

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: P835635

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835635
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-LD4-5HI-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

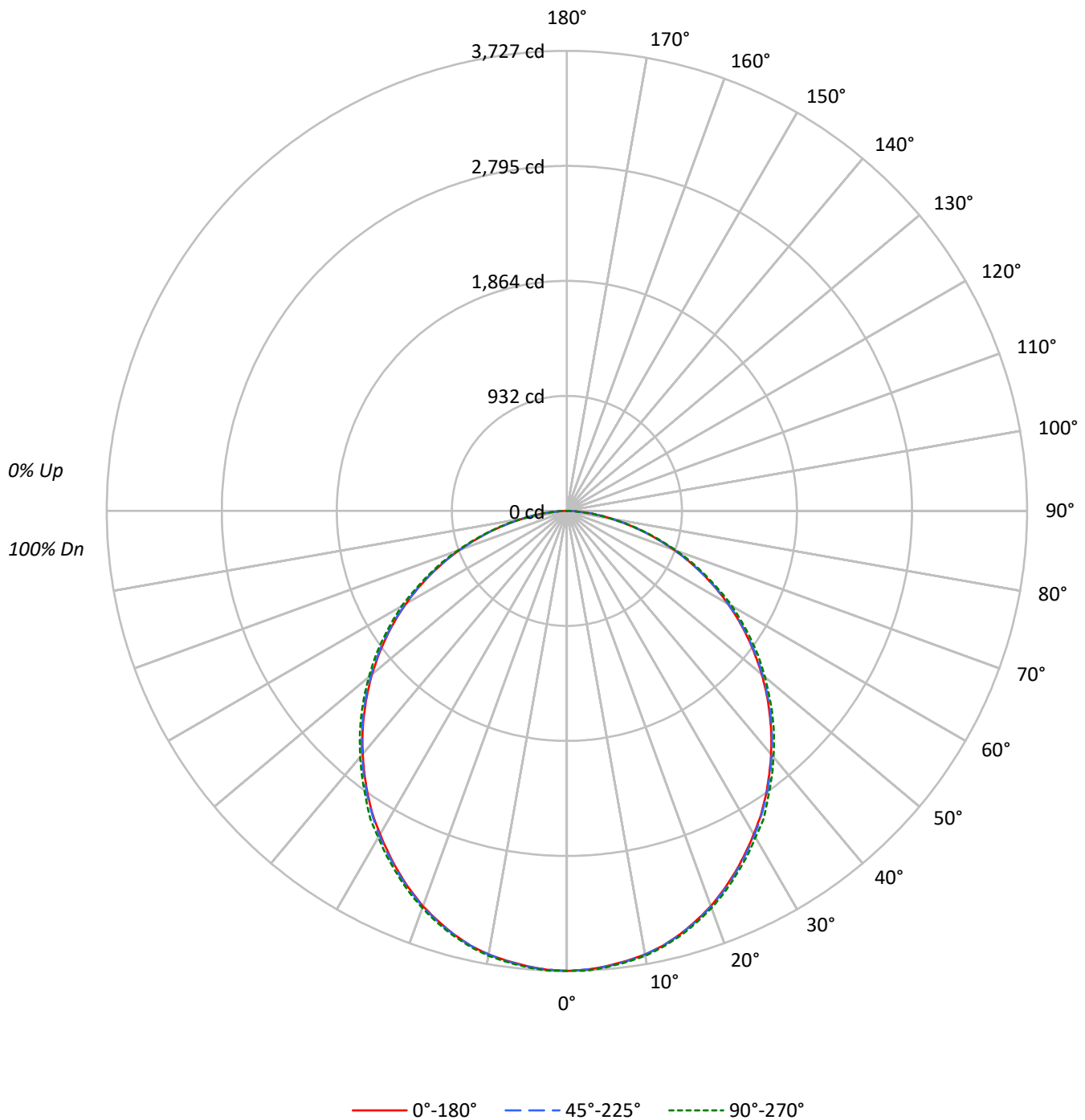
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10069.0 lumens
Efficiency: N/A
Efficacy: 91.5 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): 110
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: P835635
CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835635

