

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: P835055

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835055
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-LD4-4STD-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

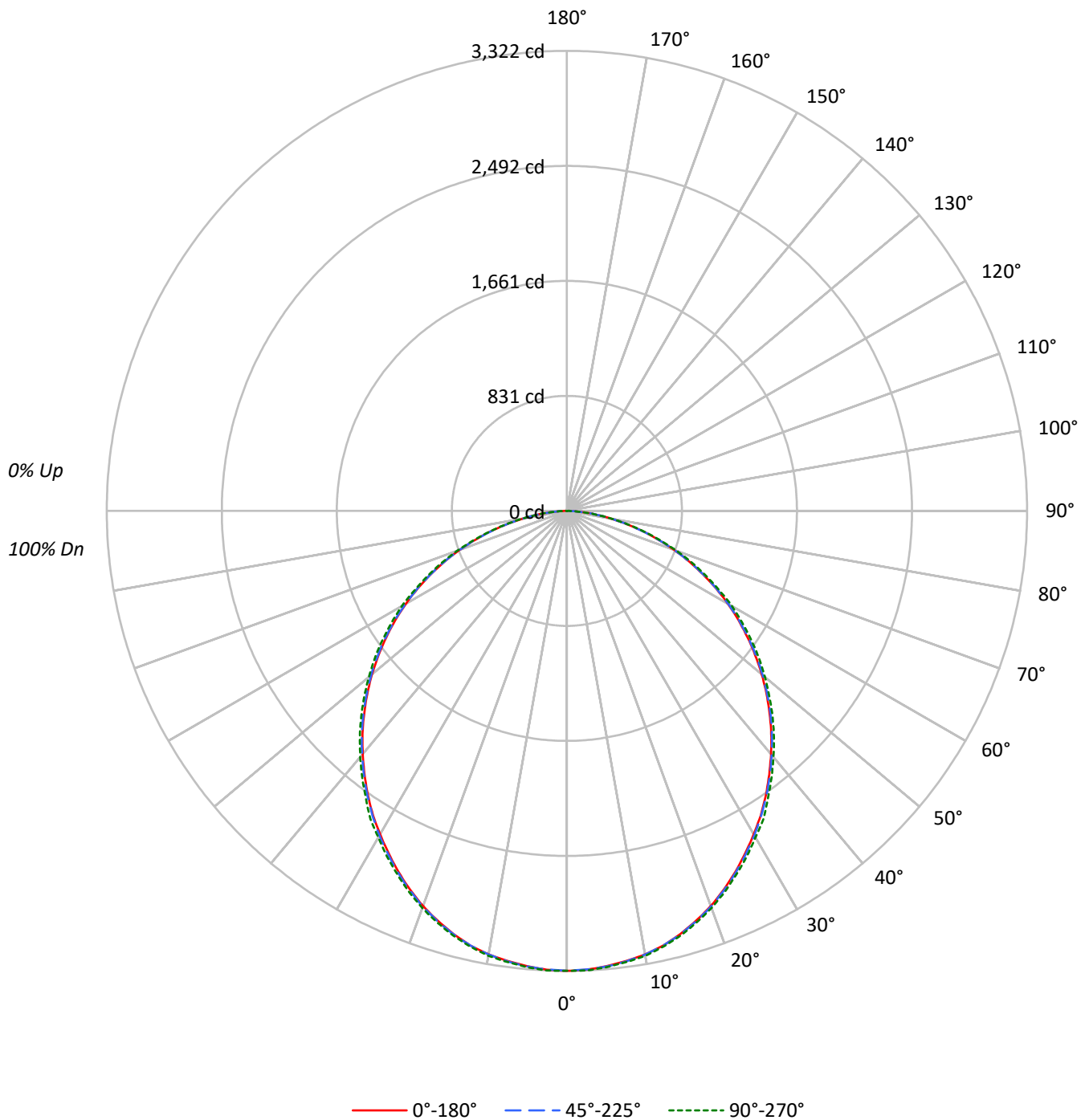
Lumens per Lamp: N/A
Luminaire Lumens: 8974.1 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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

