

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: P383992

Luminaire Tested: **22ID-80-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383992  
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: 22ID-80-L840-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8259.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

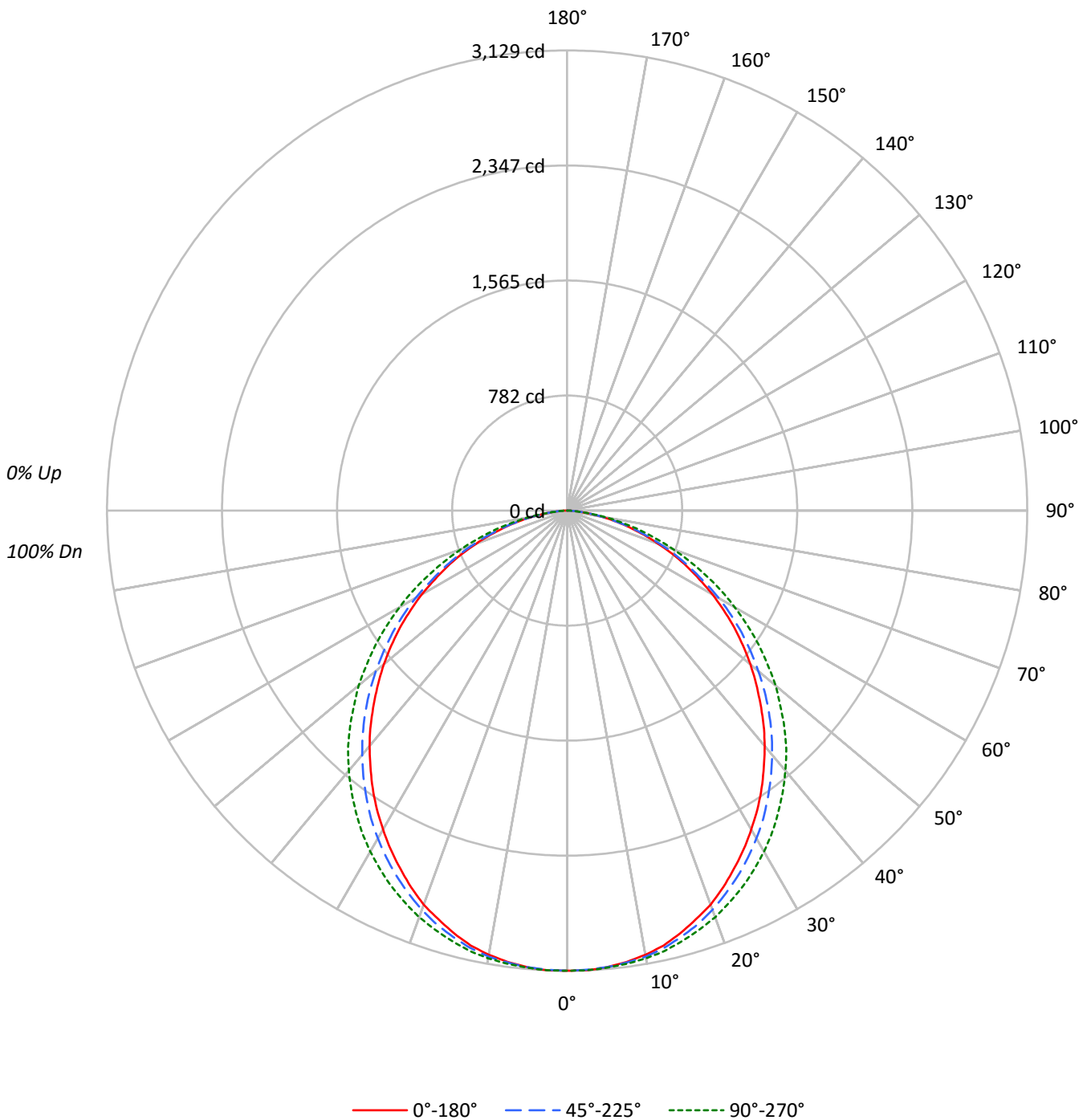
Input Watts (W): 71.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	8419	8419	8419
5°	8418	8418	8429
10°	8379	8413	8447
15°	8289	8359	8439
20°	8165	8272	8426
25°	7975	8147	8380
30°	7780	7998	8320
35°	7572	7817	8225
40°	7341	7618	8112
45°	7071	7386	7953
50°	6809	7103	7744
55°	6504	6795	7455
60°	6147	6415	7083
65°	5718	5903	6614
70°	5177	5372	6056
75°	4518	4690	5292
80°	3656	3719	4169
85°	2174	2427	2044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	3.6
10°-20°	846.5	10.2
20°-30°	1266.3	15.3
30°-40°	1496.1	18.1
40°-50°	1509.7	18.3
50°-60°	1311.0	15.9
60°-70°	940.1	11.4
70°-80°	489.7	5.9
80°-90°	103.4	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°	2409.0	29.2
0°-40°	3905.1	47.3
0°-60°	6725.8	81.4
0°-90°	8259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3129	3129	3129	3129	3129	
5°	3116	3112	3116	3116	3120	296
15°	2976	2980	3000	3021	3029	838
25°	2686	2702	2744	2798	2822	1237
35°	2305	2322	2380	2466	2504	1441
45°	1858	1879	1941	2040	2090	1435
55°	1386	1399	1448	1544	1589	1238
65°	898	894	927	997	1039	888
75°	434	430	451	484	509	464
