

## Features

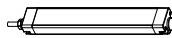


Banner's LED Strip Lights have sturdy aluminum housings, shatterproof windows, and impressive environmental ratings, making them an ideal general-purpose LED light for machine, enclosure, or other industrial lighting applications.

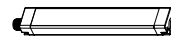
- Low-profile, space-saving design
- Rugged, water-resistant IP69K option
- Available in eight lengths from 145 mm to 1130 mm
- Lensed models or choice of clear or diffuse window
- Daisy chain power to multiple lights
- Optional snap clips for easy installation and repositioning
- Capability to dim lights using the wiring pinout (Hi/Lo/Off)
- Models with Hi/Lo/Off switch available
- Automatic temperature protection built into the unit. Above 50 °C, the light dims to manage heat and protect product lifetime
- Motion sensing models available

**NOTE:** When cascading lights, a model with an Hi/Lo/Off switch can be used to control the lights cascaded off the switched model.

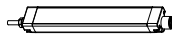
*Stand-Alone Light—cable*



*Stand-Alone Light or End Light in a Cascade—QD*



*First Light in a Cascade—cable*



*First or Middle of a Cascade—QD*



WLS28-2 Work Light Strips are available as either stand-alone models, or as cascade models that can be "daisy-chained" together for a continuous length of lighting, with a minimum of wiring.

Stand-alone models have cable or male QD fitting at one end for power connection, no connections at opposite end. A stand-alone model may be used as the last in the cascade series.

Cascade models have cable or male QD fitting at one end for power connection, female QD fitting at opposite end for connection to other lights in the cascade. Cascade models with cable end can only be used as the first light in the cascade series. A double-ended accessory cordset must be used between each pair of lights in a cascade.

**IMPORTANT:** Read the following instructions before operating the light. Please download the complete WLS28-2 Strip Light technical documentation, available in multiple languages, from [www.bannerengineering.com](http://www.bannerengineering.com) for details on the proper use, applications, Warnings, and installation instructions of this device.

**IMPORTANT:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde [www.bannerengineering.com](http://www.bannerengineering.com) toda la documentación técnica de los WLS28-2 Strip Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

**IMPORTANT:** Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des WLS28-2 Strip Light sur notre site [www.bannerengineering.com](http://www.bannerengineering.com) pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

## Models

### Model Key

| Family         | Cascadable                           | LED Color                                                                           | Lighted Length (mm)                                   | Window                                                                   | Construction                                    | Control                                                       | Connector                                                                                                                 |
|----------------|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>WLS28-2</b> | <b>C</b>                             | <b>W</b>                                                                            | <b>145</b>                                            | <b>D</b>                                                                 | <b>X</b>                                        |                                                               | <b>Q</b>                                                                                                                  |
|                | C = Cascadable<br>X = Non-cascadable | W = Cool white<br>WW = Warm white<br>R = Red<br>G = Green<br>B = Blue<br>Y = Yellow | 145<br>285<br>430<br>570<br>710<br>850<br>990<br>1130 | Blank = Clear plastic<br>D = Diffused plastic<br>L25 = 25° lensed window | Blank = Not sealed<br>S = Sealed <sup>(1)</sup> | Blank = None<br>M = Motion switch<br>PB = High/Low/Off switch | Blank = 2 m (6.5 ft) integral PVC-jacketed cable<br>Q = Integral 4-pin M12 male quick-disconnect connector <sup>(2)</sup> |

### IP50 Models

| Non-Switch Models |                | HIGH/OFF/LOW Switch Models |                  | Motion Switch Models |                 | Lighted Length | Power Connector    |
|-------------------|----------------|----------------------------|------------------|----------------------|-----------------|----------------|--------------------|
| Stand-Alone       | Cascade        | Stand-Alone                | Cascade          | Stand-Alone          | Cascade         |                |                    |
| WLS28-2XW145X     | WLS28-2CW145X  | WLS28-2XW145XPB            | WLS28-2CW145XPB  | WLS28-2XW145XM       | WLS28-2CW145XM  | 145 mm         | 2 m (6.5 ft) cable |
| WLS28-2XW285X     | WLS28-2CW285X  | WLS28-2XW285XPB            | WLS28-2CW285XPB  | WLS28-2XW285XM       | WLS28-2CW285XM  | 285 mm         |                    |
| WLS28-2XW430X     | WLS28-2CW430X  | WLS28-2XW430XPB            | WLS28-2CW430XPB  | WLS28-2XW430XM       | WLS28-2CW430XM  | 430 mm         |                    |
| WLS28-2XW570X     | WLS28-2CW570X  | WLS28-2XW570XPB            | WLS28-2CW570XPB  | WLS28-2XW570XM       | WLS28-2CW570XM  | 570 mm         |                    |
| WLS28-2XW710X     | WLS28-2CW710X  | WLS28-2XW710XPB            | WLS28-2CW710XPB  | WLS28-2XW710XM       | WLS28-2CW710XM  | 710 mm         |                    |
| WLS28-2XW850X     | WLS28-2CW850X  | WLS28-2XW850XPB            | WLS28-2CW850XPB  | WLS28-2XW850XM       | WLS28-2CW850XM  | 850 mm         |                    |
| WLS28-2XW990X     | WLS28-2CW990X  | WLS28-2XW990XPB            | WLS28-2CW990XPB  | WLS28-2XW990XM       | WLS28-2CW990XM  | 990 mm         |                    |
| WLS28-2XW1130X    | WLS28-2CW1130X | WLS28-2XW1130XPB           | WLS28-2CW1130XPB | WLS28-2XW1130XM      | WLS28-2CW1130XM | 1130 mm        |                    |

Integral 2 m (6.5 ft) unterminated cable models are listed. To order the 4-pin M12 integral quick disconnect model, add the suffix "Q" to the model number. For example, WLS28-2XW285XQ.

### IP67/IP69K Models

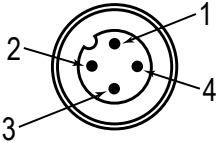
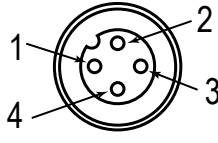
| Model          |                | Lighted Length | Connector          |
|----------------|----------------|----------------|--------------------|
| Stand-Alone    | Cascade        |                |                    |
| WLS28-2XW145S  | WLS28-2CW145S  | 145 mm         | 2 m (6.5 ft) cable |
| WLS28-2XW285S  | WLS28-2CW285S  | 285 mm         |                    |
| WLS28-2XW430S  | WLS28-2CW430S  | 430 mm         |                    |
| WLS28-2XW570S  | WLS28-2CW570S  | 570 mm         |                    |
| WLS28-2XW710S  | WLS28-2CW710S  | 710 mm         |                    |
| WLS28-2XW850S  | WLS28-2CW850S  | 850 mm         |                    |
| WLS28-2XW990S  | WLS28-2CW990S  | 990 mm         |                    |
| WLS28-2XW1130S | WLS28-2CW1130S | 1130 mm        |                    |

Integral 2 m (6.5 ft) unterminated cable models are listed. To order the 4-pin M12 integral quick disconnect model, add the suffix "Q" to the model number. For example, WLS28-2XW285SQ.

<sup>(1)</sup> Sealed models not available with High/Low/Off or motion switch.

<sup>(2)</sup> Requires a mating cordset.

