

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: P383873

Luminaire Tested: **24ID-75-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-75-L850-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

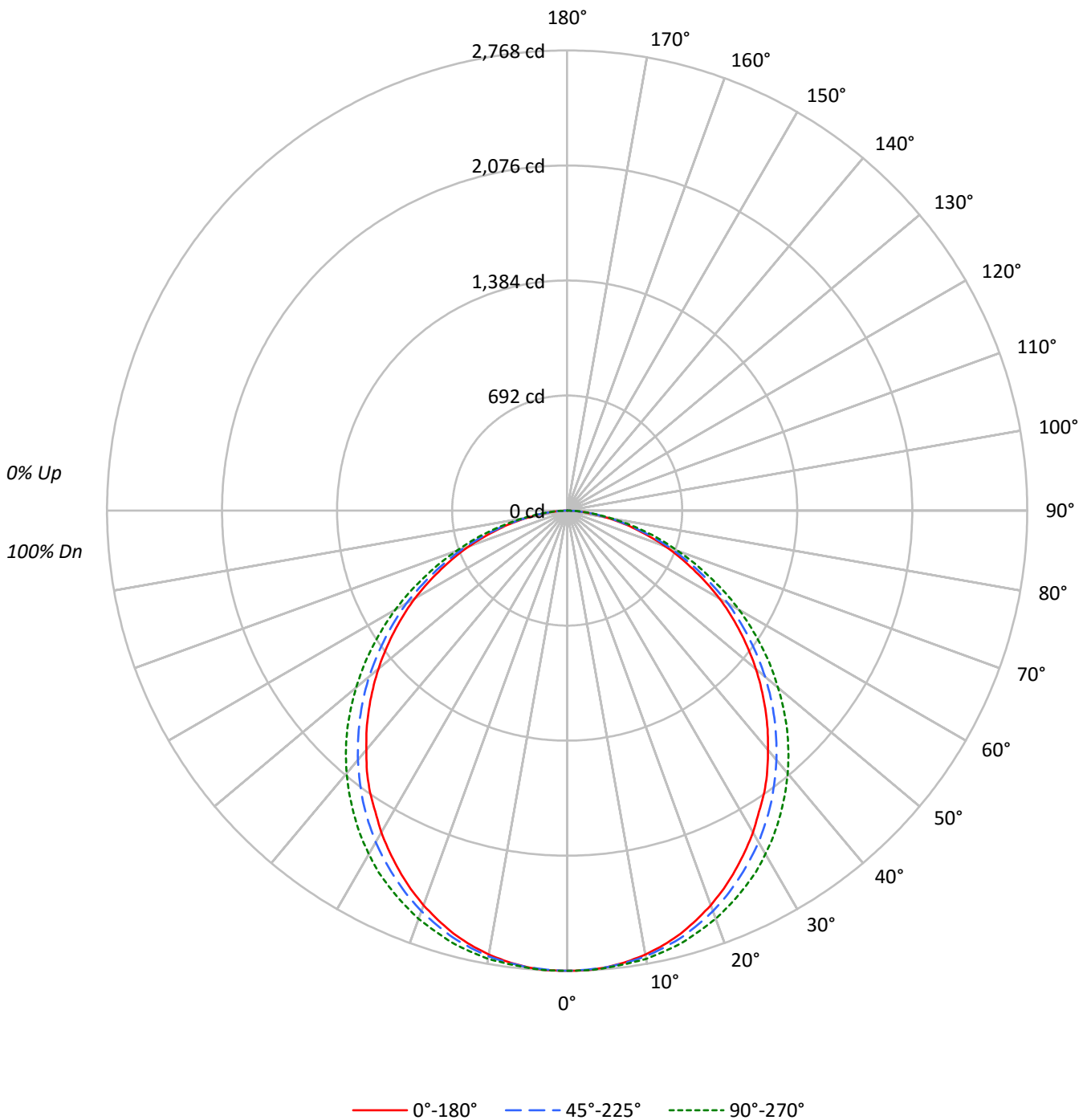
Lumens per Lamp: N/A  
Luminaire Lumens: 7517.7 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.8  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	3724	3724	3724
5°	3723	3723	3728
10°	3704	3720	3741
15°	3671	3703	3745
20°	3617	3671	3741
25°	3548	3627	3728
30°	3472	3578	3707
35°	3398	3516	3671
40°	3301	3440	3626
45°	3209	3353	3562
50°	3103	3253	3467
55°	2981	3131	3353
60°	2849	3002	3216
65°	2661	2817	3010
70°	2469	2603	2782
75°	2202	2320	2516
80°	1846	1934	2110
85°	1402	1402	1576



