

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: P835619

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835619
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-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

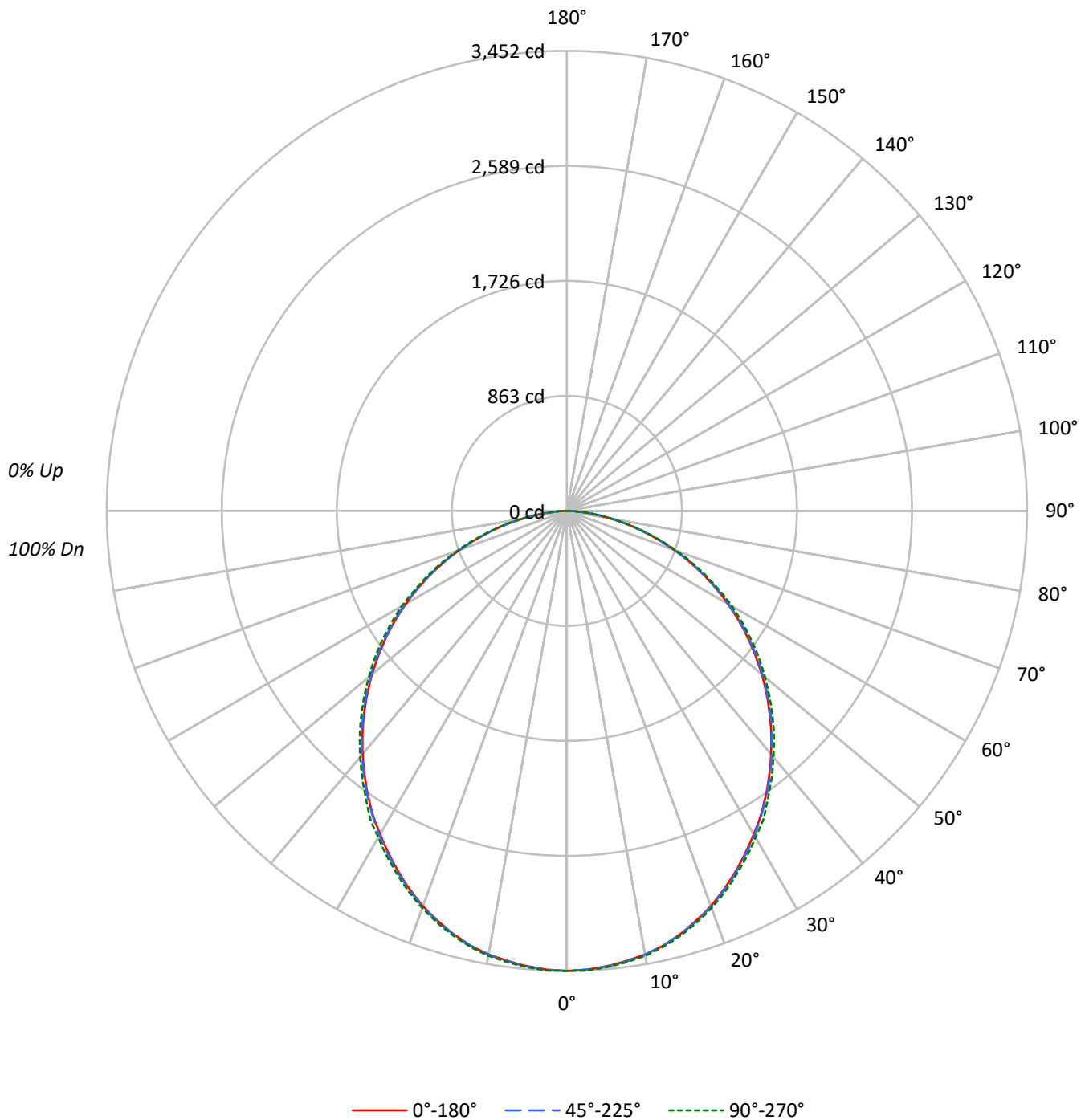
Lumens per Lamp: N/A
Luminaire Lumens: 9327.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P835619

