

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: P384328

Luminaire Tested: **22ID-80-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-80-L840-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

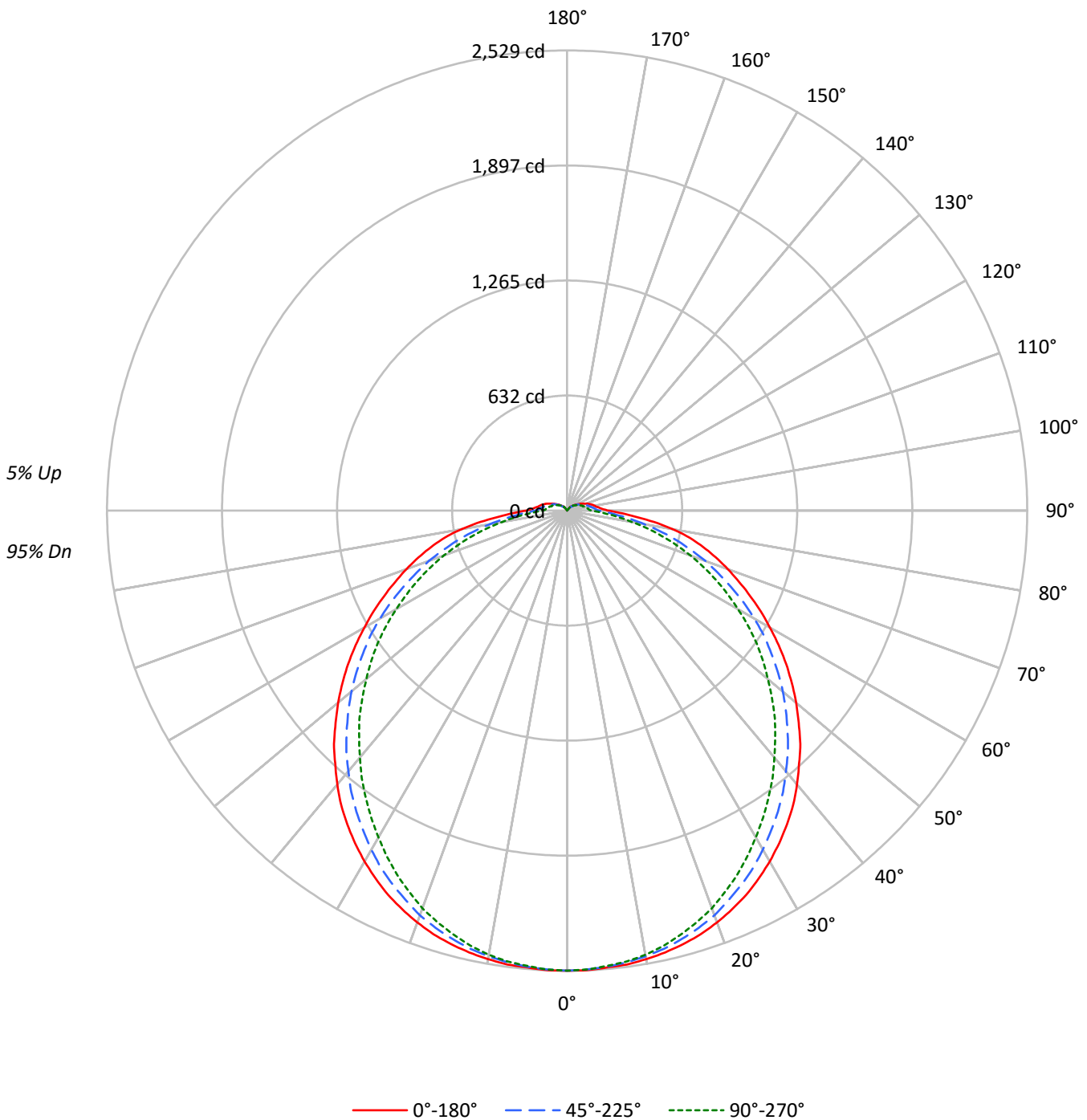
Lumens per Lamp: N/A  
Luminaire Lumens: 8201.1 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

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



TEST NUMBER: P384328  
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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

