

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: P835115

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835115
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-6STD-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

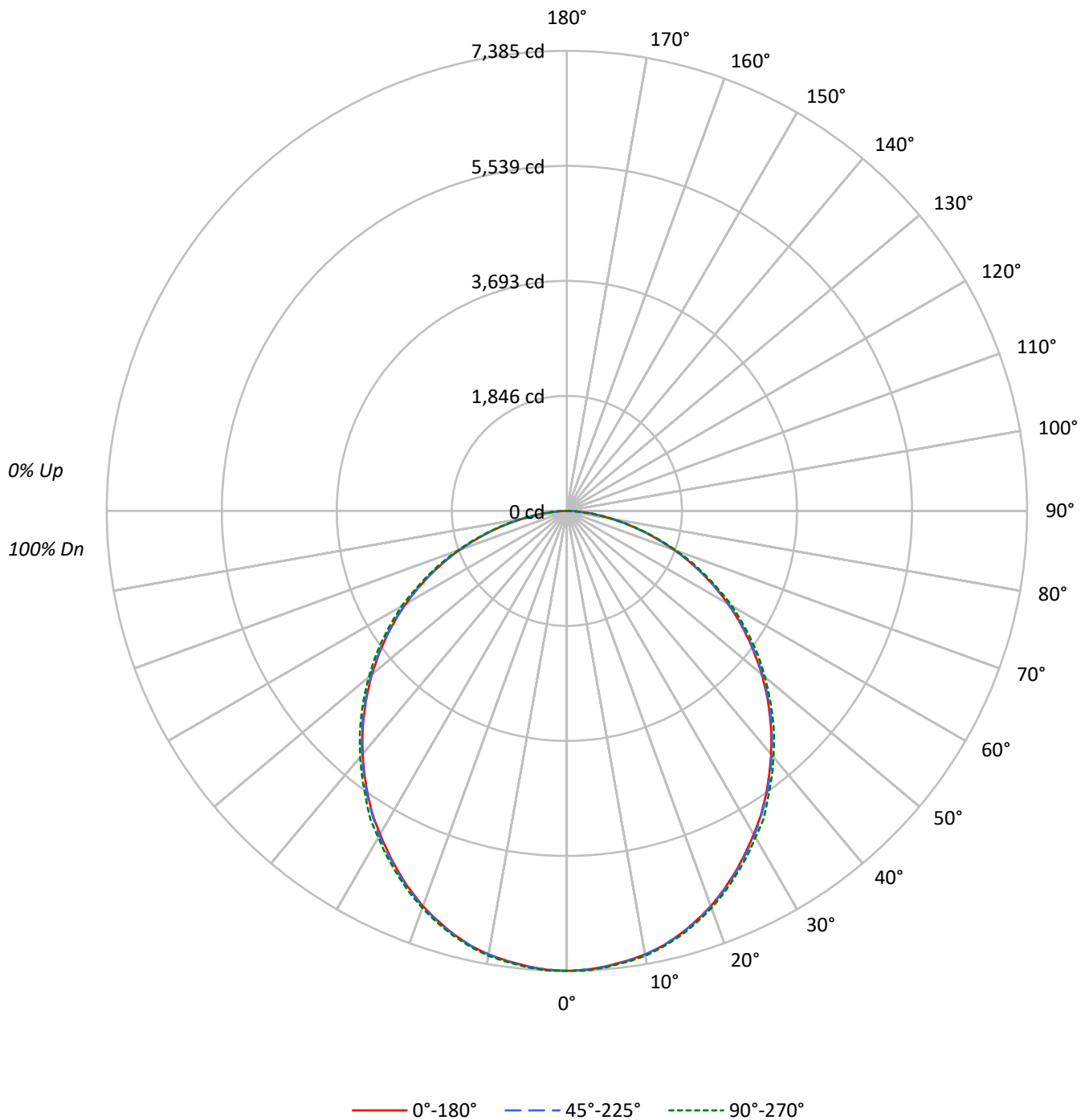
Lumens per Lamp: N/A
Luminaire Lumens: 19951.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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: P835115

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-35-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835115

