

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: P383774

Luminaire Tested: **22ID-20-L830-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383774  
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-20-L830-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

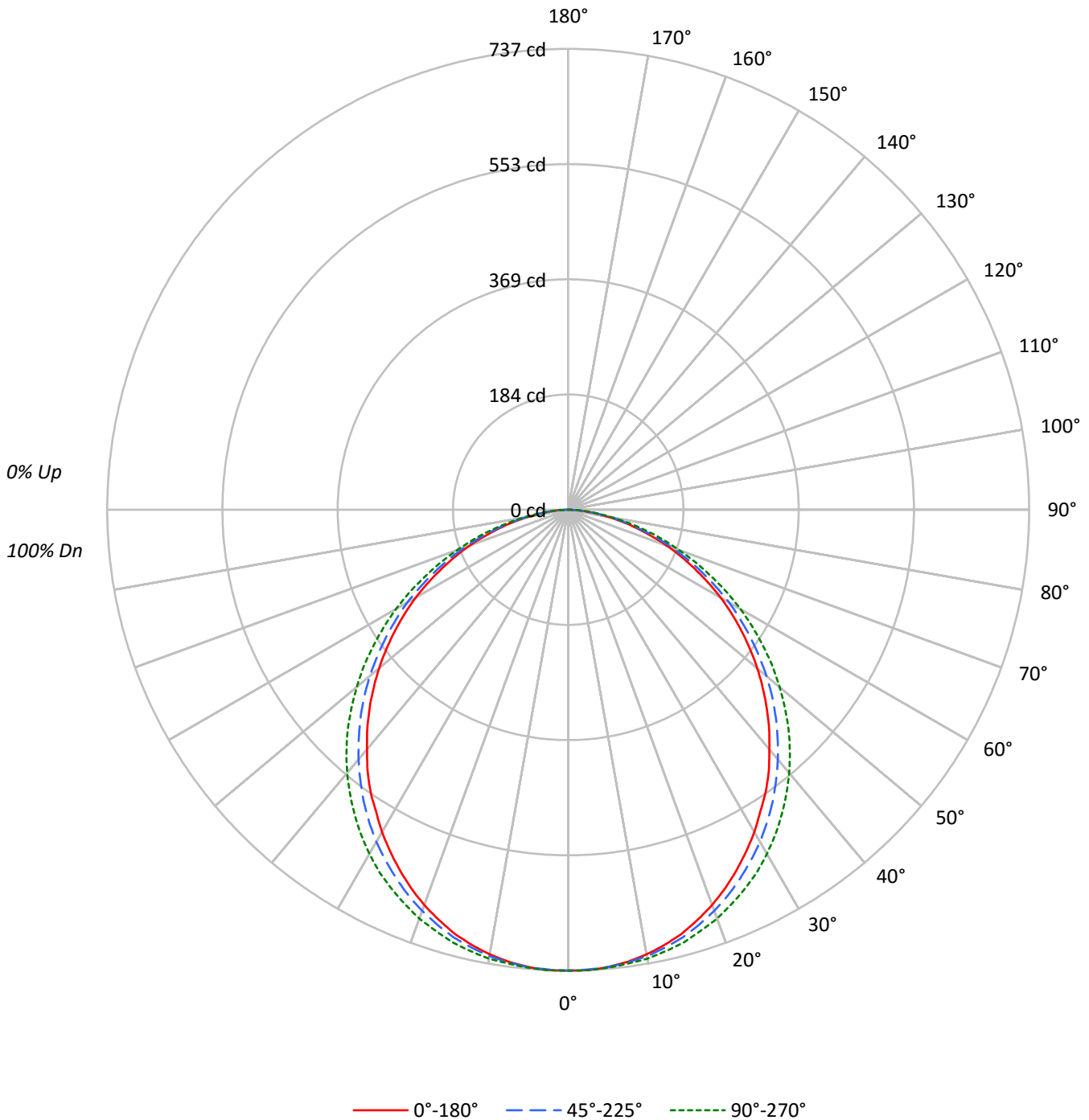
Lumens per Lamp: N/A  
Luminaire Lumens: 2001.9 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.3  
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: P383774  
CATALOG NUMBER: 22ID-20-L830-CFR1

