

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: P384706

Luminaire Tested: **24ID-70-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-70-L830-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

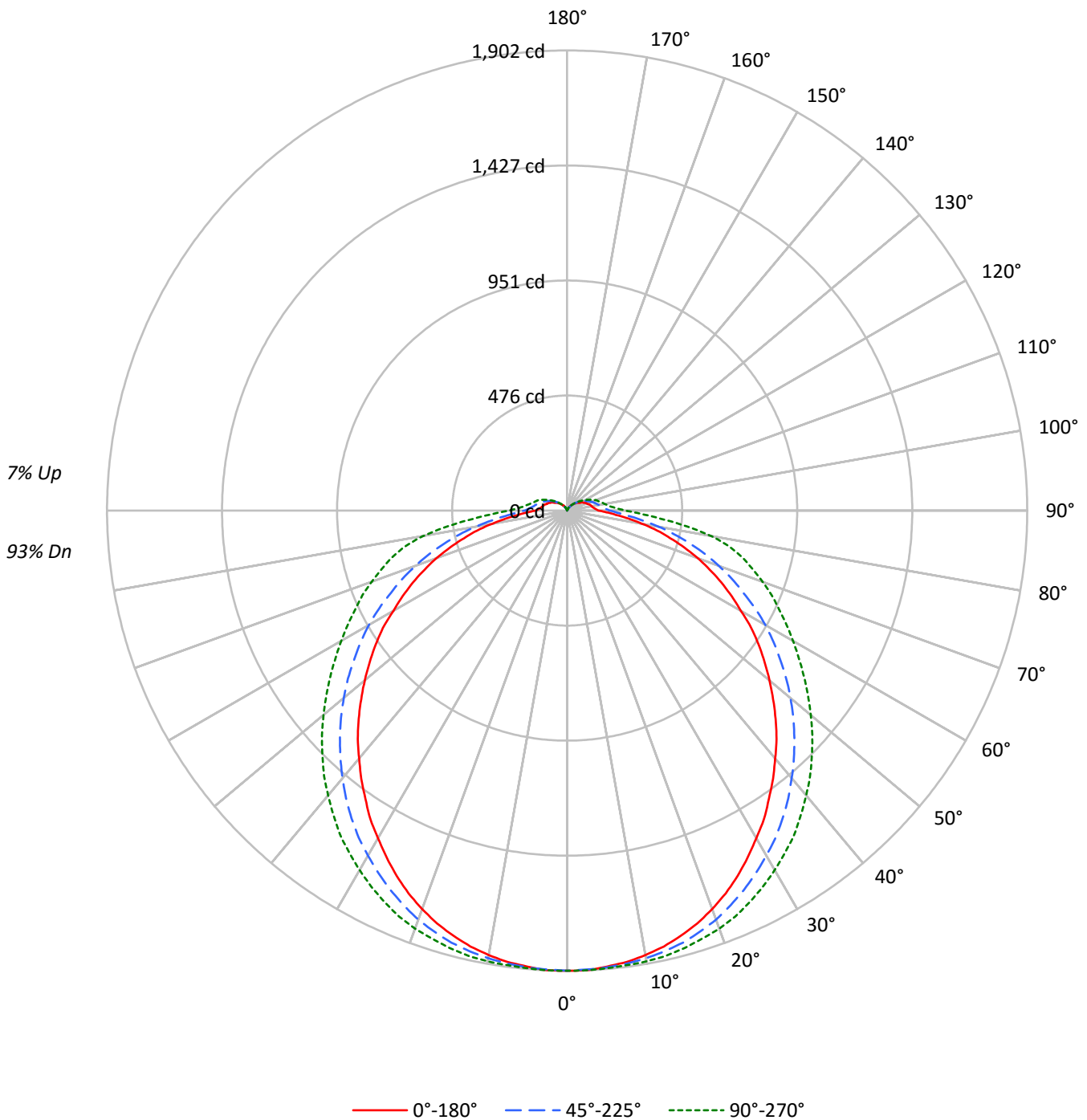
Lumens per Lamp: N/A
Luminaire Lumens: 6655.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 65.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P384706
CATALOG NUMBER: 24ID-70-L830-CFD3

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2559	2559	2559
5°	2541	2530	2537
10°	2521	2508	2529
15°	2492	2487	2523
20°	2453	2457	2518
25°	2404	2418	2505
30°	2344	2376	2487
35°	2288	2335	2472
40°	2232	2282	2443
45°	2181	2231	2420
50°	2127	2178	2395
55°	2080	2121	2378
60°	2015	2070	2386
65°	1976	1991	2425
70°	1928	1924	2517
75°	1861	1824	2659
80°	1804	1703	2739
85°	1823	1569	2468



