

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: P384205

Luminaire Tested: **24ID-70-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384205  
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: 24ID-70-L850-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

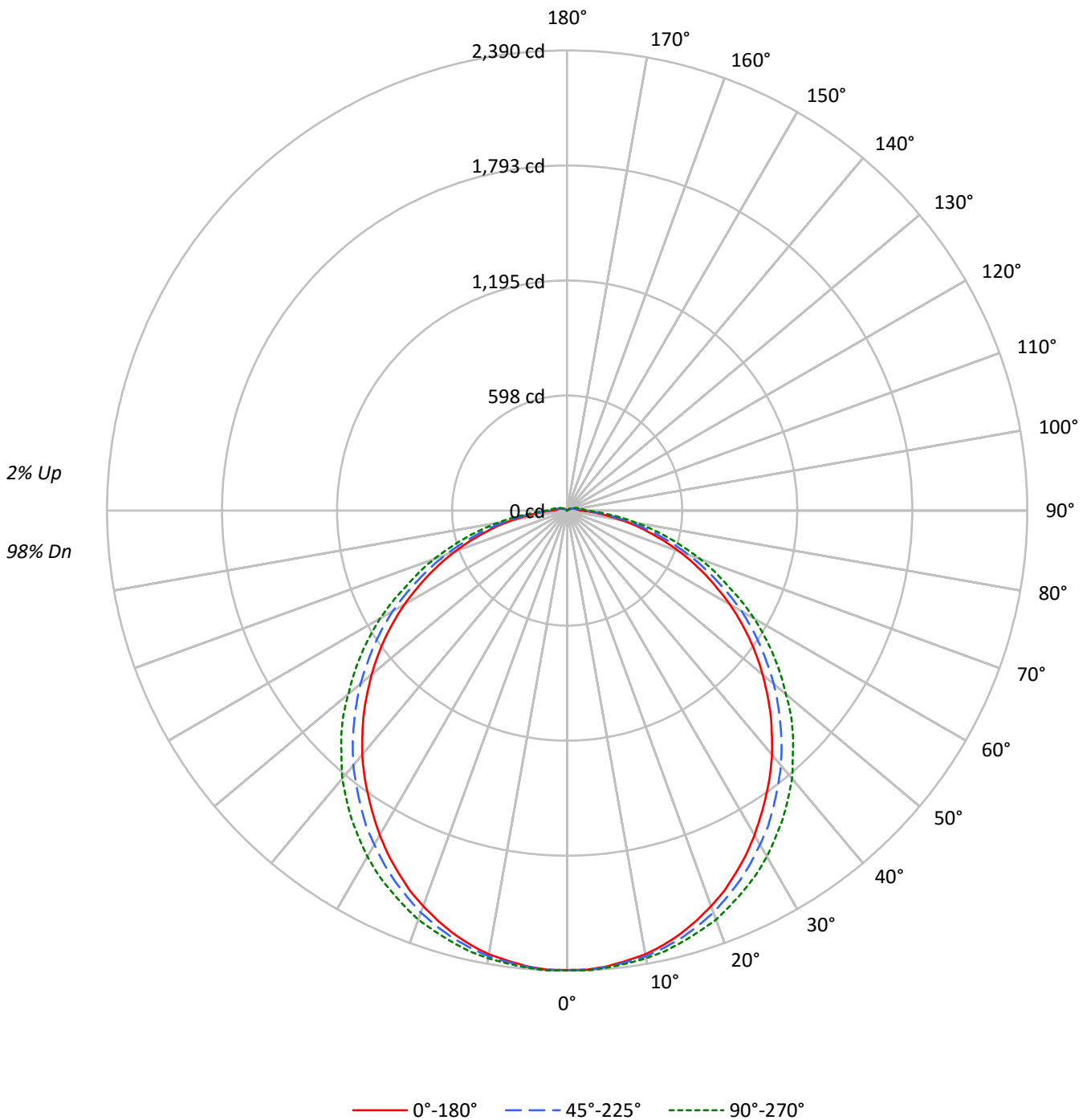
Lumens per Lamp: N/A  
Luminaire Lumens: 7068.6 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 65.7  
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°	3211	3211	3211
5°	3203	3201	3207
10°	3185	3187	3203
15°	3152	3162	3194
20°	3106	3131	3189
25°	3051	3086	3168
30°	2987	3035	3148
35°	2918	2980	3117
40°	2858	2925	3083
45°	2786	2854	3031
50°	2708	2786	2959
55°	2629	2704	2896
60°	2541	2616	2815
65°	2425	2480	2681
70°	2294	2351	2593
75°	2144	2175	2451
80°	1987	1976	2291
85°	1922	1838	2173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	3.2
10°-20°	648.0	9.2
20°-30°	978.3	13.8
30°-40°	1172.1	16.6
40°-50°	1211.8	17.1
50°-60°	1097.4	15.5
60°-70°	849.2	12.0
70°-80°	521.7	7.4
80°-90°	207.3	2.9
90°-100°	75.6	1.1
100°-110°	46.5	0.7
110°-120°	23.9	0.3
120°-130°	10.2	0.1
130°-140°	0.7	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°	1852.2	26.2
0°-40°	3024.4	42.8
0°-60°	5333.6	75.5
0°-90°	6911.7	97.8
90°-120°	146.0	2.1
90°-150°	156.9	2.2
90°-180°	157.0	2.2
0°-180°	7068.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2376	2376	2380	2380	2383	226
15°	2276	2279	2297	2311	2319	641
25°	2075	2089	2122	2157	2175	956
35°	1803	1824	1871	1921	1953	1129
45°	1494	1512	1566	1630	1659	1152
55°	1154	1179	1226	1279	1308	1031
65°	796	814	853	896	917	787
75°	444	466	487	520	545	474
85°	154	165	179	197	208	154
90°	72	82	90	100	108	42
95°	54	61	68	75	82	43
105°	39	39	43	47	50	42
115°	25	22	22	25	29	25
125°	14	11	7	11	14	13
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2386.7	2386.7	2386.7	2386.7	2386.7
2.5°	2386.7	2383.1	2386.7	2386.7	2390.3