## Wiring Diagram

| Male                                                                              | Female                                                                            | Pin | Wire Color | Connection                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 1   | Brown      | 12 V DC to 30 V DC                                                                                                                                                                                                                                                         |
|                                                                                   |                                                                                   | 3   | Blue       | DC common                                                                                                                                                                                                                                                                  |
|                                                                                   |                                                                                   | 4   | Black      | Models without motion detection: Connect to 12 V DC to 30 V DC for 50% maximum intensity. For maximum intensity, leave the black wire floating or connected to common.<br>Models with motion detection: Connect to 12 V DC to 30 V DC to bypass the motion detector switch |
|                                                                                   |                                                                                   | 2   | White      | Not used                                                                                                                                                                                                                                                                   |
|                                                                                   |                                                                                   |     |            |                                                                                                                                                                                                                                                                            |

## Specifications

### Supply Voltage and Current

12 V DC to 30 V DC

Use only with suitable Class 2 power supply (UL) or a SELV power supply (CE).

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Light Characteristics

Cool white

Color Temperature (CCT): 6500K (+500K, -400K)  
Lumen output: 800 (± 5%) per foot, typical at 25 °C (77 °F)  
Luminous efficacy: 110 lumens/Watt typical at 24 V DC at 25 °C (77 °F)  
CRI: 85, typical

Warm white: 3000K (+200K, -100K)

Green: 525 nm

Red: 618 nm

Yellow: 590 nm

Blue: 460 nm

### LED Lifetime

Lumen Maintenance = L<sub>70</sub>

When operating within specifications, output will decrease less than 30% after 75,000 hours.

### Push Button

II = 100% light intensity

I = 50% light intensity

0 = Off

### Models with Motion Detection

Light turns off after approximately 60 seconds without detecting motion

Range: 12 meters; ± 45° field of view

Standby current: 170 µA

### Construction

Clear anodized aluminum housing; painted zinc end caps; polycarbonate window on clear and diffuse plastic models; acrylic window on L25 models; zinc-plated steel brackets

### Mounting

(2) swivel brackets SMBWLS28RA included and (4) screws

### Connections

Integral 4-pin M12 male quick-disconnect connector (4-pin connecting cordset required); or 2 m (6.5 ft) integral PVC-jacketed cable

### Environmental Rating

IP50 (non-sealed models) or IP65, IP67, IP69K per ISO 20653 (sealed models)

### Vibration and Mechanical Shock

Vibration 10-55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6

Shock 15G 11 ms duration, half sine wave per IEC 60068-2-27

### Operating Temperature

Models without motion detection: -40 °C to +70 °C (-40 °F to +158 °F)

Models with motion detection: -20 °C to +60 °C (-4 °F to +140 °F)

Light output begins to decrease above 50 °C (122 °F) and will be approximately 65% of max intensity at 60 °C (140 °F) and 30% of max intensity at 70 °C (158 °F)

### Storage Temperature

-40 °C to +70 °C (-40 °F to +158 °F)

### Certifications



Banner Engineering BV  
Park Lane, Culliganlaan 2F bus 3  
1831 Diegem, BELGIUM



Sealed models only

### Application Note

When connecting cascable lights in series at 100% intensity, it is important not to exceed maximum current limitations:

Maximum length of light at 12 V DC: 1.4 m (4.6 ft)

Maximum length of light at 24 V DC: 3.0 m (9.8 ft)

Maximum length of light at 30 V DC: 3.1 m (10.2 ft)

At 50% intensity, double the lengths.

**NOTE:** Do not spray cable with high-pressure sprayer, or cable damage will result.

## Typical Current

| Light Length | Typical Current |         |         | Max. Current | Lumens <sup>(3)</sup> (Typical at 25 °C) |            |       |     |        |      |
|--------------|-----------------|---------|---------|--------------|------------------------------------------|------------|-------|-----|--------|------|
|              | 12 V DC         | 24 V DC | 30 V DC | A            | Cool White                               | Warm White | Green | Red | Yellow | Blue |
| 145 mm       | 0.33 A          | 0.15 A  | 0.12 A  | 0.4          | 400                                      | 400        | 180   | 55  | 50     | 40   |
| 285 mm       | 0.66 A          | 0.3 A   | 0.24 A  | 0.8          | 800                                      | 800        | 360   | 110 | 100    | 80   |
| 430 mm       | 1.01 A          | 0.46 A  | 0.36 A  | 1.2          | 1200                                     | 1200       | 540   | 165 | 150    | 120  |
| 570 mm       | 1.36 A          | 0.61 A  | 0.48 A  | 1.6          | 1600                                     | 1600       | 720   | 220 | 200    | 160  |
| 710 mm       | 1.75 A          | 0.77 A  | 0.6 A   | 2            | 2000                                     | 2000       | 900   | 275 | 250    | 200  |
| 850 mm       | 2.13 A          | 0.92 A  | 0.73 A  | 2.4          | 2400                                     | 2400       | 1080  | 330 | 300    | 240  |
| 990 mm       | 2.59 A          | 1.08 A  | 0.85 A  | 2.8          | 2800                                     | 2800       | 1260  | 385 | 350    | 280  |
| 1130 mm      | 3.04 A          | 1.24 A  | 0.97 A  | 3.2          | 3200                                     | 3200       | 1440  | 440 | 400    | 320  |

## FCC Part 15 Class B for Unintentional Radiators

(Part 15.105(b)) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

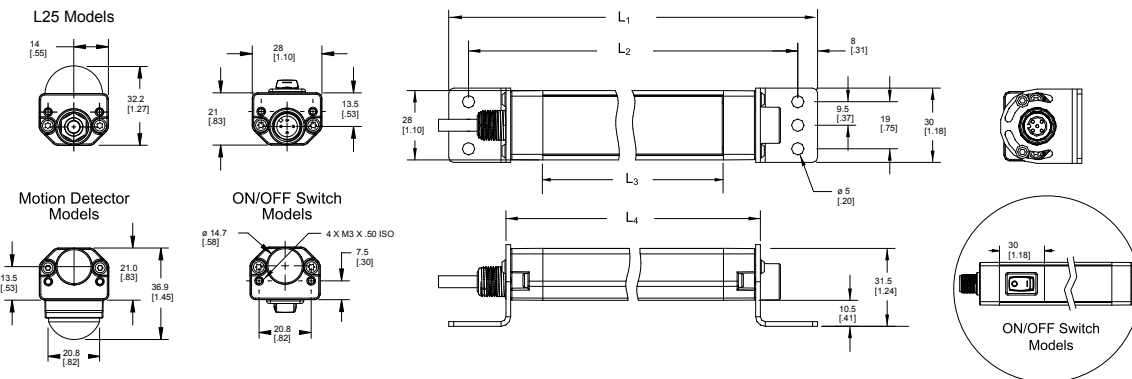
## Industry Canada ICES-003(B)

This device complies with CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions: 1) This device may not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

## Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.



Dimensions are shown with the included SMBWLS28RA bracket.

### Non-Switch Models

| IP50 Models   | IP67/IP69K Models | L <sub>1</sub>   | L <sub>2</sub>   | L <sub>3</sub>    | L <sub>4</sub>   |
|---------------|-------------------|------------------|------------------|-------------------|------------------|
| WLS28-2..145X | WLS28-2..145S     | 221 mm (8.7 in)  | 205 mm (8.1 in)  | 145 mm (5.71 in)  | 175 mm (6.9 in)  |
| WLS28-2..285X | WLS28-2..285S     | 362 mm (14.3 in) | 346 mm (13.6 in) | 286 mm (11.26 in) | 316 mm (12.4 in) |
| WLS28-2..430X | WLS28-2..430S     | 503 mm (19.8 in) | 487 mm (19.2 in) | 427 mm (16.81 in) | 457 mm (18.0 in) |
| WLS28-2..570X | WLS28-2..570S     | 644 mm (25.4 in) | 628 mm (24.7 in) | 568 mm (22.36 in) | 598 mm (23.5 in) |

Continued on page 5

<sup>(3)</sup> Lumen values lowered by 25% on diffused window and 25 degree lensed models.

