

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: P835099

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1LO-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835099
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-LD4-1LO-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

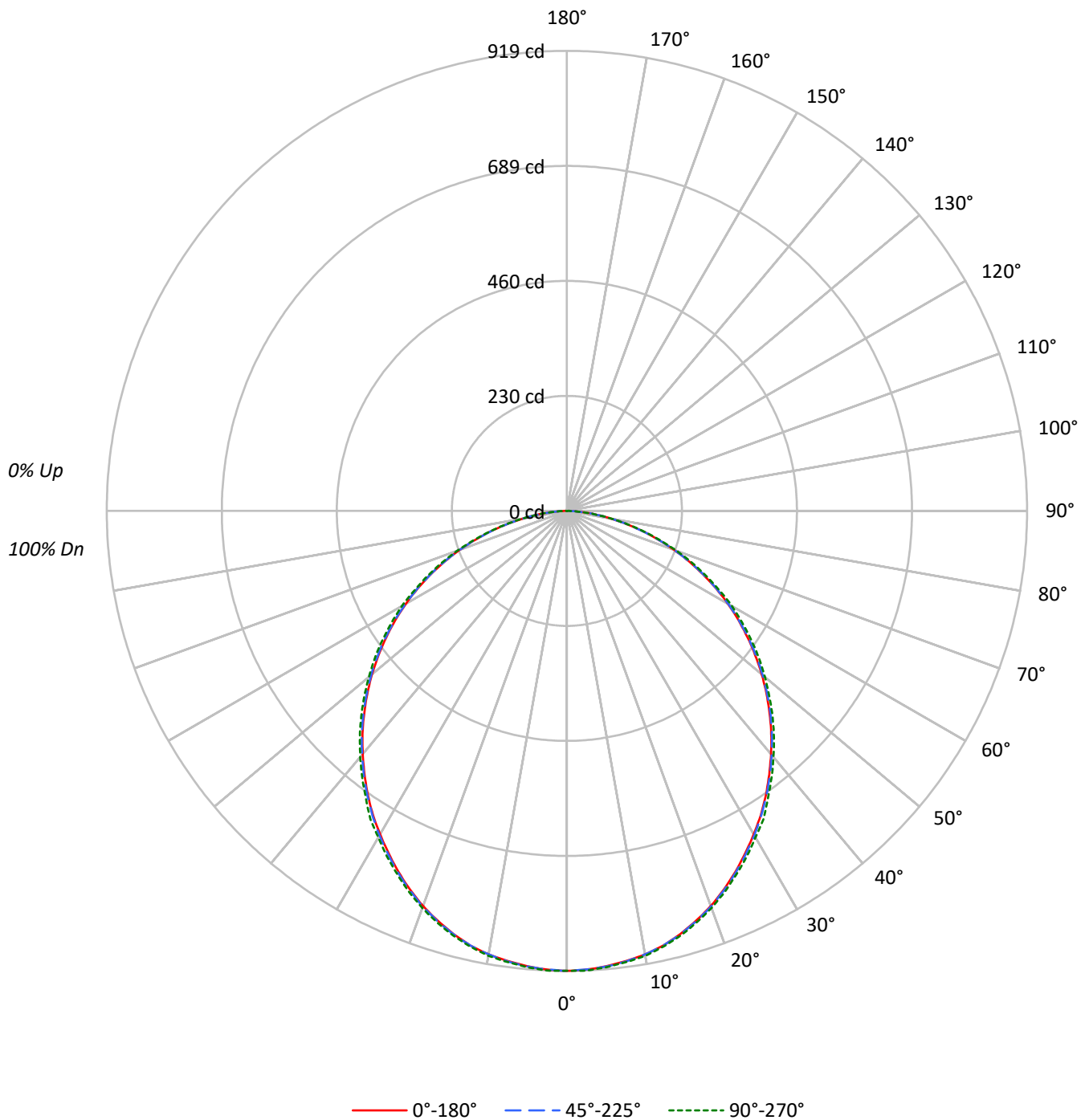
Lumens per Lamp: N/A
Luminaire Lumens: 2482.6 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	1236	1236	1236
5°	1233	1234	1236
10°	1229	1229	1233
15°	1219	1220	1223
20°	1203	1204	1209
25°	1181	1184	1189
30°	1159	1163	1170
35°	1138	1141	1150
40°	1114	1118	1128
45°	1090	1094	1105
50°	1063	1068	1080
55°	1033	1038	1055
60°	999	1003	1025
65°	955	958	976
70°	897	897	917
75°	815	812	831
80°	700	697	709
85°	543	534	537

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.5
10°-20°	247.0	9.9
20°-30°	367.6	14.8
30°-40°	434.8	17.5
40°-50°	443.9	17.9
50°-60°	396.1	16.0
60°-70°	298.4	12.0
70°-80°	166.4	6.7
80°-90°	41.7	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°	701.4	28.3
0°-40°	1136.2	45.8
0°-60°	1976.2	79.6
0°-90°	2482.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	913	915	914	914	915	87
15°	875	876	876	876	878	247
25°	796	797	798	800	801	367
35°	693	692	694	697	700	433
45°	573	572	575	578	581	442
55°	440	440	442	446	450	394
65°	300	299	301	304	307	297
75°	157	155	156	157	160	166
85°	35	34	35	34	35	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.8	918.8	918.8	918.8	918.8
2.5°	917.2	918.8	916.9	917.2	919.0
5°	912.9	914.6	913.6	913.8	914.8
7.5°	906.8	909.1	907.7	908.1	909.1
10°	899.6	901.3	899.7	900.7	902.4
12.5°	889.3	890.0	889.3	889.7	891.6
15°	875.0	876.0	875.6	876.4	878.1
17.5°	858.3	859.4	859.2	860.8	862.1
20°	840.2	840.4	841.2	842.7	844.2
22.5°	818.9	819.5	820.2	822.3	823.8
25°	795.7	796.6	797.6	799.7	801.2
27.5°	771.2	772.1	773.4	775.7	778.2
30°	746.0	746.0	748.5	750.8	753.1
32.5°	720.7	719.8	722.1	724.9	730.5
35°	692.8	692.0	694.5	697.2	700.0
37.5°	663.7	663.1	666.0	668.8	671.5
40°	634.2	633.4	636.3	639.1	642.0
42.5°	604.0	603.6	606.2	609.1	612.1
45°	572.6	572.4	575.0	577.9	580.9
47.5°	540.6	540.2	542.9	545.9	548.6
50°	507.9	507.5	510.2	513.2	516.1
52.5°	474.2	474.2	476.7	479.4	483.7
55°	440.4	439.8	442.5	445.5	449.7
57.5°	406.1	405.4	407.8	410.9	414.7
60°	371.1	370.4	372.6	375.7	381.0
62.5°	335.7	334.6	336.9	339.7	343.0
65°	300.0	298.8	300.9	303.6	306.6
67.5°	264.0	262.7	264.8	267.1	269.9
70°	227.9	226.6	228.1	230.4	233.0
72.5°	191.9	190.6	191.9	192.9	196.1
75°	156.7	155.4	156.2	156.9	159.8
77.5°	122.5	121.2	122.7	123.1	124.8
80°	90.4	89.0	90.0	90.2	91.5
82.5°	61.1	59.9	61.3	60.3	61.4
85°	35.2	34.2	34.6	34.2	34.8
87.5°	13.9	13.1	13.3	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)