

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: P384204

Luminaire Tested: **24ID-70-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384204
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-L840-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

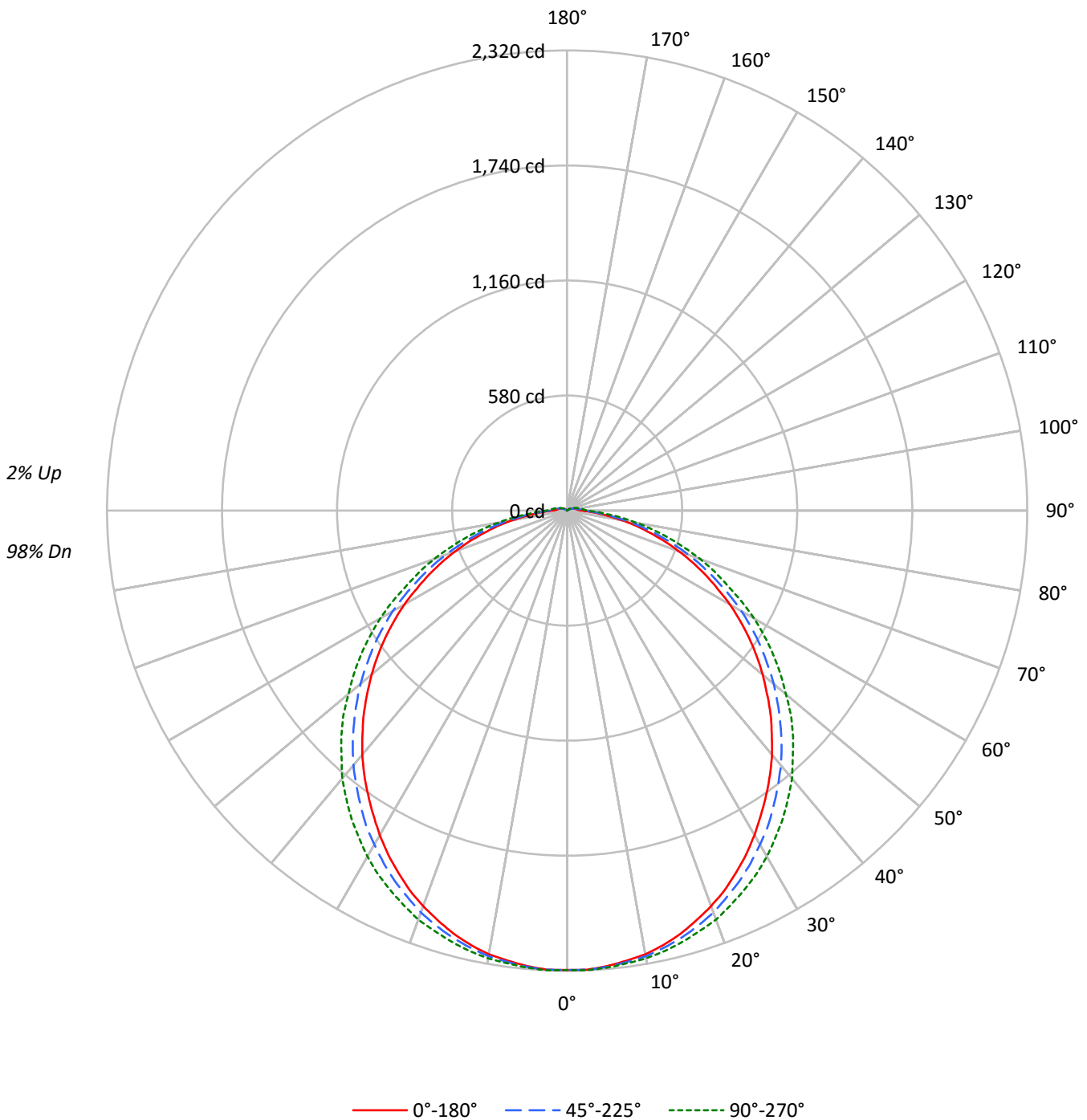
Lumens per Lamp: N/A
Luminaire Lumens: 6860.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 65.7
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



