Plexineon Color Series
(Amber, Orange, Red, Daytime Red)

PRODUCT SUMMARY

LIGHT COLOERS
- Amber
- Orange
- Red
- Daytime Red

DIFFUSER COLOR (when not illuminated)
- Frosted
- Red*

LENGTHS AVAILABLE
- Standard Lengths: 2’, 4’, 6’, 8’
  (610 mm, 1219 mm, 1830 mm, 2438 mm)
- 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 5” (127mm)
- Factory “easy bends” to a 3/16” (5mm) radius¹
- Gentle field bends to a 48” (1219mm) radius²

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

PRODUCT FEATURES
- Bright, even-toned color
- Durable construction
- Long life
- Energy efficient
- 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 48 feet (14.6m): Amber, Orange & Daytime Red

POWER SUPPLY TIPS
- 20% 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>S</td>
<td>Silver</td>
<td></td>
<td>NC</td>
<td>00</td>
</tr>
</tbody>
</table>

T = Trim
24 = 24v
AMB = Amber
ORG = Orange
RED = Red
DRD = Daytime Red

2F = 2 Feet
4F = 4 Feet
6F = 6 Feet
8F = 8 Feet
CL = Custom Length
PC = Outside Corner
RT = Corner Cuttable
TT = Cuttable
BE = Bend-Easy
BN = Bend-Convex
BV = Bend-Concave
00 = With Connectors
01 = Without Connectors

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**
  - 860 mA/foot at 24VDC (197 mA/meter)
  - 1.44 watts/foot (4.72 watts/meter)

- **Maximum Run Length**
  - 48 feet (14.6 m) 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

#### 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)

- **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.

#### Mounting
- Stainless steel spring mounted clips
- Clips to be 2” (51mm) in from end of piece and no more than 2’ (610mm) maximum between clips

#### 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)

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

#### Cuttable Fixture

![Diagram of 2' Cuttable Fixture](image)

- 3.00” [76mm] DO NOT CUT
- LEAD WIRE
- 24.25” [616mm]
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TECHNICAL INFORMATION

WITH C-CHANNEL

96.0" [2438mm]

0.38" [10mm]

4.0" [102mm]

4.02" [10mm]

1.44" [37mm]

1.47" [37mm]

1.50" [38mm]

1.81" [46mm]

0.45" [11.43mm]

0.55" [14mm]

0.65" [17mm]

0.65" [17mm]

1.50" Standard Clip
(75-CLP16-001-00)

1.50" Vertical End Clip
(75-CLP20-001-00)

1.50" [38mm]

0.65" [17mm]

0.65" [17mm]

1.50" [38mm]

L Tab Specialty Clip
(75-CLP15-001-00)

3" Joiner Clip*
(75-CLP19-001-00)

3.0" [76mm]

0.64" [16mm]

0.64" [16mm]

3.08" [76mm]

1.50" [38mm]

1.50" [38mm]

*Mounting hole 3/16"

1– used for both horizontal & vertical applications

Mounting hole 3/16"
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**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>Angle</th>
<th>Fixture Length</th>
<th>Min. Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>115°</td>
<td>8'-0&quot; (2438mm)</td>
<td>48.00&quot; (1219mm)</td>
</tr>
<tr>
<td>86°</td>
<td>6'-0&quot; (1829mm)</td>
<td>48.00&quot; (1219mm)</td>
</tr>
<tr>
<td>57°</td>
<td>4'-0&quot; (1219mm)</td>
<td>48.00&quot; (1219mm)</td>
</tr>
</tbody>
</table>

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**

Concave Bend

R Min = R5.00" [R127mm]

Convex Bend

R Min = R5.00" [R127mm]

Easy Bends

R Min = R0.19" [R5mm]
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TECHNICAL INFORMATION

OUTSIDE CORNER

8.85" [225mm]

INSIDE CORNER

Standard Plexineon

3/8" Space Between Plexineon

CORNER CUTTABLE

25.95" (659mm)

4.13" (105mm)
DO NOT CUT

1.89" (48mm)
DO NOT CUT

Lead Wire

Cut From This End
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TECHNICAL INFORMATION

**Plexineon Power Supplies**

<table>
<thead>
<tr>
<th>ELECTRONIC (ADVANCE) POWER SUPPLY</th>
<th>MAGNETIC HYBRID (JUSTIN) POWER SUPPLY IN 3R ENCLOSURE</th>
<th>MAGTECH POWER SUPPLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>65-ADV100W24V Input: 120-277VAC 50/60Hz Output: 24VDC 4A max RU listed for U.S. and Canada Additional Enclosure Required 2lbs. (0.9kg)</td>
<td>65-PWR09-001-00 Input: 120VAC 50/60Hz Output: 24VDC 4A max RU listed for U.S. Enclosed in NEMA 3R 9lbs. (4kg)</td>
<td>65-24-96W-MAG Input: 100-277VAC 60Hz Output: 24VDC 4A max RU listed for U.S. 2lbs. (0.9kg)</td>
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</tbody>
</table>