

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P571902

Luminaire Tested: 22ID-25-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22ID-25-L840-DBD
Description: 2500 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2643.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

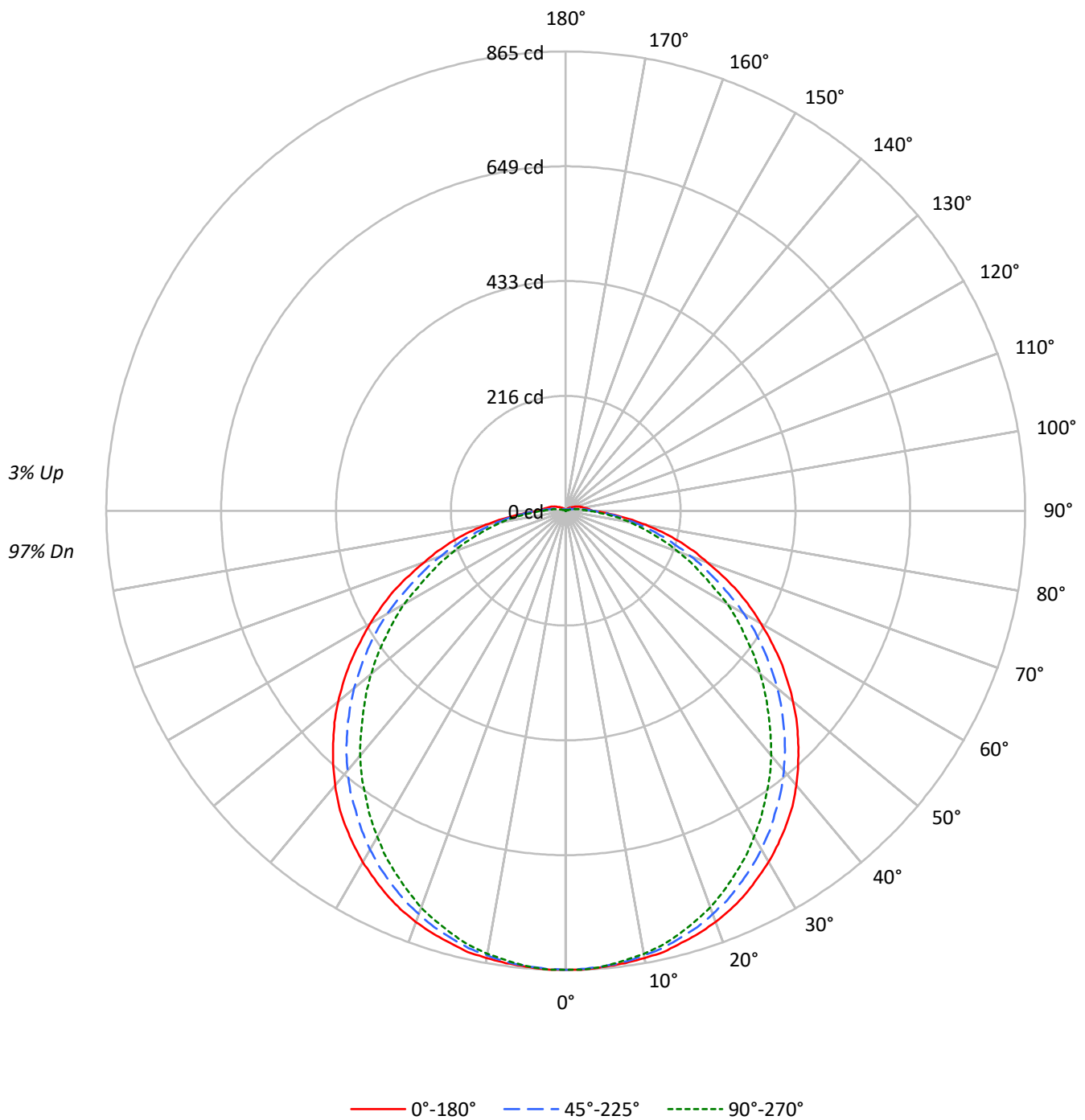
Input Watts (W): 20.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82
2	97	89	81	75	94	87	80	74	82	77	72	79	74	70	75	72	68
3	89	78	69	62	86	76	68	62	72	66	60	69	64	59	66	62	58
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50	59	54	49
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	47	43
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	48	42	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2327	2327	2327
5°	2312	2302	2308
10°	2304	2276	2283
15°	2296	2250	2250
20°	2291	2220	2211
25°	2281	2184	2158
30°	2265	2143	2103
35°	2246	2093	2039
40°	2217	2042	1977
45°	2175	1979	1895
50°	2129	1908	1821
55°	2070	1825	1730
60°	1996	1734	1653
65°	1926	1600	1531
70°	1814	1491	1438
75°	1740	1368	1336
80°	1608	1249	1265
85°	1445	1134	1199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	3.1
10°-20°	235.4	8.9
20°-30°	357.8	13.5
30°-40°	431.9	16.3
40°-50°	448.0	16.9
50°-60°	406.1	15.4
60°-70°	315.1	11.9
70°-80°	202.9	7.7
80°-90°	95.9	3.6
90°-100°	37.2	1.4
100°-110°	16.4	0.6
110°-120°	8.0	0.3
120°-130°	4.0	0.2
130°-140°	1.7	0.1
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	675.1	25.5
0°-40°	1107.0	41.9
0°-60°	1961.1	74.2
0°-90°	2575.0	97.4
90°-120°	61.7	2.3
90°-150°	67.9	2.6
90°-180°	68.0	2.6
0°-180°	2643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	862	862	861	859	861	82
15°	842	840	833	828	826	238
25°	798	792	776	762	755	368
35°	724	713	690	667	657	453
45°	619	609	581	552	539	478
55°	494	482	454	426	413	441
65°	357	341	315	294	283	351
75°	219	205	189	176	168	231
