

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: P384210

Luminaire Tested: **24ID-80-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384210  
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-80-L830-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

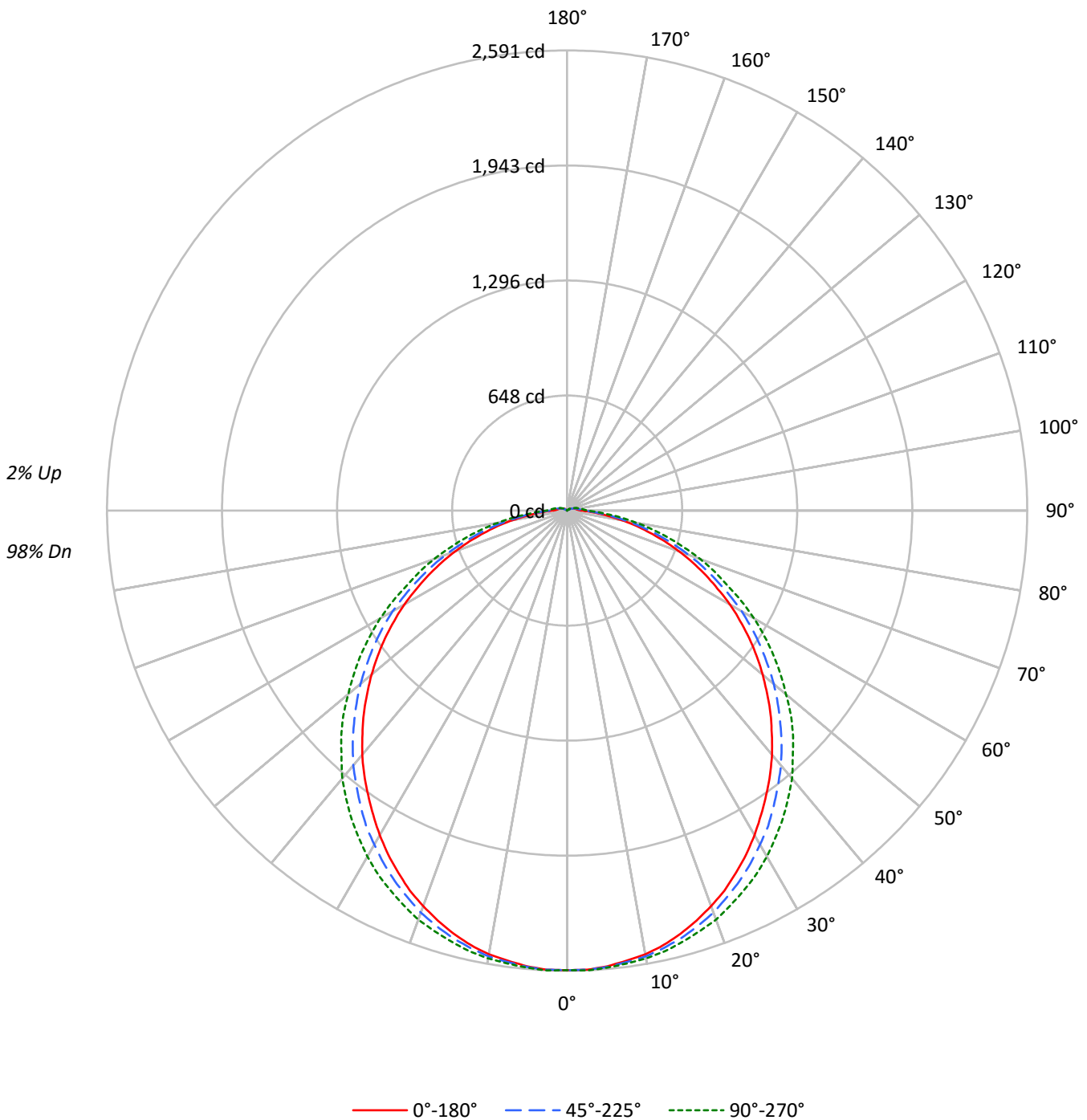
Lumens per Lamp: N/A  
Luminaire Lumens: 7663.4 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 77  
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: P384210  
CATALOG NUMBER: 24ID-80-L830-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°	3481	3481	3481
5°	3473	3471	3477
10°	3453	3455	3472
15°	3417	3428	3463
20°	3368	3394	3458
25°	3307	3346	3434
30°	3239	3290	3413
35°	3164	3231	3379
40°	3098	3171	3343
45°	3020	3094	3286
50°	2936	3021	3208
55°	2850	2932	3140
60°	2755	2836	3052
65°	2629	2689	2907
70°	2486	2549	2812
75°	2324	2358	2657
80°	2154	2143	2484
85°	2084	1993	2356



