

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: P384375

Luminaire Tested: **24ID-75-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384375
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-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

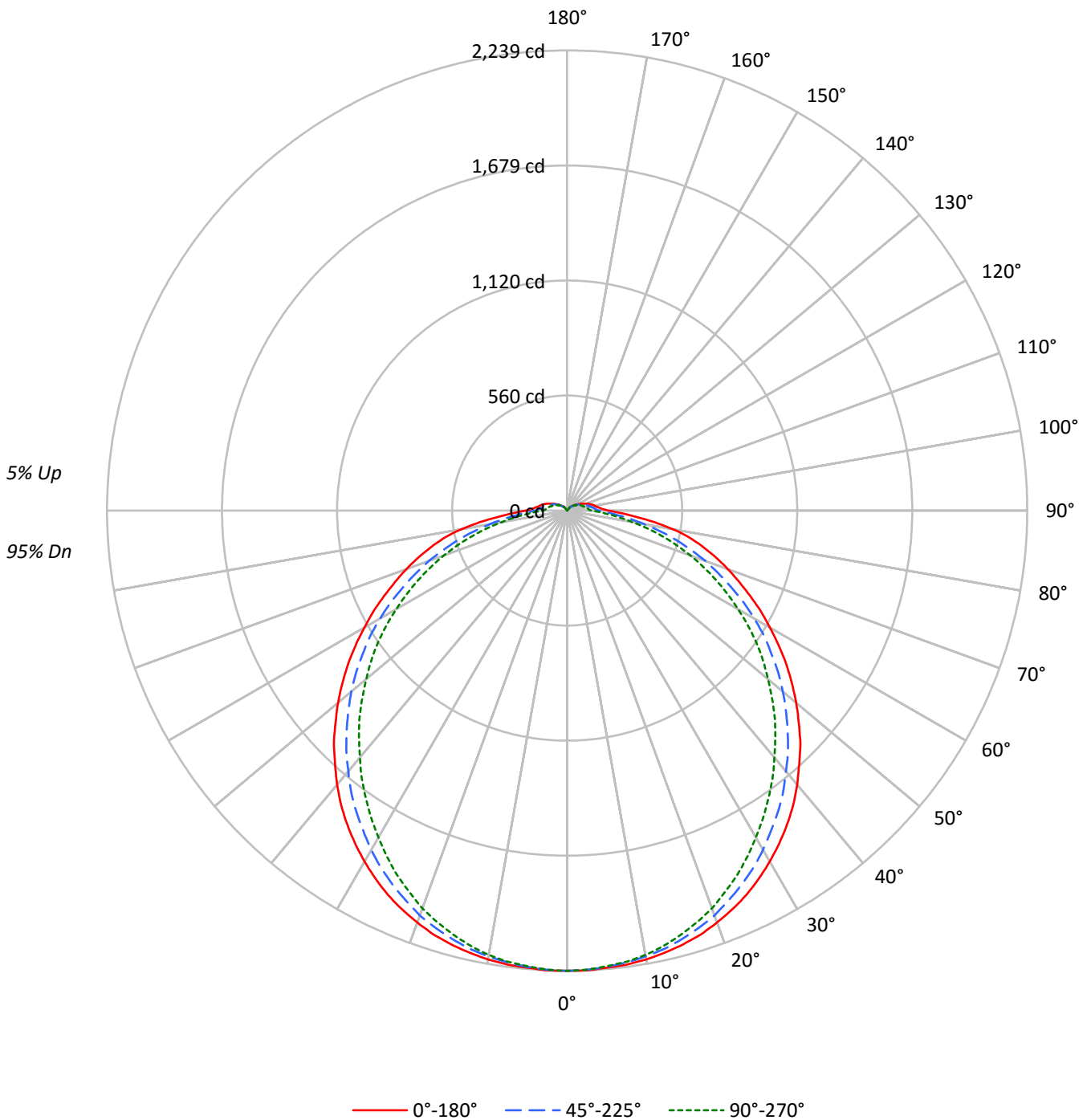
Lumens per Lamp: N/A
Luminaire Lumens: 7263.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70.8
Input Voltage (V): NR
Input Current (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



