

Plexineon White 1X Series

PRODUCT SUMMARY



PRODUCT FEATURES

- Four Kelvin temperatures
- Energy efficient
- Long lifetime
- Stable and consistent color temperature
- Low voltage
- Easy to install
- Cool to the touch
- For use as exterior or interior accent lighting, direct view or indirect view applications, coves & more

Color Temperatures (+/- 10%)

- 6500K

Diffuser Color (when not illuminated)

- Light amber hue

Lengths Available

- Factory convex or concave bends to minimum inside radius of 5" (127mm)¹

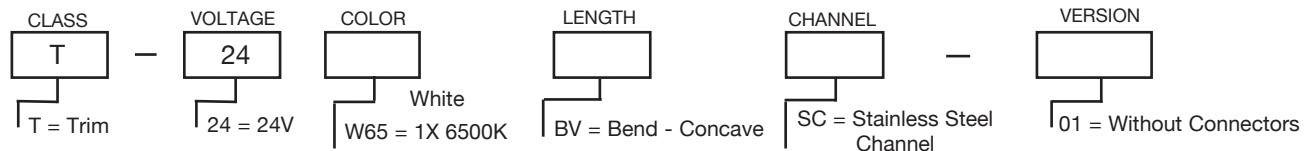
Power Supply

- Class 2, 24 VDC, 100 Watts - must be supplied by iLight
- Maximum illumination length of a single 100W power supply 32 feet (9.75m)
- Advanced Power Supply has an input of 120-277VAC

Power Supply Tips

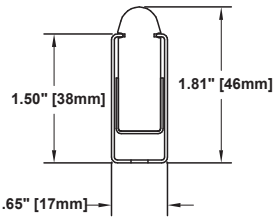
- 20% maximum overage for breaker for primary current draw
- Do not plug multiple power supplies into one run of Plexineon
- All iLight power supplies should be on an independent circuit
- Recommend surge protection upstream from power supply
- Verify correct voltage prior to wiring to non-switching power supplies

ORDERING INFORMATION



Specification sheets are subject to change without notice. For the most recent version, please refer to www.ilight-tech.com.

Plexineon White 1X Series

TECHNICAL INFORMATION	
MECHANICAL	<p>Width & Height Housing</p> <ul style="list-style-type: none"> • 0.55”(14mm)w x 1.47”(37mm)h with C-channel • UV and impact resistant acrylic diffuser • UV resistant plastic channel • Stainless steel C-channel for mechanical support <p>Minimum Piece Spacing</p> <ul style="list-style-type: none"> • Linear (end to end) = $\frac{3}{8}$” (10mm) • Parallel (edge to edge) = 1” (25mm) <p><small>*The minimum space for ventilation surrounding the Plexineon product is 1.0”. This distance should be maintained on the three sides, left and right of the product as well as in front of product. Other configurations subject to specific application testing.</small></p> <p>Mounting</p> <ul style="list-style-type: none"> • Stainless steel spring mounted clips • Clips to be 2” (51mm) in from end of piece and no more than 2’ (610mm) maximum between clips <p>Power Supply Weight</p> <ul style="list-style-type: none"> • Electronic (Advance) Power Supply is 2 lbs. (0.9 kg) • Outdoor Magnetic Hybrid (Justin) Power Supply is 9 lbs. (4 kg) <p>Power Supply Dimensions</p> <ul style="list-style-type: none"> • Electronic (Advance) = 9.50” x 1.18” x 1.70” (242mm X 30mm X 43mm) • Outdoor Magnetic Hybrid (Justin) = 11.25” x 3.25” x 3.36” (286mm x 83mm X 85mm)
ELECTRICAL	<p>Load Voltage 24 V DC</p> <p>Load Current 82 mA/foot at 24VDC (270 mA/meter) 1.97 watts/foot (6.46 watts/meter)</p> <p>Maximum Run Length 32 feet (9.75m) with an iLight approved power supply</p> <p>DC Cable</p> <ul style="list-style-type: none"> • 14 AWG, PVC/Nylon Type TC 600 Volt power and control cable or equivalent • FT-4 fire rating • Class 2 wiring system • Connectors: Molex Splashproof - JIS D0203 S2 <p>Electrical Tips</p> <ul style="list-style-type: none"> • Only use iLight approved power supplies • Do not cut non-cuttable pieces
ENVIRONMENTAL	<p>Operating Temperature Range -25°C to 50°C (-13°F to 122°F)</p> <p>Storage Temperature Range -25°C to 75°C (-13°F to 167°F)</p> <p>Certification</p> <ul style="list-style-type: none"> • Complies with CE, UL1598 and CSA c22.2 No. 250 in Luminaire, Wet Location.IP67. Plexineon is MetLabs listed. MetLabs is a Nationally Recognized Testing Laboratory (NRTL). • Power Supplies are RU listed. RU stands for Recognized Components by Underwriters Laboratory.
PLEXINEON CROSS SECTIONS	 <p style="text-align: center;">GEN-3.9 With C-Channel in Clip</p>