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-27-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835619

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-27-120-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	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°	9288	9288	9288
5°	9264	9272	9283
10°	9235	9237	9264
15°	9158	9164	9190
20°	9039	9050	9082
25°	8876	8897	8937
30°	8709	8738	8791
35°	8550	8571	8639
40°	8370	8397	8473
45°	8186	8222	8306
50°	7988	8024	8117
55°	7762	7799	7926
60°	7504	7535	7704
65°	7176	7199	7335
70°	6736	6742	6888
75°	6123	6100	6241
80°	5261	5238	5326
85°	4082	4017	4039

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835619

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	3.5
10°-20°	927.8	9.9
20°-30°	1381.2	14.8
30°-40°	1633.5	17.5
40°-50°	1667.5	17.9
50°-60°	1488.2	16.0
60°-70°	1120.9	12.0
70°-80°	625.1	6.7
80°-90°	156.6	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°	2635.2	28.3
0°-40°	4268.7	45.8
0°-60°	7424.4	79.6
0°-90°	9327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3452	3452	3452	3452	3452	
5°	3430	3436	3432	3433	3437	326
15°	3287	3291	3290	3292	3299	927
25°	2989	2993	2996	3004	3010	1377
35°	2603	2600	2609	2619	2630	1628
45°	2151	2150	2160	2171	2182	1659
55°	1654	1652	1662	1674	1689	1479
65°	1127	1123	1131	1141	1152	1115
75°	589	584	587	590	600	624
85°	132	129	130	129	131	159
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835619

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3451.7	3451.7	3451.7	3451.7	3451.7
2.5°	3446.0	3451.7	3444.6	3446.0	3452.5
5°	3429.6	3436.0	3432.4	3433.2	3436.7
7.5°	3406.7	3415.3	3410.3	3411.7	3415.3
10°	3379.6	3386.0	3380.3	3383.8	3390.3
12.5°	3341.0	3343.8	3341.0	3342.4	3349.5
15°	3287.4	3290.9	3289.5	3292.4	3298.8
17.5°	3224.5	3228.8	3228.1	3233.8	3238.8
20°	3156.6	3157.3	3160.2	3165.9	3171.6
22.5°	3076.5	3078.7	3081.6	3089.4	3095.1
25°	2989.4	2992.9	2996.5	3004.4	3010.1
27.5°	2897.2	2900.7	2905.7	2914.3	2923.6
30°	2802.8	2802.8	2812.1	2820.7	2829.3
32.5°	2707.8	2704.2	2712.8	2723.5	2744.2
35°	2602.7	2599.9	2609.2	2619.2	2629.9
37.5°	2493.4	2491.3	2502.0	2512.7	2522.7
40°	2382.6	2379.8	2390.5	2401.2	2411.9
42.5°	2269.0	2267.6	2277.6	2288.3	2299.7
45°	2151.1	2150.4	2160.4	2171.1	2182.5
47.5°	2031.0	2029.6	2039.6	2051.0	2061.0
50°	1908.1	1906.7	1916.7	1928.1	1938.8
52.5°	1781.6	1781.6	1790.9	1800.9	1817.3
55°	1654.4	1652.3	1662.3	1673.7	1689.4
57.5°	1525.8	1522.9	1532.2	1543.6	1557.9
60°	1394.3	1391.4	1400.0	1411.4	1431.4
62.5°	1261.3	1257.1	1265.6	1276.4	1288.5
65°	1127.0	1122.7	1130.6	1140.6	1152.0
67.5°	991.9	986.9	994.8	1003.4	1014.1
70°	856.1	851.1	856.9	865.4	875.4
72.5°	721.1	716.1	721.1	724.7	736.8
75°	588.9	583.9	586.7	589.6	600.3
77.5°	460.2	455.2	460.9	462.4	468.8
80°	339.5	334.5	338.0	338.7	343.7
82.5°	229.4	225.1	230.1	226.5	230.8
85°	132.2	128.6	130.1	128.6	130.8
87.5°	52.2	49.3	50.0	47.2	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)