

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: P384040

Luminaire Tested: **24ID-75-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384040  
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-75-L840-CFR2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

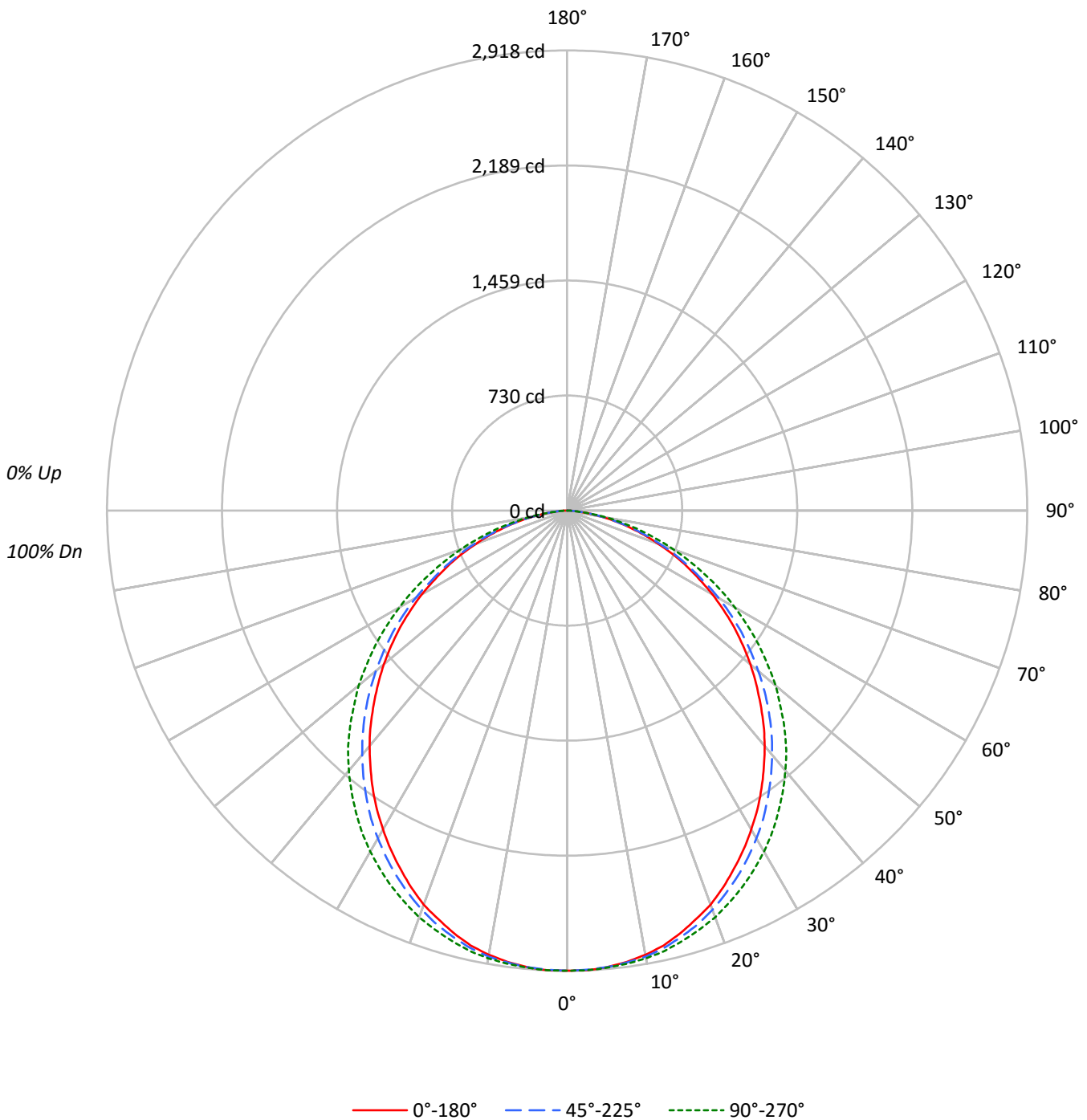
Lumens per Lamp: N/A  
Luminaire Lumens: 7702.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	3926	3926	3926
5°	3925	3925	3930
10°	3907	3923	3939
15°	3865	3897	3935
20°	3807	3857	3929
25°	3718	3799	3907
30°	3628	3730	3879
35°	3531	3645	3835
40°	3423	3552	3782
45°	3297	3444	3708
50°	3175	3312	3611
55°	3033	3168	3476
60°	2866	2991	3303
65°	2666	2752	3084
70°	2414	2505	2824
75°	2106	2187	2468
80°	1705	1734	1944
85°	1013	1132	953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.2	3.6
10°-20°	789.4	10.2
20°-30°	1180.9	15.3
30°-40°	1395.2	18.1
40°-50°	1407.8	18.3
50°-60°	1222.6	15.9
60°-70°	876.7	11.4
70°-80°	456.7	5.9
80°-90°	96.4	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°	2246.5	29.2
0°-40°	3641.7	47.3
0°-60°	6272.2	81.4
0°-90°	7702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2906	2902	2906	2906	2910	276
15°	2775	2779	2798	2817	2825	782
25°	2505	2520	2559	2609	2632	1154
35°	2150	2165	2219	2300	2335	1344
45°	1733	1752	1810	1903	1949	1338
55°	1293	1304	1351	1440	1482	1155
65°	838	834	864	930	969	828
75°	405	401	421	452	475	432
