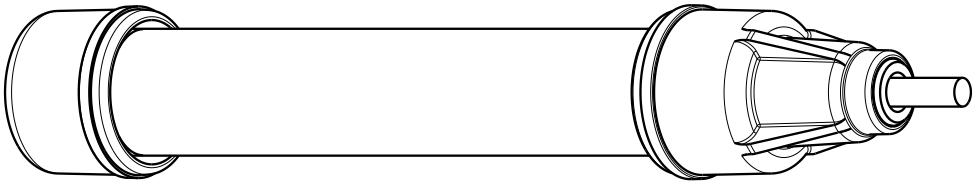
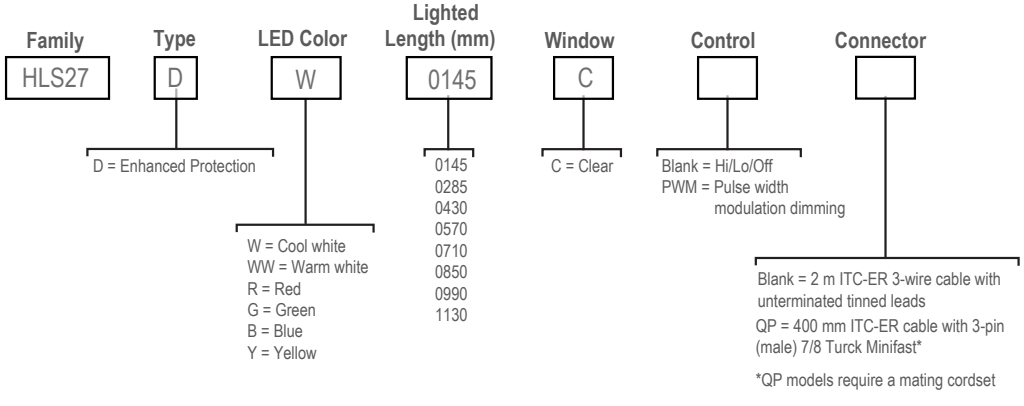
Features

Banner's HLS27 Hazardous Location LED Strip Light has a sturdy aluminum housing and is encased in a shatterproof, UV-stabilized, polycarbonate shell, making it ideal for harsh indoor and outdoor applications.



- Low-profile, space-saving design for use in hazardous locations
- Rugged, water-resistant IP66, IP67 design
- Available in eight lengths from 145 mm to 1130 mm
- Available in single or dual color models
- Standard and optional 300 series stainless steel mounting brackets protect against impact
- Single color models have the capability to dim lights using the wiring pinout (Hi/Lo/Off)
- Pulse Width Modulation (PWM) models have the capability to control intensity from 0% to 100% using PWM on an input control wire
- Automatic temperature protection built into the unit—above 50 °C, the light dims to manage heat and protect product lifetime
- Certification for cULus and ATEX/UKCA/IECEx, see details in specifications

Single Color and PWM Models



Type	Protection	Suitable for ATEX / UKCA / IECEx		Suitable for NEC & CEC	
		Models with Unterminated Leads	Models with Turck Minifast	Models with Unterminated Leads	Models with Turck Minifast
D	Enhanced Protection	Gas Zone: 2 Dust Zone: 22	Gas Zone: 2	Gas Zone: 2 Dust Zone: 22 Class I Division 2 Class II Division 2 Class III Division 1 and 2	Gas Zone: 2 Class I Division 2

IMPORTANT: QP models require a mating cordset and are not approved for use in locations where dust or fibers creates a hazard: Class II, Class III, and Zone 22. Select the 2.0 m unterminated cable option for locations where Class II, Class III, or Zone 22 certifications is required.

Original Instructions
19-Aug-25

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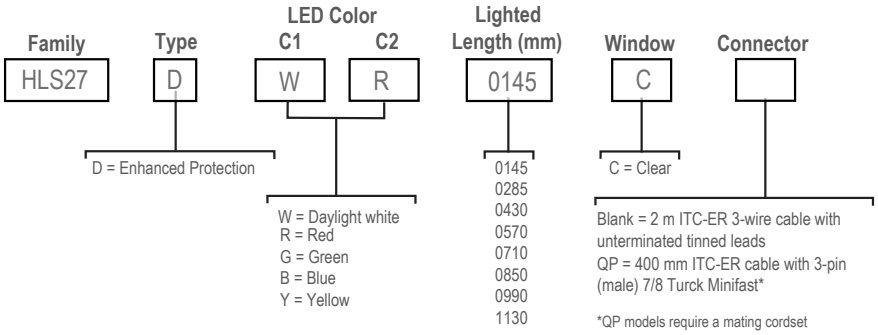
197949
p/n: 197949 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Dual Color Models



