

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: P571922

Luminaire Tested: 22ID-30-L850-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P571922
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-30-L850-DBD
Description: 3000 LUMEN, 2X2 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3188.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

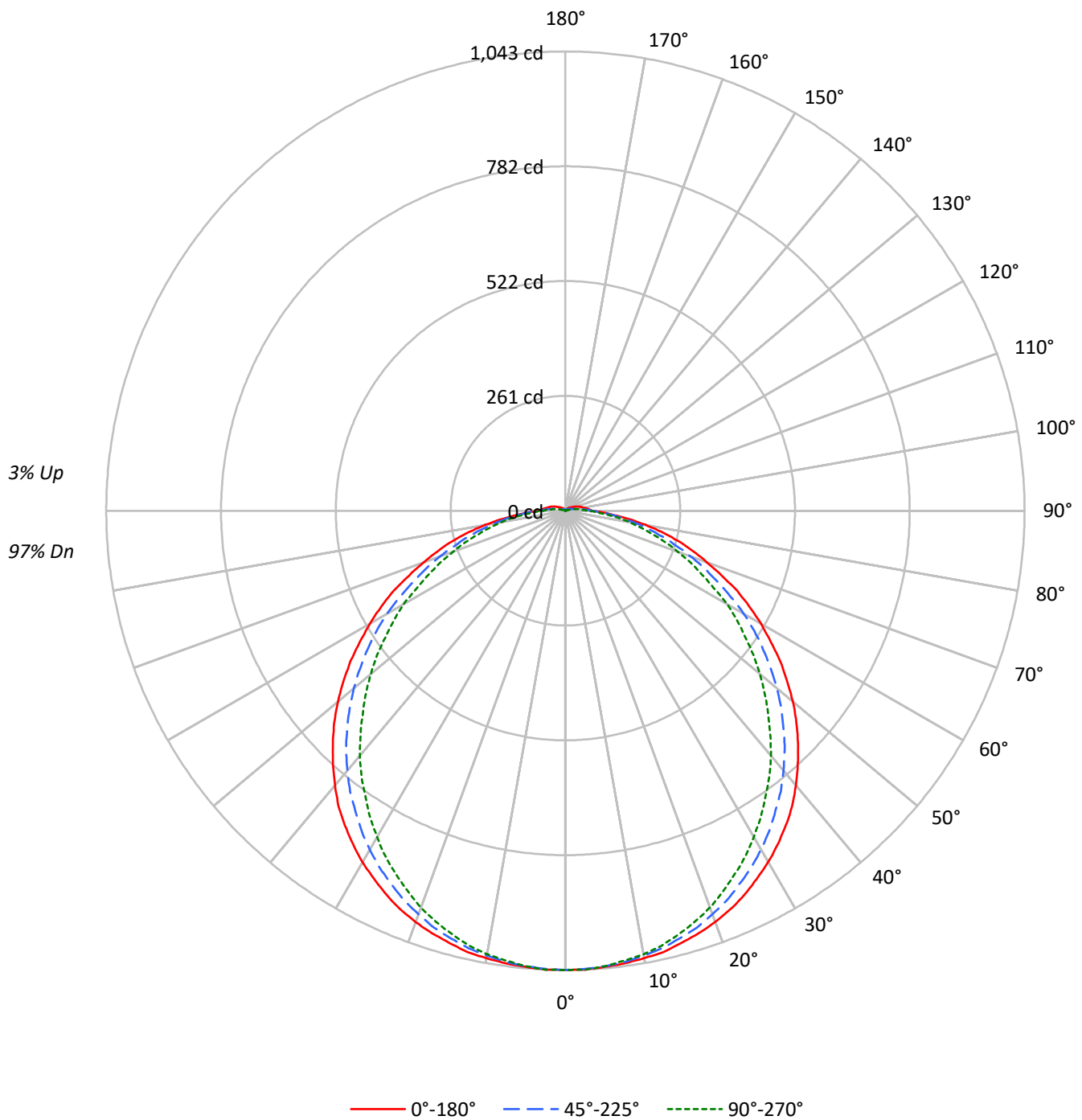
Input Watts (W): 24.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2807	2807	2807
5°	2788	2776	2784
10°	2779	2745	2754
15°	2769	2715	2713
20°	2763	2678	2667
25°	2751	2634	2603
30°	2732	2585	2536
35°	2709	2524	2460
40°	2674	2463	2385
45°	2623	2387	2286
50°	2568	2302	2196
55°	2497	2202	2087
60°	2408	2091	1993
65°	2323	1930	1847
70°	2189	1798	1735
75°	2099	1649	1611
80°	1939	1507	1525
85°	1744	1368	1445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2623 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.1
10°-20°	284.0	8.9
20°-30°	431.5	13.5
30°-40°	521.0	16.3
40°-50°	540.3	16.9
50°-60°	489.8	15.4
60°-70°	380.1	11.9
70°-80°	244.8	7.7
80°-90°	115.6	3.6
90°-100°	44.9	1.4
100°-110°	19.8	0.6
110°-120°	9.7	0.3
120°-130°	4.9	0.2
130°-140°	2.1	0.1
140°-150°	0.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	814.3	25.5
0°-40°	1335.3	41.9
0°-60°	2365.4	74.2
0°-90°	3106.0	97.4
90°-120°	74.4	2.3
90°-150°	82.0	2.6
90°-180°	82.0	2.6
0°-180°	3188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1040	1040	1038	1037	1038	99
15°	1016	1013	1005	999	996	287
25°	963	955	936	918	911	444
35°	873	860	832	805	792	546
45°	747	734	701	666	651	576
55°	596	581	548	514	498	532
65°	430	411	380	354	342	424
75°	265	247	228	213	203	279
85°	110	110	104	98	91	106
90°	61	65	61	55	50	36
95°	50	42	39	36	33	39
105°	35	27	14	10	8	36
115°	20	17	10	2	0	21
125°	13	10	5	0	0	11
