

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: P384369

Luminaire Tested: **24ID-65-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384369  
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: 24ID-65-L850-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

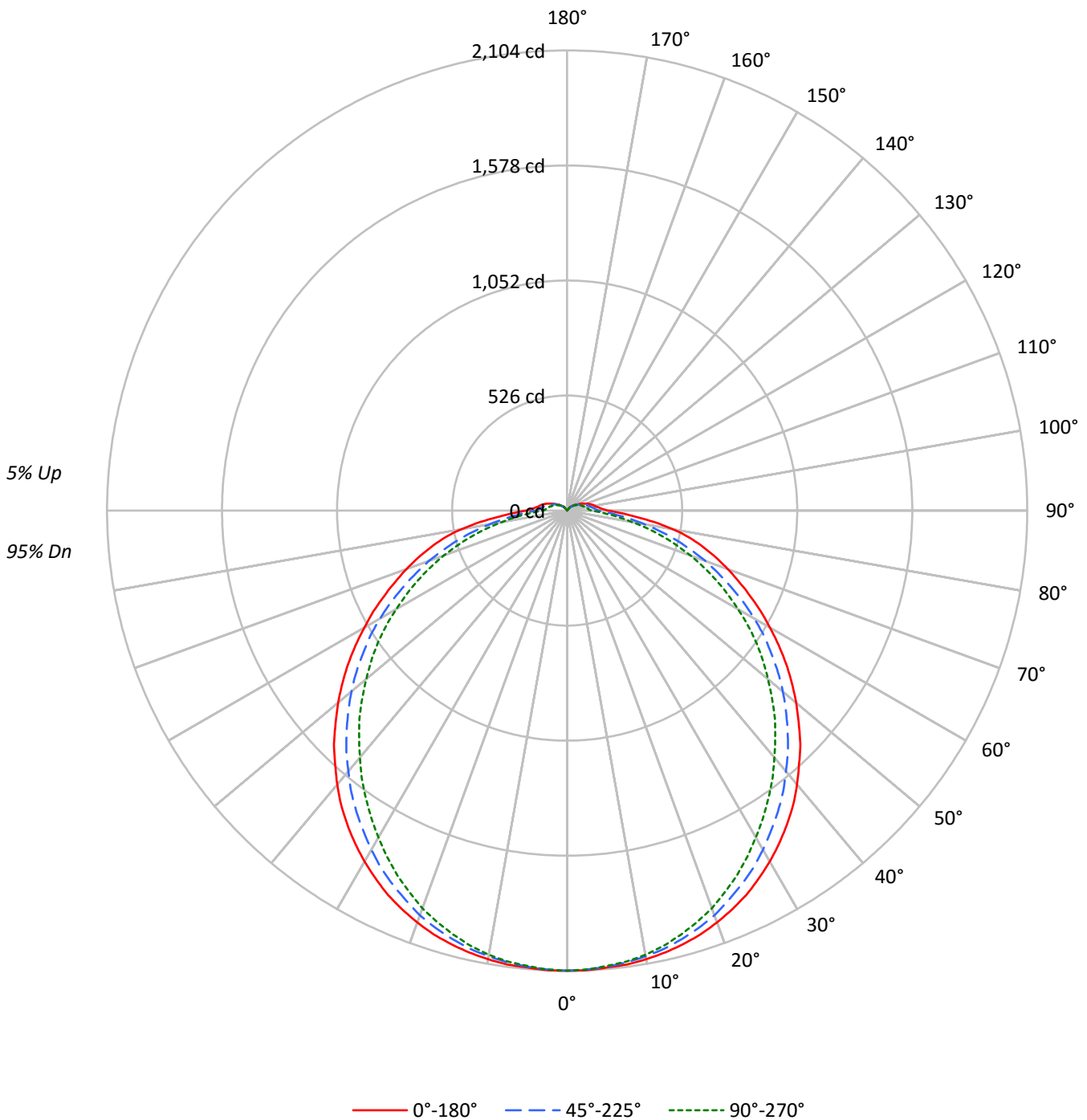
Lumens per Lamp: N/A  
Luminaire Lumens: 6823.6 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 63.6  
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



TEST NUMBER: P384369  
CATALOG NUMBER: 24ID-65-L850-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384369

CATALOG NUMBER: 24ID-65-L850-CFD2

**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°	2831	2831	2831
5°	2822	2806	2803
10°	2825	2784	2777
15°	2827	2760	2735
20°	2827	2732	2689
25°	2823	2690	2628
30°	2811	2647	2557
35°	2797	2599	2490
40°	2776	2545	2419
45°	2755	2492	2359
50°	2726	2439	2282
55°	2706	2374	2216
60°	2688	2306	2121
65°	2697	2212	2027
70°	2759	2125	1918
75°	2897	2005	1775
80°	3086	1848	1594
85°	3241	1746	1470



