

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: P835715

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835715
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-LD4-2STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

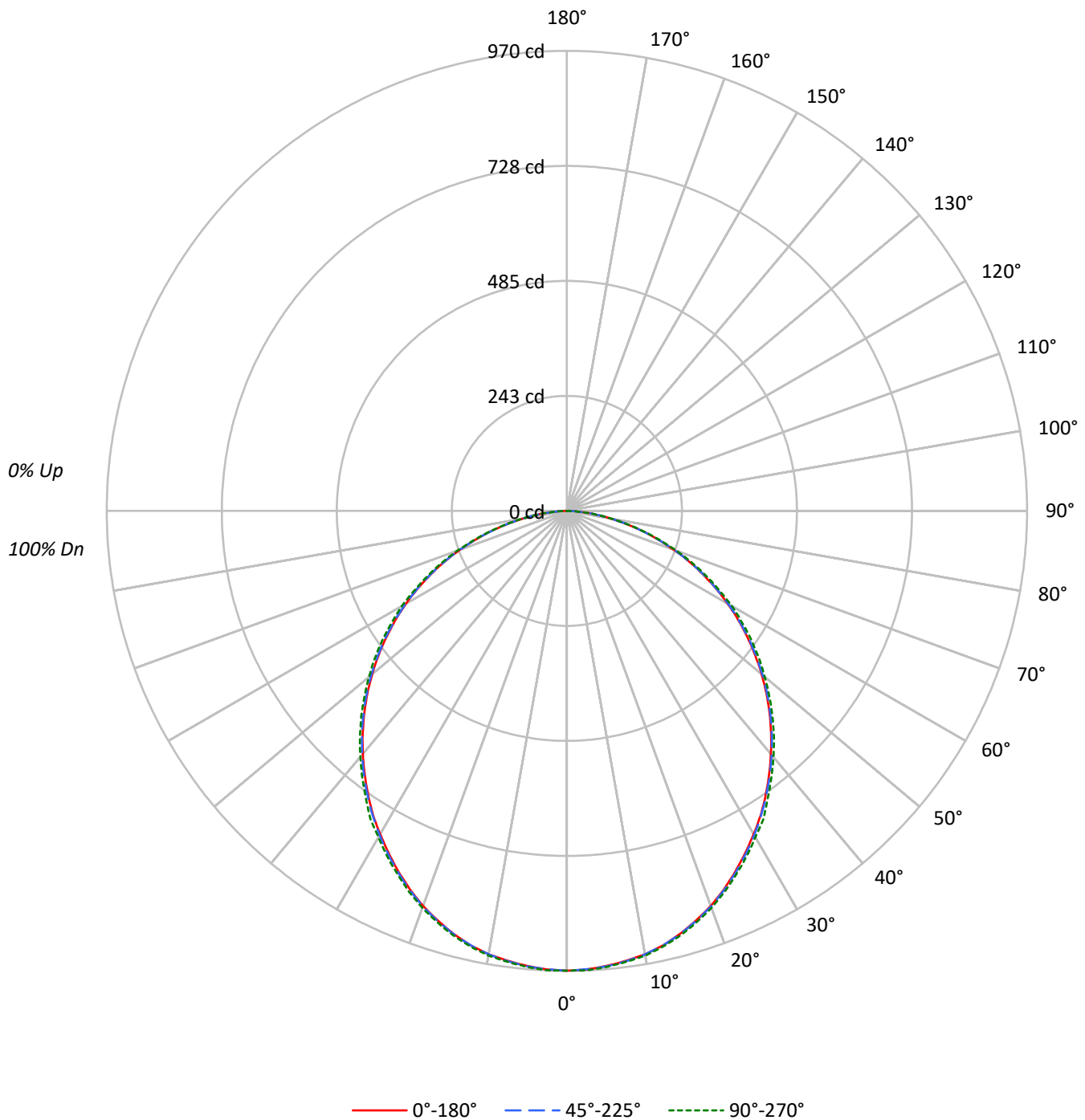
Lumens per Lamp: N/A
Luminaire Lumens: 2619.2 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P835715

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-2STD-27-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835715

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-2STD-27-120-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	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°	2609	2609	2609
5°	2602	2604	2607
10°	2593	2594	2602
15°	2572	2574	2581
20°	2539	2542	2551
25°	2493	2499	2510
30°	2446	2454	2469
35°	2401	2407	2426
40°	2350	2358	2379
45°	2299	2309	2332
50°	2244	2254	2280
55°	2180	2190	2226
60°	2108	2116	2164
65°	2015	2022	2060
70°	1891	1893	1934
75°	1720	1713	1753
80°	1477	1471	1495
85°	1145	1127	1133

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835715

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-2STD-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	3.5
10°-20°	260.6	9.9
20°-30°	387.9	14.8
30°-40°	458.7	17.5
40°-50°	468.3	17.9
50°-60°	417.9	16.0
60°-70°	314.8	12.0
70°-80°	175.5	6.7
80°-90°	44.0	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°	740.0	28.3
0°-40°	1198.8	45.8
0°-60°	2085.0	79.6
0°-90°	2619.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	963	965	964	964	965	91
15°	923	924	924	925	926	260
25°	840	840	842	844	845	387
35°	731	730	733	736	739	457
45°	604	604	607	610	613	466
55°	465	464	467	470	474	415
65°	316	315	318	320	324	313
75°	165	164	165	166	169	175
85°	37	36	36	36	37	45
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835715

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-2STD-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	969.4	969.4	969.4	969.4	969.4
2.5°	967.7	969.4	967.3	967.7	969.6
5°	963.1	964.9	963.9	964.1	965.1
7.5°	956.7	959.1	957.7	958.1	959.1
10°	949.1	950.9	949.3	950.3	952.1
12.5°	938.2	939.0	938.2	938.6	940.7
15°	923.2	924.2	923.8	924.6	926.4
17.5°	905.5	906.7	906.5	908.1	909.5
20°	886.5	886.7	887.5	889.1	890.7
22.5°	864.0	864.6	865.4	867.6	869.2
25°	839.5	840.5	841.5	843.7	845.3
27.5°	813.6	814.6	816.0	818.4	821.0
30°	787.1	787.1	789.7	792.1	794.5
32.5°	760.4	759.4	761.8	764.8	770.7
35°	730.9	730.1	732.7	735.5	738.6
37.5°	700.2	699.6	702.6	705.6	708.4
40°	669.1	668.3	671.3	674.3	677.3
42.5°	637.2	636.8	639.6	642.6	645.8
45°	604.1	603.9	606.7	609.7	612.9
47.5°	570.4	570.0	572.8	576.0	578.8
50°	535.9	535.5	538.3	541.5	544.5
52.5°	500.3	500.3	502.9	505.7	510.4
55°	464.6	464.0	466.8	470.0	474.4
57.5°	428.5	427.7	430.3	433.5	437.5
60°	391.6	390.8	393.2	396.4	402.0
62.5°	354.2	353.0	355.4	358.4	361.9
65°	316.5	315.3	317.5	320.3	323.5
67.5°	278.6	277.2	279.4	281.8	284.8
70°	240.4	239.0	240.6	243.0	245.8
72.5°	202.5	201.1	202.5	203.5	206.9
75°	165.4	164.0	164.8	165.6	168.6
77.5°	129.2	127.8	129.4	129.8	131.7
80°	95.3	93.9	94.9	95.1	96.5
82.5°	64.4	63.2	64.6	63.6	64.8
85°	37.1	36.1	36.5	36.1	36.7
87.5°	14.7	13.8	14.0	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)