

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: P385168

Luminaire Tested: **22ID-80-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385168  
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-80-L840-CNC  
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

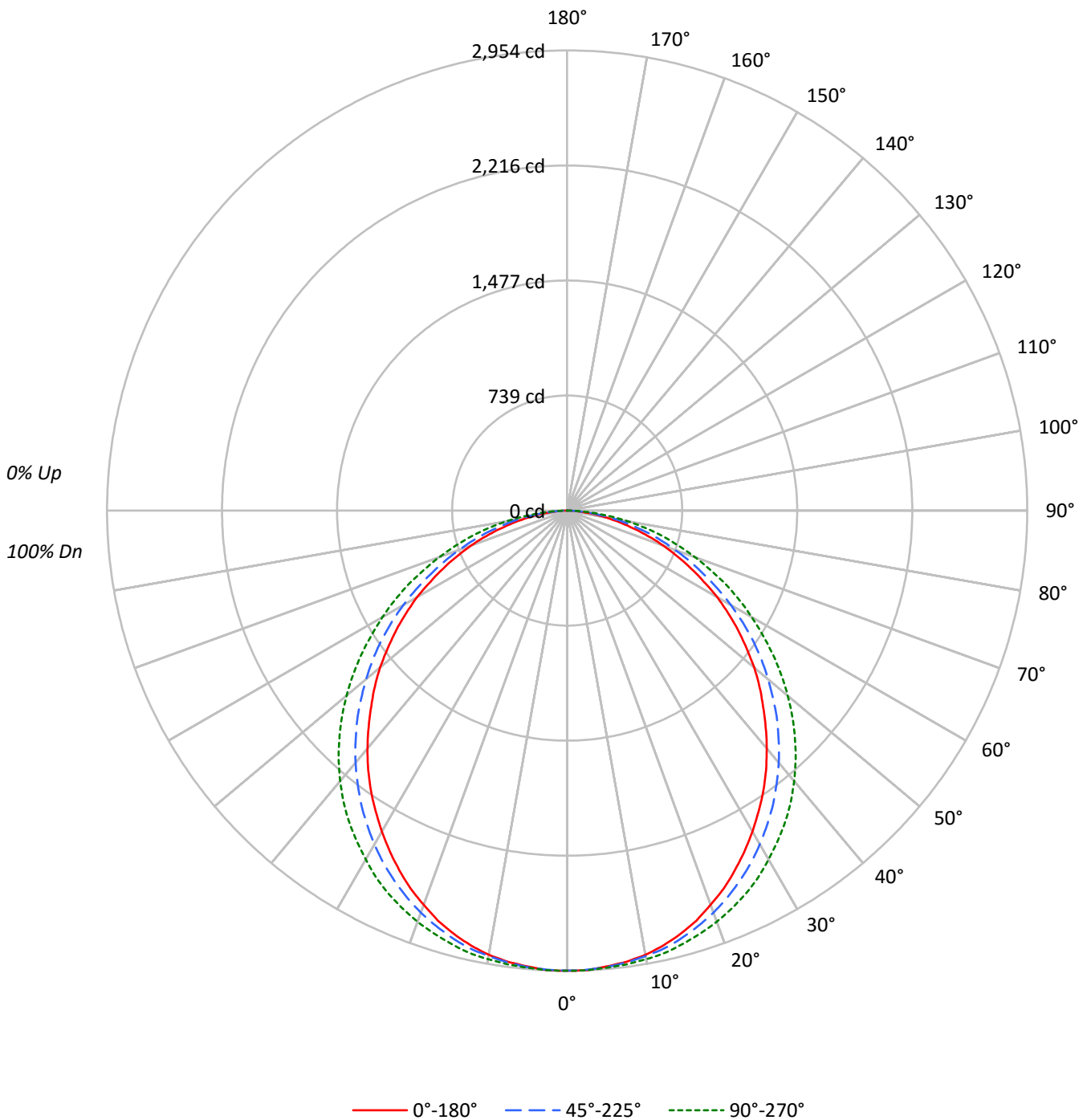
Lumens per Lamp: N/A  
Luminaire Lumens: 8201.1 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 71.8  
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	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°	7948	7948	7948
5°	7934	7945	7957
10°	7913	7935	7992
15°	7837	7918	8021
20°	7712	7866	8044
25°	7566	7788	8058
30°	7391	7687	8034
35°	7216	7570	8018
40°	7005	7426	7964
45°	6770	7258	7872
50°	6564	7049	7742
55°	6289	6832	7569
60°	5989	6546	7370
65°	5584	6164	7165
70°	5142	5794	6868
75°	4559	5376	6580
80°	3846	4809	6090
85°	2810	3705	4854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.6	3.4
10°-20°	802.1	9.8
20°-30°	1209.8	14.8
30°-40°	1444.3	17.6
40°-50°	1476.1	18.0
50°-60°	1308.9	16.0
60°-70°	975.7	11.9
70°-80°	557.4	6.8
80°-90°	147.0	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°	2291.5	27.9
0°-40°	3735.9	45.6
0°-60°	6520.9	79.5
0°-90°	8201.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8201.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2954	2954	2954	2954	2954	
5°	2937	2937	2941	2941	2946	279
15°	2813	2821	2842	2867	2879	793
25°	2548	2569	2623	2681	2714	1173
35°	2197	2226	2304	2395	2441	1372
45°	1779	1816	1907	2010	2068	1374
55°	1340	1365	1456	1560	1613	1198
