

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: P834495

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834495
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-LD4-3HI-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

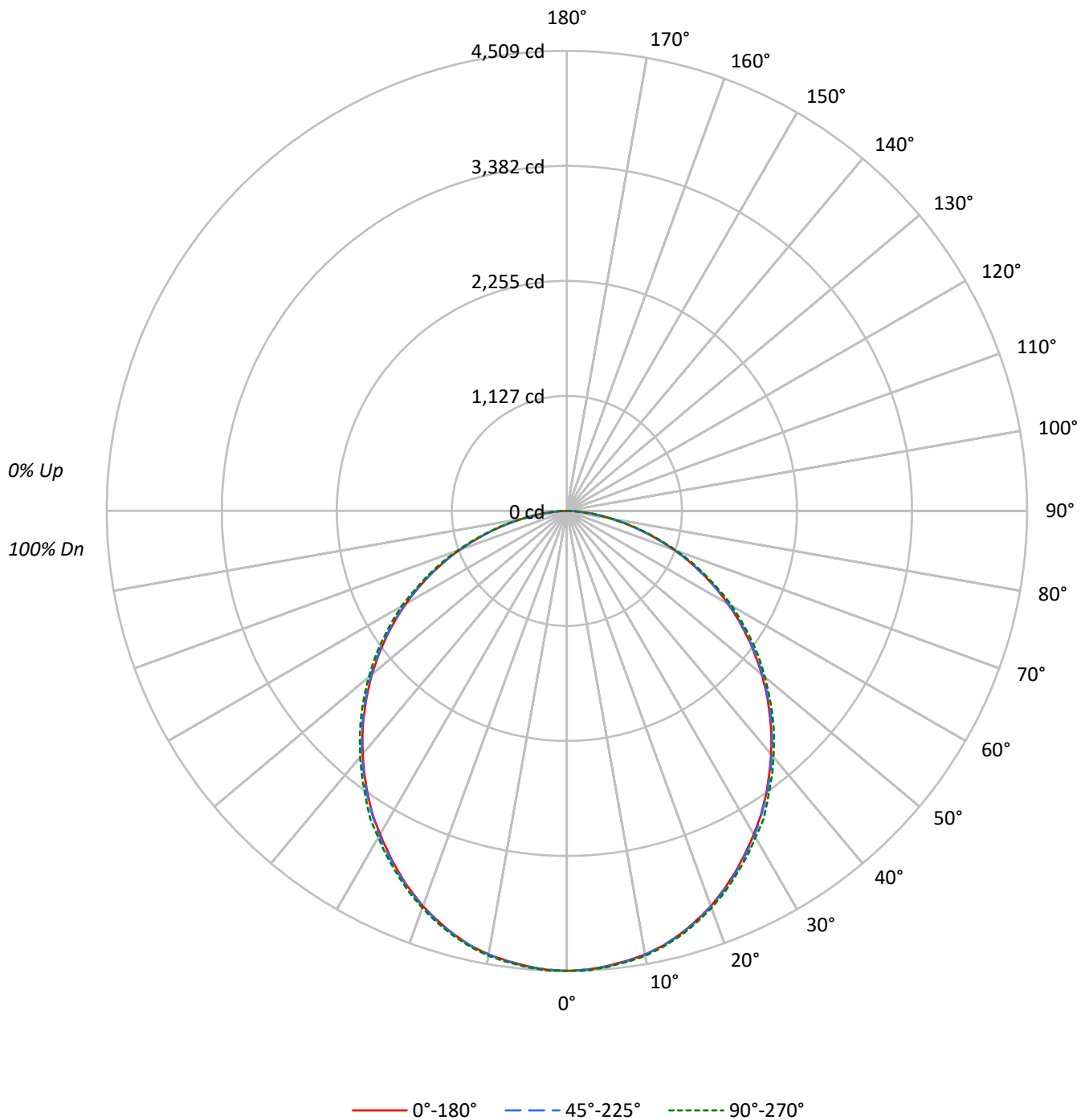
Lumens per Lamp: N/A
Luminaire Lumens: 12181.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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: P834495

