

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: P835637

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835637
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-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

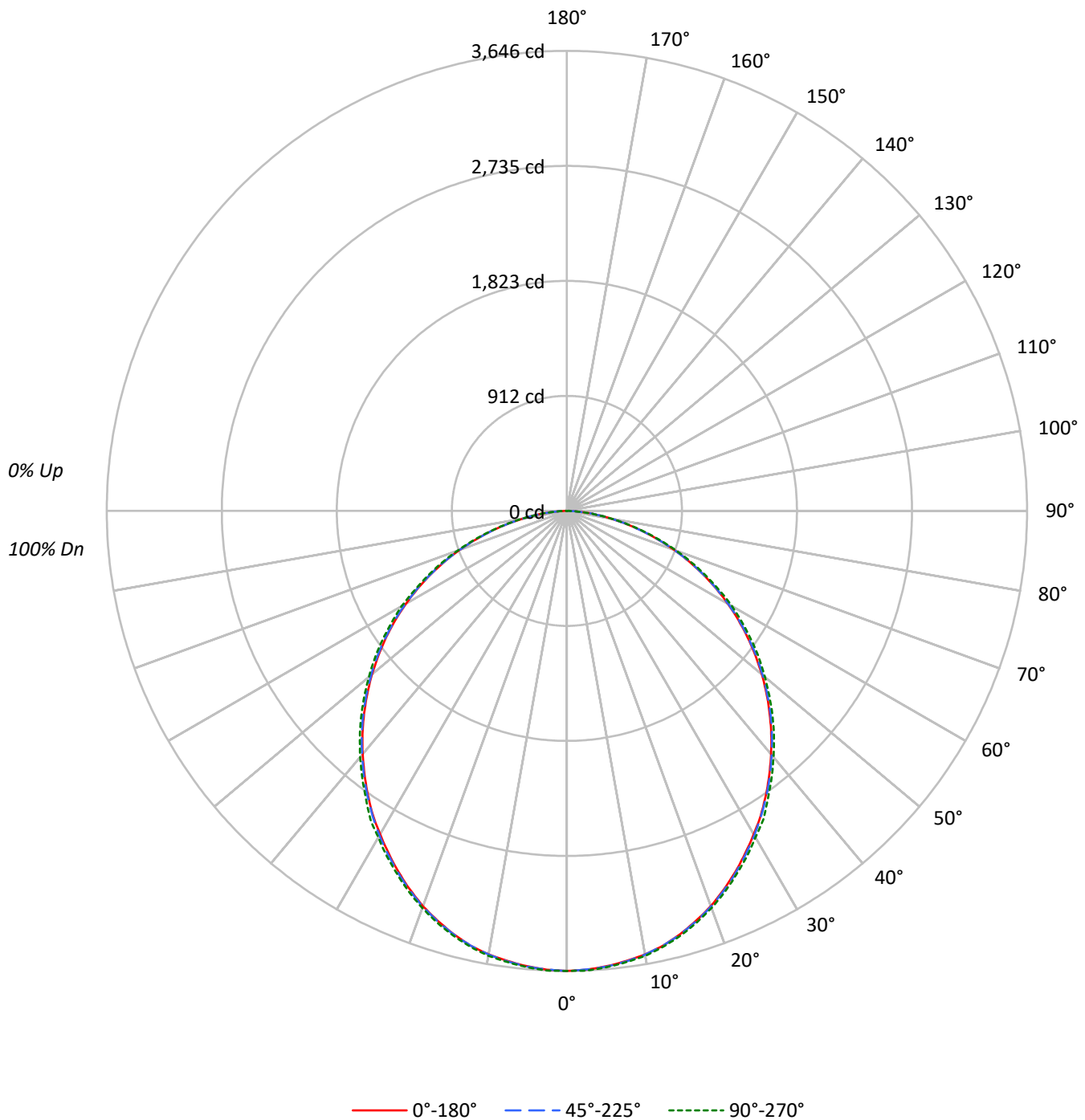
Lumens per Lamp: N/A
Luminaire Lumens: 9851.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P835637

