

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: P384202

Luminaire Tested: **24ID-70-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384202
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-70-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

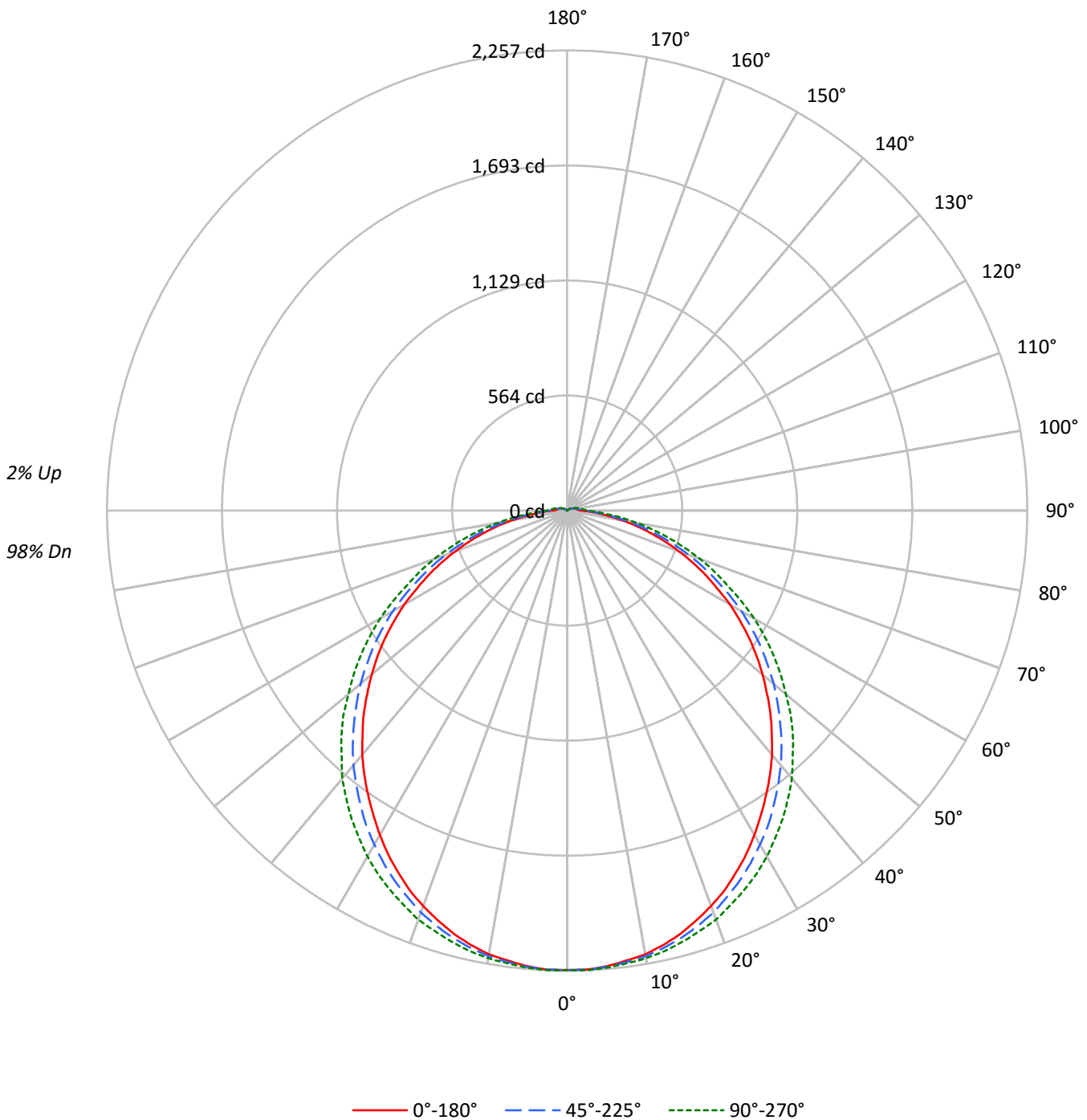
Lumens per Lamp: N/A
Luminaire Lumens: 6673.6 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P384202
CATALOG NUMBER: 24ID-70-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°	3032	3032	3032
5°	3024	3023	3028
10°	3007	3009	3024
15°	2976	2986	3016
20°	2933	2956	3011
25°	2880	2913	2991
30°	2820	2865	2972
35°	2755	2814	2943
40°	2698	2762	2911
45°	2630	2694	2862
50°	2557	2631	2793
55°	2482	2553	2734
60°	2399	2469	2658
65°	2289	2342	2531
70°	2165	2220	2448
75°	2024	2053	2314
80°	1876	1866	2163
85°	1814	1736	2052



