

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: P383877

Luminaire Tested: **24ID-80-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383877
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: 24ID-80-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

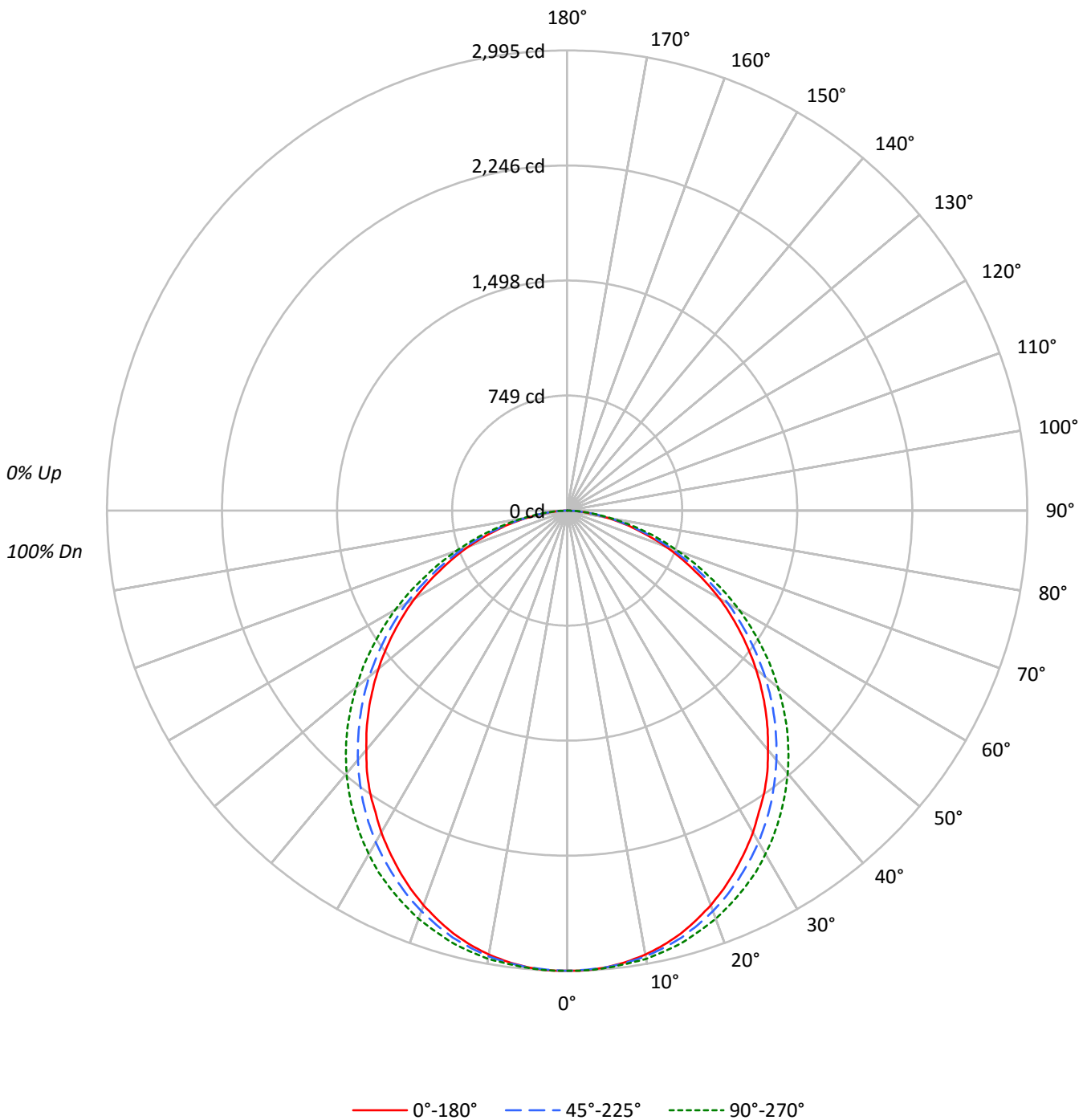
Lumens per Lamp: N/A
Luminaire Lumens: 8134.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 77
Input Voltage (V): NR
Input Current (A_{in}): 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°	4030	4030	4030
5°	4029	4029	4034
10°	4008	4025	4048
15°	3973	4007	4053
20°	3914	3972	4049
25°	3839	3924	4034
30°	3757	3872	4011
35°	3676	3804	3972
40°	3572	3723	3924
45°	3473	3628	3854
50°	3358	3520	3751
55°	3225	3388	3628
60°	3083	3248	3479
65°	2879	3048	3257
70°	2672	2817	3010
75°	2383	2510	2723
80°	1998	2093	2283
85°	1516	1516	1706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	3.5
10°-20°	811.1	10.0
20°-30°	1219.6	15.0
30°-40°	1450.9	17.8
40°-50°	1476.3	18.1
50°-60°	1299.3	16.0
60°-70°	953.1	11.7
70°-80°	517.3	6.4
80°-90°	123.4	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°	2314.3	28.4
0°-40°	3765.2	46.3
0°-60°	6540.8	80.4
0°-90°	8134.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8134.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2995	2995	2995	2995	2995	
5°	2983	2979	2983	2983	2987	283
15°	2852	2856	2877	2893	2909	803
25°	2586	2602	2643	2688	2717	1191
35°	2238	2255	2316	2386	2418	1398
45°	1825	1841	1907	1989	2026	1407
55°	1375	1395	1444	1514	1547	1230
65°	904	921	958	998	1023	899