135°	6	5	2	0	0	5
145°	3	2	0	0	0	2
155°	0	0	0	0	0	0
165°	0	0	0	2	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.0	1043.0	1043.0	1043.0	1043.0
2.5°	1043.0	1041.4	1041.4	1041.4	1043.0
5°	1039.8	1039.8	1038.2	1036.7	1038.2
7.5°	1036.7	1035.1	1033.5	1031.9	1030.4
10°	1031.9	1030.4	1025.6	1022.5	1022.5
12.5°	1027.2	1022.5	1017.8	1013.0	1011.5
15°	1016.2	1013.0	1005.2	998.9	995.7
17.5°	1006.7	1002.0	992.6	983.1	978.4
20°	994.1	987.8	975.2	964.2	959.5
22.5°	980.0	972.1	957.9	942.1	935.8
25°	962.6	954.7	935.8	918.5	910.6
27.5°	942.1	934.3	913.8	891.7	885.4
30°	921.7	912.2	888.6	864.9	855.5
32.5°	898.0	887.0	861.8	835.0	825.6
35°	872.8	860.2	831.9	805.1	792.5
37.5°	846.0	833.4	803.5	773.6	761.0
40°	814.5	801.9	770.4	737.3	726.3
42.5°	781.4	768.8	737.3	702.7	688.5
45°	746.8	734.2	701.1	666.4	650.7
47.5°	712.1	699.5	664.9	630.2	614.4
50°	674.3	661.7	627.0	590.8	576.6
52.5°	634.9	622.3	587.7	553.0	538.8
55°	595.5	581.4	548.3	513.6	497.9
57.5°	553.0	540.4	508.9	475.8	461.6
60°	512.0	497.9	467.9	436.4	423.8
62.5°	471.1	455.3	423.8	392.3	379.7
65°	430.1	411.2	379.7	354.5	341.9
67.5°	384.4	367.1	341.9	316.7	307.2
70°	341.9	327.7	302.5	282.0	271.0
72.5°	304.1	286.7	263.1	247.4	237.9
75°	264.7	247.4	228.4	212.7	203.2
77.5°	223.7	209.5	193.8	182.8	173.3
80°	184.3	173.3	162.3	151.2	144.9
82.5°	144.9	138.6	132.3	124.5	118.2
85°	110.3	110.3	104.0	97.7	91.4
87.5°	81.9	83.5	80.3	74.0	69.3
90°	61.4	64.6	61.4	55.1	50.4
92.5°	55.1	52.0	48.8	45.7	41.0
95°	50.4	42.5	39.4	36.2	33.1
97.5°	45.7	36.2	31.5	28.4	25.2
100°	41.0	31.5	23.6	20.5	18.9
102.5°	37.8	29.9	18.9	14.2	14.2
105°	34.7	26.8	14.2	9.5	7.9
107.5°	29.9	23.6	12.6	6.3	4.7
110°	26.8	22.1	11.0	3.2	1.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.6	18.9	11.0	3.2	0.0
115°	20.5	17.3	9.5	1.6	0.0
117.5°	18.9	14.2	7.9	1.6	0.0
