

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P834983

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834983
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-LD4-4STD-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

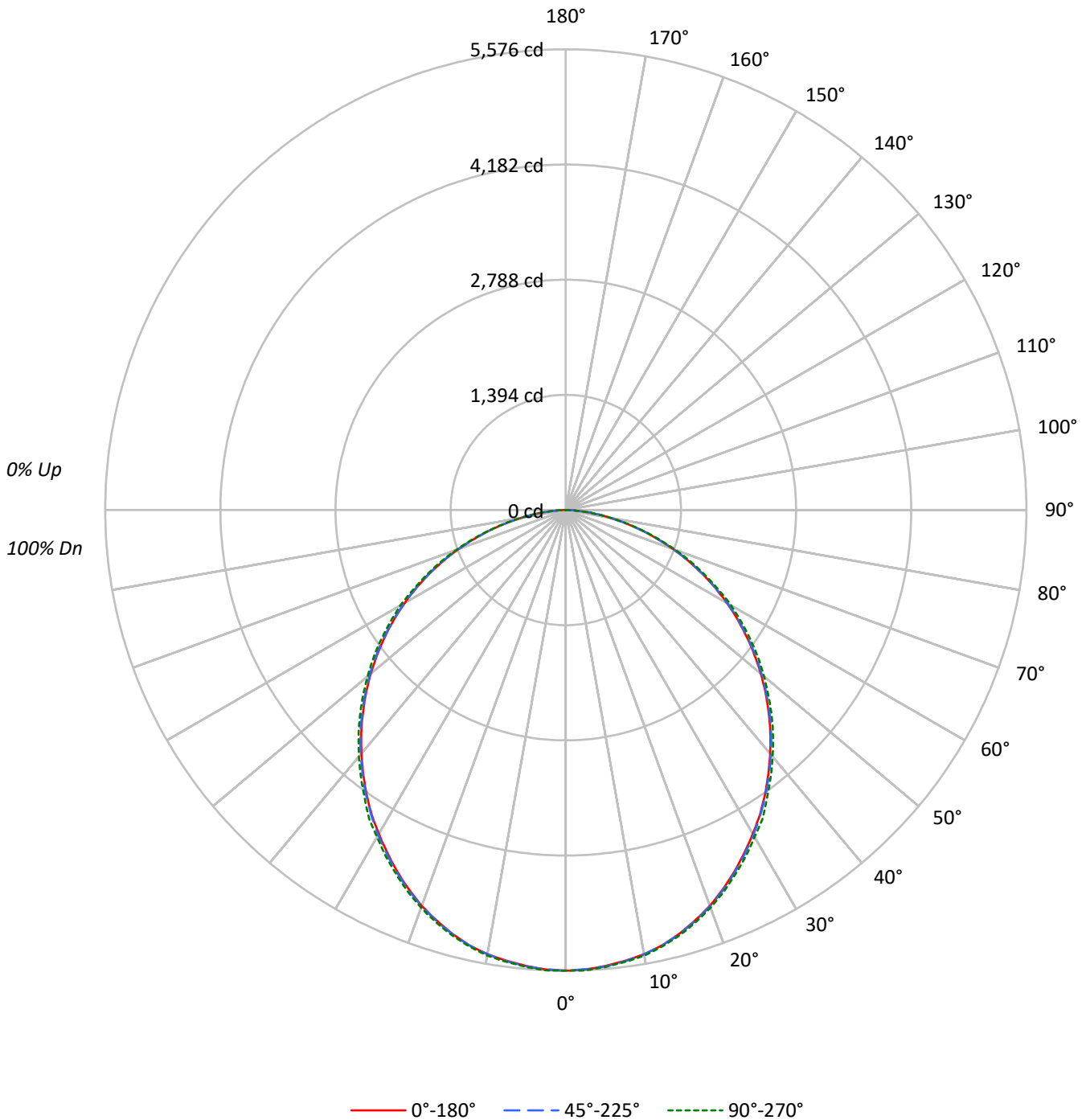
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15063.7 lumens
Efficiency: N/A
Efficacy: 113.1 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): 133.2
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: P834983
CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-30-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
 1121 Highway 74 South
 Peachtree City, GA 30269



