

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: P384037

Luminaire Tested: **24ID-70-L850-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384037  
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-70-L850-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

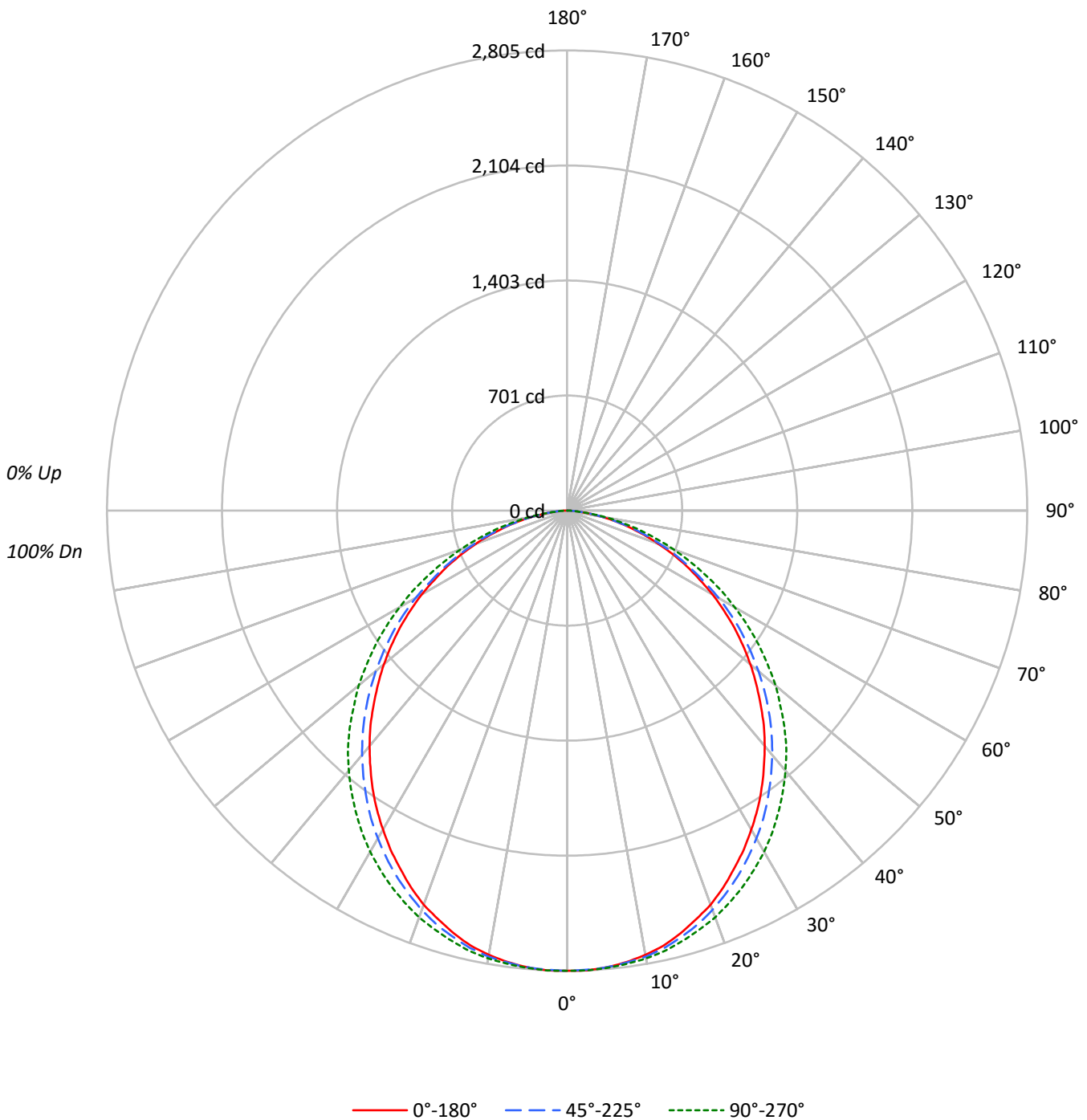
Lumens per Lamp: N/A  
Luminaire Lumens: 7405.8 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 65.7  
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	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°	3775	3775	3775
5°	3774	3774	3779
10°	3757	3772	3787
15°	3717	3748	3784
20°	3661	3709	3778
25°	3575	3653	3757
30°	3488	3586	3730
35°	3395	3505	3688
40°	3292	3415	3637
45°	3170	3312	3566
50°	3053	3185	3472
55°	2916	3047	3343
60°	2756	2876	3176
65°	2564	2646	2965
70°	2321	2409	2715
75°	2025	2103	2373
80°	1639	1667	1869
85°	974	1088	917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	3.6
10°-20°	759.1	10.2
20°-30°	1135.5	15.3
30°-40°	1341.5	18.1
40°-50°	1353.7	18.3
50°-60°	1175.6	15.9
60°-70°	843.0	11.4
70°-80°	439.2	5.9
80°-90°	92.7	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°	2160.1	29.2
0°-40°	3501.7	47.3
0°-60°	6031.0	81.4
0°-90°	7405.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7405.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2805	2805	2805	2805	2805	
5°	2794	2791	2794	2794	2798	265
15°	2668	2672	2690	2709	2716	752
25°	2408	2423	2460	2508	2531	1110
35°	2067	2082	2134	2212	2245	1292
45°	1666	1685	1740	1830	1874	1287
55°	1243	1254	1299	1384	1425	1110
