Plexineon White 2X Series

PRODUCT SUMMARY

Color Temperatures (+/- 10%)
- 2800K
- 3500K
- 4500K
- 6500K

Diffuser Color (when not illuminated)
- Light amber hue

Lengths Available
- Standard Lengths: 2’, 4’, 6’, 8’
- (610mm, 1219mm, 1830mm, 2438mm)
- Factory custom lengths available to the nearest 1/2” (13mm) +/- 0.25” (6mm)¹
- 2’ (610mm) field cuttable pieces
- Illuminated outside corner pieces
- Factory convex or concave bends to minimum inside radius of 12” (305mm)
- Factory “easy bends” to a 3/16” (5mm) radius¹
- Gentle field bends to a 72” (1829mm) radius²

1. Drawing required for production
2. Field bending allowed only on fixture without C-channel

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

Power Supply
- Class 2, 24 VDC, 100 Watts - must be supplied by iLight
- Primary voltage: 120 or 120-277 depending on model
- Secondary voltage: 24VDC 4.1 A Max
- Maximum illumination length of a single 100W power supply 20 feet (6.10m)

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

Low Voltage Cable
Maximum distance of low voltage cable in any given run:
- 14 AWG: 40 feet (12.19m)
- 12 AWG: 60 feet (18.29m)
- 10 AWG: 100 feet (30.48m)

ORDERING INFORMATION

CLASS | VOLTAGE | COLOR | HOUSING | LENGTH | CHANNEL | VERSION
--- | --- | --- | --- | --- | --- | ---
T | 24 | White | S | 2F = 2 Feet | NC = No Channel | 00 = With Connectors
- 24 = 24v | X28 = 2X 2800K | SC = Stainless | CT = Cuttable | 01 = Without Connectors
| X35 = 2X 3500K | BE = Bend-Easy | X45 = 2X 4500K | BN = Bend-Convex | BX = Bend-Concave
| X65 = 2X 6500K

Specification sheets are subject to change without notice. For the most recent version, please refer to www.ilight-tech.com
## Plexineon White 2X Series

### TECHNICAL INFORMATION

#### MECHANICAL

**Width & Height Housing**
- 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

**Minimum Piece Spacing**
- Linear (end to end) = 3/8” (10mm)
- Parallel (edge to edge) = 1” (25mm)

* 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 the product. Other configurations subject to specific application testing.

#### ELECTRICAL

**Load Voltage**
- 24 V DC

**Load Current**
- 117.1 mA/foot at 24VDC (384 mA/meter)
- 2.81 watts/foot (9.22 watts/meter)

**Maximum Run Length**
- 20 feet (6.10m) with an iLight approved power supply

**DC Cable**
- 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

**Electrical Tips**
- Only use iLight approved power supplies
- Do not cut non-cuttable pieces

#### ENVIRONMENTAL

**Operating Temperature Range**
- -25°C to 40°C (-13°F to 104°F)

**Storage Temperature Range**
- -25°C to 75°C (-13°F to 167°F)

**Power Supply Weight**
- Electronic (Advance) Power Supply is 2 lbs. (0.9 kg)
- Outdoor Magnetic Hybrid (Justin) Power Supply is 9 lbs. (4 kg)

**Power Supply Dimensions**
- 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)

**Certification**
- Complies with CE, UL 1598 and CSA c22.2 No. 250 in Luminaire, Wet Location, IP68 (when ordered with IP68 connectors, IP67 otherwise), IK10. 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 White 2X Series

**TECHNICAL INFORMATION**

**WITH C-CHANNEL**

- 96.0” [2438mm]
- 4.0” [102mm]
- 0.38” [10mm]

**PLEXINEON PROFILE**

- 1.5” Clip
- C-Channel
- 3.0” Joiner Clip

**PLEXINEON CROSS SECTIONS**

- Gen-3.9 WITHOUT C-CHANNEL
  - 0.402” [10mm]
  - 1.44” [37mm]
- Gen-3.9 WITH C-CHANNEL
  - 1.47” [37mm]
- Gen-3.9 WITHOUT C-CHANNEL IN CLIP
  - 1.50” [38mm]
- Gen-3.9 WITH C-CHANNEL IN CLIP
  - 1.81” [46mm]

**MOUNTING CLIPS**

- 1.50” Standard Clip
  (75-CLP16-001-00)
- L Tab Specialty Clip
  (75-CLP15-001-00)
- Straight Tab Specialty Clip
  (75-CLP17-001-00)
- 1.50” Vertical End Clip
  (75-CLP20-001-00)
- 3” Joiner Clip
  (75-CLP19-001-00)

*Mounting hole 3/16”
1 – used for both horizontal & vertical applications
### Plexineon Field Bending

**Note 1:** Field bending shown in easy direction. Cannot field bend into convex or concave bends

**Note 2:** Easy direction refers to bend axis parallel to light direction.

**Note 3:** Field bending allowed only on fixtures without C-channel

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### Plexineon Factory Bending

**Hard Bends**

- Concave Bend: \( R_{\text{Min}} = R12.00" \) [R305mm]

<table>
<thead>
<tr>
<th>Angle</th>
<th>Fixture Length</th>
<th>Min. Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>76°</td>
<td>8'-0&quot; (2438mm)</td>
<td>72.00&quot; (1829mm)</td>
</tr>
<tr>
<td>57°</td>
<td>6'-0&quot; (1829mm)</td>
<td>72.00&quot; (1829mm)</td>
</tr>
<tr>
<td>38°</td>
<td>4'-0&quot; (1219mm)</td>
<td>72.00&quot; (1829mm)</td>
</tr>
</tbody>
</table>

**Convex Bend: \( R_{\text{Min}} = R12.00" \) [R305mm]

**Easy Bends**

- \( R_{\text{Min}} = R0.19" \) [R5mm]

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**Note:** The maximum length for any factory bent fixtures is 92 inches
### TECHNICAL INFORMATION

#### OUTSIDE CORNER

- 9.79" [249mm]

#### INSIDE CORNER

- Standard Plexineon
- 3/8" Space Between Plexineon
- 0.30" [7.6mm]

#### CORNER CUTTABLE

- 25.95" (659mm)
- 4.13" (105mm)
- 1.89" (48mm)
- DO NOT CUT

*Lead Wire*  
*Cut From This End*
# Plexineon White 2X Series

## Technical Information

### Plexineon Power Supplies

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Dimensions</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>65-ADV100W24V</td>
<td>ELECTRONIC (ADVANCE)</td>
<td></td>
<td>Input: 120-277VAC 50/60Hz, Output: 24VDC 4A max, RU listed for U.S. and Canada</td>
</tr>
<tr>
<td>65-PWR09-001-00</td>
<td>MAGNETIC HYBRID (JUSTIN)</td>
<td></td>
<td>Input: 120VAC 50/60Hz, Output: 24VDC 4A max, RU listed for U.S. Enclosed in NEMA 3R</td>
</tr>
<tr>
<td>65-24-96W-MAG</td>
<td>MAGTECH</td>
<td></td>
<td>Input: 100-277VAC 60Hz, Output: 24VDC 4A max, RU listed for U.S.</td>
</tr>
</tbody>
</table>

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**DRY**

**DAMP**

**WET**