

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: P383998

Luminaire Tested: **22ID-90-L830-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-90-L830-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

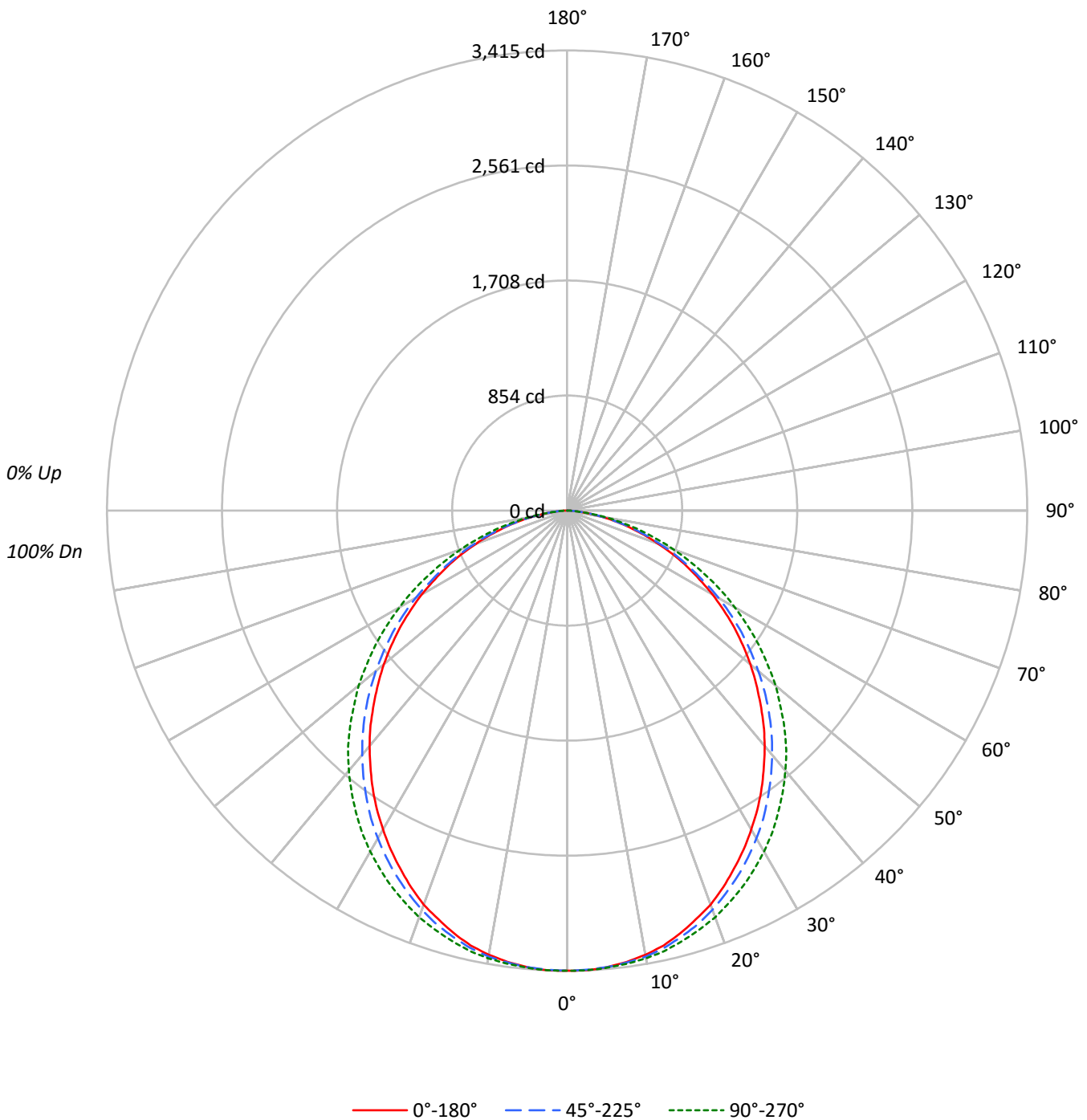
Lumens per Lamp: N/A  
Luminaire Lumens: 9014.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 84.1  
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