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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	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°	3117	3117	3117
5°	3109	3107	3113
10°	3092	3093	3109
15°	3060	3069	3100
20°	3015	3039	3096
25°	2961	2995	3075
30°	2899	2946	3055
35°	2832	2893	3025
40°	2774	2839	2993
45°	2704	2770	2942
50°	2629	2704	2872
55°	2551	2625	2811
60°	2466	2539	2733
65°	2353	2407	2602
70°	2226	2282	2517
75°	2080	2111	2379
80°	1929	1918	2224
85°	1865	1784	2110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	3.2
10°-20°	628.9	9.2
20°-30°	949.5	13.8
30°-40°	1137.7	16.6
40°-50°	1176.2	17.1
50°-60°	1065.1	15.5
60°-70°	824.2	12.0
70°-80°	506.3	7.4
80°-90°	201.2	2.9
90°-100°	73.4	1.1
100°-110°	45.1	0.7
110°-120°	23.2	0.3
120°-130°	9.9	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°	1797.8	26.2
0°-40°	2935.4	42.8
0°-60°	5176.8	75.5
0°-90°	6708.5	97.8
90°-120°	141.7	2.1
90°-150°	152.2	2.2
90°-180°	152.0	2.2
0°-180°	6860.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2306	2306	2310	2310	2313	219
15°	2209	2212	2230	2243	2250	623
25°	2014	2028	2059	2094	2111	928
35°	1750	1770	1816	1864	1896	1095
45°	1450	1468	1520	1583	1610	1118
55°	1120	1144	1190	1242	1270	1001
65°	772	790	828	870	890	764
75°	431	452	473	504	529	460
85°	150	160	174	191	202	149
90°	70	80	87	97	104	41
95°	52	59	66	73	80	42
105°	38	38	42	45	49	41
115°	24	21	21	24	28	25
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2316.5	2316.5	2316.5	2316.5	2316.5
2.5°	2316.5	2313.0	2316.5	2316.5	2320.0
5°	2306.1	2306.1	2309.5	2309.5	2313.0
7.5°	2288.7	2288.7	2295.6	2299.1	2302.6
10°	2271.3	2271.3	2281.7	2285.2	2292.1
12.5°	2243.4	2246.9	2257.4	2267.8	2274.7
15°	2208.7	2212.1	2229.5	2243.4	2250.4
17.5°	2166.9	2173.9	2194.8	2215.6	2222.6
20°	2121.7	2132.1	2156.5	2180.8	2194.8
22.5°	2073.0	2080.0	2107.8	2139.1	2153.0
25°	2013.9	2027.8	2059.1	2093.9	2111.3
27.5°	1954.8	1968.7	2003.4	2045.2	2066.1
30°	1888.7	1902.6	1944.3	1989.5	2013.9
32.5°	1819.1	1836.5	1885.2	1930.4	1954.8
35°	1749.5	1770.4	1815.6	1864.3	1895.6
37.5°	1680.0	1697.4	1746.1	1798.2	1829.5
40°	1606.9	1624.3	1676.5	1728.7	1763.5
42.5°	1526.9	1547.8	1600.0	1655.6	1683.5
45°	1450.4	1467.8	1520.0	1582.6	1610.4
47.5°	1366.9	1391.3	1440.0	1499.1	1530.4
50°	1286.9	1307.8	1360.0	1415.6	1440.0
52.5°	1203.5	1224.3	1273.0	1328.7	1356.5
55°	1120.0	1144.3	1189.5	1241.7	1269.5
57.5°	1033.0	1057.4	1102.6	1147.8	1179.1
60°	949.6	973.9	1015.6	1060.9	1088.7
62.5°	855.6	876.5	921.7	970.4	991.3
65°	772.2	789.6	827.8	869.6	890.4
67.5°	685.2	706.1	740.9	779.1	803.5
70°	598.3	622.6	650.4	685.2	713.0
72.5°	514.8	535.6	560.0	594.8	619.1
75°	431.3	452.2	473.0	504.3	528.7
77.5°	358.3	368.7	389.6	417.4	441.7
80°	278.3	292.2	309.6	337.4	354.8
82.5°	208.7	222.6	236.5	257.4	274.8
85°	149.6	160.0	173.9	191.3	201.7
87.5°	100.9	111.3	121.7	135.7	146.1
90°	69.6	80.0	87.0	97.4	104.3
92.5°	59.1	66.1	73.0	80.0	87.0
95°	52.2	59.1	66.1	73.0	80.0
97.5°	48.7	52.2	59.1	66.1	69.6
100°	45.2	48.7	52.2	59.1	62.6
102.5°	41.7	41.7	48.7	52.2	55.7
105°	38.3	38.3	41.7	45.2	48.7
107.5°	34.8	34.8	38.3	38.3	45.2
110°	31.3	27.8	31.3	31.3	38.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.8	24.3	27.8	27.8	31.3
115°	24.3	20.9	20.9	24.3	27.8
117.5°	20.9	17.4	17.4	17.4	24.3
120°	20.9	17.4	13.9	13.9	20.9
122.5°	17.4	13.9	10.4	13.9	17.4
125°	13.9	10.4	7.0	10.4	13.9
127.5°	10.4	10.4	3.5	7.0	10.4
130°	10.4	7.0	3.5	7.0	7.0
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)