

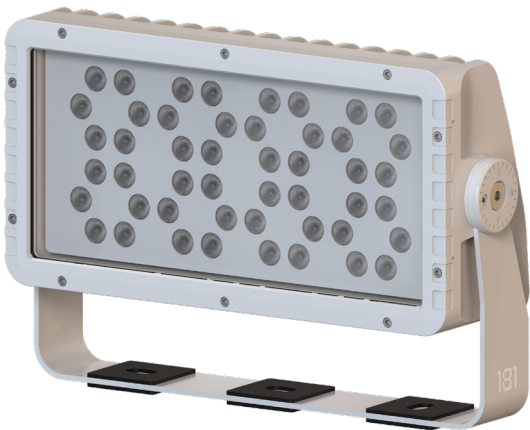
Beam F120 AC Tunable White

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 F120 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)	120
Input Voltage (V AC)	115-277
LEDs (/pc)	48
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 115 V AC (pcs)	5	
Maximum Run Length 230 V AC (pcs)	10	
Delivered Lumen Full White (lm)	9722 (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	M20 7Pin
Weight (kg/pc)	7,6
Dimensions WxHxD (mm)	405 x 275 x 120

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	

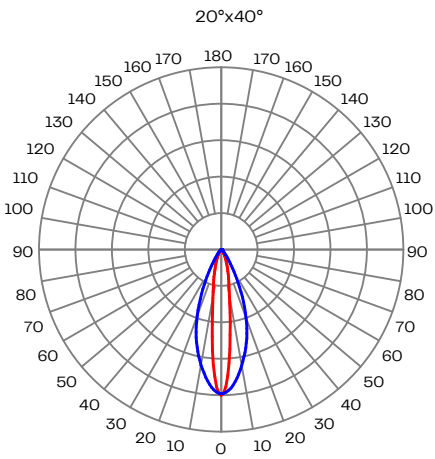
Accessories	
☐ Half Glare Shield	
☐ Honeycomb	

Lighting Specifications

Beam F120 AC

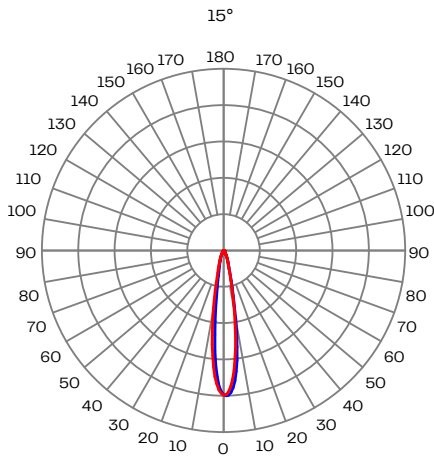
	Full White (lm/m)	Cold White (lm/m)	Warm White (lm/m)
Tunable White 1800-6000K 15°	9529	5661	5834
Tunable White 1800-6000K 25°	9626	5718	5893
Tunable White 1800-6000K 45°	9722	5775	5952
Tunable White 1800-6000K 60°	9433	5604	5775
Tunable White 1800-6000K 20°x40°	9144	5432	5599
Tunable White 2700-6000K 15°	9724	5777	5953
Tunable White 2700-6000K 25°	9822	5835	6013
Tunable White 2700-6000K 45°	9920	5893	6074
Tunable White 2700-6000K 60°	9626	5718	5893
Tunable White 2700-6000K 20°x40°	9331	5543	5713