Continued from page 4

| IP50 Models    | IP67/IP69K Models | L <sub>1</sub>    | L <sub>2</sub>    | L <sub>3</sub>     | L <sub>4</sub>    |
|----------------|-------------------|-------------------|-------------------|--------------------|-------------------|
| WLS28-2..710X  | WLS28-2..710S     | 785 mm (30.9 in)  | 769 mm (30.3 in)  | 709 mm (27.91 in)  | 739 mm (29.1 in)  |
| WLS28-2..850X  | WLS28-2..850S     | 926 mm (36.5 in)  | 910 mm (35.8 in)  | 850 mm (33.46 in)  | 880 mm (34.6 in)  |
| WLS28-2..990X  | WLS28-2..990S     | 1067 mm (42 in)   | 1051 mm (41.4 in) | 991 mm (39.02 in)  | 1021 mm (40.2 in) |
| WLS28-2..1130X | WLS28-2..1130S    | 1208 mm (47.6 in) | 1192 mm (46.9 in) | 1132 mm (44.57 in) | 1162 mm (45.7 in) |

**ON/OFF Switch Models**

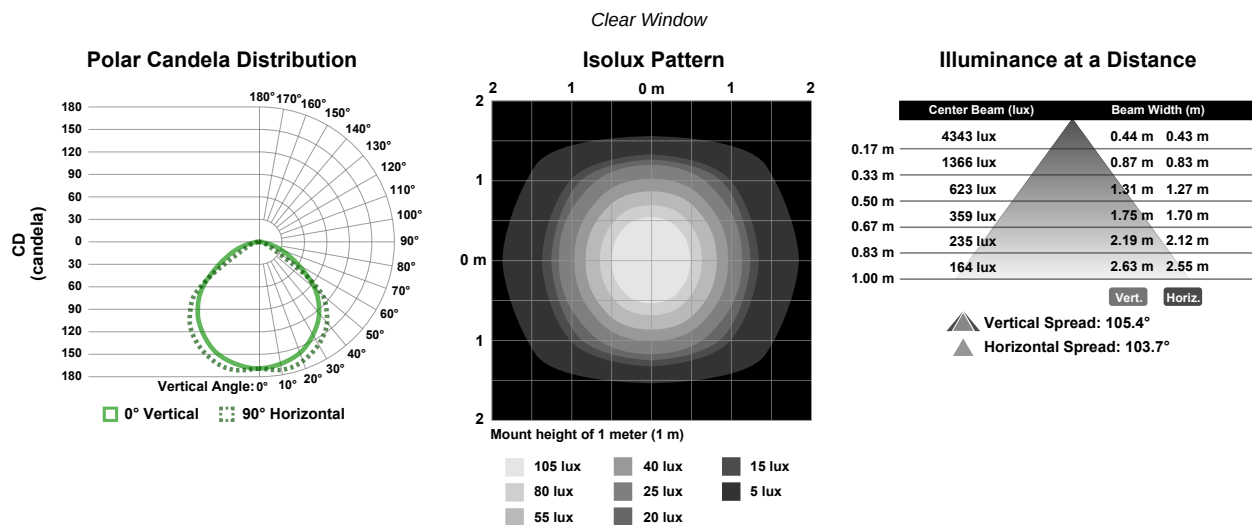
| Model            | L <sub>1</sub>    | L <sub>2</sub>    | L <sub>3</sub>     | L <sub>4</sub>    |
|------------------|-------------------|-------------------|--------------------|-------------------|
| WLS28-2..145XPB  | 251 mm (9.9 in)   | 235 mm (9.3 in)   | 145 mm (5.71 in)   | 205 mm (8.1 in)   |
| WLS28-2..285XPB  | 392 mm (15.4 in)  | 376 mm (14.8 in)  | 286 mm (11.26 in)  | 346 mm (13.6 in)  |
| WLS28-2..430XPB  | 533 mm (21.0 in)  | 517 mm (20.4 in)  | 427 mm (16.81 in)  | 487 mm (19.2 in)  |
| WLS28-2..570XPB  | 674 mm (26.5 in)  | 658 mm (25.9 in)  | 568 mm (22.36 in)  | 628 mm (24.7 in)  |
| WLS28-2..710XPB  | 815 mm (32.1 in)  | 799 mm (31.5 in)  | 709 mm (27.91 in)  | 769 mm (30.3 in)  |
| WLS28-2..850XPB  | 956 mm (37.6 in)  | 940 mm (37 in)    | 850 mm (33.46 in)  | 910 mm (35.8 in)  |
| WLS28-2..990XPB  | 1097 mm (43.2 in) | 1081 mm (42.6 in) | 991 mm (39.02 in)  | 1051 mm (41.4 in) |
| WLS28-2..1130XPB | 1238 mm (48.7 in) | 1222 mm (48.1 in) | 1132 mm (44.57 in) | 1192 mm (46.9 in) |

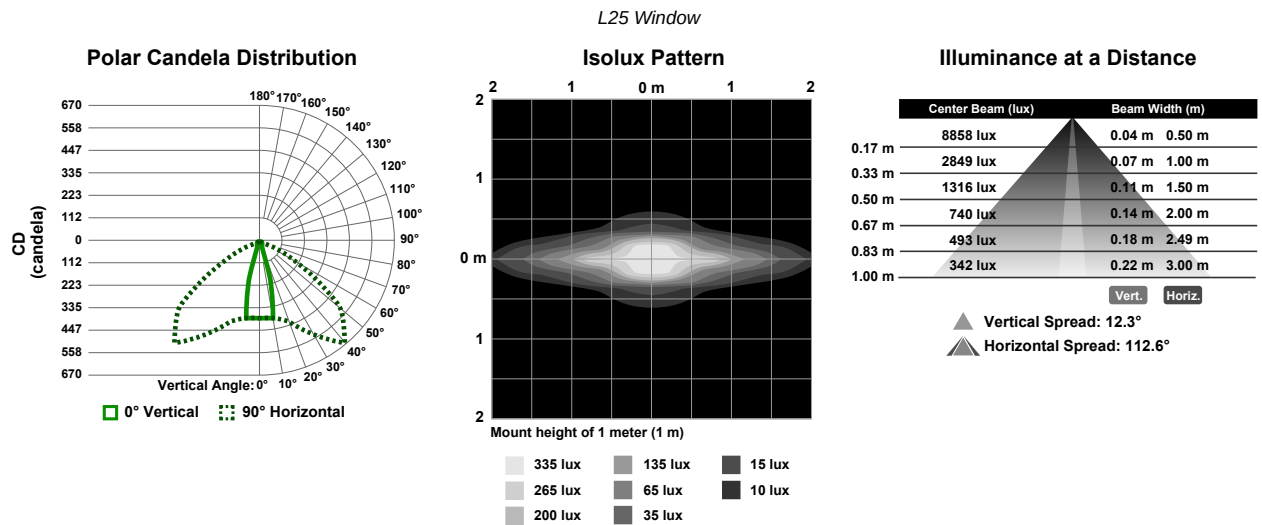
## Performance

Optical data shown below are for cool white models with a clear window only. To get lux and candela values for models with a diffuse window and/or other colors, multiply the values shown on the charts by the following factors:

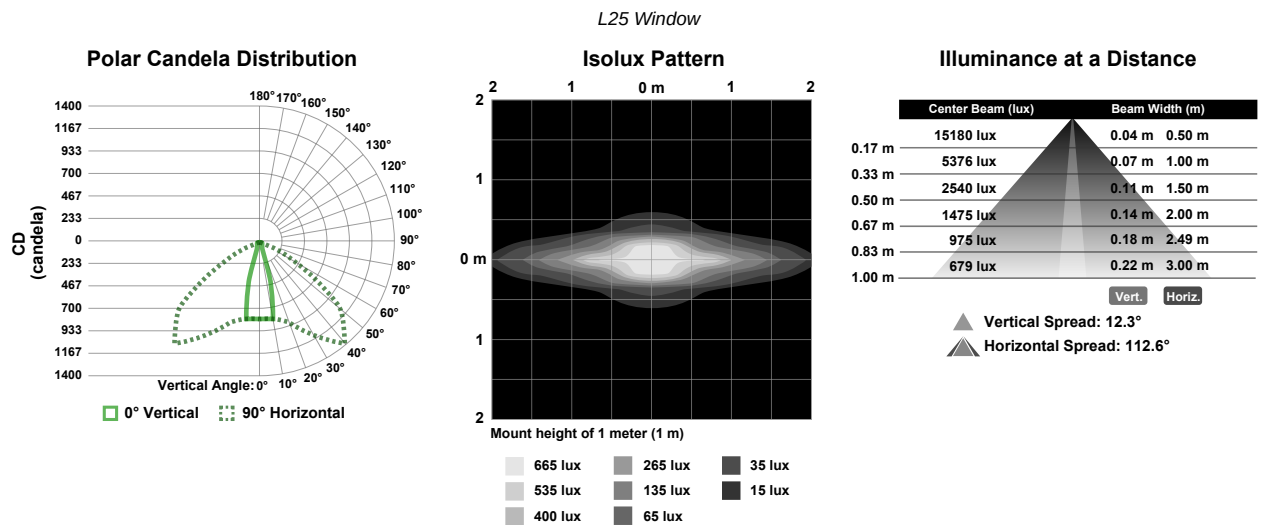
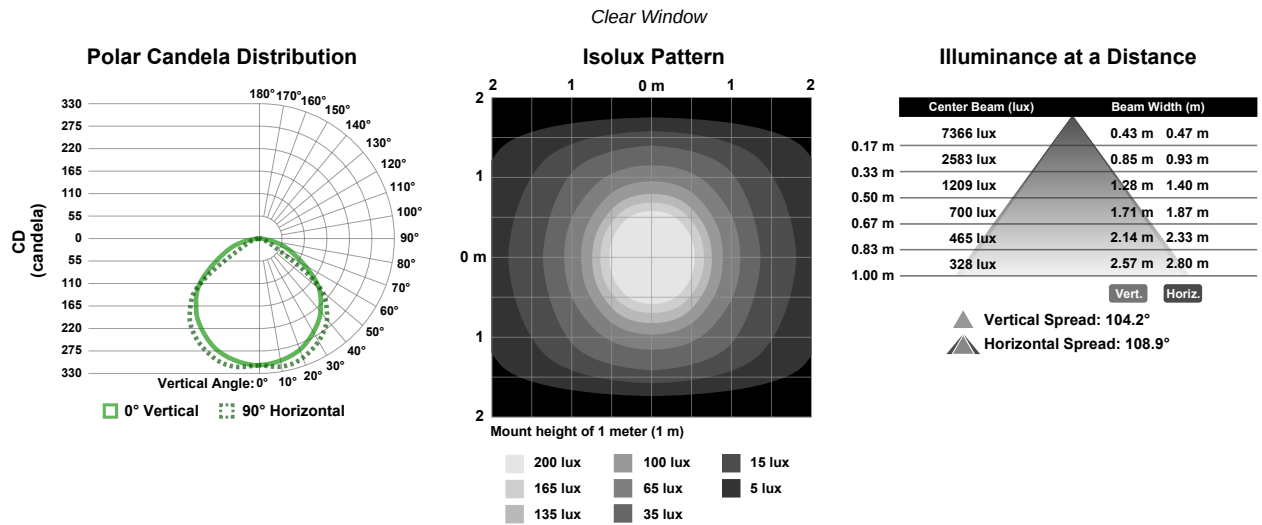
| Diffuse Window | Warm White | Green | Red   | Yellow | Blue |
|----------------|------------|-------|-------|--------|------|
| 0.75           | 1          | 0.45  | 0.138 | 0.125  | 0.1  |

### 145 mm Models

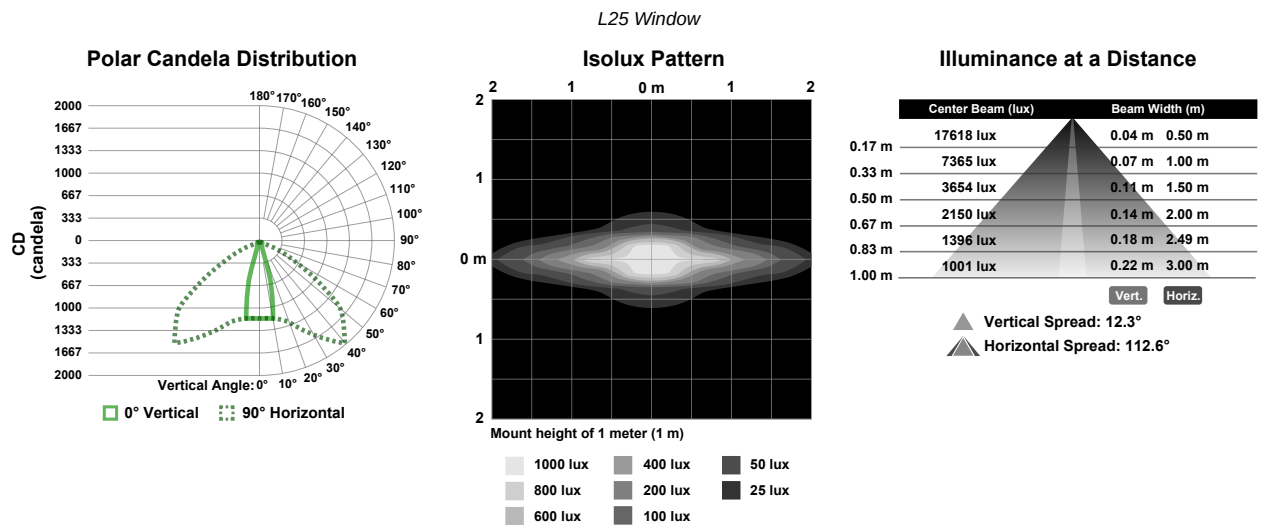
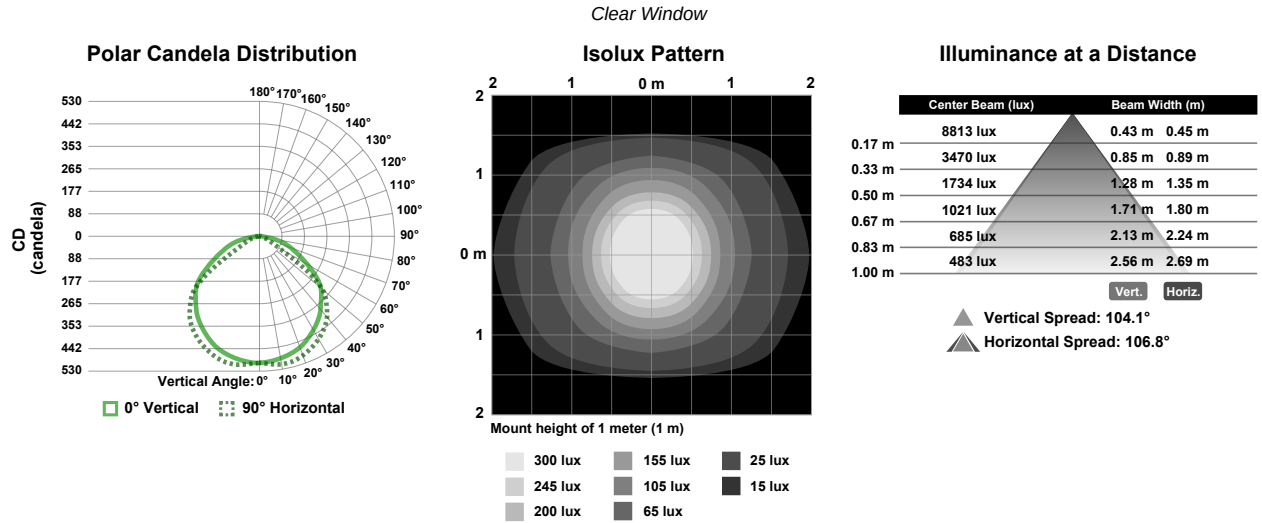




