

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: P383879

Luminaire Tested: **24ID-85-L835-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383879  
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-L835-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

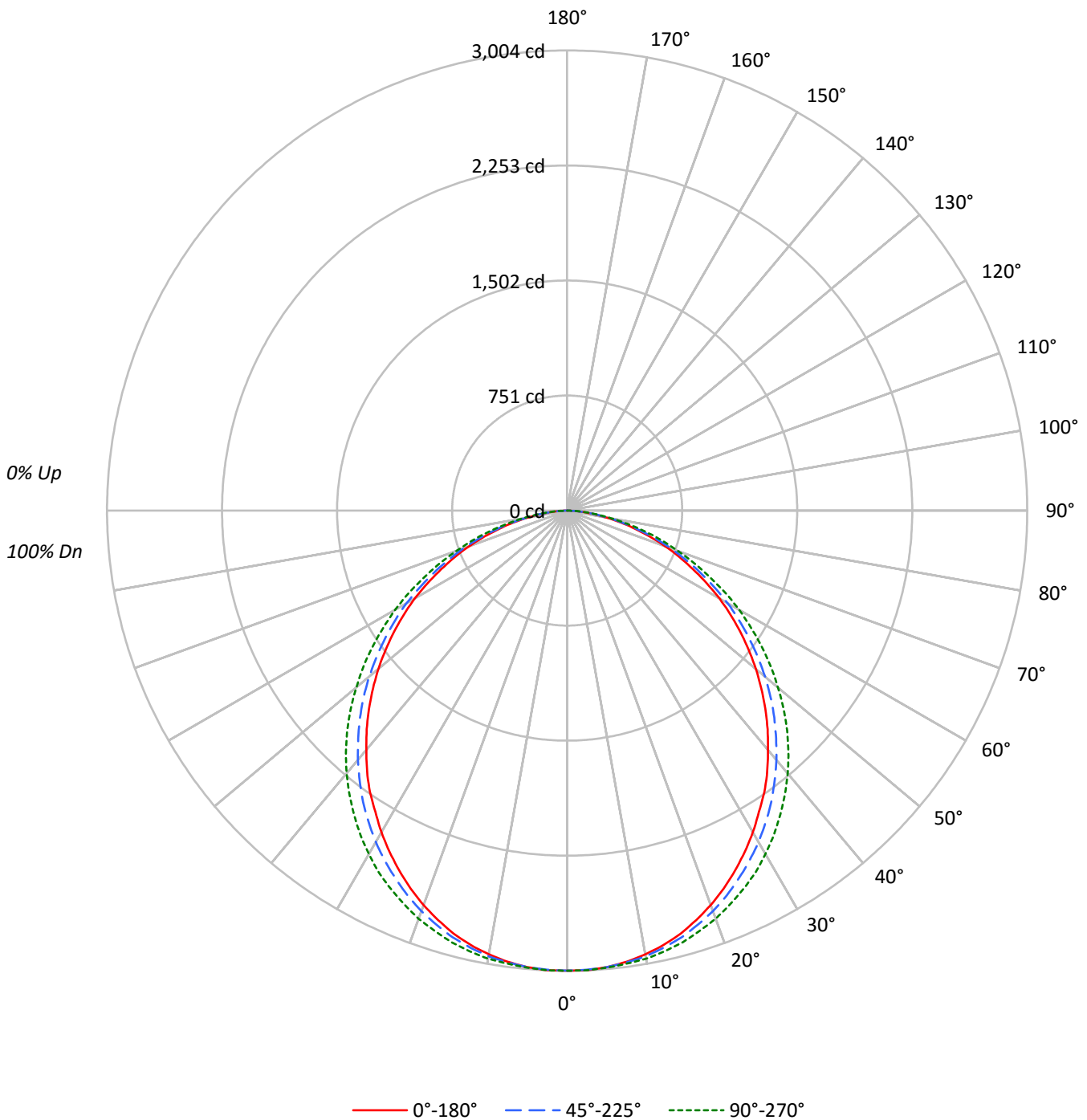
Lumens per Lamp: N/A  
Luminaire Lumens: 8157.4 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 82  
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°	4041	4041	4041
5°	4040	4040	4046
10°	4020	4036	4059
15°	3984	4018	4064
20°	3925	3983	4060
25°	3850	3935	4045
30°	3768	3882	4023
35°	3687	3815	3983
40°	3582	3733	3935
45°	3482	3638	3865
50°	3367	3530	3762
55°	3234	3398	3639
60°	3092	3257	3489
65°	2887	3057	3266
70°	2679	2825	3019
75°	2389	2517	2730
80°	2003	2098	2289
85°	1521	1521	1711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.3	3.5
10°-20°	813.4	10.0
20°-30°	1223.1	15.0
30°-40°	1455.0	17.8
40°-50°	1480.5	18.1
50°-60°	1302.9	16.0
60°-70°	955.7	11.7
70°-80°	518.8	6.4
80°-90°	123.8	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°	2320.8	28.4
0°-40°	3775.7	46.3
0°-60°	6559.1	80.4
0°-90°	8157.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8157.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3004	3004	3004	3004	3004	
5°	2991	2987	2991	2991	2995	284
15°	2860	2864	2885	2901	2918	806
25°	2593	2610	2651	2696	2725	1194
35°	2244	2261	2322	2392	2425	1401
45°	1830	1846	1912	1994	2031	1411
55°	1379	1399	1448	1518	1551	1233
65°	907	923	960	1001	1026	901
