

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: P384377

Luminaire Tested: **24ID-75-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384377
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-75-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

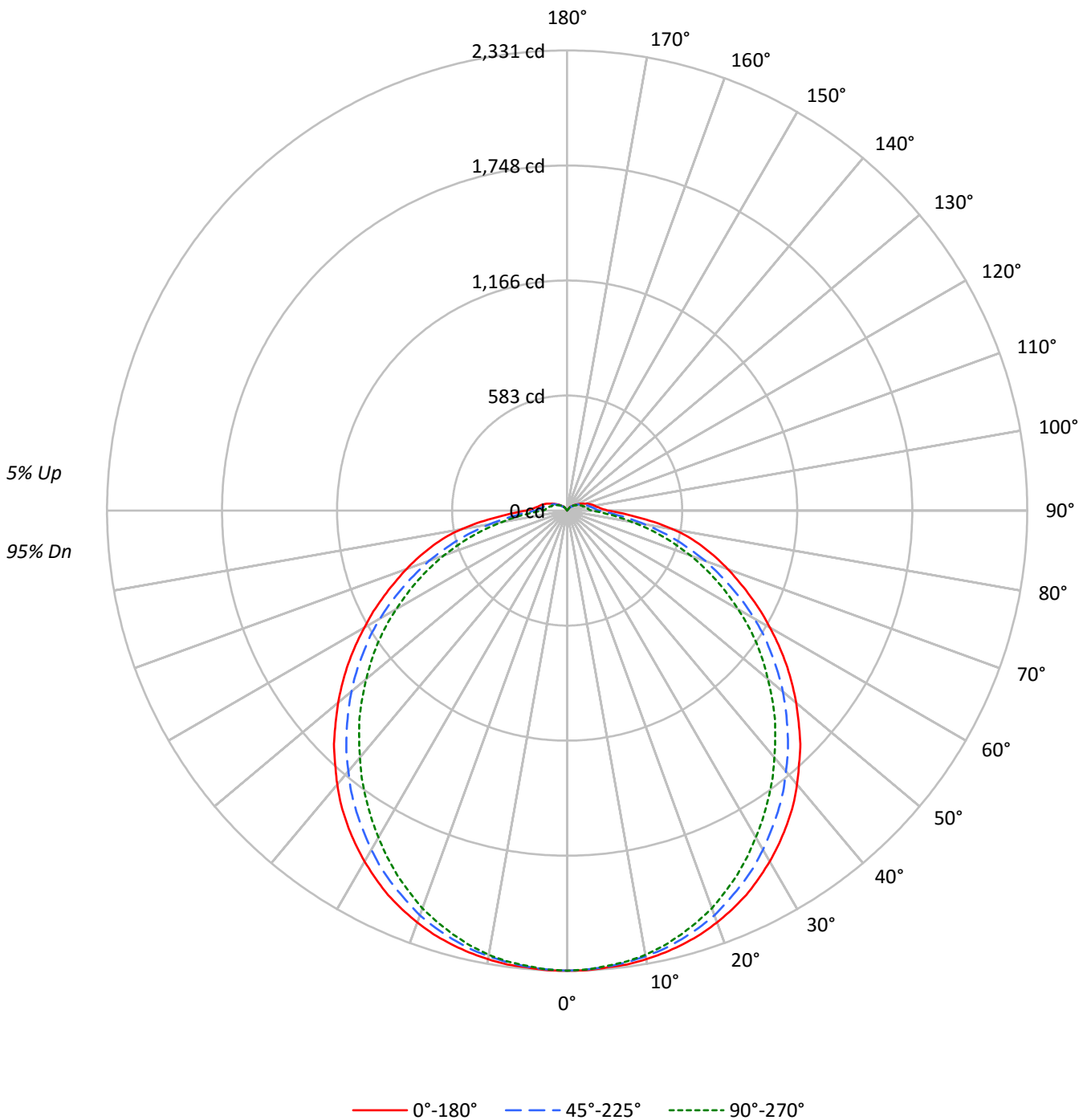
Lumens per Lamp: N/A
Luminaire Lumens: 7559.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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



