

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: P383941

Luminaire Tested: **14ID-85-L850-CFR2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383941  
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: 14ID-85-L850-CFR2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

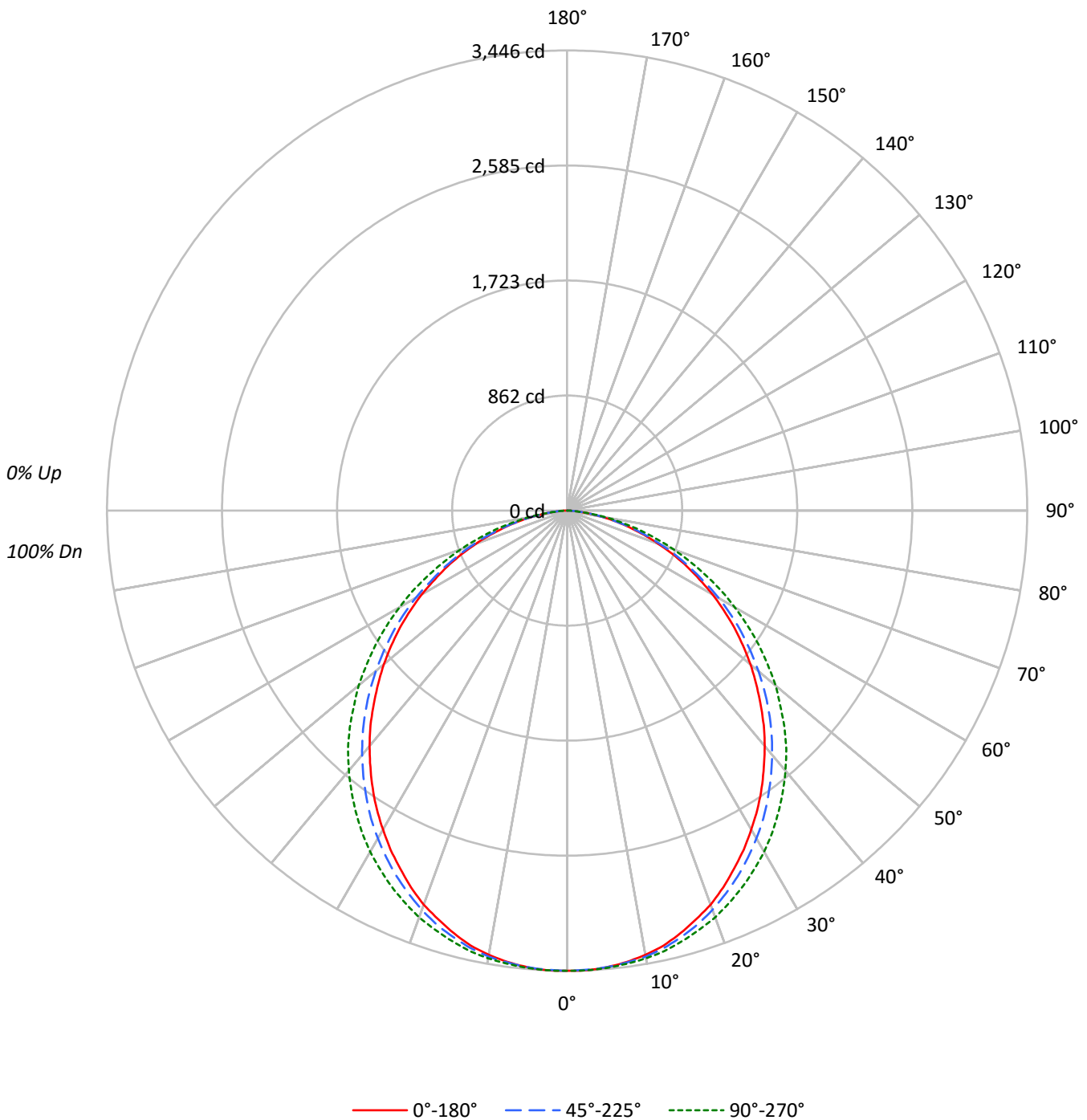
Lumens per Lamp: N/A  
Luminaire Lumens: 9097.5 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 83.3  
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°	9274	9274	9274
5°	9272	9272	9284
10°	9230	9268	9305
15°	9131	9207	9296
20°	8994	9112	9281
25°	8784	8974	9231
30°	8570	8810	9165
35°	8341	8611	9060
40°	8087	8391	8936
45°	7789	8136	8761
50°	7500	7824	8531
55°	7165	7485	8213
60°	6772	7066	7802
65°	6299	6502	7286
70°	5703	5918	6671
75°	4976	5166	5830
80°	4026	4097	4592
85°	2393	2674	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.3	3.6
10°-20°	932.5	10.2
20°-30°	1394.9	15.3
30°-40°	1648.0	18.1
40°-50°	1662.9	18.3
50°-60°	1444.1	15.9
60°-70°	1035.5	11.4
70°-80°	539.5	5.9
80°-90°	113.9	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°	2653.6	29.2
0°-40°	4301.6	47.3
0°-60°	7408.6	81.4
0°-90°	9097.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9097.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3446	3446	3446	3446	3446	
5°	3433	3428	3433	3433	3437	326
15°	3278	3282	3305	3328	3337	924
25°	2958	2977	3022	3082	3109	1363
35°	2539	2557	2621	2717	2758	1587
45°	2047	2070	2138	2247	2302	1581
55°	1527	1541	1596	1700	1750	1364
65°	989	985	1021	1099	1144	978
