COOLON

BRILLIANT CONNECTED LIGHTS

BUTCH2

LED FLOOD LIGHT
300W / 600W

Versatile and high performing flood light

Engineered for the toughest industrial environments, Butch2 is the next generation of high-performance industrial flood lighting. Designed with cutting-edge technology, it delivers exceptional power in an ultra-lightweight form. Featuring a robust, aerodynamic design, advanced cooling capabilities, and seamless digital connectivity, Butch2 ensures maximum efficiency, durability, and intelligent control for any application.

The Butch2 amber (AMB) variant is also available in Dark Sky compliant version.

Designed for use in:

- Area Lighting
- Exterior Walls
- Flood Lighting
- Security Lighting
- Workshops
- Billboards
- High Mast
- Sports Grounds

Mesh Backbone

3G VIBRATION TESTED

3G Vibration Tested

DARK SKY

Dark Sky Compliant

Wirepas

AUSTRALIAN DEVELOPED
SMART TECHNOLOGY

Aerodynamic & Thermal Excellence

Designed for enhanced wind resistance and superior heat dissipation, Butch2 operates at peak efficiency while maintaining a sleek and rugged profile.

Smart Connectivity with BitCortex Cloud

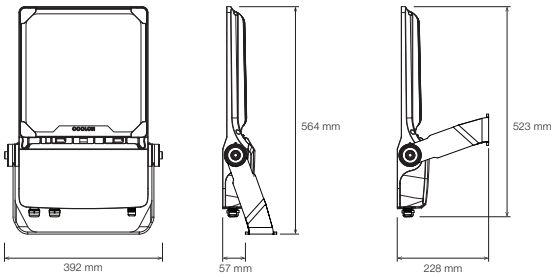
Butch2 integrates seamlessly with BitCortex Cloud, enabling real-time monitoring, remote diagnostics, and dynamic control for optimized performance and predictive maintenance.

Unmatched Power & Efficiency

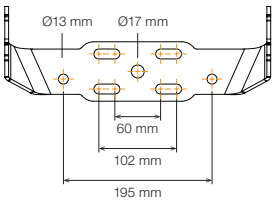
Butch2 delivers extraordinary illumination with optimized energy consumption, ensuring superior performance in the harshest conditions.

DIMENSIONS

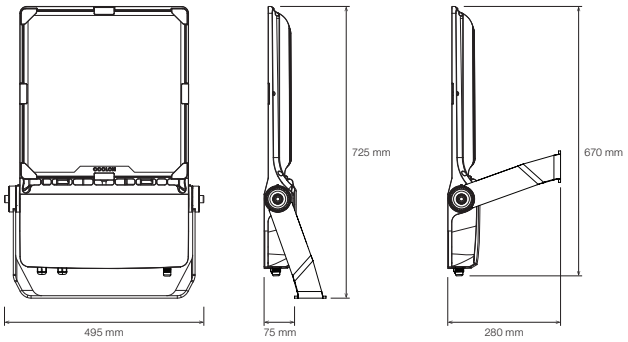
BLF2-300
Butch2 LED Floodlight
300 W Version



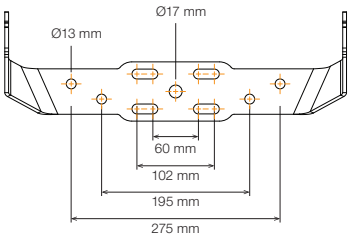
BLF2-300 Bracket Footprint



BLF2-600
Butch2 LED Floodlight
600 W Version



BLF2-600 Bracket Footprint



TECHNICAL SPECIFICATIONS

Product	Butch2 LED Flood Light	
Model	BLF2-300	BLF2-600

Optical Characteristics [1] [2]		
Luminous Flux (Photometered)	50,000 – 60,000 lm	105,000 – 115,000 lm
CCT	CWT / NWT / AMB	
CRI	CWT: 75 / NWT: 75 / AMB: 70	

Electrical Characteristics (Luminaire) [1] [2]		
Power Consumption	300 W Typical	600 W Typical
Nominal Input Voltage	230 VAC	
Input Voltage Range	200 – 240 VAC	
Frequency Range	50 / 60 Hz	
Power Factor	≥0.90 / 230 VAC	
Surge Protection	10 KV	

