

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: P835124

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835124
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-LD4-3STD-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

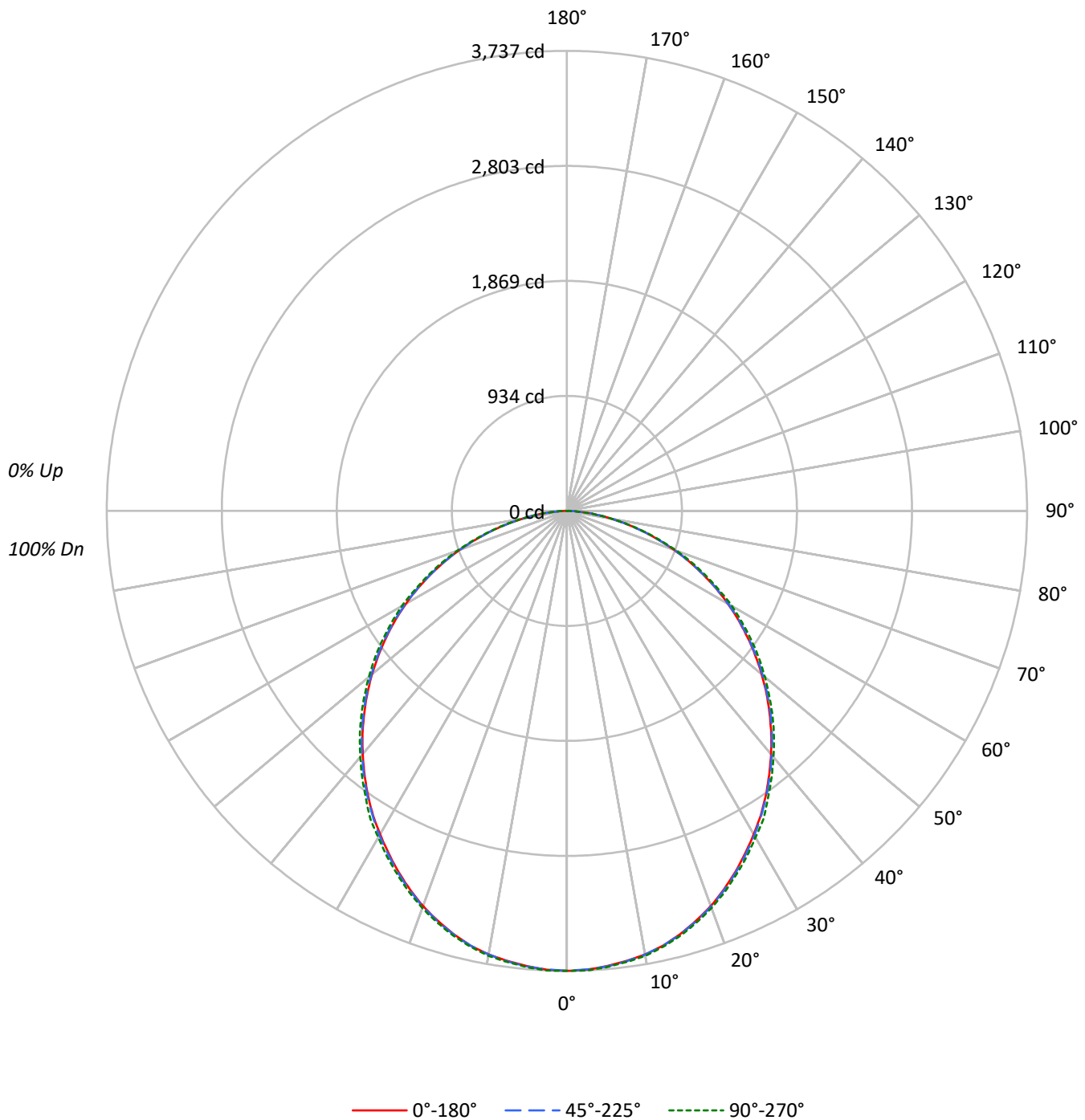
Lumens per Lamp: N/A
Luminaire Lumens: 10095.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5027	5027	5027
5°	5014	5018	5024
10°	4998	4999	5013
15°	4956	4959	4974
20°	4892	4897	4915
25°	4803	4815	4837
30°	4713	4729	4758
35°	4627	4639	4675
40°	4529	4544	4585
45°	4430	4449	4495
50°	4323	4342	4393
55°	4200	4220	4289
60°	4061	4078	4169
65°	3883	3896	3970
70°	3645	3648	3727
75°	3314	3301	3378
80°	2847	2835	2883
85°	2209	2174	2184

