

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384165

Luminaire Tested: **22ID-85-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-85-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

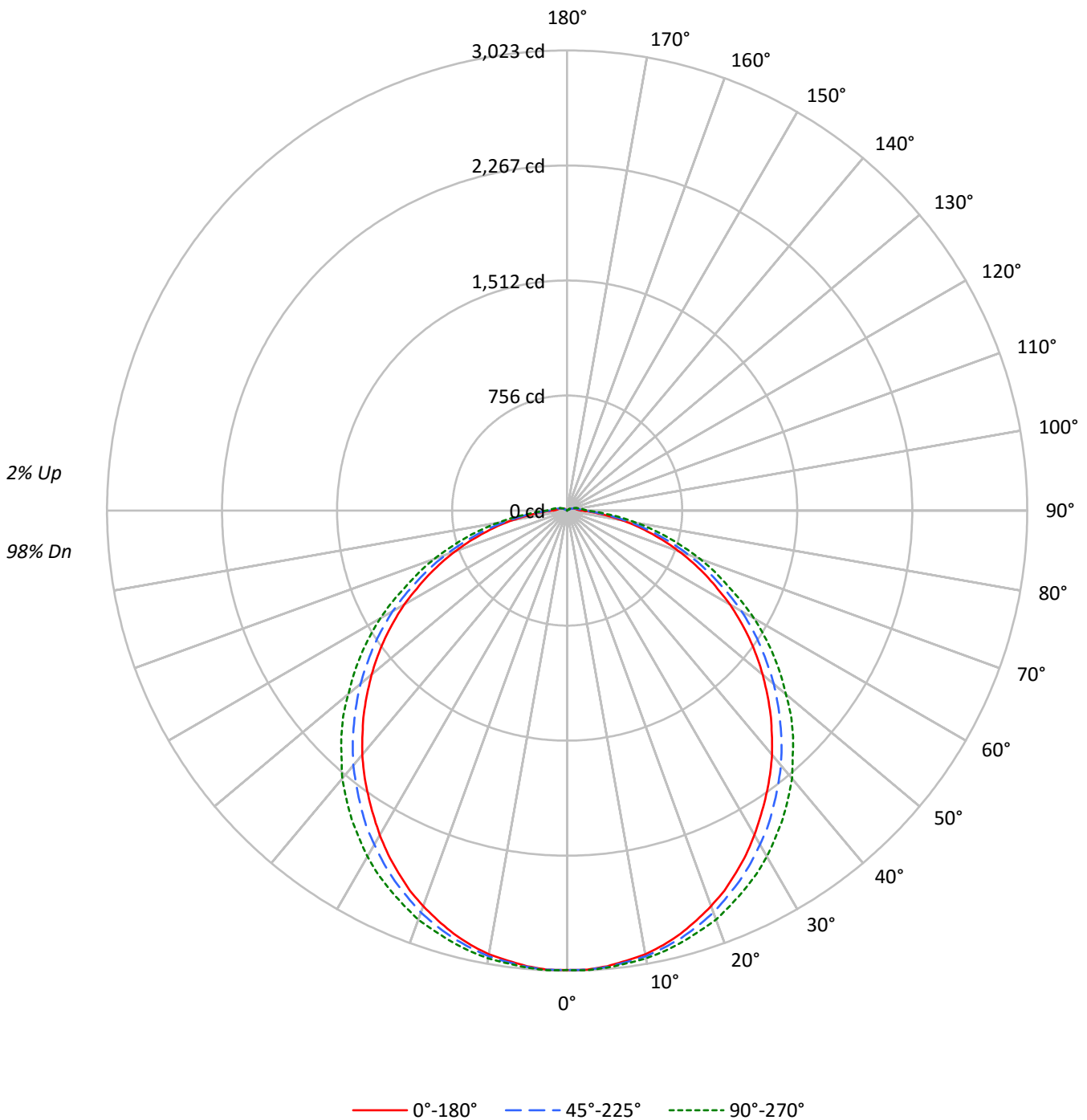
Lumens per Lamp: N/A
Luminaire Lumens: 8939.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 78.1
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT



TEST NUMBER: P384165
CATALOG NUMBER: 22ID-85-L850-CFD1

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8123	8123	8123
5°	8088	8087	8112
10°	8028	8041	8102
15°	7929	7968	8079
20°	7799	7878	8068
25°	7643	7754	8013
30°	7467	7613	7963
35°	7277	7464	7885
40°	7107	7313	7800
45°	6905	7118	7666
50°	6688	6932	7484
55°	6462	6708	7326
60°	6211	6463	7121
65°	5882	6098	6782
70°	5503	5739	6559
75°	5057	5254	6199
80°	4545	4686	5795
85°	4077	4181	5499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	3.2
10°-20°	819.5	9.2
20°-30°	1237.2	13.8
30°-40°	1482.4	16.6
40°-50°	1532.6	17.1
50°-60°	1387.9	15.5
60°-70°	1074.0	12.0
70°-80°	659.7	7.4
80°-90°	262.2	2.9
90°-100°	95.6	1.1
100°-110°	58.8	0.7
110°-120°	30.2	0.3
120°-130°	12.9	0.1
130°-140°	0.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2342.6	26.2
0°-40°	3825.0	42.8
0°-60°	6745.5	75.5
0°-90°	8741.4	97.8
90°-120°	184.6	2.1
90°-150°	198.4	2.2
90°-180°	198.0	2.2
0°-180°	8939.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3018	3018	3018	3018	3018	
5°	3005	3005	3009	3009	3014	285
15°	2878	2882	2905	2923	2932	811
25°	2624	2642	2683	2728	2751	1209
35°	2280	2307	2366	2429	2470	1427
45°	1890	1913	1981	2062	2098	1457
55°	1459	1491	1550	1618	1654	1304
65°	1006	1029	1079	1133	1160	995
75°	562	589	616	657	689	599
85°	195	208	227	249	263	194
90°	91	104	113	127	136	53
95°	68	77	86	95	104	54
105°	50	50	54	59	64	53
115°	32	27	27	32	36	32
125°	18	14	9	14	18	17
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384165

CATALOG NUMBER: 22ID-85-L850-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3018.5	3018.5	3018.5	3018.5	3018.5
2.5°	3018.5	3014.0	3018.5	3018.5	3023.0
5°	3004.9	3004.9	3009.4	3009.4	3014.0
7.5°	2982.2	2982.2	2991.3	2995.8	3000.4
10°	2959.6	2959.6	2973.2	2977.7	2986.8
12.5°	2923.3	2927.8	2941.4	2955.0	2964.1
15°	2878.0	2882.5	2905.2	2923.3	2932.4
17.5°	2823.6	2832.7	2859.9	2887.1	2896.1
20°	2764.7	2778.3	2810.0	2841.7	2859.9
22.5°	2701.2	2710.3	2746.6	2787.3	2805.5
25°	2624.2	2642.3	2683.1	2728.4	2751.1
27.5°	2547.1	2565.3	2610.6	2665.0	2692.2
30°	2461.0	2479.1	2533.5	2592.5	2624.2
32.5°	2370.4	2393.0	2456.5	2515.4	2547.1
35°	2279.7	2306.9	2365.8	2429.3	2470.1
37.5°	2189.1	2211.7	2275.2	2343.2	2384.0
40°	2093.9	2116.6	2184.6	2252.5	2297.9
42.5°	1989.7	2016.9	2084.8	2157.4	2193.6
45°	1890.0	1912.6	1980.6	2062.2	2098.4
47.5°	1781.2	1812.9	1876.4	1953.4	1994.2
50°	1676.9	1704.1	1772.1	1844.6	1876.4
52.5°	1568.2	1595.4	1658.8	1731.3	1767.6
55°	1459.4	1491.1	1550.0	1618.0	1654.3
57.5°	1346.1	1377.8	1436.7	1495.6	1536.4
60°	1237.3	1269.0	1323.4	1382.3	1418.6
62.5°	1114.9	1142.1	1201.0	1264.5	1291.7
65°	1006.2	1028.8	1078.7	1133.1	1160.3
67.5°	892.9	920.0	965.4	1015.2	1047.0
70°	779.5	811.3	847.5	892.9	929.1
72.5°	670.8	698.0	729.7	775.0	806.7
75°	562.0	589.2	616.4	657.2	688.9
77.5°	466.8	480.4	507.6	543.9	575.6
80°	362.6	380.7	403.4	439.6	462.3
82.5°	271.9	290.1	308.2	335.4	358.0
85°	194.9	208.5	226.6	249.3	262.9
87.5°	131.4	145.0	158.6	176.8	190.4
90°	90.6	104.2	113.3	126.9	136.0
92.5°	77.0	86.1	95.2	104.2	113.3
95°	68.0	77.0	86.1	95.2	104.2
97.5°	63.5	68.0	77.0	86.1	90.6
100°	58.9	63.5	68.0	77.0	81.6
102.5°	54.4	54.4	63.5	68.0	72.5
105°	49.9	49.9	54.4	58.9	63.5
107.5°	45.3	45.3	49.9	49.9	58.9
110°	40.8	36.3	40.8	40.8	49.9



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CATALOG NUMBER: 22ID-85-L850-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.3	31.7	36.3	36.3	40.8
115°	31.7	27.2	27.2	31.7	36.3
117.5°	27.2	22.7	22.7	22.7	31.7
120°	27.2	22.7	18.1	18.1	27.2
122.5°	22.7	18.1	13.6	18.1	22.7
125°	18.1	13.6	9.1	13.6	18.1
127.5°	13.6	13.6	4.5	9.1	13.6
130°	13.6	9.1	4.5	9.1	9.1
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	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	0.0	0.0
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	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)