

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: P384605

Luminaire Tested: **14ID-75-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-75-L850-CFD3  
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

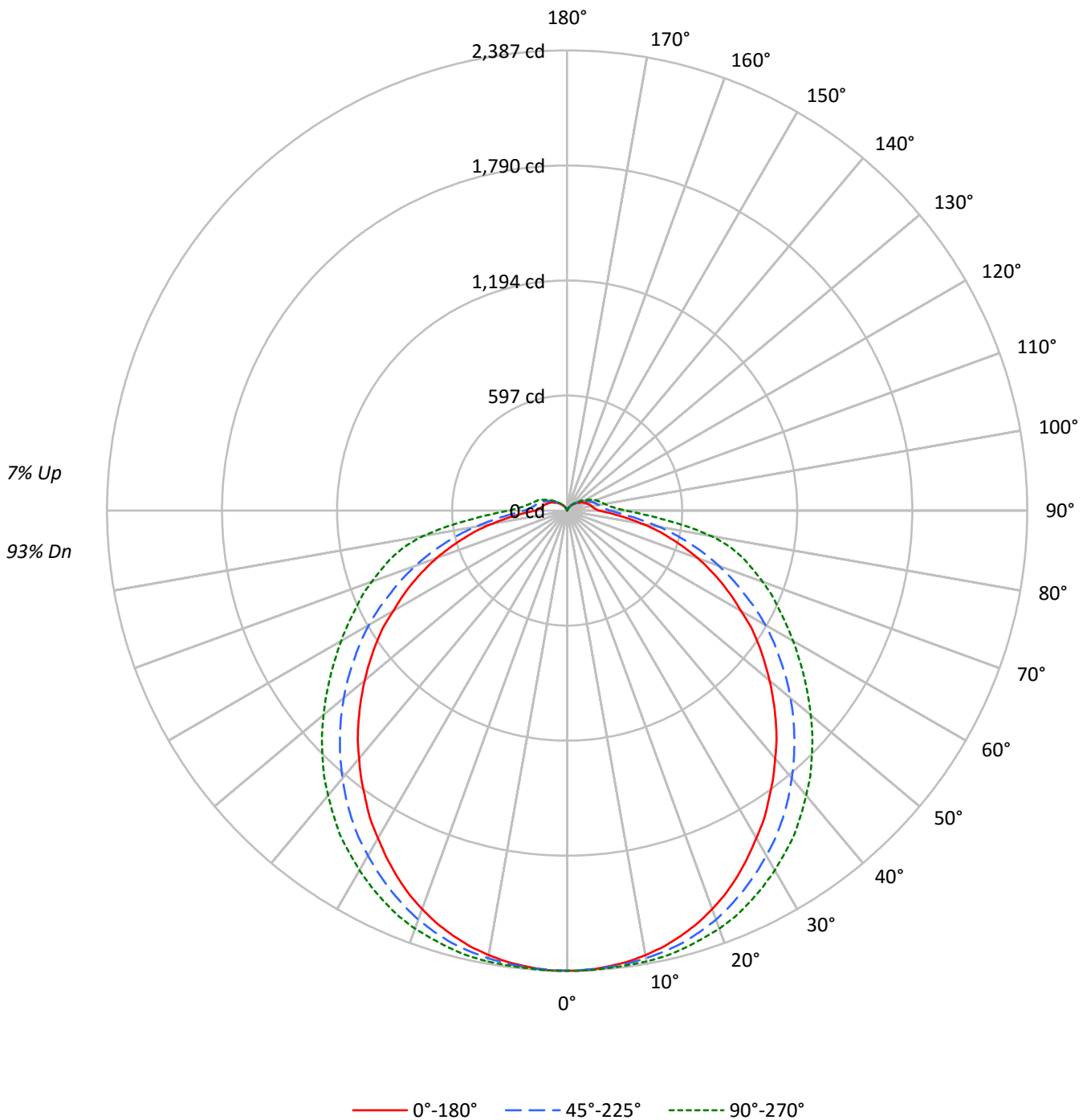
Lumens per Lamp: N/A  
Luminaire Lumens: 8353.9 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 70.9  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

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

	0°	45°	90°
0°	6424	6424	6424
5°	6380	6304	6300
10°	6328	6202	6215
15°	6256	6104	6135
20°	6159	5985	6058
25°	6034	5843	5960
30°	5885	5694	5849
35°	5743	5547	5742
40°	5604	5371	5601
45°	5477	5194	5467
50°	5341	5011	5321
55°	5222	4814	5185
60°	5058	4622	5085
65°	4959	4356	5026
70°	4840	4100	5033
75°	4671	3751	5065
80°	4528	3324	4860
85°	4576	2809	3901