Type	Protection	Suitable for ATEX / UKCA / IECEx		Suitable for NEC & CEC	
		Models with Unterminated Leads	Models with Turck Minifast	Models with Unterminated Leads	Models with Turck Minifast
D	Enhanced Protection	Gas Zone: 2 Dust Zone: 22	Gas Zone: 2	Gas Zone: 2 Dust Zone: 22 Class I Division 2 Class II Division 2 Class III Division 1 and 2	Gas Zone: 2 Class I Division 2

IMPORTANT: QP models require a mating cordset and are not approved for use in locations where dust or fibers creates a hazard: Class II, Class III, and Zone 22. Select the 2.0 m unterminated cable option for locations where Class II, Class III, or Zone 22 certifications is required.

Installation Instructions

Hazardous Location Applications

WARNING:
- **Hazardous Locations**
- It is the user's responsibility to ensure that all local, state, and national laws, rules, codes, or regulations relating to the installation and use of this device in any particular application are satisfied. This device must be installed by Qualified Persons, in accordance with this document and applicable regulations.
- A Qualified Person is a person who, by possession of a recognized degree or certificate of professional training, or who, by extensive knowledge, training and experience, has successfully demonstrated the ability to solve problems relating to the subject matter and work.

WARNING: The hazardous location mounting hardware is designed to help protect the HLS27 light from damage during impact and must be used in all hazardous location applications. Failure to use the Banner supplied mounting hardware correctly will void the hazardous location rating of the light.

WARNING:
- **Electrostatic Discharge (ESD) Specific Conditions for Safe Use**
- Parts of the enclosure are non-conducting and can generate an ignition-capable level of ESD.
- To reduce the risk of ignition due to electrostatic discharge, avoid contact with the equipment while an explosive atmosphere is present.
- Clean the equipment with only a damp cloth.

Specific Conditions for Use and General Notes:
- See Specifications and Wiring Diagrams for important information concerning entity parameters, permissible locations, electrical connections and certifications.
- In addition to the warning above concerning user responsibility, the installation must comply with the following:
  - All installations must comply with all manufacturer's instructions.
    - This device is provided with a PLTC-ER/ITC-ER cable and must be installed in accordance with the following:

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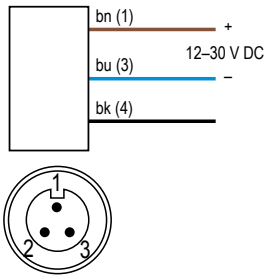
  - NEC Article 501.10 (B) for Class I Division 2
  - NEC Article 502.10 (B) for Class II Division 2
  - NEC Article 503.10 (A) or (B) for Class III Division 1 or 2 respectively
  - Canadian Electrical Code (CSA C22.1) for Canadian Installations
  - Section 9 of IEC 60079-14 for ATEX/UKCA/IECEx locations
- The PLTC-ER/ITC-ER cable shall be installed in accordance with the provisions of NEC Article 725 (PLTC-ER) or 727.4 (ITC-ER) for Class I Division 2, Class II Division 2, and Class III Division 1 and 2 locations.
- The 7/8 Turck Minifast connector must be used with a mating female 7/8 Minifast connector manufactured by Turck and certified for the appropriate location classification and installed following the requirements of Turck Control Drawing Ni-2.422. Examples of an appropriate mating connector are shown in "Accessories" on page 10 and are available for purchase separately from Banner.
- All connections in the hazardous location must be secured by a locking device. An example of appropriate locking device is shown in "Accessories" on page 10. One locking device is provided with each model that is fitted with a Turck Minifast connector. Locking devices are also available for purchase separately from Banner.
- The cable shall be terminated with a fitting certified for the appropriate location classification
- The device must be powered by a suitable Class 2 power supply (UL) or a SELV power supply (CE)

- Do not attempt any repairs to this device; it contains no field-replaceable parts or components. Tampering and/or replacement with non-factory components may adversely affect the safe use of the system.
- The nonconducting materials of this device may be susceptible to ignition-capable level of electrostatic charging and precautions must be taken to avoid this. The user/installer shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which are conducive to creating a build-up of electrostatic charges.
- The user/installer must take suitable precautions to prevent the device from being adversely affected by aggressive substances, such as acidic liquids or gases that may attack metals, or solvents that may affect polymeric (plastic) materials. Suitable precautions include routine inspection or maintenance procedures require replacement of damaged devices or establishing from the materials data sheet that the device is resistant to specific chemicals. These precautions must ensure that the type of protection is not compromised.