Inrush and Leakage Currents [3]	**300 W**	**600 W**
Peak Inrush Current (A) @230 VAC	11 A	20.4 A
T_{width} (ms)	2 ms	3 ms
I^2t (A^2s)	0.27 A2s	1.4 A2s
Leakage Current	≤0.75 mA @230 VAC	≤1.5 mA @230 VAC

Max Number of Luminaires per MCB @ 230 VAC [4]	**300 W**	**600 W**
B16	6	3
C16	8	4
D16	9	4

Lighting Control [5]	
Dimming	15 – 100%, including OFF
Control Modes	Grouping, scenes, scheduling

Wireless Communication	
Protocol	Wirepas
Operating Band	2.4 GHz, 40 Channels
Typical Range [6] [7]	Up to 200 metres line of sight
Data Encryption	AES-128
Wirepas Mode	Router, low latency

Sail Area	**300W**	**600W**
Front	0.167m^2	0.283m^2
Side	0.033m^2	0.048m^2
Top	0.045m^2	0.062m^2

Environmental	
IP Rating	IP66
Impact Rating	IK08
Salt Spray Tested	Yes
Operating Temp. Range	-20°C to +50°C
Vibration	3G
Thermal Management Type	Active/Continuous
Expected Lifespan	60,000 Hours to 70% Brightness
Material Composition (Body)	Aluminium Alloy
Material Composition (Optics)	Polycarbonate
Material Composition (Transparent Front)	Tempered Glass
Cable Entry Options	2 x M20
Cable Diameter [8]	8 – 14 mm

Compliance & Applicable Standards	
EMC	AS/NZS CISPR15
	AS/NZS 4268
	IEC 61000-4-5
Safety	AS/NZS 60598.1
	AS/NZS 60598.2.5
	ANSI C136.31
Photometry	LM-79
Dark Sky Compliant	D.S. N°1 (Chile Decreto Supremo No. 1 of 2022) [9] [10]
	ADSA Approved (Category 1 Australasian Dark Sky Alliance) [10]

Weight/Packaging	**300 W**	**600 W**
Luminaire Weight	8 kg	13 kg
Packaging Dimensions	640 x 420 x 150 mm	790 x 540 x 150 mm
Packaged Weight	10 kg	15 kg

Warranty	
Warranty	5 years warranty as standard

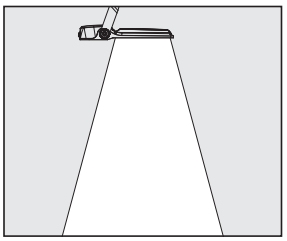
[1] Optical and electrical characteristics are measured using Neutral White LEDs (NWT).
[2] Reading taken while test unit operating in steady state. Ambient temperature during testing is typically 25 °C. Individual unit behaviour may differ due to electronic component tolerance and ambient conditions. Product parameters and application suitability shall be checked by the user prior to commissioning.
[3] Note: At 230 VAC input, 25 °C cold start, 10% Ipk-10% Ipk.
[4] Number of Luminaires is subject to relative RCBO properties, assuming a 30mA leakage current limit and RCBO steady state current load not exceeding 60%, 70% and 80% for the B, C, D type MCB respectfully.
[5] Lighting Control via BitCortex. Gateway is required.
[6] Wireless range might significantly vary depending on the elevation above the ground, presence of metal obstacles and environmental conditions.
[7] Wireless coverage could be optimised with increased number of devices forming mesh network.
[8] Always use the correct gland rubber seal size for the cable diameter. Using a larger seal on a smaller cable or a smaller seal on a larger cable can compromise the IP rating, cause cable damage, or result in improper installation.
[9] Certified optics under D.S. N°1 is T4 optics only.
[10] Certified permitted tilt angle: 0°.

COLOUR TEMPERATURES

All colour temperatures are indicative. Some variation can occur.

