

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: P384044

Luminaire Tested: **24ID-80-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-80-L840-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

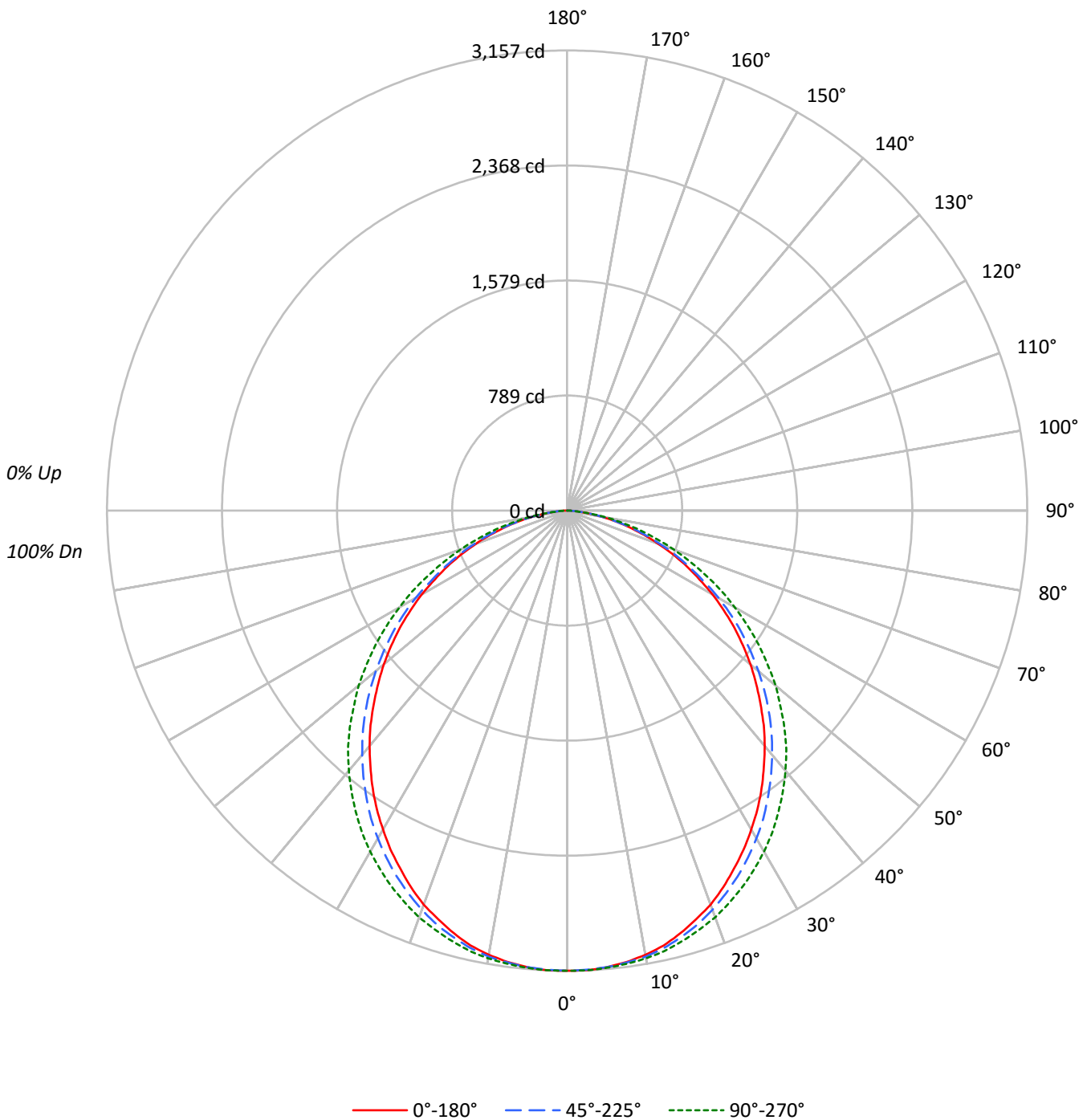
Lumens per Lamp: N/A  
Luminaire Lumens: 8334.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 77  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P384044  
CATALOG NUMBER: 24ID-80-L840-CFR2