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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°	3136	3136	3136
5°	3126	3109	3105
10°	3130	3084	3077
15°	3132	3057	3030
20°	3131	3027	2979
25°	3128	2981	2911
30°	3114	2932	2833
35°	3099	2880	2759
40°	3075	2819	2680
45°	3052	2761	2613
50°	3020	2702	2528
55°	2998	2630	2455
60°	2978	2555	2350
65°	2988	2450	2246
70°	3057	2355	2125
75°	3210	2222	1966
80°	3419	2047	1766
85°	3590	1934	1629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	2.9
10°-20°	634.3	8.4
20°-30°	963.5	12.7
30°-40°	1163.8	15.4
40°-50°	1218.1	16.1
50°-60°	1130.3	15.0
60°-70°	915.5	12.1
70°-80°	617.8	8.2
80°-90°	298.5	3.9
90°-100°	150.1	2.0
100°-110°	109.1	1.4
110°-120°	73.0	1.0
120°-130°	42.3	0.6
130°-140°	21.3	0.3
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1818.4	24.1
0°-40°	2982.2	39.4
0°-60°	5330.5	70.5
0°-90°	7162.3	94.7
90°-120°	332.3	4.4
90°-150°	397.5	5.3
90°-180°	397.0	5.3
0°-180°	7559.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2323	2319	2319	2316	2316	221
15°	2274	2262	2247	2232	2224	642
25°	2148	2129	2090	2052	2037	990
35°	1942	1915	1862	1804	1778	1215
45°	1671	1640	1579	1514	1488	1287
55°	1354	1324	1263	1202	1171	1210
65°	1022	984	916	866	832	1015
75°	713	641	568	526	496	751
85°	343	298	252	229	206	324
90°	206	187	160	145	122	118
95°	164	153	137	122	107	129
105°	122	114	103	92	84	130
115°	84	76	76	65	65	84
125°	53	46	50	42	46	47
135°	30	27	27	27	30	24
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°	2330.8	2330.8	2330.8	2330.8	2330.8
2.5°	2330.8	2327.0	2327.0	2327.0	2327.0
5°	2323.2	2319.4	2319.4	2315.6	2315.6
7.5°	2319.4	2311.8	2307.9	2304.1	2304.1
10°	2307.9	2300.3	2292.7	2285.1	2285.1
12.5°	2292.7	2285.1	2273.6	2258.3	2258.3
15°	2273.6	2262.2	2246.9	2231.6	2224.0
17.5°	2250.7	2239.3	2216.4	2193.5	2185.9
20°	2220.2	2204.9	2182.1	2151.5	2143.9
22.5°	2185.9	2170.6	2136.3	2105.8	2090.5
25°	2147.7	2128.6	2090.5	2052.3	2037.1
27.5°	2101.9	2082.9	2040.9	1995.1	1976.1
30°	2052.3	2029.5	1983.7	1934.1	1911.2
32.5°	1998.9	1972.2	1922.6	1869.2	1846.4
35°	1941.7	1915.0	1861.6	1804.4	1777.7
37.5°	1880.7	1854.0	1796.8	1735.7	1709.0
40°	1812.0	1785.3	1724.3	1663.2	1632.7
42.5°	1739.5	1716.6	1655.6	1590.8	1560.2
45°	1670.9	1640.4	1579.3	1514.5	1487.8
47.5°	1590.8	1567.9	1503.0	1438.2	1407.7
50°	1514.5	1487.8	1426.7	1361.9	1327.5
52.5°	1434.4	1411.5	1346.6	1281.8	1251.2
55°	1354.2	1323.7	1262.7	1201.7	1171.1
57.5°	1270.3	1243.6	1182.6	1125.4	1087.2
60°	1186.4	1159.7	1094.8	1041.4	999.5
62.5°	1106.3	1075.8	1007.1	949.9	915.5
65°	1022.4	984.2	915.5	866.0	831.6
67.5°	942.2	896.5	827.8	782.0	747.7
70°	866.0	812.5	743.9	698.1	663.8
72.5°	789.7	724.8	652.3	610.4	579.8
75°	713.4	640.9	568.4	526.4	495.9
77.5°	637.1	553.1	480.7	446.3	415.8
80°	545.5	465.4	396.7	366.2	335.7
82.5°	442.5	377.7	320.4	289.9	267.0
85°	343.3	297.6	251.8	228.9	206.0
87.5°	267.0	232.7	198.4	179.3	160.2
90°	206.0	186.9	160.2	145.0	122.1
92.5°	179.3	164.0	145.0	129.7	110.6
95°	164.0	152.6	137.3	122.1	106.8
97.5°	148.8	141.1	125.9	114.4	99.2
100°	141.1	129.7	118.3	106.8	95.4
102.5°	133.5	122.1	110.6	99.2	91.6
105°	122.1	114.4	103.0	91.6	83.9
107.5°	114.4	103.0	95.4	83.9	80.1
110°	103.0	95.4	87.7	80.1	76.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.6	87.7	80.1	72.5	68.7
115°	83.9	76.3	76.3	64.9	64.9
117.5°	76.3	68.7	68.7	61.0	61.0
120°	64.9	61.0	61.0	53.4	53.4
122.5°	57.2	53.4	53.4	49.6	49.6
125°	53.4	45.8	49.6	42.0	45.8
127.5°	45.8	42.0	42.0	38.1	42.0
130°	38.1	34.3	34.3	34.3	38.1
132.5°	34.3	30.5	30.5	30.5	34.3
135°	30.5	26.7	26.7	26.7	30.5
137.5°	26.7	22.9	19.1	22.9	26.7
140°	22.9	19.1	15.3	19.1	22.9
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)