TEST NUMBER: P835055

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-20-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835055

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-20-120-EDD-90

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4469	4469	4469
5°	4457	4461	4466
10°	4443	4444	4457
15°	4406	4409	4421
20°	4349	4354	4369
25°	4270	4280	4300
30°	4190	4204	4229
35°	4113	4123	4156
40°	4027	4040	4076
45°	3938	3955	3996
50°	3843	3860	3905
55°	3734	3752	3813
60°	3610	3625	3706
65°	3452	3463	3529
70°	3241	3243	3314
75°	2946	2935	3003
80°	2531	2520	2562
85°	1964	1931	1942

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835055

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	3.5
10°-20°	892.7	9.9
20°-30°	1329.0	14.8
30°-40°	1571.7	17.5
40°-50°	1604.4	17.9
50°-60°	1431.9	16.0
60°-70°	1078.5	12.0
70°-80°	601.4	6.7
80°-90°	150.7	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°	2535.5	28.3
0°-40°	4107.2	45.8
0°-60°	7143.5	79.6
0°-90°	8974.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8974.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3321	3321	3321	3321	3321	
5°	3300	3306	3303	3303	3307	313
15°	3163	3166	3165	3168	3174	892
25°	2876	2880	2883	2891	2896	1325
35°	2504	2502	2510	2520	2530	1566
45°	2070	2069	2079	2089	2100	1597
55°	1592	1590	1599	1610	1626	1423
65°	1084	1080	1088	1097	1108	1072
75°	567	562	564	567	578	601
85°	127	124	125	124	126	153
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835055

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3321.1	3321.1	3321.1	3321.1	3321.1
2.5°	3315.6	3321.1	3314.3	3315.6	3321.8
5°	3299.8	3306.0	3302.6	3303.3	3306.7
7.5°	3277.8	3286.1	3281.3	3282.6	3286.1
10°	3251.7	3257.9	3252.4	3255.8	3262.0
12.5°	3214.6	3217.3	3214.6	3215.9	3222.8
15°	3163.0	3166.4	3165.0	3167.8	3174.0
17.5°	3102.5	3106.6	3105.9	3111.4	3116.2
20°	3037.2	3037.8	3040.6	3046.1	3051.6
22.5°	2960.1	2962.2	2965.0	2972.5	2978.0
25°	2876.3	2879.7	2883.1	2890.7	2896.2
27.5°	2787.6	2791.0	2795.8	2804.1	2813.0
30°	2696.8	2696.8	2705.7	2714.0	2722.2
32.5°	2605.3	2601.9	2610.2	2620.5	2640.4
35°	2504.3	2501.5	2510.4	2520.1	2530.4
37.5°	2399.1	2397.0	2407.3	2417.6	2427.2
40°	2292.5	2289.7	2300.0	2310.4	2320.7
42.5°	2183.1	2181.8	2191.4	2201.7	2212.7
45°	2069.7	2069.0	2078.6	2088.9	2099.9
47.5°	1954.2	1952.8	1962.4	1973.4	1983.1
50°	1835.9	1834.5	1844.2	1855.2	1865.5
52.5°	1714.2	1714.2	1723.1	1732.8	1748.6
55°	1591.8	1589.7	1599.4	1610.4	1625.5
57.5°	1468.0	1465.3	1474.2	1485.2	1499.0
60°	1341.5	1338.8	1347.0	1358.0	1377.3
62.5°	1213.6	1209.5	1217.7	1228.1	1239.8
65°	1084.4	1080.2	1087.8	1097.4	1108.4
67.5°	954.4	949.6	957.1	965.4	975.7
70°	823.8	818.9	824.4	832.7	842.3
72.5°	693.8	689.0	693.8	697.2	708.9
75°	566.6	561.8	564.5	567.3	577.6
77.5°	442.8	438.0	443.5	444.9	451.1
80°	326.6	321.8	325.2	325.9	330.7
82.5°	220.7	216.6	221.4	218.0	222.1
85°	127.2	123.8	125.1	123.8	125.8
87.5°	50.2	47.4	48.1	45.4	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)