

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 diffuse lens finish and a 25° and a 60° beam angles are also available in option.

OVERVIEW

Light source	LED
Watts (W)	80 - 150
Lumen output (lm)	7 862 - 19 500
Efficiency (lm/W)	95 - 130
Color temperature (K)	3 000, 4 000, 5 000
CRI	33.5 - 34.2
Weight (lbs)	1x4: 11.5, 2x2: 11, 2x4: 20

Electrical

Available in either **S1** (80 W), **S2** (100 W) or **S3** (150 W) packages with a lumen per watt ratio of 95 lm/W to 130 lm/W. Driver allows input voltage from 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 powered OSRAM LEDs with solder-less board connections for shock and vibration resistance. The CDF-L is offered in either 3 000 K, 4 000 K or 5 000 K, color temperatures 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

• NEC/CEC Standards

- 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

• UL Standards

- UL 1598A
- UL 1598
- UL 8750

• CSA Standards

- 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



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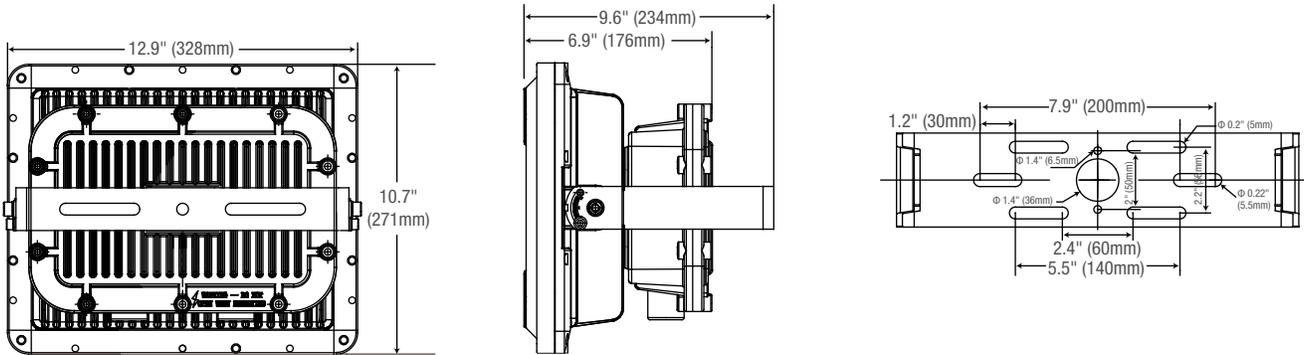
IK08



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

Model	Net weight (lbs)	Dimensions (LxWxH)
CDF-LS1	33.5	12.9 × 10.7 × 6.9 in
CDF-LS2	33.7	
CDF-LS3	34.2	



MOUNTING

PENDANT (standard)



ACCESSORIES REQUIRED FOR OPTIONAL MOUNTING

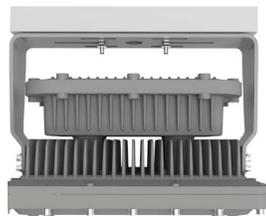
POLE MOUNT

BKT761-FL + BKT763



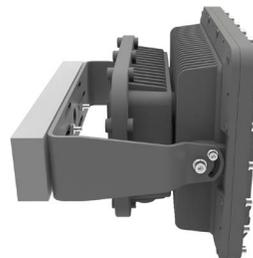
CEILING MOUNT

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

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 (%)	BUG	Beam angle (°)	Case qty (master)
120-277 V														
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	PL4BXFYSZ3V7	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	PLLYWND1YSFE	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	PLL4DFZFZ868	150	5 000	19 500	130	70	>60 000	10 000	480	1.00	12	B4-U0-G1	120	1
347-480 V														
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	PLHLSH31B1KQ	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	PLIUN056Y7F6	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	PLYNB41BYCUT	150	5 000	19 500	130	70	>60 000	10 000	480	0.93	11	B4-U0-G1	120	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

