

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: P835604

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835604
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-LD4-1STD-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

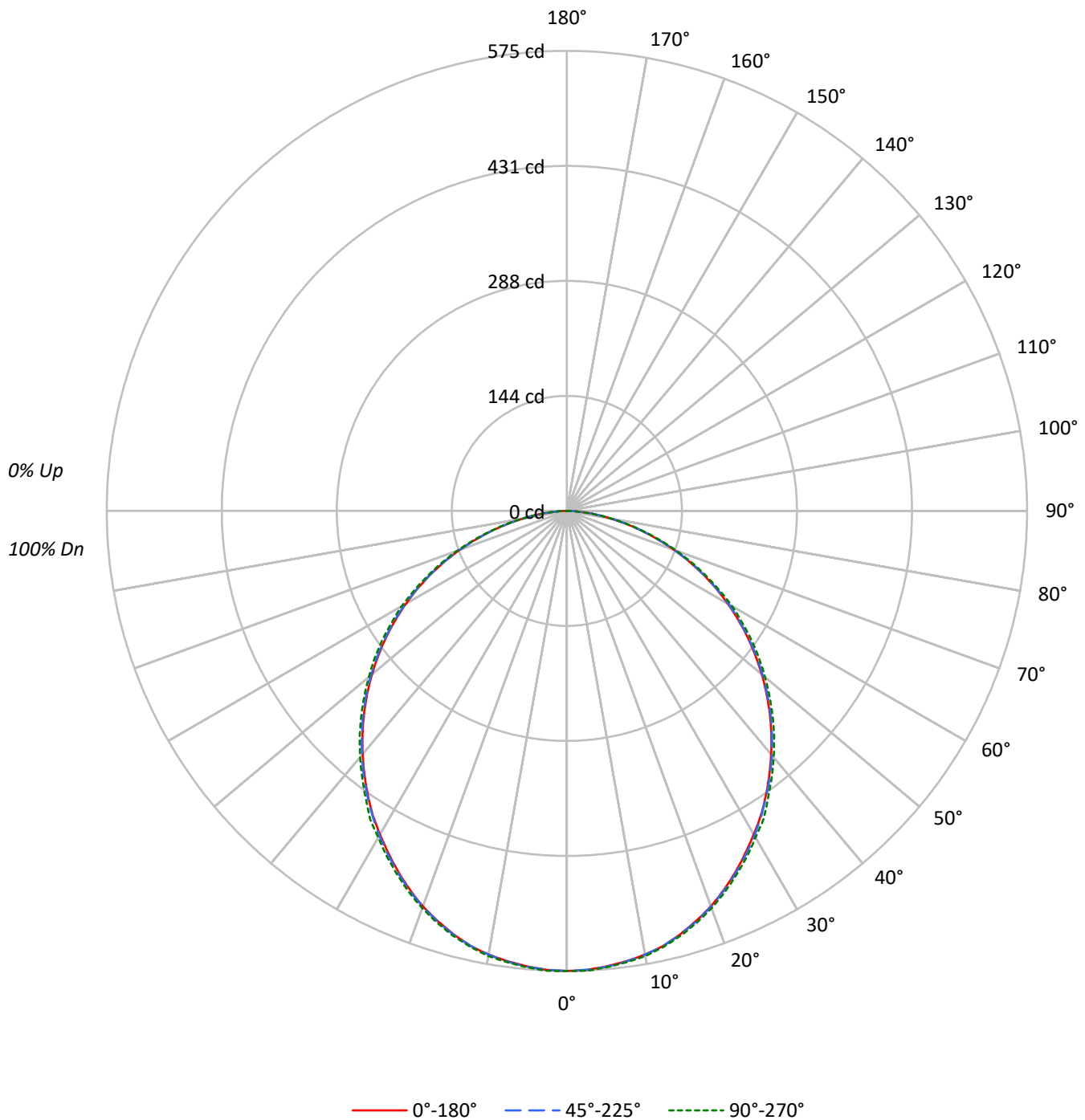
Lumens per Lamp: N/A
Luminaire Lumens: 1554.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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: P835604

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-27-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835604

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-27-120-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	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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1548	1548	1548
5°	1543	1545	1547
10°	1539	1539	1544
15°	1526	1527	1531
20°	1506	1508	1513
25°	1479	1483	1489
30°	1451	1456	1465
35°	1425	1428	1440
40°	1395	1399	1412
45°	1364	1370	1384
50°	1331	1337	1353
55°	1293	1300	1321
60°	1250	1256	1284
65°	1196	1200	1222
70°	1123	1124	1148
75°	1020	1017	1040
80°	877	872	888
85°	679	670	673

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835604

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.5
10°-20°	154.6	9.9
20°-30°	230.1	14.8
30°-40°	272.2	17.5
40°-50°	277.9	17.9
50°-60°	248.0	16.0
60°-70°	186.8	12.0
70°-80°	104.1	6.7
80°-90°	26.1	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°	439.1	28.3
0°-40°	711.3	45.8
0°-60°	1237.1	79.6
0°-90°	1554.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	571	572	572	572	573	54
15°	548	548	548	549	550	154
25°	498	499	499	501	502	229
35°	434	433	435	436	438	271
45°	358	358	360	362	364	276
55°	276	275	277	279	282	246
65°	188	187	188	190	192	186
75°	98	97	98	98	100	104
85°	22	21	22	21	22	26
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835604

CATALOG NUMBER: ORLG-24-2-INS-OPL-LD4-1STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.1	575.1	575.1	575.1	575.1
2.5°	574.2	575.1	573.9	574.2	575.3
5°	571.4	572.5	571.9	572.0	572.6
7.5°	567.6	569.1	568.2	568.5	569.1
10°	563.1	564.2	563.2	563.8	564.9
12.5°	556.7	557.2	556.7	556.9	558.1
15°	547.7	548.3	548.1	548.6	549.7
17.5°	537.3	538.0	537.9	538.8	539.6
20°	526.0	526.1	526.5	527.5	528.5
22.5°	512.6	513.0	513.5	514.8	515.7
25°	498.1	498.7	499.3	500.6	501.5
27.5°	482.7	483.3	484.2	485.6	487.1
30°	467.0	467.0	468.6	470.0	471.4
32.5°	451.2	450.6	452.0	453.8	457.2
35°	433.7	433.2	434.7	436.4	438.2
37.5°	415.5	415.1	416.9	418.7	420.3
40°	397.0	396.5	398.3	400.1	401.9
42.5°	378.1	377.8	379.5	381.3	383.2
45°	358.4	358.3	360.0	361.8	363.7
47.5°	338.4	338.2	339.8	341.7	343.4
50°	317.9	317.7	319.4	321.3	323.1
52.5°	296.9	296.9	298.4	300.1	302.8
55°	275.7	275.3	277.0	278.9	281.5
57.5°	254.2	253.7	255.3	257.2	259.6
60°	232.3	231.8	233.3	235.2	238.5
62.5°	210.2	209.5	210.9	212.7	214.7
65°	187.8	187.1	188.4	190.0	191.9
67.5°	165.3	164.4	165.8	167.2	169.0
70°	142.7	141.8	142.8	144.2	145.9
72.5°	120.1	119.3	120.1	120.7	122.8
75°	98.1	97.3	97.8	98.2	100.0
77.5°	76.7	75.9	76.8	77.0	78.1
80°	56.6	55.7	56.3	56.4	57.3
82.5°	38.2	37.5	38.3	37.7	38.5
85°	22.0	21.4	21.7	21.4	21.8
87.5°	8.7	8.2	8.3	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)