85°	70	79	79	70	66	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3128.6	3128.6	3128.6	3128.6	3128.6
2.5°	3128.6	3124.5	3124.5	3124.5	3128.6
5°	3116.2	3112.1	3116.2	3116.2	3120.3
7.5°	3095.5	3091.4	3099.6	3103.8	3107.9
10°	3066.5	3066.5	3079.0	3087.2	3091.4
12.5°	3029.3	3029.3	3045.9	3058.3	3066.5
15°	2975.5	2979.6	3000.3	3021.0	3029.3
17.5°	2913.4	2925.8	2950.7	2979.6	2987.9
20°	2851.3	2859.6	2888.6	2925.8	2942.4
22.5°	2772.7	2785.1	2818.2	2867.9	2884.5
25°	2685.8	2702.4	2743.7	2797.5	2822.4
27.5°	2598.9	2611.3	2661.0	2723.1	2752.0
30°	2503.7	2520.3	2574.1	2644.4	2677.5
32.5°	2408.5	2421.0	2483.0	2557.5	2594.8
35°	2305.1	2321.6	2379.6	2466.5	2503.7
37.5°	2197.5	2218.2	2276.1	2367.2	2408.5
40°	2089.9	2102.3	2168.5	2259.6	2309.2
42.5°	1978.1	1994.7	2056.8	2156.1	2205.8
45°	1858.1	1878.8	1940.9	2040.2	2089.9
47.5°	1742.3	1763.0	1820.9	1920.2	1965.7
50°	1626.4	1638.8	1696.7	1796.1	1849.9
52.5°	1506.4	1518.8	1572.6	1667.8	1717.4
55°	1386.4	1398.8	1448.4	1543.6	1589.1
57.5°	1262.2	1270.5	1320.1	1407.1	1452.6
60°	1142.2	1146.3	1191.9	1270.5	1316.0
62.5°	1013.9	1018.0	1051.1	1142.2	1183.6
65°	898.0	893.9	927.0	997.4	1038.7
67.5°	778.0	778.0	807.0	869.1	902.2
70°	658.0	658.0	682.8	736.6	769.7
72.5°	546.3	546.3	567.0	608.3	633.2
75°	434.5	430.4	451.1	484.2	509.0
77.5°	331.1	331.1	339.3	368.3	384.9
80°	235.9	235.9	240.0	256.6	269.0
82.5°	149.0	149.0	149.0	157.3	161.4
85°	70.4	78.6	78.6	70.4	66.2
87.5°	33.1	33.1	29.0	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)