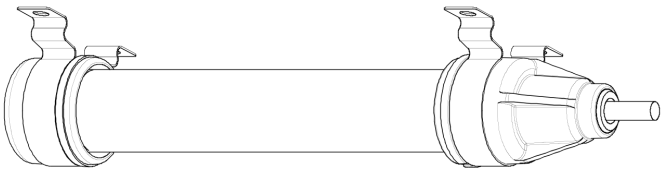
Wiring

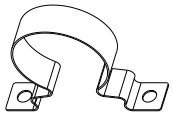
Unterminated and 3-pin Male Mini	Pin	Wire Color	Single Color Models	Dual Color Models	PWM Models
	1	blue (bu)	DC common	DC common	DC common
	2	brown (bn)	12 V DC to 30 V DC	Color 1: 12 V DC to 30 V DC	12 V DC to 30 V DC
	3	black (bk)	Connect to 12 V DC to 30 V DC for 50% intensity. For 100% intensity, leave the black wire floating or connected to common.	Color 2: 12 V DC to 30 V DC (color 2 overrides color 1)	Pulse width modulation (PWM) input. For maximum intensity, leave the black wire floating or connected to common. Connecting to 12 V DC to 30 V DC will cause LEDs to shut off.

Mounting Instructions

Multiple mounting options are available for the HLS27 in hazardous locations. In the two options listed below, the mounting brackets must be spaced a distance of (L4) apart to ensure the device meets impact protection standards for hazardous locations.

Included Mounting Hardware (LMBHLS27S – 2 Brackets). When using the standard mounting hardware, the mounting hole centers for each individual bracket must be spaced 50.0 mm (1.97 inches) from one another. This spacing is critical for the bracket to provide the required impact protection and prevent rotation of the light within the bracket. The stainless-steel bracket is designed to be used with M5 or #10 stainless-steel hardware.





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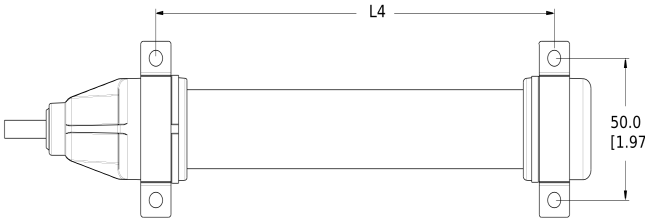
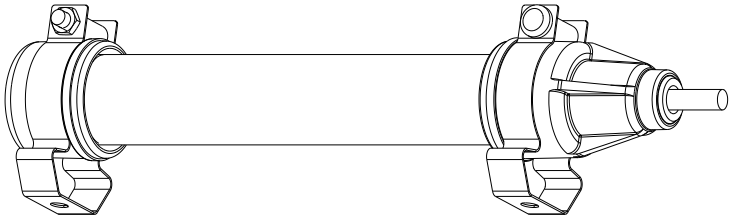
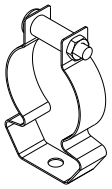
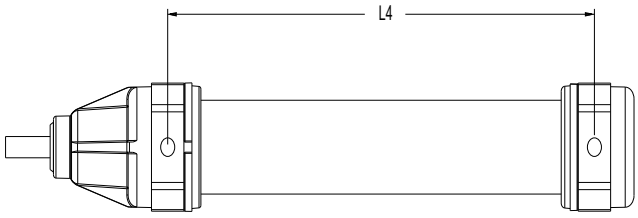


Models	L4
HLS27..0145..	168 mm (6.6 in)
HLS27..0285..	309 mm (12.2 in)
HLS27..0430..	450 mm (17.7 in)
HLS27..0570..	591 mm (23.3 in)
HLS27..0710..	732 mm (28.8 in)
HLS27..0850..	873 mm (34.4 in)
HLS27..0990..	1014 mm (39.9 in)
HLS27..1130..	1155 mm (45.5 in)

Optional Mounting Hardware (LMBHLS27O – 2 Brackets and Hardware) Purchased Separately. When using the optional mounting hardware, the head of the fastener used must not exceed 5.0 mm (0.2 inches) in height. Fasteners exceeding this height could damage the light housing during impact situations. When using the optional mounting hardware, the supplied spacer must be used with the bolt to maintain the correct bracket shape. This shape is critical for the bracket to provide the required impact protection. The stainless-steel bracket is designed to be used with M5 or #10 stainless-steel hardware.







