

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: P384373

Luminaire Tested: **24ID-70-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384373
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-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

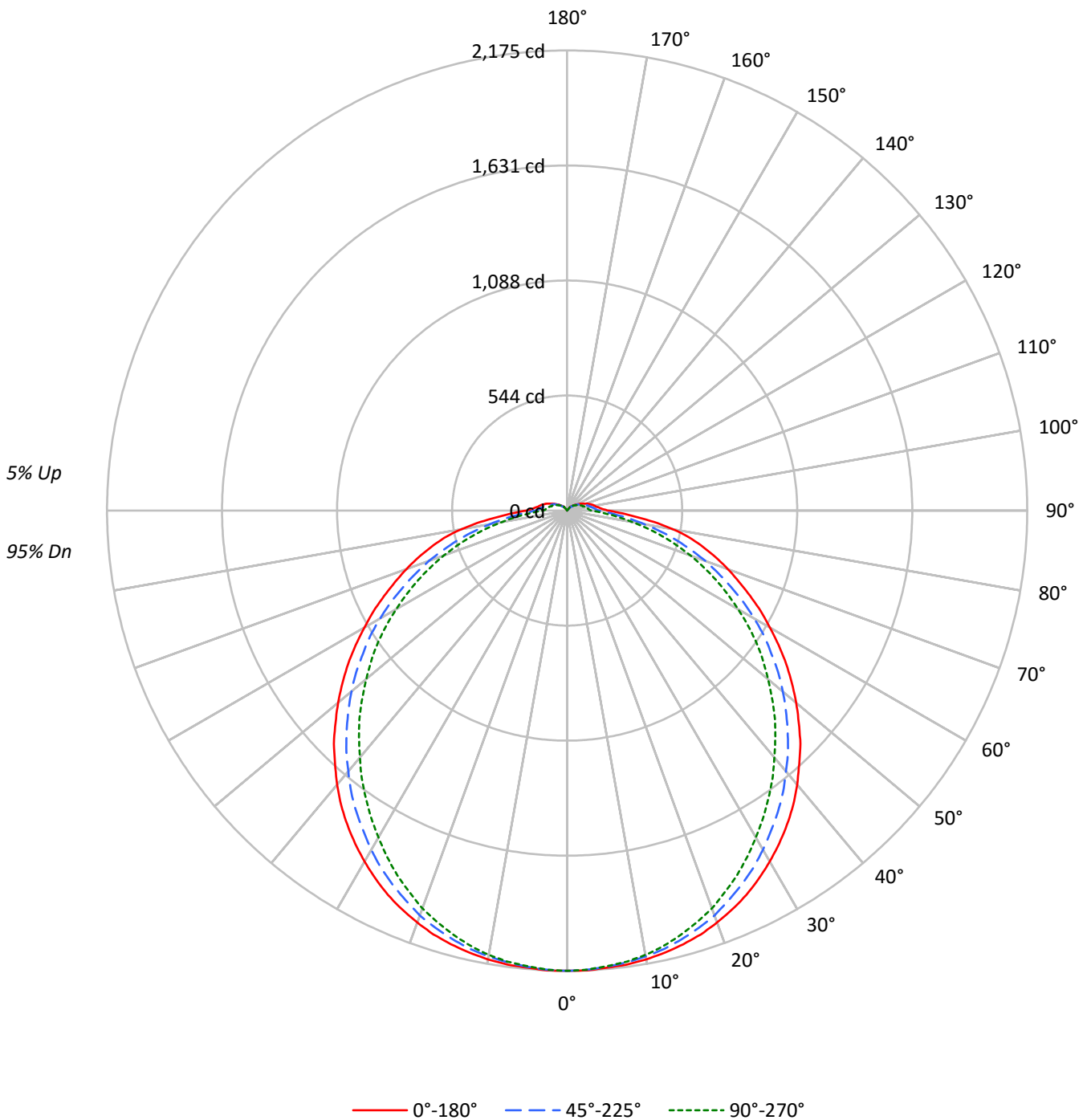
Lumens per Lamp: N/A
Luminaire Lumens: 7055.3 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.7
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	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°	2927	2927	2927
5°	2918	2901	2898
10°	2921	2878	2871
15°	2923	2853	2828
20°	2922	2825	2780
25°	2919	2782	2717
30°	2906	2737	2644
35°	2892	2687	2575
40°	2870	2631	2501
45°	2849	2577	2439
50°	2819	2521	2359
55°	2798	2454	2291
60°	2779	2385	2194
65°	2788	2287	2096
70°	2853	2197	1983
75°	2995	2074	1835
80°	3191	1911	1648
85°	3351	1805	1520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	2.9
10°-20°	592.0	8.4
20°-30°	899.2	12.7
30°-40°	1086.1	15.4
40°-50°	1136.8	16.1
50°-60°	1054.8	15.0
60°-70°	854.4	12.1
70°-80°	576.6	8.2
80°-90°	278.6	3.9
90°-100°	140.1	2.0
100°-110°	101.8	1.4
110°-120°	68.1	1.0
120°-130°	39.5	0.6
130°-140°	19.9	0.3
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1697.1	24.1
0°-40°	2783.2	39.4
0°-60°	4974.8	70.5
0°-90°	6684.3	94.7
90°-120°	310.1	4.4
90°-150°	370.9	5.3
90°-180°	371.0	5.3
0°-180°	7055.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2175	2175	2175	2175	2175	
5°	2168	2165	2165	2161	2161	207
15°	2122	2111	2097	2083	2076	599
25°	2004	1987	1951	1915	1901	924
35°	1812	1787	1737	1684	1659	1134
45°	1559	1531	1474	1413	1388	1201
55°	1264	1235	1178	1122	1093	1130
65°	954	918	854	808	776	947
75°	666	598	530	491	463	701
85°	320	278	235	214	192	303
90°	192	174	150	135	114	110
95°	153	142	128	114	100	120
105°	114	107	96	85	78	122
115°	78	71	71	60	60	78
125°	50	43	46	39	43	44
135°	28	25	25	25	28	22
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°	2175.3	2175.3	2175.3	2175.3	2175.3
2.5°	2175.3	2171.7	2171.7	2171.7	2171.7
5°	2168.2	2164.6	2164.6	2161.0	2161.0
