

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: FAIL-SAFE

Report Number: P835656

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835656
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-6HI-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

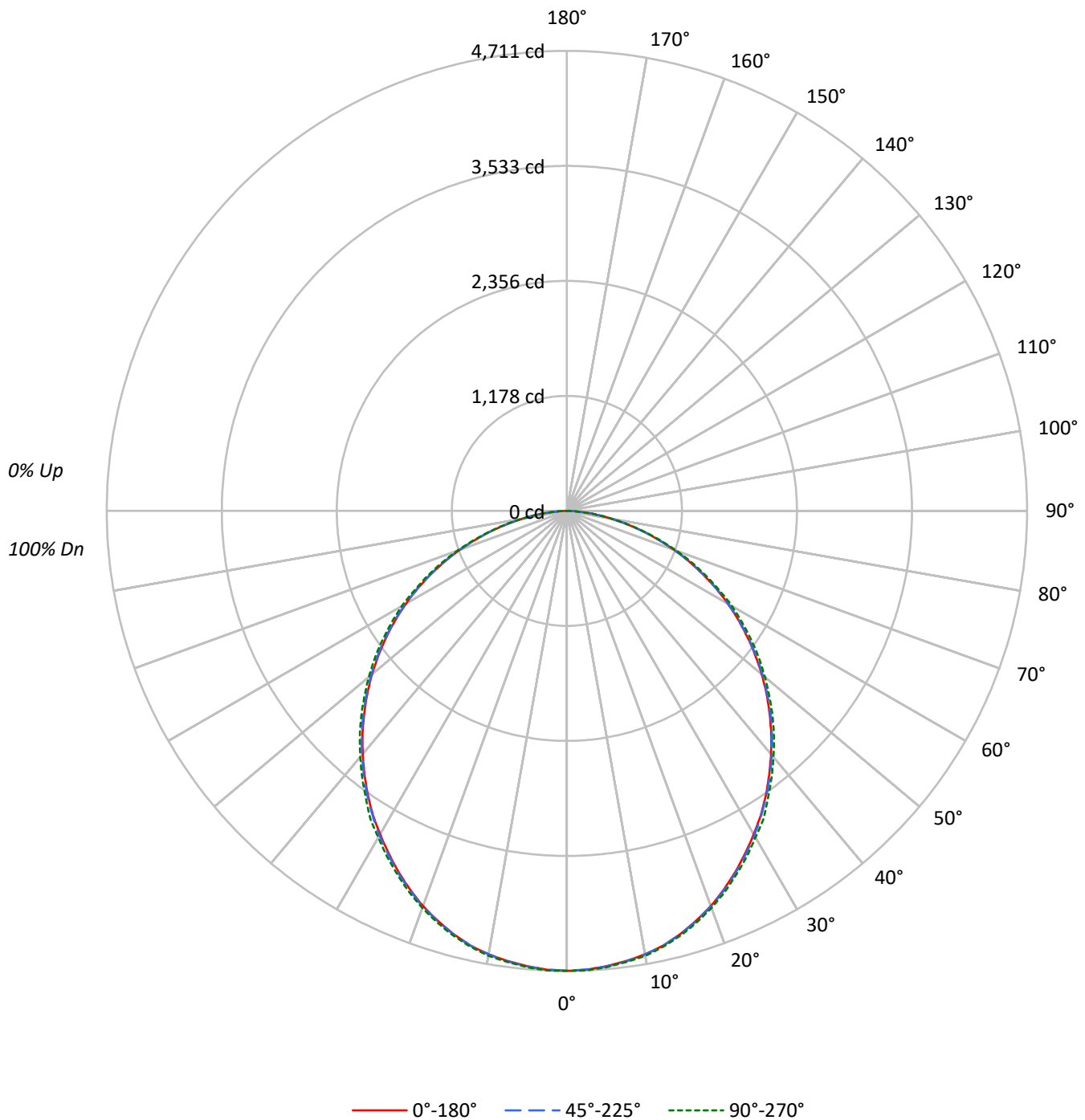
Lumens per Lamp: N/A
Luminaire Lumens: 12726.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
Input Voltage (V): 120
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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12673	12673	12673
5°	12640	12651	12667
10°	12600	12603	12640
15°	12496	12504	12539
20°	12334	12348	12392
25°	12111	12139	12194
30°	11883	11922	11995
35°	11666	11695	11788
40°	11420	11457	11560
45°	11169	11218	11333
50°	10899	10948	11075
55°	10590	10640	10815
60°	10239	10281	10512
65°	9791	9822	10008
70°	9190	9198	9398
75°	8354	8323	8516
80°	7178	7147	7268
85°	5570	5480	5508

