

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: P384195

Luminaire Tested: **24ID-60-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384195  
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: 24ID-60-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

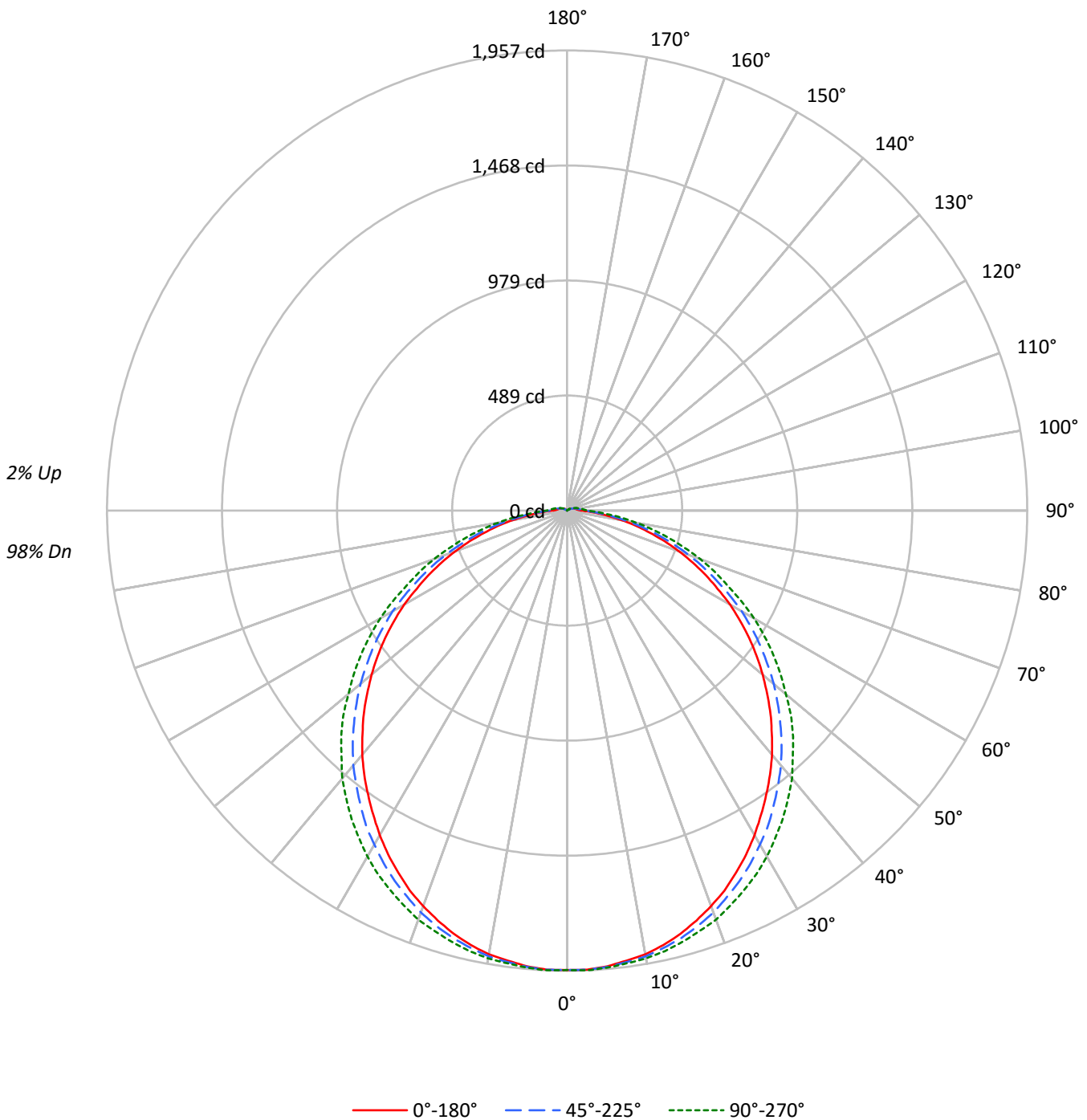
Lumens per Lamp: N/A  
Luminaire Lumens: 5787.6 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 54.5  
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°	2629	2629	2629
5°	2623	2621	2626
10°	2608	2609	2623
15°	2581	2589	2615
20°	2543	2564	2611
25°	2498	2527	2594
30°	2446	2485	2577
35°	2389	2440	2552
40°	2340	2395	2525
45°	2281	2337	2482
50°	2217	2281	2422
55°	2152	2214	2371
60°	2080	2142	2305
65°	1985	2031	2195
70°	1878	1925	2123
75°	1755	1781	2007
80°	1626	1618	1876
85°	1574	1505	1780



