

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: P384711

Luminaire Tested: **24ID-75-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-75-L835-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

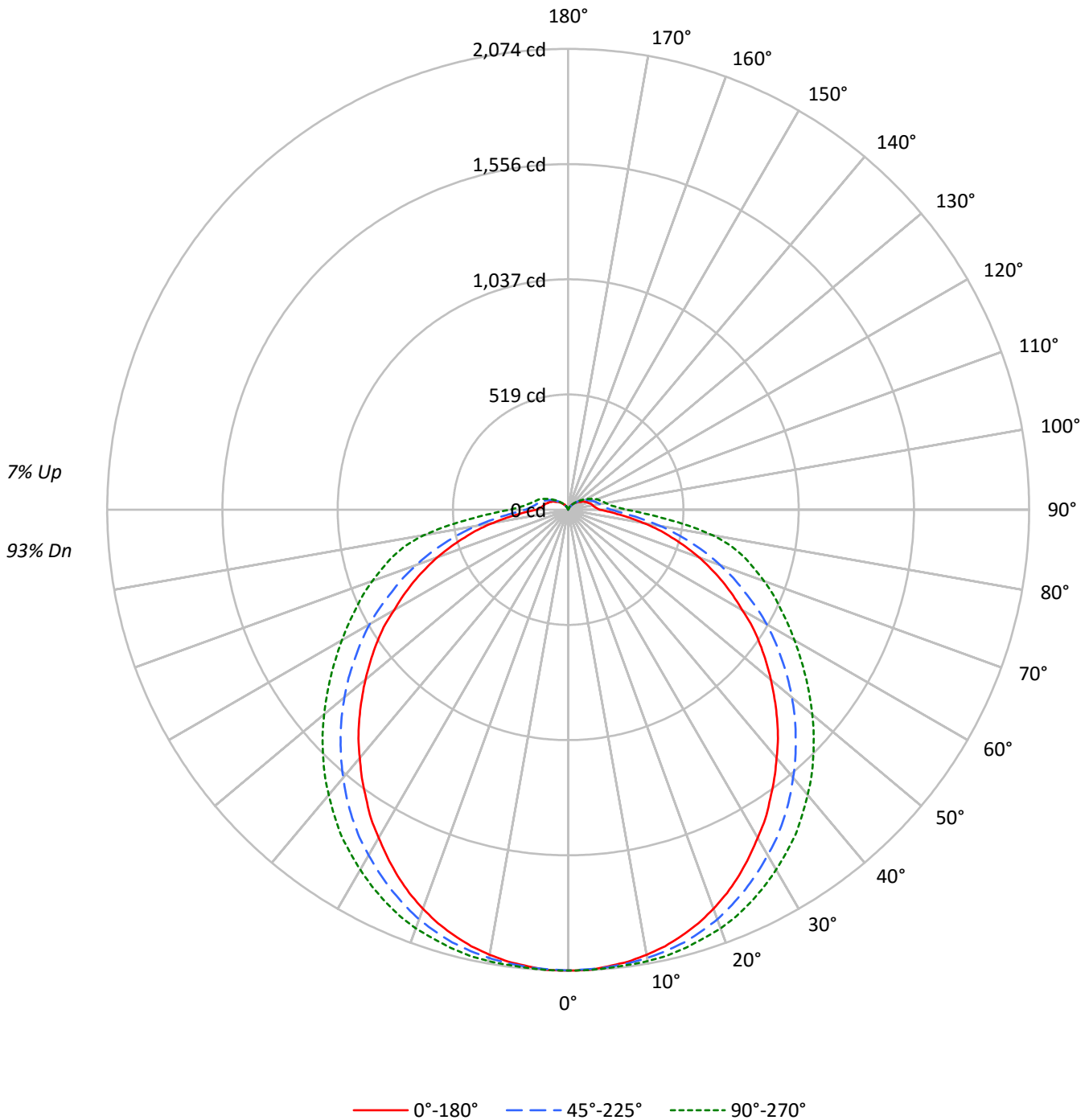
Lumens per Lamp: N/A  
Luminaire Lumens: 7257.2 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

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: P384711  
CATALOG NUMBER: 24ID-75-L835-CFD3

### Luminous Intensity Polar Plot





TEST NUMBER: P384711

CATALOG NUMBER: 24ID-75-L835-CFD3

**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2790	2790	2790
5°	2771	2759	2766
10°	2749	2735	2758
15°	2717	2712	2751
20°	2675	2680	2746
25°	2621	2636	2732
30°	2556	2591	2711
35°	2495	2546	2695
40°	2434	2488	2664
45°	2379	2432	2638
50°	2320	2375	2611
55°	2268	2313	2593
60°	2197	2257	2602
65°	2154	2171	2644
70°	2102	2098	2745
75°	2029	1989	2900
80°	1967	1857	2987
85°	1988	1710	2692