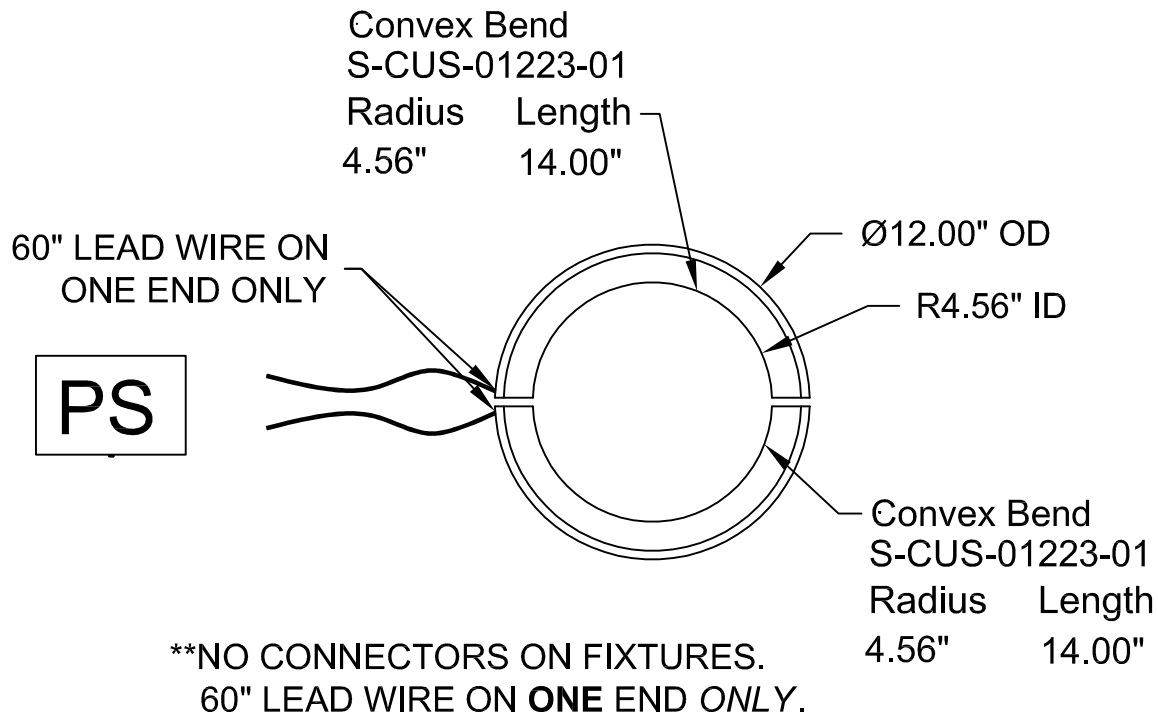
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TECHNICAL INFORMATION				
MOUNTING CLIPS	<p style="text-align: center;">1.50" Standard Clip (75-CLP16-001-00)</p>			
PLEXINEON FACTORY BENDING	<p style="text-align: center;">Hard Bends</p> <p style="text-align: center;">Concave Bend</p> <p style="text-align: center;">R Min = R5.00" [R127mm]</p> <p style="text-align: center;">Convex Bend</p> <p style="text-align: center;">R Min = R5.00" [R127mm]</p>			
ELECTRONIC (ADVANCED) POWER SUPPLY	<p style="text-align: center;">Plexineon Power Supplies</p> <div style="float: right; width: 40%;"> <p>65-ADV100W24V Input: 120-277VAC 50/60Hz Output: 24VDC 4A max RU Listed for U.S. and Canada Additional Enclosure Required Supplied by others 2lbs. (0.9kg)</p> </div> <div style="text-align: right; margin-top: 20px;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">DRY</td> <td rowspan="2" style="text-align: center; vertical-align: middle;"> </td> </tr> <tr> <td style="padding: 2px 5px;">DAMP</td> </tr> </table> </div>	DRY	 	DAMP
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B.O.M.

