

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: P384157

Luminaire Tested: **22ID-75-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384157  
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-75-L850-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

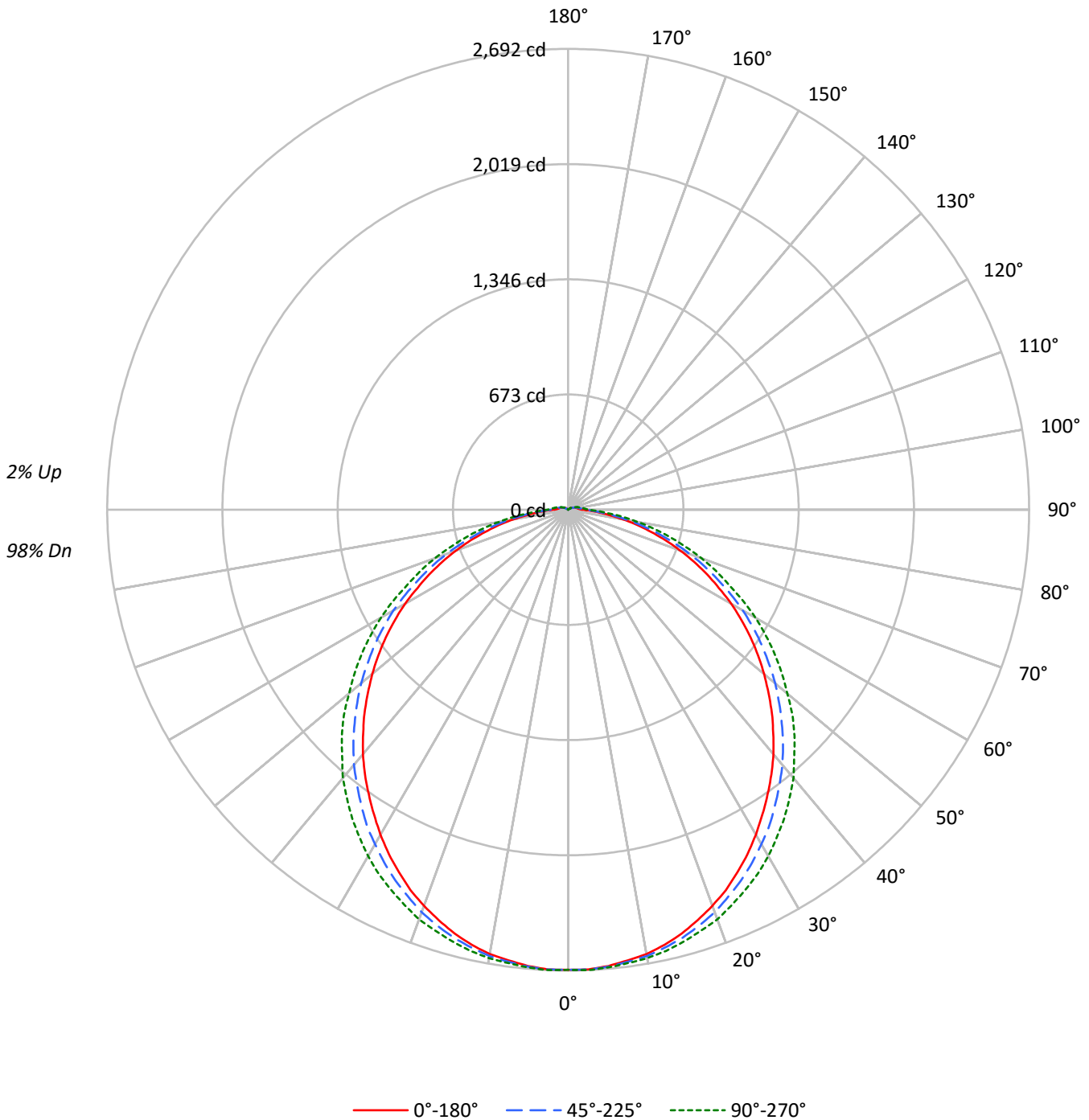
Lumens per Lamp: N/A  
Luminaire Lumens: 7961.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 66.8  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98	
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	87	85	83	81	
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	76	73	69	67	
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	67	62	58	56	
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	60	55	50	48	
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	54	48	44	41	
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	49	43	38	36	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	45	39	34	32	
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	41	35	30	28	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	38	32	27	26	
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	35	29	25	23	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7233	7233	7233
5°	7202	7202	7224
10°	7149	7160	7215
15°	7061	7095	7195
20°	6945	7016	7184
25°	6806	6905	7136
30°	6650	6780	7091
35°	6480	6647	7021
40°	6329	6512	6946
45°	6149	6339	6827
50°	5956	6173	6664
55°	5755	5973	6524
60°	5531	5755	6342
65°	5237	5431	6039
70°	4901	5111	5841
75°	4504	4679	5521
80°	4048	4173	5161
85°	3631	3724	4897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.6	3.2
10°-20°	729.8	9.2
20°-30°	1101.8	13.8
30°-40°	1320.1	16.6
40°-50°	1364.9	17.1
50°-60°	1236.0	15.5
60°-70°	956.4	12.0
70°-80°	587.5	7.4
80°-90°	233.5	2.9
90°-100°	85.2	1.1
100°-110°	52.3	0.7
110°-120°	26.9	0.3
120°-130°	11.5	0.1
130°-140°	0.8	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°	2086.1	26.2
0°-40°	3406.2	42.8
0°-60°	6007.1	75.5
0°-90°	7784.5	97.8
90°-120°	164.4	2.1
90°-150°	176.7	2.2
90°-180°	177.0	2.2
0°-180°	7961.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2688	2688	2688	2688	2688	
5°	2676	2676	2680	2680	2684	254
15°	2563	2567	2587	2603	2611	722
25°	2337	2353	2389	2430	2450	1077
35°	2030	2054	2107	2163	2200	1271
45°	1683	1703	1764	1836	1869	1297
