

## CDF-L

### HAZARDOUS LOCATION FLOOD LUMINAIRE

Class I, Division 1, Groups C, D

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

Class II, Division 2, Groups F, G

Class III

Non recessed Marine luminaires, outside type (salt water)

The CDF-L Hazardous Location LED flood luminaire is designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or in NEMA 3 and 4X locations where wind, water, snow or high ambient can be expected. The CDF-L is also NEC/CEC certified to be used in hazardous environments where there is presence of flammable vapours or gases and combustible dusts.

#### 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, Class II, Division 2 & Class III are rated T4A (will not exceed 120°C)
- Class I, Division 1 is rated T6 (will not exceed 85°C)

###### Ambient operating temperature

-40°C to +60°C

###### Ambient operating humidity

5% ~ 95% RH

###### Mounting options

The CDF-L series comes standard with a pendant mount however in option pole, ceiling and wall mounting are available.

###### Optics

Comes standard with a thermal shock and impact resistant tempered glass lens and is available in a clear finish with a 120° beam angle. A 25° and a 60° beam angles are also available in option.

##### • Electrical

Available in either **S1** (80 W), **S2** (100 W) or **S3** (150 W) packages with a lumen per watt ratio of 95 to 130 lm/W. Driver allows input voltage from 120-277 V 50/60 Hz or 347-480 V 50/60 Hz. All drivers are non-dimmable and have 4 kV integrated transient surge protection with a power factor >0.95. Durable high powered OSRAM LEDs with solder-less board connections for shock and vibration resistance. The CDF-L is offered in either 3 000, 4 000 or 5 000 K color temperatures with a color rendering index (CRI) >70.

##### • NEC/CEC Standards

###### NEC500/CEC Section 18: Existing plants

- Hazloc A :
  - Class I, Division 1, Groups C, D
  - Class III
- Hazloc D :
  - Class I, Division 2, Groups A, B, C, D
  - Class II, Division 2, Groups F, G
  - Class III

###### NEC505/CEC Section 18 Zones: New plants

- Hazloc A :
  - Class I, Zone 1, Group IIB
  - Class I, Zone 2, Group IIC
  - Zone 22
- Hazloc D :
  - Class I, Zone 2, Group IIC
  - Zone 22

##### • 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
- UL 1598A
- UL 1598
- UL 8750
- CSA C22.2 No.137
- CSA C22.2 No.30-M1986
- CSA C22.2 No.25-1966
- CSA C22.2 No.250.0
- CSA C22.2 No.250.13



#### OVERVIEW

Light source	LED
Watts (W)	80 - 150
Lumen output (lm)	7 862 - 19 500
Efficacy (lm/W)	95 - 130
Color temperature (K)	3 000, 4 000, 5 000
CRI	70
Weight (lbs)	33.5 - 34.2



quick ship



LED fixture



wet location



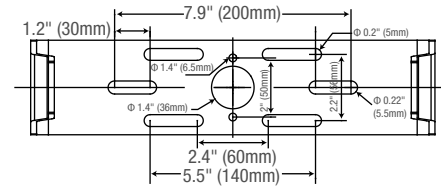
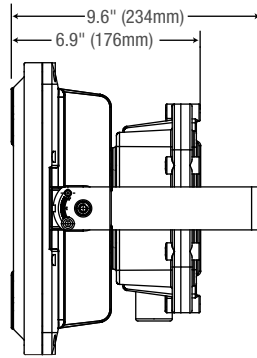
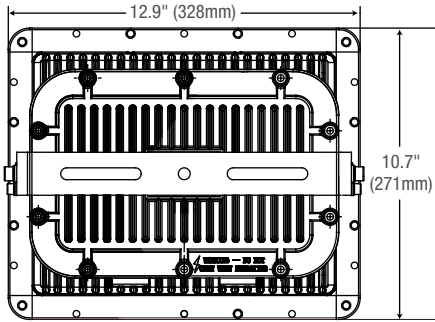
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**DIMENSIONS**



**MOUNTING**

PENDANT (standard)



