









MaxiDEPTH Series 102 / 302 DMX controllable









MaxiDEPTH Series 102/302

DMX controllable MaxiDEPTH - Datasheet



KEY FEATURES

- IP68 (Depth 1 Meter temporary)
- IK10 (Optional)
- 48VAC Data over Power 2 wire system
- 512 DMX RGBW Controllable
- 150/250mm Recessed sleeve available
- 15°/25°/40°/170° (no optic)
- MaxiSEAL (Optional)

Product Overview

Our IP68 MaxiDEPTH fitting is available in 2 different sizes delivering different light outputs, available in clear lens this makes the MaxiDEPTH series a perfect recessed lighting solution. Manufactured from quality materials with an optional MaxiSEAL finish and incorporating our Patented 2 wire data over power technology giving full DMX 512 control down the 2 power wires making it the simplest to install and most cost effective product of its type in the market place today. MaxiDEPTH has a Drive-Over rating of 5000kg (Optional), IK10 glass lens and an IP68 factory-sealed optical chamber.



MaxiDEPTH 102 Recessed



MaxiDEPTH 302 Recessed

Specifications	102	302		
Dimming				
DMX512 Dimmable (Data Over power):	YES	YES		
DMX 512 refresh rate:	44hz	44hz		
LED Options				
(Cree XQE Led's) RGBW:	YES	YES		
(Cree XQE Led's) RGBWW:	YES	YES		
Intelligent white 2700k-6000K:	YES	YES		
Beam Angles				
15/25/40/170 (no optic)	YES	YES		
Electrical specification				
Power input:	48VAC Data Over F	Power MaxiLINK system		
LED Current:	200ma	200ma		
Watts per unit:	4.8w	14.4w		
Max. Units per system 14 AWG (1.5mm sq) cable:	50	16		
Max distance from 1st to last unit 14 AWG (1.5mm sq) cable:	100m	100m		
Lumens RGBW Clear Glass (Full On):	150	450		
Lumens Intelligent white (Full On):	250	750		
Lumen Maintenance 85%:	90,000Hrs	90,000Hrs		
System Cable Distances				
Max. 14 AWG (1.5mm sq) cable from MaxiLINK to 1st fitting:	15m	15m		
Max. 10 AWG (2.5mm sq) cable from MaxiLINK to 1st fitting:	75m	75m		
Protection				
IP68 (Depth 1 Meter temporary)	YES	YES		
Impact Protection (Standard):	Pedestrian traffic	Pedestrian traffic		
Drive over 5000Kg (Optional):	IK10	No		
Thermal Protection cut out at 70°C:	YES	YES		
Operation Temperature:	-25 to +50	-25 to +50		
Finishes Options				
MaxiSEAL Black:	YES	YES		
MaxiSEAL Silver:	YES	YES		
Black / Silver Anodised:	YES	YES		
Durable Stainless steel:	YES	YES		
RAL Powder Coat:	YES	YES		
Fitting Options				
Recessed Sleeve depth:	150/250mm	150mm		
Listings:	UL LISTED, CE,	UL LISTED, CE, UKCA		
Dimensions & Weights				
Diameter (mm):	60	125		
Depth (mm):	85	85		
Weight KG:	0.4KG	1KG		
5	-	-		



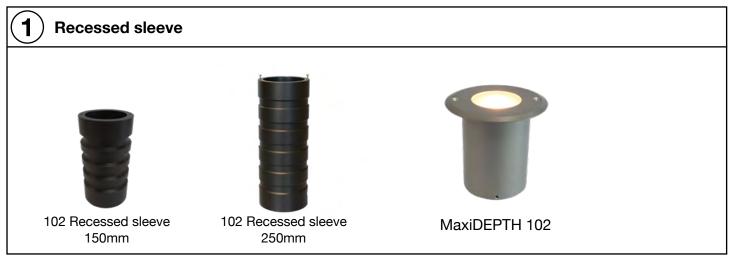


Fitting options



This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes. Failure to comply with the installation instructions can result in serious injury or death.