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HLS27..1130..	1155 mm (45.5 in)

Light Anti-Rotation Pads

In applications where vibration is a concern or when light orientation is critical, use anti-rotation pads to prevent the light from rotating within the mounting brackets. Light rotation caused by vibration may be more pronounced with longer-length lights.

Attach the anti-rotation pads to the brackets, as shown in the figures, with the adhesive side applied to the bracket.

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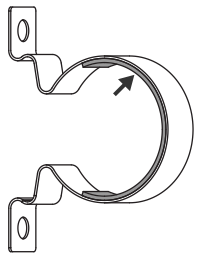
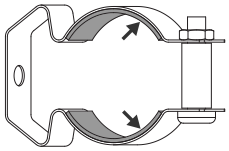
Included Mounting Hardware with Anti-Rotation Pads



NOTE: When using the optional mounting hardware, cut the anti-rotation pad and apply it to both sides of the mounting bracket as shown.

Optional Mounting Hardware with Anti-Rotation Pads



Specifications

Supply Voltage

12 V DC to 30 V DC

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

Light Length	Typical Current			Max. Current
	12 V DC	24 V DC	30 V DC	A
145 mm	0.33 A	0.15 A	0.12 A	0.4
285 mm	0.66 A	0.30 A	0.24 A	0.8
430 mm	1.01 A	0.46 A	0.36 A	1.2
570 mm	1.36 A	0.61 A	0.48 A	1.6
710 mm	1.75 A	0.77 A	0.60 A	2.0
850 mm	2.13 A	0.92 A	0.73 A	2.4
990 mm	2.59 A	1.08 A	0.85 A	2.8
1130 mm	3.04 A	1.24 A	0.97 A	3.2

Pulse Width Modulation (PWM Models Only)

Frequency: Up to 1000 Hz

Voltage: 8 V DC to 30 V DC

Current: 4 mA maximum per foot

Mounting

Bracket kit LMBHLS27S included (2 brackets for use with HLS27 Hazardous Location LED Strip Light)

Optional bracket kit LMBHLS27O (2 brackets and hardware for use with HLS27 Hazardous Location LED Strip Light)

Operating Temperature

For NEC & CEC applications: –40 °C to +60 °C (–40 °F to +140 °F)

For ATEX/UKCA/IECEx applications: –40 °C to +50 °C (–40 °F to +122 °F)

90% maximum relative humidity (non-condensing)

Light output begins to decrease above 50 °C (122 °F) and will be approximately 65% of maximum intensity of 60 °C (140 °F)

Storage Temperature: –40 °C to +70 °C (–40 °F to +158 °F)

Environmental Rating

IP66, IP67

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6

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

Connections

2 m long, 6.3 mm (0.25 inch) diameter ITC-ER cable with unterminated leads; pressured EX60 jacket (type ST2 per IEC 60092-360:2014), paper separator, filler as needed, compliant with 60332-3-22; UL TC-ERDB, ITC, PLTC, ERDB, IEEE 1580-2010, ABS; or a 400 mm ITC-ER cable with a 3-pin 7/8 Minifast-style male quick disconnect (QD)

Quick disconnect models (end in QP) require a mating cordset and are not approved for use in locations where dust or fibers creates a hazard: Class II, Class III, and Zone 22. Select the 2 m unterminated cable option for locations where Class II or Zone 22 certifications is required. Connections in the hazardous location must be secured by a locking device (provided with the product).

Construction

Clear anodized aluminum housing; UV stabilized polycarbonate outer housing

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

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Approvals

Models with 2 m ITC-ER cable and unterminated tinned leads:	Models with 400 mm ITC-ER cable and a 3-pin 7/8 Minifast male quick disconnect (QD)
NEC and CEC: –40°C ≤ T_a ≤ +60°C Class I Zone 2 IIC T4 / Class I Div 2 Groups ABCD T4 Class II Zone 22 IIIC T100°C / Class II Div 2 Groups FG T5 Class III Div 1 and Div 2 T5 ATEX/UKCA/IECEX: –40°C ≤ T_a ≤ +50°C Ex II 3 G Ex ec IIC T4 Gc (Group IIC Zone 2) Ex II 3 D Ex tc IIIC T85°C Dc (Group IIIC Zone 22)	NEC and CEC: –40°C ≤ Ta ≤ +60°C Class I Zone 2 IIC T4 / Class I Div 2 Groups ABCD T4 ATEX/UKCA/IECEX: –40°C ≤ Ta ≤ +50°C Ex II 3 G Ex ec IIC T4 Gc (Group IIC Zone 2)

c UL us LISTED
LUMINAIRE FOR HAZARDOUS LOCATIONS
E467619

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DEMKO 18 ATEX 2122X
IECEx UL 18.0115X

