

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: P384160

Luminaire Tested: **22ID-80-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-80-L840-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

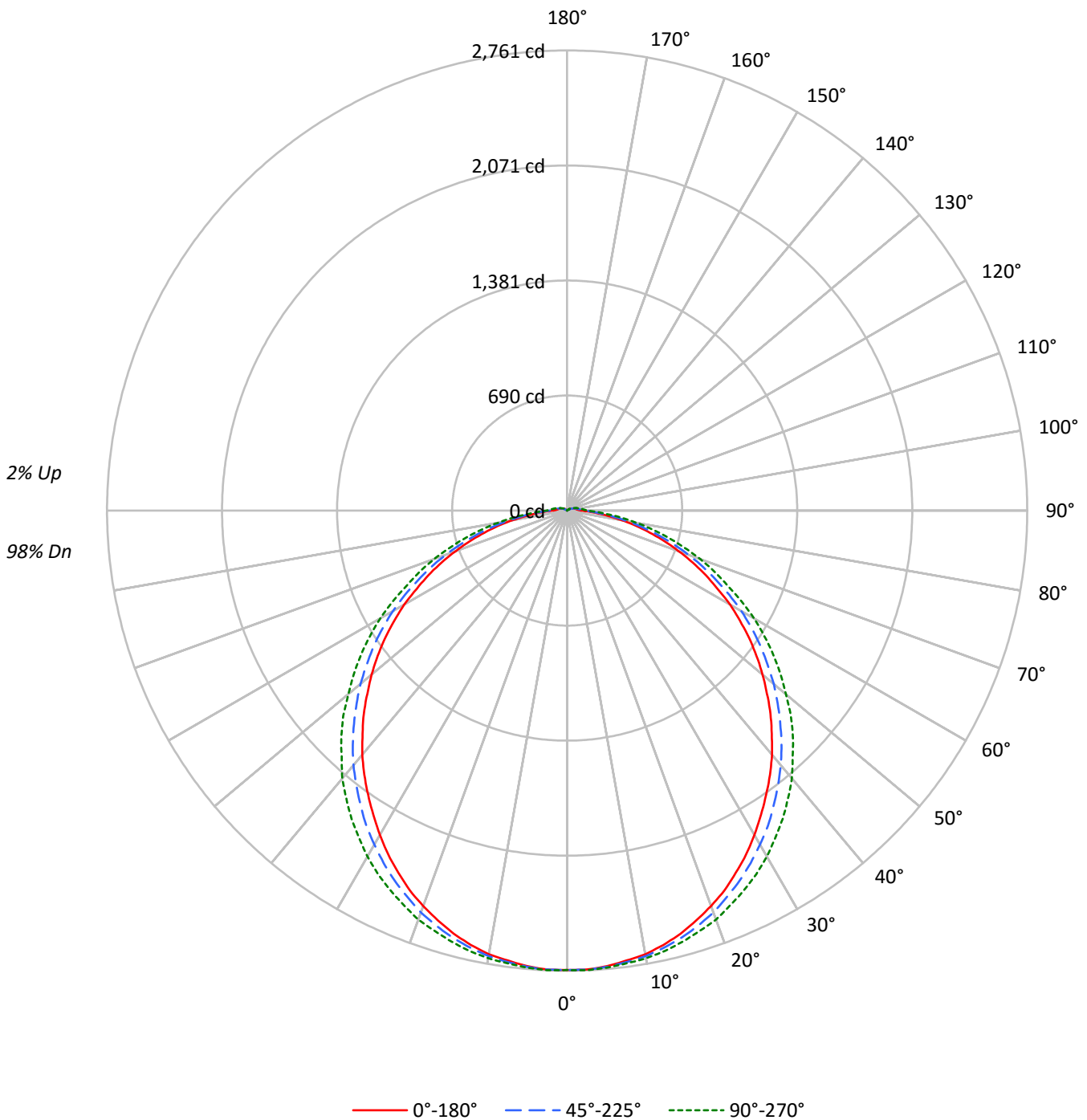
Lumens per Lamp: N/A  
Luminaire Lumens: 8163.8 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	83	83	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	69	69	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	50	50	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	44	44	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	34	34	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	27	27	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	7418	7418	7418
5°	7386	7386	7408
10°	7331	7343	7399
15°	7241	7276	7378
20°	7122	7194	7367
25°	6980	7081	7317
30°	6819	6953	7271
35°	6645	6816	7200
40°	6490	6678	7122
45°	6305	6500	7001
50°	6108	6331	6834
55°	5901	6126	6690
60°	5672	5902	6503
65°	5371	5568	6193
70°	5026	5242	5990
75°	4618	4798	5661
80°	4151	4279	5293
85°	3723	3818	5022