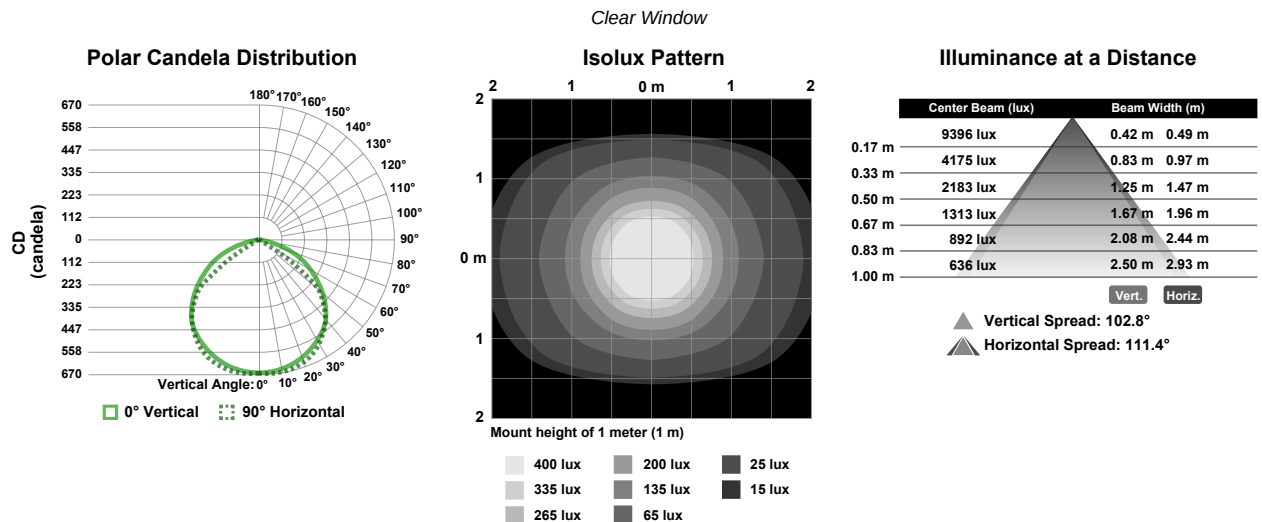
## 285 mm Models

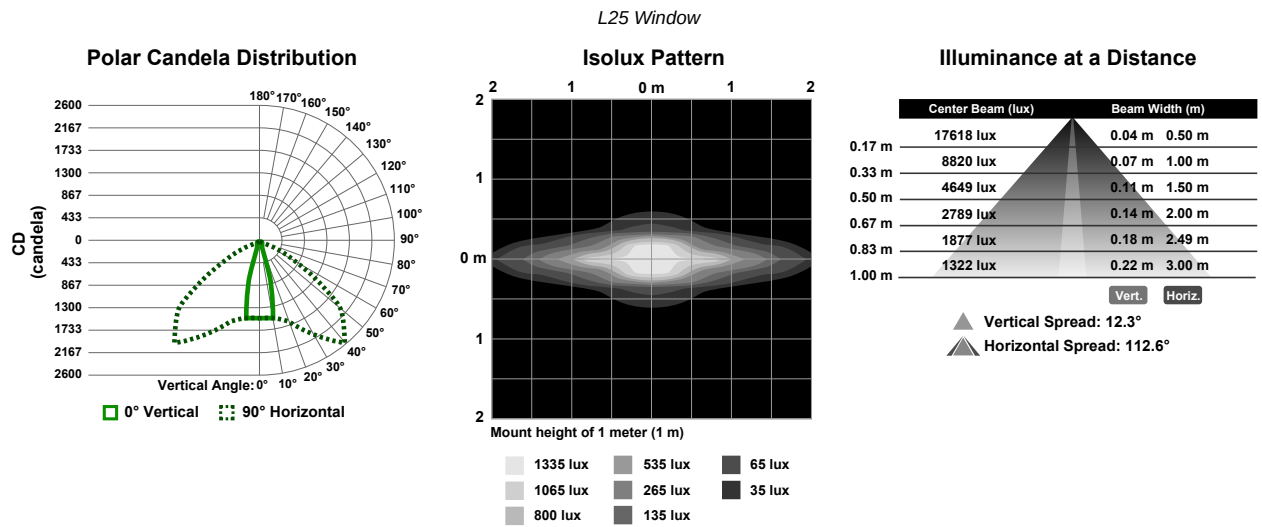


## 430 mm Models

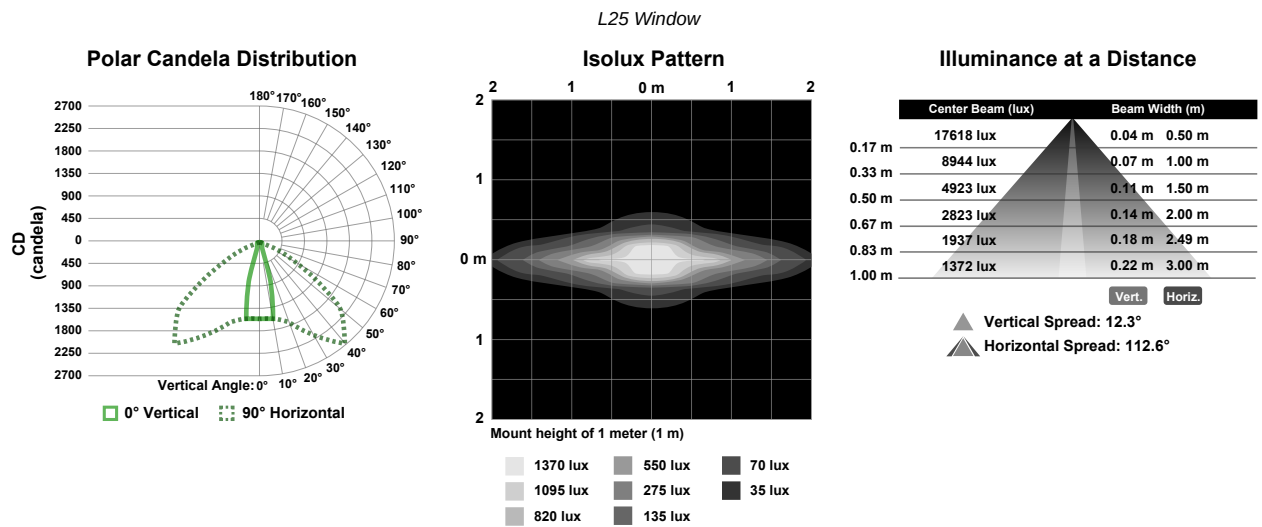
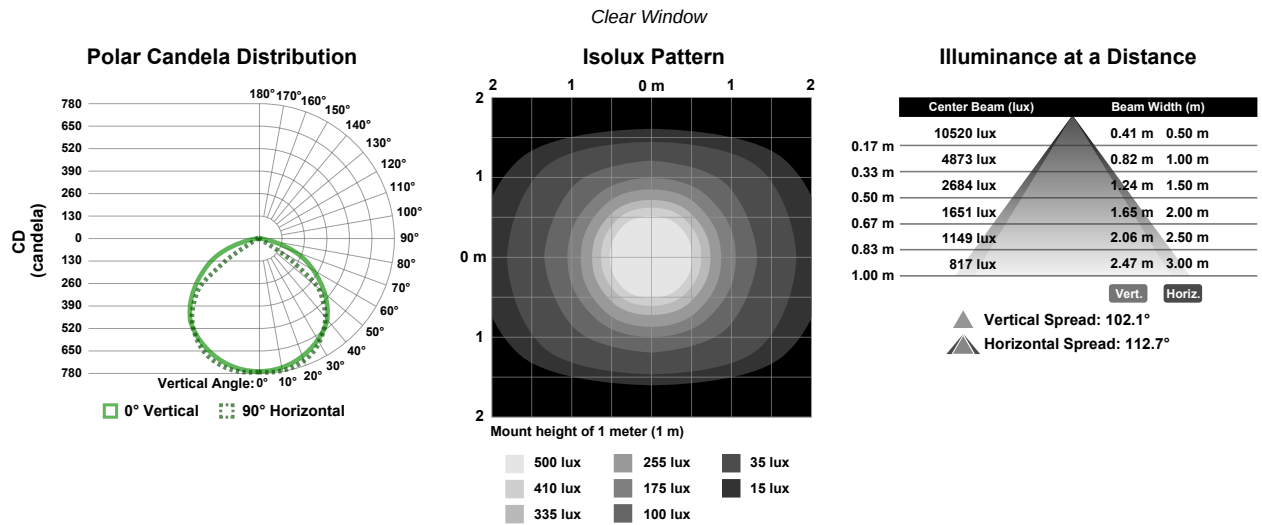


