

CDA-L

HAZARDOUS LOCATION HIGH BAY

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

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

Class II, Division 2, Groups F, G

Non recessed marine luminaires, outside type (salt water)

The CDA-L Hazardous Location LED high bay 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 temperatures can be expected. The CDA-L is also NEC/CEC certified to be used in hazardous environments where there is presence of flammable vapours or gases or 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 is rated T4A, except for all the configurations that are 40 W and 347V (will not exceed 120°C)
- Class II Division 1 Division 2 & Class III are rated T5 (will not exceed 100°C)

Ambient operating temperature

-40°C to +55°C

All the configurations 60 W and 347 V have an ambient operating temperature of -40°C to + 45°C

Ambient operating humidity

5% ~ 95% RH

Optics

Comes standard with a thermal shock and impact resistant tempered glass lens and is available in a flat or a drop lens. Offered in a clear finish with a 110° beam angle and a diffuse finish is also available in option. The drop lens have a 130" beam angle.

• Electrical

Available in either S1 (45 W) or S2 (65 W) configurations with a lumen per watt ratio of 118 to 171 lm/W. Driver input voltage are 120-277 V or 347 V 50/60Hz are non-dimmable and have 4 kV integrated transient surge protection with a power factor >0.95. Durable high powered LUXEON LEDs with solder-less board connections for shock and vibration resistance. The CDA-L is offered in either 3 000, 4 000 or 5 000 K with a color rendering index (CRI) >70.

• NEC/CEC Standards

NEC500/CEC Section 18: Existing plants

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

NEC505/CEC Section 18 Zones: New plants

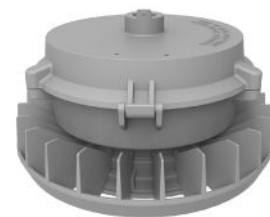
- Hazloc C
- Class I, Zone 2, Group IIC
- Zone 21

• Compliances

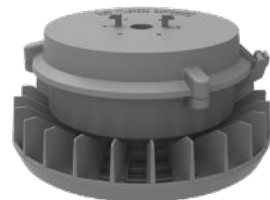
- Meets requirements of ICES-005 issue 4 for class A products
- 5G vibration resistant in compliance with IEC60598-1 standard, CL-4.20
- IK07 (drop lens)
- IK08 (flat lens)
- UL Standards
- UL1598A
- UL1598
- UL844
- UL8750
- CSA Standards
- CSA C22.2 No.250.0 250.13
- CSA C22.2 No.137

OVERVIEW

Light source	LED
Watts (W)	45 - 65 (120-277 V) 40 - 60 (347 V)
Lumen output (lm)	4 790 - 10 654
Efficacy (lm/W)	118 - 171
Color temperature (K)	3 000, 4 000, 5 000
CRI	>70
Weight (lbs)	9.26



Pendant adapter



Ceiling/Wall stanchion adapter



quick ship



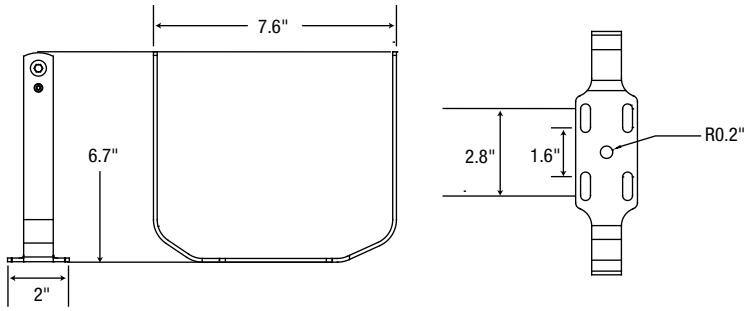
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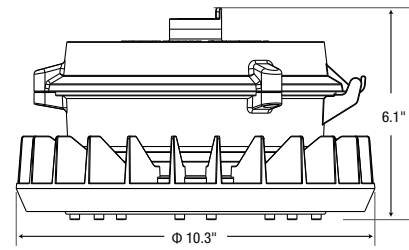
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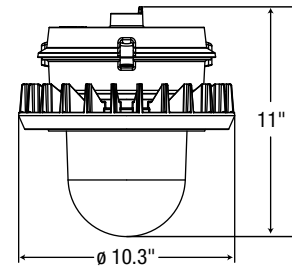
DIMENSIONS



WITH FLAT LENS GLASS



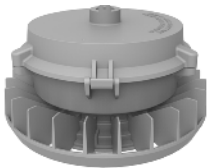
WITH DROP LENS



Part number	Net weight (lbs)	Dimensions (LxWxH)
CDA-LS1	9.26	10.2 x 5.9"
CDA-LS2		

MOUNTINGS

PENDANT (standard)
MOUNTING ADAPTER "P"



