

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: P384203

Luminaire Tested: **24ID-70-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384203  
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-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

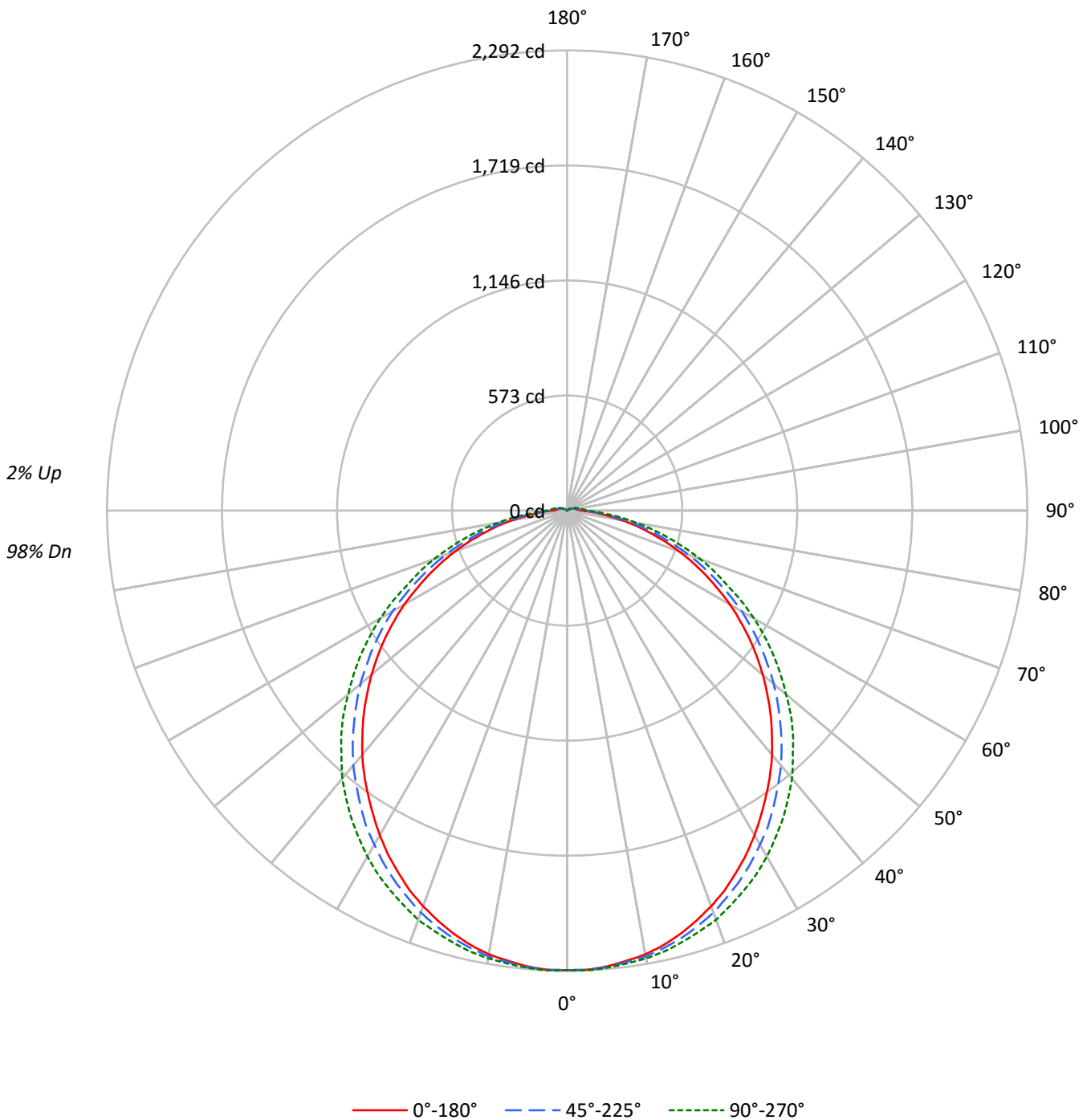
Lumens per Lamp: N/A  
Luminaire Lumens: 6779.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

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



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CATALOG NUMBER: 24ID-70-L835-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°	3080	3080	3080
5°	3072	3071	3076
10°	3055	3057	3072
15°	3023	3033	3063
20°	2979	3003	3059
25°	2926	2960	3038
30°	2865	2911	3019
35°	2799	2858	2990
40°	2741	2806	2957
45°	2671	2737	2907
50°	2597	2672	2838
55°	2521	2594	2778
60°	2437	2509	2700
65°	2325	2379	2572
70°	2200	2255	2487
75°	2056	2086	2350
80°	1906	1895	2198
85°	1843	1763	2084



