

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: P385384

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-75-L840-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

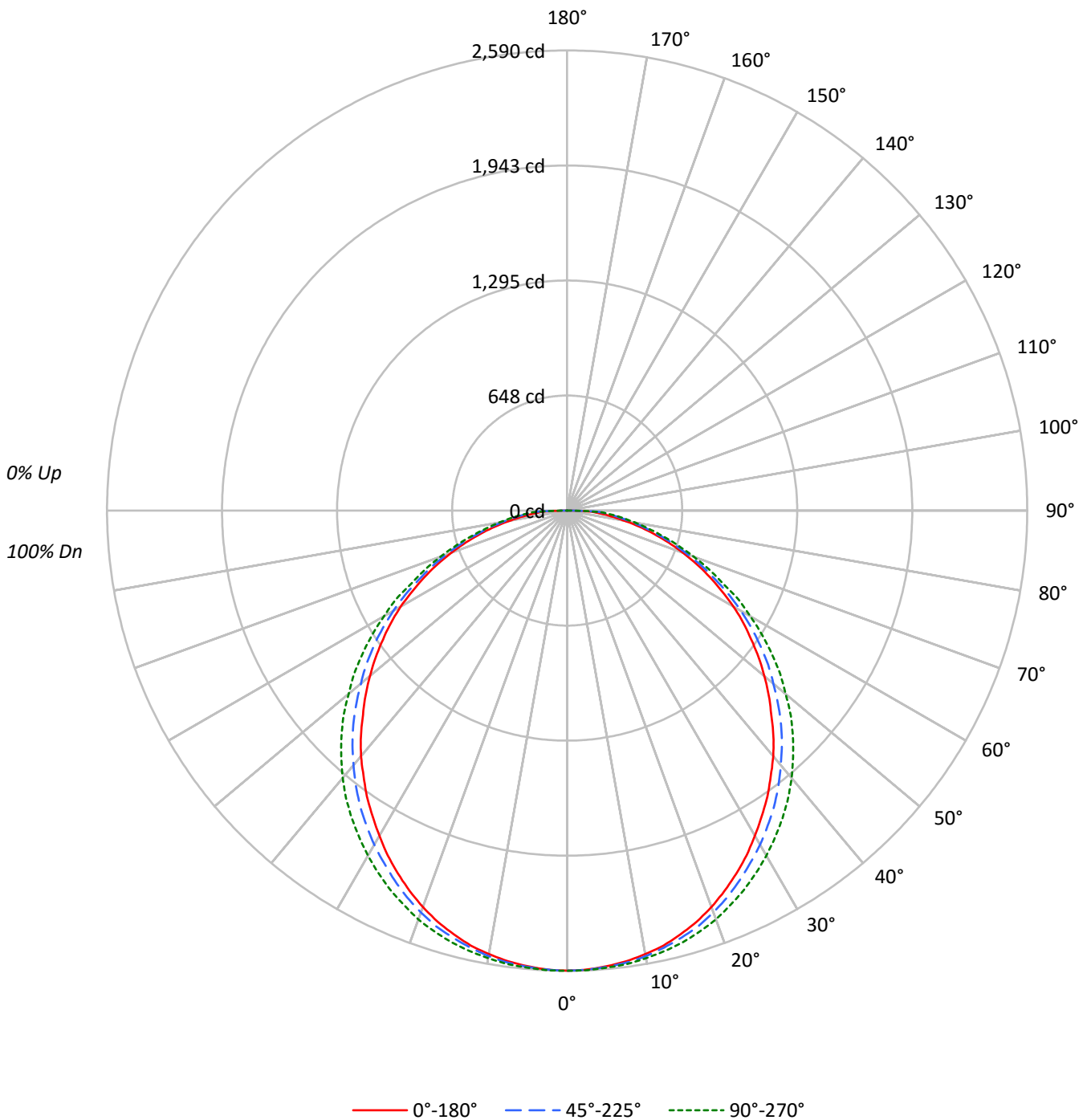
Lumens per Lamp: N/A  
Luminaire Lumens: 7511.5 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70.8  
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