ILLUMINANCE AT DISTANCE

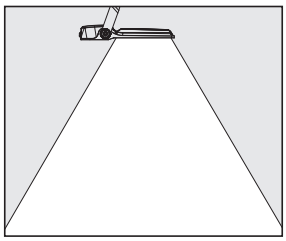
NARROW Optical Distribution



	300W	600W
2m	47,819	94,677
4m	11,955	23,669
6m	5,313	10,520
8m	2,989	5,917
10m	1,912	3,787

E_C at Centre (Lux)

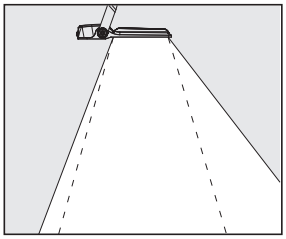
MEDIUM Optical Distribution



	300W	600W
2m	13,304	26,218
4m	3,326	6,555
6m	1,478	2,913
8m	832	1,639
10m	532	1,049

E_C at Centre (Lux)

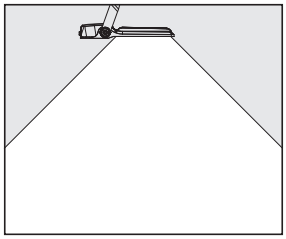
T4 Asymmetric Type 4 Optical Distribution



	300W	600W
2m	1,853	3,858
4m	463	965
6m	206	429
8m	116	241
10m	74	154

E_C at Centre (Lux)

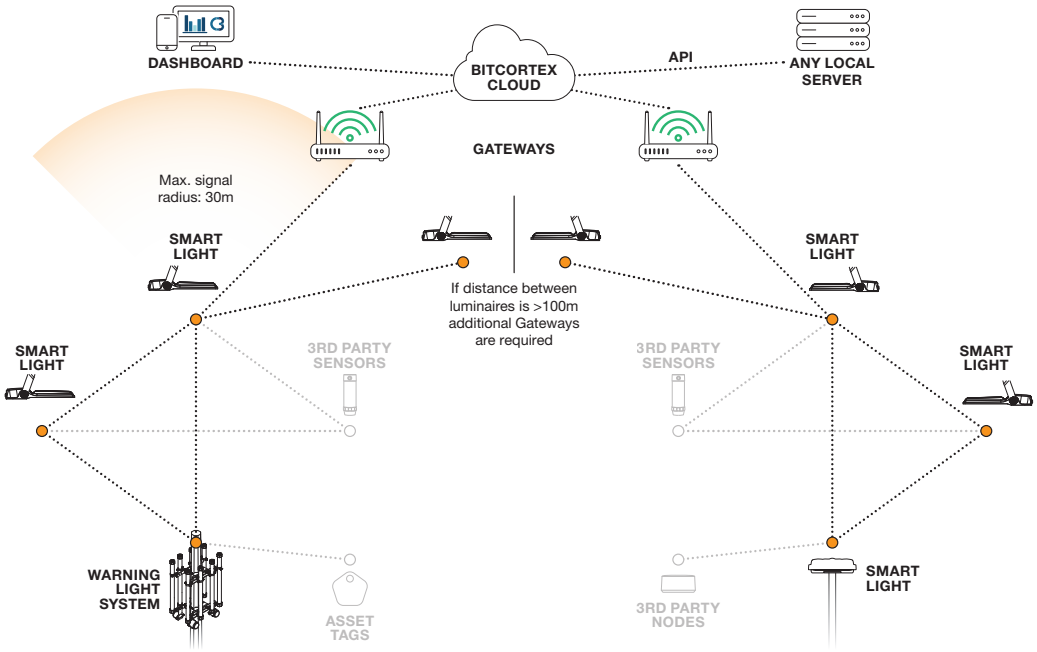
WIDE Optical Distribution



	300W	600W
2m	7,406	14,478
4m	1,851	3,620
6m	823	1,609
8m	463	905
10m	296	579

E_C at Centre (Lux)

MESH NETWORK



ORDERING EXAMPLE

BLF2 - 300 - NWT - T4 - MP

PRODUCT	TYPE	COLOUR TEMPERATURE	OPTICS	SUPPLY OPTION
BLF2	300	NWT	T4	MP

PRODUCT		TYPE		COLOUR TEMPERATURE		OPTICS		SUPPLY OPTION	
BLF2	Butch2 LED Flood light	300	300W Version	CWT	Cool White	NARROW	Narrow Optical Distribution	MP	Mains Powered
		600	600W Version	NWT	Neutral White	MEDIUM	Medium Optical Distribution		
				AMB	Amber	WIDE	Wide Optical Distribution		
						T4	Asymmetric Type 4 Optical Distribution		