TEST NUMBER: P384706

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	2.7
10°-20°	521.1	7.8
20°-30°	796.2	12.0
30°-40°	969.2	14.6
40°-50°	1024.4	15.4
50°-60°	967.0	14.5
60°-70°	813.5	12.2
70°-80°	586.5	8.8
80°-90°	309.3	4.6
90°-100°	165.6	2.5
100°-110°	125.7	1.9
110°-120°	91.2	1.4
120°-130°	57.3	0.9
130°-140°	30.9	0.5
140°-150°	13.5	0.2
150°-160°	3.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1497.7	22.5
0°-40°	2466.8	37.1
0°-60°	4458.2	67.0
0°-90°	6167.5	92.7
90°-120°	382.5	5.7
90°-150°	484.2	7.3
90°-180°	488.0	7.3
0°-180°	6655.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1892	1892	1895	1895	1899	180
15°	1819	1826	1849	1862	1872	513
25°	1666	1686	1729	1769	1786	767
35°	1454	1487	1553	1613	1636	910
45°	1218	1255	1328	1401	1431	940
55°	966	1009	1075	1155	1195	863
65°	704	744	803	903	966	696
75°	442	478	524	627	750	469
85°	202	229	256	319	388	190
90°	129	153	176	209	239	74
95°	113	129	149	169	183	90
105°	96	106	120	133	139	101
115°	76	83	93	100	106	77
125°	56	56	66	66	70	51
135°	40	36	40	40	43	30
145°	23	20	20	20	23	15
155°	10	10	3	7	10	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384706

CATALOG NUMBER: 24ID-70-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1901.9	1898.6	1898.6	1898.6	1901.9
5°	1891.9	1891.9	1895.3	1895.3	1898.6
7.5°	1882.0	1882.0	1888.6	1891.9	1895.3
10°	1865.4	1868.7	1878.7	1885.3	1891.9
12.5°	1845.5	1848.8	1865.4	1878.7	1885.3
15°	1818.9	1825.6	1848.8	1862.1	1872.0
17.5°	1789.1	1799.0	1825.6	1845.5	1855.4
20°	1752.5	1765.8	1799.0	1825.6	1838.8
22.5°	1712.7	1726.0	1765.8	1799.0	1815.6
25°	1666.2	1686.2	1729.3	1769.1	1785.7
27.5°	1616.5	1639.7	1689.5	1735.9	1752.5
30°	1563.3	1589.9	1646.3	1696.1	1716.0
32.5°	1513.6	1540.1	1603.2	1656.3	1676.2
35°	1453.8	1487.0	1553.4	1613.1	1636.4
37.5°	1397.4	1430.6	1500.3	1563.3	1586.6
40°	1337.6	1370.8	1443.9	1513.6	1536.8
42.5°	1281.2	1314.4	1387.4	1460.5	1487.0
45°	1218.1	1254.7	1327.7	1400.7	1430.6
47.5°	1155.1	1191.6	1267.9	1344.3	1374.2
50°	1092.0	1131.8	1204.9	1281.2	1314.4
52.5°	1029.0	1068.8	1141.8	1221.5	1254.7
55°	965.9	1009.0	1075.4	1155.1	1194.9
57.5°	902.8	946.0	1012.4	1095.3	1135.2
60°	829.8	879.6	946.0	1032.3	1078.7
62.5°	766.7	809.9	876.3	965.9	1022.3
65°	703.7	743.5	803.2	902.8	965.9
67.5°	637.3	680.4	736.9	829.8	916.1
70°	574.2	610.7	667.2	763.4	859.7
72.5°	507.8	544.4	597.5	697.0	803.2
75°	441.5	478.0	524.4	627.3	750.1
77.5°	381.7	411.6	454.7	554.3	687.1
80°	315.3	345.2	385.0	474.6	604.1
82.5°	255.6	282.1	315.3	395.0	497.9
85°	202.5	229.0	255.6	318.6	388.3
87.5°	162.6	182.6	209.1	255.6	302.0
90°	129.4	152.7	175.9	209.1	239.0
92.5°	119.5	139.4	159.3	185.9	205.8
95°	112.9	129.4	149.4	169.3	182.6
97.5°	106.2	122.8	139.4	159.3	169.3
100°	102.9	116.2	132.8	149.4	156.0
102.5°	99.6	109.5	126.1	139.4	149.4
105°	96.3	106.2	119.5	132.8	139.4
107.5°	89.6	99.6	112.9	126.1	132.8
110°	86.3	92.9	106.2	116.2	126.1



TEST NUMBER: P384706

CATALOG NUMBER: 24ID-70-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	83.0	89.6	99.6	109.5	116.2
115°	76.3	83.0	92.9	99.6	106.2
117.5°	73.0	76.3	86.3	89.6	96.3
120°	66.4	69.7	79.7	83.0	86.3
122.5°	59.7	63.1	73.0	73.0	79.7
125°	56.4	56.4	66.4	66.4	69.7
127.5°	53.1	53.1	59.7	59.7	63.1
130°	46.5	46.5	53.1	53.1	53.1
132.5°	43.1	39.8	46.5	46.5	49.8
135°	39.8	36.5	39.8	39.8	43.1
137.5°	33.2	33.2	36.5	33.2	36.5
140°	29.9	26.6	29.9	29.9	33.2
142.5°	26.6	23.2	26.6	23.2	26.6
145°	23.2	19.9	19.9	19.9	23.2
147.5°	19.9	16.6	16.6	16.6	19.9
150°	16.6	13.3	13.3	13.3	16.6
152.5°	13.3	10.0	6.6	10.0	13.3
155°	10.0	10.0	3.3	6.6	10.0
157.5°	6.6	6.6	0.0	3.3	6.6
160°	3.3	3.3	0.0	3.3	3.3
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)