

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: P835763

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835763
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-LD4-6STD-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

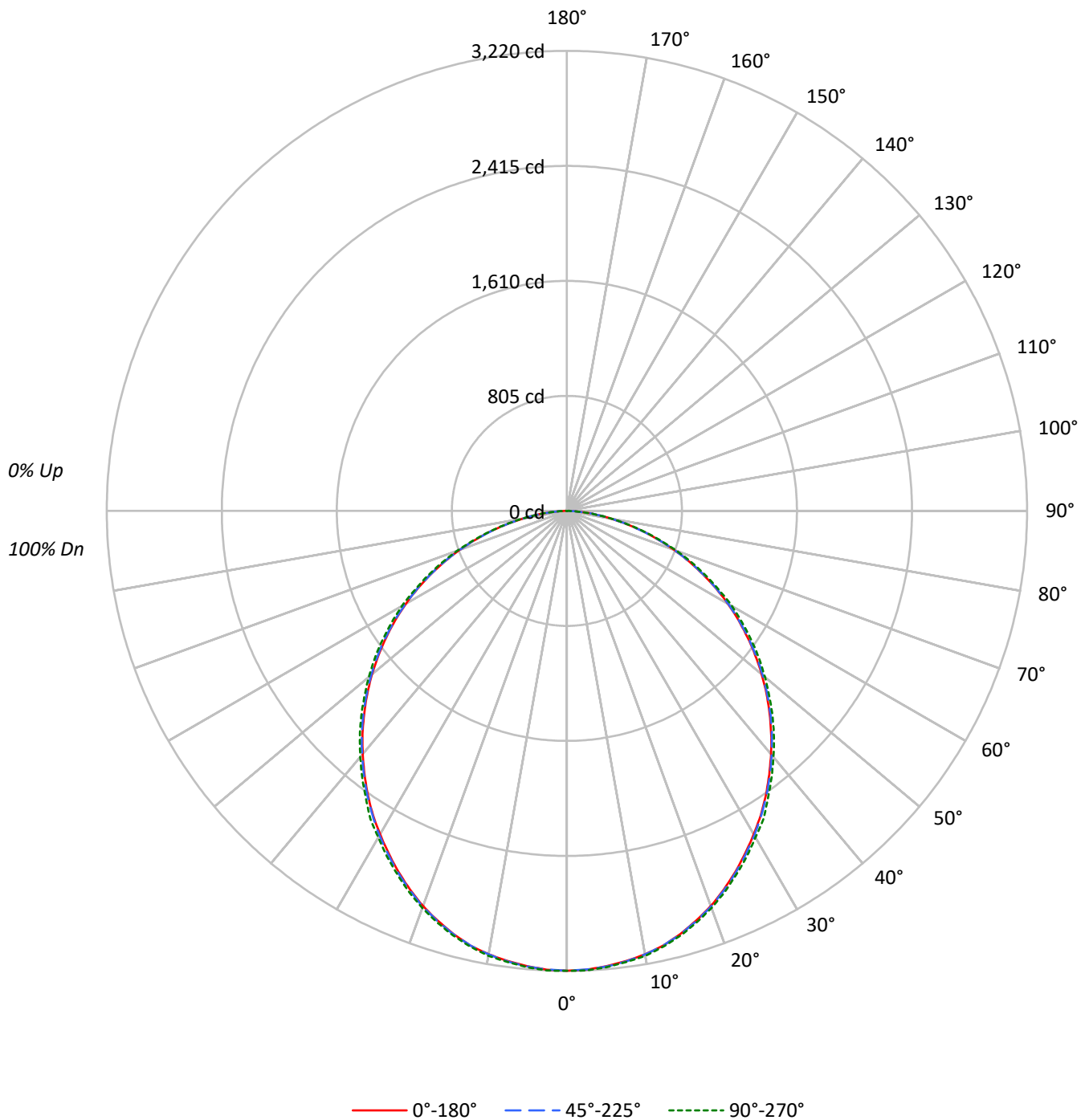
Lumens per Lamp: N/A
Luminaire Lumens: 8698.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8662	8662	8662
5°	8640	8647	8658
10°	8612	8614	8639
15°	8541	8546	8571
20°	8430	8440	8470
25°	8277	8297	8335
30°	8122	8149	8199
35°	7974	7994	8057
40°	7805	7831	7901
45°	7634	7667	7746
50°	7450	7483	7569
55°	7239	7273	7392
60°	6998	7027	7184
65°	6692	6714	6840
70°	6282	6287	6423
75°	5710	5689	5820
80°	4906	4885	4968
85°	3807	3745	3767

