

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: P834413

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834413
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

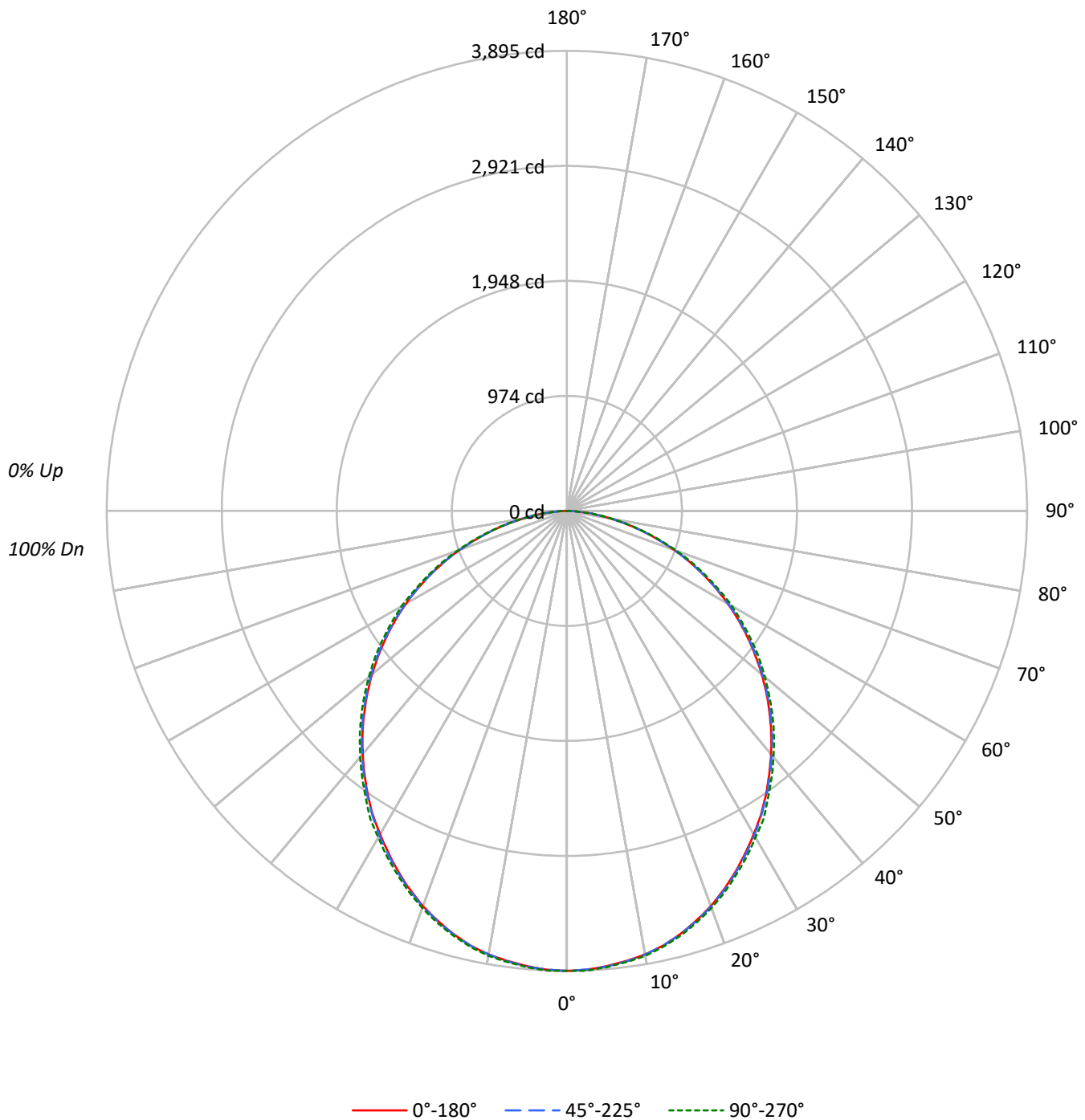
Lumens per Lamp: N/A
Luminaire Lumens: 10522.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P834413

