

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: P384000

Luminaire Tested: **22ID-90-L840-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384000  
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-L840-CFR2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

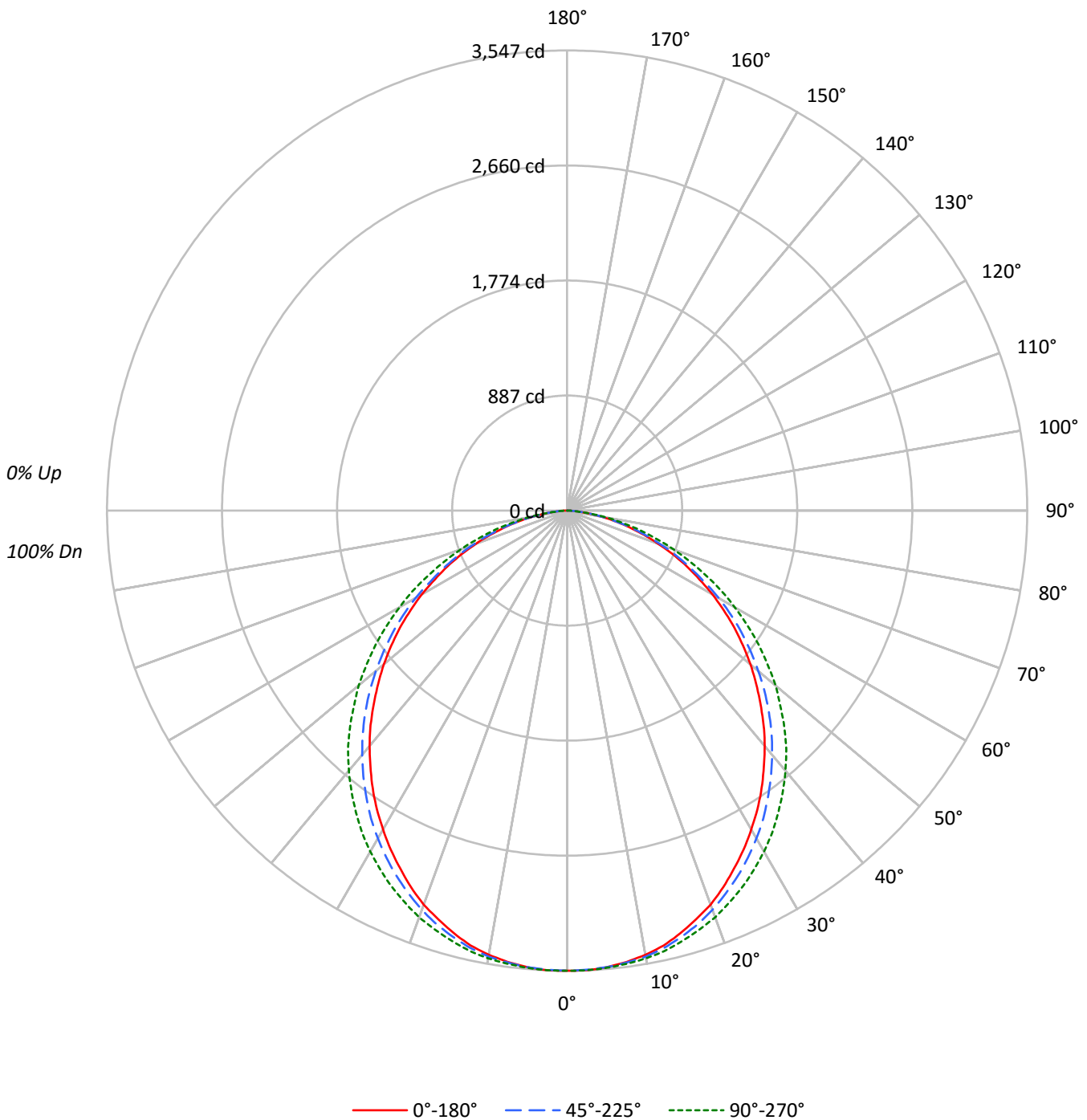
Lumens per Lamp: N/A  
Luminaire Lumens: 9363.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 85.5  
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



