

## Series Spec Sheet

# CDHL2

## HAZARDOUS LOCATION LED LINEAR LUMINAIRE

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

Non recessed Marine luminaires, outside type (salt water)

The CDHL2 LED linears are specifically engineered for use in hazardous environments containing flammable vapors or gases. This series is designed for locations prone to vibrations, as well as NEMA 4X environments characterized by exposure to wind, water, snow, or high ambient temperatures.

### FEATURES AND SPECIFICATIONS

#### • Construction

##### Physical Characteristics

- Rugged and resilient housing made of a aluminum-alloy material available in a grey housing finish.
- All exposed fasteners are quality stainless steel.

##### Temperature ratings

Based on the surface temperature of the fixture:

- Class I, Division 2 is rated:
  - T4A (will not exceed 120 °C) for 40 W, 80 W (120-277 V) and 120 W models
  - T5 (will not exceed 100 °C) for 80 W (277-480 V) models

##### Ambient operating temperature

-40 °C to +65 °C

##### Ambient operating humidity

10 % to 90 % RH

##### Mounting types

Standard mounting type is pendant mount including a safety cable and this series offers the following accessories:

- Yoke
- Side surface mount
- Pole mount
- Chain mount
- Junction box

##### Lens/Optics

This series comes standard in a clear polycarbonate lens and has the option of a 80 degrees and 110 degrees beam angles.

#### • Performance data

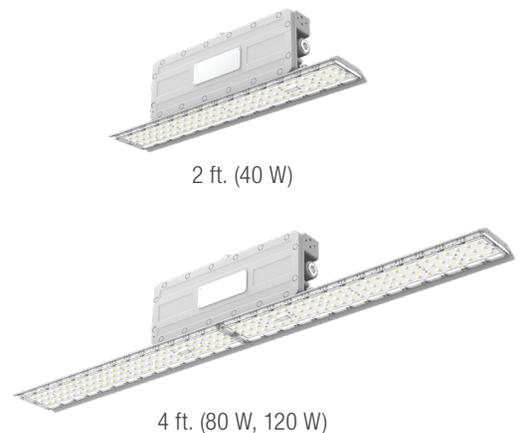
- Available in a 2 700 K, 3 000 K, 4 000 K, 5 000 K, 5 700 K and 6 500 K color temperatures
- 80+ CRI
- Estimated life L70 >54 000
- Electrical ratings: 120-277 V 50/60 Hz and 277-480 V 50/60 Hz for 80 W lumen package
- 0-10 V dimming standard
- Built-in DM 6 kV (line-line) and a CM 10 kV (line-earth)
- Power factor of ≥0.9
- THD of ≤20 %

#### • Suitable for zone ratings:

- Zone 2, Group IIC

#### • Compliances

- Meets requirements of ICES-005 issue 5 class A for use in commercial applications
- IP66
- IK09
- NEMA 4X
- 3G vibration resistant in compliance with ANSI/IEEE C136.31 standard for luminaire vibration
- UL 1598A
- UL 1598
- UL 8750
- UL 844
- CSA C22.2 No.137
- CSA C22.2 No.250, No.250.13



### OVERVIEW

Light source	LED
Watts (W)	40, 80, 120
Lumen output (lm)	6 529 - 19 253
Efficacy (lm/W)	156 - 165
Color temperature (K)	2 700, 3 000, 4 000, 5 000, 5 700, 6 500
CRI	80+

**QUICK SHIP AND TECHNICAL SPECIFICATION TABLE**

Order code	Model number	Watts	Volts	Color temps.	Lumen output	Efficacy	CRI	Life L70	Tested hours LM-80	Beam angle	B.U.G rating	LED current	Finish	Power factor	THD
		(W)	(V)	(K) <sup>1</sup>	(LM) <sup>2,3</sup>	(LM/W)		(hrs) <sup>4</sup>	(hrs) <sup>4</sup>	(°)		(MA)		(%)	
70280	CDHL2-S2W3-W-40-GY	80	120-277	4 000	12 871	159	80+	54 000	17 000	110	B3-U3-G1	1 590	Grey	≥0.9	≤20

<sup>1</sup> Typical color temperature range: +/- 5 %.

<sup>2</sup> Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

<sup>3</sup> Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

<sup>4</sup> Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

**ORDERING GUIDE**

Series	Lumen package (W)	Beam angle (°)	Volts (V)	Color temperature (K)	Casting color
CDHL2	S1 - 40 S3 - 120	MW2 - 80 W3 - 110	W - 120-277	27 - 2 700 30 - 3 000 40 - 4 000	GY - Grey
	S2 - 80		W - 120-277 K - 277-480	50 - 5 000 57 - 5 700 65 - 6 500	

**LUMEN SPECIFICATION TABLE**

Watts (W)	Beam angle (°)	Volts (V)	Fixture current (A)	4 000 K		CRI	Life L70 (hrs)	Power factor	THD (%)
				Lumen output (lm)	Efficacy (lm/W)				
40	80	120-277	0.45	6 529	159	>80	>54 000	≥0.9	≤20
80		120-277	0.9	13 120	161	>80	>54 000	≥0.9	≤20
80		277-480	0.32	13 324	165	>80	>54 000	≥0.9	≤20
120		120-277	1.3	19 253	159	>80	>54 000	≥0.9	≤20
40	110	120-277	0.45	6 336	156	>80	>54 000	≥0.9	≤20
80		120-277	0.9	12 871	159	>80	>54 000	≥0.9	≤20
80		277-480	0.32	13 155	160	>80	>54 000	≥0.9	≤20
120		120-277	1.3	18 880	156	>80	>54 000	≥0.9	≤20