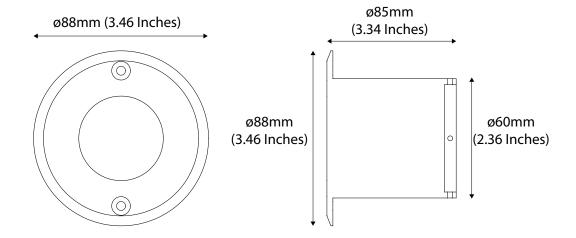






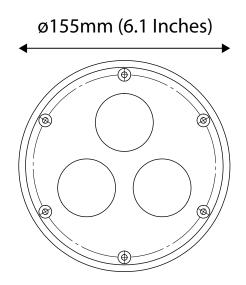


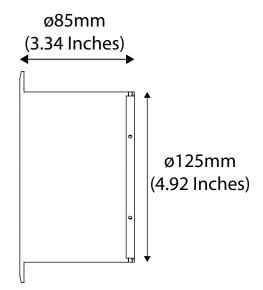
MM (INCHES)





MM (INCHES)



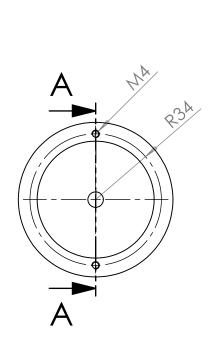


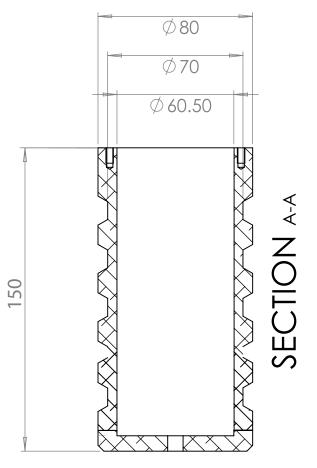


MaxiDEPTH 102 Series

150mm Sleeve Dimensions

Measurements in MM



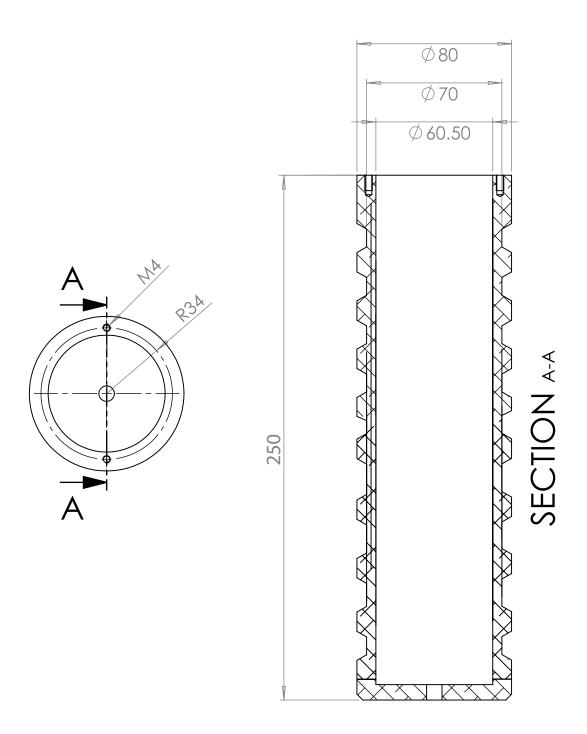




MaxiDEPTH 102 Series

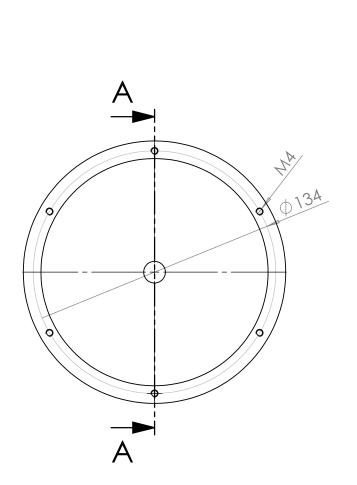
250mm Sleeve Dimensions

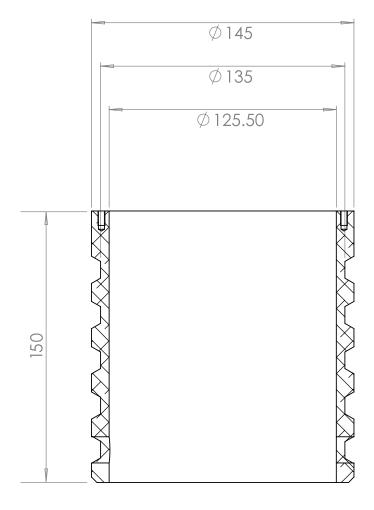
Measurements in MM





Measurements in MM







MaxiDEPTH Series 102 / 302

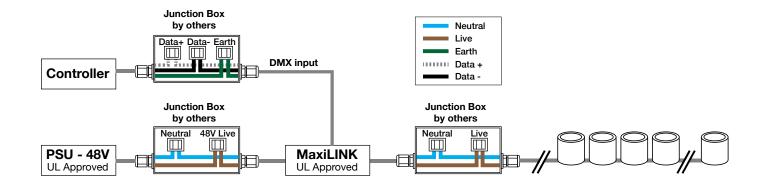
Wiring Illustration



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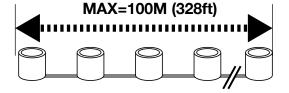