### Luminous Intensity Polar Plot





TEST NUMBER: P384044

CATALOG NUMBER: 24ID-80-L840-CFR2

**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	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	4248	4248	4248
5°	4247	4247	4253
10°	4228	4245	4262
15°	4182	4217	4258
20°	4120	4174	4251
25°	4024	4110	4228
30°	3925	4035	4198
35°	3821	3944	4150
40°	3704	3843	4093
45°	3568	3727	4013
50°	3435	3584	3907
55°	3282	3429	3762
60°	3102	3236	3574
65°	2885	2978	3337
70°	2612	2710	3055
75°	2280	2366	2670
80°	1844	1877	2103
85°	1096	1224	1031



TEST NUMBER: P384044

CATALOG NUMBER: 24ID-80-L840-CFR2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.9	3.6
10°-20°	854.2	10.2
20°-30°	1277.8	15.3
30°-40°	1509.7	18.1
40°-50°	1523.4	18.3
50°-60°	1322.9	15.9
60°-70°	948.6	11.4
70°-80°	494.2	5.9
80°-90°	104.3	1.3
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°	2430.9	29.2
0°-40°	3940.6	47.3
0°-60°	6786.9	81.4
0°-90°	8334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8334.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3157	3157	3157	3157	3157	
5°	3144	3140	3144	3144	3149	299
15°	3002	3007	3028	3048	3057	846
25°	2710	2727	2769	2823	2848	1249
35°	2326	2343	2401	2489	2526	1454
45°	1875	1896	1958	2059	2109	1448
55°	1399	1412	1462	1558	1604	1249
65°	906	902	935	1006	1048	896
75°	438	434	455	489	514	468
85°	71	79	79	71	67	102
90°	0	0	0	0	0	



TEST NUMBER: P384044

CATALOG NUMBER: 24ID-80-L840-CFR2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3157.0	3157.0	3157.0	3157.0	3157.0
2.5°	3157.0	3152.9	3152.9	3152.9	3157.0
5°	3144.5	3140.3	3144.5	3144.5	3148.7
7.5°	3123.6	3119.4	3127.8	3132.0	3136.1
10°	3094.4	3094.4	3106.9	3115.3	3119.4
12.5°	3056.8	3056.8	3073.5	3086.0	3094.4
15°	3002.5	3006.7	3027.6	3048.5	3056.8
17.5°	2939.9	2952.4	2977.5	3006.7	3015.0
20°	2877.2	2885.6	2914.8	2952.4	2969.1
22.5°	2797.9	2810.4	2843.8	2893.9	2910.6
25°	2710.2	2726.9	2768.7	2823.0	2848.0
27.5°	2622.5	2635.0	2685.1	2747.8	2777.0
30°	2526.5	2543.2	2597.4	2668.4	2701.8
32.5°	2430.4	2442.9	2505.6	2580.7	2618.3
35°	2326.0	2342.7	2401.2	2488.9	2526.5
37.5°	2217.4	2238.3	2296.8	2388.7	2430.4
40°	2108.9	2121.4	2188.2	2280.1	2330.2
42.5°	1996.1	2012.8	2075.5	2175.7	2225.8
45°	1875.0	1895.9	1958.5	2058.8	2108.9
47.5°	1758.1	1779.0	1837.4	1937.6	1983.6
50°	1641.2	1653.7	1712.1	1812.4	1866.7
52.5°	1520.1	1532.6	1586.9	1682.9	1733.0
55°	1398.9	1411.5	1461.6	1557.6	1603.6
57.5°	1273.7	1282.0	1332.1	1419.8	1465.8
60°	1152.6	1156.7	1202.7	1282.0	1328.0
62.5°	1023.1	1027.3	1060.7	1152.6	1194.3
65°	906.2	902.0	935.4	1006.4	1048.2
67.5°	785.1	785.1	814.3	877.0	910.4
70°	664.0	664.0	689.0	743.3	776.7
72.5°	551.2	551.2	572.1	613.9	638.9
75°	438.5	434.3	455.2	488.6	513.6
77.5°	334.1	334.1	342.4	371.7	388.4
80°	238.0	238.0	242.2	258.9	271.4
82.5°	150.3	150.3	150.3	158.7	162.9
85°	71.0	79.3	79.3	71.0	66.8
87.5°	33.4	33.4	29.2	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)