

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: P384657

Luminaire Tested: **22ID-70-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384657  
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: 22ID-70-L850-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

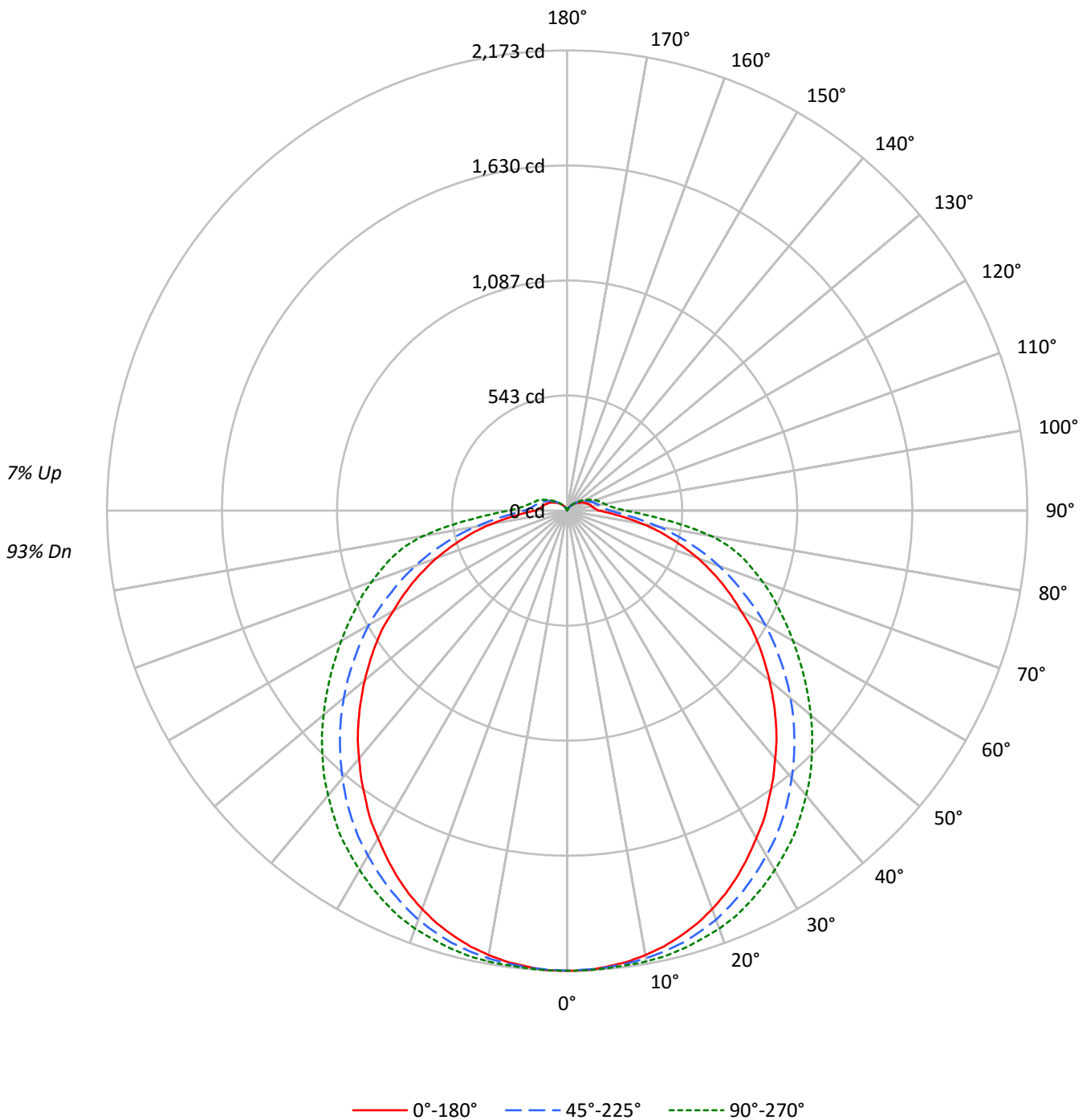
Lumens per Lamp: N/A  
Luminaire Lumens: 7603.8 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 61.8  
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	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°	5847	5847	5847
5°	5776	5760	5796
10°	5698	5688	5779
15°	5602	5618	5765
20°	5484	5530	5754
25°	5341	5419	5724
30°	5176	5303	5682
35°	5017	5188	5647
40°	4859	5046	5582
45°	4708	4906	5529
50°	4546	4760	5472
55°	4393	4603	5435
60°	4194	4453	5452
65°	4037	4237	5541
70°	3842	4036	5752
75°	3576	3754	6076
80°	3267	3404	6259
85°	2940	2985	5641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	2.7
10°-20°	595.4	7.8
20°-30°	909.6	12.0
30°-40°	1107.3	14.6
40°-50°	1170.3	15.4
50°-60°	1104.7	14.5
60°-70°	929.4	12.2
70°-80°	670.1	8.8
80°-90°	353.4	4.6
90°-100°	189.2	2.5
100°-110°	143.7	1.9
110°-120°	104.2	1.4
120°-130°	65.4	0.9
130°-140°	35.4	0.5
140°-150°	15.4	0.2
150°-160°	4.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1711.0	22.5
0°-40°	2818.3	37.1
0°-60°	5093.4	67.0
0°-90°	7046.3	92.7
90°-120°	437.0	5.7
90°-150°	553.2	7.3
90°-180°	557.0	7.3
0°-180°	7603.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2162	2162	2165	2165	2169	205
15°	2078	2086	2112	2127	2139	586
25°	1904	1926	1976	2021	2040	877
35°	1661	1699	1775	1843	1870	1040
45°	1392	1433	1517	1600	1634	1074
55°	1104	1153	1229	1320	1365	986
65°	804	849	918	1032	1104	795
75°	504	546	599	717	857	535
85°	231	262	292	364	444	217
90°	148	174	201	239	273	85
95°	129	148	171	193	209	103
105°	110	121	136	152	159	115
115°	87	95	106	114	121	88
125°	64	64	76	76	80	58
135°	46	42	46	46	49	34
145°	26	23	23	23	26	17
155°	11	11	4	8	11	5
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°	2172.9	2172.9	2172.9	2172.9	2172.9
2.5°	2172.9	2169.1	2169.1	2169.1	2172.9
5°	2161.5	2161.5	2165.3	2165.3	2169.1
7.5°	2150.1	2150.1	2157.7	2161.5	2165.3
10°	2131.2	2135.0	2146.4	2153.9	2161.5
