

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: P834998

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834998
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-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

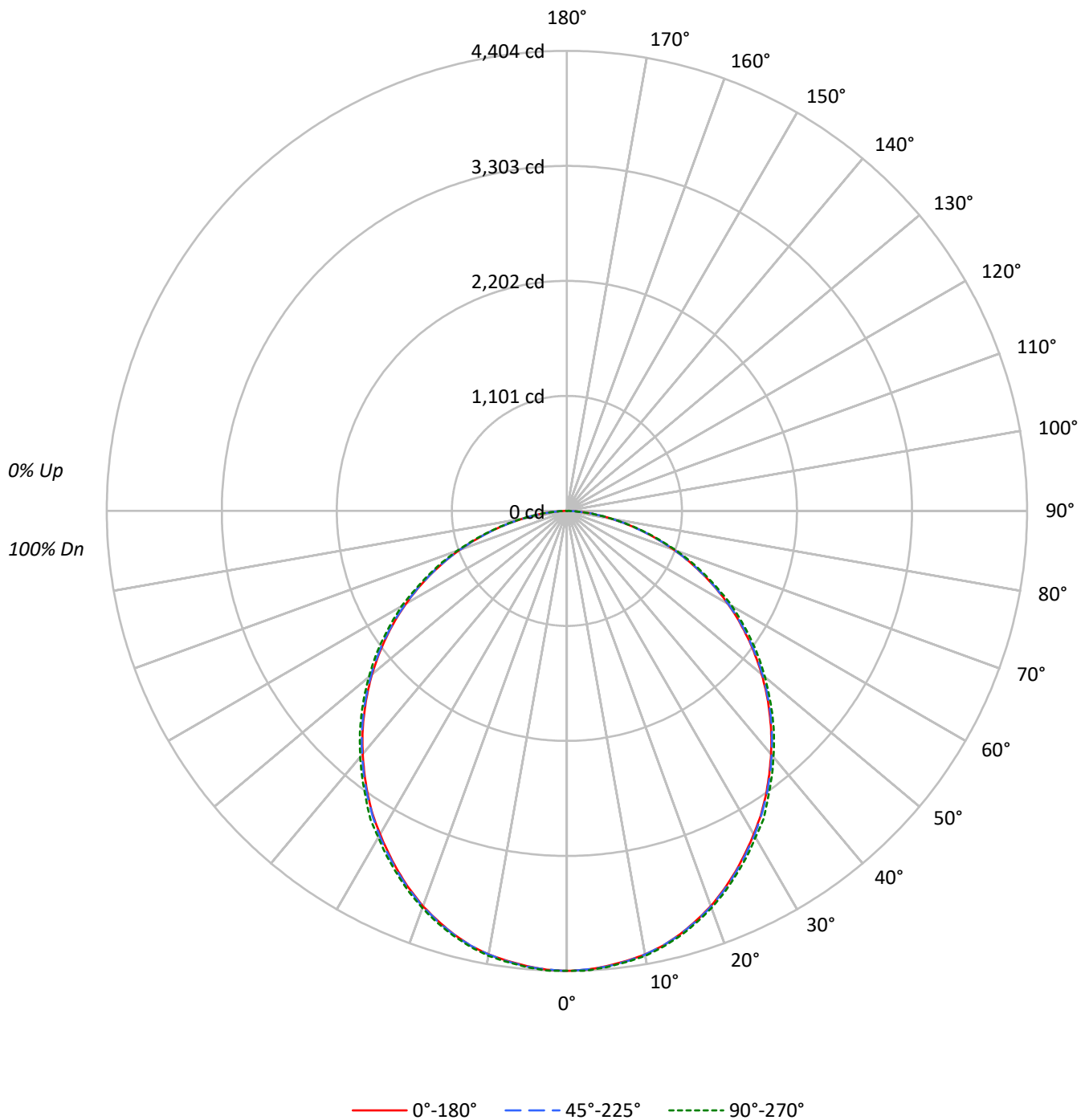
Lumens per Lamp: N/A
Luminaire Lumens: 11897.7 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5924	5924	5924
5°	5909	5914	5921
10°	5890	5891	5909
15°	5841	5845	5862
20°	5765	5772	5793
25°	5661	5675	5700
30°	5555	5573	5607
35°	5453	5467	5510
40°	5338	5356	5404
45°	5221	5244	5298
50°	5095	5118	5177
55°	4951	4974	5055
60°	4786	4806	4914
65°	4577	4592	4678
70°	4296	4300	4393
75°	3905	3891	3981
80°	3355	3341	3398
85°	2603	2561	2575

