

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: P384206

Luminaire Tested: **24ID-75-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384206
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-75-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

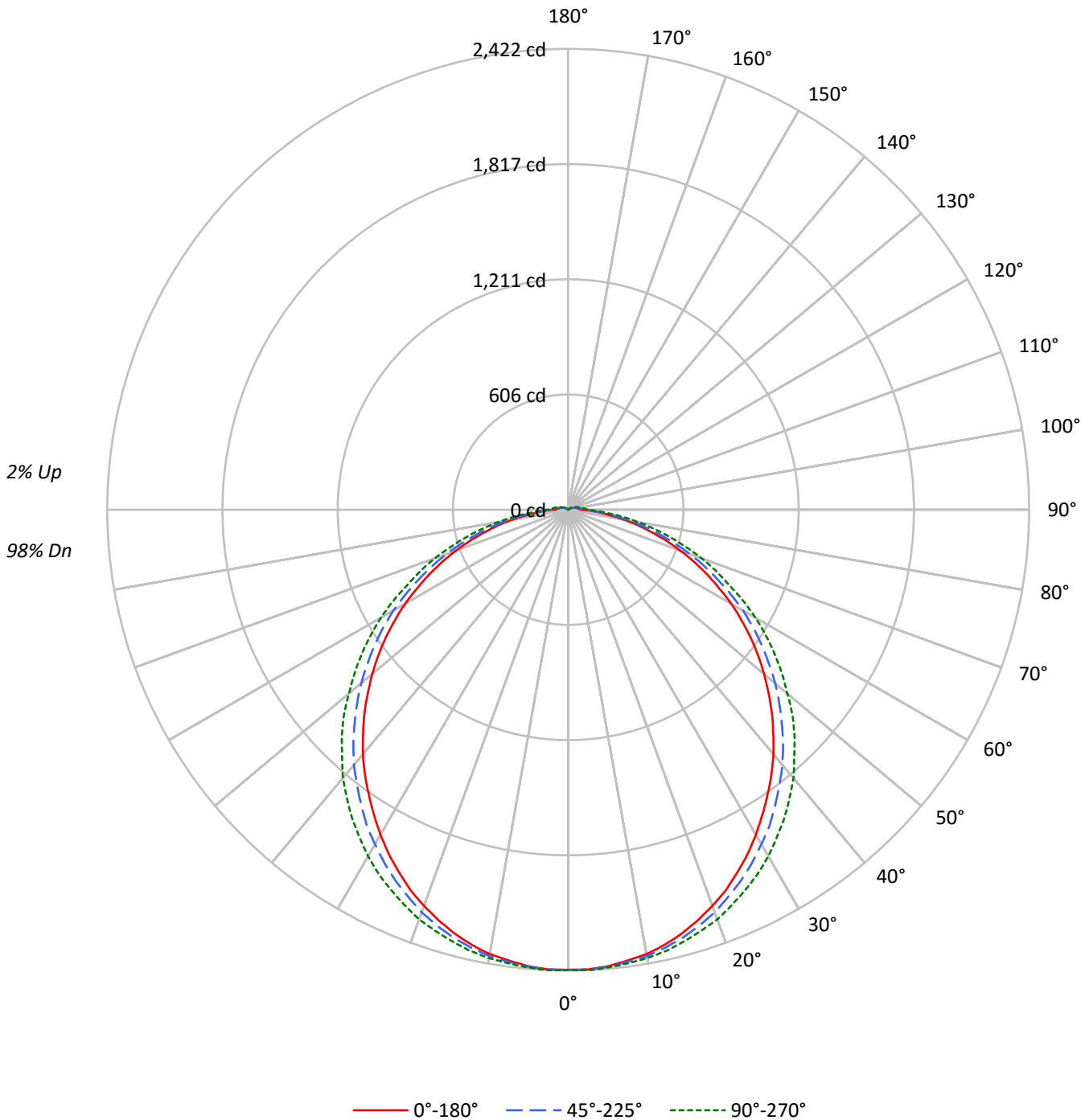
Lumens per Lamp: N/A
Luminaire Lumens: 7163.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 70.8
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: P384206
CATALOG NUMBER: 24ID-75-L830-CFD1