75°	479	474	497	533	561	511
85°	78	87	87	78	73	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3446.3	3446.3	3446.3	3446.3	3446.3
2.5°	3446.3	3441.7	3441.7	3441.7	3446.3
5°	3432.6	3428.0	3432.6	3432.6	3437.1
7.5°	3409.8	3405.2	3414.3	3418.9	3423.5
10°	3377.9	3377.9	3391.6	3400.7	3405.2
12.5°	3336.8	3336.8	3355.1	3368.8	3377.9
15°	3277.6	3282.1	3304.9	3327.7	3336.8
17.5°	3209.2	3222.9	3250.2	3282.1	3291.3
20°	3140.8	3149.9	3181.9	3222.9	3241.1
22.5°	3054.2	3067.9	3104.4	3159.1	3177.3
25°	2958.5	2976.7	3022.3	3081.6	3108.9
27.5°	2862.8	2876.4	2931.1	2999.5	3031.4
30°	2757.9	2776.1	2835.4	2912.9	2949.4
32.5°	2653.1	2666.7	2735.1	2817.2	2858.2
35°	2539.1	2557.3	2621.2	2716.9	2757.9
37.5°	2420.6	2443.4	2507.2	2607.5	2653.1
40°	2302.1	2315.7	2388.7	2489.0	2543.7
42.5°	2179.0	2197.2	2265.6	2375.0	2429.7
45°	2046.8	2069.6	2138.0	2247.4	2302.1
47.5°	1919.1	1941.9	2005.8	2115.2	2165.3
50°	1791.5	1805.2	1869.0	1978.4	2037.7
52.5°	1659.3	1673.0	1732.2	1837.1	1891.8
55°	1527.1	1540.8	1595.5	1700.3	1750.5
57.5°	1390.4	1399.5	1454.2	1549.9	1600.0
60°	1258.2	1262.7	1312.9	1399.5	1449.6
62.5°	1116.8	1121.4	1157.9	1258.2	1303.7
65°	989.2	984.6	1021.1	1098.6	1144.2
67.5°	857.0	857.0	888.9	957.3	993.8
70°	724.8	724.8	752.2	811.4	847.9
72.5°	601.7	601.7	624.5	670.1	697.5
75°	478.6	474.1	496.9	533.3	560.7
77.5°	364.7	364.7	373.8	405.7	423.9
80°	259.8	259.8	264.4	282.6	296.3
82.5°	164.1	164.1	164.1	173.2	177.8
85°	77.5	86.6	86.6	77.5	72.9
87.5°	36.5	36.5	31.9	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)