

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: P835144

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835144
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-LD4-4LO-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

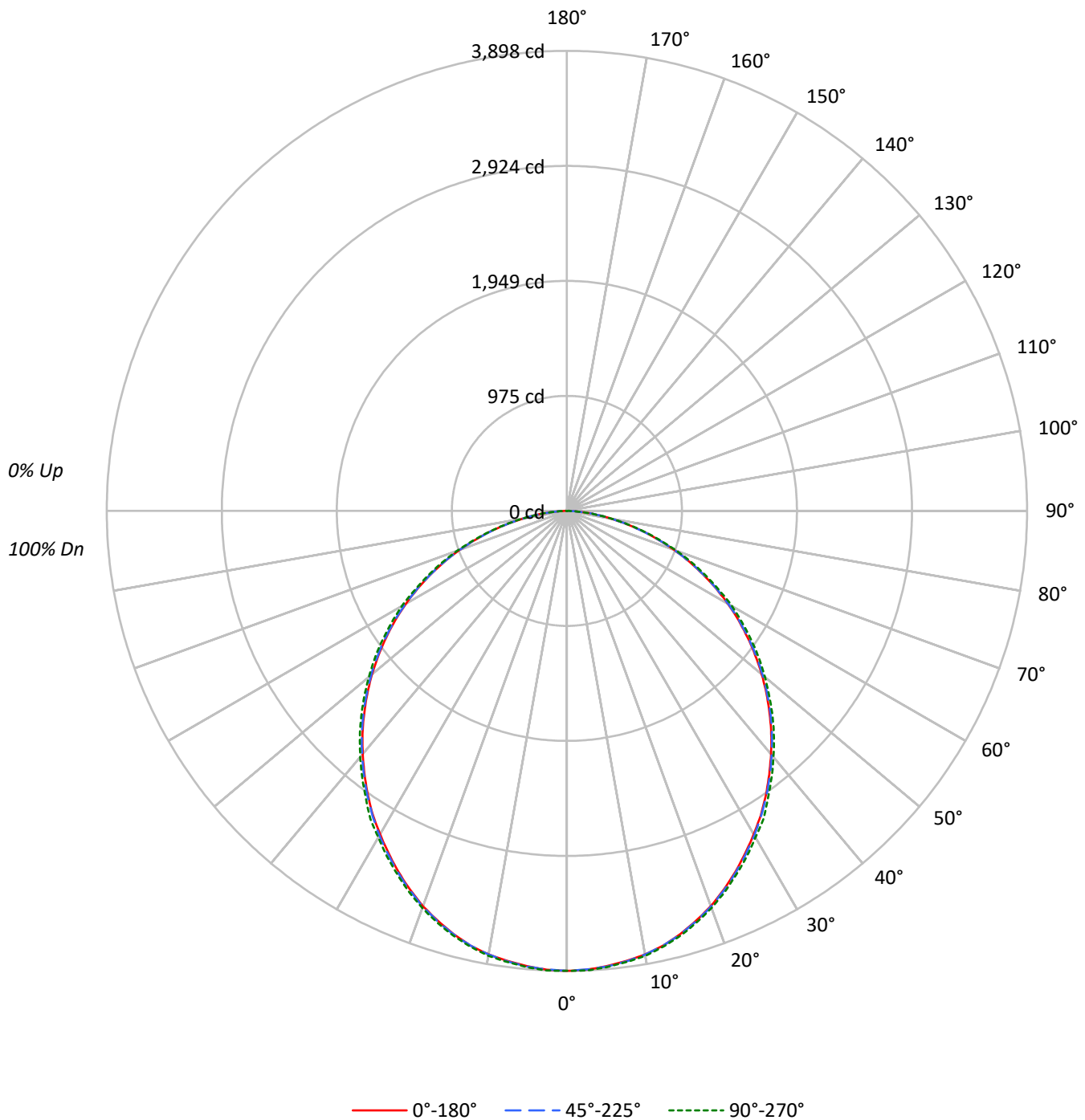
Lumens per Lamp: N/A
Luminaire Lumens: 10530.4 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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