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### 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	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	9189	9189	9189
5°	9187	9187	9199
10°	9145	9182	9219
15°	9047	9123	9211
20°	8912	9028	9196
25°	8704	8891	9146
30°	8491	8730	9080
35°	8265	8532	8977
40°	8012	8314	8853
45°	7718	8061	8680
50°	7431	7752	8452
55°	7099	7416	8137
60°	6709	7001	7730
65°	6241	6442	7219
70°	5651	5864	6610
75°	4931	5119	5777
80°	3990	4060	4550
85°	2371	2649	2232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.3	3.6
10°-20°	923.9	10.2
20°-30°	1382.1	15.3
30°-40°	1632.9	18.1
40°-50°	1647.6	18.3
50°-60°	1430.9	15.9
60°-70°	1026.0	11.4
70°-80°	534.5	5.9
80°-90°	112.8	1.3
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°	2629.2	29.2
0°-40°	4262.1	47.3
0°-60°	7340.6	81.4
0°-90°	9014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3415	3415	3415	3415	3415	
5°	3401	3397	3401	3401	3406	323
15°	3248	3252	3275	3297	3306	915
25°	2931	2949	2995	3053	3080	1351
35°	2516	2534	2597	2692	2733	1573
45°	2028	2051	2118	2227	2281	1566
55°	1513	1527	1581	1685	1734	1351
65°	980	976	1012	1088	1134	969
75°	474	470	492	528	556	506
85°	77	86	86	77	72	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3414.6	3414.6	3414.6	3414.6	3414.6
2.5°	3414.6	3410.1	3410.1	3410.1	3414.6
5°	3401.1	3396.6	3401.1	3401.1	3405.6
7.5°	3378.5	3374.0	3383.0	3387.5	3392.0
10°	3346.9	3346.9	3360.4	3369.5	3374.0
12.5°	3306.2	3306.2	3324.3	3337.8	3346.9
15°	3247.5	3252.0	3274.6	3297.2	3306.2
17.5°	3179.8	3193.3	3220.4	3252.0	3261.1
20°	3112.0	3121.0	3152.7	3193.3	3211.4
22.5°	3026.2	3039.7	3075.9	3130.1	3148.1
25°	2931.3	2949.4	2994.6	3053.3	3080.4
27.5°	2836.5	2850.0	2904.2	2972.0	3003.6
30°	2732.6	2750.7	2809.4	2886.2	2922.3
32.5°	2628.7	2642.3	2710.0	2791.3	2832.0
35°	2515.8	2533.9	2597.1	2692.0	2732.6
37.5°	2398.4	2420.9	2484.2	2583.6	2628.7
40°	2280.9	2294.5	2366.7	2466.1	2520.3
42.5°	2159.0	2177.0	2244.8	2353.2	2407.4
45°	2028.0	2050.6	2118.3	2226.7	2280.9
47.5°	1901.5	1924.1	1987.3	2095.7	2145.4
50°	1775.1	1788.6	1851.8	1960.2	2019.0
52.5°	1644.1	1657.6	1716.3	1820.2	1874.4
55°	1513.1	1526.6	1580.8	1684.7	1734.4
57.5°	1377.6	1386.6	1440.8	1535.7	1585.4
60°	1246.6	1251.1	1300.8	1386.6	1436.3
62.5°	1106.6	1111.1	1147.2	1246.6	1291.8
65°	980.1	975.6	1011.7	1088.5	1133.7
67.5°	849.1	849.1	880.8	948.5	984.6
70°	718.2	718.2	745.3	804.0	840.1
72.5°	596.2	596.2	618.8	664.0	691.1
75°	474.3	469.7	492.3	528.5	555.6
77.5°	361.3	361.3	370.4	402.0	420.1
80°	257.5	257.5	262.0	280.0	293.6
82.5°	162.6	162.6	162.6	171.6	176.2
85°	76.8	85.8	85.8	76.8	72.3
87.5°	36.1	36.1	31.6	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)