

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: P384265

Luminaire Tested: **14ID-70-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384265  
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-70-L850-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

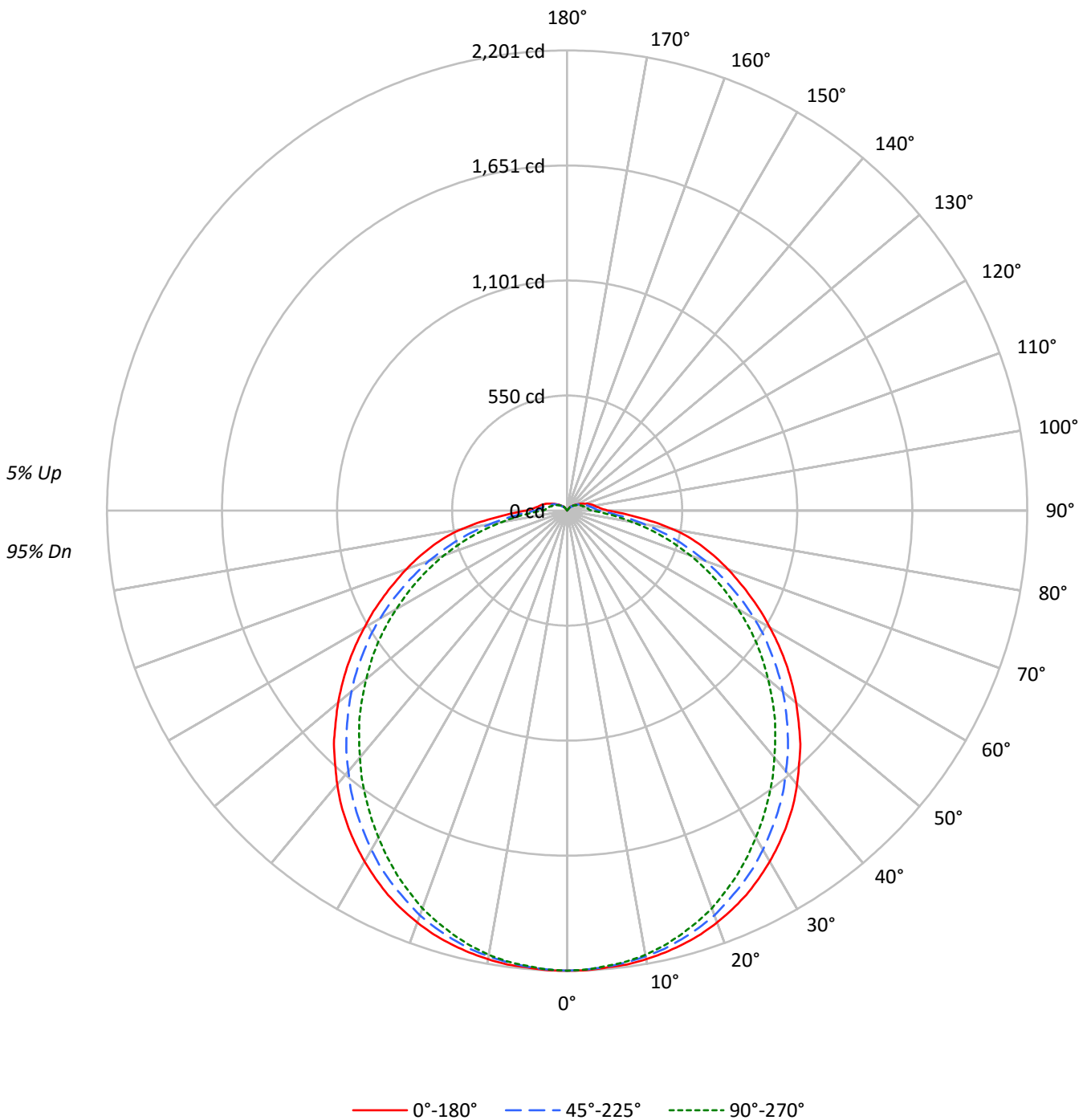
Lumens per Lamp: N/A  
Luminaire Lumens: 7138.5 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 65.6  
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



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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°	5923	5923	5923
5°	5904	5841	5821
10°	5911	5766	5728
15°	5915	5686	5601
20°	5914	5600	5466
25°	5907	5484	5300
30°	5880	5364	5115
35°	5852	5235	4938
40°	5807	5090	4751
45°	5764	4947	4583
50°	5704	4798	4378
55°	5663	4621	4191
60°	5624	4433	3942
65°	5643	4183	3684
70°	5773	3934	3383
75°	6061	3601	3002
80°	6457	3163	2525
85°	6781	2735	2067



