

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: P835654

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835654
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-LD4-6LO-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

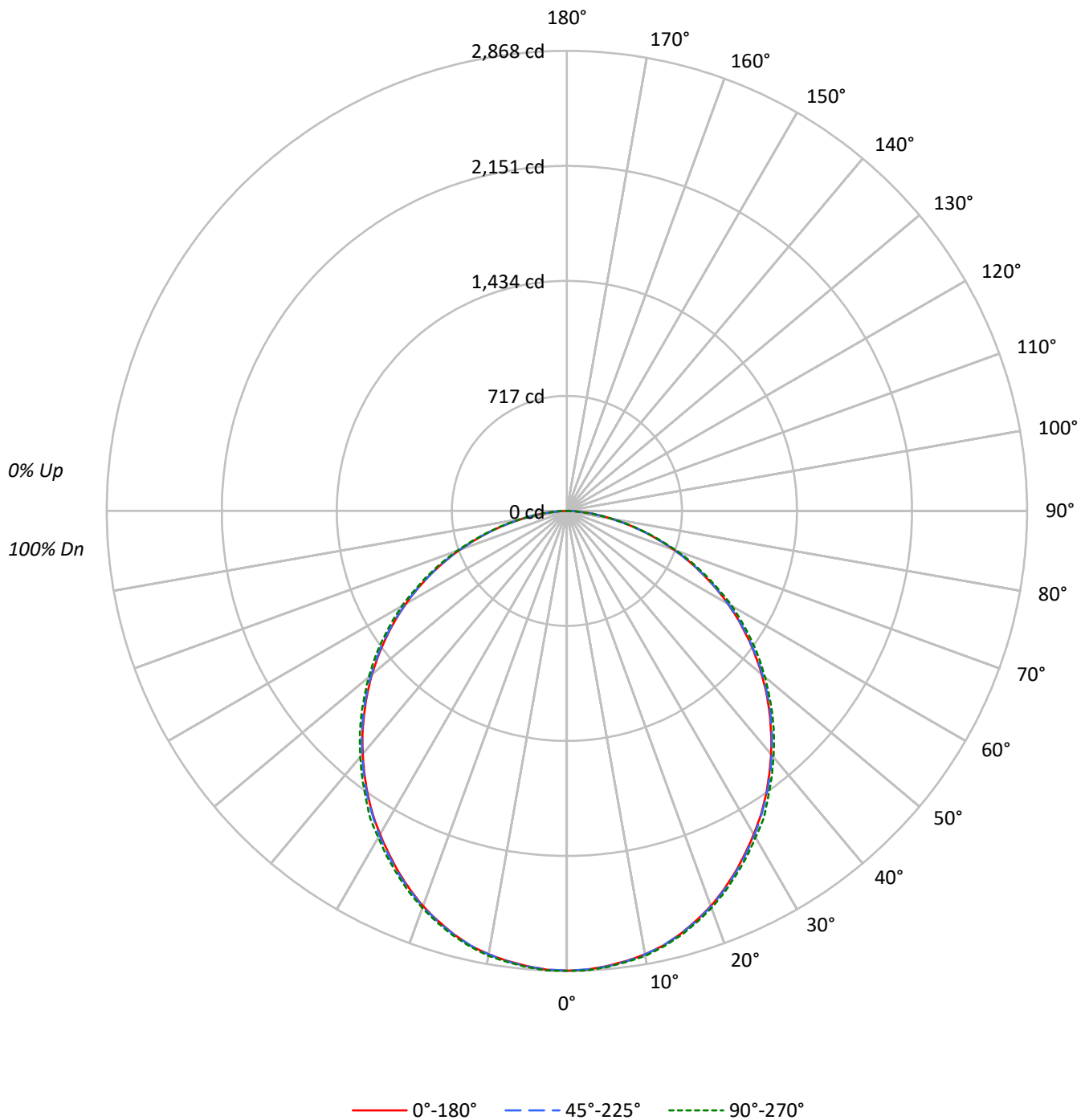
Lumens per Lamp: N/A
Luminaire Lumens: 7747.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P835654

