

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: P834487

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834487
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1LO-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

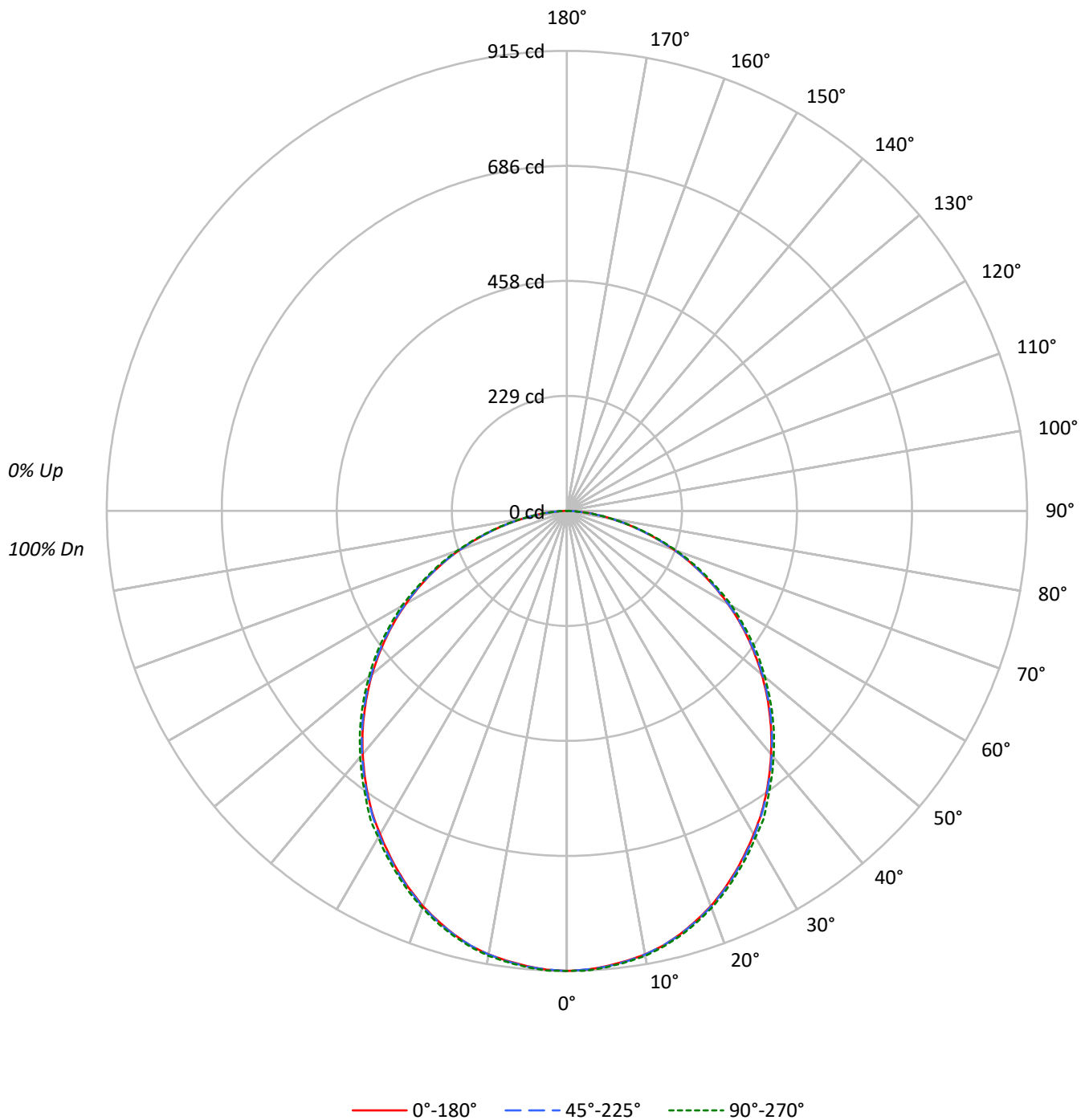
Lumens per Lamp: N/A
Luminaire Lumens: 2472.1 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P834487

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1LO-40-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834487

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1LO-40-120-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°	2462	2462	2462
5°	2455	2458	2461
10°	2447	2448	2455
15°	2427	2429	2436
20°	2396	2399	2407
25°	2352	2358	2369
30°	2308	2316	2330
35°	2266	2272	2290
40°	2218	2226	2246
45°	2170	2179	2202
50°	2117	2127	2151
55°	2057	2067	2101
60°	1989	1997	2042
65°	1902	1908	1944
70°	1785	1787	1825
75°	1623	1617	1654
80°	1395	1389	1412
85°	1081	1065	1071

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834487

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1LO-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.5
10°-20°	245.9	9.9
20°-30°	366.1	14.8
30°-40°	432.9	17.5
40°-50°	442.0	17.9
50°-60°	394.4	16.0
60°-70°	297.1	12.0
70°-80°	165.7	6.7
80°-90°	41.5	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°	698.5	28.3
0°-40°	1131.4	45.8
0°-60°	1967.8	79.6
0°-90°	2472.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2472.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	909	911	910	910	911	86
15°	871	872	872	873	874	246
25°	792	793	794	796	798	365
35°	690	689	692	694	697	431
45°	570	570	573	575	578	440
55°	438	438	441	444	448	392
65°	299	298	300	302	305	295
75°	156	155	156	156	159	165
85°	35	34	34	34	35	42
90°	0	0	0	0	0	

TEST NUMBER: P834487

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-1LO-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.9	914.9	914.9	914.9	914.9
2.5°	913.4	914.9	913.0	913.4	915.1
5°	909.0	910.7	909.8	910.0	910.9
7.5°	902.9	905.2	903.9	904.3	905.2
10°	895.7	897.4	895.9	896.9	898.6
12.5°	885.5	886.3	885.5	885.9	887.8
15°	871.3	872.3	871.9	872.6	874.3
17.5°	854.6	855.8	855.6	857.1	858.4
20°	836.6	836.8	837.6	839.1	840.6
22.5°	815.4	816.0	816.8	818.8	820.4
25°	792.3	793.3	794.2	796.3	797.8
27.5°	767.9	768.8	770.2	772.4	774.9
30°	742.9	742.9	745.3	747.6	749.9
32.5°	717.7	716.7	719.0	721.9	727.4
35°	689.9	689.1	691.6	694.2	697.0
37.5°	660.9	660.3	663.1	666.0	668.6
40°	631.5	630.8	633.6	636.4	639.3
42.5°	601.4	601.0	603.7	606.5	609.5
45°	570.1	570.0	572.6	575.4	578.5
47.5°	538.3	537.9	540.6	543.6	546.3
50°	505.7	505.4	508.0	511.0	513.9
52.5°	472.2	472.2	474.7	477.3	481.7
55°	438.5	437.9	440.6	443.6	447.8
57.5°	404.4	403.6	406.1	409.1	412.9
60°	369.5	368.8	371.1	374.1	379.4
62.5°	334.3	333.2	335.5	338.3	341.5
65°	298.7	297.6	299.7	302.3	305.3
67.5°	262.9	261.6	263.7	265.9	268.8
70°	226.9	225.6	227.1	229.4	232.0
72.5°	191.1	189.8	191.1	192.1	195.3
75°	156.1	154.8	155.5	156.3	159.1
77.5°	122.0	120.7	122.2	122.6	124.3
80°	90.0	88.6	89.6	89.8	91.1
82.5°	60.8	59.7	61.0	60.0	61.2
85°	35.0	34.1	34.5	34.1	34.7
87.5°	13.8	13.1	13.3	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)