MaxiDEPTH 102 / 302



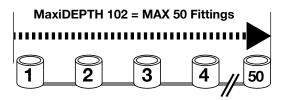
Maximum run distance





102 Maximum Run length

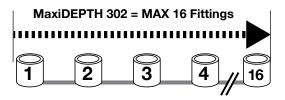






302 Maximum Run length







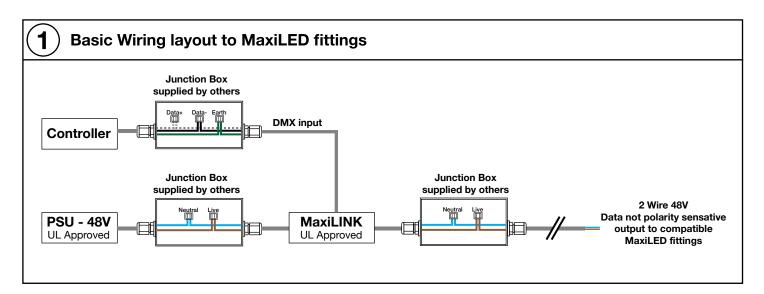
Wiring Illustration

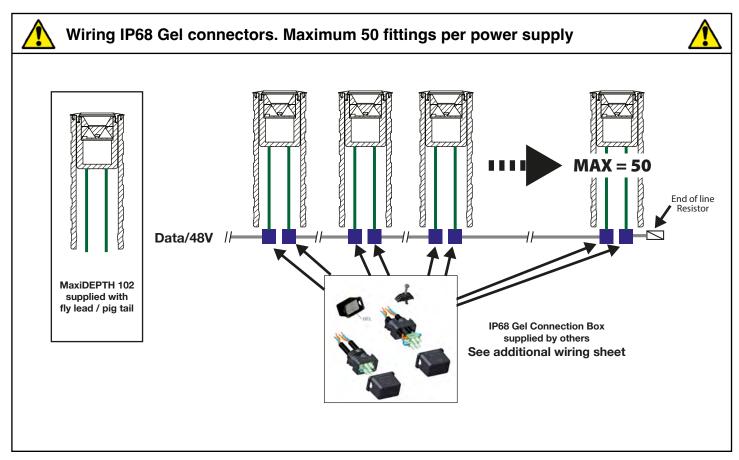


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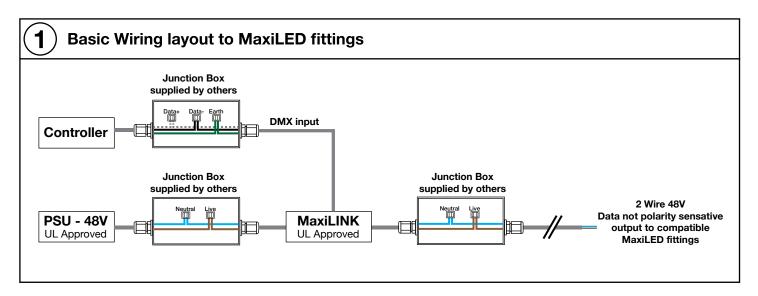
Wiring Illustration

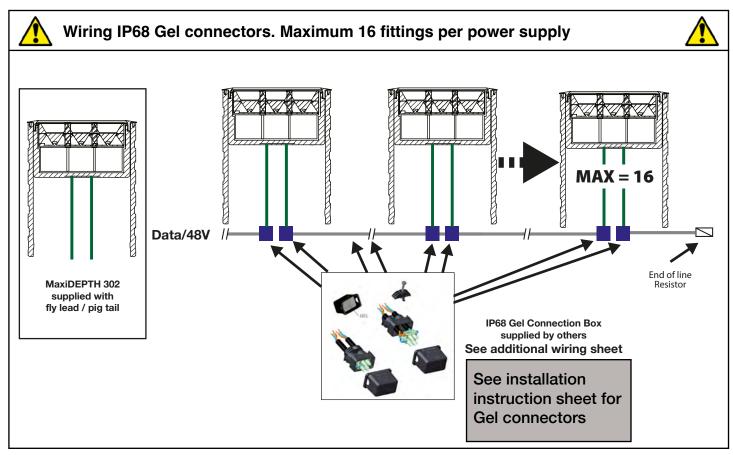


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MaxiDEPTH 102 Installation Guide



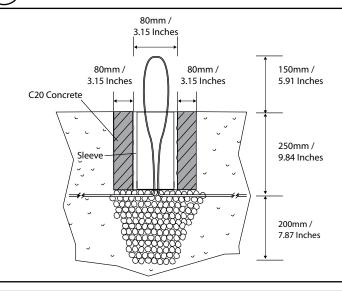
WARNING: ONLY 48V / DATA MAXILINK ONLY



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1 Preparing Ground Work for 250mm inground sleeve

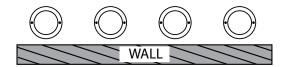


- (a). Prepare ground work.

 Trench minimum 450mm / 17.8 Inches deep.