**ACCESSORIES REQUIRED FOR OPTIONAL MOUNTING**

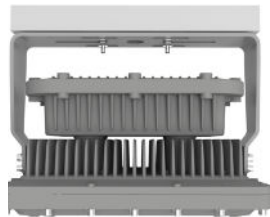
**POLE MOUNT**

BKT761-FL + BKT763



**CEILING MOUNT**

BKT761-FL



**WALL MOUNT**

BKT761-FL



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**  <sup>1</sup>

Part number	Watts (W)	Color temp. (K) <sup>2</sup>	Lumen output (lm) <sup>3</sup>	Efficacy (lm/W)	CRI	Life L70 (hrs) <sup>4</sup>	Tested hours LM-80 (hrs) <sup>4</sup>	LED current (mA)	Power factor	THD (%)	BUG	Beam angle (°)	Case qty (master)
<b>120-277 V</b>													
CDF-LS1-W-D/4K120T	80	4 000	10 059	126	70	>60 000	10 000	525	0.99	17	B4-U0-G1	120	1
CDF-LS2-W-D/4K120T	100	4 000	12 339	123	70	>60 000	10 000	525	0.99	15	B4-U0-G1	120	1
CDF-LS3-W-D/4K120T	150	4 000	18 122	121	70	>60 000	10 000	480	1.00	12	B4-U0-G1	120	1
CDF-LS1-W-D/5K120T	80	5 000	10 400	130	70	>60 000	10 000	525	0.99	17	B4-U0-G1	120	1
CDF-LS2-W-D/5K120T	100	5 000	13 000	130	70	>60 000	10 000	525	0.99	15	B4-U0-G1	120	1
CDF-LS3-W-D/5K120T	150	5 000	19 500	130	70	>60 000	10 000	480	1.00	12	B4-U0-G1	120	1
<b>347-480 V</b>													
CDF-LS1-H-D/4K120T	80	4 000	9 979	125	70	>60 000	10 000	525	0.90	10	B4-U0-G1	120	1
CDF-LS2-H-D/4K120T	100	4 000	11 758	118	70	>60 000	10 000	525	0.94	8	B4-U0-G1	120	1
CDF-LS3-H-D/4K120T	150	4 000	17 718	118	70	>60 000	10 000	480	0.93	11	B4-U0-G1	120	1
CDF-LS1-H-D/5K120T	80	5 000	10 400	130	70	>60 000	10 000	525	0.90	10	B4-U0-G1	120	1
CDF-LS2-H-D/5K120T	100	5 000	13 000	130	70	>60 000	10 000	525	0.94	8	B4-U0-G1	120	1
CDF-LS3-H-D/5K120T	150	5 000	19 500	130	70	>60 000	10 000	480	0.93	11	B4-U0-G1	120	1

<sup>1</sup> **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.

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

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

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

**ORDERING GUIDE**

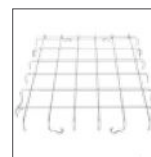
Series	Lamp type	Lumen package	Volts (V)	Hazloc	Color temp. (K)	Beam angle (°)	Lens option
CDF	L - LED	S1- Refer to lumen S2 - chart table S3 - for details	W - 120-277 H - 347-480	A - Class I Division 1 Class III D - Class I Division 2 Class II Division 2 Class III	3K - 3 000 4K - 4 000 5K - 5 000	25 - 25 60 - 60 120 - 120	T - Transparent tempered glass

**ACCESSORIES (order separately)**

Part number	Type
BKT763	Pole type stanchion NPT 2-3/8"
WGD068	Stainless steel wireguard
HAR1042	Stainless steel safety cable kit
BKT761-FL	U bracket



