

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: P383832

Luminaire Tested: **22ID-90-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383832  
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-90-L840-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

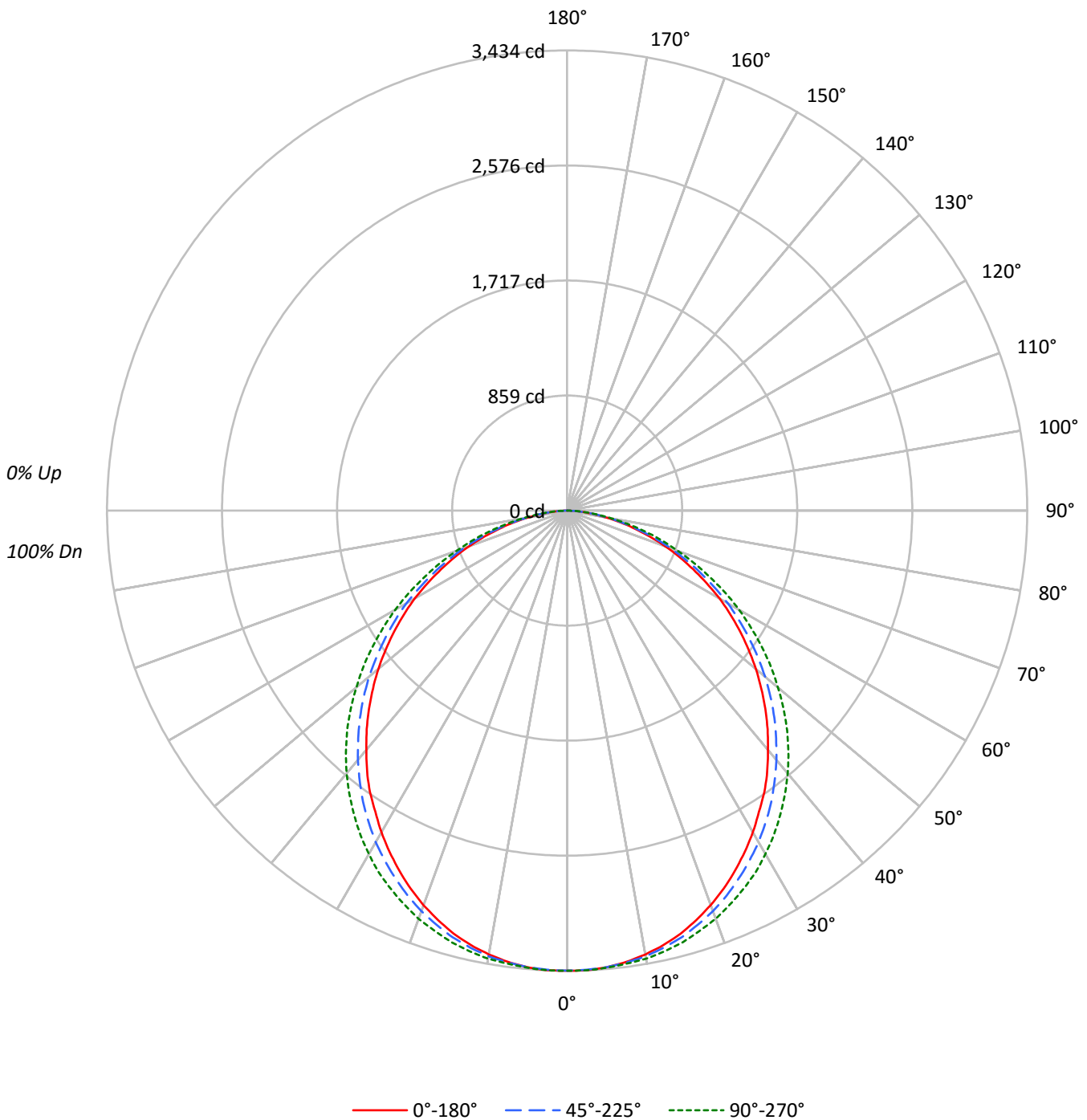
Lumens per Lamp: N/A  
Luminaire Lumens: 9325.5 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	9240	9240	9240
5°	9237	9237	9250
10°	9190	9229	9280
15°	9109	9187	9292
20°	8973	9108	9282
25°	8802	8997	9248
30°	8614	8877	9197
35°	8429	8722	9107
40°	8190	8536	8997
45°	7962	8319	8837
50°	7698	8071	8601
55°	7394	7769	8319
60°	7069	7448	7978
65°	6601	6989	7467
70°	6127	6459	6902
75°	5463	5755	6242
80°	4579	4798	5233
85°	3477	3477	3912