- (b). Fill lower half with pea gravel for drainage.
- (c). Place In ground sleeve flush with ground.
- (d). Add C20 Concrete.

For proper drainage a 30-minute test with the proper quantity of water (Equivalent of the inground sleeve), should be performed upon initial installation of the sleeve. If not find a further drainage solution.

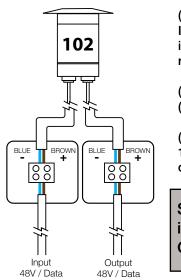
oldsymbol(2) Sleeve Orientation



NOTE:

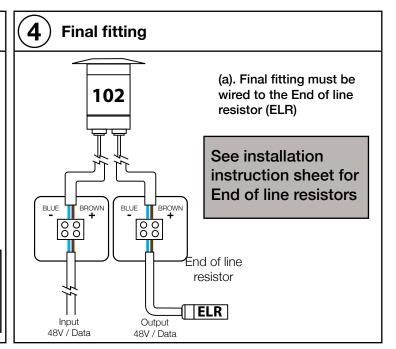
(a). Make sure sleeve holes are all aligned so that the fittings will be uniform after final installation. (Illustration for MaxiDEPTH and Marker Effect 102)

(3) Make connections using IP68 gel connectors



- (a). Using a minimum IP68 submersible joint inline with local authority regulations
- (b). Make connection. (As illustrated)
- (c). Cable type must be 1.5mm sq with a overall diameter of 6-8mm

