

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: P384273

Luminaire Tested: **14ID-80-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384273  
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: 14ID-80-L850-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

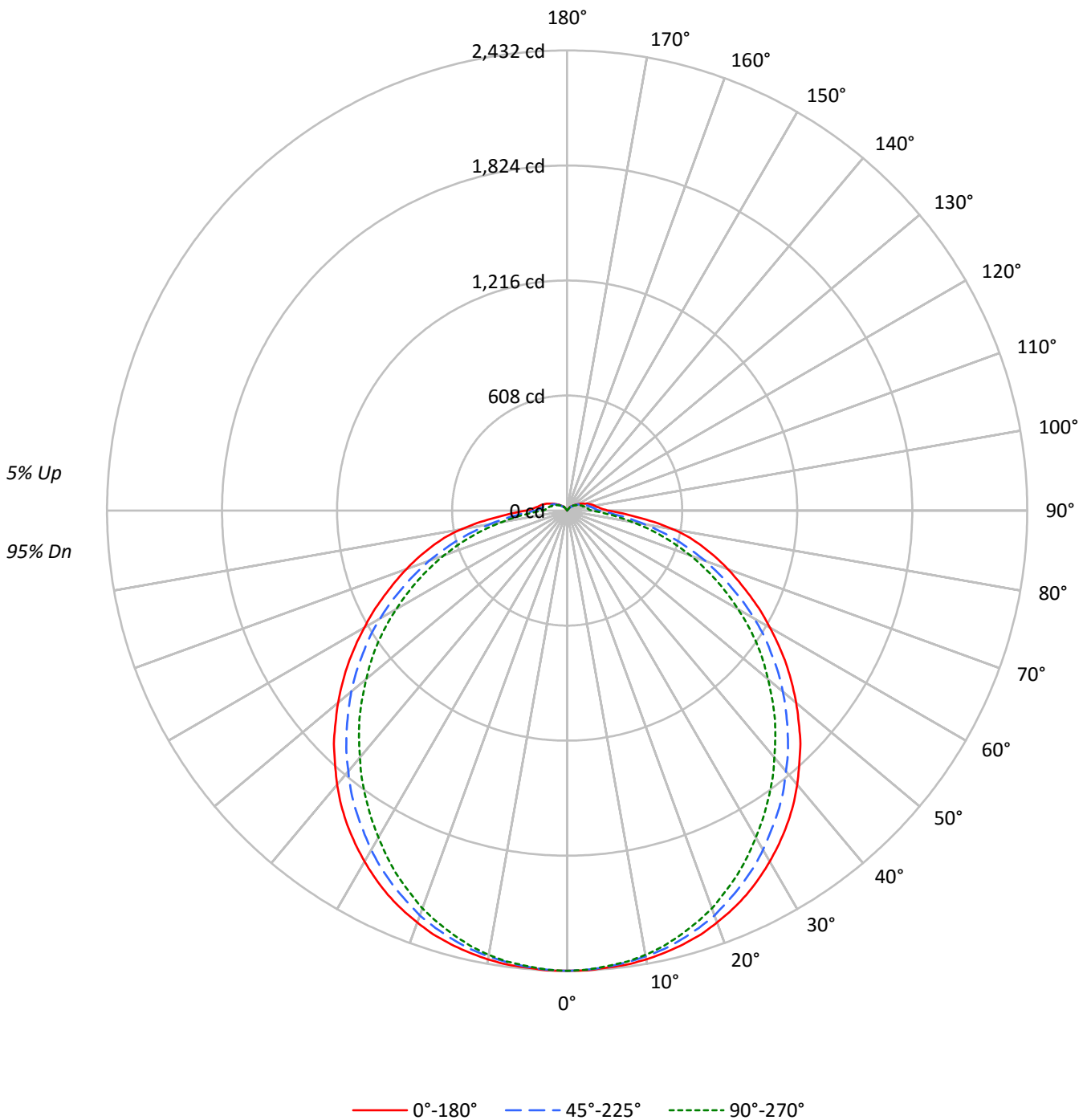
Lumens per Lamp: N/A  
Luminaire Lumens: 7889.6 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 77.1  
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



TEST NUMBER: P384273  
CATALOG NUMBER: 14ID-80-L850-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384273

CATALOG NUMBER: 14ID-80-L850-CFD2

**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°	6546	6546	6546
5°	6525	6455	6434
10°	6533	6373	6330
15°	6537	6285	6190
20°	6536	6189	6041
25°	6528	6061	5857
30°	6499	5928	5654
35°	6468	5785	5458
40°	6419	5626	5251
45°	6371	5467	5065
50°	6304	5303	4839
55°	6258	5108	4632
60°	6215	4899	4356
65°	6237	4623	4071
70°	6380	4348	3738
75°	6699	3980	3318
80°	7136	3495	2791
85°	7494	3023	2285



