

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: P384358

Luminaire Tested: **24ID-55-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384358  
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-55-L830-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

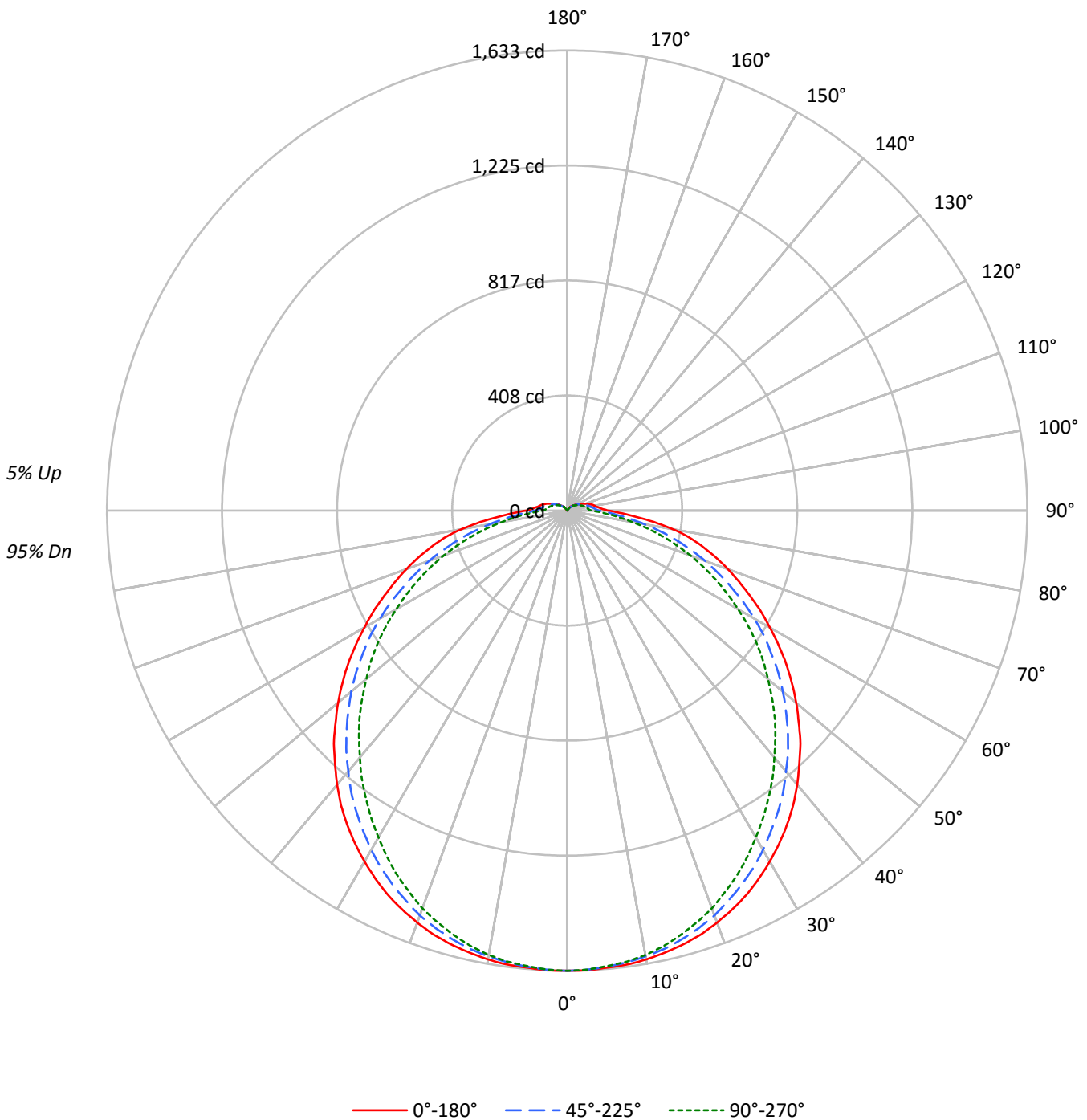
Lumens per Lamp: N/A  
Luminaire Lumens: 5297.8 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 50.2  
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: P384358  
CATALOG NUMBER: 24ID-55-L830-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384358

CATALOG NUMBER: 24ID-55-L830-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°	2198	2198	2198
5°	2191	2178	2176
10°	2194	2161	2156
15°	2195	2143	2124
20°	2195	2121	2088
25°	2192	2089	2040
30°	2182	2055	1985
35°	2172	2018	1933
40°	2155	1976	1878
45°	2139	1935	1831
50°	2116	1893	1771
55°	2101	1843	1720
60°	2087	1790	1647
65°	2094	1717	1574
70°	2142	1650	1489
75°	2249	1557	1378
80°	2396	1435	1238
85°	2516	1355	1142