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	3.2
10°-20°	621.5	9.2
20°-30°	938.2	13.8
30°-40°	1124.2	16.6
40°-50°	1162.3	17.1
50°-60°	1052.5	15.5
60°-70°	814.5	12.0
70°-80°	500.3	7.4
80°-90°	198.8	2.9
90°-100°	72.5	1.1
100°-110°	44.6	0.7
110°-120°	22.9	0.3
120°-130°	9.8	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°	1776.5	26.2
0°-40°	2900.7	42.8
0°-60°	5115.5	75.5
0°-90°	6629.1	97.8
90°-120°	140.0	2.1
90°-150°	150.4	2.2
90°-180°	150.0	2.2
0°-180°	6779.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2289	2289	2289	2289	2289	
5°	2279	2279	2282	2282	2286	216
15°	2182	2186	2203	2217	2224	615
25°	1990	2004	2035	2069	2086	917
35°	1729	1750	1794	1842	1873	1082
45°	1433	1450	1502	1564	1591	1105
55°	1107	1131	1176	1227	1254	989
65°	763	780	818	859	880	755
75°	426	447	467	498	522	454
85°	148	158	172	189	199	147
90°	69	79	86	96	103	40
95°	52	58	65	72	79	41
105°	38	38	41	45	48	40
115°	24	21	21	24	28	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: P384203

CATALOG NUMBER: 24ID-70-L835-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2289.1	2289.1	2289.1	2289.1	2289.1
2.5°	2289.1	2285.6	2289.1	2289.1	2292.5
5°	2278.8	2278.8	2282.2	2282.2	2285.6
7.5°	2261.6	2261.6	2268.4	2271.9	2275.3
10°	2244.4	2244.4	2254.7	2258.1	2265.0
12.5°	2216.9	2220.3	2230.6	2241.0	2247.8
15°	2182.5	2186.0	2203.1	2216.9	2223.8
17.5°	2141.3	2148.2	2168.8	2189.4	2196.3
20°	2096.6	2106.9	2131.0	2155.0	2168.8
22.5°	2048.5	2055.4	2082.8	2113.8	2127.5
25°	1990.0	2003.8	2034.7	2069.1	2086.3
27.5°	1931.6	1945.4	1979.7	2021.0	2041.6
30°	1866.3	1880.1	1921.3	1966.0	1990.0
32.5°	1797.6	1814.8	1862.9	1907.6	1931.6
35°	1728.8	1749.5	1794.1	1842.3	1873.2
37.5°	1660.1	1677.3	1725.4	1777.0	1807.9
40°	1587.9	1605.1	1656.7	1708.2	1742.6
42.5°	1508.9	1529.5	1581.0	1636.0	1663.5
45°	1433.2	1450.4	1502.0	1563.9	1591.4
47.5°	1350.8	1374.8	1422.9	1481.4	1512.3
50°	1271.7	1292.3	1343.9	1398.9	1422.9
52.5°	1189.2	1209.8	1258.0	1313.0	1340.4
55°	1106.7	1130.8	1175.5	1227.0	1254.5
57.5°	1020.8	1044.9	1089.5	1134.2	1165.2
60°	938.3	962.4	1003.6	1048.3	1075.8
62.5°	845.5	866.1	910.8	958.9	979.6
65°	763.0	780.2	818.0	859.3	879.9
67.5°	677.1	697.7	732.1	769.9	794.0
70°	591.2	615.2	642.7	677.1	704.6
72.5°	508.7	529.3	553.4	587.7	611.8
75°	426.2	446.8	467.4	498.4	522.4
77.5°	354.0	364.3	384.9	412.4	436.5
80°	275.0	288.7	305.9	333.4	350.6
82.5°	206.2	220.0	233.7	254.3	271.5
85°	147.8	158.1	171.9	189.0	199.3
87.5°	99.7	110.0	120.3	134.0	144.4
90°	68.7	79.1	85.9	96.2	103.1
92.5°	58.4	65.3	72.2	79.1	85.9
95°	51.6	58.4	65.3	72.2	79.1
97.5°	48.1	51.6	58.4	65.3	68.7
100°	44.7	48.1	51.6	58.4	61.9
102.5°	41.2	41.2	48.1	51.6	55.0
105°	37.8	37.8	41.2	44.7	48.1
107.5°	34.4	34.4	37.8	37.8	44.7
110°	30.9	27.5	30.9	30.9	37.8



TEST NUMBER: P384203

CATALOG NUMBER: 24ID-70-L835-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	27.5	24.1	27.5	27.5	30.9
115°	24.1	20.6	20.6	24.1	27.5
117.5°	20.6	17.2	17.2	17.2	24.1
120°	20.6	17.2	13.7	13.7	20.6
122.5°	17.2	13.7	10.3	13.7	17.2
125°	13.7	10.3	6.9	10.3	13.7
127.5°	10.3	10.3	3.4	6.9	10.3
130°	10.3	6.9	3.4	6.9	6.9
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

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