TEST NUMBER: P384369

CATALOG NUMBER: 24ID-65-L850-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.1	2.9
10°-20°	572.6	8.4
20°-30°	869.7	12.7
30°-40°	1050.4	15.4
40°-50°	1099.5	16.1
50°-60°	1020.2	15.0
60°-70°	826.3	12.1
70°-80°	557.6	8.2
80°-90°	269.4	3.9
90°-100°	135.5	2.0
100°-110°	98.5	1.4
110°-120°	65.9	1.0
120°-130°	38.2	0.6
130°-140°	19.2	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°	1641.3	24.1
0°-40°	2691.8	39.4
0°-60°	4811.4	70.5
0°-90°	6464.8	94.7
90°-120°	299.9	4.4
90°-150°	358.8	5.3
90°-180°	359.0	5.3
0°-180°	6823.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2097	2094	2094	2090	2090	200
15°	2052	2042	2028	2014	2007	580
25°	1939	1921	1887	1852	1839	893
35°	1753	1728	1680	1629	1605	1096
45°	1508	1481	1426	1367	1343	1162
55°	1222	1195	1140	1085	1057	1093
65°	923	888	826	782	751	916
75°	644	578	513	475	448	678
85°	310	269	227	207	186	293
90°	186	169	145	131	110	106
95°	148	138	124	110	96	116
105°	110	103	93	83	76	118
115°	76	69	69	58	58	75
125°	48	41	45	38	41	42
135°	28	24	24	24	28	21
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



TEST NUMBER: P384369

CATALOG NUMBER: 24ID-65-L850-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2103.8	2103.8	2103.8	2103.8	2103.8
2.5°	2103.8	2100.4	2100.4	2100.4	2100.4
5°	2097.0	2093.5	2093.5	2090.1	2090.1
7.5°	2093.5	2086.6	2083.2	2079.7	2079.7
10°	2083.2	2076.3	2069.4	2062.5	2062.5
12.5°	2069.4	2062.5	2052.2	2038.4	2038.4
15°	2052.2	2041.9	2028.1	2014.3	2007.4
17.5°	2031.5	2021.2	2000.5	1979.9	1973.0
20°	2004.0	1990.2	1969.6	1942.0	1935.1
22.5°	1973.0	1959.2	1928.2	1900.7	1886.9
25°	1938.6	1921.4	1886.9	1852.5	1838.7
27.5°	1897.2	1880.0	1842.2	1800.8	1783.6
30°	1852.5	1831.8	1790.5	1745.7	1725.1
32.5°	1804.3	1780.2	1735.4	1687.2	1666.5
35°	1752.6	1728.5	1680.3	1628.7	1604.6
37.5°	1697.5	1673.4	1621.8	1566.7	1542.6
40°	1635.6	1611.5	1556.4	1501.3	1473.7
42.5°	1570.1	1549.5	1494.4	1435.8	1408.3
45°	1508.2	1480.6	1425.5	1367.0	1342.9
47.5°	1435.8	1415.2	1356.7	1298.1	1270.6
50°	1367.0	1342.9	1287.8	1229.3	1198.3
52.5°	1294.7	1274.0	1215.5	1156.9	1129.4
55°	1222.4	1194.8	1139.7	1084.6	1057.1
57.5°	1146.6	1122.5	1067.4	1015.8	981.3
60°	1070.9	1046.8	988.2	940.0	902.1
62.5°	998.6	971.0	909.0	857.4	826.4
65°	922.8	888.4	826.4	781.6	750.6
67.5°	850.5	809.2	747.2	705.9	674.9
70°	781.6	733.4	671.4	630.1	599.1
72.5°	712.8	654.2	588.8	550.9	523.4
75°	643.9	578.5	513.0	475.2	447.6
77.5°	575.0	499.3	433.9	402.9	375.3
80°	492.4	420.1	358.1	330.6	303.0
82.5°	399.4	340.9	289.2	261.7	241.0
85°	309.9	268.6	227.3	206.6	185.9
87.5°	241.0	210.0	179.1	161.8	144.6
90°	185.9	168.7	144.6	130.8	110.2
92.5°	161.8	148.1	130.8	117.1	99.9
95°	148.1	137.7	124.0	110.2	96.4
97.5°	134.3	127.4	113.6	103.3	89.5
100°	127.4	117.1	106.7	96.4	86.1
102.5°	120.5	110.2	99.9	89.5	82.6
105°	110.2	103.3	93.0	82.6	75.8
107.5°	103.3	93.0	86.1	75.8	72.3
110°	93.0	86.1	79.2	72.3	68.9



TEST NUMBER: P384369

CATALOG NUMBER: 24ID-65-L850-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	82.6	79.2	72.3	65.4	62.0
115°	75.8	68.9	68.9	58.5	58.5
117.5°	68.9	62.0	62.0	55.1	55.1
120°	58.5	55.1	55.1	48.2	48.2
122.5°	51.6	48.2	48.2	44.8	44.8
125°	48.2	41.3	44.8	37.9	41.3
127.5°	41.3	37.9	37.9	34.4	37.9
130°	34.4	31.0	31.0	31.0	34.4
132.5°	31.0	27.5	27.5	27.5	31.0
135°	27.5	24.1	24.1	24.1	27.5
137.5°	24.1	20.7	17.2	20.7	24.1
140°	20.7	17.2	13.8	17.2	20.7
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)