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	3.2
10°-20°	530.5	9.2
20°-30°	801.0	13.8
30°-40°	959.7	16.6
40°-50°	992.2	17.1
50°-60°	898.5	15.5
60°-70°	695.3	12.0
70°-80°	427.1	7.4
80°-90°	169.7	2.9
90°-100°	61.9	1.1
100°-110°	38.0	0.7
110°-120°	19.6	0.3
120°-130°	8.3	0.1
130°-140°	0.6	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°	1516.6	26.2
0°-40°	2476.3	42.8
0°-60°	4367.0	75.5
0°-90°	5659.1	97.8
90°-120°	119.5	2.1
90°-150°	128.4	2.2
90°-180°	128.0	2.2
0°-180°	5787.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1945	1945	1948	1948	1951	185
15°	1863	1866	1881	1892	1898	525
25°	1699	1711	1737	1766	1781	783
35°	1476	1494	1532	1573	1599	924
45°	1224	1238	1282	1335	1358	943
55°	945	965	1004	1048	1071	844
65°	651	666	698	734	751	644
75°	364	381	399	426	446	388
85°	126	135	147	161	170	126
90°	59	68	73	82	88	35
95°	44	50	56	62	68	35
105°	32	32	35	38	41	34
115°	20	18	18	20	24	21
125°	12	9	6	9	12	11
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°	1954.2	1954.2	1954.2	1954.2	1954.2
2.5°	1954.2	1951.2	1954.2	1954.2	1957.1
5°	1945.4	1945.4	1948.3	1948.3	1951.2
7.5°	1930.7	1930.7	1936.6	1939.5	1942.4
10°	1916.0	1916.0	1924.8	1927.8	1933.6
12.5°	1892.5	1895.5	1904.3	1913.1	1918.9
15°	1863.2	1866.1	1880.8	1892.5	1898.4
17.5°	1828.0	1833.9	1851.5	1869.1	1874.9
20°	1789.8	1798.6	1819.2	1839.7	1851.5
22.5°	1748.8	1754.6	1778.1	1804.5	1816.3
25°	1698.9	1710.6	1737.0	1766.4	1781.0
27.5°	1649.0	1660.7	1690.1	1725.3	1742.9
30°	1593.3	1605.0	1640.2	1678.3	1698.9
32.5°	1534.6	1549.2	1590.3	1628.5	1649.0
35°	1475.9	1493.5	1531.6	1572.7	1599.1
37.5°	1417.2	1431.9	1473.0	1517.0	1543.4
40°	1355.6	1370.3	1414.3	1458.3	1487.6
42.5°	1288.1	1305.7	1349.7	1396.7	1420.1
45°	1223.6	1238.2	1282.2	1335.0	1358.5
47.5°	1153.1	1173.7	1214.7	1264.6	1291.0
50°	1085.6	1103.2	1147.3	1194.2	1214.7
52.5°	1015.2	1032.8	1073.9	1120.9	1144.3
55°	944.8	965.3	1003.5	1047.5	1071.0
57.5°	871.4	892.0	930.1	968.3	994.7
60°	801.0	821.6	856.8	894.9	918.4
62.5°	721.8	739.4	777.6	818.6	836.2
65°	651.4	666.1	698.3	733.5	751.1
67.5°	578.0	595.6	625.0	657.3	677.8
70°	504.7	525.2	548.7	578.0	601.5
72.5°	434.3	451.9	472.4	501.7	522.3
75°	363.8	381.4	399.0	425.5	446.0
77.5°	302.2	311.0	328.6	352.1	372.6
80°	234.7	246.5	261.1	284.6	299.3
82.5°	176.1	187.8	199.5	217.1	231.8
85°	126.2	135.0	146.7	161.4	170.2
87.5°	85.1	93.9	102.7	114.4	123.2
90°	58.7	67.5	73.4	82.2	88.0
92.5°	49.9	55.7	61.6	67.5	73.4
95°	44.0	49.9	55.7	61.6	67.5
97.5°	41.1	44.0	49.9	55.7	58.7
100°	38.1	41.1	44.0	49.9	52.8
102.5°	35.2	35.2	41.1	44.0	46.9
105°	32.3	32.3	35.2	38.1	41.1
107.5°	29.3	29.3	32.3	32.3	38.1
110°	26.4	23.5	26.4	26.4	32.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.5	20.5	23.5	23.5	26.4
115°	20.5	17.6	17.6	20.5	23.5
117.5°	17.6	14.7	14.7	14.7	20.5
120°	17.6	14.7	11.7	11.7	17.6
122.5°	14.7	11.7	8.8	11.7	14.7
125°	11.7	8.8	5.9	8.8	11.7
127.5°	8.8	8.8	2.9	5.9	8.8
130°	8.8	5.9	2.9	5.9	5.9
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)