TEST NUMBER: P384711

CATALOG NUMBER: 24ID-75-L835-CFD3

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.6	2.7
10°-20°	568.2	7.8
20°-30°	868.2	12.0
30°-40°	1056.8	14.6
40°-50°	1117.0	15.4
50°-60°	1054.4	14.5
60°-70°	887.1	12.2
70°-80°	639.5	8.8
80°-90°	337.3	4.6
90°-100°	180.5	2.5
100°-110°	137.1	1.9
110°-120°	99.4	1.4
120°-130°	62.4	0.9
130°-140°	33.7	0.5
140°-150°	14.7	0.2
150°-160°	3.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1633.1	22.5
0°-40°	2689.9	37.1
0°-60°	4861.2	67.0
0°-90°	6725.1	92.7
90°-120°	417.1	5.7
90°-150°	528.0	7.3
90°-180°	532.0	7.3
0°-180°	7257.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2063	2063	2067	2067	2070	196
15°	1983	1991	2016	2030	2041	559
25°	1817	1839	1886	1929	1947	837
35°	1585	1621	1694	1759	1784	993
45°	1328	1368	1448	1527	1560	1025
55°	1053	1100	1173	1260	1303	941
65°	767	811	876	984	1053	759
75°	481	521	572	684	818	511
85°	221	250	279	348	424	207
90°	141	166	192	228	261	81
95°	123	141	163	185	199	98
105°	105	116	130	145	152	110
115°	83	90	101	109	116	84
125°	62	62	72	72	76	55
135°	43	40	43	43	47	33
145°	25	22	22	22	25	16
155°	11	11	4	7	11	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384711

CATALOG NUMBER: 24ID-75-L835-CFD3

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	2073.9	2070.2	2070.2	2070.2	2073.9
5°	2063.0	2063.0	2066.6	2066.6	2070.2
7.5°	2052.1	2052.1	2059.4	2063.0	2066.6
10°	2034.0	2037.7	2048.5	2055.8	2063.0
12.5°	2012.3	2015.9	2034.0	2048.5	2055.8
15°	1983.4	1990.6	2015.9	2030.4	2041.3
17.5°	1950.8	1961.7	1990.6	2012.3	2023.2
20°	1911.0	1925.5	1961.7	1990.6	2005.1
22.5°	1867.6	1882.0	1925.5	1961.7	1979.7
25°	1816.9	1838.6	1885.6	1929.1	1947.2
27.5°	1762.6	1787.9	1842.2	1892.9	1911.0
30°	1704.7	1733.6	1795.2	1849.5	1871.2
32.5°	1650.4	1679.3	1748.1	1806.0	1827.7
35°	1585.2	1621.4	1693.8	1759.0	1784.3
37.5°	1523.7	1559.9	1635.9	1704.7	1730.0
40°	1458.6	1494.8	1574.4	1650.4	1675.7
42.5°	1397.0	1433.2	1512.9	1592.5	1621.4
45°	1328.3	1368.1	1447.7	1527.3	1559.9
47.5°	1259.5	1299.3	1382.6	1465.8	1498.4
50°	1190.7	1234.2	1313.8	1397.0	1433.2
52.5°	1122.0	1165.4	1245.0	1331.9	1368.1
55°	1053.2	1100.3	1172.6	1259.5	1302.9
57.5°	984.4	1031.5	1103.9	1194.4	1237.8
60°	904.8	959.1	1031.5	1125.6	1176.3
62.5°	836.1	883.1	955.5	1053.2	1114.7
65°	767.3	810.7	875.9	984.4	1053.2
67.5°	694.9	742.0	803.5	904.8	998.9
70°	626.1	665.9	727.5	832.4	937.4
72.5°	553.8	593.6	651.5	760.0	875.9
75°	481.4	521.2	571.8	684.0	818.0
77.5°	416.2	448.8	495.8	604.4	749.2
80°	343.8	376.4	419.8	517.6	658.7
82.5°	278.7	307.6	343.8	430.7	542.9
85°	220.8	249.7	278.7	347.5	423.5
87.5°	177.3	199.1	228.0	278.7	329.4
90°	141.2	166.5	191.8	228.0	260.6
92.5°	130.3	152.0	173.7	202.7	224.4
95°	123.1	141.2	162.9	184.6	199.1
97.5°	115.8	133.9	152.0	173.7	184.6
100°	112.2	126.7	144.8	162.9	170.1
102.5°	108.6	119.4	137.5	152.0	162.9
105°	105.0	115.8	130.3	144.8	152.0
107.5°	97.7	108.6	123.1	137.5	144.8
110°	94.1	101.3	115.8	126.7	137.5



TEST NUMBER: P384711

CATALOG NUMBER: 24ID-75-L835-CFD3

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	90.5	97.7	108.6	119.4	126.7
115°	83.2	90.5	101.3	108.6	115.8
117.5°	79.6	83.2	94.1	97.7	105.0
120°	72.4	76.0	86.9	90.5	94.1
122.5°	65.1	68.8	79.6	79.6	86.9
125°	61.5	61.5	72.4	72.4	76.0
127.5°	57.9	57.9	65.1	65.1	68.8
130°	50.7	50.7	57.9	57.9	57.9
132.5°	47.1	43.4	50.7	50.7	54.3
135°	43.4	39.8	43.4	43.4	47.1
137.5°	36.2	36.2	39.8	36.2	39.8
140°	32.6	29.0	32.6	32.6	36.2
142.5°	29.0	25.3	29.0	25.3	29.0
145°	25.3	21.7	21.7	21.7	25.3
147.5°	21.7	18.1	18.1	18.1	21.7
150°	18.1	14.5	14.5	14.5	18.1
152.5°	14.5	10.9	7.2	10.9	14.5
155°	10.9	10.9	3.6	7.2	10.9
157.5°	7.2	7.2	0.0	3.6	7.2
160°	3.6	3.6	0.0	3.6	3.6
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)