

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: P835670

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835670
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-LD4-5STD-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

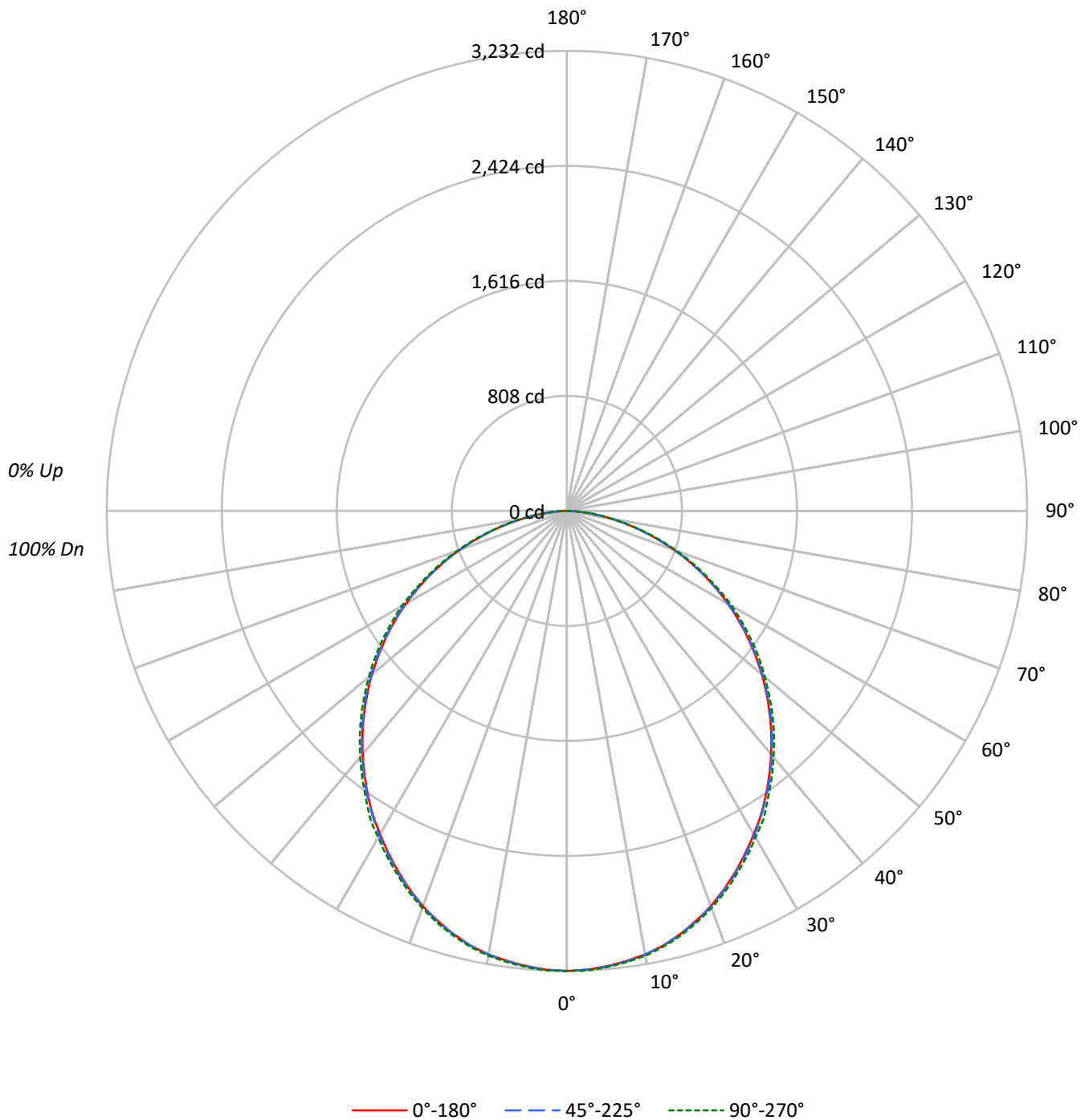
Lumens per Lamp: N/A
Luminaire Lumens: 8732.8 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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

