

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: P835134

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835134
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-LD4-6HI-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

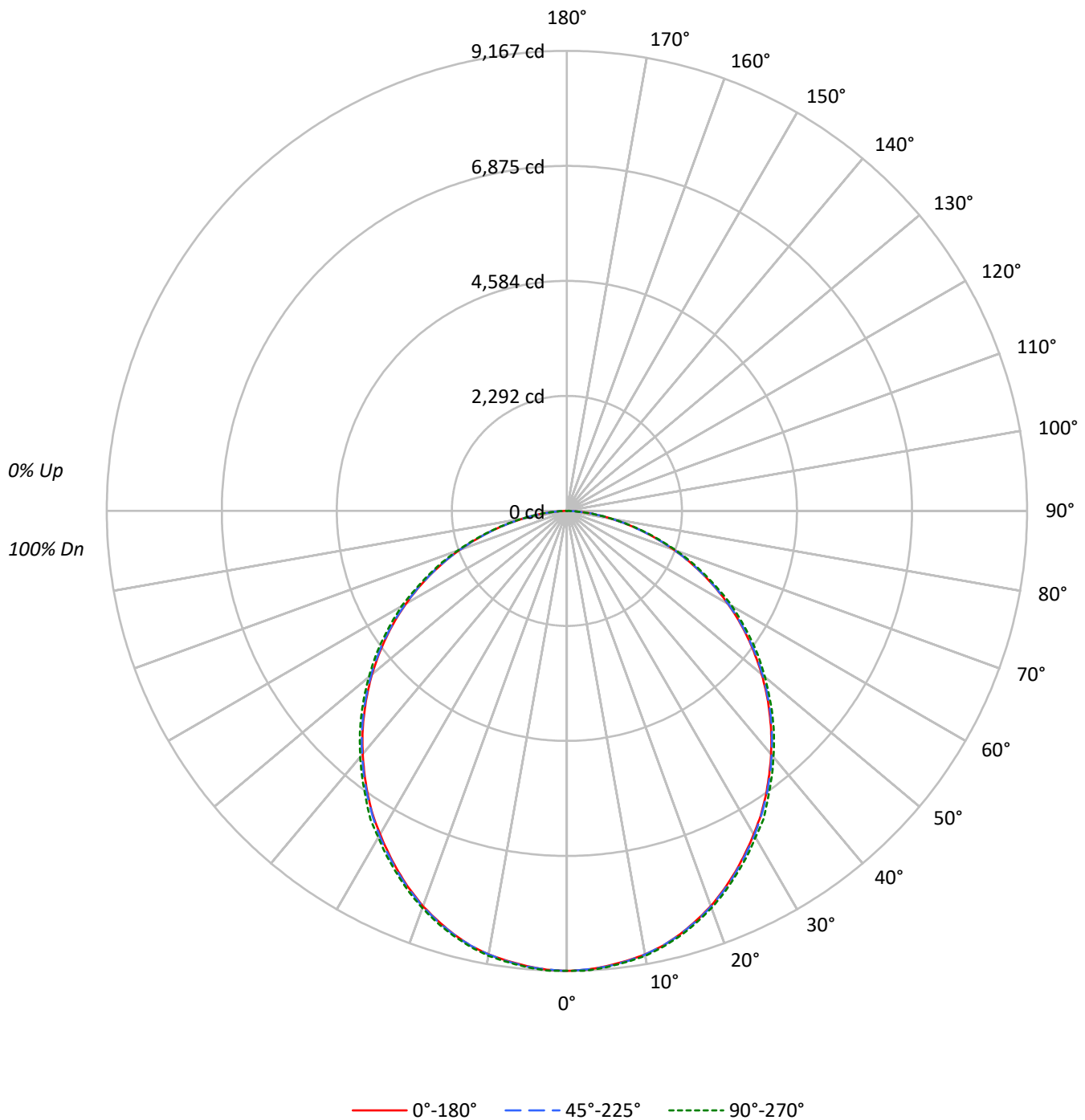
Lumens per Lamp: N/A
Luminaire Lumens: 24765.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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: P835134

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6HI-40-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835134

