

ARCDOT™

Excellent for large scale matrix applications due to its advanced pixel mapping capabilities, the ArcDot uses a Cree MC-E RGBW Multi-chip with high light output that features a built-in intelligent electronic control system. This guarantees flicker free operation and overheating protection whilst remote addressing, calibration and status messaging is also included. Built to an IP67 rating ensures the unit is capable of withstanding tough weather conditions but is also perfect for a wide variety of interior installations.



KEY FEATURES

Flicker free operation with advanced pixel mapping, remote addressing and status messaging with colour, lash and colour temperature options available.

Lumen Output & Light Source

Lumen output of 139 lm is provided by high-power multichip LED.

Power Consumption

5.5 W energy consumption provides excellent efficiency with low operating costs.

Physical

The durable cast aluminum body with opaque polycarbonate dome provides a compact, stylish and easy-to-mount solution. The fixtures physical dimensions are 77 × 71 mm (3.03 × 2.80 in) and it weighs 0.2 kg (0.44 lbs).

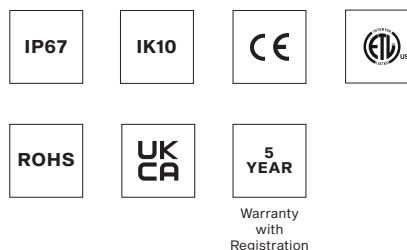
COLOURS



CONTROL & PROTOCOLS



STANDARD & SPECIFICATION



COLOUR TEMPERATURE



* UPON REQUEST

OPTIC OPTIONS



FINISH OPTIONS



ARCDOT SPECIFICATION

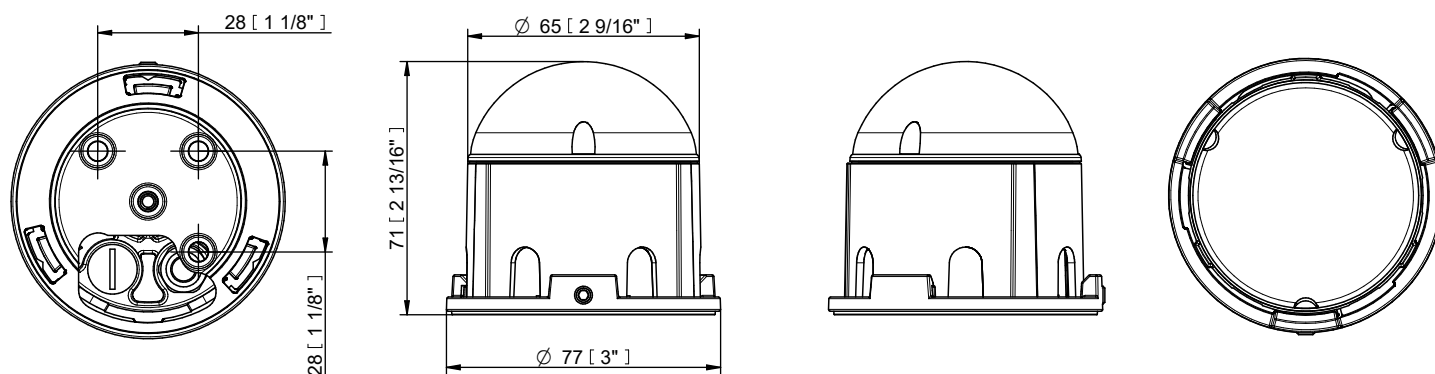
ELECTRICAL	Input Voltage	48 V	
	Typical Power Consumption	5.5 W / 48 V	
OPTICAL	Light Source	1 x 15 W Multichip LEDs	
	Colour Variants	RGBW (W - 6500 K) RGBA PW (W - 3000 K)	
	Beam Angle	non-optic	
	Lumen Output Delivered	139 lm (RGBW 7° W - 6500 K, all LEDs on full, 700 mA)	
	Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F	
CONTROL	Control System	ArcPixel Power, ArcPower Unit Pixel	
	Power Supply	ArcPixel Power, ArcPower Unit Pixel	
PHYSICAL	Width x Height	Ø 77 x 71 mm Ø 3.03 x 2.80 in.	
	Weight	0.2 kg 0.44 lbs	
	Finish Options	Standard Colour - Graphite Black (RAL 9011) Silver (RAL 9006)	
		Cost Option - Custom RAL	
	Housing	Cast Aluminium	
		Polycarbonate Dome	
	Cables / Connections	Li9Y11Y, 2 x AWG16 + 1 x AWG20, Chogori IP67 connector	
	Mounting Method	Mounting Back Plate	
	Protection Factor	IP67 / Suitable For Wet Locations	
	IK Rating	IK10	
	Cooling System	Convection	
	Operating Ambient Temperature	-20 °C / +50 °C (-4 °F / +122 °F)	
	Operating Temperature	+35 °C @ Ambient +25 °C (+95 °F @ Ambient +77 °F)	
CERTIFICATION	Listings	ETL / cETL, CE, RoHS , UKCA	
ACCESSORIES	Cable Connection ArcDot 1 5 10m		
	Connector T- CGRBA (3-pin)		
	Connector CGRBB-03BMMA-SL8001 (Male)		
	Connector CGRBB-03BFFA-SL8001 (Female)		
	Terminator Active for Arc Dot / ArcSource Outdoor 4MC Pixel		
	Terminator Passive for Arc Dot / ArcSource Outdoor 4MC Pixel		
	Cable, w/out connectors (1m)		
	Ferrite GTFC 16-8-16		