5°	2375.9	2375.9	2379.5	2379.5	2383.1
7.5°	2358.0	2358.0	2365.2	2368.8	2372.4
10°	2340.1	2340.1	2350.8	2354.4	2361.6
12.5°	2311.4	2315.0	2325.8	2336.5	2343.7
15°	2275.6	2279.2	2297.1	2311.4	2318.6
17.5°	2232.6	2239.8	2261.3	2282.8	2289.9
20°	2186.0	2196.8	2221.8	2246.9	2261.3
22.5°	2135.8	2143.0	2171.7	2203.9	2218.3
25°	2074.9	2089.2	2121.5	2157.3	2175.3
27.5°	2014.0	2028.3	2064.2	2107.2	2128.7
30°	1945.9	1960.2	2003.2	2049.8	2074.9
32.5°	1874.2	1892.1	1942.3	1988.9	2014.0
35°	1802.6	1824.1	1870.6	1920.8	1953.1
37.5°	1730.9	1748.8	1799.0	1852.7	1885.0
40°	1655.6	1673.5	1727.3	1781.1	1816.9
42.5°	1573.2	1594.7	1648.5	1705.8	1734.5
45°	1494.4	1512.3	1566.0	1630.5	1659.2
47.5°	1408.4	1433.4	1483.6	1544.5	1576.8
50°	1325.9	1347.4	1401.2	1458.5	1483.6
52.5°	1239.9	1261.4	1311.6	1368.9	1397.6
55°	1153.9	1179.0	1225.6	1279.3	1308.0
57.5°	1064.3	1089.4	1136.0	1182.6	1214.8
60°	978.3	1003.4	1046.4	1093.0	1121.7
62.5°	881.6	903.1	949.7	999.8	1021.3
65°	795.6	813.5	852.9	895.9	917.4
67.5°	706.0	727.5	763.3	802.7	827.8
70°	616.4	641.5	670.1	706.0	734.6
72.5°	530.4	551.9	577.0	612.8	637.9
75°	444.4	465.9	487.4	519.6	544.7
77.5°	369.1	379.9	401.4	430.0	455.1
80°	286.7	301.0	318.9	347.6	365.5
82.5°	215.0	229.4	243.7	265.2	283.1
85°	154.1	164.8	179.2	197.1	207.8
87.5°	103.9	114.7	125.4	139.8	150.5
90°	71.7	82.4	89.6	100.3	107.5
92.5°	60.9	68.1	75.3	82.4	89.6
95°	53.8	60.9	68.1	75.3	82.4
97.5°	50.2	53.8	60.9	68.1	71.7
100°	46.6	50.2	53.8	60.9	64.5
102.5°	43.0	43.0	50.2	53.8	57.3
105°	39.4	39.4	43.0	46.6	50.2
107.5°	35.8	35.8	39.4	39.4	46.6
110°	32.3	28.7	32.3	32.3	39.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	28.7	25.1	28.7	28.7	32.3
115°	25.1	21.5	21.5	25.1	28.7
117.5°	21.5	17.9	17.9	17.9	25.1
120°	21.5	17.9	14.3	14.3	21.5
122.5°	17.9	14.3	10.8	14.3	17.9
125°	14.3	10.8	7.2	10.8	14.3
127.5°	10.8	10.8	3.6	7.2	10.8
130°	10.8	7.2	3.6	7.2	7.2
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)