

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: P383826

Luminaire Tested: **22ID-85-L830-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383826  
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: 22ID-85-L830-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

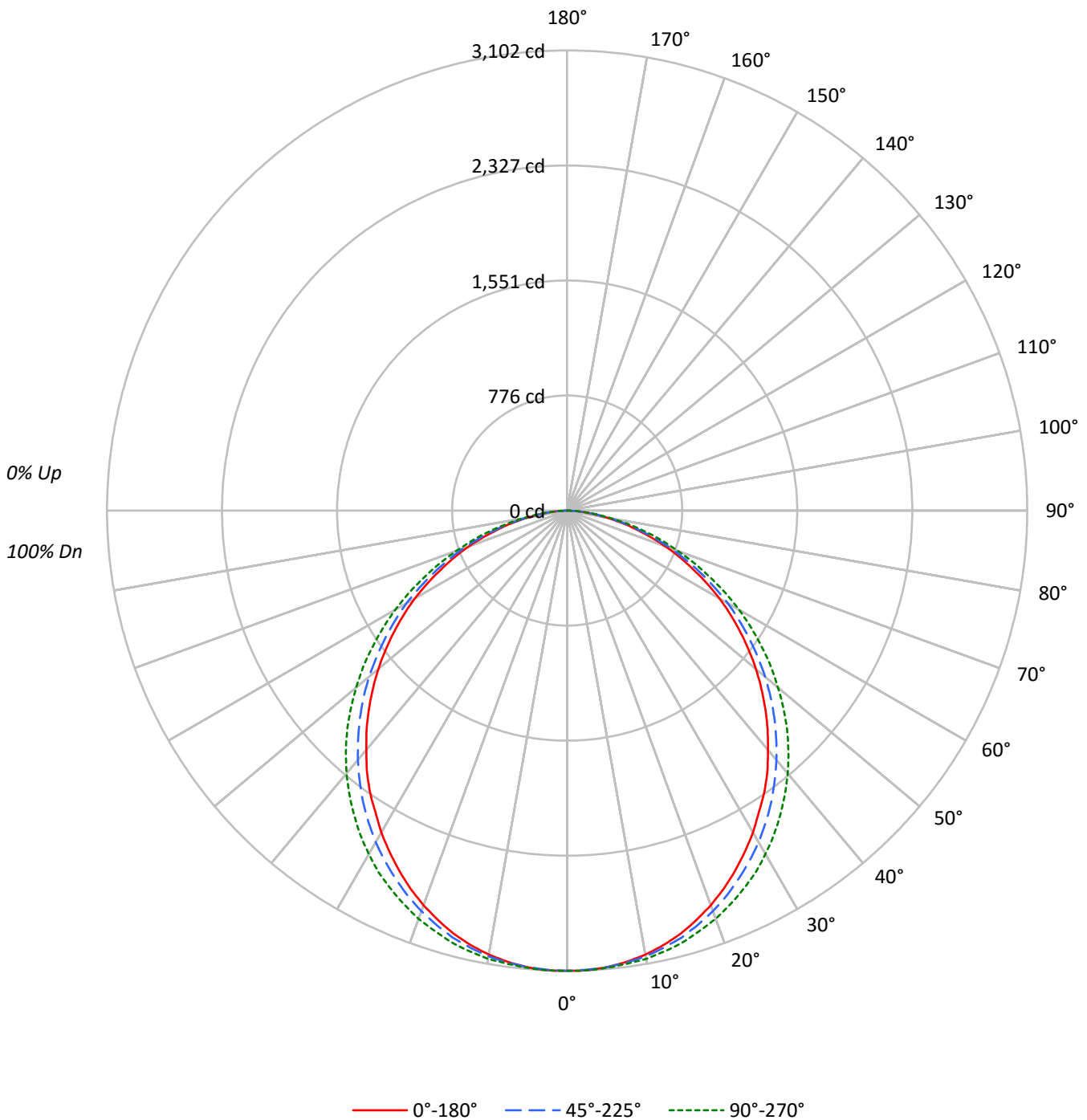
Lumens per Lamp: N/A  
Luminaire Lumens: 8425.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 76.8  
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: P383826  
CATALOG NUMBER: 22ID-85-L830-CFR1

