

CDL-L

HAZARDOUS LOCATION LED LINEAR LUMINAIRE

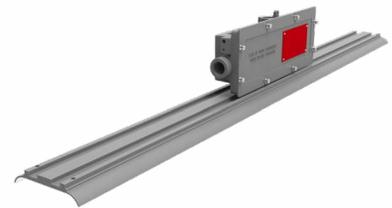
Class I, Division 2, Groups A, B, C, D

Class II, Division 1, Groups E, F, G

Class III

Non recessed Marine luminaires, outside type (salt water)

The CDL-L Hazardous Location LED linear luminaire is designed for installations where moisture, dirt, dust, corrosion and vibration may be present. The CDL-L is also NEC/CEC certified to be used in hazardous environments where there is presence of flammable vapors or gases.



FEATURES AND SPECIFICATIONS

• Construction

Housing

Rugged and resilient housing made of a copper-free aluminum, corrosion resistant casting, with separated driver compartment for improved thermal management. All exposed fasteners are quality stainless steel as well as high temperature quality silicone gasketing. Available in a grey casting color and a superior electrostatic powder coating.

Temperature ratings

Based on the surface temperature of the fixture;

- Class I, Division 2 is rated T3C (will not exceed 160°C)
- Class II, Division 1 & Class III are rated T4A (will not exceed 120°C)

Ambient operating temperature

-40°C to +50°C

Ambient operating humidity

5% ~ 95% RH

Optics

Comes standard with a thermal shock and impact resistant polycarbonate lens and is available in a clear finish with a 110° beam angle. A diffuse finish is also available in option.

• Electrical

Available in either A1 (40 W) or A2 (80 W) configurations with a lumen per watt ratio of 120 lm/W to 152 lm/W. Driver input voltage is 120-277 V AC 50/60 Hz, or 347-480 V AC 50/60 Hz. All drivers are non-dimmable and have 4 kV integrated transient surge protection with a power factor > 0.95. Durable high LUXEON LEDs with solder-less board connections for shock and vibration resistance. The CDL-L is offered in either 3 000 K, 4 000 K and 5 000 K, with a color rendering index (CRI) > 70.

• Compliances

- Meets requirements of ICES-005 issue 4 for class A products
- 5G vibration resistant in compliance with IEC60598-1 standard, CL-4.20
- IP66
- IK08
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- Class III
- UL1598A
- UL1598
- UL8750
- CSA C22.2 No.137
- CSA C22.2 No.250, No.250.13

OVERVIEW

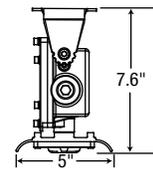
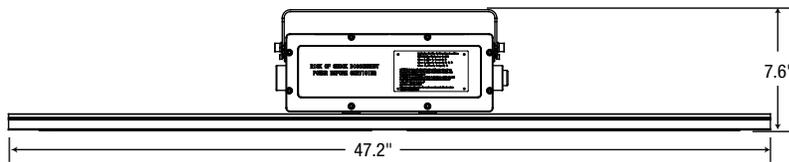
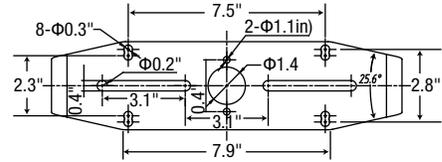
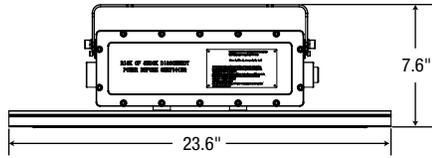
| | |
|-----------------------|---------------------|
| Light source | LED |
| Watts (W) | 40 - 80 |
| Lumen output (lm) | 4 850 - 12 231 |
| Efficiency (lm/W) | 120 - 153 |
| Color temperature (K) | 3 000, 4 000, 5 000 |
| CRI | >70 |



Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

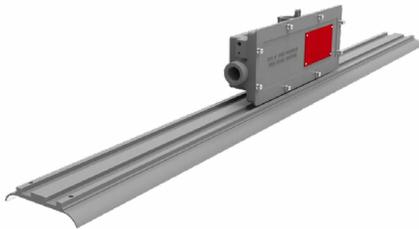
DIMENSIONS

| Part # | Net weight (lbs) | Dimensions (LxWxH) |
|---------|------------------|--------------------|
| CDL-LS1 | 12.1 | 23.6 x 5 x 7.6" |
| CDL-LS2 | 16.7 | 47.2 x 5 x 7.6" |



MOUNTING

PENDANT (STANDARD)



ACCESSORIES REQUIRED FOR OPTIONAL MOUNTING

CEILING MOUNT

BKT761-LN



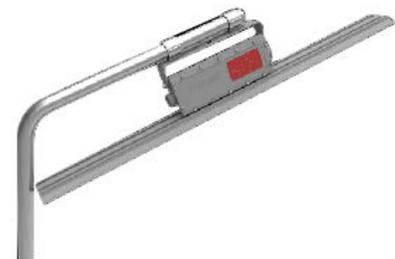
WALL MOUNT

BKT761-LN



POLE MOUNT

BKT775 + BKT761-LN



Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

QUICK SHIP AND TECHNICAL SPECIFICATION TABLE  ¹

| Part number | DLC unique ID | Watts (W) | Color temp. (K) ² | Lumen output (lm) ³ | Efficiency (lm/W) | CRI | Life L70 (hrs) ⁴ | Tested hours LM-80 (hrs) ⁴ | LED current (mA) | Power factor | THD (%) | B.U.G. rating | Beam angle (°) | Case qty (master) |
|-------------------|---------------|-----------|------------------------------|--------------------------------|-------------------|-----|-----------------------------|---------------------------------------|------------------|--------------|---------|---------------|----------------|-------------------|
| 120-277 V | | | | | | | | | | | | | | |
| CDL-LS1-W-C/40K-T | N/A | 40 | 4 000 | 6 041 | 151 | 70 | >54 000 | 9 000 | 84 | 1.00 | 16 | B4-U0-G1 | 110 | 1 |
| CDL-LS2-W-C/40K-T | N/A | 80 | 4 000 | 12 231 | 153 | 70 | >54 000 | 9 000 | 84 | 0.99 | 9 | B4-U0-G1 | 110 | 1 |
| CDL-LS1-W-C/50K-T | PLSH9Y90XVPQ | 40 | 5 000 | 5 480 | 135 | 70 | >54 000 | 9 000 | 84 | 1.00 | 16 | B4-U0-G1 | 110 | 1 |
| CDL-LS2-W-C/50K-T | PLZZSEDSND5V | 80 | 5 000 | 10 960 | 137 | 70 | >54 000 | 9 000 | 84 | 0.99 | 9 | B4-U0-G1 | 110 | 1 |
| 347-480 V | | | | | | | | | | | | | | |
| CDL-LS1-H-C/40K-T | N/A | 40 | 4 000 | 5 984 | 150 | 70 | >54 000 | 9 000 | 84 | 0.89 | 16 | B4-U0-G1 | 110 | 1 |
| CDL-LS2-H-C/40K-T | N/A | 80 | 4 000 | 11 761 | 147 | 70 | >54 000 | 9 000 | 84 | 0.89 | 9 | B4-U0-G1 | 110 | 1 |
| CDL-LS1-H-C/50K-T | PLVCFPEVWADM | 40 | 5 000 | 5 480 | 132 | 70 | >54 000 | 9 000 | 84 | 0.89 | 16 | B4-U0-G1 | 110 | 1 |
| CDL-LS2-H-C/50K-T | PLUJ84YPCZY | 80 | 5 000 | 10 960 | 137 | 70 | >54 000 | 9 000 | 84 | 0.89 | 9 | B4-U0-G1 | 110 | 1 |

¹ **QUICK SHIP:** Product availability is subject to change without notice. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

² Typical color temperature range: +/- 5 %.

³ Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

⁴ Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

ORDERING GUIDE

| Series | Lamp type | Lumen package ¹ | Volts (V) | Hazloc | Color temp. (K) | Lens option |
|--------|-----------|---|----------------------------|---|---|--|
| CDL | L - LED | S1 - Refer to the S2 - technical specifications table for details | W - 120-277 H - 347-480 | C - Class I Division 2, Class II Division 1 Class III | 30K - 3 000 40K - 4 000 50K - 5 000 | D - Diffuse polycarbonate lens T - Transparent polycarbonate lens |

¹ S1-40 W is a 2 ft fixture; S2-80 W is a 4 ft fixture.

ACCESSORIES (order separately)

| Part number | Type |
|-------------|---|
| HAR1055 | Stainless steel safety cable kit |
| BKT775 | Stanchion mount pipe clamp ¹ |
| BKT761-LN | U-bracket |

¹ Include 2 pipes per box.



BKT775
Stanchion mount pipe clamp



BKT761-LN
U-bracket



HAR1055
Stainless steel safety cable kit

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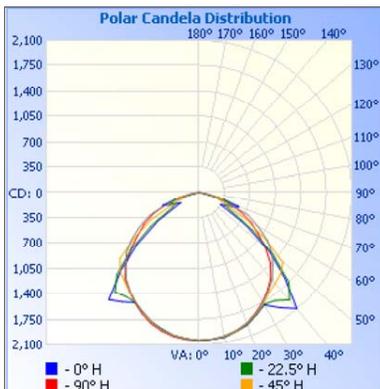
TECHNICAL SPECIFICATION TABLE

| Lumen package | Lens type | Volts (VAC) | LED current (mA) | # of LEDs | Watts (W) | CRI | Lumens output (lm) | Efficiency (lm/w) | Life L70 (hrs) | Tested hours LM-80 (hrs) | Power factor | THD (%) | B.U.G. Rating |
|----------------|-------------|-------------|------------------|-----------|-----------|-----|--------------------|-------------------|----------------|--------------------------|--------------|---------|---------------|
| 3 000 K | | | | | | | | | | | | | |
| A1 | Transparent | 120-277 | 84 | 18 | 40 | 70 | 6 061 | 152 | 54 000 | 9 000 | 1.00 | 16 | B4-U0-G1 |
| | | 347-480 | 84 | 18 | 40 | 70 | 6 061 | 152 | 54 000 | 9 000 | 0.89 | 16 | B4-U0-G1 |
| A2 | | 120-277 | 84 | 36 | 80 | 70 | 11 598 | 145 | 54 000 | 9 000 | 0.99 | 9 | B4-U0-G1 |
| | | 347-480 | 84 | 36 | 80 | 70 | 11 598 | 145 | 54 000 | 9 000 | 0.89 | 9 | B4-U0-G1 |
| A1 | Diffuse | 120-277 | 84 | 18 | 40 | 70 | 5 210 | 130 | 54 000 | 9 000 | 1.00 | 16 | B4-U0-G1 |
| | | 347-480 | 84 | 18 | 40 | 70 | 5 210 | 130 | 54 000 | 9 000 | 0.89 | 16 | B4-U0-G1 |
| A2 | | 120-277 | 84 | 36 | 80 | 70 | 9 847 | 123 | 54 000 | 9 000 | 0.99 | 9 | B4-U0-G1 |
| | | 347-480 | 84 | 36 | 80 | 70 | 9 847 | 123 | 54 000 | 9 000 | 0.89 | 9 | B4-U0-G1 |
| 4 000 K | | | | | | | | | | | | | |
| A1 | Diffuse | 120-277 | 84 | 18 | 40 | 70 | 4 850 | 121 | 54 000 | 9 000 | 1.00 | 16 | B4-U0-G1 |
| | | 347-480 | 84 | 18 | 40 | 70 | 4 850 | 121 | 54 000 | 9 000 | 0.89 | 16 | B4-U0-G1 |
| A2 | | 120-277 | 84 | 36 | 80 | 70 | 9 595 | 120 | 54 000 | 9 000 | 0.99 | 9 | B4-U0-G1 |
| | | 347-480 | 84 | 36 | 80 | 70 | 9 595 | 120 | 54 000 | 9 000 | 0.89 | 9 | B4-U0-G1 |
| 5 000 K | | | | | | | | | | | | | |
| A1 | Diffuse | 120-277 | 84 | 18 | 40 | 70 | 5 270 | 132 | 54 000 | 9 000 | 1.00 | 16 | B4-U0-G1 |
| | | 347-480 | 84 | 18 | 40 | 70 | 5 270 | 132 | 54 000 | 9 000 | 0.89 | 16 | B4-U0-G1 |
| A2 | | 120-277 | 84 | 36 | 80 | 70 | 9 931 | 124 | 54 000 | 9 000 | 0.99 | 9 | B4-U0-G1 |
| | | 347-480 | 84 | 36 | 80 | 70 | 9 931 | 124 | 54 000 | 9 000 | 0.89 | 9 | B4-U0-G1 |