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	3.5
10°-20°	1183.6	9.9
20°-30°	1761.9	14.8
30°-40°	2083.7	17.5
40°-50°	2127.1	17.9
50°-60°	1898.4	16.0
60°-70°	1429.8	12.0
70°-80°	797.4	6.7
80°-90°	199.8	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°	3361.6	28.3
0°-40°	5445.3	45.8
0°-60°	9470.7	79.6
0°-90°	11897.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11897.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4403	4403	4403	4403	4403	
5°	4375	4383	4378	4379	4384	416
15°	4193	4198	4196	4200	4208	1182
25°	3813	3818	3822	3832	3840	1757
35°	3320	3316	3328	3341	3355	2076
45°	2744	2743	2756	2770	2784	2117
55°	2110	2108	2120	2135	2155	1886
65°	1438	1432	1442	1455	1470	1422
75°	751	745	748	752	766	796
85°	169	164	166	164	167	202
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4403.1	4403.1	4403.1	4403.1	4403.1
2.5°	4395.8	4403.1	4394.0	4395.8	4404.0
5°	4374.9	4383.1	4378.5	4379.4	4384.0
7.5°	4345.7	4356.6	4350.2	4352.1	4356.6
10°	4311.0	4319.3	4312.0	4316.5	4324.7
12.5°	4261.8	4265.5	4261.8	4263.6	4272.8
15°	4193.4	4198.0	4196.2	4199.8	4208.0
17.5°	4113.2	4118.7	4117.8	4125.1	4131.5
20°	4026.6	4027.5	4031.2	4038.5	4045.8
22.5°	3924.5	3927.3	3930.9	3940.9	3948.2
25°	3813.3	3817.9	3822.4	3832.4	3839.7
27.5°	3695.7	3700.3	3706.6	3717.6	3729.4
30°	3575.4	3575.4	3587.2	3598.2	3609.1
32.5°	3454.1	3449.6	3460.5	3474.2	3500.6
35°	3320.1	3316.5	3328.3	3341.1	3354.8
37.5°	3180.6	3177.9	3191.6	3205.3	3218.0
40°	3039.3	3035.7	3049.4	3063.0	3076.7
42.5°	2894.4	2892.6	2905.3	2919.0	2933.6
45°	2744.0	2743.1	2755.8	2769.5	2784.1
47.5°	2590.8	2589.0	2601.8	2616.3	2629.1
50°	2434.0	2432.2	2445.0	2459.5	2473.2
52.5°	2272.7	2272.7	2284.5	2297.3	2318.2
55°	2110.4	2107.7	2120.4	2135.0	2155.1
57.5°	1946.3	1942.7	1954.5	1969.1	1987.3
60°	1778.6	1774.9	1785.9	1800.4	1826.0
62.5°	1609.0	1603.5	1614.5	1628.2	1643.6
65°	1437.6	1432.2	1442.2	1454.9	1469.5
67.5°	1265.3	1258.9	1269.0	1279.9	1293.6
70°	1092.1	1085.7	1093.0	1104.0	1116.7
72.5°	919.8	913.4	919.8	924.4	939.9
75°	751.2	744.8	748.4	752.1	765.8
77.5°	587.1	580.7	588.0	589.8	598.0
80°	433.0	426.6	431.2	432.1	438.5
82.5°	292.6	287.2	293.5	289.0	294.5
85°	168.6	164.1	165.9	164.1	166.8
87.5°	66.5	62.9	63.8	60.2	60.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)