65°	877	898	968	1067	1125	869
75°	438	459	517	596	633	468
85°	91	95	120	149	157	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2953.7	2953.7	2953.7	2953.7	2953.7
2.5°	2953.7	2949.6	2949.6	2949.6	2953.7
5°	2937.2	2937.2	2941.3	2941.3	2945.5
7.5°	2920.7	2920.7	2924.8	2928.9	2937.2
10°	2895.8	2895.8	2904.1	2916.5	2924.8
12.5°	2858.6	2862.7	2879.3	2895.8	2908.2
15°	2813.1	2821.4	2842.1	2866.9	2879.3
17.5°	2759.3	2767.6	2796.5	2829.6	2846.2
20°	2693.1	2709.7	2746.9	2788.3	2809.0
22.5°	2626.9	2643.5	2689.0	2738.6	2763.5
25°	2548.3	2569.0	2622.8	2680.7	2713.8
27.5°	2465.6	2490.4	2552.5	2618.7	2655.9
30°	2378.7	2407.7	2473.9	2548.3	2585.6
32.5°	2287.7	2316.7	2391.1	2473.9	2515.2
35°	2196.7	2225.7	2304.3	2395.3	2440.8
37.5°	2097.4	2126.4	2209.1	2308.4	2358.0
40°	1994.0	2027.1	2114.0	2213.2	2267.0
42.5°	1886.4	1923.7	2010.5	2118.1	2171.9
45°	1778.9	1816.1	1907.1	2010.5	2068.5
47.5°	1675.4	1704.4	1795.4	1903.0	1960.9
50°	1567.9	1592.7	1683.7	1791.3	1849.2
52.5°	1452.1	1485.1	1572.0	1679.6	1733.4
55°	1340.4	1365.2	1456.2	1559.6	1613.4
57.5°	1224.5	1249.3	1336.2	1439.6	1489.3
60°	1112.8	1137.6	1216.2	1319.7	1369.3
62.5°	988.7	1013.5	1092.1	1199.7	1249.3
65°	877.0	897.7	968.0	1067.3	1125.2
67.5°	765.3	786.0	852.2	947.4	992.9
70°	653.6	670.2	736.4	823.2	872.9
72.5°	546.1	562.6	628.8	707.4	748.8
75°	438.5	459.2	517.1	595.7	632.9
77.5°	339.2	359.9	409.6	479.9	513.0
80°	248.2	264.8	310.3	364.0	393.0
82.5°	165.5	177.9	211.0	256.5	277.2
85°	91.0	95.1	120.0	148.9	157.2
87.5°	37.2	37.2	45.5	49.6	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)