PHOTOMETRIC DATA¹

CDL-LS1-W-C/40K-T • 6 041 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|-------|---------|-----------|
| 0-30 | 1 598.1 | 28.5% |
| 0-40 | 2 682.6 | 47.9% |
| 0-60 | 4 750.2 | 84.7% |
| 60-90 | 855.7 | 15.3% |
| 0-90 | 5 605.9 | 100% |

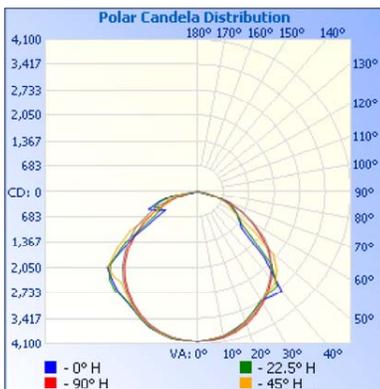
Illuminance at a distance

| Center beam fc | | Beam width | |
|----------------|---------|------------|-------|
| 1.7' | 707 fc | 4.3' | 3.4' |
| 3.3' | 188 fc | 8.3' | 6.6' |
| 5.0' | 81.7 fc | 12.6' | 10.0' |
| 6.7' | 45.5 fc | 16.9' | 13.5' |
| 8.3' | 29.6 fc | 20.9' | 16.7' |
| 10.0' | 20.4 fc | 25.2' | 20.1' |

Vert. spread: 103°
Horiz. spread: 90.3°

CDL-LS2-W-C/40K-T • 12 231 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|-------|-----------|-----------|
| 0-30 | 3 160.4 | 27.8% |
| 0-40 | 5 263.3 | 46.4% |
| 0-60 | 9 356.8 | 82.4% |
| 60-90 | 1 995.3 | 17.6% |
| 0-90 | 11 352.10 | 100% |

Illuminance at a distance

| Center beam fc | | Beam width | |
|----------------|----------|------------|-------|
| 1.7' | 1 396 fc | 4.3' | 5.0' |
| 3.3' | 370 fc | 8.3' | 9.7' |
| 5.0' | 161 fc | 12.5' | 14.7' |
| 6.7' | 89.9 fc | 16.8' | 19.7' |
| 8.3' | 58.6 fc | 20.8' | 24.5' |
| 10.0' | 40.3 fc | 25.1' | 29.5' |

Vert. spread: 102.9°
Horiz. spread: 111.7°

¹ Complete IES files available on our website.

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