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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	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°	5244	5244	5244
5°	5230	5234	5241
10°	5213	5214	5230
15°	5170	5173	5188
20°	5103	5109	5127
25°	5011	5022	5045
30°	4916	4933	4963
35°	4827	4839	4877
40°	4725	4740	4783
45°	4621	4641	4689
50°	4509	4530	4582
55°	4382	4402	4474
60°	4236	4253	4349
65°	4051	4064	4141
70°	3803	3806	3888
75°	3456	3444	3524
80°	2970	2957	3007
85°	2305	2266	2280

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	3.5
10°-20°	1047.5	9.9
20°-30°	1559.5	14.8
30°-40°	1844.2	17.5
40°-50°	1882.7	17.9
50°-60°	1680.2	16.0
60°-70°	1265.5	12.0
70°-80°	705.7	6.7
80°-90°	176.8	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°	2975.2	28.3
0°-40°	4819.5	45.8
0°-60°	8382.3	79.6
0°-90°	10530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10530.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3897	3897	3897	3897	3897	
5°	3872	3879	3875	3876	3880	368
15°	3712	3716	3714	3717	3724	1046
25°	3375	3379	3383	3392	3398	1555
35°	2939	2935	2946	2957	2969	1838
45°	2429	2428	2439	2451	2464	1873
55°	1868	1865	1877	1890	1907	1670
65°	1272	1268	1276	1288	1301	1258
75°	665	659	662	666	678	705
85°	149	145	147	145	148	179
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3897.1	3897.1	3897.1	3897.1	3897.1
2.5°	3890.6	3897.1	3889.0	3890.6	3897.9
5°	3872.1	3879.3	3875.3	3876.1	3880.1
7.5°	3846.3	3855.9	3850.3	3851.9	3855.9
10°	3815.6	3822.9	3816.4	3820.4	3827.7
12.5°	3772.0	3775.3	3772.0	3773.6	3781.7
15°	3711.5	3715.5	3713.9	3717.2	3724.4
17.5°	3640.5	3645.4	3644.5	3651.0	3656.6
20°	3563.9	3564.7	3567.9	3574.3	3580.8
22.5°	3473.5	3475.9	3479.1	3488.0	3494.5
25°	3375.1	3379.1	3383.1	3392.0	3398.5
27.5°	3271.0	3275.0	3280.7	3290.3	3300.8
30°	3164.5	3164.5	3175.0	3184.6	3194.3
32.5°	3057.2	3053.1	3062.8	3074.9	3098.3
35°	2938.6	2935.3	2945.8	2957.1	2969.2
37.5°	2815.1	2812.7	2824.8	2836.9	2848.2
40°	2690.0	2686.8	2698.9	2711.0	2723.1
42.5°	2561.8	2560.1	2571.4	2583.5	2596.4
45°	2428.6	2427.8	2439.1	2451.2	2464.1
47.5°	2293.1	2291.5	2302.8	2315.7	2327.0
50°	2154.3	2152.7	2164.0	2176.9	2189.0
52.5°	2011.5	2011.5	2022.0	2033.3	2051.8
55°	1867.9	1865.4	1876.7	1889.6	1907.4
57.5°	1722.6	1719.4	1729.9	1742.8	1758.9
60°	1574.2	1570.9	1580.6	1593.5	1616.1
62.5°	1424.1	1419.3	1428.9	1441.0	1454.8
65°	1272.4	1267.6	1276.4	1287.7	1300.6
67.5°	1119.9	1114.3	1123.1	1132.8	1144.9
70°	966.6	961.0	967.4	977.1	988.4
72.5°	814.1	808.5	814.1	818.1	831.9
75°	664.8	659.2	662.4	665.7	677.8
77.5°	519.6	514.0	520.4	522.0	529.3
80°	383.3	377.6	381.6	382.4	388.1
82.5°	259.0	254.2	259.8	255.8	260.6
85°	149.3	145.2	146.8	145.2	147.7
87.5°	58.9	55.7	56.5	53.3	53.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)