

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: P384106

Luminaire Tested: **14ID-85-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-85-L830-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

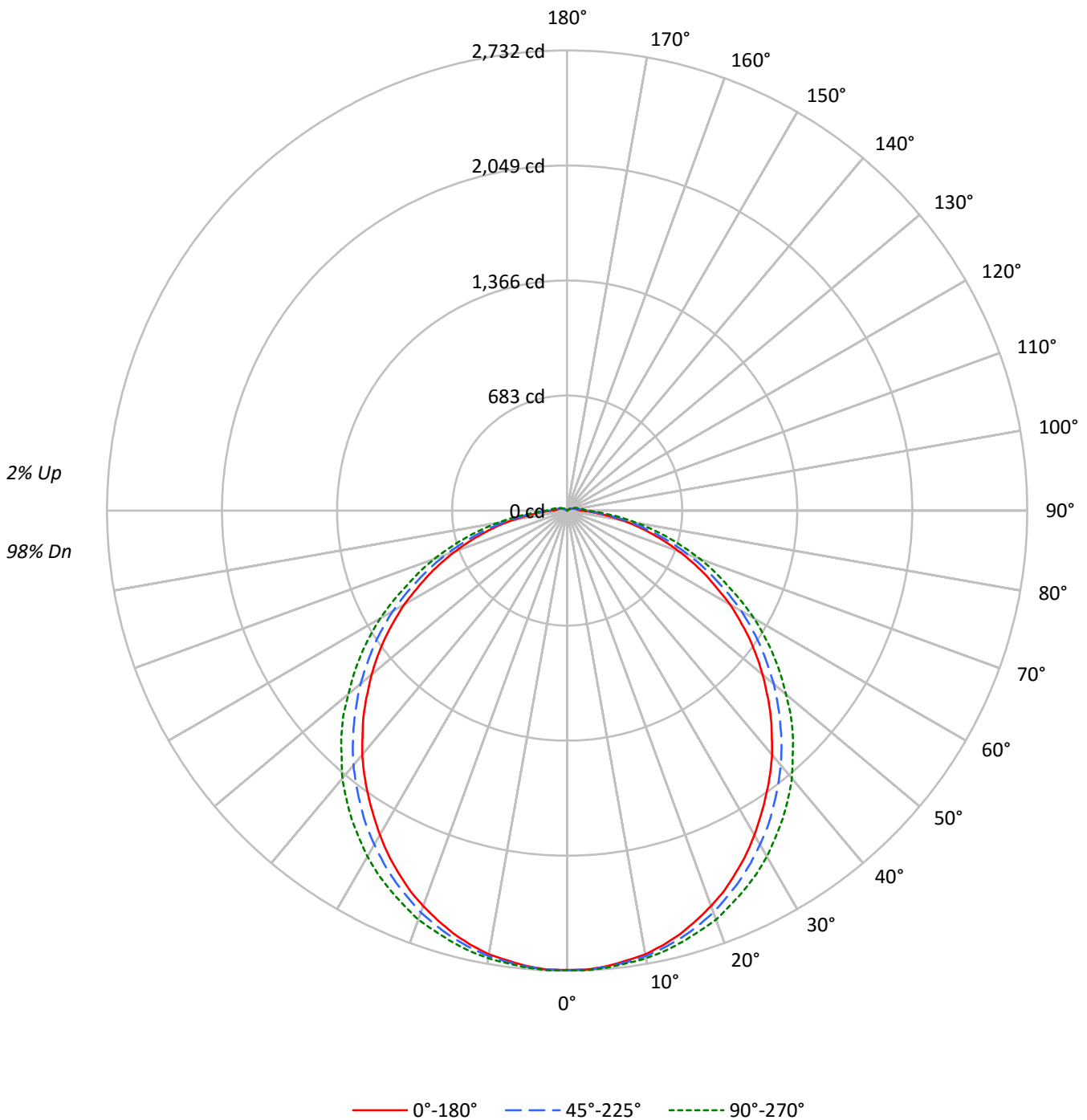
Lumens per Lamp: N/A  
Luminaire Lumens: 8078.0 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 83.3  
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	7340	7340	7340
5°	7321	7299	7303
10°	7281	7247	7268
15°	7205	7172	7221
20°	7100	7081	7183
25°	6973	6960	7105
30°	6828	6823	7030
35°	6670	6679	6928
40°	6532	6531	6817
45°	6367	6344	6661
50°	6190	6163	6457
55°	6008	5946	6267
60°	5808	5708	6029
65°	5542	5360	5664
70°	5242	5011	5375
75°	4899	4543	4937
80°	4540	3985	4396
85°	4392	3434	3756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.3	3.2
10°-20°	740.5	9.2
20°-30°	1118.0	13.8
30°-40°	1339.5	16.6
40°-50°	1384.9	17.1
50°-60°	1254.1	15.5
60°-70°	970.5	12.0
70°-80°	596.1	7.4
80°-90°	236.9	2.9
90°-100°	86.4	1.1
100°-110°	53.1	0.7
110°-120°	27.3	0.3
120°-130°	11.7	0.1
130°-140°	0.8	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2116.7	26.2
0°-40°	3456.3	42.8
0°-60°	6095.3	75.5
0°-90°	7898.8	97.8
90°-120°	166.8	2.1
90°-150°	179.3	2.2
90°-180°	179.0	2.2
0°-180°	8078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2728	2728	2728	2728	2728	
5°	2715	2715	2719	2719	2723	258
15°	2600	2605	2625	2642	2650	733
25°	2371	2388	2424	2465	2486	1093
35°	2060	2084	2138	2195	2232	1290
45°	1708	1728	1790	1863	1896	1316
55°	1319	1347	1401	1462	1495	1178
65°	909	930	975	1024	1048	899
75°	508	532	557	594	622	541
85°	176	188	205	225	238	175
90°	82	94	102	115	123	48
95°	61	70	78	86	94	49
105°	45	45	49	53	57	48
115°	29	25	25	29	33	29
125°	16	12	8	12	16	15
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2727.5	2727.5	2727.5	2727.5	2727.5
2.5°	2727.5	2723.4	2727.5	2727.5	2731.6
5°	2715.2	2715.2	2719.3	2719.3	2723.4