120°	15.8	12.6	6.3	1.6	0.0
122.5°	14.2	11.0	6.3	1.6	0.0
125°	12.6	9.5	4.7	0.0	0.0
127.5°	11.0	7.9	4.7	0.0	0.0
130°	9.5	7.9	3.2	0.0	0.0
132.5°	7.9	6.3	3.2	0.0	0.0
135°	6.3	4.7	1.6	0.0	0.0
137.5°	4.7	4.7	1.6	0.0	0.0
140°	4.7	3.2	1.6	0.0	0.0
142.5°	3.2	3.2	0.0	0.0	0.0
145°	3.2	1.6	0.0	0.0	0.0
147.5°	1.6	1.6	0.0	0.0	0.0
150°	1.6	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	1.6	1.6
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	1.6
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.6	1.6	1.6
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	15.09	16.69	15.49	17.06	17.44	14.13	15.74	14.54	16.11	16.49
	3H	16.98	18.43	17.39	18.82	19.24	15.87	17.33	16.29	17.71	18.13
	4H	17.76	19.14	18.20	19.54	19.97	16.57	17.95	17.01	18.35	18.78
	6H	18.41	19.69	18.86	20.11	20.56	17.16	18.44	17.61	18.85	19.31
	8H	18.66	19.88	19.12	20.32	20.78	17.40	18.62	17.86	19.06	19.52
	12H	18.86	20.04	19.33	20.47	20.96	17.60	18.77	18.07	19.21	19.70
4H	2H	15.58	16.96	16.02	17.36	17.80	14.82	16.20	15.26	16.60	17.04
	3H	17.70	18.87	18.15	19.32	19.78	16.78	17.95	17.23	18.40	18.86
	4H	18.63	19.69	19.10	20.15	20.64	17.61	18.67	18.08	19.13	19.63
	6H	19.43	20.36	19.92	20.85	21.36	18.34	19.27	18.83	19.76	20.27
	8H	19.74	20.62	20.24	21.11	21.63	18.64	19.51	19.14	20.00	20.53
	12H	20.02	20.81	20.54	21.33	21.86	18.91	19.70	19.43	20.22	20.75
8H	4H	18.90	19.77	19.40	20.26	20.78	18.00	18.88	18.50	19.37	19.89
	6H	19.84	20.57	20.37	21.11	21.64	18.88	19.62	19.41	20.15	20.68
	8H	20.25	20.91	20.80	21.46	22.00	19.28	19.94	19.82	20.49	21.03
	12H	20.64	21.23	21.19	21.77	22.38	19.66	20.25	20.20	20.78	21.39
12H	4H	18.93	19.72	19.45	20.24	20.77	18.07	18.86	18.59	19.38	19.91
	6H	19.90	20.56	20.45	21.11	21.65	18.98	19.65	19.53	20.20	20.74
	8H	20.38	20.97	20.92	21.50	22.12	19.45	20.04	20.00	20.58	21.19