TEST NUMBER: P384202

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.2
10°-20°	611.7	9.2
20°-30°	923.6	13.8
30°-40°	1106.6	16.6
40°-50°	1144.1	17.1
50°-60°	1036.1	15.5
60°-70°	801.7	12.0
70°-80°	492.5	7.4
80°-90°	195.7	2.9
90°-100°	71.4	1.1
100°-110°	43.9	0.7
110°-120°	22.6	0.3
120°-130°	9.6	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°	1748.7	26.2
0°-40°	2855.4	42.8
0°-60°	5035.6	75.5
0°-90°	6525.5	97.8
90°-120°	137.8	2.1
90°-150°	148.1	2.2
90°-180°	148.0	2.2
0°-180°	6673.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2253	2253	2253	2253	2253	
5°	2243	2243	2246	2246	2250	213
15°	2148	2152	2169	2182	2189	606
25°	1959	1972	2003	2037	2054	903
35°	1702	1722	1766	1814	1844	1065
45°	1411	1428	1478	1539	1566	1087
55°	1089	1113	1157	1208	1235	973
65°	751	768	805	846	866	743
75°	420	440	460	491	514	447
85°	146	156	169	186	196	145
90°	68	78	85	95	102	40
95°	51	58	64	71	78	41
105°	37	37	41	44	47	39
115°	24	20	20	24	27	24
125°	14	10	7	10	14	13
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: P384202

CATALOG NUMBER: 24ID-70-L830-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2253.3	2253.3	2253.3	2253.3	2253.3
2.5°	2253.3	2249.9	2253.3	2253.3	2256.7
5°	2243.2	2243.2	2246.5	2246.5	2249.9
7.5°	2226.2	2226.2	2233.0	2236.4	2239.8
10°	2209.3	2209.3	2219.5	2222.9	2229.6
12.5°	2182.3	2185.6	2195.8	2205.9	2212.7
15°	2148.4	2151.8	2168.7	2182.3	2189.0
17.5°	2107.8	2114.6	2134.9	2155.2	2162.0
20°	2063.8	2074.0	2097.7	2121.4	2134.9
22.5°	2016.5	2023.2	2050.3	2080.8	2094.3
25°	1959.0	1972.5	2002.9	2036.8	2053.7
27.5°	1901.4	1915.0	1948.8	1989.4	2009.7
30°	1837.2	1850.7	1891.3	1935.3	1959.0
32.5°	1769.5	1786.4	1833.8	1877.8	1901.4
35°	1701.8	1722.1	1766.1	1813.5	1843.9
37.5°	1634.2	1651.1	1698.4	1749.2	1779.6
40°	1563.1	1580.0	1630.8	1681.5	1715.4
42.5°	1485.3	1505.6	1556.3	1610.5	1637.5
45°	1410.9	1427.8	1478.5	1539.4	1566.5
47.5°	1329.7	1353.3	1400.7	1458.2	1488.7
50°	1251.8	1272.1	1322.9	1377.0	1400.7
52.5°	1170.6	1190.9	1238.3	1292.4	1319.5
55°	1089.4	1113.1	1157.1	1207.9	1234.9
57.5°	1004.9	1028.5	1072.5	1116.5	1147.0
60°	923.7	947.3	987.9	1031.9	1059.0
62.5°	832.3	852.6	896.6	944.0	964.3
65°	751.1	768.0	805.2	845.8	866.1
67.5°	666.5	686.8	720.7	757.9	781.6
70°	581.9	605.6	632.7	666.5	693.6
72.5°	500.7	521.0	544.7	578.6	602.2
75°	419.5	439.8	460.1	490.6	514.3
77.5°	348.5	358.6	378.9	406.0	429.7
80°	270.7	284.2	301.1	328.2	345.1
82.5°	203.0	216.5	230.1	250.4	267.3
85°	145.5	155.6	169.2	186.1	196.2
87.5°	98.1	108.3	118.4	132.0	142.1
90°	67.7	77.8	84.6	94.7	101.5
92.5°	57.5	64.3	71.1	77.8	84.6
95°	50.8	57.5	64.3	71.1	77.8
97.5°	47.4	50.8	57.5	64.3	67.7
100°	44.0	47.4	50.8	57.5	60.9
102.5°	40.6	40.6	47.4	50.8	54.1
105°	37.2	37.2	40.6	44.0	47.4
107.5°	33.8	33.8	37.2	37.2	44.0
110°	30.5	27.1	30.5	30.5	37.2



TEST NUMBER: P384202

CATALOG NUMBER: 24ID-70-L830-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.1	23.7	27.1	27.1	30.5
115°	23.7	20.3	20.3	23.7	27.1
117.5°	20.3	16.9	16.9	16.9	23.7
120°	20.3	16.9	13.5	13.5	20.3
122.5°	16.9	13.5	10.2	13.5	16.9
125°	13.5	10.2	6.8	10.2	13.5
127.5°	10.2	10.2	3.4	6.8	10.2
130°	10.2	6.8	3.4	6.8	6.8
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)