TEST NUMBER: P834983

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-30-120-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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7501	7501	7501
5°	7481	7487	7497
10°	7457	7459	7481
15°	7396	7400	7421
20°	7300	7308	7334
25°	7168	7185	7217
30°	7033	7056	7099
35°	6905	6922	6977
40°	6759	6781	6842
45°	6611	6639	6707
50°	6451	6480	6554
55°	6268	6298	6400
60°	6060	6085	6221
65°	5795	5813	5924
70°	5439	5444	5562
75°	4944	4926	5040
80°	4248	4230	4302
85°	3296	3243	3260

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834983

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	3.5
10°-20°	1498.5	9.9
20°-30°	2230.8	14.8
30°-40°	2638.1	17.5
40°-50°	2693.2	17.9
50°-60°	2403.5	16.0
60°-70°	1810.3	12.0
70°-80°	1009.6	6.7
80°-90°	252.9	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°	4256.1	28.3
0°-40°	6894.2	45.8
0°-60°	11990.9	79.6
0°-90°	15063.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15063.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5575	5575	5575	5575	5575	
5°	5539	5549	5544	5545	5550	526
15°	5309	5315	5313	5317	5328	1496
25°	4828	4834	4840	4852	4862	2224
35°	4204	4199	4214	4230	4247	2629
45°	3474	3473	3489	3506	3525	2680
55°	2672	2668	2685	2703	2728	2388
65°	1820	1813	1826	1842	1861	1800
75°	951	943	948	952	970	1008
85°	214	208	210	208	211	256
90°	0	0	0	0	0	



TEST NUMBER: P834983

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-4STD-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5574.8	5574.8	5574.8	5574.8	5574.8
2.5°	5565.5	5574.8	5563.2	5565.5	5575.9
5°	5539.0	5549.4	5543.6	5544.8	5550.5
7.5°	5502.1	5515.9	5507.8	5510.1	5515.9
10°	5458.2	5468.6	5459.3	5465.1	5475.5
12.5°	5395.9	5400.5	5395.9	5398.2	5409.7
15°	5309.3	5315.1	5312.8	5317.4	5327.8
17.5°	5207.7	5214.7	5213.5	5222.7	5230.8
20°	5098.1	5099.2	5103.9	5113.1	5122.3
22.5°	4968.8	4972.3	4976.9	4989.6	4998.8
25°	4828.0	4833.8	4839.5	4852.2	4861.5
27.5°	4679.1	4684.9	4693.0	4706.8	4721.8
30°	4526.8	4526.8	4541.8	4555.6	4569.5
32.5°	4373.2	4367.5	4381.3	4398.6	4432.1
35°	4203.6	4199.0	4214.0	4230.1	4247.4
37.5°	4027.0	4023.5	4040.8	4058.2	4074.3
40°	3848.1	3843.5	3860.8	3878.1	3895.4
42.5°	3664.6	3662.3	3678.4	3695.7	3714.2
45°	3474.1	3473.0	3489.1	3506.4	3524.9
47.5°	3280.2	3277.9	3294.1	3312.5	3328.7
50°	3081.7	3079.4	3095.6	3114.0	3131.3
52.5°	2877.4	2877.4	2892.4	2908.6	2935.1
55°	2672.0	2668.5	2684.7	2703.1	2728.5
57.5°	2464.2	2459.6	2474.6	2493.1	2516.1
60°	2251.8	2247.2	2261.1	2279.5	2311.9
62.5°	2037.2	2030.2	2044.1	2061.4	2081.0
65°	1820.2	1813.2	1825.9	1842.1	1860.6
67.5°	1602.0	1593.9	1606.6	1620.5	1637.8
70°	1382.7	1374.6	1383.9	1397.7	1413.9
72.5°	1164.6	1156.5	1164.6	1170.4	1190.0
75°	951.1	943.0	947.6	952.2	969.5
77.5°	743.3	735.2	744.5	746.8	757.2
80°	548.2	540.2	545.9	547.1	555.2
82.5°	370.5	363.6	371.7	365.9	372.8
85°	213.5	207.8	210.1	207.8	211.2
87.5°	84.3	79.6	80.8	76.2	76.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)