75°	460	468	484	509	525	488
85°	98	98	98	107	111	119
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3003.6	3003.6	3003.6	3003.6	3003.6
2.5°	3003.6	2999.5	2999.5	2999.5	3003.6
5°	2991.3	2987.2	2991.3	2991.3	2995.4
7.5°	2970.8	2966.7	2974.9	2979.0	2983.1
10°	2942.1	2942.1	2954.4	2962.6	2970.8
12.5°	2905.1	2909.2	2921.6	2933.9	2946.2
15°	2860.0	2864.1	2884.6	2901.0	2917.5
17.5°	2802.6	2810.8	2835.4	2860.0	2876.4
20°	2741.0	2753.3	2782.0	2814.9	2835.4
22.5°	2671.3	2687.7	2720.5	2761.5	2782.0
25°	2593.3	2609.7	2650.7	2695.9	2724.6
27.5°	2511.2	2531.7	2576.9	2630.2	2663.0
30°	2425.1	2445.6	2498.9	2556.4	2589.2
32.5°	2330.7	2355.3	2412.7	2478.4	2511.2
35°	2244.5	2260.9	2322.5	2392.2	2425.1
37.5°	2146.0	2166.5	2224.0	2297.9	2334.8
40°	2039.3	2059.9	2125.5	2199.4	2240.4
42.5°	1936.8	1953.2	2018.8	2100.9	2137.8
45°	1830.1	1846.5	1912.1	1994.2	2031.1
47.5°	1719.3	1739.8	1801.4	1879.3	1916.2
50°	1608.5	1624.9	1686.5	1760.3	1797.2
52.5°	1493.6	1510.0	1567.5	1641.3	1678.3
55°	1378.7	1399.2	1448.5	1518.2	1551.1
57.5°	1263.8	1284.3	1329.5	1395.1	1423.8
60°	1148.9	1165.3	1210.5	1267.9	1296.6
62.5°	1025.8	1038.1	1083.3	1140.7	1165.3
65°	906.8	923.2	960.2	1001.2	1025.8
67.5°	796.0	804.2	837.1	882.2	898.6
70°	681.1	689.4	718.1	755.0	767.3
72.5°	566.3	578.6	599.1	631.9	648.3
75°	459.6	467.8	484.2	508.8	525.2
77.5°	357.0	361.1	373.4	393.9	406.2
80°	258.5	262.6	270.8	287.2	295.4
82.5°	172.3	176.4	180.5	188.8	197.0
85°	98.5	98.5	98.5	106.7	110.8
87.5°	36.9	32.8	32.8	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)