PHOTOMETRIC OVERVIEW

	Lumen Output (lm) - Clear Glass		
	RGBCW (6500 K)	RGBA	PW (3000 K)
Flat Clear Glass	172	152	141
Frosted Dome	207	183	169
Opaque dome	139	123	114

DIMENSIONS

ArcDot



ACCESSORIES

Cable Connection ArcDot 1 / 5 / 10 m



Connector T- CGRBA (3-pin)



Connector CGRBB-03BMMA-SL8001 (Male)



Connector CGRBB-03BFFA-SL8001 (Female)



Terminator Active



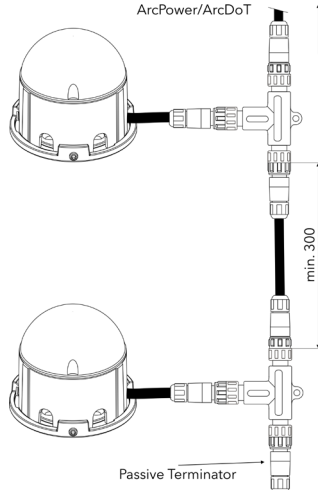
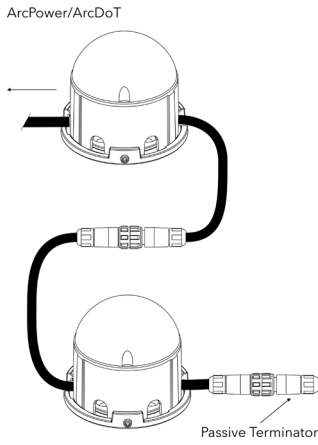
Terminator Passive - terminal part of ArcDot connection.



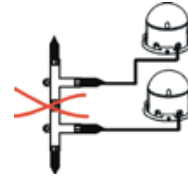
CONNECTION

ArcDots can be connected one by one with using connectors CGRBB-03BMMA-SL8001 and CGRBB-03BFFASL8001. T-connectors can be used in case if we need connect ArcDot indirectly one after another.