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.0	3.5
10°-20°	749.6	10.0
20°-30°	1127.2	15.0
30°-40°	1340.9	17.8
40°-50°	1364.4	18.1
50°-60°	1200.7	16.0
60°-70°	880.8	11.7
70°-80°	478.1	6.4
80°-90°	114.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2138.8	28.4
0°-40°	3479.6	46.3
0°-60°	6044.7	80.4
0°-90°	7517.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7517.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2768	2768	2768	2768	2768	
5°	2757	2753	2757	2757	2760	262
15°	2636	2640	2658	2674	2689	742
25°	2390	2405	2443	2484	2511	1101
35°	2068	2084	2140	2205	2235	1292
45°	1687	1702	1762	1838	1872	1300
55°	1271	1290	1335	1399	1429	1136
65°	836	851	885	923	945	831
75°	424	431	446	469	484	450
85°	91	91	91	98	102	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2768.1	2768.1	2768.1	2768.1	2768.1
2.5°	2768.1	2764.3	2764.3	2764.3	2768.1
5°	2756.7	2753.0	2756.7	2756.7	2760.5
7.5°	2737.8	2734.0	2741.6	2745.4	2749.2
10°	2711.4	2711.4	2722.7	2730.3	2737.8
12.5°	2677.3	2681.1	2692.4	2703.8	2715.1
15°	2635.7	2639.5	2658.4	2673.5	2688.7
17.5°	2582.8	2590.3	2613.0	2635.7	2650.9
20°	2526.1	2537.4	2563.9	2594.1	2613.0
22.5°	2461.8	2476.9	2507.2	2545.0	2563.9
25°	2389.9	2405.1	2442.9	2484.5	2510.9
27.5°	2314.3	2333.2	2374.8	2424.0	2454.2
30°	2234.9	2253.8	2303.0	2355.9	2386.1
32.5°	2147.9	2170.6	2223.5	2284.0	2314.3
35°	2068.5	2083.6	2140.3	2204.6	2234.9
37.5°	1977.7	1996.6	2049.6	2117.7	2151.7
40°	1879.4	1898.3	1958.8	2026.9	2064.7
42.5°	1784.9	1800.0	1860.5	1936.1	1970.2
45°	1686.6	1701.7	1762.2	1837.8	1871.9
47.5°	1584.5	1603.4	1660.1	1731.9	1766.0
50°	1482.4	1497.5	1554.2	1622.3	1656.3
52.5°	1376.5	1391.6	1444.5	1512.6	1546.6
55°	1270.6	1289.5	1334.9	1399.2	1429.4
57.5°	1164.7	1183.6	1225.2	1285.7	1312.2
60°	1058.8	1074.0	1115.6	1168.5	1195.0
62.5°	945.4	956.7	998.3	1051.3	1074.0
65°	835.7	850.8	884.9	922.7	945.4
67.5°	733.6	741.2	771.4	813.0	828.2
70°	627.7	635.3	661.8	695.8	707.1
72.5°	521.9	533.2	552.1	582.4	597.5
75°	423.5	431.1	446.2	468.9	484.0
77.5°	329.0	332.8	344.1	363.0	374.4
80°	238.2	242.0	249.6	264.7	272.3
82.5°	158.8	162.6	166.4	174.0	181.5
85°	90.8	90.8	90.8	98.3	102.1
87.5°	34.0	30.3	30.3	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)