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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°	3013	3013	3013
5°	3004	2987	2983
10°	3007	2963	2956
15°	3009	2937	2911
20°	3009	2908	2862
25°	3005	2864	2797
30°	2991	2817	2722
35°	2977	2767	2651
40°	2954	2709	2575
45°	2932	2653	2511
50°	2902	2596	2429
55°	2881	2527	2359
60°	2861	2455	2258
65°	2871	2354	2158
70°	2937	2262	2041
75°	3084	2135	1889
80°	3285	1967	1697
85°	3450	1858	1565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	2.9
10°-20°	609.5	8.4
20°-30°	925.7	12.7
30°-40°	1118.1	15.4
40°-50°	1170.3	16.1
50°-60°	1085.9	15.0
60°-70°	879.6	12.1
70°-80°	593.6	8.2
80°-90°	286.8	3.9
90°-100°	144.3	2.0
100°-110°	104.9	1.4
110°-120°	70.1	1.0
120°-130°	40.6	0.6
130°-140°	20.5	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°	1747.1	24.1
0°-40°	2865.2	39.4
0°-60°	5121.4	70.5
0°-90°	6881.3	94.7
90°-120°	319.2	4.4
90°-150°	381.9	5.3
90°-180°	382.0	5.3
0°-180°	7263.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2232	2228	2228	2225	2225	213
15°	2184	2173	2159	2144	2137	617
25°	2064	2045	2008	1972	1957	951
35°	1866	1840	1789	1734	1708	1167
45°	1605	1576	1517	1455	1429	1237
55°	1301	1272	1213	1154	1125	1163
65°	982	946	880	832	799	975
75°	685	616	546	506	476	722
85°	330	286	242	220	198	312
90°	198	180	154	139	117	113
95°	158	147	132	117	103	124
105°	117	110	99	88	81	125
115°	81	73	73	62	62	80
125°	51	44	48	40	44	45
135°	29	26	26	26	29	23
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°	2239.4	2239.4	2239.4	2239.4	2239.4
2.5°	2239.4	2235.7	2235.7	2235.7	2235.7
5°	2232.1	2228.4	2228.4	2224.7	2224.7
7.5°	2228.4	2221.1	2217.4	2213.7	2213.7
10°	2217.4	2210.1	2202.7	2195.4	2195.4
12.5°	2202.7	2195.4	2184.4	2169.7	2169.7
15°	2184.4	2173.4	2158.7	2144.1	2136.8
17.5°	2162.4	2151.4	2129.4	2107.4	2100.1
20°	2133.1	2118.4	2096.4	2067.1	2059.8
22.5°	2100.1	2085.4	2052.5	2023.1	2008.5
25°	2063.5	2045.1	2008.5	1971.8	1957.2
27.5°	2019.5	2001.1	1960.8	1916.9	1898.5
30°	1971.8	1949.8	1905.9	1858.2	1836.2
32.5°	1920.5	1894.9	1847.2	1795.9	1773.9
35°	1865.5	1839.9	1788.6	1733.6	1707.9
37.5°	1806.9	1781.2	1726.3	1667.6	1642.0
40°	1740.9	1715.3	1656.6	1598.0	1568.7
42.5°	1671.3	1649.3	1590.7	1528.4	1499.0
45°	1605.3	1576.0	1517.4	1455.0	1429.4
47.5°	1528.4	1506.4	1444.1	1381.7	1352.4
50°	1455.0	1429.4	1370.8	1308.4	1275.5
52.5°	1378.1	1356.1	1293.8	1231.5	1202.2
55°	1301.1	1271.8	1213.2	1154.5	1125.2
57.5°	1220.5	1194.8	1136.2	1081.2	1044.6
60°	1139.8	1114.2	1051.9	1000.6	960.3
62.5°	1062.9	1033.6	967.6	912.6	879.6
65°	982.2	945.6	879.6	832.0	799.0
67.5°	905.3	861.3	795.3	751.3	718.4
70°	832.0	780.7	714.7	670.7	637.7
72.5°	758.7	696.4	626.7	586.4	557.1
75°	685.4	615.7	546.1	505.8	476.5
77.5°	612.1	531.4	461.8	428.8	399.5
80°	524.1	447.1	381.2	351.9	322.5
82.5°	425.2	362.8	307.9	278.5	256.6
85°	329.9	285.9	241.9	219.9	197.9
87.5°	256.6	223.6	190.6	172.3	153.9
90°	197.9	179.6	153.9	139.3	117.3
92.5°	172.3	157.6	139.3	124.6	106.3
95°	157.6	146.6	131.9	117.3	102.6
97.5°	142.9	135.6	120.9	110.0	95.3
100°	135.6	124.6	113.6	102.6	91.6
102.5°	128.3	117.3	106.3	95.3	88.0
105°	117.3	110.0	99.0	88.0	80.6
107.5°	110.0	99.0	91.6	80.6	77.0
110°	99.0	91.6	84.3	77.0	73.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	88.0	84.3	77.0	69.6	66.0
115°	80.6	73.3	73.3	62.3	62.3
117.5°	73.3	66.0	66.0	58.6	58.6
120°	62.3	58.6	58.6	51.3	51.3
122.5°	55.0	51.3	51.3	47.6	47.6
125°	51.3	44.0	47.6	40.3	44.0
127.5°	44.0	40.3	40.3	36.7	40.3
130°	36.7	33.0	33.0	33.0	36.7
132.5°	33.0	29.3	29.3	29.3	33.0
135°	29.3	25.7	25.7	25.7	29.3
137.5°	25.7	22.0	18.3	22.0	25.7
140°	22.0	18.3	14.7	18.3	22.0
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)