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834413

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3STD-27-120-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		0
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°	10479	10479	10479
5°	10452	10461	10474
10°	10418	10421	10452
15°	10332	10339	10368
20°	10198	10210	10247
25°	10014	10038	10083
30°	9826	9858	9918
35°	9646	9670	9747
40°	9443	9474	9559
45°	9235	9275	9371
50°	9012	9053	9157
55°	8757	8799	8942
60°	8466	8501	8691
65°	8096	8122	8276
70°	7600	7606	7771
75°	6908	6882	7042
80°	5935	5910	6010
85°	4607	4529	4554

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834413

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	3.5
10°-20°	1046.8	9.9
20°-30°	1558.3	14.8
30°-40°	1842.8	17.5
40°-50°	1881.3	17.9
50°-60°	1679.0	16.0
60°-70°	1264.6	12.0
70°-80°	705.2	6.7
80°-90°	176.7	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°	2973.1	28.3
0°-40°	4815.9	45.8
0°-60°	8376.2	79.6
0°-90°	10522.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10522.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3894	3894	3894	3894	3894	
5°	3869	3876	3872	3873	3877	368
15°	3709	3713	3711	3714	3722	1045
25°	3373	3377	3381	3390	3396	1554
35°	2936	2933	2944	2955	2967	1836
45°	2427	2426	2437	2449	2462	1872
55°	1866	1864	1875	1888	1906	1668
65°	1272	1267	1276	1287	1300	1258
75°	664	659	662	665	677	704
85°	149	145	147	145	148	179
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834413

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3894.2	3894.2	3894.2	3894.2	3894.2
2.5°	3887.8	3894.2	3886.2	3887.8	3895.0
5°	3869.2	3876.5	3872.5	3873.3	3877.3
7.5°	3843.4	3853.1	3847.5	3849.1	3853.1
10°	3812.8	3820.0	3813.6	3817.6	3824.9
12.5°	3769.3	3772.5	3769.3	3770.9	3778.9
15°	3708.8	3712.8	3711.2	3714.4	3721.7
17.5°	3637.8	3642.7	3641.9	3648.3	3654.0
20°	3561.2	3562.0	3565.3	3571.7	3578.2
22.5°	3470.9	3473.4	3476.6	3485.5	3491.9
25°	3372.6	3376.6	3380.6	3389.5	3396.0
27.5°	3268.6	3272.6	3278.2	3287.9	3298.4
30°	3162.1	3162.1	3172.6	3182.3	3192.0
32.5°	3054.9	3050.9	3060.6	3072.6	3096.0
35°	2936.4	2933.2	2943.6	2954.9	2967.0
37.5°	2813.0	2810.6	2822.7	2834.8	2846.1
40°	2688.1	2684.8	2696.9	2709.0	2721.1
42.5°	2559.9	2558.3	2569.5	2581.6	2594.5
45°	2426.8	2426.0	2437.3	2449.4	2462.3
47.5°	2291.4	2289.8	2301.1	2314.0	2325.2
50°	2152.7	2151.1	2162.4	2175.3	2187.4
52.5°	2010.0	2010.0	2020.5	2031.8	2050.3
55°	1866.5	1864.1	1875.4	1888.3	1906.0
57.5°	1721.4	1718.1	1728.6	1741.5	1757.6
60°	1573.0	1569.8	1579.5	1592.4	1614.9
62.5°	1423.0	1418.2	1427.9	1440.0	1453.7
65°	1271.5	1266.6	1275.5	1286.8	1299.7
67.5°	1119.1	1113.4	1122.3	1132.0	1144.1
70°	965.9	960.3	966.7	976.4	987.7
72.5°	813.5	807.9	813.5	817.5	831.3
75°	664.4	658.7	661.9	665.2	677.3
77.5°	519.2	513.6	520.0	521.6	528.9
80°	383.0	377.3	381.4	382.2	387.8
82.5°	258.8	254.0	259.6	255.6	260.4
85°	149.2	145.1	146.7	145.1	147.5
87.5°	58.9	55.6	56.4	53.2	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)