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3HI-40-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834495

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3HI-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	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°	12131	12131	12131
5°	12099	12109	12125
10°	12061	12063	12099
15°	11961	11969	12003
20°	11806	11819	11862
25°	11593	11620	11673
30°	11375	11412	11482
35°	11167	11195	11284
40°	10931	10967	11066
45°	10692	10738	10848
50°	10433	10480	10601
55°	10137	10185	10352
60°	9801	9841	10062
65°	9372	9402	9580
70°	8798	8805	8996
75°	7996	7967	8151
80°	6870	6842	6956
85°	5332	5246	5274

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834495

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	3.5
10°-20°	1211.8	9.9
20°-30°	1804.0	14.8
30°-40°	2133.4	17.5
40°-50°	2177.9	17.9
50°-60°	1943.6	16.0
60°-70°	1463.9	12.0
70°-80°	816.4	6.7
80°-90°	204.5	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°	3441.8	28.3
0°-40°	5575.1	45.8
0°-60°	9696.6	79.6
0°-90°	12181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12181.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4508	4508	4508	4508	4508	
5°	4479	4488	4483	4484	4488	425
15°	4294	4298	4296	4300	4308	1210
25°	3904	3909	3914	3924	3931	1799
35°	3399	3396	3408	3421	3435	2126
45°	2809	2808	2822	2836	2850	2167
55°	2161	2158	2171	2186	2206	1931
65°	1472	1466	1477	1490	1505	1456
75°	769	763	766	770	784	815
85°	173	168	170	168	171	207
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834495

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-3HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4508.1	4508.1	4508.1	4508.1	4508.1
2.5°	4500.7	4508.1	4498.8	4500.7	4509.1
5°	4479.2	4487.6	4482.9	4483.9	4488.5
7.5°	4449.3	4460.5	4454.0	4455.9	4460.5
10°	4413.9	4422.3	4414.8	4419.5	4427.9
12.5°	4363.5	4367.2	4363.5	4365.3	4374.7
15°	4293.5	4298.1	4296.3	4300.0	4308.4
17.5°	4211.3	4216.9	4216.0	4223.5	4230.0
20°	4122.7	4123.6	4127.3	4134.8	4142.3
22.5°	4018.1	4020.9	4024.7	4034.9	4042.4
25°	3904.3	3908.9	3913.6	3923.9	3931.3
27.5°	3783.9	3788.5	3795.1	3806.3	3818.4
30°	3660.7	3660.7	3672.8	3684.0	3695.2
32.5°	3536.5	3531.8	3543.0	3557.0	3584.1
35°	3399.3	3395.6	3407.7	3420.8	3434.8
37.5°	3256.5	3253.7	3267.7	3281.7	3294.8
40°	3111.8	3108.1	3122.1	3136.1	3150.1
42.5°	2963.4	2961.6	2974.6	2988.6	3003.6
45°	2809.4	2808.5	2821.6	2835.6	2850.5
47.5°	2652.6	2650.8	2663.8	2678.8	2691.8
50°	2492.1	2490.2	2503.3	2518.2	2532.2
52.5°	2326.9	2326.9	2339.0	2352.1	2373.5
55°	2160.7	2157.9	2171.0	2185.9	2206.5
57.5°	1992.7	1989.0	2001.1	2016.1	2034.7
60°	1821.0	1817.3	1828.5	1843.4	1869.5
62.5°	1647.4	1641.8	1653.0	1667.0	1682.9
65°	1471.9	1466.3	1476.6	1489.6	1504.6
67.5°	1295.5	1289.0	1299.2	1310.4	1324.4
70°	1118.2	1111.6	1119.1	1130.3	1143.4
72.5°	941.8	935.2	941.8	946.4	962.3
75°	769.1	762.6	766.3	770.0	784.0
77.5°	601.1	594.6	602.0	603.9	612.3
80°	443.3	436.8	441.5	442.4	448.9
82.5°	299.6	294.0	300.5	295.9	301.5
85°	172.7	168.0	169.9	168.0	170.8
87.5°	68.1	64.4	65.3	61.6	61.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)