IEC 60079-0:2017
IEC 60079-7:2017
IEC 60079-31:2013

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

UKCA Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

Light Characteristics – Single Color Models

Cool White Efficacy: 118 lumens/Watt typical at 24 V DC at 25 °C (77 °F)

CRI: 85, typical

Color	Dominant Wavelength (nm) or Color Temperature	Lighted Length Lumens (Typical at 25 °C)							
		145 mm	285 mm	430 mm	570 mm	710 mm	850 mm	990 mm	1130 mm
Cool White	6500 K (+ 600 K/- 500 K)	425	850	1275	1700	2125	2550	2975	3400
Warm White	3000 K (+ 250 K/- 150 K)	425	850	1275	1700	2125	2550	2975	3400
Green	525 nm	205	410	615	820	1025	1230	1435	1640
Red	618 nm	65	130	195	260	325	390	455	520
Yellow	590 nm	55	110	165	220	275	330	385	440
Blue	460 nm	45	90	135	180	225	270	315	360

Light Characteristics – Dual Color Models

Daylight White Efficacy: 76 lumens/Watt typical at 24 V DC at 25 °C (77 °F)

CRI: 83, typical

Color	Dominant Wavelength (nm) or Color Temperature	Lighted Length Lumens (Typical at 25 °C)							
		145 mm	285 mm	430 mm	570 mm	710 mm	850 mm	990 mm	1130 mm
Daylight White	5000 K (± 300 K)	275	550	825	1100	1375	1650	1925	2200
Green	525 nm	175	350	525	700	875	1050	1225	1400
Red	625 nm	115	230	345	460	575	690	805	920
Yellow	590 nm	85	170	255	340	425	510	595	680
Blue	470 nm	65	130	195	260	325	390	455	520

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.

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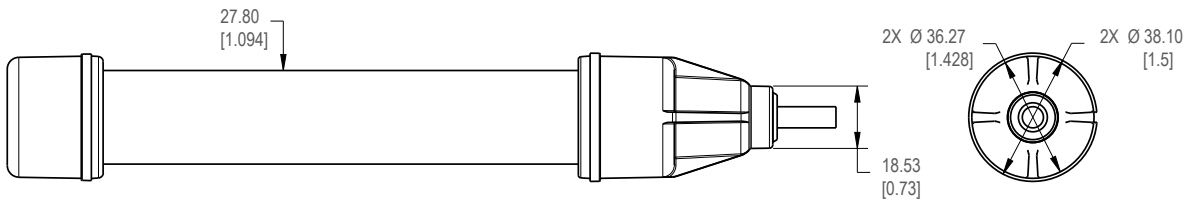
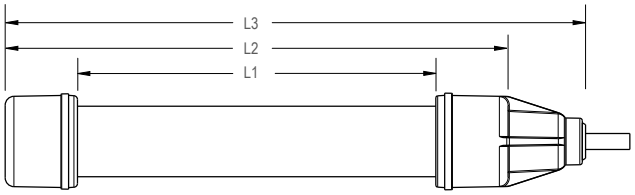
Dimensions





Model	L1	L2	L3
HLS27..0145..	141 mm (5.6 in)	198 mm (7.8 in)	229 mm (9 in)
HLS27..0285..	282 mm (11.1 in)	339 mm (13.4 in)	370 mm (14.6 in)
HLS27..0430..	423 mm (16.7 in)	480 mm (18.9 in)	511 mm (20.1 in)
HLS27..0570..	564 mm (22.2 in)	621 mm (24.5 in)	652 mm (25.7 in)
HLS27..0710..	705 mm (27.8 in)	762 mm (30 in)	794 mm (31.2 in)
HLS27..0850..	846 mm (33.3 in)	903 mm (35.6 in)	934 mm (36.8 in)
HLS27..0990..	987 mm (38.9 in)	1044 mm (41.1 in)	1075 mm (42.3 in)
HLS27..1130..	1128 mm (44.4 in)	1185 mm (46.7 in)	1216 mm (47.9 in)