85°	66	73	73	66	62	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2917.6	2917.6	2917.6	2917.6	2917.6
2.5°	2917.6	2913.8	2913.8	2913.8	2917.6
5°	2906.0	2902.2	2906.0	2906.0	2909.9
7.5°	2886.7	2882.9	2890.6	2894.5	2898.3
10°	2859.7	2859.7	2871.3	2879.0	2882.9
12.5°	2825.0	2825.0	2840.4	2852.0	2859.7
15°	2774.8	2778.7	2798.0	2817.3	2825.0
17.5°	2716.9	2728.5	2751.7	2778.7	2786.4
20°	2659.0	2666.8	2693.8	2728.5	2744.0
22.5°	2585.7	2597.3	2628.2	2674.5	2689.9
25°	2504.7	2520.1	2558.7	2608.9	2632.0
27.5°	2423.6	2435.2	2481.5	2539.4	2566.4
30°	2334.9	2350.3	2400.5	2466.1	2497.0
32.5°	2246.1	2257.7	2315.6	2385.0	2419.8
35°	2149.6	2165.1	2219.1	2300.1	2334.9
37.5°	2049.3	2068.6	2122.6	2207.5	2246.1
40°	1948.9	1960.5	2022.3	2107.2	2153.5
42.5°	1844.7	1860.2	1918.1	2010.7	2057.0
45°	1732.8	1752.1	1810.0	1902.6	1948.9
47.5°	1624.8	1644.1	1698.1	1790.7	1833.2
50°	1516.7	1528.3	1582.3	1674.9	1725.1
52.5°	1404.8	1416.4	1466.5	1555.3	1601.6
55°	1292.9	1304.4	1350.7	1439.5	1482.0
57.5°	1177.1	1184.8	1231.1	1312.2	1354.6
60°	1065.2	1069.0	1111.5	1184.8	1227.3
62.5°	945.5	949.4	980.3	1065.2	1103.8
65°	837.5	833.6	864.5	930.1	968.7
67.5°	725.5	725.5	752.6	810.4	841.3
70°	613.6	613.6	636.8	687.0	717.8
72.5°	509.4	509.4	528.7	567.3	590.5
75°	405.2	401.4	420.7	451.5	474.7
77.5°	308.7	308.7	316.5	343.5	358.9
80°	220.0	220.0	223.8	239.3	250.9
82.5°	138.9	138.9	138.9	146.7	150.5
85°	65.6	73.3	73.3	65.6	61.7
87.5°	30.9	30.9	27.0	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)