

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: P384109

Luminaire Tested: **14ID-85-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384109  
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: 14ID-85-L850-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

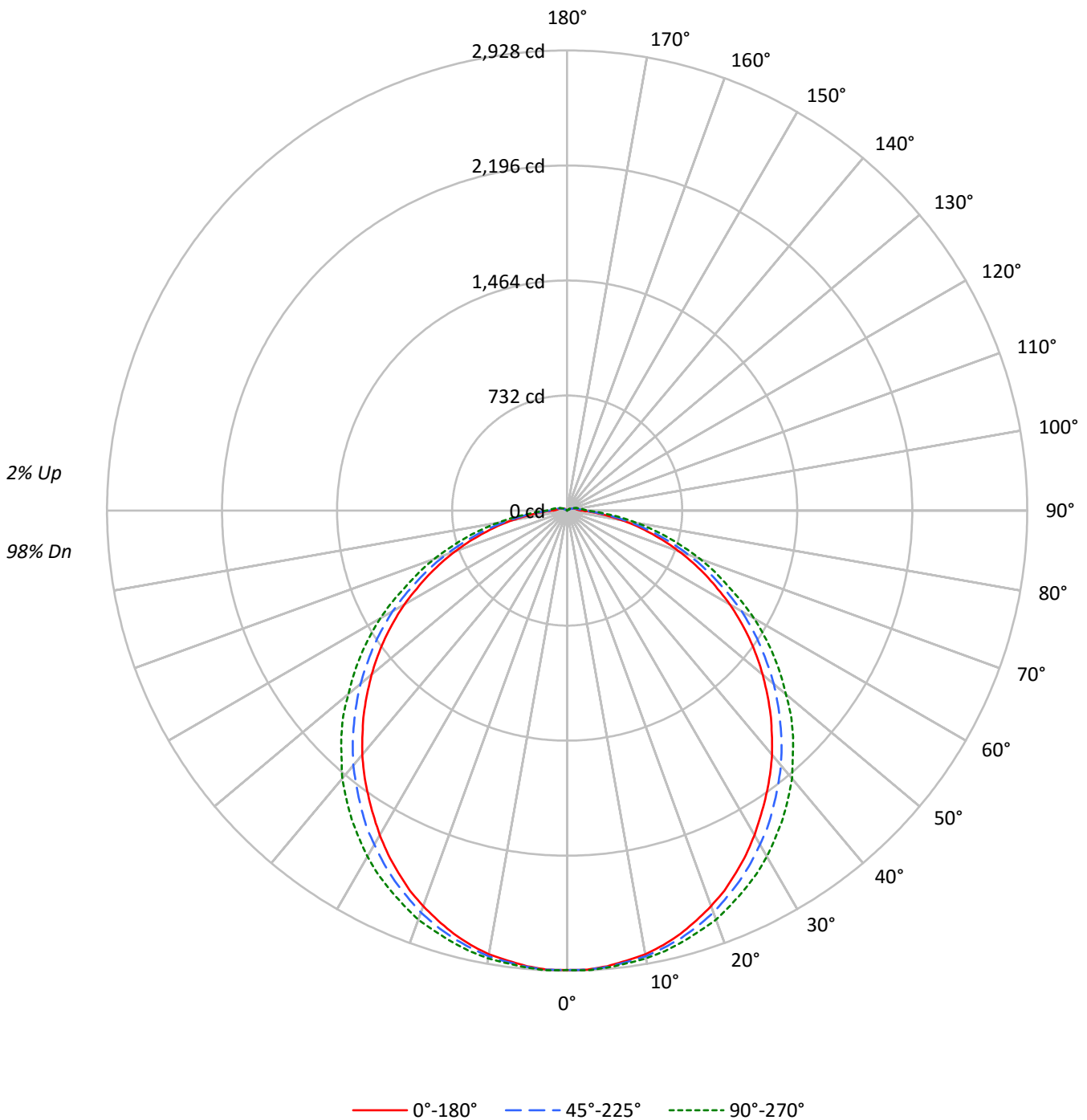
Lumens per Lamp: N/A  
Luminaire Lumens: 8659.1 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 83.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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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	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°	7868	7868	7868
5°	7848	7824	7829
10°	7804	7768	7791
15°	7723	7688	7740
20°	7611	7591	7699
25°	7474	7460	7616
30°	7319	7314	7536
35°	7150	7159	7426
40°	7002	7001	7308
45°	6824	6800	7140
50°	6635	6606	6921
55°	6440	6374	6718
60°	6226	6119	6463
65°	5940	5745	6071
70°	5620	5372	5762
75°	5252	4869	5293
80°	4868	4271	4713
85°	4709	3680	4027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.9	3.2
10°-20°	793.7	9.2
20°-30°	1198.4	13.8
30°-40°	1435.9	16.6
40°-50°	1484.5	17.1
50°-60°	1344.3	15.5
60°-70°	1040.3	12.0
70°-80°	639.0	7.4
80°-90°	253.9	2.9
90°-100°	92.6	1.1
100°-110°	56.9	0.7
110°-120°	29.2	0.3
120°-130°	12.5	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°	2269.0	26.2
0°-40°	3704.9	42.8
0°-60°	6533.8	75.5
0°-90°	8467.0	97.8
90°-120°	178.8	2.1
90°-150°	192.1	2.2
90°-180°	192.0	2.2
0°-180°	8659.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2924	2924	2924	2924	2924	
5°	2910	2910	2915	2915	2919	276
15°	2788	2792	2814	2832	2840	786
25°	2542	2559	2599	2643	2665	1171
35°	2208	2234	2292	2353	2392	1382
45°	1831	1853	1918	1997	2032	1411
55°	1414	1444	1501	1567	1602	1263
65°	975	996	1045	1098	1124	964
75°	544	571	597	636	667	580
85°	189	202	220	241	255	188
90°	88	101	110	123	132	52
95°	66	75	83	92	101	53
105°	48	48	53	57	62	51
115°	31	26	26	31	35	31
125°	18	13	9	13	18	16
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: P384109