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°	3254	3254	3254
5°	3246	3244	3250
10°	3228	3230	3246
15°	3194	3205	3237
20°	3148	3173	3232
25°	3092	3127	3210
30°	3027	3075	3190
35°	2957	3020	3159
40°	2896	2965	3125
45°	2823	2892	3071
50°	2745	2823	2998
55°	2664	2741	2935
60°	2575	2651	2853
65°	2457	2514	2717
70°	2324	2382	2628
75°	2172	2204	2484
80°	2013	2003	2322
85°	1948	1863	2203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	3.2
10°-20°	656.6	9.2
20°-30°	991.4	13.8
30°-40°	1187.8	16.6
40°-50°	1228.1	17.1
50°-60°	1112.1	15.5
60°-70°	860.6	12.0
70°-80°	528.6	7.4
80°-90°	210.0	2.9
90°-100°	76.6	1.1
100°-110°	47.1	0.7
110°-120°	24.2	0.3
120°-130°	10.3	0.1
130°-140°	0.7	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°	1877.0	26.2
0°-40°	3064.8	42.8
0°-60°	5405.0	75.5
0°-90°	7004.2	97.8
90°-120°	147.9	2.1
90°-150°	159.0	2.2
90°-180°	159.0	2.2
0°-180°	7163.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2419	2419	2419	2419	2419	
5°	2408	2408	2411	2411	2415	229
15°	2306	2310	2328	2342	2350	650
25°	2103	2117	2150	2186	2204	969
35°	1827	1848	1896	1946	1979	1144
45°	1514	1532	1587	1652	1681	1167
55°	1169	1195	1242	1296	1326	1045
65°	806	824	864	908	930	798
75°	450	472	494	527	552	480
85°	156	167	182	200	211	156
90°	73	84	91	102	109	43
95°	54	62	69	76	84	44
105°	40	40	44	47	51	42
115°	25	22	22	25	29	26
125°	14	11	7	11	14	14
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



TEST NUMBER: P384206

CATALOG NUMBER: 24ID-75-L830-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2418.6	2418.6	2418.6	2418.6	2418.6
2.5°	2418.6	2415.0	2418.6	2418.6	2422.3
5°	2407.7	2407.7	2411.4	2411.4	2415.0
7.5°	2389.6	2389.6	2396.8	2400.5	2404.1
10°	2371.4	2371.4	2382.3	2385.9	2393.2
12.5°	2342.4	2346.0	2356.9	2367.8	2375.0
15°	2306.0	2309.7	2327.8	2342.4	2349.6
17.5°	2262.5	2269.7	2291.5	2313.3	2320.6
20°	2215.3	2226.2	2251.6	2277.0	2291.5
22.5°	2164.4	2171.7	2200.7	2233.4	2247.9
25°	2102.7	2117.2	2149.9	2186.2	2204.4
27.5°	2040.9	2055.5	2091.8	2135.4	2157.2
30°	1971.9	1986.5	2030.0	2077.3	2102.7
32.5°	1899.3	1917.5	1968.3	2015.5	2040.9
35°	1826.7	1848.5	1895.7	1946.5	1979.2
37.5°	1754.0	1772.2	1823.0	1877.5	1910.2
40°	1677.8	1695.9	1750.4	1804.9	1841.2
42.5°	1594.3	1616.0	1670.5	1728.6	1757.7
45°	1514.4	1532.5	1587.0	1652.4	1681.4
47.5°	1427.2	1452.6	1503.5	1565.2	1597.9
50°	1343.7	1365.5	1419.9	1478.0	1503.5
52.5°	1256.5	1278.3	1329.2	1387.3	1416.3
55°	1169.4	1194.8	1242.0	1296.5	1325.5
57.5°	1078.6	1104.0	1151.2	1198.4	1231.1
60°	991.4	1016.8	1060.4	1107.6	1136.7
62.5°	893.4	915.2	962.4	1013.2	1035.0
65°	806.2	824.4	864.3	907.9	929.7
67.5°	715.4	737.2	773.5	813.5	838.9
70°	624.6	650.1	679.1	715.4	744.5
72.5°	537.5	559.3	584.7	621.0	646.4
75°	450.3	472.1	493.9	526.6	552.0
77.5°	374.1	384.9	406.7	435.8	461.2
80°	290.5	305.1	323.2	352.3	370.4
82.5°	217.9	232.4	246.9	268.7	286.9
85°	156.2	167.1	181.6	199.7	210.6
87.5°	105.3	116.2	127.1	141.6	152.5
90°	72.6	83.5	90.8	101.7	108.9
92.5°	61.7	69.0	76.3	83.5	90.8
95°	54.5	61.7	69.0	76.3	83.5
97.5°	50.8	54.5	61.7	69.0	72.6
100°	47.2	50.8	54.5	61.7	65.4
102.5°	43.6	43.6	50.8	54.5	58.1
105°	39.9	39.9	43.6	47.2	50.8
107.5°	36.3	36.3	39.9	39.9	47.2
110°	32.7	29.1	32.7	32.7	39.9



TEST NUMBER: P384206

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.1	25.4	29.1	29.1	32.7
115°	25.4	21.8	21.8	25.4	29.1
117.5°	21.8	18.2	18.2	18.2	25.4
120°	21.8	18.2	14.5	14.5	21.8
122.5°	18.2	14.5	10.9	14.5	18.2
125°	14.5	10.9	7.3	10.9	14.5
127.5°	10.9	10.9	3.6	7.3	10.9
130°	10.9	7.3	3.6	7.3	7.3
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)