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-35-120-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	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°	9935	9935	9935
5°	9908	9917	9929
10°	9877	9879	9908
15°	9795	9802	9829
20°	9668	9679	9714
25°	9493	9516	9559
30°	9315	9346	9403
35°	9145	9168	9240
40°	8952	8981	9062
45°	8756	8793	8883
50°	8544	8582	8681
55°	8302	8341	8477
60°	8026	8059	8240
65°	7675	7699	7846
70°	7205	7211	7367
75°	6548	6525	6675
80°	5626	5603	5697
85°	4366	4295	4319

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835115

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.7	3.5
10°-20°	1984.7	9.9
20°-30°	2954.6	14.8
30°-40°	3494.1	17.5
40°-50°	3567.0	17.9
50°-60°	3183.3	16.0
60°-70°	2397.7	12.0
70°-80°	1337.1	6.7
80°-90°	335.0	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°	5637.0	28.3
0°-40°	9131.1	45.8
0°-60°	15881.5	79.6
0°-90°	19951.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19951.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7384	7384	7384	7384	7384	
5°	7336	7350	7342	7344	7352	697
15°	7032	7040	7037	7043	7056	1982
25°	6394	6402	6410	6427	6439	2946
35°	5568	5561	5581	5603	5626	3482
45°	4601	4600	4621	4644	4669	3550
55°	3539	3534	3556	3580	3614	3163
65°	2411	2402	2418	2440	2464	2384
75°	1260	1249	1255	1261	1284	1335
85°	283	275	278	275	280	339
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835115

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7383.6	7383.6	7383.6	7383.6	7383.6
2.5°	7371.4	7383.6	7368.3	7371.4	7385.1
5°	7336.2	7350.0	7342.3	7343.9	7351.5
7.5°	7287.3	7305.6	7294.9	7298.0	7305.6
10°	7229.2	7243.0	7230.7	7238.4	7252.1
12.5°	7146.6	7152.8	7146.6	7149.7	7165.0
15°	7032.0	7039.6	7036.6	7042.7	7056.5
17.5°	6897.5	6906.6	6905.1	6917.3	6928.0
20°	6752.2	6753.8	6759.9	6772.1	6784.3
22.5°	6581.0	6585.6	6591.7	6608.5	6620.8
25°	6394.5	6402.2	6409.8	6426.6	6438.9
27.5°	6197.3	6205.0	6215.7	6234.0	6253.9
30°	5995.5	5995.5	6015.4	6033.8	6052.1
32.5°	5792.2	5784.6	5802.9	5825.9	5870.2
35°	5567.5	5561.4	5581.3	5602.7	5625.6
37.5°	5333.6	5329.0	5352.0	5374.9	5396.3
40°	5096.7	5090.6	5113.5	5136.4	5159.3
42.5°	4853.6	4850.5	4872.0	4894.9	4919.3
45°	4601.4	4599.8	4621.2	4644.2	4668.6
47.5°	4344.6	4341.5	4362.9	4387.4	4408.8
50°	4081.6	4078.6	4100.0	4124.4	4147.3
52.5°	3811.0	3811.0	3830.9	3852.3	3887.5
55°	3538.9	3534.3	3555.7	3580.2	3613.8
57.5°	3263.8	3257.6	3277.5	3302.0	3332.6
60°	2982.5	2976.4	2994.7	3019.2	3062.0
62.5°	2698.1	2689.0	2707.3	2730.2	2756.2
65°	2410.8	2401.6	2418.4	2439.8	2464.3
67.5°	2121.8	2111.1	2127.9	2146.3	2169.2
70°	1831.4	1820.7	1832.9	1851.2	1872.7
72.5°	1542.5	1531.8	1542.5	1550.1	1576.1
75°	1259.6	1248.9	1255.1	1261.2	1284.1
77.5°	984.5	973.8	986.0	989.1	1002.8
80°	726.1	715.4	723.1	724.6	735.3
82.5°	490.7	481.5	492.2	484.6	493.8
85°	282.8	275.2	278.2	275.2	279.8
87.5°	111.6	105.5	107.0	100.9	100.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)