7.5°	2164.6	2157.5	2153.9	2150.4	2150.4
10°	2153.9	2146.8	2139.7	2132.6	2132.6
12.5°	2139.7	2132.6	2121.9	2107.6	2107.6
15°	2121.9	2111.2	2097.0	2082.7	2075.6
17.5°	2100.5	2089.8	2068.5	2047.1	2040.0
20°	2072.0	2057.8	2036.4	2008.0	2000.8
22.5°	2040.0	2025.8	1993.7	1965.2	1951.0
25°	2004.4	1986.6	1951.0	1915.4	1901.1
27.5°	1961.7	1943.9	1904.7	1862.0	1844.2
30°	1915.4	1894.0	1851.3	1805.0	1783.7
32.5°	1865.5	1840.6	1794.3	1744.5	1723.1
35°	1812.1	1787.2	1737.4	1684.0	1659.1
37.5°	1755.2	1730.3	1676.9	1619.9	1595.0
40°	1691.1	1666.2	1609.2	1552.2	1523.8
42.5°	1623.5	1602.1	1545.1	1484.6	1456.1
45°	1559.4	1530.9	1473.9	1413.4	1388.5
47.5°	1484.6	1463.2	1402.7	1342.2	1313.7
50°	1413.4	1388.5	1331.5	1271.0	1238.9
52.5°	1338.6	1317.3	1256.8	1196.2	1167.7
55°	1263.9	1235.4	1178.4	1121.5	1093.0
57.5°	1185.5	1160.6	1103.7	1050.3	1014.7
60°	1107.2	1082.3	1021.8	971.9	932.8
62.5°	1032.5	1004.0	939.9	886.5	854.4
65°	954.1	918.5	854.4	808.2	776.1
67.5°	879.4	836.6	772.6	729.8	697.8
70°	808.2	758.3	694.2	651.5	619.5
72.5°	737.0	676.4	608.8	569.6	541.2
75°	665.8	598.1	530.5	491.3	462.8
77.5°	594.6	516.2	448.6	416.5	388.1
80°	509.1	434.3	370.3	341.8	313.3
82.5°	413.0	352.5	299.1	270.6	249.2
85°	320.4	277.7	235.0	213.6	192.3
87.5°	249.2	217.2	185.1	167.3	149.5
90°	192.3	174.4	149.5	135.3	113.9
92.5°	167.3	153.1	135.3	121.0	103.2
95°	153.1	142.4	128.2	113.9	99.7
97.5°	138.8	131.7	117.5	106.8	92.6
100°	131.7	121.0	110.4	99.7	89.0
102.5°	124.6	113.9	103.2	92.6	85.4
105°	113.9	106.8	96.1	85.4	78.3
107.5°	106.8	96.1	89.0	78.3	74.8
110°	96.1	89.0	81.9	74.8	71.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.4	81.9	74.8	67.6	64.1
115°	78.3	71.2	71.2	60.5	60.5
117.5°	71.2	64.1	64.1	57.0	57.0
120°	60.5	57.0	57.0	49.8	49.8
122.5°	53.4	49.8	49.8	46.3	46.3
125°	49.8	42.7	46.3	39.2	42.7
127.5°	42.7	39.2	39.2	35.6	39.2
130°	35.6	32.0	32.0	32.0	35.6
132.5°	32.0	28.5	28.5	28.5	32.0
135°	28.5	24.9	24.9	24.9	28.5
137.5°	24.9	21.4	17.8	21.4	24.9
140°	21.4	17.8	14.2	17.8	21.4
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)