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.3	2.9
10°-20°	599.0	8.4
20°-30°	909.8	12.7
30°-40°	1098.9	15.4
40°-50°	1150.2	16.1
50°-60°	1067.3	15.0
60°-70°	864.5	12.1
70°-80°	583.4	8.2
80°-90°	281.9	3.9
90°-100°	141.8	2.0
100°-110°	103.1	1.4
110°-120°	68.9	1.0
120°-130°	39.9	0.6
130°-140°	20.1	0.3
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1717.1	24.1
0°-40°	2816.0	39.4
0°-60°	5033.5	70.5
0°-90°	6763.2	94.7
90°-120°	313.8	4.4
90°-150°	375.3	5.3
90°-180°	375.0	5.3
0°-180°	7138.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2194	2190	2190	2186	2186	209
15°	2147	2136	2122	2107	2100	607
25°	2028	2010	1974	1938	1924	934
35°	1834	1808	1758	1704	1679	1147
45°	1578	1549	1491	1430	1405	1215
55°	1279	1250	1192	1135	1106	1143
65°	965	929	864	818	785	958
75°	674	605	537	497	468	710
85°	324	281	238	216	194	306
90°	194	176	151	137	115	111
95°	155	144	130	115	101	122
105°	115	108	97	86	79	123
115°	79	72	72	61	61	79
125°	50	43	47	40	43	44
135°	29	25	25	25	29	22
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



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CATALOG NUMBER: 14ID-70-L850-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2200.9	2197.3	2197.3	2197.3	2197.3
5°	2193.7	2190.1	2190.1	2186.5	2186.5
7.5°	2190.1	2182.9	2179.3	2175.7	2175.7
10°	2179.3	2172.1	2164.9	2157.7	2157.7
12.5°	2164.9	2157.7	2146.9	2132.5	2132.5
15°	2146.9	2136.1	2121.7	2107.3	2100.1
17.5°	2125.3	2114.5	2092.9	2071.3	2064.1
20°	2096.5	2082.1	2060.4	2031.6	2024.4
22.5°	2064.1	2049.6	2017.2	1988.4	1974.0
25°	2028.0	2010.0	1974.0	1938.0	1923.6
27.5°	1984.8	1966.8	1927.2	1883.9	1865.9
30°	1938.0	1916.4	1873.1	1826.3	1804.7
32.5°	1887.5	1862.3	1815.5	1765.1	1743.5
35°	1833.5	1808.3	1757.9	1703.8	1678.6
37.5°	1775.9	1750.7	1696.6	1639.0	1613.8
40°	1711.0	1685.8	1628.2	1570.6	1541.7
42.5°	1642.6	1621.0	1563.3	1502.1	1473.3
45°	1577.8	1548.9	1491.3	1430.1	1404.9
47.5°	1502.1	1480.5	1419.3	1358.0	1329.2
50°	1430.1	1404.9	1347.2	1286.0	1253.6
52.5°	1354.4	1332.8	1271.6	1210.3	1181.5
55°	1278.8	1250.0	1192.3	1134.7	1105.9
57.5°	1199.5	1174.3	1116.7	1062.6	1026.6
60°	1120.3	1095.1	1033.8	983.4	943.8
62.5°	1044.6	1015.8	951.0	896.9	864.5
65°	965.4	929.4	864.5	817.7	785.3
67.5°	889.7	846.5	781.7	738.4	706.0
70°	817.7	767.3	702.4	659.2	626.8
72.5°	745.7	684.4	616.0	576.3	547.5
75°	673.6	605.2	536.7	497.1	468.3
77.5°	601.6	522.3	453.9	421.5	392.6
80°	515.1	439.5	374.6	345.8	317.0
82.5°	417.9	356.6	302.6	273.8	252.2
85°	324.2	281.0	237.7	216.1	194.5
87.5°	252.2	219.7	187.3	169.3	151.3
90°	194.5	176.5	151.3	136.9	115.3
92.5°	169.3	154.9	136.9	122.5	104.5
95°	154.9	144.1	129.7	115.3	100.9
97.5°	140.5	133.3	118.9	108.1	93.7
100°	133.3	122.5	111.7	100.9	90.1
102.5°	126.1	115.3	104.5	93.7	86.5
105°	115.3	108.1	97.3	86.5	79.2
107.5°	108.1	97.3	90.1	79.2	75.6
110°	97.3	90.1	82.9	75.6	72.0



TEST NUMBER: P384265

CATALOG NUMBER: 14ID-70-L850-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	86.5	82.9	75.6	68.4	64.8
115°	79.2	72.0	72.0	61.2	61.2
117.5°	72.0	64.8	64.8	57.6	57.6
120°	61.2	57.6	57.6	50.4	50.4
122.5°	54.0	50.4	50.4	46.8	46.8
125°	50.4	43.2	46.8	39.6	43.2
127.5°	43.2	39.6	39.6	36.0	39.6
130°	36.0	32.4	32.4	32.4	36.0
132.5°	32.4	28.8	28.8	28.8	32.4
135°	28.8	25.2	25.2	25.2	28.8
137.5°	25.2	21.6	18.0	21.6	25.2
140°	21.6	18.0	14.4	18.0	21.6
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)