

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: P384370

Luminaire Tested: **24ID-70-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384370
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-70-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

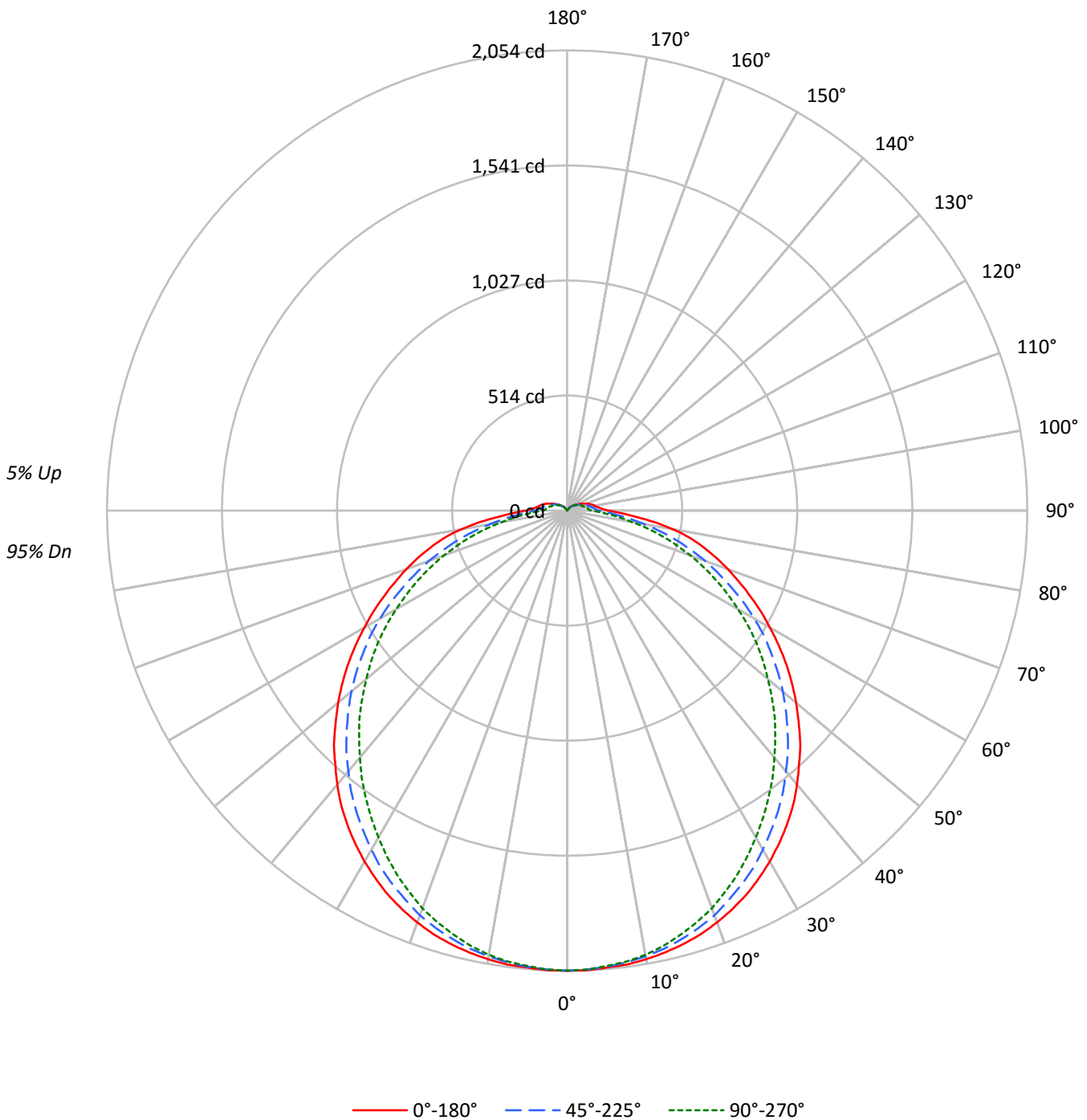
Lumens per Lamp: N/A
Luminaire Lumens: 6661.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.6
Input Voltage (V): NR
Input Current (Ain): 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	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°	2763	2763	2763
5°	2755	2739	2736
10°	2758	2718	2711
15°	2760	2694	2670
20°	2759	2667	2625
25°	2756	2626	2565
30°	2743	2584	2496
35°	2731	2537	2431
40°	2710	2484	2362
45°	2689	2433	2303
50°	2661	2381	2227
55°	2642	2317	2163
60°	2624	2251	2071
65°	2633	2159	1979
70°	2693	2075	1872
75°	2828	1958	1733
80°	3013	1804	1556
85°	3163	1703	1435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	2.9
10°-20°	558.9	8.4
20°-30°	848.9	12.7
30°-40°	1025.4	15.4
40°-50°	1073.3	16.1
50°-60°	995.9	15.0
60°-70°	806.6	12.1
70°-80°	544.4	8.2
80°-90°	263.0	3.9
90°-100°	132.3	2.0
100°-110°	96.2	1.4
110°-120°	64.3	1.0
120°-130°	37.3	0.6
130°-140°	18.8	0.3
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1602.2	24.1
0°-40°	2627.6	39.4
0°-60°	4696.8	70.5
0°-90°	6310.8	94.7
90°-120°	292.7	4.4
90°-150°	350.2	5.3
90°-180°	350.0	5.3
0°-180°	6661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2047	2044	2044	2040	2040	195
15°	2003	1993	1980	1966	1960	566
25°	1892	1876	1842	1808	1795	872
35°	1711	1687	1640	1590	1566	1070
45°	1472	1445	1392	1334	1311	1134
55°	1193	1166	1113	1059	1032	1067
65°	901	867	807	763	733	894
75°	629	565	501	464	437	662
85°	302	262	222	202	182	286
90°	182	165	141	128	108	104
95°	144	134	121	108	94	114
105°	108	101	91	81	74	115
115°	74	67	67	57	57	74
125°	47	40	44	37	40	41
135°	27	24	24	24	27	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.7	2053.7	2053.7	2053.7	2053.7
2.5°	2053.7	2050.4	2050.4	2050.4	2050.4
5°	2047.0	2043.6	2043.6	2040.3	2040.3