85°	91	91	86	81	76	88
90°	51	54	51	46	42	30
95°	42	35	33	30	27	33
105°	29	22	12	8	6	30
115°	17	14	8	1	0	17
125°	10	8	4	0	0	9
135°	5	4	1	0	0	4
145°	3	1	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	1	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.7	864.7	864.7	864.7	864.7
2.5°	864.7	863.4	863.4	863.4	864.7
5°	862.1	862.1	860.8	859.4	860.8
7.5°	859.4	858.1	856.8	855.5	854.2
10°	855.5	854.2	850.3	847.7	847.7
12.5°	851.6	847.7	843.8	839.9	838.6
15°	842.5	839.9	833.3	828.1	825.5
17.5°	834.6	830.7	822.9	815.0	811.1
20°	824.2	819.0	808.5	799.4	795.4
22.5°	812.4	805.9	794.1	781.1	775.9
25°	798.1	791.5	775.9	761.5	755.0
27.5°	781.1	774.5	757.6	739.3	734.1
30°	764.1	756.3	736.7	717.1	709.2
32.5°	744.5	735.4	714.5	692.3	684.4
35°	723.6	713.2	689.6	667.4	657.0
37.5°	701.4	691.0	666.1	641.3	630.9
40°	675.3	664.8	638.7	611.3	602.1
42.5°	647.9	637.4	611.3	582.5	570.8
45°	619.1	608.7	581.2	552.5	539.4
47.5°	590.4	579.9	551.2	522.5	509.4
50°	559.0	548.6	519.8	489.8	478.1
52.5°	526.4	515.9	487.2	458.5	446.7
55°	493.7	482.0	454.5	425.8	412.7
57.5°	458.5	448.0	421.9	394.5	382.7
60°	424.5	412.7	387.9	361.8	351.4
62.5°	390.5	377.5	351.4	325.2	314.8
65°	356.6	340.9	314.8	293.9	283.4
67.5°	318.7	304.3	283.4	262.5	254.7
70°	283.4	271.7	250.8	233.8	224.7
72.5°	252.1	237.7	218.1	205.1	197.2
75°	219.4	205.1	189.4	176.3	168.5
77.5°	185.5	173.7	160.7	151.5	143.7
80°	152.8	143.7	134.5	125.4	120.2
82.5°	120.2	114.9	109.7	103.2	98.0
85°	91.4	91.4	86.2	81.0	75.8
87.5°	67.9	69.2	66.6	61.4	57.5
90°	50.9	53.6	50.9	45.7	41.8
92.5°	45.7	43.1	40.5	37.9	34.0
95°	41.8	35.3	32.7	30.0	27.4
97.5°	37.9	30.0	26.1	23.5	20.9
100°	34.0	26.1	19.6	17.0	15.7
102.5°	31.3	24.8	15.7	11.8	11.8
105°	28.7	22.2	11.8	7.8	6.5
107.5°	24.8	19.6	10.4	5.2	3.9
110°	22.2	18.3	9.1	2.6	1.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.6	15.7	9.1	2.6	0.0