### Luminous Intensity Polar Plot





TEST NUMBER: P383774

CATALOG NUMBER: 22ID-20-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°	1984	1984	1984
5°	1983	1983	1986
10°	1973	1981	1992
15°	1955	1972	1995
20°	1926	1955	1993
25°	1890	1931	1985
30°	1849	1906	1974
35°	1809	1872	1955
40°	1758	1832	1931
45°	1709	1786	1897
50°	1652	1733	1847
55°	1587	1668	1786
60°	1518	1599	1713
65°	1417	1500	1603
70°	1316	1386	1482
75°	1173	1235	1340
80°	982	1031	1124
85°	747	747	840



TEST NUMBER: P383774

CATALOG NUMBER: 22ID-20-L830-CFR1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	3.5
10°-20°	199.6	10.0
20°-30°	300.2	15.0
30°-40°	357.1	17.8
40°-50°	363.3	18.1
50°-60°	319.8	16.0
60°-70°	234.5	11.7
70°-80°	127.3	6.4
80°-90°	30.4	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°	569.5	28.4
0°-40°	926.6	46.3
0°-60°	1609.7	80.4
0°-90°	2001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	734	733	734	734	735	70
15°	702	703	708	712	716	198
25°	636	640	650	662	669	293
35°	551	555	570	587	595	344
45°	449	453	469	489	498	346
55°	338	343	356	373	381	303
65°	222	227	236	246	252	221
75°	113	115	119	125	129	120
85°	24	24	24	26	27	29
90°	0	0	0	0	0	



TEST NUMBER: P383774

CATALOG NUMBER: 22ID-20-L830-CFR1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	737.1	737.1	737.1	737.1	737.1
2.5°	737.1	736.1	736.1	736.1	737.1
5°	734.1	733.1	734.1	734.1	735.1
7.5°	729.1	728.1	730.1	731.1	732.1
10°	722.0	722.0	725.0	727.0	729.1
12.5°	712.9	714.0	717.0	720.0	723.0
15°	701.9	702.9	707.9	711.9	716.0
17.5°	687.8	689.8	695.8	701.9	705.9
20°	672.7	675.7	682.7	690.8	695.8
22.5°	655.6	659.6	667.6	677.7	682.7
25°	636.4	640.4	650.5	661.6	668.6
27.5°	616.3	621.3	632.4	645.5	653.5
30°	595.1	600.2	613.3	627.4	635.4
32.5°	572.0	578.0	592.1	608.2	616.3
35°	550.8	554.9	570.0	587.1	595.1
37.5°	526.7	531.7	545.8	563.9	573.0
40°	500.5	505.5	521.6	539.7	549.8
42.5°	475.3	479.3	495.4	515.6	524.6
45°	449.1	453.1	469.3	489.4	498.5
47.5°	421.9	427.0	442.1	461.2	470.3
50°	394.7	398.8	413.9	432.0	441.1
52.5°	366.5	370.6	384.7	402.8	411.9
55°	338.3	343.4	355.5	372.6	380.6
57.5°	310.2	315.2	326.3	342.4	349.4
60°	282.0	286.0	297.1	311.2	318.2
62.5°	251.7	254.8	265.8	279.9	286.0
65°	222.5	226.6	235.6	245.7	251.7
67.5°	195.4	197.4	205.4	216.5	220.5
70°	167.2	169.2	176.2	185.3	188.3
72.5°	139.0	142.0	147.0	155.1	159.1
75°	112.8	114.8	118.8	124.9	128.9
77.5°	87.6	88.6	91.6	96.7	99.7
80°	63.4	64.4	66.5	70.5	72.5
82.5°	42.3	43.3	44.3	46.3	48.3
85°	24.2	24.2	24.2	26.2	27.2
87.5°	9.1	8.1	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)