CATALOG NUMBER: 14ID-85-L850-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2923.7	2923.7	2923.7	2923.7	2923.7
2.5°	2923.7	2919.3	2923.7	2923.7	2928.1
5°	2910.5	2910.5	2914.9	2914.9	2919.3
7.5°	2888.6	2888.6	2897.4	2901.8	2906.2
10°	2866.6	2866.6	2879.8	2884.2	2893.0
12.5°	2831.5	2835.9	2849.1	2862.3	2871.0
15°	2787.6	2792.0	2814.0	2831.5	2840.3
17.5°	2734.9	2743.7	2770.1	2796.4	2805.2
20°	2677.9	2691.0	2721.8	2752.5	2770.1
22.5°	2616.4	2625.2	2660.3	2699.8	2717.4
25°	2541.8	2559.3	2598.9	2642.8	2664.7
27.5°	2467.2	2484.7	2528.6	2581.3	2607.6
30°	2383.7	2401.3	2454.0	2511.1	2541.8
32.5°	2295.9	2317.9	2379.4	2436.4	2467.2
35°	2208.1	2234.5	2291.6	2353.0	2392.5
37.5°	2120.3	2142.3	2203.8	2269.6	2309.1
40°	2028.2	2050.1	2116.0	2181.8	2225.7
42.5°	1927.2	1953.5	2019.4	2089.6	2124.7
45°	1830.6	1852.6	1918.4	1997.4	2032.5
47.5°	1725.3	1756.0	1817.4	1892.1	1931.6
50°	1624.3	1650.6	1716.5	1786.7	1817.4
52.5°	1518.9	1545.3	1606.7	1677.0	1712.1
55°	1413.6	1444.3	1501.4	1567.2	1602.3
57.5°	1303.8	1334.5	1391.6	1448.7	1488.2
60°	1198.5	1229.2	1281.9	1338.9	1374.1
62.5°	1079.9	1106.3	1163.3	1224.8	1251.1
65°	974.6	996.5	1044.8	1097.5	1123.8
67.5°	864.8	891.2	935.1	983.4	1014.1
70°	755.1	785.8	820.9	864.8	899.9
72.5°	649.7	676.1	706.8	750.7	781.4
75°	544.4	570.7	597.0	636.5	667.3
77.5°	452.2	465.3	491.7	526.8	557.5
80°	351.2	368.8	390.7	425.8	447.8
82.5°	263.4	281.0	298.5	324.9	346.8
85°	188.8	201.9	219.5	241.4	254.6
87.5°	127.3	140.5	153.6	171.2	184.4
90°	87.8	101.0	109.7	122.9	131.7
92.5°	74.6	83.4	92.2	101.0	109.7
95°	65.8	74.6	83.4	92.2	101.0
97.5°	61.5	65.8	74.6	83.4	87.8
100°	57.1	61.5	65.8	74.6	79.0
102.5°	52.7	52.7	61.5	65.8	70.2
105°	48.3	48.3	52.7	57.1	61.5
107.5°	43.9	43.9	48.3	48.3	57.1
110°	39.5	35.1	39.5	39.5	48.3



TEST NUMBER: P384109

CATALOG NUMBER: 14ID-85-L850-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	35.1	30.7	35.1	35.1	39.5
115°	30.7	26.3	26.3	30.7	35.1
117.5°	26.3	21.9	21.9	21.9	30.7
120°	26.3	21.9	17.6	17.6	26.3
122.5°	21.9	17.6	13.2	17.6	21.9
125°	17.6	13.2	8.8	13.2	17.6
127.5°	13.2	13.2	4.4	8.8	13.2
130°	13.2	8.8	4.4	8.8	8.8
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)