

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: P835097

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835097
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-LD4-6STD-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

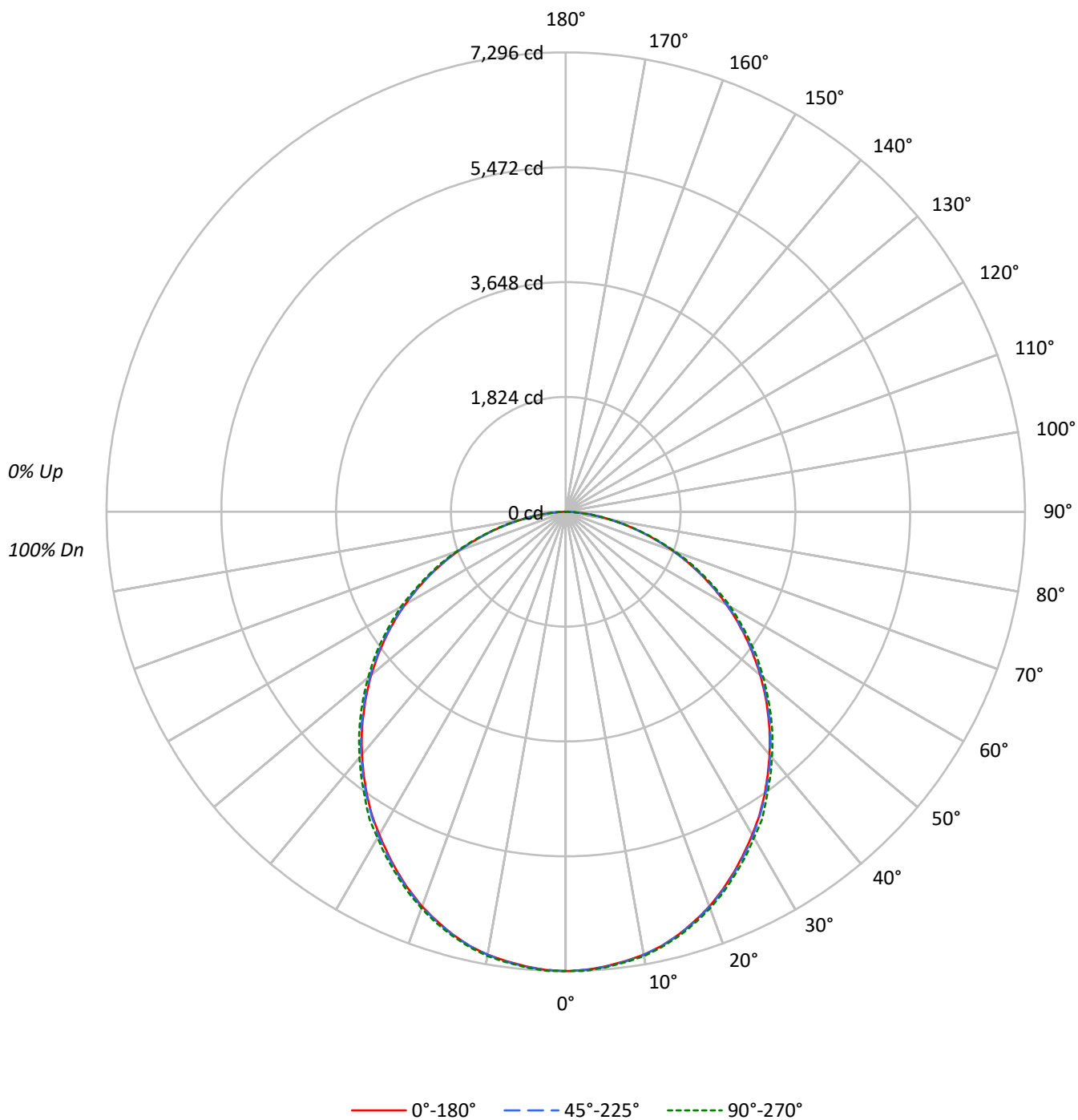
Lumens per Lamp: N/A
Luminaire Lumens: 19710.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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: P835097

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-30-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835097

