

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: P385172

Luminaire Tested: **22ID-85-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-85-L840-CNC  
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

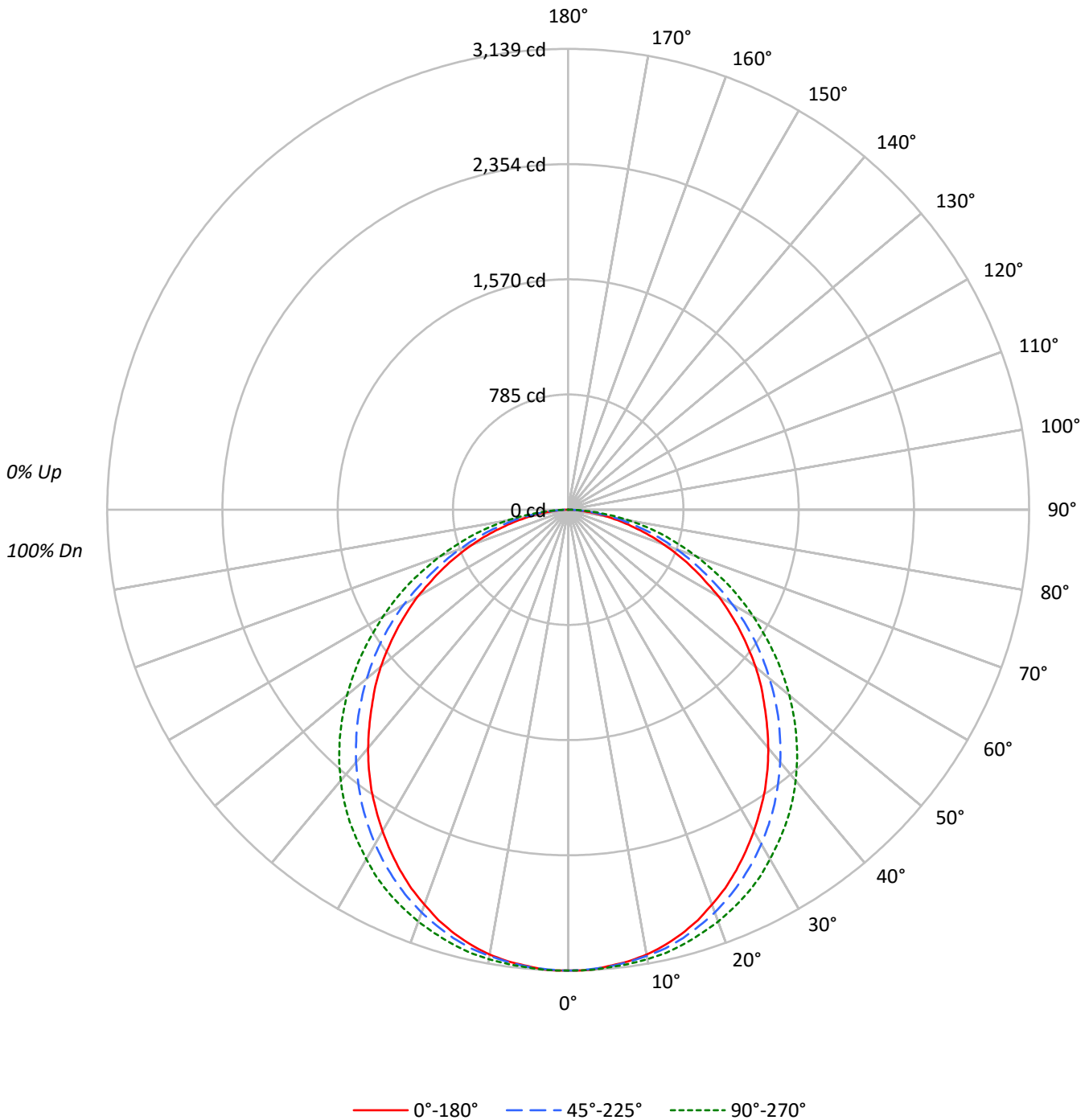
Lumens per Lamp: N/A  
Luminaire Lumens: 8716.4 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.1  
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	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	8448	8448	8448
5°	8433	8445	8456
10°	8410	8434	8494
15°	8330	8415	8525
20°	8197	8361	8550
25°	8042	8277	8564
30°	7856	8170	8539
35°	7670	8045	8522
40°	7445	7893	8464
45°	7195	7714	8366
50°	6976	7492	8228
55°	6684	7261	8045
60°	6365	6957	7833
65°	5935	6551	7615
70°	5466	6157	7299
75°	4846	5714	6994
80°	4088	5111	6473
85°	2986	3937	5159