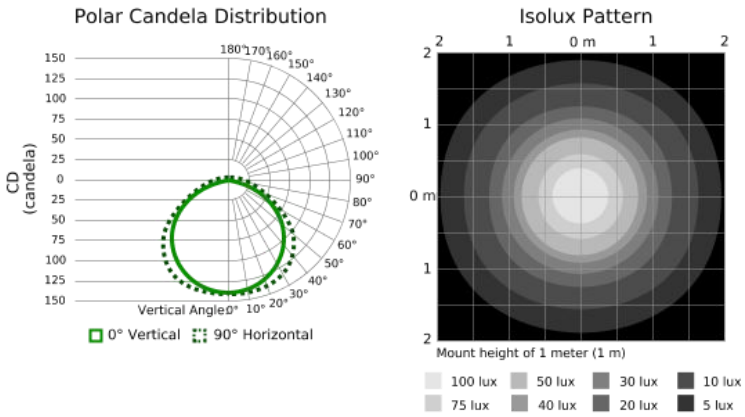
Performance

The optical data shown below is for standard single color, cool white only. To calculate lux and candela values for other colors in both the single and dual color versions, multiply the values shown on the charts by the following factors.

Color for Single Color Models	Multiplier
Warm white	1
Green	0.482
Red	0.153
Yellow	0.129
Blue	0.106

Color for Dual Color Models	Multiplier
Daylight white	0.647
Green	0.412
Red	0.271
Yellow	0.200
Blue	0.153

145 mm Models



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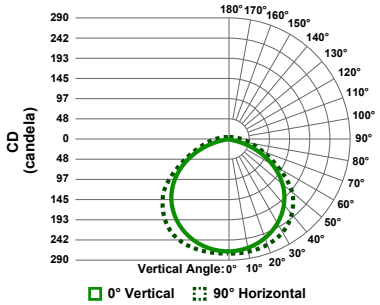
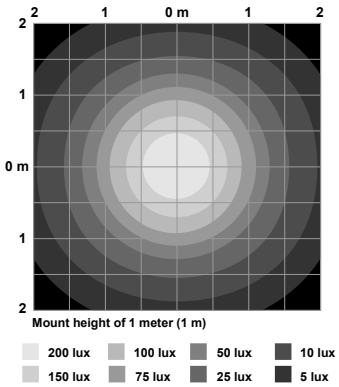
285 mm Models