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6HI-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°	12332	12332	12332
5°	12300	12310	12325
10°	12260	12263	12299
15°	12159	12167	12201
20°	12001	12015	12058
25°	11784	11812	11866
30°	11563	11601	11672
35°	11352	11380	11470
40°	11112	11149	11249
45°	10868	10915	11027
50°	10605	10653	10776
55°	10305	10354	10523
60°	9963	10003	10228
65°	9527	9557	9739
70°	8943	8951	9145
75°	8128	8099	8287
80°	6984	6955	7072
85°	5420	5332	5362

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835134

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.1	3.5
10°-20°	2463.6	9.9
20°-30°	3667.6	14.8
30°-40°	4337.3	17.5
40°-50°	4427.8	17.9
50°-60°	3951.5	16.0
60°-70°	2976.3	12.0
70°-80°	1659.8	6.7
80°-90°	415.8	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°	6997.3	28.3
0°-40°	11334.6	45.8
0°-60°	19714.0	79.6
0°-90°	24765.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24765.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9165	9165	9165	9165	9165	
5°	9107	9124	9114	9116	9126	865
15°	8729	8738	8735	8742	8759	2460
25°	7938	7947	7957	7978	7993	3657
35°	6911	6904	6928	6955	6983	4322
45°	5712	5710	5736	5765	5795	4406
55°	4393	4387	4414	4444	4486	3927
65°	2992	2981	3002	3029	3059	2960
75°	1564	1550	1558	1566	1594	1658
85°	351	342	345	342	347	421
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835134

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9165.4	9165.4	9165.4	9165.4	9165.4
2.5°	9150.2	9165.4	9146.4	9150.2	9167.3
5°	9106.6	9123.6	9114.2	9116.0	9125.5
7.5°	9045.8	9068.6	9055.3	9059.1	9068.6
10°	8973.7	8990.8	8975.6	8985.1	9002.2
12.5°	8871.3	8878.8	8871.3	8875.1	8894.0
15°	8728.9	8738.4	8734.6	8742.2	8759.3
17.5°	8562.0	8573.3	8571.4	8586.6	8599.9
20°	8381.7	8383.6	8391.2	8406.3	8421.5
22.5°	8169.1	8174.8	8182.4	8203.3	8218.5
25°	7937.6	7947.1	7956.6	7977.5	7992.7
27.5°	7692.9	7702.3	7715.6	7738.4	7763.1
30°	7442.4	7442.4	7467.0	7489.8	7512.6
32.5°	7190.0	7180.5	7203.3	7231.7	7286.8
35°	6911.0	6903.5	6928.1	6954.7	6983.2
37.5°	6620.7	6615.0	6643.5	6671.9	6698.5
40°	6326.6	6319.0	6347.5	6375.9	6404.4
42.5°	6024.9	6021.1	6047.6	6076.1	6106.5
45°	5711.8	5709.9	5736.4	5764.9	5795.3
47.5°	5393.0	5389.2	5415.7	5446.1	5472.7
50°	5066.6	5062.8	5089.4	5119.7	5148.2
52.5°	4730.7	4730.7	4755.4	4781.9	4825.6
55°	4392.9	4387.2	4413.8	4444.2	4485.9
57.5°	4051.4	4043.8	4068.4	4098.8	4136.8
60°	3702.2	3694.6	3717.4	3747.8	3800.9
62.5°	3349.3	3337.9	3360.6	3389.1	3421.4
65°	2992.5	2981.1	3002.0	3028.6	3058.9
67.5°	2633.9	2620.6	2641.5	2664.2	2692.7
70°	2273.3	2260.0	2275.2	2298.0	2324.6
72.5°	1914.7	1901.4	1914.7	1924.2	1956.4
75°	1563.6	1550.3	1557.9	1565.5	1594.0
77.5°	1222.1	1208.8	1223.9	1227.7	1244.8
80°	901.4	888.1	897.6	899.5	912.7
82.5°	609.1	597.7	611.0	601.5	612.9
85°	351.1	341.6	345.4	341.6	347.3
87.5°	138.5	130.9	132.8	125.2	125.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)