## 570 mm Models



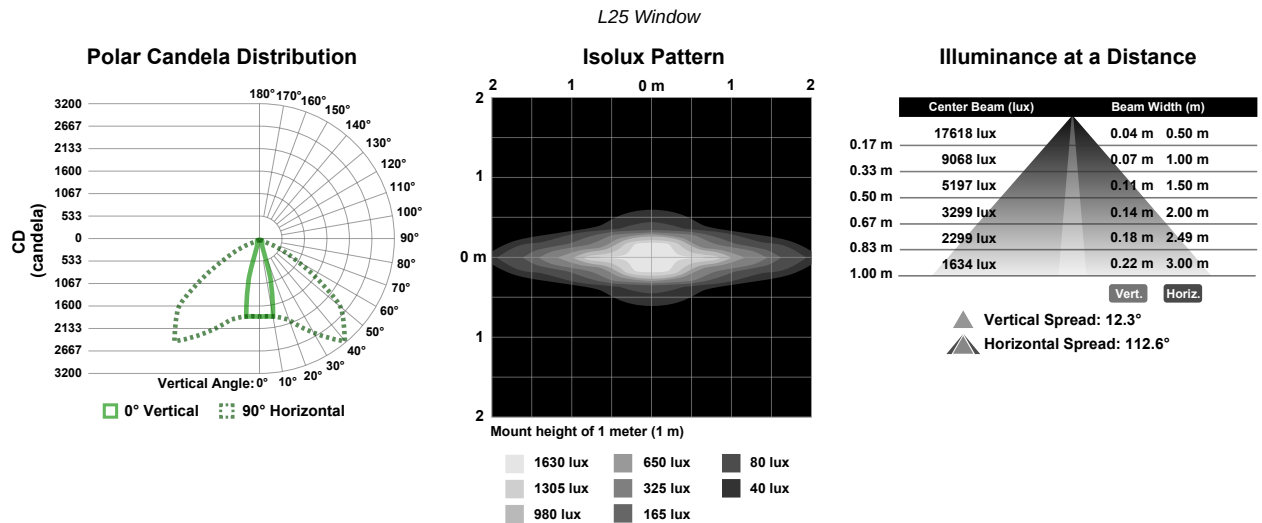
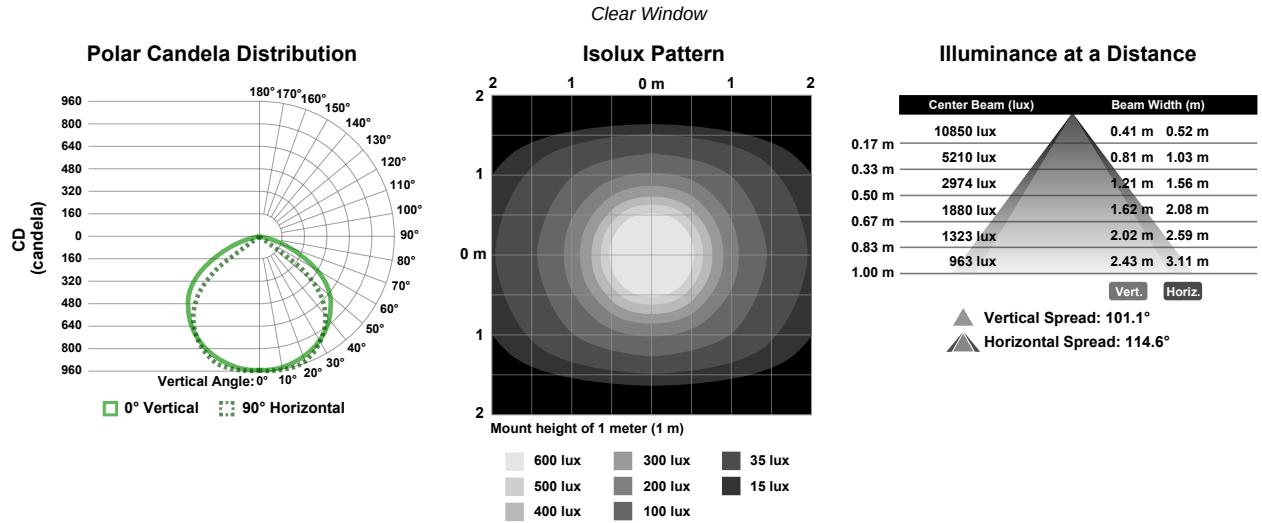