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.1	3.2
10°-20°	748.3	9.2
20°-30°	1129.8	13.8
30°-40°	1353.7	16.6
40°-50°	1399.6	17.1
50°-60°	1267.4	15.5
60°-70°	980.8	12.0
70°-80°	602.5	7.4
80°-90°	239.4	2.9
90°-100°	87.3	1.1
100°-110°	53.7	0.7
110°-120°	27.6	0.3
120°-130°	11.8	0.1
130°-140°	0.8	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°	2139.2	26.2
0°-40°	3493.0	42.8
0°-60°	6160.0	75.5
0°-90°	7982.7	97.8
90°-120°	168.6	2.1
90°-150°	181.2	2.2
90°-180°	181.0	2.2
0°-180°	8163.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2744	2744	2748	2748	2752	261
15°	2628	2632	2653	2670	2678	741
25°	2396	2413	2450	2492	2512	1104
35°	2082	2107	2160	2218	2256	1303
45°	1726	1747	1809	1883	1916	1330
55°	1333	1362	1416	1478	1511	1191
65°	919	940	985	1035	1060	909
75°	513	538	563	600	629	547
85°	178	190	207	228	240	177
90°	83	95	104	116	124	49
95°	62	70	79	87	95	50
105°	46	46	50	54	58	48
115°	29	25	25	29	33	29
125°	17	12	8	12	17	15
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2756.5	2756.5	2756.5	2756.5	2756.5
2.5°	2756.5	2752.3	2756.5	2756.5	2760.6
5°	2744.1	2744.1	2748.2	2748.2	2752.3
7.5°	2723.4	2723.4	2731.6	2735.8	2739.9
10°	2702.7	2702.7	2715.1	2719.2	2727.5
12.5°	2669.6	2673.7	2686.1	2698.5	2706.8
15°	2628.2	2632.3	2653.0	2669.6	2677.8
17.5°	2578.5	2586.8	2611.6	2636.4	2644.7
20°	2524.7	2537.1	2566.1	2595.1	2611.6
22.5°	2466.8	2475.0	2508.1	2545.4	2561.9
25°	2396.4	2412.9	2450.2	2491.6	2512.3
27.5°	2326.0	2342.6	2384.0	2433.6	2458.5
30°	2247.4	2264.0	2313.6	2367.4	2396.4
32.5°	2164.6	2185.3	2243.3	2297.1	2326.0
35°	2081.8	2106.7	2160.5	2218.4	2255.7
37.5°	1999.1	2019.8	2077.7	2139.8	2177.0
40°	1912.1	1932.8	1994.9	2057.0	2098.4
42.5°	1817.0	1841.8	1903.9	1970.1	2003.2
45°	1725.9	1746.6	1808.7	1883.2	1916.3
47.5°	1626.6	1655.5	1713.5	1783.8	1821.1
50°	1531.4	1556.2	1618.3	1684.5	1713.5
52.5°	1432.0	1456.9	1514.8	1581.0	1614.2
55°	1332.7	1361.7	1415.5	1477.6	1510.7
57.5°	1229.2	1258.2	1312.0	1365.8	1403.1
60°	1129.9	1158.9	1208.5	1262.3	1295.5
62.5°	1018.2	1043.0	1096.8	1154.7	1179.6
65°	918.8	939.5	985.0	1034.7	1059.5
67.5°	815.4	840.2	881.6	927.1	956.1
70°	711.9	740.9	774.0	815.4	848.5
72.5°	612.5	637.4	666.4	707.7	736.7
75°	513.2	538.1	562.9	600.1	629.1
77.5°	426.3	438.7	463.6	496.7	525.6
80°	331.1	347.7	368.4	401.5	422.2
82.5°	248.3	264.9	281.4	306.3	327.0
85°	178.0	190.4	206.9	227.6	240.1
87.5°	120.0	132.4	144.9	161.4	173.8
90°	82.8	95.2	103.5	115.9	124.2
92.5°	70.4	78.6	86.9	95.2	103.5
95°	62.1	70.4	78.6	86.9	95.2
97.5°	57.9	62.1	70.4	78.6	82.8
100°	53.8	57.9	62.1	70.4	74.5
102.5°	49.7	49.7	57.9	62.1	66.2
105°	45.5	45.5	49.7	53.8	57.9
107.5°	41.4	41.4	45.5	45.5	53.8
110°	37.2	33.1	37.2	37.2	45.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	33.1	29.0	33.1	33.1	37.2
115°	29.0	24.8	24.8	29.0	33.1
117.5°	24.8	20.7	20.7	20.7	29.0
120°	24.8	20.7	16.6	16.6	24.8
122.5°	20.7	16.6	12.4	16.6	20.7
125°	16.6	12.4	8.3	12.4	16.6
127.5°	12.4	12.4	4.1	8.3	12.4
130°	12.4	8.3	4.1	8.3	8.3
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)