

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: P384197

Luminaire Tested: **24ID-60-L850-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384197  
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-L850-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

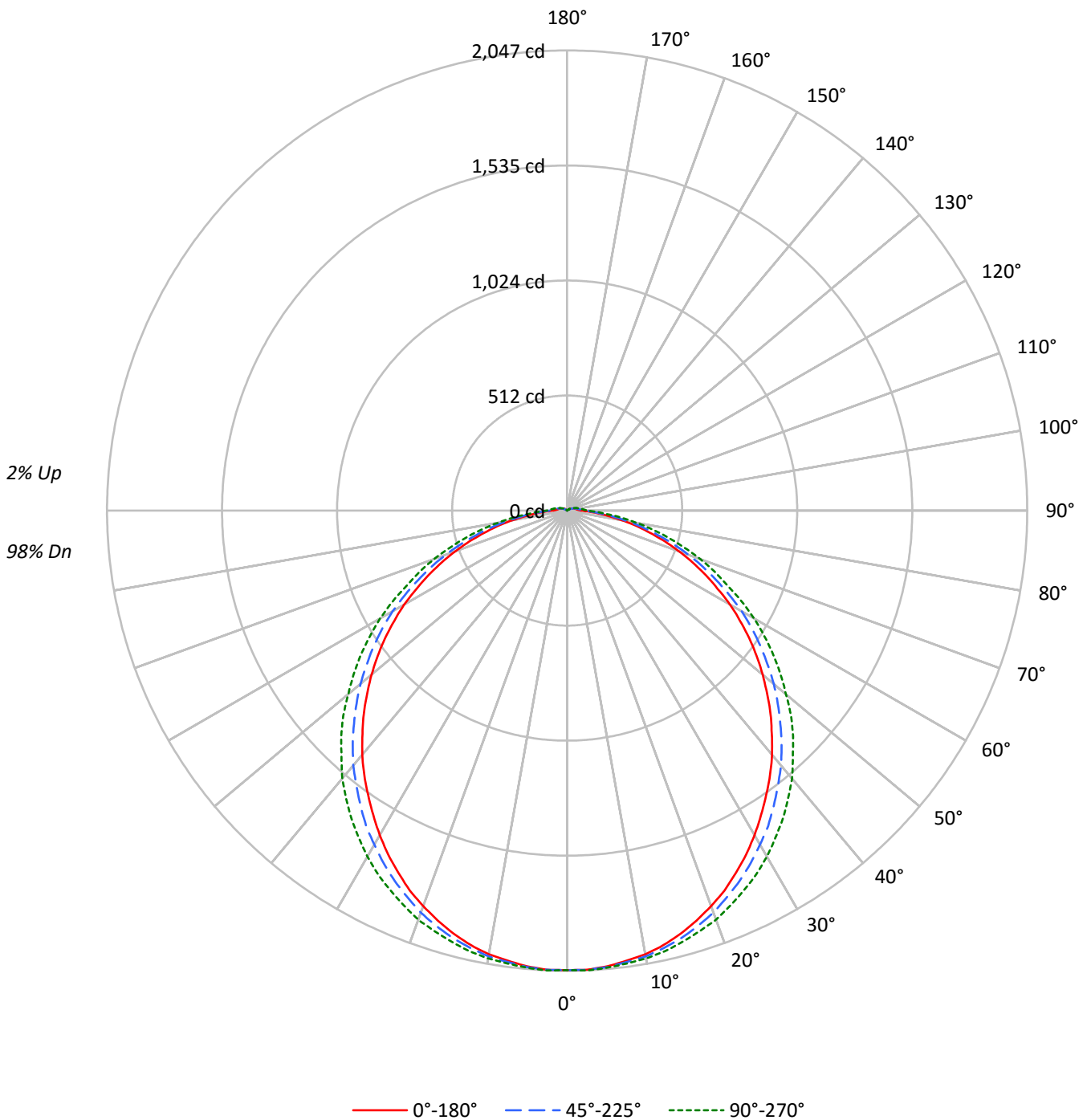
Lumens per Lamp: N/A  
Luminaire Lumens: 6054.7 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 54.6  
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°	2751	2751	2751
5°	2744	2742	2747
10°	2728	2730	2744
15°	2700	2709	2736
20°	2661	2682	2732
25°	2613	2643	2713
30°	2559	2600	2696
35°	2500	2553	2670
40°	2448	2506	2641
45°	2386	2444	2596
50°	2320	2387	2534
55°	2252	2316	2481
60°	2177	2240	2412
65°	2077	2125	2297
70°	1965	2014	2221
75°	1836	1863	2099
80°	1702	1693	1962
85°	1646	1575	1862