## 710 mm Models

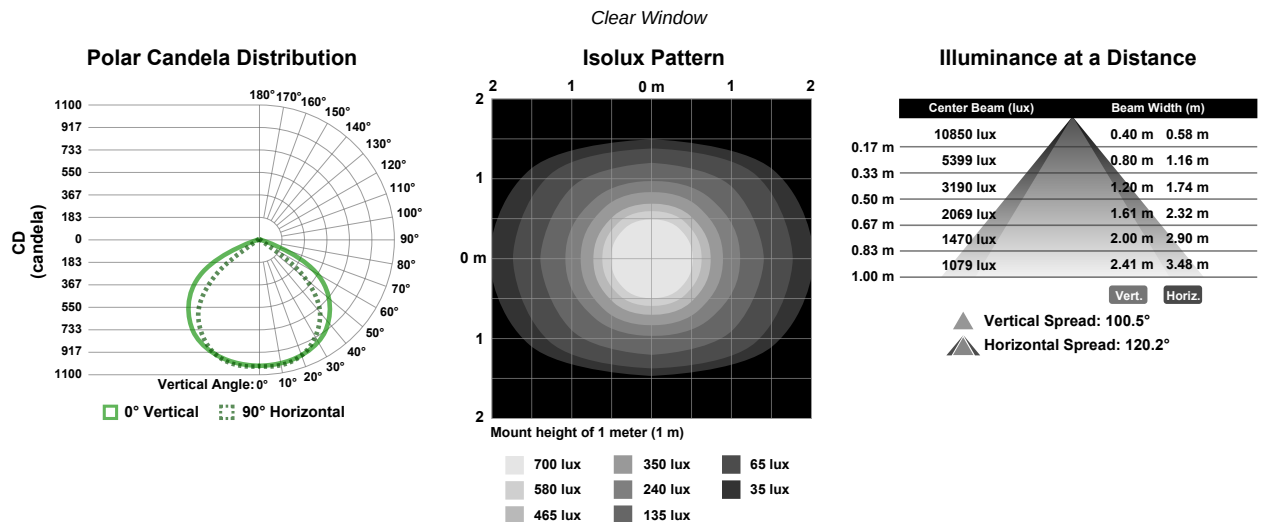


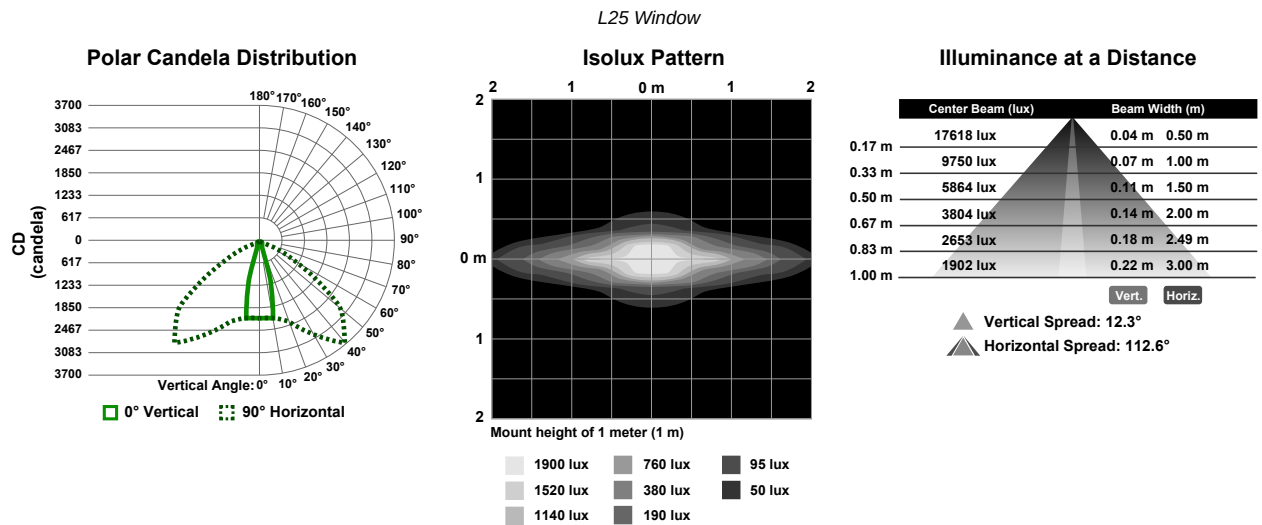


## 850 mm Models

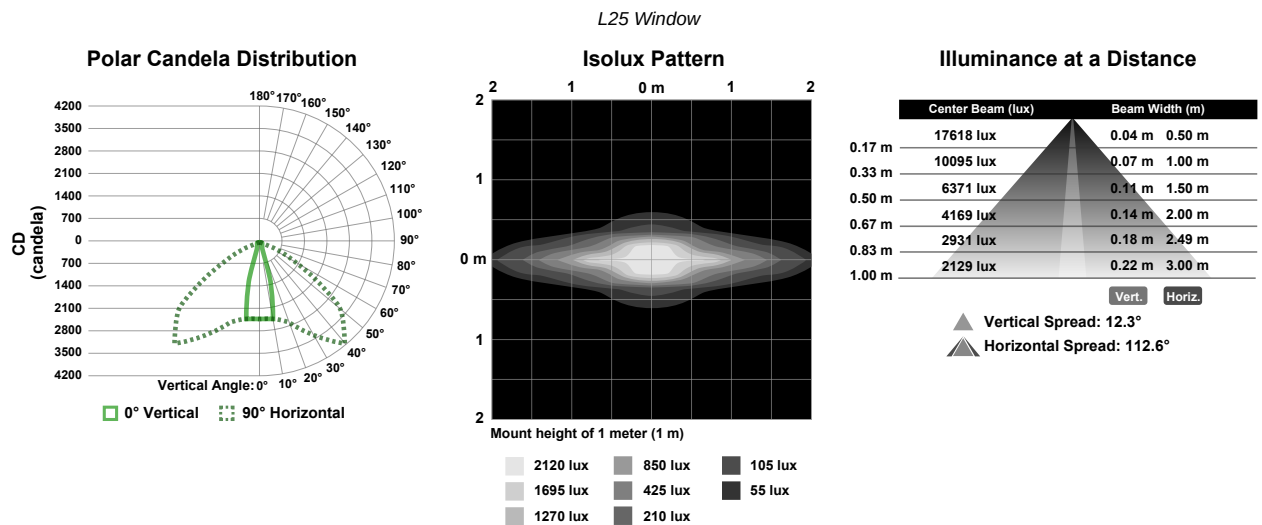
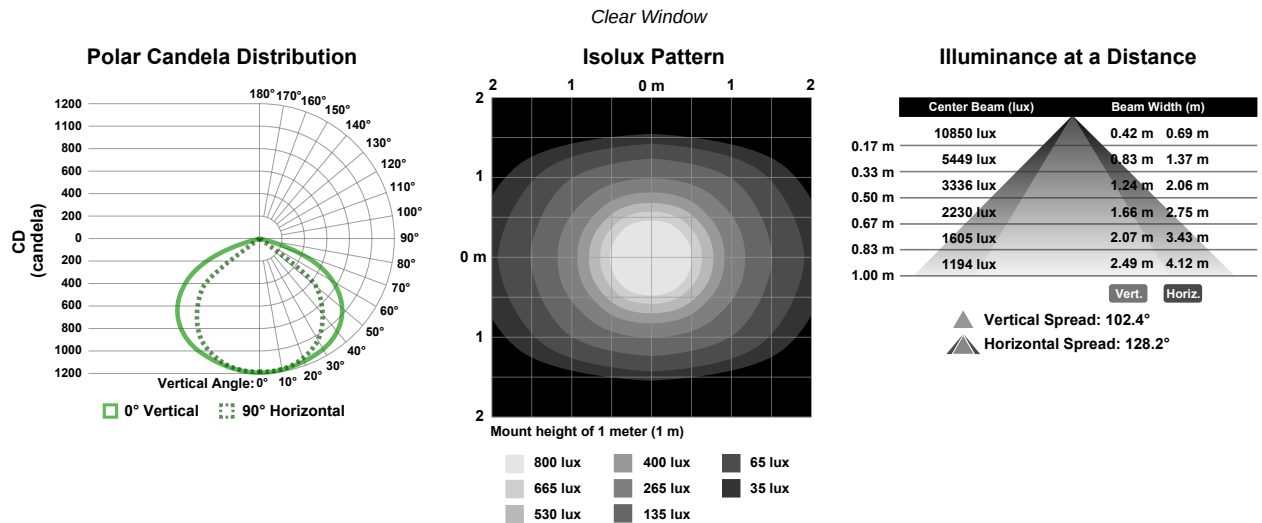


## 990 mm Models





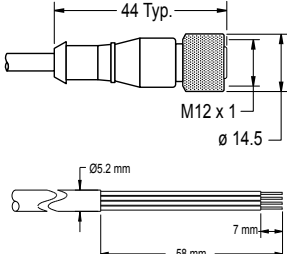
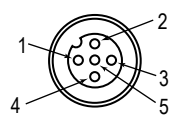
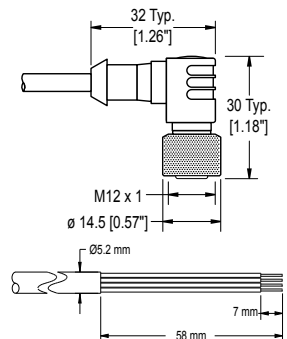
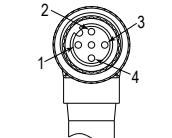
## 1130 mm Models