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD

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	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10028	10028	10028
5°	10001	10010	10022
10°	9969	9971	10001
15°	9887	9893	9921
20°	9759	9770	9805
25°	9582	9605	9649
30°	9402	9433	9491
35°	9230	9253	9327
40°	9036	9066	9147
45°	8837	8876	8967
50°	8624	8663	8763
55°	8379	8419	8557
60°	8101	8134	8317
65°	7747	7771	7919
70°	7272	7278	7436
75°	6609	6586	6738
80°	5680	5655	5751
85°	4406	4335	4360

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835635

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.1	3.5
10°-20°	1001.6	9.9
20°-30°	1491.1	14.8
30°-40°	1763.4	17.5
40°-50°	1800.2	17.9
50°-60°	1606.6	16.0
60°-70°	1210.1	12.0
70°-80°	674.8	6.7
80°-90°	169.1	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°	2844.9	28.3
0°-40°	4608.3	45.8
0°-60°	8015.1	79.6
0°-90°	10069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3726	3726	3726	3726	3726	
5°	3702	3709	3706	3706	3710	352
15°	3549	3553	3551	3554	3561	1000
25°	3227	3231	3235	3243	3250	1487
35°	2810	2807	2817	2828	2839	1757
45°	2322	2321	2332	2344	2356	1791
55°	1786	1784	1794	1807	1824	1596
65°	1217	1212	1220	1231	1244	1203
75°	636	630	633	636	648	674
85°	143	139	140	139	141	171
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835635

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-5HI-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3726.4	3726.4	3726.4	3726.4	3726.4
2.5°	3720.2	3726.4	3718.6	3720.2	3727.1
5°	3702.4	3709.4	3705.5	3706.3	3710.2
7.5°	3677.8	3687.0	3681.6	3683.2	3687.0
10°	3648.4	3655.4	3649.2	3653.1	3660.0
12.5°	3606.8	3609.9	3606.8	3608.3	3616.0
15°	3548.9	3552.8	3551.2	3554.3	3561.3
17.5°	3481.0	3485.6	3484.9	3491.0	3496.4
20°	3407.7	3408.5	3411.6	3417.8	3423.9
22.5°	3321.3	3323.6	3326.7	3335.2	3341.4
25°	3227.2	3231.1	3234.9	3243.4	3249.6
27.5°	3127.7	3131.5	3136.9	3146.2	3156.2
30°	3025.8	3025.8	3035.9	3045.1	3054.4
32.5°	2923.2	2919.4	2928.6	2940.2	2962.6
35°	2809.8	2806.7	2816.8	2827.6	2839.1
37.5°	2691.8	2689.5	2701.0	2712.6	2723.4
40°	2572.2	2569.1	2580.7	2592.2	2603.8
42.5°	2449.5	2448.0	2458.8	2470.3	2482.7
45°	2322.2	2321.4	2332.3	2343.8	2356.2
47.5°	2192.6	2191.1	2201.9	2214.2	2225.0
50°	2059.9	2058.4	2069.2	2081.5	2093.1
52.5°	1923.4	1923.4	1933.4	1944.2	1961.9
55°	1786.0	1783.7	1794.5	1806.9	1823.8
57.5°	1647.2	1644.1	1654.1	1666.4	1681.9
60°	1505.2	1502.1	1511.4	1523.7	1545.3
62.5°	1361.7	1357.1	1366.3	1377.9	1391.0
65°	1216.7	1212.0	1220.5	1231.3	1243.7
67.5°	1070.8	1065.4	1073.9	1083.2	1094.8
70°	924.3	918.9	925.0	934.3	945.1
72.5°	778.4	773.0	778.4	782.3	795.4
75°	635.7	630.3	633.4	636.5	648.1
77.5°	496.8	491.4	497.6	499.2	506.1
80°	366.5	361.1	364.9	365.7	371.1
82.5°	247.7	243.0	248.4	244.6	249.2
85°	142.7	138.9	140.4	138.9	141.2
87.5°	56.3	53.2	54.0	50.9	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)