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

	0°	45°	90°
0°	6804	6804	6804
5°	6759	6727	6736
10°	6742	6658	6675
15°	6721	6583	6575
20°	6694	6500	6464
25°	6659	6383	6316
30°	6601	6261	6147
35°	6538	6128	5986
40°	6454	5980	5815
45°	6367	5833	5670
50°	6257	5682	5485
55°	6159	5501	5327
60°	6053	5309	5100
65°	5991	5048	4874
70°	6014	4796	4610
75°	6138	4453	4267
80°	6228	3998	3833
85°	5890	3593	3534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.3	2.9
10°-20°	688.2	8.4
20°-30°	1045.2	12.7
30°-40°	1262.5	15.4
40°-50°	1321.4	16.1
50°-60°	1226.1	15.0
60°-70°	993.1	12.1
70°-80°	670.2	8.2
80°-90°	323.8	3.9
90°-100°	162.9	2.0
100°-110°	118.4	1.4
110°-120°	79.1	1.0
120°-130°	45.9	0.6
130°-140°	23.1	0.3
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1972.7	24.1
0°-40°	3235.2	39.4
0°-60°	5782.7	70.5
0°-90°	7769.9	94.7
90°-120°	360.5	4.4
90°-150°	431.2	5.3
90°-180°	431.0	5.3
0°-180°	8201.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2529	2529	2529	2529	2529	
5°	2520	2516	2516	2512	2512	240
15°	2466	2454	2438	2421	2413	697
25°	2330	2309	2268	2226	2210	1074
35°	2106	2078	2020	1958	1928	1318
45°	1813	1780	1713	1643	1614	1396
55°	1469	1436	1370	1304	1270	1313
65°	1109	1068	993	939	902	1101
75°	774	695	617	571	538	815
85°	372	323	273	248	224	352
90°	224	203	174	157	132	128
95°	178	166	149	132	116	140
105°	132	124	112	99	91	141
115°	91	83	83	70	70	91
125°	58	50	54	46	50	51
135°	33	29	29	29	33	26
145°	0	0	0	0	0	2
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



TEST NUMBER: P384328

CATALOG NUMBER: 22ID-80-L840-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2528.6	2528.6	2528.6	2528.6	2528.6
2.5°	2528.6	2524.4	2524.4	2524.4	2524.4
5°	2520.3	2516.1	2516.1	2512.0	2512.0
7.5°	2516.1	2507.9	2503.7	2499.6	2499.6
10°	2503.7	2495.4	2487.2	2478.9	2478.9
12.5°	2487.2	2478.9	2466.5	2449.9	2449.9
15°	2466.5	2454.1	2437.5	2421.0	2412.7
17.5°	2441.6	2429.2	2404.4	2379.6	2371.3
20°	2408.5	2392.0	2367.2	2334.0	2325.8
22.5°	2371.3	2354.7	2317.5	2284.4	2267.8
25°	2329.9	2309.2	2267.8	2226.5	2209.9
27.5°	2280.3	2259.6	2214.0	2164.4	2143.7
30°	2226.5	2201.6	2152.0	2098.2	2073.3
32.5°	2168.5	2139.5	2085.7	2027.8	2003.0
35°	2106.4	2077.5	2019.5	1957.5	1928.5
37.5°	2040.2	2011.3	1949.2	1883.0	1854.0
40°	1965.7	1936.8	1870.6	1804.3	1771.2
42.5°	1887.1	1862.3	1796.1	1725.7	1692.6
45°	1812.6	1779.5	1713.3	1642.9	1614.0
47.5°	1725.7	1700.9	1630.5	1560.2	1527.1
50°	1642.9	1614.0	1547.8	1477.4	1440.2
52.5°	1556.0	1531.2	1460.8	1390.5	1357.4
55°	1469.1	1436.0	1369.8	1303.6	1270.5
57.5°	1378.1	1349.1	1282.9	1220.8	1179.4
60°	1287.0	1258.1	1187.7	1129.8	1084.3
62.5°	1200.1	1167.0	1092.5	1030.5	993.2
65°	1109.1	1067.7	993.2	939.4	902.2
67.5°	1022.2	972.5	898.0	848.4	811.1
70°	939.4	881.5	807.0	757.3	720.1
72.5°	856.6	786.3	707.7	662.1	629.0
75°	773.9	695.2	616.6	571.1	538.0
77.5°	691.1	600.1	521.4	484.2	451.1
80°	591.8	504.9	430.4	397.3	364.2
82.5°	480.1	409.7	347.6	314.5	289.7
85°	372.5	322.8	273.1	248.3	223.5
87.5°	289.7	252.4	215.2	194.5	173.8
90°	223.5	202.8	173.8	157.3	132.4
92.5°	194.5	178.0	157.3	140.7	120.0
95°	178.0	165.5	149.0	132.4	115.9
97.5°	161.4	153.1	136.6	124.2	107.6
100°	153.1	140.7	128.3	115.9	103.5
102.5°	144.8	132.4	120.0	107.6	99.3
105°	132.4	124.2	111.7	99.3	91.0
107.5°	124.2	111.7	103.5	91.0	86.9
110°	111.7	103.5	95.2	86.9	82.8



TEST NUMBER: P384328

CATALOG NUMBER: 22ID-80-L840-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	99.3	95.2	86.9	78.6	74.5
115°	91.0	82.8	82.8	70.4	70.4
117.5°	82.8	74.5	74.5	66.2	66.2
120°	70.4	66.2	66.2	57.9	57.9
122.5°	62.1	57.9	57.9	53.8	53.8
125°	57.9	49.7	53.8	45.5	49.7
127.5°	49.7	45.5	45.5	41.4	45.5
130°	41.4	37.2	37.2	37.2	41.4
132.5°	37.2	33.1	33.1	33.1	37.2
135°	33.1	29.0	29.0	29.0	33.1
137.5°	29.0	24.8	20.7	24.8	29.0
140°	24.8	20.7	16.6	20.7	24.8
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)