See installation instruction sheet for Gel connectors





MaxiDEPTH 302 Installation Guide



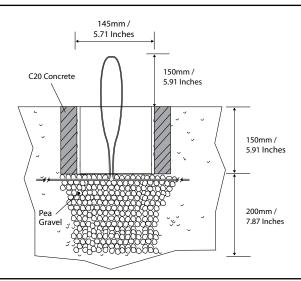
WARNING: ONLY 48V / DATA MAXILINK ONLY



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Preparing Ground Work



- (a). Prepare ground work.

 Trench minimum 350mm / 14 Inches deep.
- (b). Fill lower half with pea gravel for drainage.
- (c). Place In ground sleeve flush with ground.
- (d). Add C20 Concrete.

For proper drainage a 30-minute test with the proper quantity of water (Equivalent of the inground sleeve), should be performed upon initial installation of the sleeve. If not find a further drainage solution.

2 Sleeve Orientation





Make connections using





Gel connectors

NOTE:

(a). Make sure sleeve holes are all aligned so that the fittings will be uniform after final installation. (Illustration for MaxiDEPTH 302)

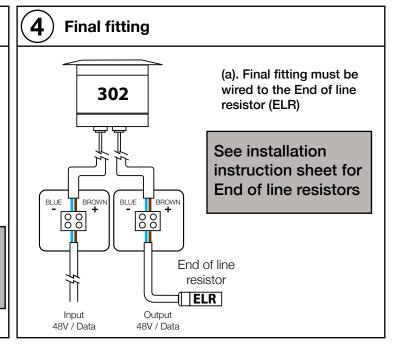
IP68 Gel connection box (a). Using a IP68 gel joint 302 recommended by (b). Make connection. (As illustrated) (c). Cable type must be 1.5mm sq with a overall diameter of 6-8mm BROWN BLUE BLUE BROWN 00 88 See installation instruction sheet for

Output

48V / Data

Input

48V / Data





MaxiDEPTH 102 / 302 Wiring using IP68 Gel connector

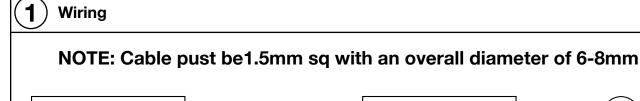


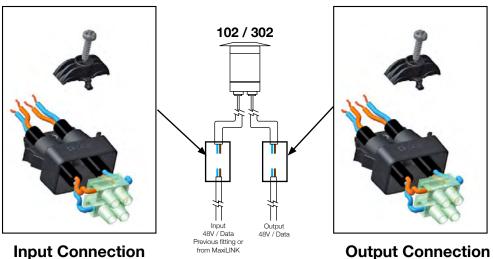
WARNING: ONLY 48V / DATA MAXILINK ONLY

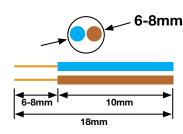


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- (a). Cable must be 1.5mm sq with an overall diameter of 6-8mm
- (b). Cut cable to sizes above
- (c). Connect wiring to terminal block

2 Apply Gel cover



- (a). Each packet is supplied with a Gel filled cover.
- (b). Check all wires are tight and in correct locations in the terminal block



- (c). Push the terminal block into the housing.
- (d). Confirm the outter sheath of cable is within the housing. Secure the Cable using the clamp with the screw provided.
- (e). Push the gel filled cover over the housing. Confirm the cover has clicked in place on both sides of the housing.
- (f). Repeat the process for the output connection.



MaxiLED End of Line Resistors Instructions



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Connect the End of Line Resistor



(a). Connect the End of Line Resistor Cable (Supplied Separately.) to the end of the 48V Data line after the last fitting.

NOTE: On the final lamp fitting an End of Line Connector MUST be Connected to allow the DMX data to 'Communicate.'
Without the End of Line Resistor the lamps will show DATA DISRUPTION
Connection is NOT Polarity Sensitive.

