

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: P384207

Luminaire Tested: **24ID-75-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384207  
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-75-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

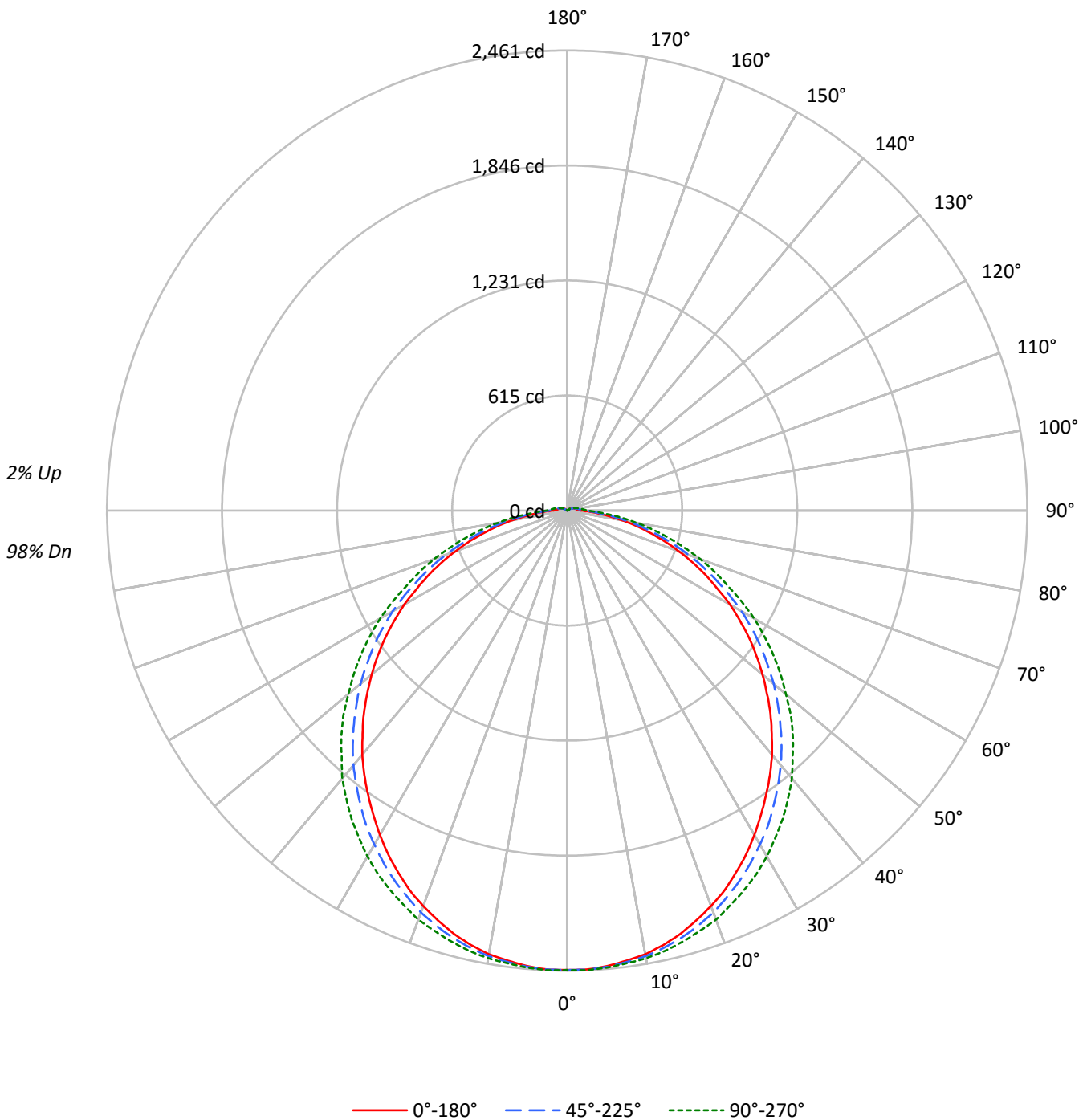
Lumens per Lamp: N/A  
Luminaire Lumens: 7276.9 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 70.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P384207  
CATALOG NUMBER: 24ID-75-L835-CFD1

### Luminous Intensity Polar Plot





TEST NUMBER: P384207

CATALOG NUMBER: 24ID-75-L835-CFD1

**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°	3306	3306	3306
5°	3297	3296	3301
10°	3279	3281	3297
15°	3245	3256	3288
20°	3198	3223	3283
25°	3141	3177	3261
30°	3075	3124	3241
35°	3004	3068	3209
40°	2942	3012	3174
45°	2868	2938	3120
50°	2788	2868	3046
55°	2706	2784	2981
60°	2616	2693	2898
65°	2496	2553	2760
70°	2361	2420	2670
75°	2207	2239	2523
80°	2045	2034	2359
85°	1978	1893	2238