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.4	2.7
10°-20°	654.1	7.8
20°-30°	999.4	12.0
30°-40°	1216.5	14.6
40°-50°	1285.8	15.4
50°-60°	1213.7	14.5
60°-70°	1021.1	12.2
70°-80°	736.2	8.8
80°-90°	388.3	4.6
90°-100°	207.8	2.5
100°-110°	157.8	1.9
110°-120°	114.5	1.4
120°-130°	71.9	0.9
130°-140°	38.8	0.5
140°-150°	17.0	0.2
150°-160°	4.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1879.8	22.5
0°-40°	3096.3	37.1
0°-60°	5595.8	67.0
0°-90°	7741.4	92.7
90°-120°	480.1	5.7
90°-150°	607.8	7.3
90°-180°	613.0	7.3
0°-180°	8353.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2375	2375	2379	2379	2383	226
15°	2283	2291	2321	2337	2350	644
25°	2091	2116	2171	2221	2241	963
35°	1825	1866	1950	2025	2054	1143
45°	1529	1575	1666	1758	1796	1180
55°	1212	1266	1350	1450	1500	1084
65°	883	933	1008	1133	1212	873
75°	554	600	658	787	942	588
85°	254	288	321	400	487	238
90°	162	192	221	262	300	93
95°	142	162	188	212	229	113
105°	121	133	150	167	175	126
115°	96	104	117	125	133	96
125°	71	71	83	83	88	64
135°	50	46	50	50	54	38
145°	29	25	25	25	29	19
155°	12	12	4	8	12	6
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°	2387.2	2387.2	2387.2	2387.2	2387.2
2.5°	2387.2	2383.1	2383.1	2383.1	2387.2
5°	2374.7	2374.7	2378.9	2378.9	2383.1
7.5°	2362.3	2362.3	2370.6	2374.7	2378.9
10°	2341.4	2345.6	2358.1	2366.4	2374.7
12.5°	2316.4	2320.6	2341.4	2358.1	2366.4
15°	2283.1	2291.4	2320.6	2337.3	2349.8
17.5°	2245.6	2258.1	2291.4	2316.4	2328.9
20°	2199.8	2216.4	2258.1	2291.4	2308.1
22.5°	2149.8	2166.4	2216.4	2258.1	2278.9
25°	2091.4	2116.4	2170.6	2220.6	2241.4
27.5°	2029.0	2058.1	2120.6	2178.9	2199.8
30°	1962.3	1995.6	2066.4	2128.9	2153.9
32.5°	1899.8	1933.1	2012.3	2078.9	2103.9
35°	1824.8	1866.5	1949.8	2024.8	2054.0
37.5°	1754.0	1795.6	1883.1	1962.3	1991.5
40°	1679.0	1720.7	1812.3	1899.8	1929.0
42.5°	1608.2	1649.8	1741.5	1833.1	1866.5
45°	1529.0	1574.8	1666.5	1758.1	1795.6
47.5°	1449.8	1495.7	1591.5	1687.3	1724.8
50°	1370.7	1420.7	1512.3	1608.2	1649.8
52.5°	1291.5	1341.5	1433.2	1533.2	1574.8
55°	1212.4	1266.5	1349.9	1449.8	1499.8
57.5°	1133.2	1187.4	1270.7	1374.9	1424.8
60°	1041.6	1104.1	1187.4	1295.7	1354.0
62.5°	962.4	1016.6	1099.9	1212.4	1283.2
65°	883.2	933.2	1008.2	1133.2	1212.4
67.5°	799.9	854.1	924.9	1041.6	1149.9
70°	720.8	766.6	837.4	958.2	1079.1
72.5°	637.4	683.3	749.9	874.9	1008.2
75°	554.1	599.9	658.3	787.4	941.6
77.5°	479.1	516.6	570.8	695.8	862.4
80°	395.8	433.3	483.3	595.8	758.3
82.5°	320.8	354.1	395.8	495.8	624.9
85°	254.1	287.5	320.8	400.0	487.4
87.5°	204.1	229.1	262.5	320.8	379.1
90°	162.5	191.6	220.8	262.5	300.0
92.5°	150.0	175.0	200.0	233.3	258.3
95°	141.7	162.5	187.5	212.5	229.1
97.5°	133.3	154.2	175.0	200.0	212.5
100°	129.2	145.8	166.6	187.5	195.8
102.5°	125.0	137.5	158.3	175.0	187.5
105°	120.8	133.3	150.0	166.6	175.0
107.5°	112.5	125.0	141.7	158.3	166.6
110°	108.3	116.7	133.3	145.8	158.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	104.2	112.5	125.0	137.5	145.8
115°	95.8	104.2	116.7	125.0	133.3
117.5°	91.7	95.8	108.3	112.5	120.8
120°	83.3	87.5	100.0	104.2	108.3
122.5°	75.0	79.2	91.7	91.7	100.0
125°	70.8	70.8	83.3	83.3	87.5
127.5°	66.7	66.7	75.0	75.0	79.2
130°	58.3	58.3	66.7	66.7	66.7
132.5°	54.2	50.0	58.3	58.3	62.5
135°	50.0	45.8	50.0	50.0	54.2
137.5°	41.7	41.7	45.8	41.7	45.8
140°	37.5	33.3	37.5	37.5	41.7
142.5°	33.3	29.2	33.3	29.2	33.3
145°	29.2	25.0	25.0	25.0	29.2
147.5°	25.0	20.8	20.8	20.8	25.0
150°	20.8	16.7	16.7	16.7	20.8
152.5°	16.7	12.5	8.3	12.5	16.7
155°	12.5	12.5	4.2	8.3	12.5
157.5°	8.3	8.3	0.0	4.2	8.3
160°	4.2	4.2	0.0	4.2	4.2
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)