Beam F120 AC 4000K 15°
3439154	Beam F120 AC 4000K 30°
3439158	Beam F120 AC 4000K 45°
3439162	Beam F120 AC 4000K 60°
3439170	Beam F120 AC 4000K 30°x60°
3439166	Beam F120 AC 4000K 10°x40°
3439174	Beam F120 AC 4000K 10°x60°
3439147	Beam F120 AC 5000K 10°
3439151	Beam F120 AC 5000K 15°
3439155	Beam F120 AC 5000K 30°
3439159	Beam F120 AC 5000K 45°
3439163	Beam F120 AC 5000K 60°
3439171	Beam F120 AC 5000K 30°x60°
3439167	Beam F120 AC 5000K 10°x40°
3439175	Beam F120 AC 5000K 10°x60°

Accessories

Reference	Description
3990975	Honeycomb
3990985	Half Glare Shield