ACCESSORIES REQUIRED FOR OPTIONAL MOUNTING

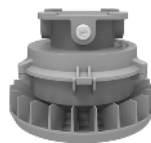
CEILING/ WALL MOUNT
BKT761-HB



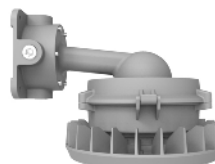
CEILING/WALL STANCHION (optional adapter)
MOUNTING ADAPTER "J"



CEILING MOUNT
JB018



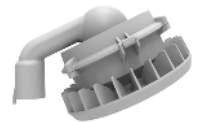
WALL MOUNT
BKT771-25 or
BKT771-90



POLE MOUNT
BKT773-P166 or
BKT773-P1900



POLE MOUNT
BKT772-P166 or
BKT772-P1900



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	Watts (W)	Color temp. (K) ²	Lumen output (lm) ³	Efficacy (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 - Pendant													
CDA-LS1-W-C/40K-TP	45	4 000	6 750	140	70	54 000	9 000	42	1.00	13	B4-U0-G1	110	1
CDA-LS2-W-C/40K-TP	65	4 000	9 750	144	70	54 000	9 000	43	0.99	11	B4-U0-G1	110	1
CDA-LS1-W-C/50K-TP	45	5 000	6 750	150	70	54 000	9 000	42	1.00	13	B4-U0-G1	110	1
CDA-LS2-W-C/50K-TP	65	5 000	9 750	150	70	54 000	9 000	43	0.99	11	B4-U0-G1	110	1
120-277 V - Ceiling / Wall stanchion													
CDA-LS1-W-C/40K-TJ	45	4 000	6 750	140	70	54 000	9 000	42	1.00	13	B4-U0-G1	110	1
CDA-LS2-W-C/40K-TJ	65	4 000	9 750	144	70	54 000	9 000	43	0.99	11	B4-U0-G1	110	1
CDA-LS1-W-C/50K-TJ	45	5 000	6 750	150	70	54 000	9 000	42	1.00	13	B4-U0-G1	110	1
CDA-LS2-W-C/50K-TJ	65	5 000	9 750	150	70	54 000	9 000	43	0.99	11	B4-U0-G1	110	1
347 V - Pendant													
CDA-LS1-H-C/40K-TP	40	4 000	6 750	157	70	54 000	9 000	37	0.97	13	B4-U0-G1	110	1
CDA-LS2-H-C/40K-TP	60	4 000	9 750	169	70	54 000	9 000	41	0.98	11	B4-U0-G1	110	1
CDA-LS1-H-C/50K-TP	40	5 000	6 750	156	70	54 000	9 000	37	0.97	13	B4-U0-G1	110	1
CDA-LS2-H-C/50K-TP	60	5 000	9 750	171	70	54 000	9 000	41	0.98	11	B4-U0-G1	110	1
347 V - Ceiling / Wall stanchion													
CDA-LS1-H-C/40K-TJ	40	4 000	6 750	157	70	54 000	9 000	37	0.97	13	B4-U0-G1	110	1
CDA-LS2-H-C/40K-TJ	60	4 000	9 750	169	70	54 000	9 000	41	0.98	11	B4-U0-G1	110	1
CDA-LS1-H-C/50K-TJ	40	5 000	6 750	156	70	54 000	9 000	37	0.97	13	B4-U0-G1	110	1
CDA-LS2-H-C/50K-TJ	60	5 000	9 750	171	70	54 000	9 000	41	0.98	11	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	Volt (V)	Hazloc	Color temp. (K)	Lens option	Mounting adapter
CDA	L - LED	S1 - Refer to S2 - technical specification table for details	W - 120-277 H - 347	C - Class I Division 2 Class II Division 1 Class II Division 2 Class III	30K - 3 000 40K - 4 000 50K - 5 000	D - Diffuse tempered glass T - Transparent tempered glass L - Drop lens tempered glass	P - NPT 3/4" pendant J ¹ - Ceiling/Wall stanchion

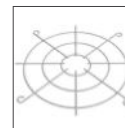
¹ See section below titled "Accessories for use with J mounting adapter" to choose your installation option

ACCESSORIES (order separately) to be used with "P" mounting adapter

Part number	Type
BKT761-HB	U-Bracket (SUS 304)
WGD070	Stainless steel wire guard
WGD071	Stainless steel wire guard for drop lens
HAR1056	Stainless steel safety cable kit



BKT761-HB
U-Bracket (SUS 304)



