

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: P383769

Luminaire Tested: **14ID-80-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383769  
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: 14ID-80-L850-CFR1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

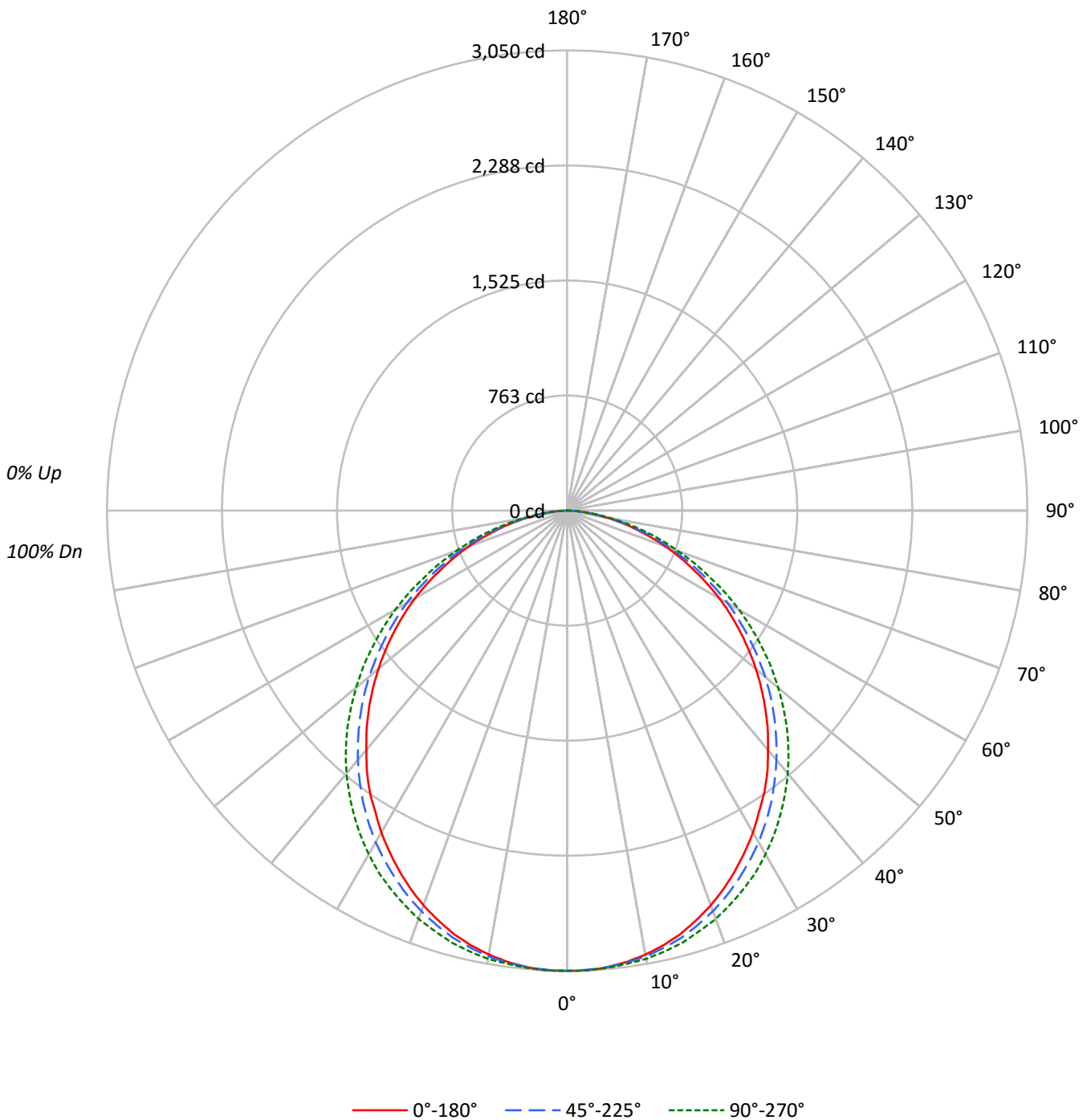
Lumens per Lamp: N/A  
Luminaire Lumens: 8284.7 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 77.1  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71				71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60				60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31				31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	8209	8209	8209
5°	8206	8206	8218
10°	8165	8199	8244
15°	8092	8162	8255
20°	7972	8091	8246
25°	7820	7993	8216
30°	7653	7886	8171
35°	7488	7749	8091
40°	7276	7583	7993
45°	7073	7391	7850
50°	6839	7170	7641
55°	6569	6902	7391
60°	6280	6617	7087
65°	5864	6209	6634
70°	5443	5738	6131
75°	4852	5112	5546
80°	4068	4262	4649
85°	3088	3088	3473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.7	3.5
10°-20°	826.1	10.0
20°-30°	1242.1	15.0
30°-40°	1477.7	17.8
40°-50°	1503.6	18.1
50°-60°	1323.2	16.0
60°-70°	970.7	11.7
70°-80°	526.9	6.4
80°-90°	125.7	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°	2357.0	28.4
0°-40°	3834.7	46.3
0°-60°	6661.5	80.4
0°-90°	8284.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8284.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	3038	3034	3038	3038	3042	288
15°	2905	2909	2930	2946	2963	818
25°	2634	2650	2692	2738	2767	1213
35°	2280	2296	2359	2430	2463	1423
45°	1859	1875	1942	2025	2063	1433