(2)

Data Disruption



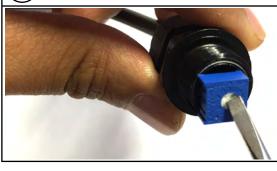
(a). Once the system is powered up and the DMX 512 data transmission is available the end of line units will need setting.

Only perform this operation if the installation is flickering and not responding to the 512 DMX data transmission correctly.

Remove the Black Cap.



Fine Tuning 512 DMX data



- (a). Using a Flat screw driver, turn the adjuster fully clockwise. The lights will begin to randomly flicker.
- (b). Turn the adjuster anticlockwise until the installation responds correctly, once it responds correctly continue to turn the adjuster until the installation starts to flicker again when it does stop, turn the adjuster clockwise slightly.
- (c). The adjuster is now set.



Check list



(a). Once the lights are tuned and correct, replace the End of Line Resistor Black cap. Ensure a tight fit for a waterproof seal.

(SEE INSTALLATION INSTRUCTIONS FOR POWER SUPPLY OPTIONS.)



MaxiDEPTH Series 102 / 302

Beam angle options

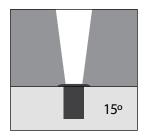


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15° Narrow Beam

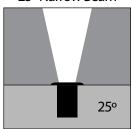




15° Narrow Spot

To highlight a small statue, signs or garden features.

25° Narrow Beam

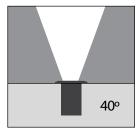


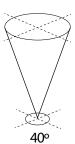


25° Narrow Beam

Broad range of applications, Trees and wall details and highlights.

40° Wide Beam

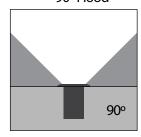




40° Flood Beam

This true "floodlight" has wide variety of applications

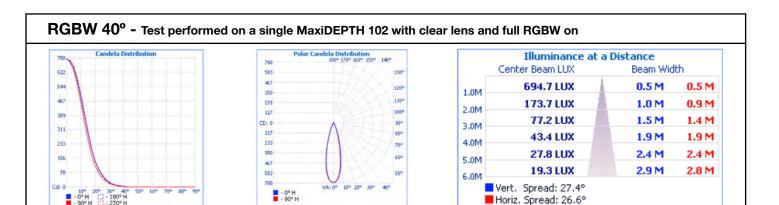
90° Flood

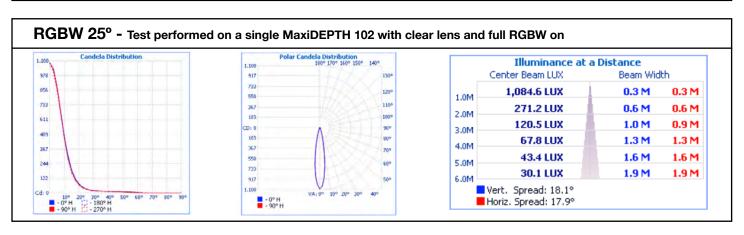


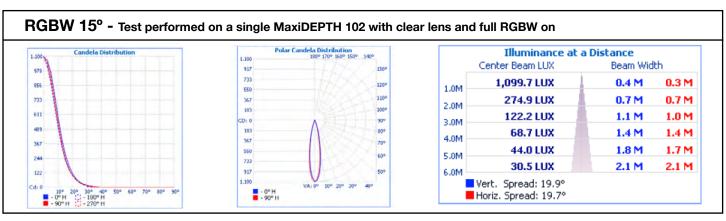
90° Wide Flood Beam

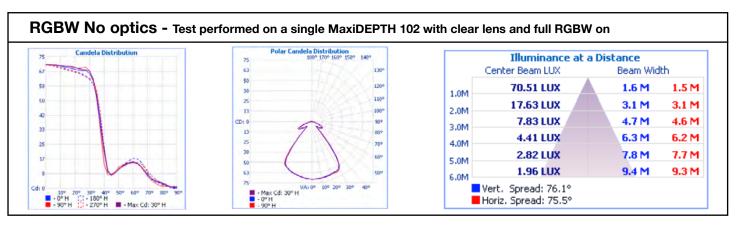
This wide "floodlight" has wide variety of applications