### Luminous Intensity Polar Plot





TEST NUMBER: P383826

CATALOG NUMBER: 22ID-85-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°	8348	8348	8348
5°	8346	8346	8357
10°	8303	8338	8384
15°	8229	8300	8394
20°	8107	8228	8386
25°	7953	8129	8355
30°	7782	8020	8309
35°	7615	7880	8228
40°	7399	7712	8128
45°	7193	7516	7983
50°	6955	7292	7771
55°	6681	7019	7516
60°	6386	6729	7208
65°	5964	6315	6746
70°	5535	5835	6235
75°	4936	5200	5640
80°	4138	4334	4728
85°	3140	3140	3532



TEST NUMBER: P383826

CATALOG NUMBER: 22ID-85-L830-CFR1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.6	3.5
10°-20°	840.1	10.0
20°-30°	1263.2	15.0
30°-40°	1502.7	17.8
40°-50°	1529.0	18.1
50°-60°	1345.7	16.0
60°-70°	987.1	11.7
70°-80°	535.8	6.4
80°-90°	127.8	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°	2396.9	28.4
0°-40°	3899.6	46.3
0°-60°	6774.3	80.4
0°-90°	8425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8425.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3102	3102	3102	3102	3102	
5°	3090	3085	3090	3090	3094	293
15°	2954	2958	2979	2996	3013	832
25°	2678	2695	2738	2784	2814	1234
35°	2318	2335	2399	2471	2505	1448
45°	1890	1907	1975	2060	2098	1457
55°	1424	1445	1496	1568	1602	1273
65°	937	954	992	1034	1060	931
75°	475	483	500	526	542	504
85°	102	102	102	110	114	123
90°	0	0	0	0	0	



TEST NUMBER: P383826

CATALOG NUMBER: 22ID-85-L830-CFR1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3102.2	3102.2	3102.2	3102.2	3102.2
2.5°	3102.2	3098.0	3098.0	3098.0	3102.2
5°	3089.5	3085.2	3089.5	3089.5	3093.7
7.5°	3068.3	3064.0	3072.5	3076.8	3081.0
10°	3038.6	3038.6	3051.3	3059.8	3068.3
12.5°	3000.5	3004.7	3017.4	3030.1	3042.9
15°	2953.9	2958.1	2979.3	2996.2	3013.2
17.5°	2894.5	2903.0	2928.4	2953.9	2970.8
20°	2831.0	2843.7	2873.3	2907.2	2928.4
22.5°	2758.9	2775.9	2809.8	2852.2	2873.3
25°	2678.4	2695.3	2737.7	2784.3	2814.0
27.5°	2593.6	2614.8	2661.4	2716.5	2750.4
30°	2504.6	2525.8	2580.9	2640.3	2674.2
32.5°	2407.2	2432.6	2491.9	2559.7	2593.6
35°	2318.2	2335.1	2398.7	2470.7	2504.6
37.5°	2216.5	2237.6	2297.0	2373.3	2411.4
40°	2106.3	2127.5	2195.3	2271.6	2313.9
42.5°	2000.3	2017.3	2085.1	2169.8	2208.0
45°	1890.1	1907.1	1974.9	2059.7	2097.8
47.5°	1775.7	1796.9	1860.5	1941.0	1979.1
50°	1661.3	1678.2	1741.8	1818.1	1856.2
52.5°	1542.6	1559.6	1618.9	1695.2	1733.3
55°	1424.0	1445.1	1496.0	1568.0	1602.0
57.5°	1305.3	1326.5	1373.1	1440.9	1470.6
60°	1186.6	1203.6	1250.2	1309.5	1339.2
62.5°	1059.5	1072.2	1118.8	1178.2	1203.6
65°	936.6	953.5	991.7	1034.1	1059.5
67.5°	822.2	830.6	864.5	911.2	928.1
70°	703.5	712.0	741.6	779.8	792.5
72.5°	584.8	597.6	618.7	652.6	669.6
75°	474.7	483.1	500.1	525.5	542.5
77.5°	368.7	372.9	385.7	406.8	419.6
80°	267.0	271.2	279.7	296.7	305.1
82.5°	178.0	182.2	186.5	194.9	203.4
85°	101.7	101.7	101.7	110.2	114.4
87.5°	38.1	33.9	33.9	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)