Photometric Distribution



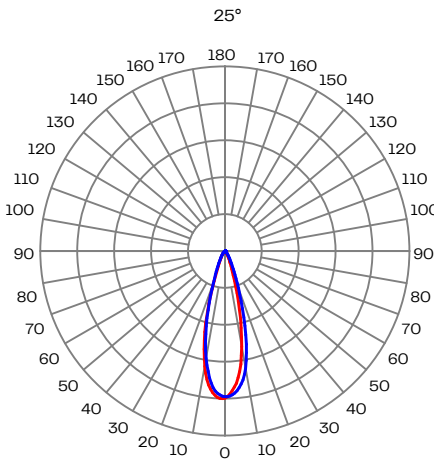
Average Diffuse Angle(50%): 27.1°

C0-C180 C90-C270



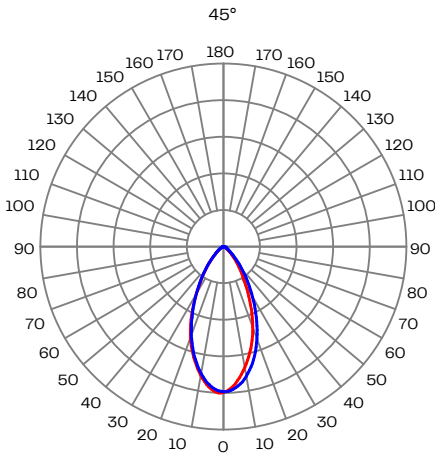
Average Diffuse Angle(50%): 17.4°

C0-C180 C90-C270



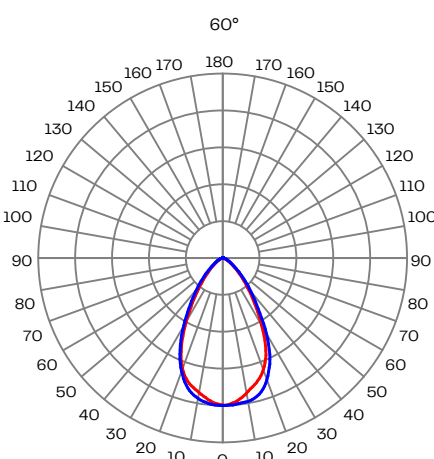
Average Diffuse Angle(50%): 28.9°

C0-C180 C90-C270



Average Diffuse Angle(50%): 50.0°

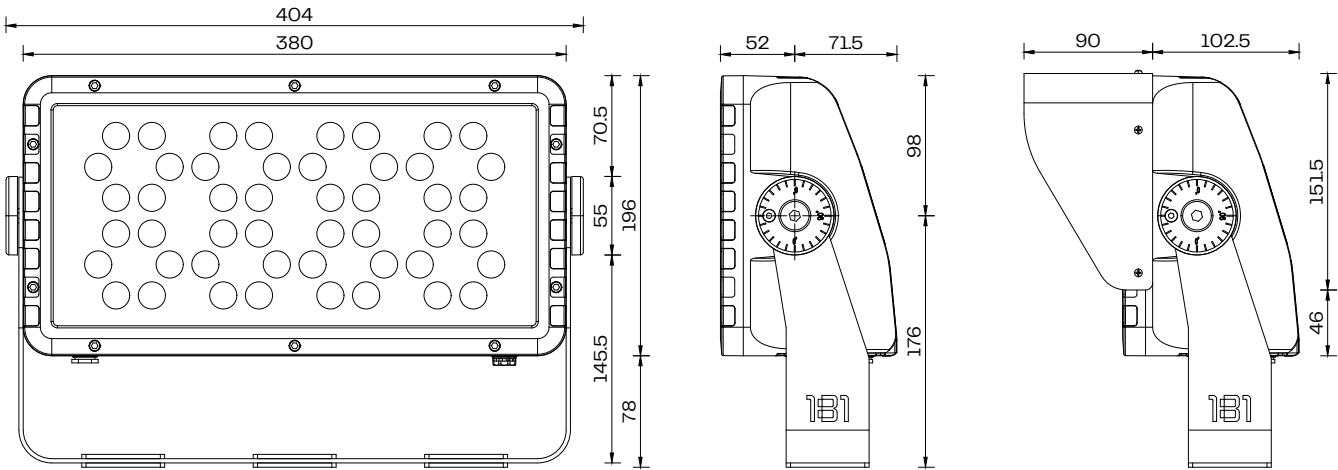
C0-C180 C90-C270



Average Diffuse Angle(50%): 62.3°

C0-C180 C90-C270

Dimensions

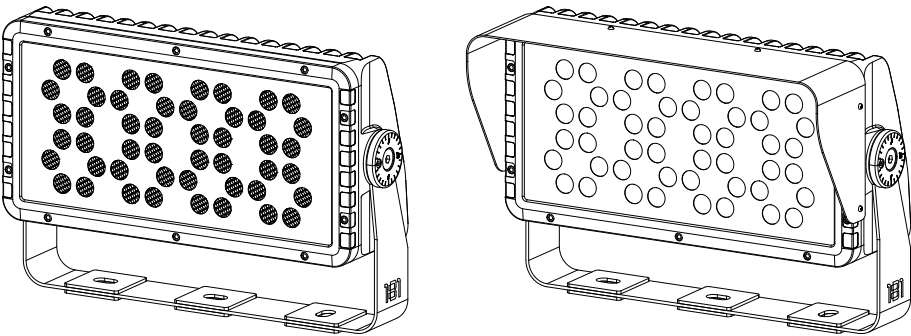


Beam F120 AC Tunable White

Half Glare Shield

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

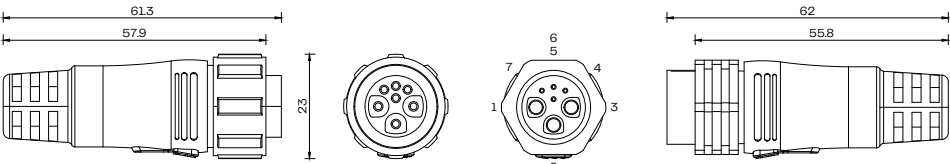
Accessories Options



Honeycomb

Half Glare Shield

Connection



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
3435182	Beam F120 AC Tunable White 1800-6000K 15°
3435184	Beam F120 AC Tunable White 1800-6000K 25°
3435186	Beam F120 AC Tunable White 1800-6000K 45°
3435188	Beam F120 AC Tunable White 1800-6000K 60°
3435190	Beam F120 AC Tunable White 1800-6000K 20°x40°
3435192	Beam F120 AC Tunable White 2700-6000K 15°
3435194	Beam F120 AC Tunable White 2700-6000K 25°
3435196	Beam F120 AC Tunable White 2700-6000K 45°
3435198	Beam F120 AC Tunable White 2700-6000K 60°
3435200	Beam F120 AC Tunable White 2700-6000K 20°x40°

Accessories

Reference	Description
3990975	Honeycomb
3990985	Half Glare Shield