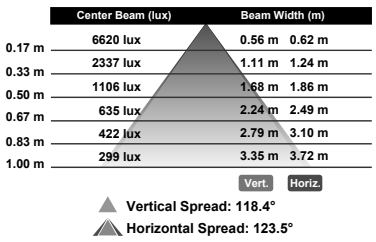
Polar Candela Distribution



Isolux Pattern

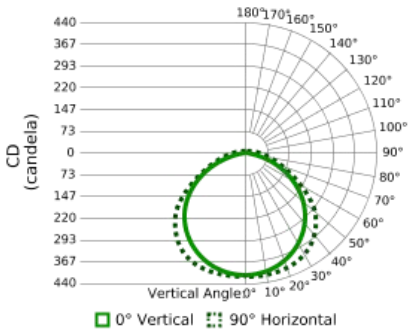


Illuminance at a Distance

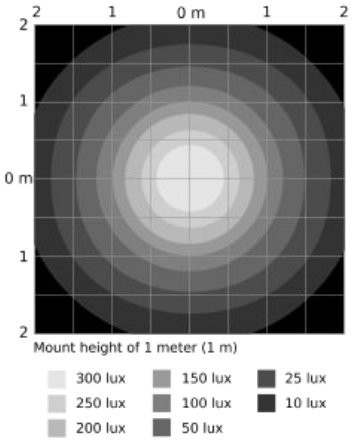


430 mm Models

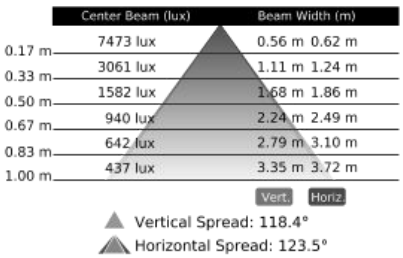
Polar Candela Distribution



Isolux Pattern

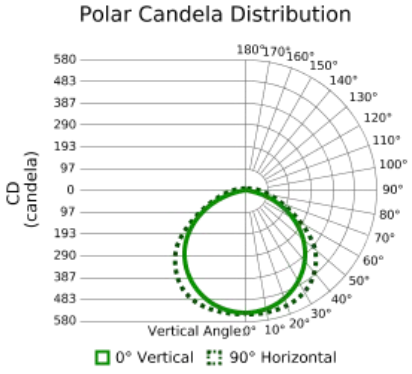


Illuminance at a Distance

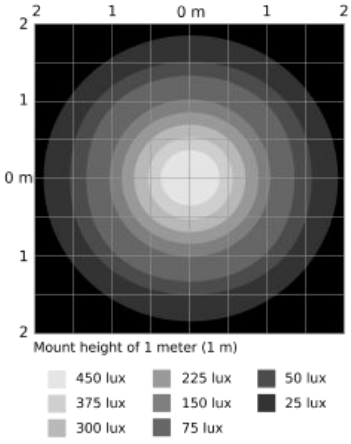


570 mm Models

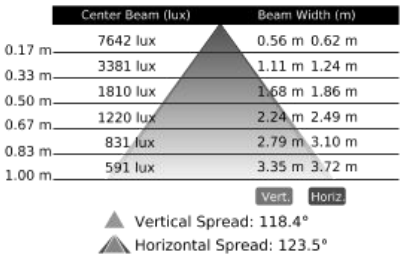
Polar Candela Distribution



Isolux Pattern



Illuminance at a Distance



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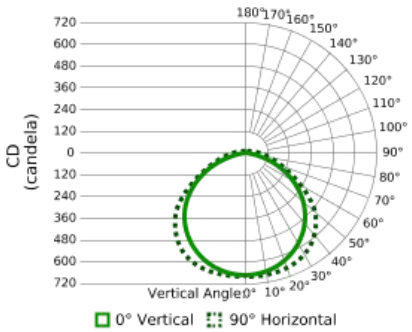
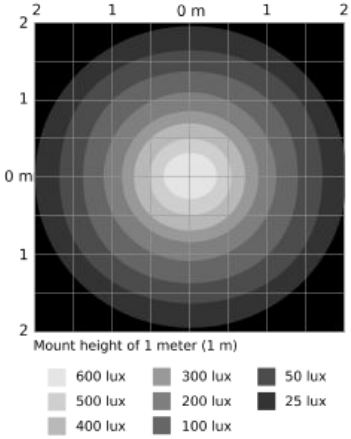
710 mm Models

