

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: P383880

Luminaire Tested: **24ID-85-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383880  
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-85-L840-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

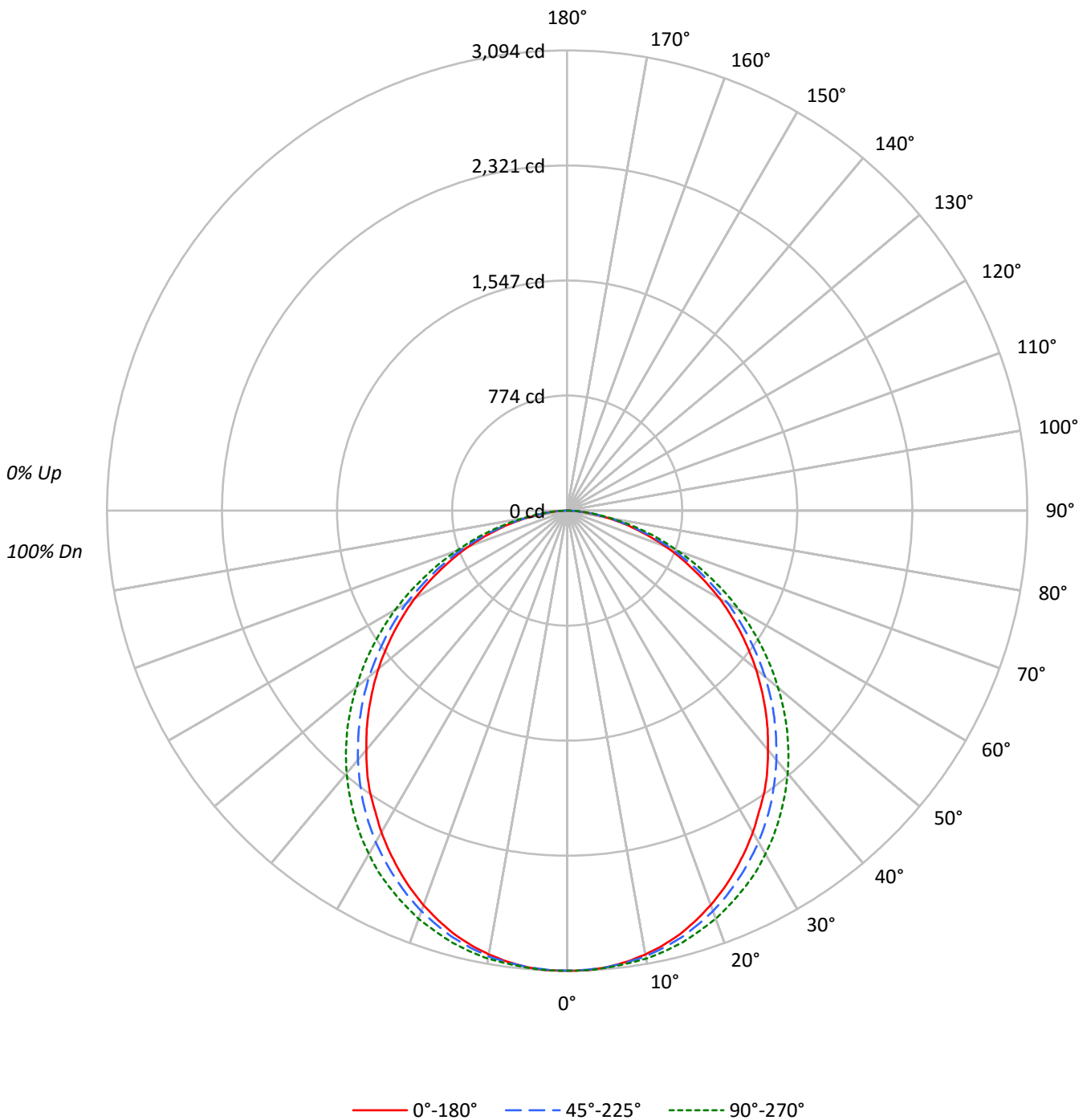
Lumens per Lamp: N/A  
Luminaire Lumens: 8402.2 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 82.4  
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°	4163	4163	4163
5°	4161	4161	4167
10°	4140	4157	4181
15°	4103	4139	4186
20°	4043	4103	4182
25°	3965	4053	4166
30°	3881	3999	4143
35°	3797	3929	4103
40°	3689	3845	4053
45°	3587	3748	3981
50°	3468	3636	3875
55°	3331	3500	3748
60°	3185	3355	3594
65°	2974	3149	3364
70°	2760	2910	3109
75°	2461	2593	2812
80°	2063	2161	2358
85°	1565	1565	1761