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-30-120-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°	9815	9815	9815
5°	9789	9797	9809
10°	9758	9760	9789
15°	9677	9684	9711
20°	9552	9562	9597
25°	9379	9401	9444
30°	9203	9233	9290
35°	9035	9057	9129
40°	8844	8873	8953
45°	8650	8687	8777
50°	8441	8479	8577
55°	8202	8241	8375
60°	7929	7962	8140
65°	7583	7607	7751
70°	7118	7124	7278
75°	6470	6446	6595
80°	5559	5535	5628
85°	4313	4244	4267

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835097

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.3	3.5
10°-20°	1960.8	9.9
20°-30°	2919.0	14.8
30°-40°	3452.0	17.5
40°-50°	3524.0	17.9
50°-60°	3145.0	16.0
60°-70°	2368.8	12.0
70°-80°	1321.0	6.7
80°-90°	331.0	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°	5569.1	28.3
0°-40°	9021.1	45.8
0°-60°	15690.1	79.6
0°-90°	19710.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19710.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7295	7295	7295	7295	7295	
5°	7248	7261	7254	7255	7263	688
15°	6947	6955	6952	6958	6971	1958
25°	6318	6325	6333	6349	6361	2910
35°	5500	5494	5514	5535	5558	3440
45°	4546	4544	4566	4588	4612	3507
55°	3496	3492	3513	3537	3570	3125
65°	2382	2373	2389	2410	2435	2356
75°	1244	1234	1240	1246	1269	1319
85°	279	272	275	272	276	335
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835097

CATALOG NUMBER: ORLG-24-4-INS-OPL-LD4-6STD-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7294.6	7294.6	7294.6	7294.6	7294.6
2.5°	7282.6	7294.6	7279.5	7282.6	7296.1
5°	7247.8	7261.4	7253.9	7255.4	7262.9
7.5°	7199.5	7217.6	7207.0	7210.1	7217.6
10°	7142.1	7155.7	7143.6	7151.2	7164.8
12.5°	7060.5	7066.6	7060.5	7063.6	7078.7
15°	6947.3	6954.8	6951.8	6957.8	6971.4
17.5°	6814.4	6823.4	6821.9	6834.0	6844.6
20°	6670.9	6672.4	6678.4	6690.5	6702.6
22.5°	6501.7	6506.3	6512.3	6528.9	6541.0
25°	6317.5	6325.0	6332.6	6349.2	6361.3
27.5°	6122.7	6130.2	6140.8	6158.9	6178.5
30°	5923.3	5923.3	5942.9	5961.1	5979.2
32.5°	5722.4	5714.9	5733.0	5755.7	5799.5
35°	5500.4	5494.4	5514.0	5535.2	5557.8
37.5°	5269.4	5264.8	5287.5	5310.1	5331.3
40°	5035.3	5029.2	5051.9	5074.5	5097.2
42.5°	4795.1	4792.1	4813.3	4835.9	4860.1
45°	4545.9	4544.4	4565.6	4588.2	4612.4
47.5°	4292.2	4289.2	4310.3	4334.5	4355.6
50°	4032.4	4029.4	4050.6	4074.7	4097.4
52.5°	3765.1	3765.1	3784.8	3805.9	3840.6
55°	3496.3	3491.8	3512.9	3537.1	3570.3
57.5°	3224.4	3218.4	3238.0	3262.2	3292.4
60°	2946.6	2940.5	2958.6	2982.8	3025.1
62.5°	2665.6	2656.6	2674.7	2697.4	2723.0
65°	2381.7	2372.6	2389.3	2410.4	2434.6
67.5°	2096.3	2085.7	2102.3	2120.4	2143.1
70°	1809.3	1798.7	1810.8	1828.9	1850.1
72.5°	1523.9	1513.3	1523.9	1531.4	1557.1
75°	1244.5	1233.9	1239.9	1246.0	1268.6
77.5°	972.6	962.0	974.1	977.1	990.7
80°	717.4	706.8	714.4	715.9	726.4
82.5°	484.8	475.7	486.3	478.8	487.8
85°	279.4	271.8	274.9	271.8	276.4
87.5°	110.3	104.2	105.7	99.7	99.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)