WGD070
Stainless steel wire guard



WGD071
Stainless steel wire guard for drop lens



HAR1056
Stainless steel safety cable kit

ACCESSORIES (order separately) to be used with "J" mounting adapter

Part number	Type
JB018	Junction box NPT 3/4"
BKT771-25	Wall mount-25°
BKT771-90	Wall mount-90°
BKT772-P166	Stanchion-25° (NPT 1.25")
BKT772-P1900	Stanchion-25° (NPT 1.50")
BKT773-P166	Stanchion-90° (NPT 1.25")
BKT773-P1900	Stanchion-90° (NPT 1.50")
WGD070	Stainless steel wire guard
WGD071	Stainless steel wire guard for drop lens
HAR1056	Stainless steel safety cable kit



JB018
Junction box NPT 3/4"



BKT771-25
Wall mount 25°



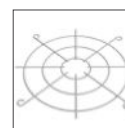
BKT771-90
Wall mount 90°



BKT772-P166 or BKT772-P1900
Stanchion-25°



BKT773-P166 or BKT773-P1900
Stanchion-90°



WGD070
Stainless steel wire guard



WGD071
Stainless steel wire guard for drop lens



HAR1056
Stainless steel safety cable kit

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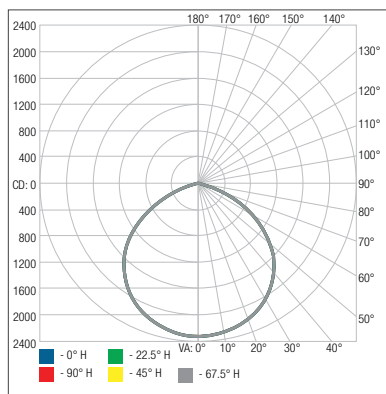
TECHNICAL SPECIFICATION TABLE

Lumen package	Volts (V AC)	Lens type	LED current (mA)	# of LEDs	Watts (W)	CRI	Lumens output (lm)	Efficacy (lm/w)	Life L70 (hrs)	Tested hours LM80 (hrs)	Power factor	THD (%)	B.U.G. rating	
3 000 K														
S1	120-277	Transparent	42	40	45	70	6 483	140	54 000	9 000	1.00	13	B4-U0-G1	
	347		37	40	40	70	5 752	144	54 000	9 000	0.97	13	B4-U0-G1	
S2	120-277		43	60	65	70	9 620	148	54 000	9 000	1.00	11	B4-U0-G1	
	347		41	60	60	70	9 151	155	54 000	9 000	0.98	11	B4-U0-G1	
S1	120-277		Diffuse	42	40	45	70	5 447	121	54 000	9 000	1.00	13	B4-U0-G1
	347			37	40	40	70	4 943	132	54 000	9 000	0.97	13	B4-U0-G1
S2	120-277	43		60	65	70	8 062	124	54 000	9 000	0.99	11	B4-U0-G1	
	347	41		60	60	70	7 795	132	54 000	9 000	0.98	11	B4-U0-G1	
S1	120-277	Drop Lens		42	40	45	70	5 520	129	54 000	9 000	1.00	13	B4-U0-G1
	347			37	40	40	70	4 790	120	54 000	9 000	0.97	13	B4-U0-G1
S2	120-277		43	60	65	70	8 193	125	54 000	9 000	0.99	11	B4-U0-G1	
	347		41	60	60	70	7 554	127	54 000	9 000	0.98	11	B4-U0-G1	
4 000 K														
S1	120-277		Diffuse	42	40	45	70	5 295	118	54 000	9 000	1.00	13	B4-U0-G1
	347	37		40	40	70	5 353	135	54 000	9 000	0.97	13	B4-U0-G1	
S2	120-277	43		60	65	70	7 963	123	54 000	9 000	0.99	11	B4-U0-G1	
	347	41		60	60	70	8 533	146	54 000	9 000	0.98	11	B4-U0-G1	
S1	120-277	Drop Lens		42	40	45	70	5 963	140	54 000	9 000	1.00	13	B4-U0-G1
	347			37	40	40	70	5 164	130	54 000	9 000	0.97	13	B4-U0-G1
S2	120-277		43	60	65	70	8 935	137	54 000	9 000	0.99	11	B4-U0-G1	
	347		41	60	60	70	8 273	141	54 000	9 000	0.98	11	B4-U0-G1	
5 000 K														
S1	120-277		Diffuse	42	40	45	70	5 767	128	54 000	9 000	1.00	16	B4-U0-G1
	347	37		40	40	70	5 248	133	54 000	9 000	0.89	16	B4-U0-G1	
S2	120-277	43		60	65	70	8 642	133	54 000	9 000	0.99	9	B4-U0-G1	
	347	41		60	60	70	8 539	146	54 000	9 000	0.89	9	B4-U0-G1	
S1	120-277	Drop Lens		42	40	45	70	5 760	137	54 000	9 000	1.00	13	B4-U0-G1
	347			37	40	40	70	5 063	129	54 000	9 000	0.97	13	B4-U0-G1
S2	120-277		43	60	65	70	8 961	138	54 000	9 000	0.99	11	B4-U0-G1	
	347		41	60	60	70	8 262	141	54 000	9 000	0.98	11	B4-U0-G1	