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.8	3.5
10°-20°	837.8	10.0
20°-30°	1259.8	15.0
30°-40°	1498.6	17.8
40°-50°	1524.9	18.1
50°-60°	1342.0	16.0
60°-70°	984.4	11.7
70°-80°	534.3	6.4
80°-90°	127.5	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°	2390.4	28.4
0°-40°	3889.0	46.3
0°-60°	6755.9	80.4
0°-90°	8402.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8402.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3094	3094	3094	3094	3094	
5°	3081	3077	3081	3081	3085	292
15°	2946	2950	2971	2988	3005	830
25°	2671	2688	2730	2777	2806	1230
35°	2312	2329	2392	2464	2498	1444
45°	1885	1902	1970	2054	2092	1453
55°	1420	1441	1492	1564	1598	1270
65°	934	951	989	1031	1057	928
75°	473	482	499	524	541	503
85°	101	101	101	110	114	122
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3093.8	3093.8	3093.8	3093.8	3093.8
2.5°	3093.8	3089.5	3089.5	3089.5	3093.8
5°	3081.1	3076.9	3081.1	3081.1	3085.3
7.5°	3059.9	3055.7	3064.2	3068.4	3072.6
10°	3030.4	3030.4	3043.0	3051.5	3059.9
12.5°	2992.3	2996.6	3009.2	3021.9	3034.6
15°	2945.8	2950.1	2971.2	2988.1	3005.0
17.5°	2886.7	2895.1	2920.5	2945.8	2962.7
20°	2823.3	2835.9	2865.5	2899.3	2920.5
22.5°	2751.4	2768.3	2802.1	2844.4	2865.5
25°	2671.1	2688.0	2730.3	2776.8	2806.4
27.5°	2586.6	2607.7	2654.2	2709.2	2743.0
30°	2497.8	2519.0	2573.9	2633.1	2666.9
32.5°	2400.6	2426.0	2485.2	2552.8	2586.6
35°	2311.9	2328.8	2392.2	2464.0	2497.8
37.5°	2210.4	2231.6	2290.7	2366.8	2404.8
40°	2100.5	2121.7	2189.3	2265.4	2307.6
42.5°	1994.9	2011.8	2079.4	2163.9	2202.0
45°	1885.0	1901.9	1969.5	2054.1	2092.1
47.5°	1770.9	1792.0	1855.4	1935.7	1973.8
50°	1656.8	1673.7	1737.1	1813.1	1851.2
52.5°	1538.4	1555.3	1614.5	1690.6	1728.6
55°	1420.1	1441.2	1491.9	1563.8	1597.6
57.5°	1301.7	1322.9	1369.4	1437.0	1466.6
60°	1183.4	1200.3	1246.8	1306.0	1335.6
62.5°	1056.6	1069.3	1115.8	1175.0	1200.3
65°	934.0	951.0	989.0	1031.3	1056.6
67.5°	819.9	828.4	862.2	908.7	925.6
70°	701.6	710.0	739.6	777.7	790.3
72.5°	583.2	595.9	617.1	650.9	667.8
75°	473.4	481.8	498.7	524.1	541.0
77.5°	367.7	371.9	384.6	405.7	418.4
80°	266.3	270.5	278.9	295.9	304.3
82.5°	177.5	181.7	186.0	194.4	202.9
85°	101.4	101.4	101.4	109.9	114.1
87.5°	38.0	33.8	33.8	33.8	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)