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.2	3.4
10°-20°	852.5	9.8
20°-30°	1285.8	14.8
30°-40°	1535.1	17.6
40°-50°	1568.9	18.0
50°-60°	1391.2	16.0
60°-70°	1037.1	11.9
70°-80°	592.4	6.8
80°-90°	156.3	1.8
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°	2435.5	27.9
0°-40°	3970.6	45.6
0°-60°	6930.6	79.5
0°-90°	8716.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8716.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3139	3139	3139	3139	3139	
5°	3122	3122	3126	3126	3130	297
15°	2990	2999	3021	3047	3060	842
25°	2708	2730	2788	2849	2884	1247
35°	2335	2366	2449	2546	2594	1459
45°	1891	1930	2027	2137	2198	1461
55°	1425	1451	1548	1658	1715	1273
65°	932	954	1029	1134	1196	924
75°	466	488	550	633	673	497
85°	97	101	128	158	167	121
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3139.3	3139.3	3139.3	3139.3	3139.3
2.5°	3139.3	3134.9	3134.9	3134.9	3139.3
5°	3121.8	3121.8	3126.2	3126.2	3130.5
7.5°	3104.2	3104.2	3108.6	3113.0	3121.8
10°	3077.8	3077.8	3086.6	3099.8	3108.6
12.5°	3038.2	3042.6	3060.2	3077.8	3091.0
15°	2989.9	2998.6	3020.6	3047.0	3060.2
17.5°	2932.7	2941.5	2972.3	3007.4	3025.0
20°	2862.3	2879.9	2919.5	2963.5	2985.5
22.5°	2792.0	2809.6	2857.9	2910.7	2937.1
25°	2708.5	2730.4	2787.6	2849.2	2884.3
27.5°	2620.5	2646.9	2712.8	2783.2	2822.8
30°	2528.2	2559.0	2629.3	2708.5	2748.0
32.5°	2431.5	2462.2	2541.4	2629.3	2673.3
35°	2334.7	2365.5	2449.0	2545.8	2594.1
37.5°	2229.2	2260.0	2347.9	2453.4	2506.2
40°	2119.3	2154.5	2246.8	2352.3	2409.5
42.5°	2005.0	2044.5	2136.9	2251.2	2308.3
45°	1890.6	1930.2	2026.9	2136.9	2198.4
47.5°	1780.7	1811.5	1908.2	2022.5	2084.1
50°	1666.4	1692.8	1789.5	1903.8	1965.4
52.5°	1543.3	1578.5	1670.8	1785.1	1842.3
55°	1424.6	1451.0	1547.7	1657.6	1714.8
57.5°	1301.5	1327.8	1420.2	1530.1	1582.9
60°	1182.7	1209.1	1292.7	1402.6	1455.4
62.5°	1050.8	1077.2	1160.8	1275.1	1327.8
65°	932.1	954.1	1028.9	1134.4	1195.9
67.5°	813.4	835.4	905.7	1006.9	1055.2
70°	694.7	712.3	782.6	875.0	927.7
72.5°	580.4	598.0	668.3	751.9	795.8
75°	466.1	488.0	549.6	633.1	672.7
77.5°	360.5	382.5	435.3	510.0	545.2
80°	263.8	281.4	329.8	386.9	417.7
82.5°	175.9	189.1	224.2	272.6	294.6
85°	96.7	101.1	127.5	158.3	167.1
87.5°	39.6	39.6	48.4	52.8	57.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)