Example of connection

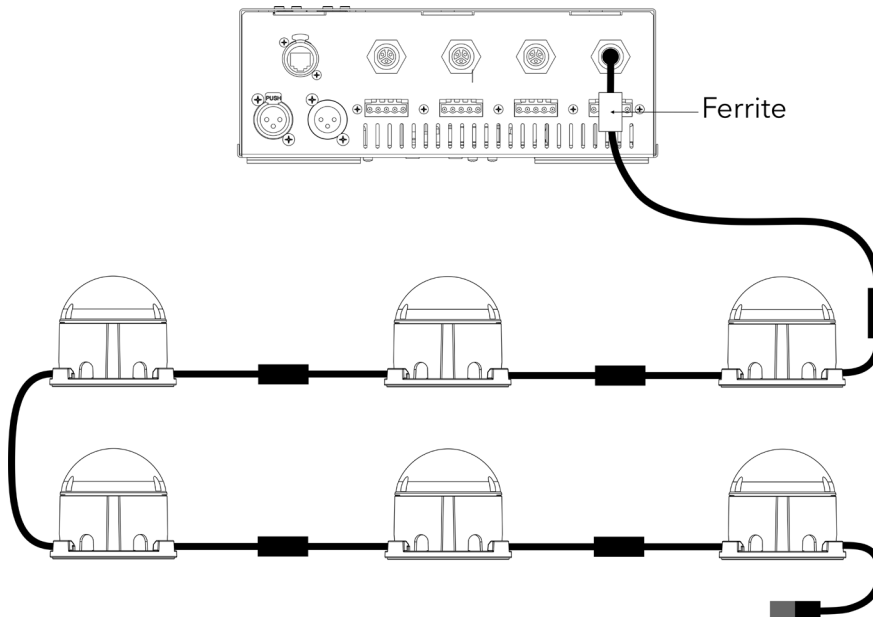


The minimum cable length of 0.3m between two T-connectors has to be kept in case that the pixel sorting is executed manually from the ArcPix Power menu.



Every ArcDot line has to be terminated with the passive terminator!

ArcPixel Power / ArcPower Unit Pixel

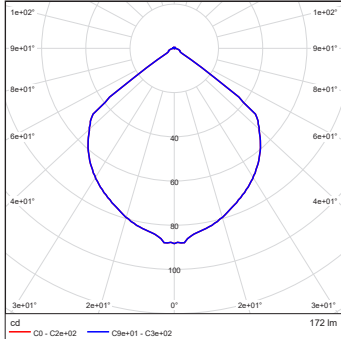


PROJECTED AREA

	m ²	ft ²
Front (rear)	0,004	0,046
Side	0,04	0,046
Top	0,005	0,05

PHOTOMETRIC DATA

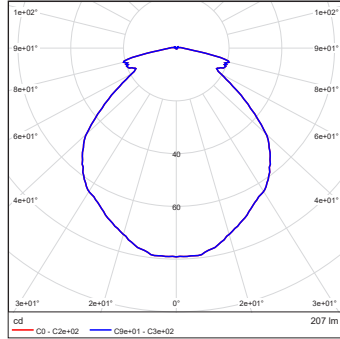
ArcDot RGBCW Flat-Clear Glass



Distance [m]	Cone diameter [m]	E ₀ ^(0°) E ₁₀ ^(C0)	E ₀ ^(0°) E ₁₀ ^(C0)	Illuminance [lx]
0.50	1.3	51.4°	353	43
1.0	2.5	51.4°	88	11
1.5	3.8	51.4°	39	4.8
2.0	5.0	51.4°	22	2.7
2.5	6.3	51.4°	14	1.7
3.0	7.5	51.4°	9.8	1.2

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C2e+02 (Beam angle: 102.8°)

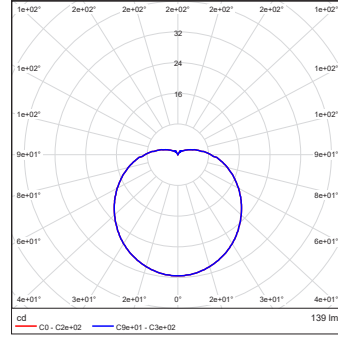
ArcDot RGBCW Frosted dome



Distance [m]	Cone diameter [m]	E ₀ ^(0°) E ₁₀ ^(C0)	E ₀ ^(0°) E ₁₀ ^(C0)	Illuminance [lx]
0.50	1.2	49.6°	317	43
1.0	2.3	49.6°	79	11
1.5	3.5	49.6°	35	4.8
2.0	4.7	49.6°	20	2.7
2.5	5.9	49.6°	13	1.7
3.0	7.0	49.6°	8.8	1.2

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C2e+02 (Beam angle: 99.2°)

ArcDot RGBCW Opaque dome



Distance [m]	Cone diameter [m]	E ₀ ^(0°) E ₁₀ ^(C0)	E ₀ ^(0°) E ₁₀ ^(C0)	Illuminance [lx]
0.50	2.5	67.8°	126	3.4
1.0	4.9	67.8°	32	0.85
1.5	7.4	67.8°	14	0.38
2.0	9.8	67.8°	7.9	0.21
2.5	12	67.8°	5.0	0.14
3.0	15	67.8°	3.5	0.09

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C2e+02 (Beam angle: 135.6°)