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-30-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835637

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9811	9811	9811
5°	9785	9793	9805
10°	9753	9756	9784
15°	9673	9679	9706
20°	9547	9558	9593
25°	9375	9397	9440
30°	9198	9229	9285
35°	9031	9053	9125
40°	8840	8869	8949
45°	8646	8683	8772
50°	8437	8475	8573
55°	8198	8237	8371
60°	7925	7958	8137
65°	7579	7603	7747
70°	7114	7120	7275
75°	6467	6443	6592
80°	5556	5532	5627
85°	4310	4242	4264

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835637

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	3.5
10°-20°	979.9	9.9
20°-30°	1458.8	14.8
30°-40°	1725.2	17.5
40°-50°	1761.2	17.9
50°-60°	1571.8	16.0
60°-70°	1183.9	12.0
70°-80°	660.2	6.7
80°-90°	165.4	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°	2783.3	28.3
0°-40°	4508.5	45.8
0°-60°	7841.5	79.6
0°-90°	9851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3646	3646	3646	3646	3646	
5°	3622	3629	3625	3626	3630	344
15°	3472	3476	3474	3477	3484	979
25°	3157	3161	3165	3173	3179	1455
35°	2749	2746	2756	2766	2778	1719
45°	2272	2271	2282	2293	2305	1753
55°	1747	1745	1756	1768	1784	1562
65°	1190	1186	1194	1205	1217	1177
75°	622	617	620	623	634	659
85°	140	136	137	136	138	168
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835637

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3639.6	3645.7	3638.1	3639.6	3646.4
5°	3622.3	3629.1	3625.3	3626.0	3629.8
7.5°	3598.1	3607.2	3601.9	3603.4	3607.2
10°	3569.4	3576.2	3570.2	3574.0	3580.7
12.5°	3528.7	3531.7	3528.7	3530.2	3537.7
15°	3472.1	3475.8	3474.3	3477.3	3484.1
17.5°	3405.6	3410.2	3409.4	3415.4	3420.7
20°	3333.9	3334.7	3337.7	3343.7	3349.8
22.5°	3249.4	3251.7	3254.7	3263.0	3269.0
25°	3157.3	3161.1	3164.9	3173.2	3179.2
27.5°	3059.9	3063.7	3069.0	3078.1	3087.9
30°	2960.3	2960.3	2970.1	2979.2	2988.2
32.5°	2859.9	2856.1	2865.2	2876.5	2898.4
35°	2749.0	2745.9	2755.8	2766.3	2777.6
37.5°	2633.5	2631.2	2642.5	2653.9	2664.4
40°	2516.5	2513.5	2524.8	2536.1	2547.4
42.5°	2396.5	2395.0	2405.5	2416.9	2428.9
45°	2271.9	2271.2	2281.7	2293.1	2305.1
47.5°	2145.1	2143.6	2154.2	2166.3	2176.8
50°	2015.3	2013.8	2024.4	2036.4	2047.8
52.5°	1881.7	1881.7	1891.5	1902.1	1919.4
55°	1747.3	1745.1	1755.7	1767.7	1784.3
57.5°	1611.5	1608.5	1618.3	1630.4	1645.5
60°	1472.6	1469.6	1478.6	1490.7	1511.9
62.5°	1332.2	1327.7	1336.7	1348.1	1360.9
65°	1190.3	1185.8	1194.1	1204.7	1216.7
67.5°	1047.7	1042.4	1050.7	1059.7	1071.1
70°	904.2	899.0	905.0	914.1	924.6
72.5°	761.6	756.3	761.6	765.4	778.2
75°	622.0	616.7	619.7	622.7	634.0
77.5°	486.1	480.8	486.8	488.4	495.1
80°	358.5	353.2	357.0	357.8	363.1
82.5°	242.3	237.8	243.0	239.3	243.8
85°	139.6	135.9	137.4	135.9	138.1
87.5°	55.1	52.1	52.8	49.8	49.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)