7.5°	2694.7	2694.7	2702.9	2707.0	2711.1
10°	2674.3	2674.3	2686.6	2690.6	2698.8
12.5°	2641.5	2645.6	2657.9	2670.2	2678.4
15°	2600.5	2604.6	2625.1	2641.5	2649.7
17.5°	2551.4	2559.6	2584.2	2608.7	2616.9
20°	2498.2	2510.5	2539.1	2567.8	2584.2
22.5°	2440.8	2449.0	2481.8	2518.6	2535.0
25°	2371.2	2387.6	2424.4	2465.4	2485.9
27.5°	2301.6	2318.0	2358.9	2408.1	2432.6
30°	2223.8	2240.2	2289.3	2342.5	2371.2
32.5°	2141.9	2162.3	2219.7	2272.9	2301.6
35°	2060.0	2084.5	2137.8	2195.1	2232.0
37.5°	1978.1	1998.5	2055.9	2117.3	2154.2
40°	1892.1	1912.5	1974.0	2035.4	2076.3
42.5°	1797.9	1822.4	1883.9	1949.4	1982.2
45°	1707.8	1728.2	1789.7	1863.4	1896.1
47.5°	1609.5	1638.1	1695.5	1765.1	1802.0
50°	1515.3	1539.9	1601.3	1666.8	1695.5
52.5°	1417.0	1441.6	1498.9	1564.4	1597.2
55°	1318.7	1347.4	1400.6	1462.0	1494.8
57.5°	1216.3	1245.0	1298.2	1351.5	1388.3
60°	1118.0	1146.7	1195.8	1249.1	1281.8
62.5°	1007.5	1032.0	1085.3	1142.6	1167.2
65°	909.2	929.6	974.7	1023.8	1048.4
67.5°	806.8	831.4	872.3	917.4	946.0
70°	704.4	733.1	765.8	806.8	839.5
72.5°	606.1	630.7	659.4	700.3	729.0
75°	507.8	532.4	557.0	593.8	622.5
77.5°	421.8	434.1	458.7	491.4	520.1
80°	327.6	344.0	364.5	397.2	417.7
82.5°	245.7	262.1	278.5	303.1	323.5
85°	176.1	188.4	204.8	225.2	237.5
87.5°	118.8	131.1	143.3	159.7	172.0
90°	81.9	94.2	102.4	114.7	122.9
92.5°	69.6	77.8	86.0	94.2	102.4
95°	61.4	69.6	77.8	86.0	94.2
97.5°	57.3	61.4	69.6	77.8	81.9
100°	53.2	57.3	61.4	69.6	73.7
102.5°	49.1	49.1	57.3	61.4	65.5
105°	45.0	45.0	49.1	53.2	57.3
107.5°	41.0	41.0	45.0	45.0	53.2
110°	36.9	32.8	36.9	36.9	45.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.8	28.7	32.8	32.8	36.9
115°	28.7	24.6	24.6	28.7	32.8
117.5°	24.6	20.5	20.5	20.5	28.7
120°	24.6	20.5	16.4	16.4	24.6
122.5°	20.5	16.4	12.3	16.4	20.5
125°	16.4	12.3	8.2	12.3	16.4
127.5°	12.3	12.3	4.1	8.2	12.3
130°	12.3	8.2	4.1	8.2	8.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)