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	3.5
10°-20°	865.3	9.9
20°-30°	1288.1	14.8
30°-40°	1523.3	17.5
40°-50°	1555.1	17.9
50°-60°	1387.9	16.0
60°-70°	1045.3	12.0
70°-80°	583.0	6.7
80°-90°	146.1	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°	2457.6	28.3
0°-40°	3980.9	45.8
0°-60°	6923.9	79.6
0°-90°	8698.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8698.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3219	3219	3219	3219	3219	
5°	3198	3204	3201	3202	3205	304
15°	3066	3069	3068	3070	3076	864
25°	2788	2791	2794	2802	2807	1284
35°	2427	2425	2433	2443	2453	1518
45°	2006	2005	2015	2025	2035	1547
55°	1543	1541	1550	1561	1576	1379
65°	1051	1047	1054	1064	1074	1040
75°	549	544	547	550	560	582
85°	123	120	121	120	122	148
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3219.0	3219.0	3219.0	3219.0	3219.0
2.5°	3213.7	3219.0	3212.4	3213.7	3219.7
5°	3198.4	3204.4	3201.0	3201.7	3205.0
7.5°	3177.0	3185.0	3180.4	3181.7	3185.0
10°	3151.7	3157.7	3152.4	3155.7	3161.7
12.5°	3115.7	3118.4	3115.7	3117.1	3123.7
15°	3065.7	3069.1	3067.7	3070.4	3076.4
17.5°	3007.1	3011.1	3010.4	3015.8	3020.4
20°	2943.8	2944.5	2947.1	2952.5	2957.8
22.5°	2869.1	2871.1	2873.8	2881.1	2886.5
25°	2787.8	2791.2	2794.5	2801.8	2807.2
27.5°	2701.9	2705.2	2709.9	2717.9	2726.5
30°	2613.9	2613.9	2622.5	2630.5	2638.5
32.5°	2525.2	2521.9	2529.9	2539.9	2559.2
35°	2427.3	2424.6	2433.3	2442.6	2452.6
37.5°	2325.3	2323.3	2333.3	2343.3	2352.6
40°	2222.0	2219.3	2229.3	2239.3	2249.3
42.5°	2116.0	2114.7	2124.0	2134.0	2144.7
45°	2006.1	2005.4	2014.7	2024.7	2035.4
47.5°	1894.1	1892.8	1902.1	1912.8	1922.1
50°	1779.5	1778.1	1787.5	1798.1	1808.1
52.5°	1661.5	1661.5	1670.2	1679.5	1694.8
55°	1542.9	1540.9	1550.2	1560.9	1575.5
57.5°	1422.9	1420.2	1428.9	1439.6	1452.9
60°	1300.3	1297.6	1305.6	1316.3	1334.9
62.5°	1176.3	1172.3	1180.3	1190.3	1201.6
65°	1051.0	1047.0	1054.4	1063.7	1074.3
67.5°	925.1	920.4	927.7	935.7	945.7
70°	798.4	793.8	799.1	807.1	816.4
72.5°	672.5	667.8	672.5	675.8	687.1
75°	549.2	544.5	547.2	549.8	559.8
77.5°	429.2	424.5	429.9	431.2	437.2
80°	316.6	311.9	315.2	315.9	320.6
82.5°	213.9	209.9	214.6	211.3	215.3
85°	123.3	120.0	121.3	120.0	122.0
87.5°	48.7	46.0	46.7	44.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)