7.5°	2043.6	2036.9	2033.5	2030.2	2030.2
10°	2033.5	2026.8	2020.1	2013.4	2013.4
12.5°	2020.1	2013.4	2003.3	1989.8	1989.8
15°	2003.3	1993.2	1979.8	1966.3	1959.6
17.5°	1983.1	1973.0	1952.9	1932.7	1926.0
20°	1956.2	1942.8	1922.6	1895.7	1889.0
22.5°	1926.0	1912.5	1882.3	1855.4	1842.0
25°	1892.4	1875.6	1842.0	1808.3	1794.9
27.5°	1852.0	1835.2	1798.3	1757.9	1741.1
30°	1808.3	1788.2	1747.8	1704.1	1684.0
32.5°	1761.3	1737.8	1694.1	1647.0	1626.8
35°	1710.9	1687.3	1640.3	1589.9	1566.3
37.5°	1657.1	1633.6	1583.1	1529.4	1505.8
40°	1596.6	1573.1	1519.3	1465.5	1438.6
42.5°	1532.7	1512.6	1458.8	1401.6	1374.7
45°	1472.2	1445.3	1391.5	1334.4	1310.9
47.5°	1401.6	1381.5	1324.3	1267.2	1240.3
50°	1334.4	1310.9	1257.1	1200.0	1169.7
52.5°	1263.8	1243.7	1186.5	1129.4	1102.5
55°	1193.2	1166.3	1112.6	1058.8	1031.9
57.5°	1119.3	1095.8	1042.0	991.6	958.0
60°	1045.3	1021.8	964.7	917.6	880.6
62.5°	974.8	947.9	887.4	836.9	806.7
65°	900.8	867.2	806.7	763.0	732.7
67.5°	830.2	789.9	729.4	689.1	658.8
70°	763.0	715.9	655.4	615.1	584.9
72.5°	695.8	638.6	574.8	537.8	510.9
75°	628.6	564.7	500.8	463.8	437.0
77.5°	561.3	487.4	423.5	393.3	366.4
80°	480.7	410.1	349.6	322.7	295.8
82.5°	389.9	332.8	282.3	255.5	235.3
85°	302.5	262.2	221.8	201.7	181.5
87.5°	235.3	205.0	174.8	158.0	141.2
90°	181.5	164.7	141.2	127.7	107.6
92.5°	158.0	144.5	127.7	114.3	97.5
95°	144.5	134.4	121.0	107.6	94.1
97.5°	131.1	124.4	110.9	100.8	87.4
100°	124.4	114.3	104.2	94.1	84.0
102.5°	117.6	107.6	97.5	87.4	80.7
105°	107.6	100.8	90.8	80.7	73.9
107.5°	100.8	90.8	84.0	73.9	70.6
110°	90.8	84.0	77.3	70.6	67.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.7	77.3	70.6	63.9	60.5
115°	73.9	67.2	67.2	57.1	57.1
117.5°	67.2	60.5	60.5	53.8	53.8
120°	57.1	53.8	53.8	47.1	47.1
122.5°	50.4	47.1	47.1	43.7	43.7
125°	47.1	40.3	43.7	37.0	40.3
127.5°	40.3	37.0	37.0	33.6	37.0
130°	33.6	30.3	30.3	30.3	33.6
132.5°	30.3	26.9	26.9	26.9	30.3
135°	26.9	23.5	23.5	23.5	26.9
137.5°	23.5	20.2	16.8	20.2	23.5
140°	20.2	16.8	13.4	16.8	20.2
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)