Photometrics - RGBW



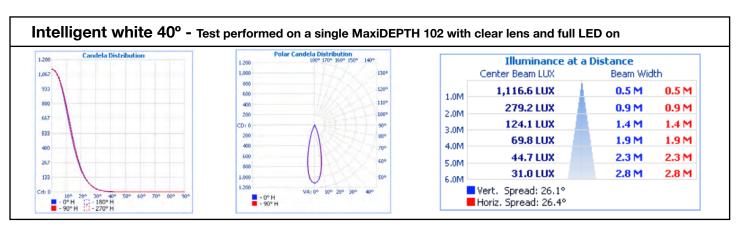


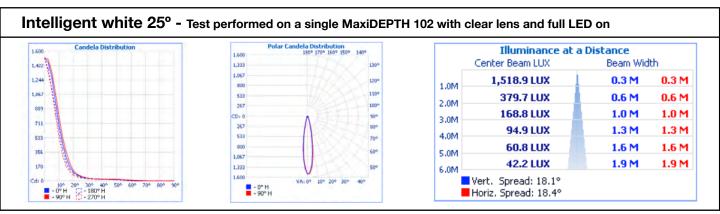


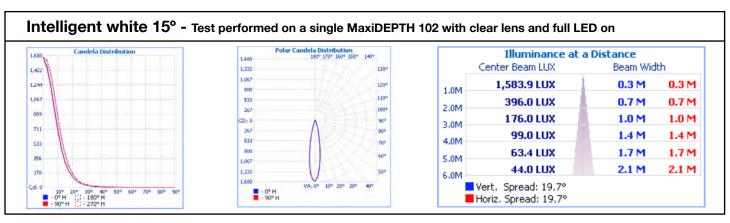


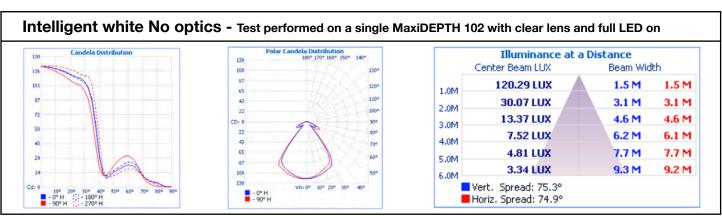


Photometrics - Intelligent white (2700k, 6000K)









MaxiDEPTH Series 102 Order codes

Product	LED	Optic	Housing		Finish	IKRating	Other
MaxiDEPTH 102 MD102	RGBWW(2700K)	15° 15	Adjustable wall bracket A	WB	MaxiSEAL Black MSB	Pedestrian Traffic PT	End of line resistor ELR
	RGBCW(6500K)	25° 25	Flush mounting plate FI	MP	MaxiSEAL Silver MSS	Drive over IK10 IK10	
	IW	40° 40	150mm Recessed sleeve R	RS150			
	2700	170° 170	250mm Recessed sleeve R	S250			
	3500						
	6500						
EXAMPLE: MD102	3500	40	R	RS250	MSS	IK10	ELR

MaxiDEPTH Series 302 Order codes

Product	LED	Opti	С	Housing		Finish		IKRating	Other
MaxiDEPTH 302 MD302	RGBWW(2700K)	15°	15	Adjustable wall bracket	AWB	MaxiSEAL Black M	SB	Pedestrian Traffic PT	End of line resistor ELR
	RGBCW(6500K)	25°	25	Flush mounting plate	FMP	MaxiSEAL Silver M	SS		
	IW	40°	40	150mm Recessed sleeve	RS150				
	2700	170°	170						
	3500								
	6500								
EXAMPLE: MD302	3500		40		RS150	M	SS	PT	ELR