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835654

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7715	7715	7715
5°	7695	7702	7711
10°	7670	7672	7695
15°	7607	7612	7634
20°	7508	7517	7544
25°	7372	7390	7424
30°	7234	7258	7302
35°	7102	7119	7176
40°	6952	6975	7038
45°	6799	6829	6899
50°	6635	6665	6742
55°	6447	6478	6584
60°	6233	6259	6399
65°	5961	5980	6093
70°	5595	5600	5722
75°	5085	5067	5184
80°	4370	4351	4424
85°	3390	3335	3353

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835654

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	3.5
10°-20°	770.7	9.9
20°-30°	1147.3	14.8
30°-40°	1356.8	17.5
40°-50°	1385.1	17.9
50°-60°	1236.1	16.0
60°-70°	931.0	12.0
70°-80°	519.2	6.7
80°-90°	130.1	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°	2188.9	28.3
0°-40°	3545.7	45.8
0°-60°	6166.9	79.6
0°-90°	7747.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7747.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2867	2867	2867	2867	2867	
5°	2849	2854	2851	2852	2855	271
15°	2731	2734	2732	2735	2740	770
25°	2483	2486	2489	2496	2500	1144
35°	2162	2160	2167	2176	2184	1352
45°	1787	1786	1794	1803	1813	1378
55°	1374	1372	1381	1390	1403	1228
65°	936	933	939	947	957	926
75°	489	485	487	490	499	519
85°	110	107	108	107	109	132
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835654

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-6LO-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2867.1	2867.1	2867.1	2867.1	2867.1
2.5°	2862.4	2867.1	2861.2	2862.4	2867.7
5°	2848.7	2854.0	2851.1	2851.7	2854.6
7.5°	2829.7	2836.8	2832.7	2833.9	2836.8
10°	2807.1	2812.5	2807.7	2810.7	2816.1
12.5°	2775.1	2777.5	2775.1	2776.3	2782.2
15°	2730.6	2733.5	2732.4	2734.7	2740.1
17.5°	2678.3	2681.9	2681.3	2686.1	2690.2
20°	2621.9	2622.5	2624.9	2629.7	2634.4
22.5°	2555.5	2557.2	2559.6	2566.1	2570.9
25°	2483.0	2486.0	2489.0	2495.5	2500.3
27.5°	2406.5	2409.4	2413.6	2420.7	2428.4
30°	2328.1	2328.1	2335.8	2343.0	2350.1
32.5°	2249.2	2246.2	2253.3	2262.2	2279.4
35°	2161.9	2159.5	2167.2	2175.6	2184.5
37.5°	2071.1	2069.3	2078.2	2087.1	2095.4
40°	1979.1	1976.7	1985.6	1994.5	2003.4
42.5°	1884.7	1883.5	1891.8	1900.7	1910.2
45°	1786.7	1786.2	1794.5	1803.4	1812.9
47.5°	1687.0	1685.8	1694.1	1703.6	1712.0
50°	1584.9	1583.7	1592.0	1601.5	1610.4
52.5°	1479.9	1479.9	1487.6	1495.9	1509.5
55°	1374.2	1372.4	1380.7	1390.2	1403.3
57.5°	1267.3	1265.0	1272.7	1282.2	1294.1
60°	1158.1	1155.7	1162.9	1172.4	1189.0
62.5°	1047.7	1044.1	1051.3	1060.2	1070.3
65°	936.1	932.6	939.1	947.4	956.9
67.5°	823.9	819.8	826.3	833.4	842.3
70°	711.1	707.0	711.7	718.9	727.2
72.5°	598.9	594.8	598.9	601.9	612.0
75°	489.1	485.0	487.3	489.7	498.6
77.5°	382.3	378.1	382.9	384.1	389.4
80°	282.0	277.8	280.8	281.4	285.5
82.5°	190.5	187.0	191.1	188.2	191.7
85°	109.8	106.8	108.0	106.8	108.6
87.5°	43.3	41.0	41.6	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)