TEST NUMBER: P384207

CATALOG NUMBER: 24ID-75-L835-CFD1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.7	3.2
10°-20°	667.0	9.2
20°-30°	1007.1	13.8
30°-40°	1206.7	16.6
40°-50°	1247.6	17.1
50°-60°	1129.8	15.5
60°-70°	874.2	12.0
70°-80°	537.0	7.4
80°-90°	213.4	2.9
90°-100°	77.8	1.1
100°-110°	47.8	0.7
110°-120°	24.6	0.3
120°-130°	10.5	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°	1906.8	26.2
0°-40°	3113.5	42.8
0°-60°	5490.8	75.5
0°-90°	7115.4	97.8
90°-120°	150.3	2.1
90°-150°	161.5	2.2
90°-180°	161.0	2.2
0°-180°	7276.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2457	2457	2457	2457	2457	
5°	2446	2446	2450	2450	2453	232
15°	2343	2346	2365	2380	2387	660
25°	2136	2151	2184	2221	2239	984
35°	1856	1878	1926	1977	2011	1162
45°	1538	1557	1612	1679	1708	1186
55°	1188	1214	1262	1317	1347	1061
65°	819	838	878	922	944	810
75°	458	480	502	535	561	488
85°	159	170	184	203	214	158
90°	74	85	92	103	111	43
95°	55	63	70	78	85	44
105°	41	41	44	48	52	43
115°	26	22	22	26	30	26
125°	15	11	7	11	15	14
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: P384207

CATALOG NUMBER: 24ID-75-L835-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2457.0	2457.0	2457.0	2457.0	2457.0
2.5°	2457.0	2453.3	2457.0	2457.0	2460.7
5°	2445.9	2445.9	2449.6	2449.6	2453.3
7.5°	2427.5	2427.5	2434.9	2438.6	2442.3
10°	2409.1	2409.1	2420.1	2423.8	2431.2
12.5°	2379.5	2383.2	2394.3	2405.4	2412.7
15°	2342.7	2346.3	2364.8	2379.5	2386.9
17.5°	2298.4	2305.8	2327.9	2350.0	2357.4
20°	2250.4	2261.5	2287.3	2313.1	2327.9
22.5°	2198.8	2206.1	2235.7	2268.9	2283.6
25°	2136.1	2150.8	2184.0	2220.9	2239.4
27.5°	2073.3	2088.1	2125.0	2169.3	2191.4
30°	2003.2	2018.0	2062.3	2110.2	2136.1
32.5°	1929.5	1947.9	1999.6	2047.5	2073.3
35°	1855.7	1877.8	1925.8	1977.4	2010.6
37.5°	1781.9	1800.3	1852.0	1907.3	1940.5
40°	1704.4	1722.9	1778.2	1833.5	1870.4
42.5°	1619.6	1641.7	1697.0	1756.1	1785.6
45°	1538.4	1556.8	1612.2	1678.6	1708.1
47.5°	1449.9	1475.7	1527.3	1590.1	1623.3
50°	1365.0	1387.1	1442.5	1501.5	1527.3
52.5°	1276.5	1298.6	1350.3	1409.3	1438.8
55°	1187.9	1213.8	1261.7	1317.0	1346.6
57.5°	1095.7	1121.5	1169.5	1217.4	1250.6
60°	1007.2	1033.0	1077.3	1125.2	1154.7
62.5°	907.5	929.7	977.6	1029.3	1051.4
65°	819.0	837.5	878.0	922.3	944.4
67.5°	726.8	748.9	785.8	826.4	852.2
70°	634.5	660.4	689.9	726.8	756.3
72.5°	546.0	568.1	594.0	630.9	656.7
75°	457.5	479.6	501.7	534.9	560.8
77.5°	380.0	391.1	413.2	442.7	468.5
80°	295.1	309.9	328.3	357.9	376.3
82.5°	221.4	236.1	250.9	273.0	291.4
85°	158.6	169.7	184.5	202.9	214.0
87.5°	107.0	118.1	129.1	143.9	154.9
90°	73.8	84.9	92.2	103.3	110.7
92.5°	62.7	70.1	77.5	84.9	92.2
95°	55.3	62.7	70.1	77.5	84.9
97.5°	51.6	55.3	62.7	70.1	73.8
100°	48.0	51.6	55.3	62.7	66.4
102.5°	44.3	44.3	51.6	55.3	59.0
105°	40.6	40.6	44.3	48.0	51.6
107.5°	36.9	36.9	40.6	40.6	48.0
110°	33.2	29.5	33.2	33.2	40.6



TEST NUMBER: P384207

CATALOG NUMBER: 24ID-75-L835-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	29.5	25.8	29.5	29.5	33.2
115°	25.8	22.1	22.1	25.8	29.5
117.5°	22.1	18.4	18.4	18.4	25.8
120°	22.1	18.4	14.8	14.8	22.1
122.5°	18.4	14.8	11.1	14.8	18.4
125°	14.8	11.1	7.4	11.1	14.8
127.5°	11.1	11.1	3.7	7.4	11.1
130°	11.1	7.4	3.7	7.4	7.4
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)