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.1	3.2
10°-20°	702.5	9.2
20°-30°	1060.6	13.8
30°-40°	1270.8	16.6
40°-50°	1313.8	17.1
50°-60°	1189.8	15.5
60°-70°	920.7	12.0
70°-80°	565.5	7.4
80°-90°	224.7	2.9
90°-100°	82.0	1.1
100°-110°	50.4	0.7
110°-120°	25.9	0.3
120°-130°	11.1	0.1
130°-140°	0.8	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°	2008.1	26.2
0°-40°	3278.9	42.8
0°-60°	5782.4	75.5
0°-90°	7493.4	97.8
90°-120°	158.2	2.1
90°-150°	170.1	2.2
90°-180°	170.0	2.2
0°-180°	7663.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2576	2576	2580	2580	2584	245
15°	2467	2471	2490	2506	2514	695
25°	2250	2265	2300	2339	2358	1037
35°	1954	1978	2028	2082	2117	1223
45°	1620	1640	1698	1768	1799	1249
55°	1251	1278	1329	1387	1418	1118
65°	862	882	925	971	995	853
75°	482	505	528	563	590	513
85°	167	179	194	214	225	166
90°	78	89	97	109	117	46
95°	58	66	74	82	89	47
105°	43	43	47	50	54	45
115°	27	23	23	27	31	28
125°	16	12	8	12	16	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: P384210

CATALOG NUMBER: 24ID-80-L830-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2587.5	2583.6	2587.5	2587.5	2591.4
5°	2575.9	2575.9	2579.7	2579.7	2583.6
7.5°	2556.4	2556.4	2564.2	2568.1	2572.0
10°	2537.0	2537.0	2548.7	2552.5	2560.3
12.5°	2505.9	2509.8	2521.5	2533.1	2540.9
15°	2467.1	2471.0	2490.4	2505.9	2513.7
17.5°	2420.5	2428.2	2451.5	2474.8	2482.6
20°	2369.9	2381.6	2408.8	2436.0	2451.5
22.5°	2315.6	2323.3	2354.4	2389.4	2404.9
25°	2249.5	2265.0	2300.0	2338.9	2358.3
27.5°	2183.5	2199.0	2237.9	2284.5	2307.8
30°	2109.6	2125.2	2171.8	2222.3	2249.5
32.5°	2031.9	2051.4	2105.8	2156.3	2183.5
35°	1954.2	1977.5	2028.1	2082.4	2117.4
37.5°	1876.5	1896.0	1950.4	2008.6	2043.6
40°	1794.9	1814.4	1872.6	1930.9	1969.8
42.5°	1705.6	1728.9	1787.2	1849.3	1880.4
45°	1620.1	1639.5	1697.8	1767.7	1798.8
47.5°	1526.9	1554.1	1608.5	1674.5	1709.5
50°	1437.5	1460.8	1519.1	1581.3	1608.5
52.5°	1344.3	1367.6	1422.0	1484.1	1515.2
55°	1251.0	1278.2	1328.7	1387.0	1418.1
57.5°	1153.9	1181.1	1231.6	1282.1	1317.1
60°	1060.6	1087.8	1134.5	1185.0	1216.1
62.5°	955.7	979.1	1029.6	1084.0	1107.3
65°	862.5	881.9	924.7	971.3	994.6
67.5°	765.4	788.7	827.5	870.3	897.5
70°	668.2	695.4	726.5	765.4	796.5
72.5°	575.0	598.3	625.5	664.4	691.6
75°	481.8	505.1	528.4	563.3	590.5
77.5°	400.2	411.8	435.1	466.2	493.4
80°	310.8	326.4	345.8	376.9	396.3
82.5°	233.1	248.7	264.2	287.5	306.9
85°	167.1	178.7	194.3	213.7	225.3
87.5°	112.7	124.3	136.0	151.5	163.2
90°	77.7	89.4	97.1	108.8	116.6
92.5°	66.0	73.8	81.6	89.4	97.1
95°	58.3	66.0	73.8	81.6	89.4
97.5°	54.4	58.3	66.0	73.8	77.7
100°	50.5	54.4	58.3	66.0	69.9
102.5°	46.6	46.6	54.4	58.3	62.2
105°	42.7	42.7	46.6	50.5	54.4
107.5°	38.9	38.9	42.7	42.7	50.5
110°	35.0	31.1	35.0	35.0	42.7



TEST NUMBER: P384210

CATALOG NUMBER: 24ID-80-L830-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.1	27.2	31.1	31.1	35.0
115°	27.2	23.3	23.3	27.2	31.1
117.5°	23.3	19.4	19.4	19.4	27.2
120°	23.3	19.4	15.5	15.5	23.3
122.5°	19.4	15.5	11.7	15.5	19.4
125°	15.5	11.7	7.8	11.7	15.5
127.5°	11.7	11.7	3.9	7.8	11.7
130°	11.7	7.8	3.9	7.8	7.8
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)