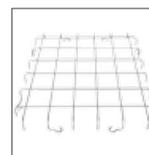
Series	Lamp type	Lumen package	Volts (V)	Hazloc	Color temp. (K)	Beam angle (°)	Lens option
CDF	L - LED	S1 - Refer to lumen S2 - chart table S3 - for details	W - 120-277 H - 347-480	A - Class I Division 1 Class III D - Class I Division 2 Class II Division 2 Class III	3K - 3 000 4K - 4 000 5K - 5 000	25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

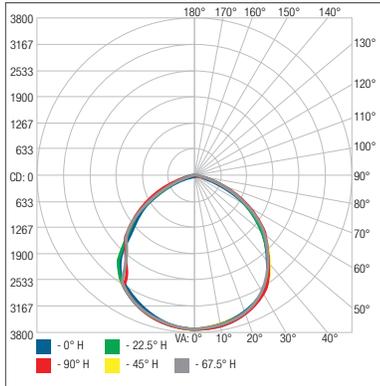
Lumen package	Volts (V)	Transparent Lens		Diffused Lens						CRI	Life L70 (hrs)	Tested hours LM-80 (hrs)	Power factor	THD (%)
		3000 K		3000 K		4 000 K		5 000 K						
		Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)	Lumen (lm)	Efficiency (lm/W)					
S1	120-277	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 DATA¹

CDF-LS1-W-D/4K120T • 10 059 lm

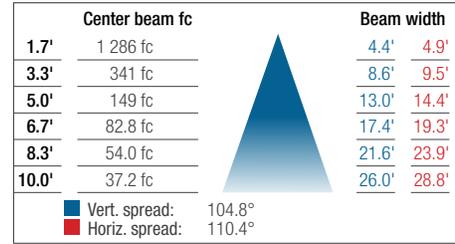
Polar candela distribution



Zonal lumen summary

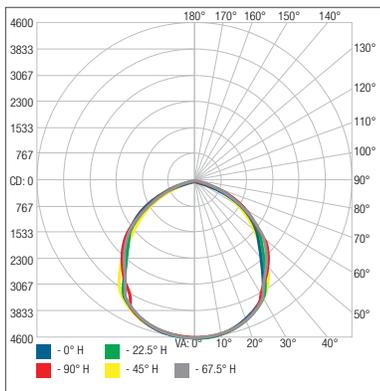
Zone	Lumens	% Fixture
0-30	2 944.5	30.3%
0-40	4 847.5	49.8%
0-60	8 308.2	85.4%
60-90	1 420.3	14.6%
0-90	9 728.5	100%

Illuminance at a distance



CDF-LS2-W-D/4K120T • 12 339 lm

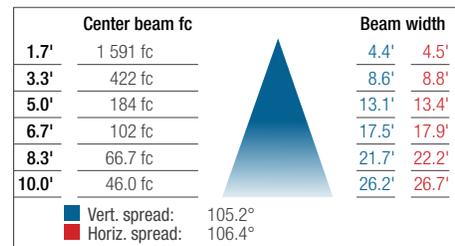
Polar candela distribution



Zonal lumen summary

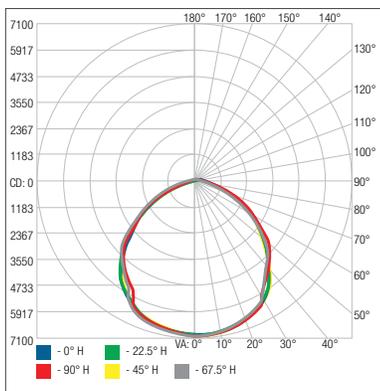
Zone	Lumens	% Fixture
0-30	3 628.6	30.8%
0-40	5 895.4	50.1%
0-60	10 016.5	85.1%
60-90	1 753.7	14.9%
0-90	11 770.2	100%

Illuminance at a distance



CDF-LS3-W-D/4K120T • 18 122 lm

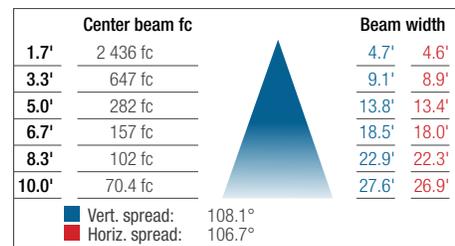
Polar candela distribution



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



¹ Complete IES files available on our website.

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