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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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	3485	3485	3485
5°	3464	3455	3462
10°	3438	3426	3445
15°	3401	3386	3428
20°	3350	3338	3404
25°	3282	3275	3366
30°	3206	3210	3324
35°	3136	3142	3280
40°	3063	3060	3225
45°	2968	2977	3156
50°	2890	2870	3057
55°	2802	2766	2948
60°	2716	2635	2802
65°	2591	2467	2606
70°	2441	2287	2426
75°	2267	2092	2215
80°	2032	1895	2035
85°	1920	1800	1946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.0	3.3
10°-20°	702.2	9.3
20°-30°	1059.7	14.1
30°-40°	1272.0	16.9
40°-50°	1316.4	17.5
50°-60°	1192.6	15.9
60°-70°	918.8	12.2
70°-80°	568.5	7.6
80°-90°	236.1	3.1
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°	2007.0	26.7
0°-40°	3279.0	43.7
0°-60°	5788.0	77.1
0°-90°	7511.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7511.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2574	2574	2578	2578	2582	245
15°	2469	2473	2488	2504	2516	696
25°	2254	2262	2297	2336	2355	1038
35°	1965	1980	2031	2086	2113	1228
45°	1625	1648	1703	1766	1797	1257
55°	1266	1285	1328	1387	1406	1133
65°	887	894	922	961	965	877
75°	504	516	535	559	559	534
85°	184	203	234	250	246	198
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2589.8	2589.8	2589.8	2589.8	2589.8
2.5°	2585.9	2585.9	2585.9	2585.9	2589.8
5°	2574.2	2574.2	2578.1	2578.1	2582.0
7.5°	2558.6	2558.6	2566.4	2566.4	2574.2
10°	2535.1	2539.0	2546.8	2550.8	2558.6
12.5°	2507.8	2507.8	2519.5	2531.2	2539.0
15°	2468.7	2472.6	2488.3	2503.9	2515.6
17.5°	2425.8	2429.7	2453.1	2468.7	2484.3
20°	2375.0	2378.9	2406.2	2429.7	2449.2
22.5°	2316.4	2324.2	2355.4	2386.7	2402.3
25°	2253.9	2261.7	2296.8	2335.9	2355.4
27.5°	2187.5	2199.2	2234.3	2277.3	2300.8
30°	2113.3	2128.9	2171.8	2218.7	2242.2
32.5°	2039.0	2054.7	2101.5	2156.2	2179.7
35°	1964.8	1980.4	2031.2	2085.9	2113.3
37.5°	1882.8	1898.4	1953.1	2011.7	2042.9
40°	1804.7	1820.3	1871.1	1937.5	1964.8
42.5°	1718.7	1734.4	1789.0	1851.5	1882.8
45°	1625.0	1648.4	1703.1	1765.6	1796.9
47.5°	1539.0	1558.6	1609.4	1675.8	1707.0
50°	1449.2	1468.7	1515.6	1582.0	1605.4
52.5°	1359.4	1378.9	1425.8	1488.3	1511.7
55°	1265.6	1285.1	1328.1	1386.7	1406.2
57.5°	1175.8	1191.4	1230.5	1285.1	1300.8
60°	1082.0	1097.6	1128.9	1179.7	1191.4
62.5°	980.5	992.2	1027.3	1074.2	1089.8
65°	886.7	894.5	921.9	960.9	964.8
67.5°	789.1	796.9	824.2	851.6	863.3
70°	691.4	703.1	722.6	750.0	757.8
72.5°	597.6	609.4	628.9	652.3	656.2
75°	503.9	515.6	535.1	558.6	558.6
77.5°	414.1	425.8	449.2	468.7	468.7
80°	324.2	343.7	367.2	386.7	386.7
82.5°	250.0	265.6	296.9	312.5	312.5
85°	183.6	203.1	234.4	250.0	246.1
87.5°	132.8	152.3	179.7	191.4	187.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)