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

**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)
- 2’ (610mm) field cuttable pieces
- Illuminated outside corner pieces
- Factory convex or concave bends to minimum inside radius of 5” (127mm)
- Factory “easy bends” to a 3/16” (5mm) radius
- Gentle field bends to a 48” (1219mm) radius

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

**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 32 feet (9.75m)

**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**

<table>
<thead>
<tr>
<th>CLASS</th>
<th>VOLTAGE</th>
<th>COLOR</th>
<th>HOUSING</th>
<th>LENGTH</th>
<th>CHANNEL</th>
<th>VERSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>24</td>
<td>White</td>
<td>S</td>
<td>2F</td>
<td>NC</td>
<td>00</td>
</tr>
</tbody>
</table>

W28 = 1X 2800K
W35 = 1X 3500K
W45 = 1X 4500K
W65 = 1X 6500K

TC = Trim Channel
PC = Plain Channel
NC = No Channel
SC = Stainless Steel Channel

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

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## 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**
- 82 mA/foot at 24VDC (270 mA/meter)
- 1.97 watts/foot (6.46 watts/meter)

**Maximum Run Length**
32 feet (9.75m) with an iLight approved power supply

**Light Output**
- 2800K — 64 lumens/ft
- 3500K — 52 lumens/ft
- 4500K — 59 lumens/ft
- 6500K — 51 lumens/ft

**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 50°C (-13°F to 122°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)
- Magtech Power Supply is 2 lbs. (0.9 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)
- Magtech = 12.34” x 1.46” x 2.41” (313mm x 37mm x 61mm)

**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 1X Series

TECHNICAL INFORMATION

WITH C-CHANNEL

96.0” [2438mm] 4.0” [102mm]

0.38” [10mm]

1.5” Clip

Connector

C-Channel

3.0” Joiner Clip

PLEXINEON PROFILE

PLEXINEON CROSS SECTIONS

Gen-3.9 WITHOUT C-CHANNEL

Gen-3.9 WITH C-CHANNEL

Gen-3.9 WITHOUT C-CHANNEL IN CLIP

Gen-3.9 WITH C-CHANNEL IN CLIP

0.402” [10mm]

0.45” [11.43mm]

1.44” [37mm]

1.47” [37mm]

1.50” [38mm]

1.81” [46mm]

0.55” [14mm]

0.65” [17mm]

0.65” [17mm]

1.81” [46mm]

1– used for both horizontal & vertical applications

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”
**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.

**PLEXINEON FACTORY BENDING**

**Hard Bends**

- Concave Bend: $R_{\text{min}} = 5.00" [127mm]$

**Convex Bend**: $R_{\text{min}} = 5.00" [127mm]$

**Easy Bends**

- $R_{\text{min}} = 0.19" [5mm]$

Note: The maximum length for any factory bent fixtures is 92 inches.
## Plexineon White 1X Series

### TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>OUTSIDE CORNER</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
</tr>
<tr>
<td>8.85&quot; [225mm]</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>INSIDE CORNER</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>3/6&quot; Space Between Plexineon</td>
</tr>
<tr>
<td>0.30&quot; [7.5mm]</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CORNER CUTTABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Diagram" /></td>
</tr>
<tr>
<td>25.95&quot; (659mm)</td>
</tr>
<tr>
<td>4.13&quot; (105mm) DO NOT CUT</td>
</tr>
<tr>
<td>1.89&quot; (48mm) DO NOT CUT</td>
</tr>
<tr>
<td>Lead Wire</td>
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<tr>
<td>Cut From This End</td>
</tr>
</tbody>
</table>
# Plexineon White 1X Series

## TECHNICAL INFORMATION

<table>
<thead>
<tr>
<th>Plexineon Power Supplies</th>
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<tbody>
<tr>
<td><strong>65-ADV100W24V</strong> Input: 120-277VAC 50/60Hz Output: 24VDC 4A max RU listed for U.S. and Canada Additional Enclosure Required 2lbs. (0.9kg)</td>
</tr>
</tbody>
</table>

![Diagram of Electronic Advance Power Supply]

| **65-PWR09-001-00** Input: 120VAC 50/60Hz Output: 24VDC 4A max RU listed for U.S. Enclosed in NEMA 3R 9lbs. (4kg) |

![Diagram of Magnetic Hybrid Power Supply]

| **65-24-96W-MAG** Input: 100-277VAC 60Hz Output: 24VDC 4A max RU listed for U.S. 2lbs. (0.9kg) |

![Diagram of Magtech Power Supply]