115°	17.0	14.4	7.8	1.3	0.0
117.5°	15.7	11.8	6.5	1.3	0.0
120°	13.1	10.4	5.2	1.3	0.0
122.5°	11.8	9.1	5.2	1.3	0.0
125°	10.4	7.8	3.9	0.0	0.0
127.5°	9.1	6.5	3.9	0.0	0.0
130°	7.8	6.5	2.6	0.0	0.0
132.5°	6.5	5.2	2.6	0.0	0.0
135°	5.2	3.9	1.3	0.0	0.0
137.5°	3.9	3.9	1.3	0.0	0.0
140°	3.9	2.6	1.3	0.0	0.0
142.5°	2.6	2.6	0.0	0.0	0.0
145°	2.6	1.3	0.0	0.0	0.0
147.5°	1.3	1.3	0.0	0.0	0.0
150°	1.3	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	1.3	1.3
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	1.3
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.3	1.3	1.3
180°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.44	16.04	14.84	16.41	16.79	13.48	15.09	13.89	15.46	15.84
	3H	16.33	17.78	16.74	18.16	18.59	15.22	16.68	15.64	17.06	17.48
	4H	17.11	18.49	17.55	18.89	19.32	15.92	17.29	16.36	17.69	18.13
	6H	17.76	19.04	18.21	19.45	19.91	16.51	17.79	16.96	18.20	18.66
	8H	18.01	19.23	18.47	19.67	20.13	16.74	17.97	17.21	18.41	18.87
	12H	18.21	19.38	18.68	19.82	20.31	16.95	18.12	17.42	18.56	19.05
4H	2H	14.93	16.31	15.37	16.71	17.15	14.17	15.55	14.61	15.95	16.39
	3H	17.05	18.22	17.50	18.66	19.12	16.13	17.30	16.58	17.75	18.21
	4H	17.98	19.04	18.45	19.50	19.99	16.96	18.02	17.43	18.48	18.98
	6H	18.78	19.71	19.27	20.20	20.71	17.69	18.62	18.18	19.11	19.62
	8H	19.09	19.97	19.59	20.46	20.98	17.99	18.86	18.49	19.35	19.88
	12H	19.37	20.16	19.89	20.68	21.21	18.26	19.05	18.78	19.57	20.10
8H	4H	18.25	19.12	18.74	19.61	20.13	17.35	18.23	17.85	18.72	19.24
	6H	19.19	19.92	19.72	20.45	20.99	18.23	18.96	18.76	19.50	20.03
	8H	19.60	20.26	20.14	20.81	21.35	18.63	19.29	19.17	19.84	20.38
	12H	19.99	20.58	20.54	21.11	21.73	19.01	19.59	19.55	20.13	20.74
12H	4H	18.28	19.07	18.80	19.59	20.12	17.42	18.21	17.94	18.73	19.25
	6H	19.25	19.91	19.79	20.46	21.00	18.33	19.00	18.88	19.54	20.09
	8H	19.73	20.32	20.27	20.85	21.46	18.80	19.39	19.35	19.93	20.54