

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: P383874

Luminaire Tested: **24ID-80-L830-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-80-L830-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

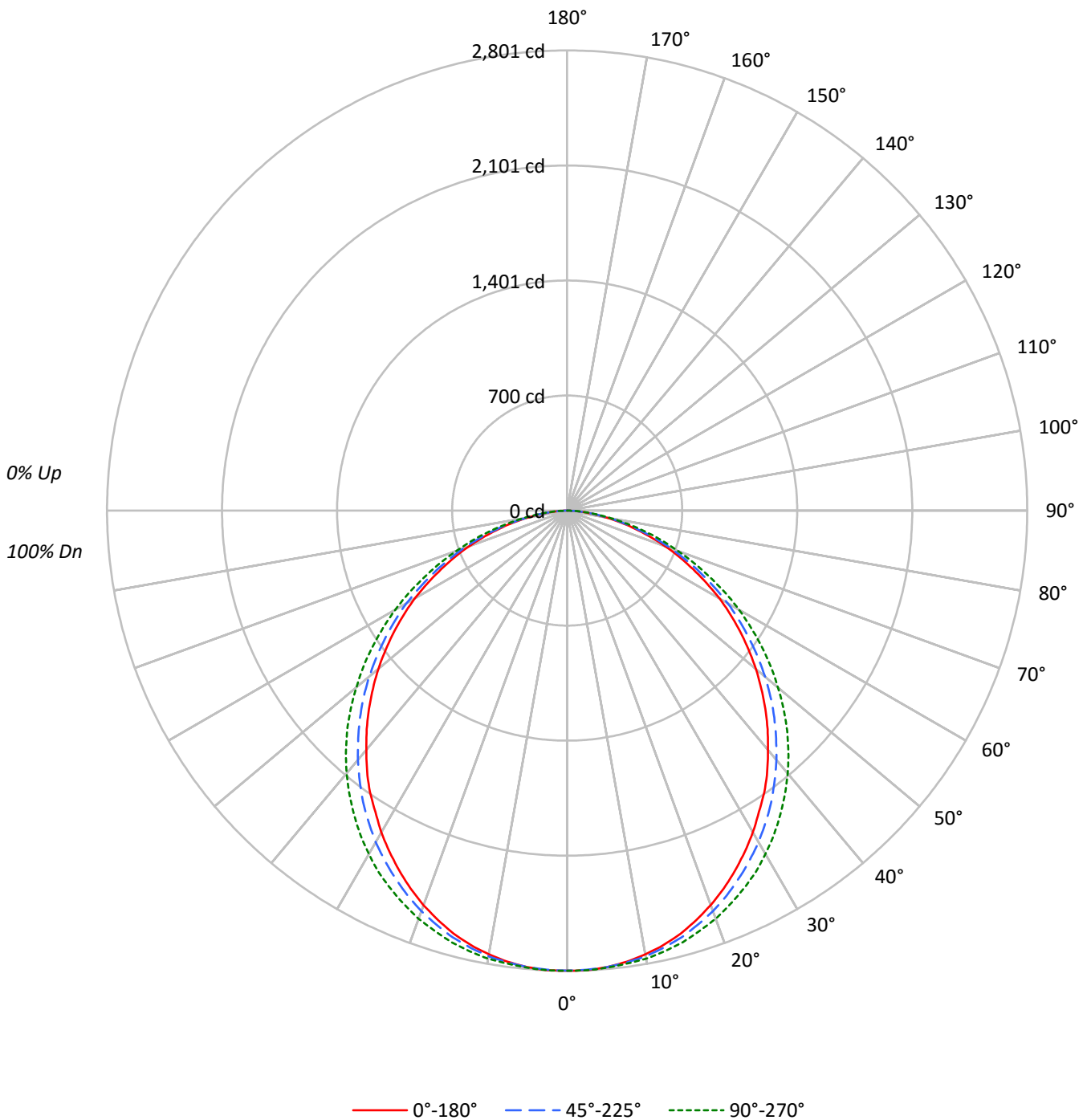
Lumens per Lamp: N/A  
Luminaire Lumens: 7606.4 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 77  
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