55°	1400	1421	1471	1542	1575	1252
65°	921	938	975	1017	1042	915
75°	467	475	492	517	533	496
85°	100	100	100	108	112	121
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3050.5	3050.5	3050.5	3050.5	3050.5
2.5°	3050.5	3046.3	3046.3	3046.3	3050.5
5°	3038.0	3033.8	3038.0	3038.0	3042.2
7.5°	3017.2	3013.0	3021.3	3025.5	3029.7
10°	2988.0	2988.0	3000.5	3008.8	3017.2
12.5°	2950.5	2954.6	2967.1	2979.7	2992.2
15°	2904.6	2908.8	2929.6	2946.3	2963.0
17.5°	2846.3	2854.6	2879.6	2904.6	2921.3
20°	2783.8	2796.3	2825.5	2858.8	2879.6
22.5°	2712.9	2729.6	2762.9	2804.6	2825.5
25°	2633.8	2650.4	2692.1	2737.9	2767.1
27.5°	2550.4	2571.3	2617.1	2671.3	2704.6
30°	2462.9	2483.7	2537.9	2596.3	2629.6
32.5°	2367.1	2392.1	2450.4	2517.1	2550.4
35°	2279.5	2296.2	2358.7	2429.6	2462.9
37.5°	2179.5	2200.4	2258.7	2333.7	2371.2
40°	2071.2	2092.0	2158.7	2233.7	2275.4
42.5°	1967.0	1983.7	2050.3	2133.7	2171.2
45°	1858.6	1875.3	1942.0	2025.3	2062.8
47.5°	1746.1	1767.0	1829.5	1908.6	1946.1
50°	1633.6	1650.3	1712.8	1787.8	1825.3
52.5°	1516.9	1533.6	1591.9	1666.9	1704.4
55°	1400.2	1421.1	1471.1	1541.9	1575.3
57.5°	1283.5	1304.4	1350.2	1416.9	1446.1
60°	1166.9	1183.5	1229.4	1287.7	1316.9
62.5°	1041.8	1054.3	1100.2	1158.5	1183.5
65°	921.0	937.7	975.2	1016.8	1041.8
67.5°	808.5	816.8	850.1	896.0	912.6
70°	691.8	700.1	729.3	766.8	779.3
72.5°	575.1	587.6	608.4	641.8	658.4
75°	466.7	475.1	491.7	516.8	533.4
77.5°	362.6	366.7	379.2	400.1	412.6
80°	262.5	266.7	275.0	291.7	300.0
82.5°	175.0	179.2	183.4	191.7	200.0
85°	100.0	100.0	100.0	108.4	112.5
87.5°	37.5	33.3	33.3	33.3	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)