75°	458	466	483	507	524	487
85°	98	98	98	106	110	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2995.2	2995.2	2995.2	2995.2	2995.2
2.5°	2995.2	2991.1	2991.1	2991.1	2995.2
5°	2983.0	2978.9	2983.0	2983.0	2987.0
7.5°	2962.5	2958.4	2966.6	2970.7	2974.8
10°	2933.8	2933.8	2946.1	2954.3	2962.5
12.5°	2897.0	2901.1	2913.4	2925.7	2937.9
15°	2852.0	2856.1	2876.6	2892.9	2909.3
17.5°	2794.7	2802.9	2827.5	2852.0	2868.4
20°	2733.3	2745.6	2774.3	2807.0	2827.5
22.5°	2663.8	2680.2	2712.9	2753.8	2774.3
25°	2586.0	2602.4	2643.3	2688.3	2717.0
27.5°	2504.2	2524.7	2569.7	2622.9	2655.6
30°	2418.3	2438.7	2491.9	2549.2	2582.0
32.5°	2324.2	2348.7	2406.0	2471.5	2504.2
35°	2238.2	2254.6	2316.0	2385.5	2418.3
37.5°	2140.0	2160.5	2217.8	2291.4	2328.3
40°	2033.6	2054.1	2119.6	2193.2	2234.1
42.5°	1931.3	1947.7	2013.2	2095.0	2131.8
45°	1825.0	1841.3	1906.8	1988.6	2025.5
47.5°	1714.5	1734.9	1796.3	1874.1	1910.9
50°	1604.0	1620.4	1681.7	1755.4	1792.2
52.5°	1489.4	1505.8	1563.1	1636.7	1673.6
55°	1374.9	1395.3	1444.4	1514.0	1546.7
57.5°	1260.3	1280.7	1325.8	1391.2	1419.9
60°	1145.7	1162.1	1207.1	1264.4	1293.0
62.5°	1023.0	1035.2	1080.2	1137.5	1162.1
65°	904.3	920.7	957.5	998.4	1023.0
67.5°	793.8	802.0	834.7	879.7	896.1
70°	679.2	687.4	716.1	752.9	765.2
72.5°	564.7	576.9	597.4	630.1	646.5
75°	458.3	466.5	482.8	507.4	523.8
77.5°	356.0	360.1	372.4	392.8	405.1
80°	257.8	261.9	270.1	286.4	294.6
82.5°	171.9	175.9	180.0	188.2	196.4
85°	98.2	98.2	98.2	106.4	110.5
87.5°	36.8	32.7	32.7	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)