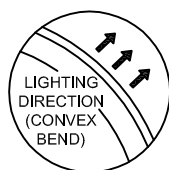
Quantity	Name	DESCRIPTION	LENGTH	CUSTOM-PART#	RADIUS
2		Convex Bend	14.00"		4.56"
2		3.0" Silver Mounting Clip			
6		1.5" Silver Arch. Clip			
1		ADVANCE POWER SUPPLY			
1		14 AWG WIRE	50'		

** ONE MOLD ESTIMATED FOR CUSTOM FACTORY BENDS.



NOTES:

- PLEXINEON:**
1. MAXIMUM DISTANCE OF 14 GAUGE WIRE IS 40 LF PER PLEXINEON RUN.
 2. USE 14 GAUGE WIRE JUMPER, IF NEEDED.
 3. CAN CONNECT UP TO 14 POWER SUPPLIES TO ONE 20 AMP CIRCUIT PER N.E.C.
 4. "1 I" STANDS FOR END OF RUN.
 5. MINIMUM 3/8" SPACE BETWEEN PLEXINEON PIECES.
 6. 94" MAXIMUM LENGTH FOR FACTORY EASY BEND FIXTURES. 92" MAXIMUM LENGTH FOR FACTORY HARD BEND FIXTURES.
 7. THE "(XX)" PART NUMBER LOCATION REPRESENTS THE LAST TWO DIGIT OF THE CUSTOM PART NUMBER LOCATED IN THE B.O.M.



* CLIENT RESPONSIBLE FOR MOUNTING
 * C.L. = CUSTOM LENGTH * P.S. = POWER SUPPLY

G.A.L.	B	UPDATED TO GEN-3.9 PLEXINEON	7/28/2014
K.Z.	A	PRELIMINARY	12/13/2010
BY	REV	DESCRIPTION	ECO/DATE

ADDITIONAL SIGNATURES				THE INFORMATION CONTAINED ON THIS DRAWING IS CONFIDENTIAL PROPERTY OF ILIGHT TECHNOLOGIES AND MAY NOT BE DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION			
DATE	PROJECT ENGINEER	DO NOT SCALE DRAWING WORK TO DIMENSIONS SHOWN		TOLERANCES DECI .X ±.030 ANGLE ± 0.5 .XX ±.010 .XXX ±.005 FRACT ± 1/64		118 S. Clinton St. Suite 370 Chicago, IL 60661 www.ilight-tech.com Tel: 312-876-8630 Fax: 312-876-8631	
DATE	DRAWN BY DATE						
DATE	CHECKED BY DATE	MATERIAL/FINISH	TITLE	SCALE	SHEET OF	ROHS COMPLIANT	
DATE	APPROVED BY DATE	1X WHITE 6500K	12" WHITE CIRCLE KIT	1 : 8	1 1	NO	
		GEN-3.9 SILVER SIDED PLEXINEON		P/N	S-OEM-00016-00		REV B
		NO / C-CHANNEL					