

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P835031

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835031
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

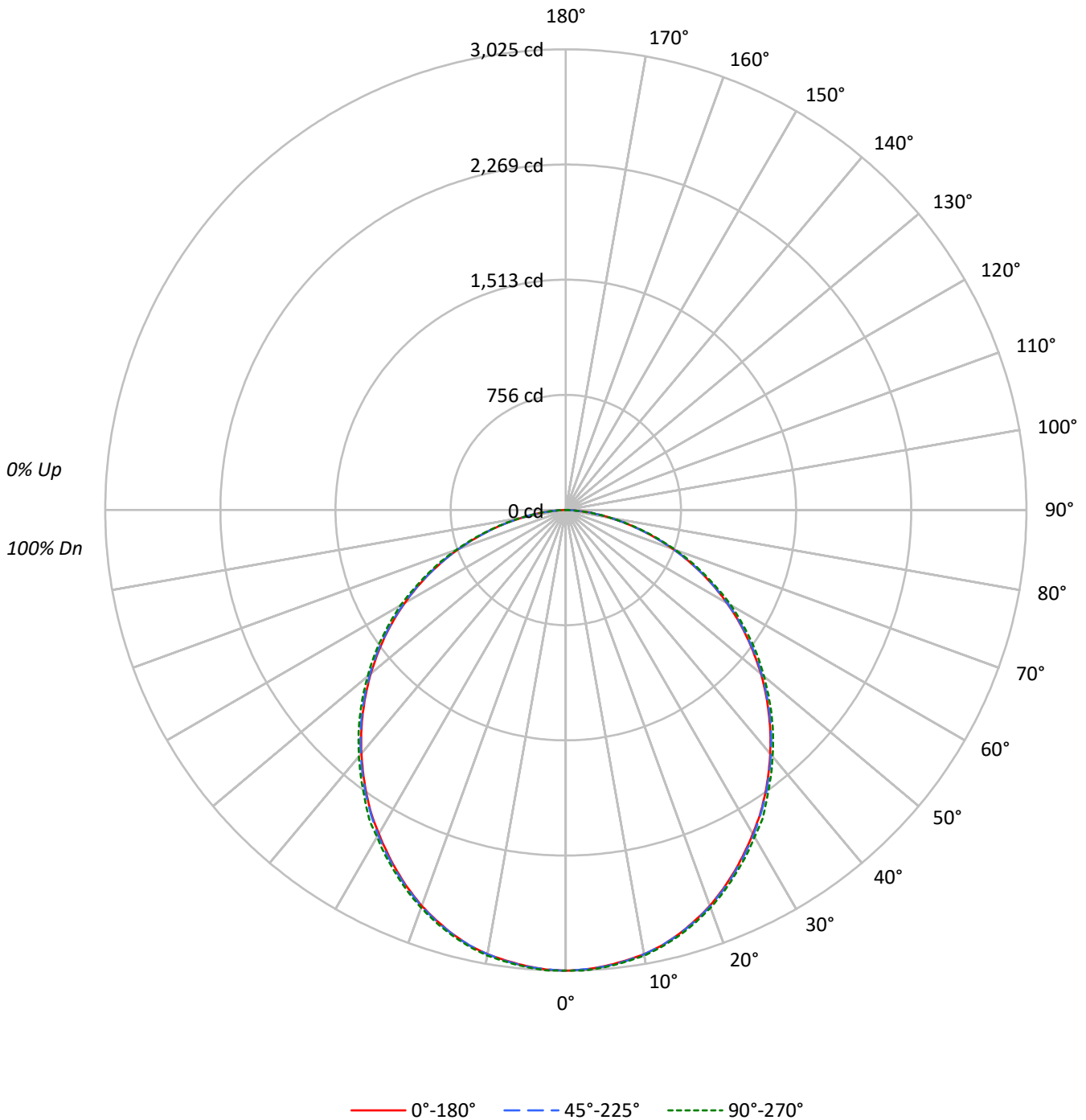
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8172.8 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

TEST NUMBER: P835031
CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P835031