TEST NUMBER: P383874  
CATALOG NUMBER: 24ID-80-L830-CFR1

### Luminous Intensity Polar Plot





TEST NUMBER: P383874

CATALOG NUMBER: 24ID-80-L830-CFR1

**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	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	3768	3768	3768
5°	3767	3767	3772
10°	3748	3764	3785
15°	3715	3747	3789
20°	3660	3714	3786
25°	3590	3669	3772
30°	3513	3620	3751
35°	3438	3557	3714
40°	3340	3481	3669
45°	3247	3393	3604
50°	3139	3292	3508
55°	3016	3168	3393
60°	2883	3037	3254
65°	2692	2850	3045
70°	2498	2634	2815
75°	2228	2347	2546
80°	1867	1956	2135
85°	1417	1417	1595



TEST NUMBER: P383874

CATALOG NUMBER: 24ID-80-L830-CFR1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.1	3.5
10°-20°	758.5	10.0
20°-30°	1140.4	15.0
30°-40°	1356.7	17.8
40°-50°	1380.5	18.1
50°-60°	1214.9	16.0
60°-70°	891.2	11.7
70°-80°	483.7	6.4
80°-90°	115.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2164.0	28.4
0°-40°	3520.7	46.3
0°-60°	6116.1	80.4
0°-90°	7606.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7606.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2801	2801	2801	2801	2801	
5°	2789	2785	2789	2789	2793	265
15°	2667	2671	2690	2705	2720	751
25°	2418	2433	2472	2514	2541	1114
35°	2093	2108	2166	2231	2261	1307
45°	1706	1722	1783	1860	1894	1315
55°	1286	1305	1351	1416	1446	1150
65°	846	861	895	934	956	840
75°	428	436	452	474	490	455
85°	92	92	92	100	103	111
90°	0	0	0	0	0	



TEST NUMBER: P383874

CATALOG NUMBER: 24ID-80-L830-CFR1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2800.7	2800.7	2800.7	2800.7	2800.7
2.5°	2800.7	2796.9	2796.9	2796.9	2800.7
5°	2789.3	2785.4	2789.3	2789.3	2793.1
7.5°	2770.1	2766.3	2774.0	2777.8	2781.6
10°	2743.3	2743.3	2754.8	2762.5	2770.1
12.5°	2708.9	2712.7	2724.2	2735.7	2747.2
15°	2666.8	2670.7	2689.8	2705.1	2720.4
17.5°	2613.3	2620.9	2643.9	2666.8	2682.1
20°	2555.9	2567.3	2594.1	2624.7	2643.9
22.5°	2490.8	2506.1	2536.7	2575.0	2594.1
25°	2418.1	2433.4	2471.7	2513.8	2540.6
27.5°	2341.6	2360.7	2402.8	2452.6	2483.2
30°	2261.3	2280.4	2330.1	2383.7	2414.3
32.5°	2173.3	2196.2	2249.8	2311.0	2341.6
35°	2092.9	2108.2	2165.6	2230.6	2261.3
37.5°	2001.1	2020.2	2073.8	2142.6	2177.1
40°	1901.6	1920.7	1981.9	2050.8	2089.1
42.5°	1805.9	1821.2	1882.5	1959.0	1993.4
45°	1706.5	1721.8	1783.0	1859.5	1893.9
47.5°	1603.2	1622.3	1679.7	1752.4	1786.8
50°	1499.8	1515.2	1572.5	1641.4	1675.9
52.5°	1392.7	1408.0	1461.6	1530.5	1564.9
55°	1285.6	1304.7	1350.6	1415.7	1446.3
57.5°	1178.5	1197.6	1239.7	1300.9	1327.7
60°	1071.3	1086.6	1128.7	1182.3	1209.1
62.5°	956.5	968.0	1010.1	1063.7	1086.6
65°	845.6	860.9	895.3	933.6	956.5
67.5°	742.3	749.9	780.5	822.6	837.9
70°	635.1	642.8	669.6	704.0	715.5
72.5°	528.0	539.5	558.6	589.2	604.5
75°	428.5	436.2	451.5	474.4	489.7
77.5°	332.9	336.7	348.2	367.3	378.8
80°	241.0	244.9	252.5	267.8	275.5
82.5°	160.7	164.5	168.4	176.0	183.7
85°	91.8	91.8	91.8	99.5	103.3
87.5°	34.4	30.6	30.6	30.6	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)