12.5°	2108.4	2112.2	2131.2	2146.4	2153.9
15°	2078.1	2085.7	2112.2	2127.4	2138.8
17.5°	2044.0	2055.3	2085.7	2108.4	2119.8
20°	2002.3	2017.4	2055.3	2085.7	2100.8
22.5°	1956.7	1971.9	2017.4	2055.3	2074.3
25°	1903.7	1926.4	1975.7	2021.2	2040.2
27.5°	1846.8	1873.3	1930.2	1983.3	2002.3
30°	1786.1	1816.4	1880.9	1937.8	1960.5
32.5°	1729.2	1759.6	1831.6	1892.3	1915.0
35°	1661.0	1698.9	1774.7	1843.0	1869.5
37.5°	1596.5	1634.4	1714.0	1786.1	1812.6
40°	1528.2	1566.2	1649.6	1729.2	1755.8
42.5°	1463.8	1501.7	1585.1	1668.5	1698.9
45°	1391.7	1433.4	1516.9	1600.3	1634.4
47.5°	1319.7	1361.4	1448.6	1535.8	1569.9
50°	1247.6	1293.1	1376.5	1463.8	1501.7
52.5°	1175.6	1221.1	1304.5	1395.5	1433.4
55°	1103.5	1152.8	1228.7	1319.7	1365.2
57.5°	1031.5	1080.8	1156.6	1251.4	1296.9
60°	948.0	1004.9	1080.8	1179.4	1232.4
62.5°	876.0	925.3	1001.1	1103.5	1168.0
65°	803.9	849.4	917.7	1031.5	1103.5
67.5°	728.1	777.4	841.9	948.0	1046.6
70°	656.0	697.8	762.2	872.2	982.2
72.5°	580.2	621.9	682.6	796.3	917.7
75°	504.4	546.1	599.2	716.7	857.0
77.5°	436.1	470.2	519.5	633.3	785.0
80°	360.3	394.4	439.9	542.3	690.2
82.5°	292.0	322.3	360.3	451.3	568.8
85°	231.3	261.7	292.0	364.0	443.7
87.5°	185.8	208.6	238.9	292.0	345.1
90°	147.9	174.4	201.0	238.9	273.0
92.5°	136.5	159.3	182.0	212.4	235.1
95°	128.9	147.9	170.6	193.4	208.6
97.5°	121.3	140.3	159.3	182.0	193.4
100°	117.6	132.7	151.7	170.6	178.2
102.5°	113.8	125.1	144.1	159.3	170.6
105°	110.0	121.3	136.5	151.7	159.3
107.5°	102.4	113.8	128.9	144.1	151.7
110°	98.6	106.2	121.3	132.7	144.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.8	102.4	113.8	125.1	132.7
115°	87.2	94.8	106.2	113.8	121.3
117.5°	83.4	87.2	98.6	102.4	110.0
120°	75.8	79.6	91.0	94.8	98.6
122.5°	68.3	72.1	83.4	83.4	91.0
125°	64.5	64.5	75.8	75.8	79.6
127.5°	60.7	60.7	68.3	68.3	72.1
130°	53.1	53.1	60.7	60.7	60.7
132.5°	49.3	45.5	53.1	53.1	56.9
135°	45.5	41.7	45.5	45.5	49.3
137.5°	37.9	37.9	41.7	37.9	41.7
140°	34.1	30.3	34.1	34.1	37.9
142.5°	30.3	26.5	30.3	26.5	30.3
145°	26.5	22.8	22.8	22.8	26.5
147.5°	22.8	19.0	19.0	19.0	22.8
150°	19.0	15.2	15.2	15.2	19.0
152.5°	15.2	11.4	7.6	11.4	15.2
155°	11.4	11.4	3.8	7.6	11.4
157.5°	7.6	7.6	0.0	3.8	7.6
160°	3.8	3.8	0.0	3.8	3.8
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)