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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°	9544	9544	9544
5°	9543	9543	9555
10°	9500	9538	9576
15°	9397	9476	9567
20°	9257	9378	9552
25°	9041	9236	9500
30°	8820	9068	9432
35°	8585	8862	9324
40°	8323	8636	9196
45°	8017	8374	9016
50°	7719	8053	8779
55°	7374	7704	8452
60°	6969	7272	8029
65°	6483	6691	7498
70°	5869	6091	6866
75°	5122	5317	6000
80°	4144	4217	4727
85°	2464	2751	2319



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.8	3.6
10°-20°	959.7	10.2
20°-30°	1435.6	15.3
30°-40°	1696.1	18.1
40°-50°	1711.4	18.3
50°-60°	1486.3	15.9
60°-70°	1065.8	11.4
70°-80°	555.2	5.9
80°-90°	117.2	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°	2731.0	29.2
0°-40°	4427.1	47.3
0°-60°	7624.8	81.4
0°-90°	9363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3547	3547	3547	3547	3547	
5°	3533	3528	3533	3533	3537	335
15°	3373	3378	3401	3425	3434	951
25°	3045	3064	3110	3172	3200	1403
35°	2613	2632	2698	2796	2838	1634
45°	2106	2130	2200	2313	2369	1627
55°	1572	1586	1642	1750	1802	1404
65°	1018	1013	1051	1131	1178	1007
75°	493	488	511	549	577	525
85°	80	89	89	80	75	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3546.8	3546.8	3546.8	3546.8	3546.8
2.5°	3546.8	3542.1	3542.1	3542.1	3546.8
5°	3532.8	3528.1	3532.8	3532.8	3537.4
7.5°	3509.3	3504.6	3514.0	3518.7	3523.4
10°	3476.5	3476.5	3490.5	3499.9	3504.6
12.5°	3434.2	3434.2	3453.0	3467.1	3476.5
15°	3373.2	3377.9	3401.4	3424.8	3434.2
17.5°	3302.9	3316.9	3345.1	3377.9	3387.3
20°	3232.5	3241.9	3274.7	3316.9	3335.7
22.5°	3143.4	3157.4	3195.0	3251.3	3270.0
25°	3044.8	3063.6	3110.5	3171.5	3199.7
27.5°	2946.3	2960.4	3016.7	3087.1	3119.9
30°	2838.4	2857.2	2918.2	2997.9	3035.4
32.5°	2730.5	2744.6	2814.9	2899.4	2941.6
35°	2613.2	2632.0	2697.7	2796.2	2838.4
37.5°	2491.2	2514.7	2580.4	2683.6	2730.5
40°	2369.2	2383.3	2458.4	2561.6	2617.9
42.5°	2242.6	2261.3	2331.7	2444.3	2500.6
45°	2106.5	2130.0	2200.3	2312.9	2369.2
47.5°	1975.2	1998.6	2064.3	2176.9	2228.5
50°	1843.8	1857.9	1923.5	2036.1	2097.1
52.5°	1707.7	1721.8	1782.8	1890.7	1947.0
55°	1571.7	1585.8	1642.1	1750.0	1801.6
57.5°	1430.9	1440.3	1496.6	1595.1	1646.7
60°	1294.9	1299.6	1351.2	1440.3	1491.9
62.5°	1149.4	1154.1	1191.7	1294.9	1341.8
65°	1018.1	1013.4	1050.9	1130.7	1177.6
67.5°	882.0	882.0	914.9	985.2	1022.8
70°	746.0	746.0	774.1	835.1	872.6
72.5°	619.3	619.3	642.7	689.7	717.8
75°	492.6	487.9	511.4	548.9	577.1
77.5°	375.3	375.3	384.7	417.5	436.3
80°	267.4	267.4	272.1	290.9	305.0
82.5°	168.9	168.9	168.9	178.3	183.0
85°	79.8	89.1	89.1	79.8	75.1
87.5°	37.5	37.5	32.8	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)