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.0	3.5
10°-20°	929.9	10.0
20°-30°	1398.2	15.0
30°-40°	1663.3	17.8
40°-50°	1692.4	18.1
50°-60°	1489.5	16.0
60°-70°	1092.6	11.7
70°-80°	593.1	6.4
80°-90°	141.5	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°	2653.1	28.4
0°-40°	4316.4	46.3
0°-60°	7498.3	80.4
0°-90°	9325.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9325.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3434	3434	3434	3434	3434	
5°	3420	3415	3420	3420	3424	325
15°	3270	3274	3298	3316	3335	921
25°	2965	2983	3030	3082	3115	1365
35°	2566	2585	2655	2735	2772	1602
45°	2092	2111	2186	2280	2322	1613
55°	1576	1600	1656	1736	1773	1410
65°	1037	1055	1098	1145	1173	1030
75°	525	535	554	582	600	558
85°	113	113	113	122	127	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3433.7	3433.7	3433.7	3433.7	3433.7
2.5°	3433.7	3429.0	3429.0	3429.0	3433.7
5°	3419.7	3415.0	3419.7	3419.7	3424.3
7.5°	3396.2	3391.5	3400.9	3405.6	3410.3
10°	3363.4	3363.4	3377.4	3386.8	3396.2
12.5°	3321.1	3325.8	3339.9	3354.0	3368.1
15°	3269.5	3274.2	3297.7	3316.5	3335.2
17.5°	3203.9	3213.3	3241.4	3269.5	3288.3
20°	3133.5	3147.6	3180.4	3217.9	3241.4
22.5°	3053.8	3072.5	3110.1	3157.0	3180.4
25°	2964.6	2983.4	3030.3	3081.9	3114.7
27.5°	2870.8	2894.3	2945.9	3006.9	3044.4
30°	2772.3	2795.8	2856.7	2922.4	2959.9
32.5°	2664.4	2692.6	2758.2	2833.3	2870.8
35°	2565.9	2584.7	2655.0	2734.8	2772.3
37.5°	2453.3	2476.8	2542.5	2626.9	2669.1
40°	2331.4	2354.8	2429.9	2514.3	2561.2
42.5°	2214.1	2232.9	2307.9	2401.7	2443.9
45°	2092.1	2110.9	2186.0	2279.8	2322.0
47.5°	1965.5	1988.9	2059.3	2148.4	2190.6
50°	1838.8	1857.6	1928.0	2012.4	2054.6
52.5°	1707.5	1726.2	1791.9	1876.4	1918.6
55°	1576.1	1599.6	1655.9	1735.6	1773.2
57.5°	1444.8	1468.2	1519.8	1594.9	1627.7
60°	1313.4	1332.2	1383.8	1449.5	1482.3
62.5°	1172.7	1186.8	1238.4	1304.1	1332.2
65°	1036.7	1055.4	1097.7	1144.6	1172.7
67.5°	910.0	919.4	956.9	1008.5	1027.3
70°	778.7	788.1	820.9	863.1	877.2
72.5°	647.3	661.4	684.9	722.4	741.2
75°	525.4	534.8	553.5	581.7	600.4
77.5°	408.1	412.8	426.9	450.3	464.4
80°	295.5	300.2	309.6	328.4	337.7
82.5°	197.0	201.7	206.4	215.8	225.2
85°	112.6	112.6	112.6	122.0	126.7
87.5°	42.2	37.5	37.5	37.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)