65°	805	802	831	894	931	796
75°	390	386	404	434	456	416
85°	63	70	70	63	59	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2805.4	2805.4	2805.4	2805.4	2805.4
2.5°	2805.4	2801.7	2801.7	2801.7	2805.4
5°	2794.3	2790.6	2794.3	2794.3	2798.0
7.5°	2775.7	2772.0	2779.4	2783.1	2786.9
10°	2749.8	2749.8	2760.9	2768.3	2772.0
12.5°	2716.4	2716.4	2731.2	2742.3	2749.8
15°	2668.1	2671.8	2690.4	2708.9	2716.4
17.5°	2612.4	2623.6	2645.8	2671.8	2679.2
20°	2556.8	2564.2	2590.2	2623.6	2638.4
22.5°	2486.3	2497.4	2527.1	2571.6	2586.5
25°	2408.4	2423.2	2460.3	2508.5	2530.8
27.5°	2330.4	2341.6	2386.1	2441.7	2467.7
30°	2245.1	2259.9	2308.2	2371.2	2400.9
32.5°	2159.7	2170.9	2226.5	2293.3	2326.7
35°	2067.0	2081.8	2133.7	2211.7	2245.1
37.5°	1970.5	1989.0	2041.0	2122.6	2159.7
40°	1874.0	1885.1	1944.5	2026.1	2070.7
42.5°	1773.8	1788.6	1844.3	1933.4	1977.9
45°	1666.2	1684.7	1740.4	1829.5	1874.0
47.5°	1562.3	1580.8	1632.8	1721.8	1762.7
50°	1458.4	1469.5	1521.5	1610.5	1658.8
52.5°	1350.8	1361.9	1410.1	1495.5	1540.0
55°	1243.1	1254.3	1298.8	1384.2	1425.0
57.5°	1131.8	1139.2	1183.8	1261.7	1302.5
60°	1024.2	1027.9	1068.7	1139.2	1180.1
62.5°	909.2	912.9	942.6	1024.2	1061.3
65°	805.3	801.5	831.2	894.3	931.4
67.5°	697.6	697.6	723.6	779.3	809.0
70°	590.0	590.0	612.3	660.5	690.2
72.5°	489.8	489.8	508.4	545.5	567.8
75°	389.6	385.9	404.5	434.2	456.4
77.5°	296.9	296.9	304.3	330.3	345.1
80°	211.5	211.5	215.2	230.1	241.2
82.5°	133.6	133.6	133.6	141.0	144.7
85°	63.1	70.5	70.5	63.1	59.4
87.5°	29.7	29.7	26.0	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)