PHOTOMETRIC DATA¹

CDA-LS1-W-C/40K-T • 6 289.0 lm

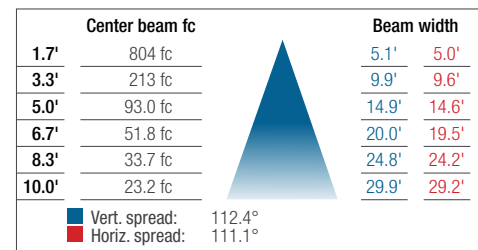
Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 829.0	29.1%
0-40	3 018.5	48%
0-60	5 338.3	84.9%
60-90	950.6	15.1%
0-90	6 289.0	100%

Illuminance at a distance



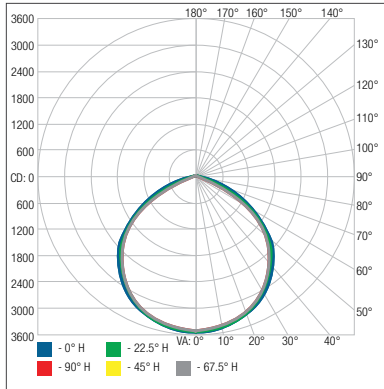
¹ Complete IES files available on our website.

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PHOTOMETRIC DATA¹ (cont'd)

CDA-LS2-W-C/40K-T • 9 337.9 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 777.8	29.7%
0-40	4 572.2	49%
0-60	8 007.4	85.8%
60-90	1 330.4	14.2%
0-90	9 337.9	100%

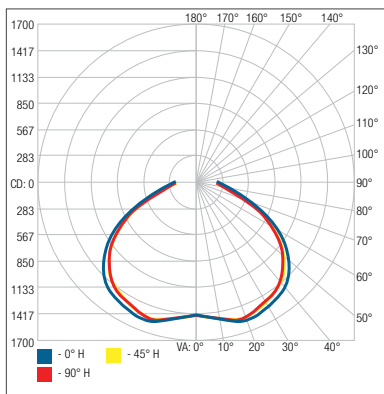
Illuminance at a distance

Center beam fc	Beam width
1.7'	5.1' 4.7'
3.3'	9.9' 9.1'
5.0'	15.1' 13.8'
6.7'	20.2' 18.5'
8.3'	25.0' 22.9'
10.0'	30.1' 27.6'

■ Vert. spread: 112.8°
■ Horiz. spread: 108.2°

CDA-LS1-W-C/40K-L • 5 962.9 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 294.9	21.7%
0-40	2 236.8	37.5%
0-60	4 340.1	72.8%
60-90	1 622.8	27.2%
0-90	5 962.9	100%

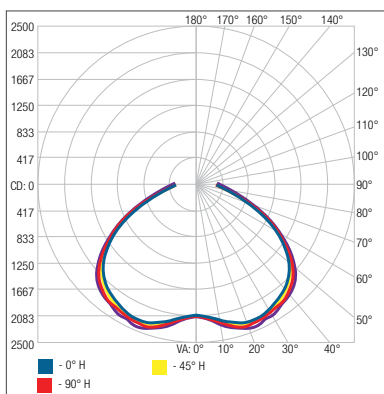
Illuminance at a distance

Center beam fc	Beam width
1.7'	67.0' 73.8'
3.3'	134.1' 147.6'
5.0'	201.1' 221.5'
6.7'	268.2' 295.3'
8.3'	335.2' 369.1'
10.0'	402.3' 442.9'

■ Vert. spread: 126.2°
■ Horiz. spread: 130.5°

CDA-LS2-W-C/40K-L • 8 934.6 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 940.3	21.7%
0-40	3 359.0	37.6%
0-60	6 502.7	72.8%
60-90	2 431.9	27.2%
0-90	8 934.6	100%

Illuminance at a distance

Center beam fc	Beam width
1.7'	67.6' 67.8'
3.3'	135.3' 135.6'
5.0'	202.9' 203.4'
6.7'	270.6' 271.2'
8.3'	338.2' 339.0'
10.0'	405.9' 406.8'

■ Vert. spread: 126.6°
■ Horiz. spread: 126.7°

¹ Complete IES files available on our website.

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