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4070	4070	4070
5°	4059	4062	4067
10°	4046	4047	4059
15°	4013	4015	4026
20°	3960	3965	3979
25°	3889	3898	3916
30°	3816	3828	3852
35°	3746	3755	3785
40°	3667	3679	3712
45°	3587	3602	3639
50°	3500	3516	3556
55°	3401	3417	3473
60°	3288	3301	3375
65°	3144	3154	3214
70°	2951	2954	3018
75°	2682	2673	2734
80°	2305	2295	2334
85°	1788	1760	1769



TEST NUMBER: P835031
 CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	3.5
10°-20°	813.0	9.9
20°-30°	1210.3	14.8
30°-40°	1431.3	17.5
40°-50°	1461.2	17.9
50°-60°	1304.0	16.0
60°-70°	982.2	12.0
70°-80°	547.7	6.7
80°-90°	137.2	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°	2309.1	28.3
0°-40°	3740.5	45.8
0°-60°	6505.7	79.6
0°-90°	8172.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8172.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3025	3025	3025	3025	3025	
5°	3005	3011	3008	3008	3012	285
15°	2881	2884	2882	2885	2891	812
25°	2619	2623	2626	2633	2638	1207
35°	2281	2278	2286	2295	2304	1426
45°	1885	1884	1893	1902	1912	1454
55°	1450	1448	1457	1467	1480	1296
65°	988	984	991	999	1010	977
75°	516	512	514	517	526	547
85°	116	113	114	113	115	139
90°	0	0	0	0	0	



TEST NUMBER: P835031

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-2STD-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3024.6	3024.6	3024.6	3024.6	3024.6
2.5°	3019.6	3024.6	3018.3	3019.6	3025.2
5°	3005.2	3010.8	3007.7	3008.3	3011.5
7.5°	2985.2	2992.7	2988.3	2989.5	2992.7
10°	2961.4	2967.0	2962.0	2965.1	2970.8
12.5°	2927.5	2930.0	2927.5	2928.8	2935.1
15°	2880.6	2883.7	2882.5	2885.0	2890.6
17.5°	2825.5	2829.2	2828.6	2833.6	2838.0
20°	2766.0	2766.6	2769.1	2774.1	2779.1
22.5°	2695.8	2697.7	2700.2	2707.1	2712.1
25°	2619.4	2622.6	2625.7	2632.6	2637.6
27.5°	2538.7	2541.8	2546.2	2553.7	2561.8
30°	2456.0	2456.0	2464.1	2471.7	2479.2
32.5°	2372.7	2369.6	2377.1	2386.5	2404.7
35°	2280.7	2278.2	2286.3	2295.1	2304.5
37.5°	2184.9	2183.0	2192.4	2201.8	2210.5
40°	2087.8	2085.3	2094.7	2104.1	2113.5
42.5°	1988.2	1987.0	1995.7	2005.1	2015.2
45°	1884.9	1884.3	1893.0	1902.4	1912.5
47.5°	1779.7	1778.4	1787.2	1797.2	1806.0
50°	1672.0	1670.7	1679.5	1689.5	1698.9
52.5°	1561.1	1561.1	1569.3	1578.1	1592.5
55°	1449.7	1447.8	1456.6	1466.6	1480.4
57.5°	1337.0	1334.5	1342.6	1352.6	1365.1
60°	1221.7	1219.2	1226.8	1236.8	1254.3
62.5°	1105.3	1101.5	1109.0	1118.4	1129.1
65°	987.5	983.8	990.7	999.4	1009.5
67.5°	869.2	864.8	871.7	879.2	888.6
70°	750.2	745.8	750.8	758.3	767.1
72.5°	631.8	627.5	631.8	635.0	645.6
75°	516.0	511.6	514.1	516.6	526.0
77.5°	403.3	398.9	403.9	405.2	410.8
80°	297.5	293.1	296.2	296.8	301.2
82.5°	201.0	197.3	201.6	198.5	202.3
85°	115.8	112.7	114.0	112.7	114.6
87.5°	45.7	43.2	43.8	41.3	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)