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.0	3.5
10°-20°	1265.9	9.9
20°-30°	1884.6	14.8
30°-40°	2228.7	17.5
40°-50°	2275.2	17.9
50°-60°	2030.5	16.0
60°-70°	1529.4	12.0
70°-80°	852.9	6.7
80°-90°	213.7	1.7
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°	3595.6	28.3
0°-40°	5824.3	45.8
0°-60°	10130.0	79.6
0°-90°	12726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4710	4710	4710	4710	4710	
5°	4679	4688	4683	4684	4689	444
15°	4485	4490	4488	4492	4501	1264
25°	4079	4084	4088	4099	4107	1879
35°	3551	3547	3560	3574	3588	2221
45°	2935	2934	2948	2962	2978	2264
55°	2257	2254	2268	2284	2305	2018
65°	1538	1532	1543	1556	1572	1521
75°	804	797	800	804	819	852
85°	180	176	178	176	178	217
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4709.6	4709.6	4709.6	4709.6	4709.6
2.5°	4701.8	4709.6	4699.9	4701.8	4710.6
5°	4679.4	4688.2	4683.3	4684.3	4689.2
7.5°	4648.2	4659.9	4653.1	4655.0	4659.9
10°	4611.1	4619.9	4612.1	4617.0	4625.8
12.5°	4558.5	4562.4	4558.5	4560.4	4570.2
15°	4485.4	4490.2	4488.3	4492.2	4501.0
17.5°	4399.6	4405.4	4404.4	4412.2	4419.1
20°	4306.9	4307.9	4311.8	4319.6	4327.4
22.5°	4197.7	4200.6	4204.5	4215.3	4223.1
25°	4078.8	4083.6	4088.5	4099.2	4107.0
27.5°	3953.0	3957.8	3964.7	3976.4	3989.0
30°	3824.3	3824.3	3836.9	3848.6	3860.3
32.5°	3694.6	3689.7	3701.4	3716.0	3744.3
35°	3551.2	3547.3	3560.0	3573.7	3588.3
37.5°	3402.1	3399.1	3413.8	3428.4	3442.0
40°	3250.9	3247.0	3261.6	3276.3	3290.9
42.5°	3095.9	3093.9	3107.6	3122.2	3137.8
45°	2935.0	2934.0	2947.7	2962.3	2977.9
47.5°	2771.2	2769.2	2782.9	2798.5	2812.1
50°	2603.5	2601.5	2615.2	2630.8	2645.4
52.5°	2430.9	2430.9	2443.5	2457.2	2479.6
55°	2257.3	2254.4	2268.0	2283.6	2305.1
57.5°	2081.8	2077.9	2090.6	2106.2	2125.7
60°	1902.4	1898.5	1910.2	1925.8	1953.1
62.5°	1721.0	1715.2	1726.9	1741.5	1758.1
65°	1537.7	1531.8	1542.6	1556.2	1571.8
67.5°	1353.4	1346.6	1357.3	1369.0	1383.6
70°	1168.1	1161.3	1169.1	1180.8	1194.5
72.5°	983.9	977.0	983.9	988.7	1005.3
75°	803.5	796.6	800.5	804.4	819.1
77.5°	628.0	621.1	628.9	630.9	639.7
80°	463.2	456.3	461.2	462.2	469.0
82.5°	313.0	307.1	314.0	309.1	315.0
85°	180.4	175.5	177.5	175.5	178.4
87.5°	71.2	67.3	68.3	64.4	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)