TEST NUMBER: P384358

CATALOG NUMBER: 24ID-55-L830-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	2.9
10°-20°	444.5	8.4
20°-30°	675.2	12.7
30°-40°	815.6	15.4
40°-50°	853.6	16.1
50°-60°	792.1	15.0
60°-70°	641.6	12.1
70°-80°	432.9	8.2
80°-90°	209.2	3.9
90°-100°	105.2	2.0
100°-110°	76.5	1.4
110°-120°	51.1	1.0
120°-130°	29.6	0.6
130°-140°	14.9	0.3
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1274.3	24.1
0°-40°	2089.9	39.4
0°-60°	3735.5	70.5
0°-90°	5019.2	94.7
90°-120°	232.8	4.4
90°-150°	278.6	5.3
90°-180°	279.0	5.3
0°-180°	5297.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1628	1625	1625	1623	1623	155
15°	1593	1585	1575	1564	1559	450
25°	1505	1492	1465	1438	1428	694
35°	1361	1342	1305	1264	1246	851
45°	1171	1150	1107	1061	1043	902
55°	949	928	885	842	821	848
65°	716	690	642	607	583	711
75°	500	449	398	369	348	527
85°	241	208	176	160	144	227
90°	144	131	112	102	86	82
95°	115	107	96	86	75	90
105°	86	80	72	64	59	91
115°	59	54	54	45	45	59
125°	37	32	35	29	32	33
135°	21	19	19	19	21	17
145°	0	0	0	0	0	1
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: P384358

CATALOG NUMBER: 24ID-55-L830-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1633.4	1633.4	1633.4	1633.4	1633.4
2.5°	1633.4	1630.7	1630.7	1630.7	1630.7
5°	1628.1	1625.4	1625.4	1622.7	1622.7
7.5°	1625.4	1620.0	1617.4	1614.7	1614.7
10°	1617.4	1612.0	1606.7	1601.3	1601.3
12.5°	1606.7	1601.3	1593.3	1582.6	1582.6
15°	1593.3	1585.3	1574.6	1563.9	1558.6
17.5°	1577.3	1569.3	1553.2	1537.2	1531.8
20°	1555.9	1545.2	1529.2	1507.8	1502.4
22.5°	1531.8	1521.1	1497.1	1475.7	1465.0
25°	1505.1	1491.7	1465.0	1438.3	1427.6
27.5°	1473.0	1459.6	1430.2	1398.2	1384.8
30°	1438.3	1422.2	1390.1	1355.4	1339.3
32.5°	1400.8	1382.1	1347.4	1309.9	1293.9
35°	1360.7	1342.0	1304.6	1264.5	1245.8
37.5°	1318.0	1299.2	1259.1	1216.4	1197.7
40°	1269.8	1251.1	1208.4	1165.6	1144.2
42.5°	1219.0	1203.0	1160.2	1114.8	1093.4
45°	1170.9	1149.5	1106.8	1061.3	1042.6
47.5°	1114.8	1098.7	1053.3	1007.8	986.5
50°	1061.3	1042.6	999.8	954.4	930.3
52.5°	1005.2	989.1	943.7	898.2	876.9
55°	949.0	927.6	884.9	842.1	820.7
57.5°	890.2	871.5	828.7	788.6	761.9
60°	831.4	812.7	767.2	729.8	700.4
62.5°	775.3	753.9	705.8	665.7	641.6
65°	716.5	689.7	641.6	606.8	582.8
67.5°	660.3	628.2	580.1	548.0	524.0
70°	606.8	569.4	521.3	489.2	465.2
72.5°	553.4	507.9	457.1	427.7	406.3
75°	499.9	449.1	398.3	368.9	347.5
77.5°	446.4	387.6	336.8	312.8	291.4
80°	382.3	326.1	278.0	256.6	235.3
82.5°	310.1	264.7	224.6	203.2	187.1
85°	240.6	208.5	176.4	160.4	144.4
87.5°	187.1	163.1	139.0	125.6	112.3
90°	144.4	131.0	112.3	101.6	85.5
92.5°	125.6	115.0	101.6	90.9	77.5
95°	115.0	106.9	96.2	85.5	74.9
97.5°	104.3	98.9	88.2	80.2	69.5
100°	98.9	90.9	82.9	74.9	66.8
102.5°	93.6	85.5	77.5	69.5	64.2
105°	85.5	80.2	72.2	64.2	58.8
107.5°	80.2	72.2	66.8	58.8	56.1
110°	72.2	66.8	61.5	56.1	53.5



TEST NUMBER: P384358

CATALOG NUMBER: 24ID-55-L830-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	64.2	61.5	56.1	50.8	48.1
115°	58.8	53.5	53.5	45.4	45.4
117.5°	53.5	48.1	48.1	42.8	42.8
120°	45.4	42.8	42.8	37.4	37.4
122.5°	40.1	37.4	37.4	34.8	34.8
125°	37.4	32.1	34.8	29.4	32.1
127.5°	32.1	29.4	29.4	26.7	29.4
130°	26.7	24.1	24.1	24.1	26.7
132.5°	24.1	21.4	21.4	21.4	24.1
135°	21.4	18.7	18.7	18.7	21.4
137.5°	18.7	16.0	13.4	16.0	18.7
140°	16.0	13.4	10.7	13.4	16.0
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)