55°	1300	1328	1380	1441	1473	1161
65°	896	916	961	1009	1033	886
75°	500	525	549	585	614	533
85°	174	186	202	222	234	173
90°	81	93	101	113	121	48
95°	60	69	77	85	93	48
105°	44	44	48	52	56	47
115°	28	24	24	28	32	29
125°	16	12	8	12	16	15
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°	2688.0	2688.0	2688.0	2688.0	2688.0
2.5°	2688.0	2684.0	2688.0	2688.0	2692.1
5°	2675.9	2675.9	2680.0	2680.0	2684.0
7.5°	2655.7	2655.7	2663.8	2667.9	2671.9
10°	2635.6	2635.6	2647.7	2651.7	2659.8
12.5°	2603.3	2607.3	2619.4	2631.5	2639.6
15°	2562.9	2567.0	2587.1	2603.3	2611.3
17.5°	2514.5	2522.6	2546.8	2571.0	2579.1
20°	2462.0	2474.1	2502.4	2530.6	2546.8
22.5°	2405.5	2413.6	2445.9	2482.2	2498.3
25°	2336.9	2353.0	2389.4	2429.7	2449.9
27.5°	2268.3	2284.4	2324.8	2373.2	2397.4
30°	2191.6	2207.7	2256.2	2308.6	2336.9
32.5°	2110.9	2131.1	2187.6	2240.0	2268.3
35°	2030.2	2054.4	2106.8	2163.3	2199.7
37.5°	1949.4	1969.6	2026.1	2086.7	2123.0
40°	1864.7	1884.9	1945.4	2005.9	2046.3
42.5°	1771.8	1796.1	1856.6	1921.2	1953.5
45°	1683.0	1703.2	1763.8	1836.4	1868.7
47.5°	1586.2	1614.4	1670.9	1739.6	1775.9
50°	1493.4	1517.6	1578.1	1642.7	1670.9
52.5°	1396.5	1420.7	1477.2	1541.8	1574.1
55°	1299.6	1327.9	1380.3	1440.9	1473.2
57.5°	1198.7	1227.0	1279.4	1331.9	1368.2
60°	1101.9	1130.1	1178.5	1231.0	1263.3
62.5°	992.9	1017.1	1069.6	1126.1	1150.3
65°	896.0	916.2	960.6	1009.0	1033.2
67.5°	795.1	819.3	859.7	904.1	932.3
70°	694.2	722.5	754.7	795.1	827.4
72.5°	597.3	621.6	649.8	690.2	718.4
75°	500.5	524.7	548.9	585.2	613.5
77.5°	415.7	427.8	452.0	484.3	512.6
80°	322.9	339.0	359.2	391.5	411.7
82.5°	242.2	258.3	274.5	298.7	318.9
85°	173.6	185.7	201.8	222.0	234.1
87.5°	117.0	129.2	141.3	157.4	169.5
90°	80.7	92.8	100.9	113.0	121.1
92.5°	68.6	76.7	84.8	92.8	100.9
95°	60.5	68.6	76.7	84.8	92.8
97.5°	56.5	60.5	68.6	76.7	80.7
100°	52.5	56.5	60.5	68.6	72.6
102.5°	48.4	48.4	56.5	60.5	64.6
105°	44.4	44.4	48.4	52.5	56.5
107.5°	40.4	40.4	44.4	44.4	52.5
110°	36.3	32.3	36.3	36.3	44.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.3	28.3	32.3	32.3	36.3
115°	28.3	24.2	24.2	28.3	32.3
117.5°	24.2	20.2	20.2	20.2	28.3
120°	24.2	20.2	16.1	16.1	24.2
122.5°	20.2	16.1	12.1	16.1	20.2
125°	16.1	12.1	8.1	12.1	16.1
127.5°	12.1	12.1	4.0	8.1	12.1
130°	12.1	8.1	4.0	8.1	8.1
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)