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.6	3.2
10°-20°	555.0	9.2
20°-30°	837.9	13.8
30°-40°	1004.0	16.6
40°-50°	1038.0	17.1
50°-60°	940.0	15.5
60°-70°	727.4	12.0
70°-80°	446.8	7.4
80°-90°	177.5	2.9
90°-100°	64.8	1.1
100°-110°	39.8	0.7
110°-120°	20.5	0.3
120°-130°	8.7	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°	1586.6	26.2
0°-40°	2590.6	42.8
0°-60°	4568.6	75.5
0°-90°	5920.3	97.8
90°-120°	125.0	2.1
90°-150°	134.3	2.2
90°-180°	134.0	2.2
0°-180°	6054.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2044	2044	2044	2044	2044	
5°	2035	2035	2038	2038	2041	193
15°	1949	1952	1968	1980	1986	549
25°	1777	1790	1817	1848	1863	819
35°	1544	1562	1602	1645	1673	967
45°	1280	1295	1341	1397	1421	987
55°	988	1010	1050	1096	1120	883
65°	681	697	731	767	786	674
75°	381	399	418	445	467	406
85°	132	141	154	169	178	132
90°	61	71	77	86	92	36
95°	46	52	58	64	71	37
105°	34	34	37	40	43	36
115°	22	18	18	22	25	22
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°	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2044.3	2041.3	2044.3	2044.3	2047.4
5°	2035.1	2035.1	2038.2	2038.2	2041.3
7.5°	2019.8	2019.8	2025.9	2029.0	2032.1
10°	2004.4	2004.4	2013.6	2016.7	2022.9
12.5°	1979.9	1983.0	1992.2	2001.4	2007.5
15°	1949.2	1952.3	1967.6	1979.9	1986.0
17.5°	1912.4	1918.5	1936.9	1955.3	1961.5
20°	1872.4	1881.7	1903.1	1924.6	1936.9
22.5°	1829.5	1835.6	1860.2	1887.8	1900.1
25°	1777.3	1789.6	1817.2	1847.9	1863.2
27.5°	1725.1	1737.4	1768.1	1804.9	1823.3
30°	1666.8	1679.1	1715.9	1755.8	1777.3
32.5°	1605.4	1620.7	1663.7	1703.6	1725.1
35°	1544.0	1562.4	1602.3	1645.3	1672.9
37.5°	1482.6	1498.0	1540.9	1587.0	1614.6
40°	1418.1	1433.5	1479.5	1525.6	1556.3
42.5°	1347.5	1366.0	1412.0	1461.1	1485.7
45°	1280.0	1295.4	1341.4	1396.7	1421.2
47.5°	1206.3	1227.8	1270.8	1323.0	1350.6
50°	1135.7	1154.2	1200.2	1249.3	1270.8
52.5°	1062.1	1080.5	1123.5	1172.6	1197.1
55°	988.4	1009.9	1049.8	1095.8	1120.4
57.5°	911.7	933.2	973.1	1013.0	1040.6
60°	838.0	859.5	896.3	936.2	960.8
62.5°	755.1	773.5	813.4	856.4	874.8
65°	681.4	696.8	730.6	767.4	785.8
67.5°	604.7	623.1	653.8	687.6	709.1
70°	528.0	549.5	574.0	604.7	629.3
72.5°	454.3	472.7	494.2	524.9	546.4
75°	380.6	399.0	417.5	445.1	466.6
77.5°	316.2	325.4	343.8	368.4	389.8
80°	245.6	257.8	273.2	297.7	313.1
82.5°	184.2	196.5	208.7	227.1	242.5
85°	132.0	141.2	153.5	168.8	178.0
87.5°	89.0	98.2	107.4	119.7	128.9
90°	61.4	70.6	76.7	85.9	92.1
92.5°	52.2	58.3	64.5	70.6	76.7
95°	46.0	52.2	58.3	64.5	70.6
97.5°	43.0	46.0	52.2	58.3	61.4
100°	39.9	43.0	46.0	52.2	55.3
102.5°	36.8	36.8	43.0	46.0	49.1
105°	33.8	33.8	36.8	39.9	43.0
107.5°	30.7	30.7	33.8	33.8	39.9
110°	27.6	24.6	27.6	27.6	33.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	24.6	21.5	24.6	24.6	27.6
115°	21.5	18.4	18.4	21.5	24.6
117.5°	18.4	15.3	15.3	15.3	21.5
120°	18.4	15.3	12.3	12.3	18.4
122.5°	15.3	12.3	9.2	12.3	15.3
125°	12.3	9.2	6.1	9.2	12.3
127.5°	9.2	9.2	3.1	6.1	9.2
130°	9.2	6.1	3.1	6.1	6.1
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)