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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8697	8697	8697
5°	8674	8681	8692
10°	8646	8648	8674
15°	8575	8580	8605
20°	8464	8473	8504
25°	8310	8330	8368
30°	8154	8181	8231
35°	8005	8025	8089
40°	7836	7862	7933
45°	7665	7698	7777
50°	7479	7513	7600
55°	7267	7302	7421
60°	7026	7055	7213
65°	6719	6740	6868
70°	6307	6312	6449
75°	5733	5711	5844
80°	4925	4905	4987
85°	3822	3761	3779

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	3.5
10°-20°	868.7	9.9
20°-30°	1293.2	14.8
30°-40°	1529.4	17.5
40°-50°	1561.3	17.9
50°-60°	1393.4	16.0
60°-70°	1049.5	12.0
70°-80°	585.3	6.7
80°-90°	146.6	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°	2467.3	28.3
0°-40°	3996.7	45.8
0°-60°	6951.4	79.6
0°-90°	8732.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8732.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3232	3232	3232	3232	3232	
5°	3211	3217	3214	3214	3218	305
15°	3078	3081	3080	3083	3089	868
25°	2799	2802	2806	2813	2818	1289
35°	2437	2434	2443	2452	2462	1524
45°	2014	2013	2023	2033	2044	1554
55°	1549	1547	1556	1567	1582	1385
65°	1055	1051	1058	1068	1079	1044
75°	551	547	549	552	562	584
85°	124	120	122	120	122	149
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3231.8	3231.8	3231.8	3231.8	3231.8
2.5°	3226.5	3231.8	3225.1	3226.5	3232.5
5°	3211.1	3217.1	3213.8	3214.4	3217.8
7.5°	3189.7	3197.7	3193.0	3194.4	3197.7
10°	3164.2	3170.3	3164.9	3168.3	3174.3
12.5°	3128.1	3130.8	3128.1	3129.4	3136.1
15°	3077.9	3081.3	3079.9	3082.6	3088.6
17.5°	3019.0	3023.1	3022.4	3027.7	3032.4
20°	2955.5	2956.1	2958.8	2964.2	2969.5
22.5°	2880.5	2882.5	2885.2	2892.6	2897.9
25°	2798.9	2802.3	2805.6	2813.0	2818.3
27.5°	2712.6	2715.9	2720.6	2728.6	2737.3
30°	2624.3	2624.3	2633.0	2641.0	2649.0
32.5°	2535.3	2531.9	2540.0	2550.0	2569.4
35°	2436.9	2434.2	2442.9	2452.3	2462.3
37.5°	2334.5	2332.5	2342.6	2352.6	2362.0
40°	2230.8	2228.2	2238.2	2248.2	2258.3
42.5°	2124.4	2123.1	2132.5	2142.5	2153.2
45°	2014.0	2013.4	2022.7	2032.8	2043.5
47.5°	1901.6	1900.3	1909.7	1920.4	1929.7
50°	1786.5	1785.2	1794.6	1805.3	1815.3
52.5°	1668.1	1668.1	1676.8	1686.2	1701.6
55°	1549.0	1547.0	1556.4	1567.1	1581.8
57.5°	1428.6	1425.9	1434.6	1445.3	1458.7
60°	1305.4	1302.8	1310.8	1321.5	1340.2
62.5°	1181.0	1177.0	1185.0	1195.0	1206.4
65°	1055.2	1051.2	1058.5	1067.9	1078.6
67.5°	928.7	924.0	931.4	939.4	949.5
70°	801.6	796.9	802.3	810.3	819.7
72.5°	675.1	670.5	675.1	678.5	689.9
75°	551.4	546.7	549.3	552.0	562.1
77.5°	430.9	426.2	431.6	432.9	438.9
80°	317.8	313.1	316.5	317.2	321.8
82.5°	214.8	210.8	215.5	212.1	216.1
85°	123.8	120.4	121.8	120.4	122.4
87.5°	48.8	46.2	46.8	44.2	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)