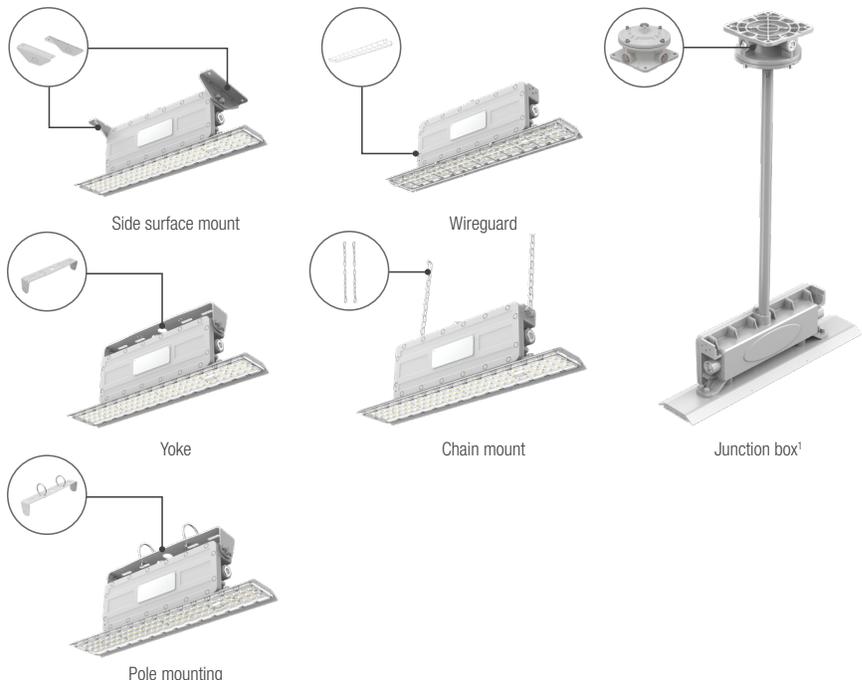
**QUICK SHIP ACCESSORIES**

Order code	Type
70300	Yoke mount
70302 <sup>1</sup>	Junction box

<sup>1</sup> Hazloc pipe and fittings not supplied.

**ACCESSORIES (order separately)**

Order code	Type
70392	Side surface mount
70393	Wireguard for 40 W models
70394	Wireguard for 80 W and 120 W models
70395	Pole mounting
70396	Chain mount



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.

**COMPATIBLE DIMMERS<sup>1</sup>**

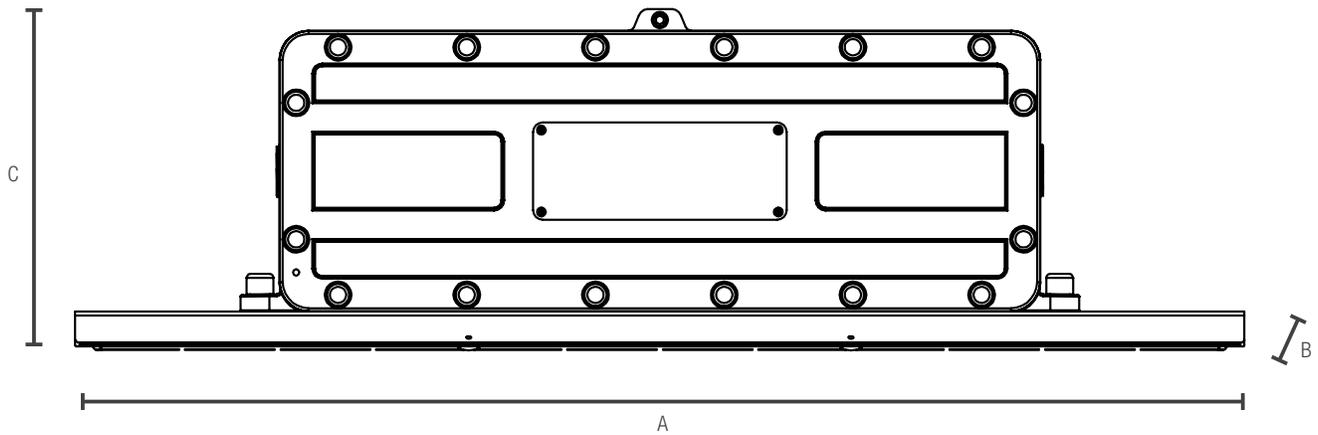
Brand	Model
Leviton	DS710
Lutron	NTSTV-DV, NFTV, DVSTV

Dimming range: 0%-100%

<sup>1</sup> This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. Stanpro recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

**DIMENSIONS AND WEIGHTS**

**PENDANT MOUNT**



	40 W	80 W 120 W
A in. (cm)	23 5/8 (60)	47 1/4 (120)
B in. (cm)	5 (12.7)	5 (12.7)
C in. (cm)	6 7/8 (17.50)	6 7/8 (17.50)
Net weight (lbs)	14.99	19.84

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.