**BKT763**  
Pole type stanchion



**WGD068**  
Stainless steel wireguard



**HAR1042**  
Stainless steel safety cable kit



**BKT761-FL**  
U bracket

**TECHNICAL SPECIFICATION TABLE**

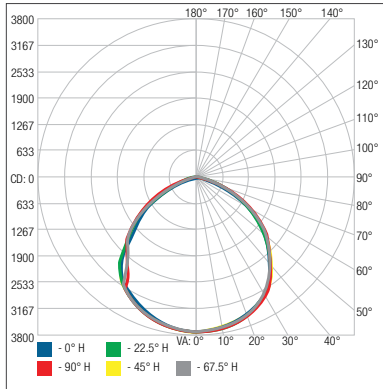
Lumen package	Volts (V)	Transparent Lens		Diffused Lens						CRI	Life L70 (hrs)	Tested hours LM-80 (hrs)	Power factor	THD (%)
		3000 K		3000 K		4 000 K		5 000 K						
		Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)	Lumen (lm)	Efficacy (lm/W)					
S1	120-277	9787	122	7862	98	7910	99	8280	104	70	>60 000	10 000	0.99	17
	347-480	9787	122	7862	98	7910	99	8280	104	70	>60 000	10 000	0.90	10
S2	120-277	11 757	118	9508	95	9596	96	10 014	100	70	>60 000	10 000	0.99	15
	347-480	11 757	118	9508	95	9596	96	10 014	100	70	>60 000	10 000	0.94	8
S3	120-277	18 179	121	14 661	98	14 829	99	14 892	99	70	>60 000	10 000	0.99	12
	347-480	18 179	121	14 661	98	14 829	99	14 892	99	70	>60 000	10 000	0.93	11

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.

**PHOTOMETRIC DATA<sup>1</sup>**

**CDF-LS1-W-D/4K120T • 10 059 lm**

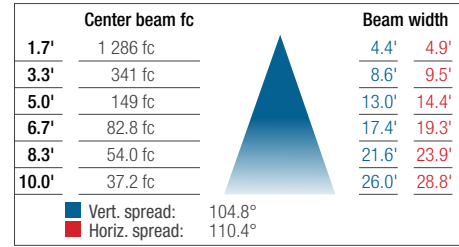
**Polar candela distribution**



**Zonal lumen summary**

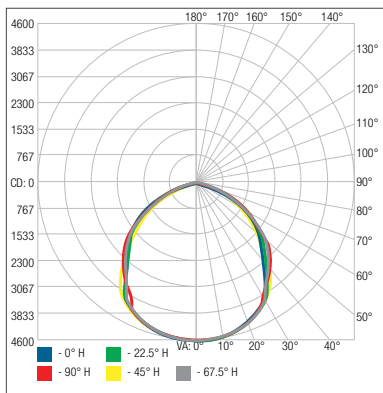
Zone	Lumens	% Fixture
0-30	2 944.5	30.3%
0-40	4 847.5	49.8%
0-60	8 308.2	85.4%
60-90	1 420.3	14.6%
0-90	9 728.5	100%

**Illuminance at a distance**



**CDF-LS2-W-D/4K120T • 12 339 lm**

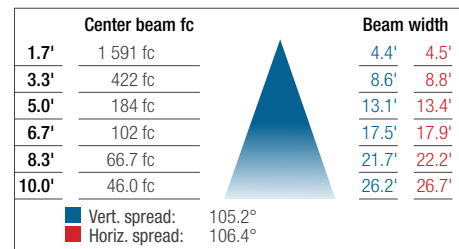
**Polar candela distribution**



**Zonal lumen summary**

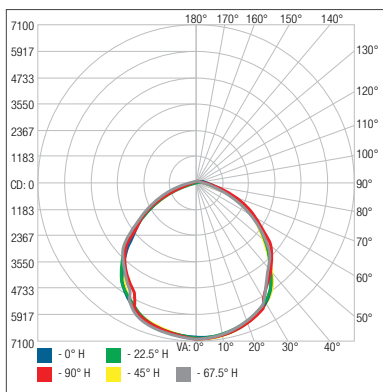
Zone	Lumens	% Fixture
0-30	3 628.6	30.8%
0-40	5 895.4	50.1%
0-60	10 016.5	85.1%
60-90	1 753.7	14.9%
0-90	11 770.2	100%

**Illuminance at a distance**



**CDF-LS3-W-D/4K120T • 18 122 lm**

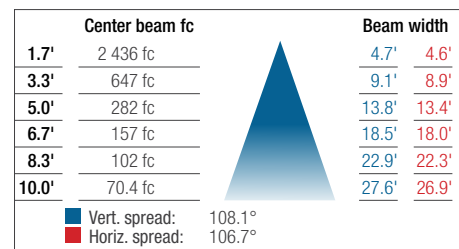
**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	5 560.2	30.3%
0-40	9 080.5	49.4%
0-60	15 598.5	84.9%
60-90	2 772.8	15.1%
0-90	18 371.4	100%

**Illuminance at a distance**



<sup>1</sup> Complete IES files available on our website.

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