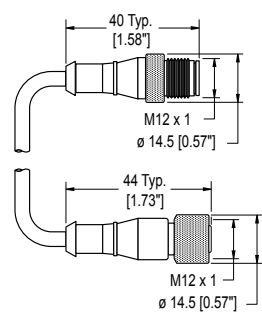
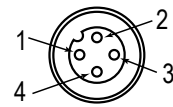
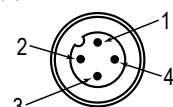


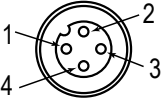
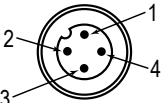
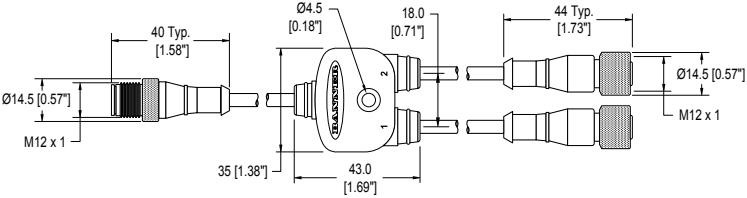
## Accessories

### Cordsets

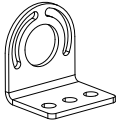
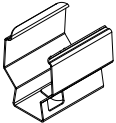
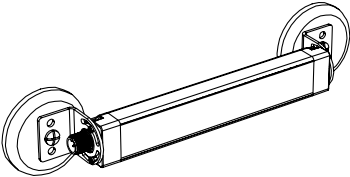
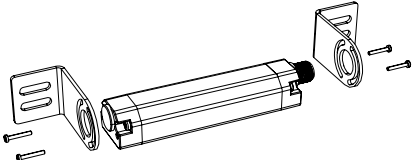
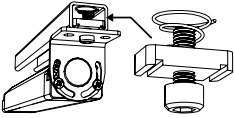
Use single-ended cordsets between the power source and the QD connection of a stand-alone light or the first light in a cascade. Use double-ended cordsets between lights in a cascade.

| 4-Pin Single-Ended M12 Female Cordsets                                              |                |             |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|----------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Model                                                                               | Length         | Style       | Dimensions                                                                          | Pinout (Female)                                                                     |
| MQDC-406                                                                            | 2 m (6.56 ft)  | Straight    |   |  |
| MQDC-415                                                                            | 5 m (16.4 ft)  |             |                                                                                     |                                                                                     |
| MQDC-430                                                                            | 9 m (29.5 ft)  |             |                                                                                     |                                                                                     |
| MQDC-450                                                                            | 15 m (49.2 ft) |             |                                                                                     |                                                                                     |
| MQDC-406RA                                                                          | 2 m (6.56 ft)  | Right-Angle |  |  |
| MQDC-415RA                                                                          | 5 m (16.4 ft)  |             |                                                                                     |                                                                                     |
| MQDC-430RA                                                                          | 9 m (29.5 ft)  |             |                                                                                     |                                                                                     |
| MQDC-450RA                                                                          | 15 m (49.2 ft) |             |                                                                                     |                                                                                     |
| 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black<br>5 = Not used                     |                |             |                                                                                     |                                                                                     |
|  |                |             |                                                                                     |                                                                                     |

| 4-Pin Double-Ended M12 Female to M12 Male Cordsets |                  |                               |                                                                                      |                                                                                       |
|----------------------------------------------------|------------------|-------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Model                                              | Length           | Style                         | Dimensions                                                                           | Pinout                                                                                |
| MQDEC-401SS                                        | 0.31 m (1 ft)    | Male Straight/Female Straight |  | Female                                                                                |
| MQDEC-403SS                                        | 0.91 m (2.99 ft) |                               |                                                                                      |  |
| MQDEC-406SS                                        | 1.83 m (6 ft)    |                               |                                                                                      | Male                                                                                  |
| MQDEC-412SS                                        | 3.66 m (12 ft)   |                               |                                                                                      |  |
| MQDEC-415SS                                        | 4.58 m (15 ft)   |                               |                                                                                      | 1 = Brown<br>2 = White<br>3 = Blue<br>4 = Black                                       |
| MQDEC-420SS                                        | 6.10 m (20 ft)   |                               |                                                                                      |  |
| MQDEC-430SS                                        | 9.14 m (30.2 ft) |                               |                                                                                      |                                                                                       |
| MQDEC-450SS                                        | 15.2 m (49.9 ft) |                               |                                                                                      |                                                                                       |

| 4-Pin Flat Junction M12 Female Branch to M12 MaleTrunk Splitter Cordsets           |                   |                             |                                                                                                                                                                   |
|------------------------------------------------------------------------------------|-------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                              | Branches (Female) | Trunk (Male)                | Pinout                                                                                                                                                            |
| CSB-M1240M1240                                                                     | No branch         | No trunk                    | <div>Female</div>                                                              |
| CSB-M1240M1241                                                                     | 2 × 0.3 m (1 ft)  | No trunk                    |                                                                                                                                                                   |
| CSB-M1241M1241                                                                     |                   | 0.31 m (1 ft)               |                                                                                                                                                                   |
| CSB-M1248M1241                                                                     |                   | 2.44 m (8 ft)               |                                                                                                                                                                   |
| CSB-M12415M1241                                                                    |                   | 4.57 m (15 ft)              |                                                                                                                                                                   |
| CSB-M12425M1241                                                                    |                   | 7.60 m (25 ft)              |                                                                                                                                                                   |
| CSB-UNT425M1241                                                                    |                   | 7.60 m (25 ft) Unterminated |                                                                                                                                                                   |
| CSB-M1243M1243                                                                     | 2 × 1 m (3.28 ft) | 1 m (3.28 ft)               | <div>Male</div>  <div>1 = Brown<br/>2 = White<br/>3 = Blue<br/>4 = Black</div> |
|  |                   |                             |                                                                                                                                                                   |

Brackets

|                                                                                                                                                                                                                                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>SMBWLS28RA</b> <ul style="list-style-type: none"><li>Replacement end bracket kit</li><li>1.8 mm (14 gage) cold rolled steel with zinc plate, clear chromate finish</li><li>Kit contains two end brackets and four screws</li></ul>                                                                 |    |
| <b>SMBWLS28SP</b> <ul style="list-style-type: none"><li>Stainless steel snap bracket kit</li><li>Includes two brackets</li></ul>                                                                                                                                                                      |  |
| <b>SMBWLSMAG</b> <ul style="list-style-type: none"><li>Magnetic mounting bracket for easy attachment to steel surfaces</li></ul> <b>SMBWLSMAGR</b> <ul style="list-style-type: none"><li>Protective cover also available to prevent scratches to painted surfaces</li></ul>                           |  |
| <b>SMBWLS28SM</b> <ul style="list-style-type: none"><li>End bracket kit</li><li>Cold Rolled Steel with a clear zinc finish</li><li>Allows the light or switch to be mounted at a right angle to the mounting surface</li><li>Kit contains two end brackets and four screws</li></ul>                  |  |
| <b>SMH1316</b> <p>This kit allows the light or switch to be mounted to a 13/16-inch Unistrut channel. Light is shown. The kit includes:</p> <ul style="list-style-type: none"><li>#10-32 spring nuts (qty 2)</li><li>#10-32 socket head cap screws (qty 2)</li><li>#10 lock washers (qty 2)</li></ul> |  |

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