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	3.5
10°-20°	1004.2	9.9
20°-30°	1495.0	14.8
30°-40°	1768.0	17.5
40°-50°	1804.8	17.9
50°-60°	1610.7	16.0
60°-70°	1213.2	12.0
70°-80°	676.6	6.7
80°-90°	169.5	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°	2852.3	28.3
0°-40°	4620.2	45.8
0°-60°	8035.8	79.6
0°-90°	10095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3736	3736	3736	3736	3736	
5°	3712	3719	3715	3716	3720	353
15°	3558	3562	3560	3564	3570	1003
25°	3236	3239	3243	3252	3258	1491
35°	2817	2814	2824	2835	2846	1762
45°	2328	2327	2338	2350	2362	1796
55°	1791	1788	1799	1812	1828	1601
65°	1220	1215	1224	1234	1247	1206
75°	637	632	635	638	650	676
85°	143	139	141	139	142	172
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3736.0	3736.0	3736.0	3736.0	3736.0
2.5°	3729.8	3736.0	3728.2	3729.8	3736.8
5°	3712.0	3719.0	3715.1	3715.9	3719.7
7.5°	3687.3	3696.5	3691.1	3692.7	3696.5
10°	3657.9	3664.8	3658.6	3662.5	3669.5
12.5°	3616.1	3619.2	3616.1	3617.6	3625.4
15°	3558.1	3561.9	3560.4	3563.5	3570.5
17.5°	3490.0	3494.7	3493.9	3500.1	3505.5
20°	3416.5	3417.3	3420.4	3426.6	3432.8
22.5°	3329.9	3332.2	3335.3	3343.8	3350.0
25°	3235.5	3239.4	3243.3	3251.8	3258.0
27.5°	3135.7	3139.6	3145.0	3154.3	3164.4
30°	3033.6	3033.6	3043.7	3053.0	3062.3
32.5°	2930.8	2926.9	2936.2	2947.8	2970.2
35°	2817.1	2814.0	2824.0	2834.9	2846.5
37.5°	2698.7	2696.4	2708.0	2719.6	2730.4
40°	2578.8	2575.7	2587.3	2598.9	2610.5
42.5°	2455.8	2454.3	2465.1	2476.7	2489.1
45°	2328.2	2327.4	2338.3	2349.9	2362.3
47.5°	2198.3	2196.7	2207.6	2219.9	2230.8
50°	2065.2	2063.7	2074.5	2086.9	2098.5
52.5°	1928.3	1928.3	1938.4	1949.2	1967.0
55°	1790.6	1788.3	1799.1	1811.5	1828.5
57.5°	1651.4	1648.3	1658.4	1670.7	1686.2
60°	1509.1	1506.0	1515.3	1527.7	1549.3
62.5°	1365.2	1360.6	1369.9	1381.5	1394.6
65°	1219.8	1215.2	1223.7	1234.5	1246.9
67.5°	1073.6	1068.2	1076.7	1086.0	1097.6
70°	926.6	921.2	927.4	936.7	947.5
72.5°	780.5	775.0	780.5	784.3	797.5
75°	637.4	631.9	635.0	638.1	649.7
77.5°	498.1	492.7	498.9	500.5	507.4
80°	367.4	362.0	365.9	366.6	372.1
82.5°	248.3	243.7	249.1	245.2	249.8
85°	143.1	139.2	140.8	139.2	141.5
87.5°	56.5	53.4	54.1	51.1	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)