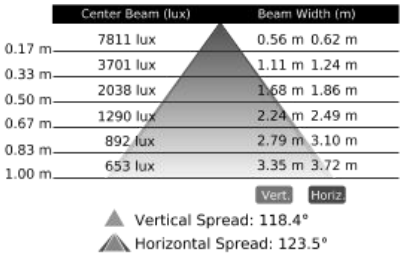
Polar Candela Distribution



Isolux Pattern

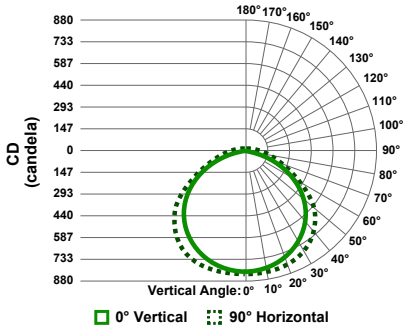


Illuminance at a Distance

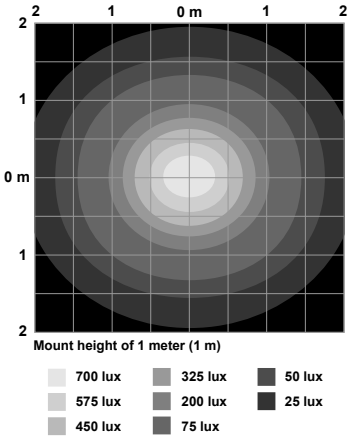


850 mm Models

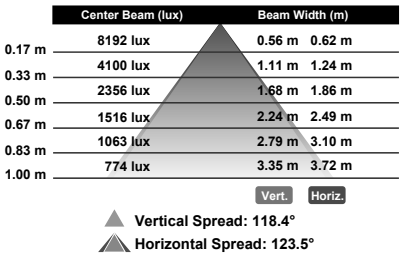
Polar Candela Distribution



Isolux Pattern

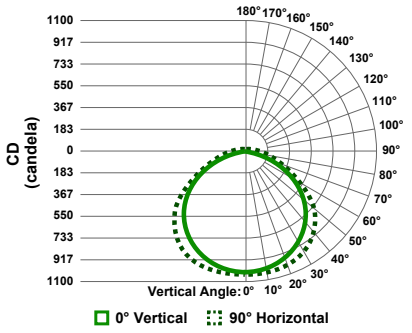


Illuminance at a Distance

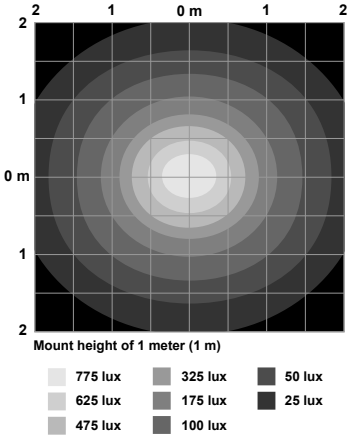


990 mm Models

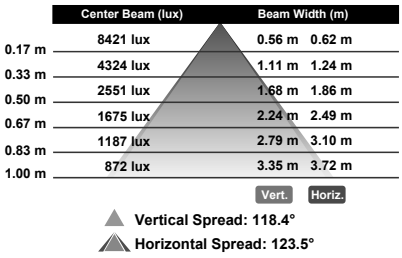
Polar Candela Distribution



Isolux Pattern



Illuminance at a Distance



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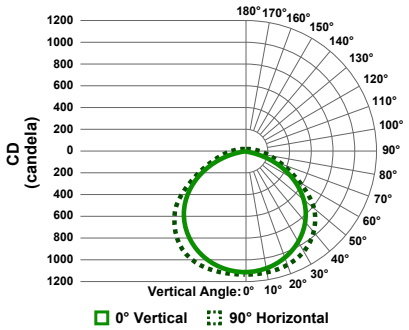
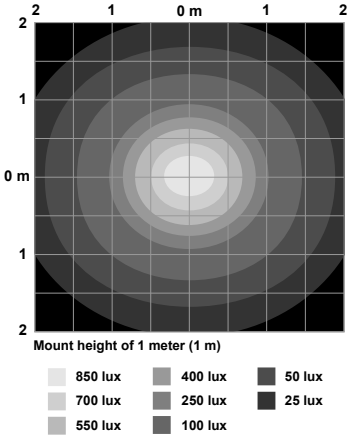
1130 mm Models

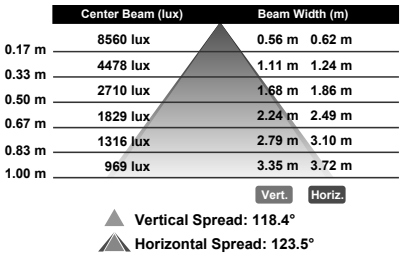
Polar Candela Distribution



Isolux Pattern



Illuminance at a Distance



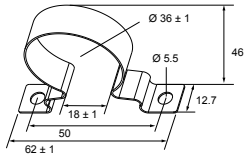
Accessories

Brackets

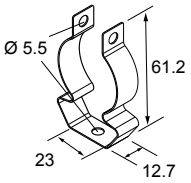
All measurements are listed in millimeters, unless noted otherwise. The measurements provided are subject to change.

The following brackets (LMBHLS27S, LMBHLS27O) can be used with the HLS27 Hazardous Location LED Strip Light.

LMBHLS27S
- Set of 2 brackets
- Impact absorbing
- 300 series stainless steel
- Clearance for M5 or #10 hardware

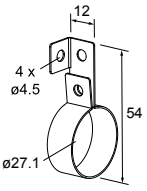


LMBHLS27O
- Set of 2 brackets
- Impact absorbing clamp
- 300 series stainless steel
- M5 stainless steel hardware included

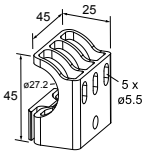


The following brackets (LMBWLS27H, LMBWLS27U) can be used with the HLS27 Hazardous Location LED Strip Light for North America applications, but will not meet the required specifications for ATEX/UKCA/IECEx.

LMBWLS27H
- 300 series stainless steel mounting brackets
- M4 stainless steel hardware included



LMBWLS27U
- Clear copolyester
- Clearance for M5 or #10 hardware
- Clamps securely around the light body



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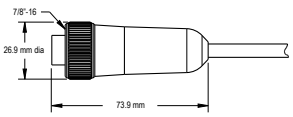
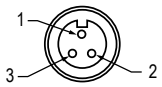
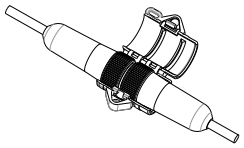
Cordsets

3-Pin Threaded 7/8 Minifast Cordsets with ITC-ER Cable Singled Ended					
Model	**Turck Part**	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
HLDMN-316	**P-X-RKVZ 32-1699XL-5M**	5 m	Straight		 1 = Blue (bu) 2 = Brown (bn) 3 = Black (bk)
HLDMN-330	**P-X-RKVZ 32-1699XL-9M**	9 m			

Model	Description	
HFDMN-LOCK	Locking device for the HLDMN cordsets, qty 1	
HFDMN-LOCK10	Locking device for the HLDMN cordsets, qty 10	

A locking device is included with every QP model. See Turck file number 100013548 for installation instructions.

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