TEST NUMBER: P384273

CATALOG NUMBER: 14ID-80-L850-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.2	2.9
10°-20°	662.0	8.4
20°-30°	1005.5	12.7
30°-40°	1214.5	15.4
40°-50°	1271.2	16.1
50°-60°	1179.6	15.0
60°-70°	955.4	12.1
70°-80°	644.8	8.2
80°-90°	311.5	3.9
90°-100°	156.7	2.0
100°-110°	113.9	1.4
110°-120°	76.1	1.0
120°-130°	44.1	0.6
130°-140°	22.2	0.3
140°-150°	1.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1897.8	24.1
0°-40°	3112.3	39.4
0°-60°	5563.1	70.5
0°-90°	7474.8	94.7
90°-120°	346.7	4.4
90°-150°	414.8	5.3
90°-180°	415.0	5.3
0°-180°	7889.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2432	2432	2432	2432	2432	
5°	2424	2421	2421	2417	2417	231
15°	2373	2361	2345	2329	2321	670
25°	2241	2222	2182	2142	2126	1033
35°	2026	1999	1943	1883	1855	1268
45°	1744	1712	1648	1580	1553	1343
55°	1413	1382	1318	1254	1222	1263
65°	1067	1027	956	904	868	1059
75°	744	669	593	549	518	784
85°	358	310	263	239	215	339
90°	215	195	167	151	127	123
95°	171	159	143	127	112	134
105°	127	119	108	96	88	136
115°	88	80	80	68	68	87
125°	56	48	52	44	48	49
135°	32	28	28	28	32	25
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: P384273

CATALOG NUMBER: 14ID-80-L850-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2432.5	2432.5	2432.5	2432.5	2432.5
2.5°	2432.5	2428.5	2428.5	2428.5	2428.5
5°	2424.5	2420.6	2420.6	2416.6	2416.6
7.5°	2420.6	2412.6	2408.6	2404.6	2404.6
10°	2408.6	2400.7	2392.7	2384.7	2384.7
12.5°	2392.7	2384.7	2372.8	2356.9	2356.9
15°	2372.8	2360.9	2344.9	2329.0	2321.0
17.5°	2348.9	2337.0	2313.1	2289.2	2281.2
20°	2317.1	2301.1	2277.2	2245.4	2237.4
22.5°	2281.2	2265.3	2229.5	2197.6	2181.7
25°	2241.4	2221.5	2181.7	2141.9	2126.0
27.5°	2193.6	2173.7	2129.9	2082.2	2062.3
30°	2141.9	2118.0	2070.2	2018.5	1994.6
32.5°	2086.1	2058.3	2006.5	1950.8	1926.9
35°	2026.4	1998.6	1942.8	1883.1	1855.2
37.5°	1962.7	1934.9	1875.1	1811.4	1783.6
40°	1891.1	1863.2	1799.5	1735.8	1704.0
42.5°	1815.4	1791.5	1727.8	1660.2	1628.3
45°	1743.8	1711.9	1648.2	1580.5	1552.7
47.5°	1660.2	1636.3	1568.6	1500.9	1469.1
50°	1580.5	1552.7	1489.0	1421.3	1385.5
52.5°	1496.9	1473.0	1405.4	1337.7	1305.8
55°	1413.3	1381.5	1317.8	1254.1	1222.2
57.5°	1325.7	1297.9	1234.2	1174.5	1134.6
60°	1238.2	1210.3	1142.6	1086.9	1043.1
62.5°	1154.5	1122.7	1051.0	991.3	955.5
65°	1067.0	1027.1	955.5	903.7	867.9
67.5°	983.4	935.6	863.9	816.1	780.3
70°	903.7	848.0	776.3	728.6	692.7
72.5°	824.1	756.4	680.8	637.0	605.1
75°	744.5	668.8	593.2	549.4	517.6
77.5°	664.9	577.3	501.6	465.8	434.0
80°	569.3	485.7	414.0	382.2	350.3
82.5°	461.8	394.1	334.4	302.6	278.7
85°	358.3	310.5	262.8	238.9	215.0
87.5°	278.7	242.9	207.0	187.1	167.2
90°	215.0	195.1	167.2	151.3	127.4
92.5°	187.1	171.2	151.3	135.4	115.5
95°	171.2	159.2	143.3	127.4	111.5
97.5°	155.3	147.3	131.4	119.4	103.5
100°	147.3	135.4	123.4	111.5	99.5
102.5°	139.3	127.4	115.5	103.5	95.5
105°	127.4	119.4	107.5	95.5	87.6
107.5°	119.4	107.5	99.5	87.6	83.6
110°	107.5	99.5	91.6	83.6	79.6



TEST NUMBER: P384273

CATALOG NUMBER: 14ID-80-L850-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	95.5	91.6	83.6	75.6	71.7
115°	87.6	79.6	79.6	67.7	67.7
117.5°	79.6	71.7	71.7	63.7	63.7
120°	67.7	63.7	63.7	55.7	55.7
122.5°	59.7	55.7	55.7	51.8	51.8
125°	55.7	47.8	51.8	43.8	47.8
127.5°	47.8	43.8	43.8	39.8	43.8
130°	39.8	35.8	35.8	35.8	39.8
132.5°	35.8	31.8	31.8	31.8	35.8
135°	31.8	27.9	27.9	27.9	31.8
137.5°	27.9	23.9	19.9	23.9	27.9
140°	23.9	19.9	15.9	19.9	23.9
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)