

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: P834468

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3HI-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

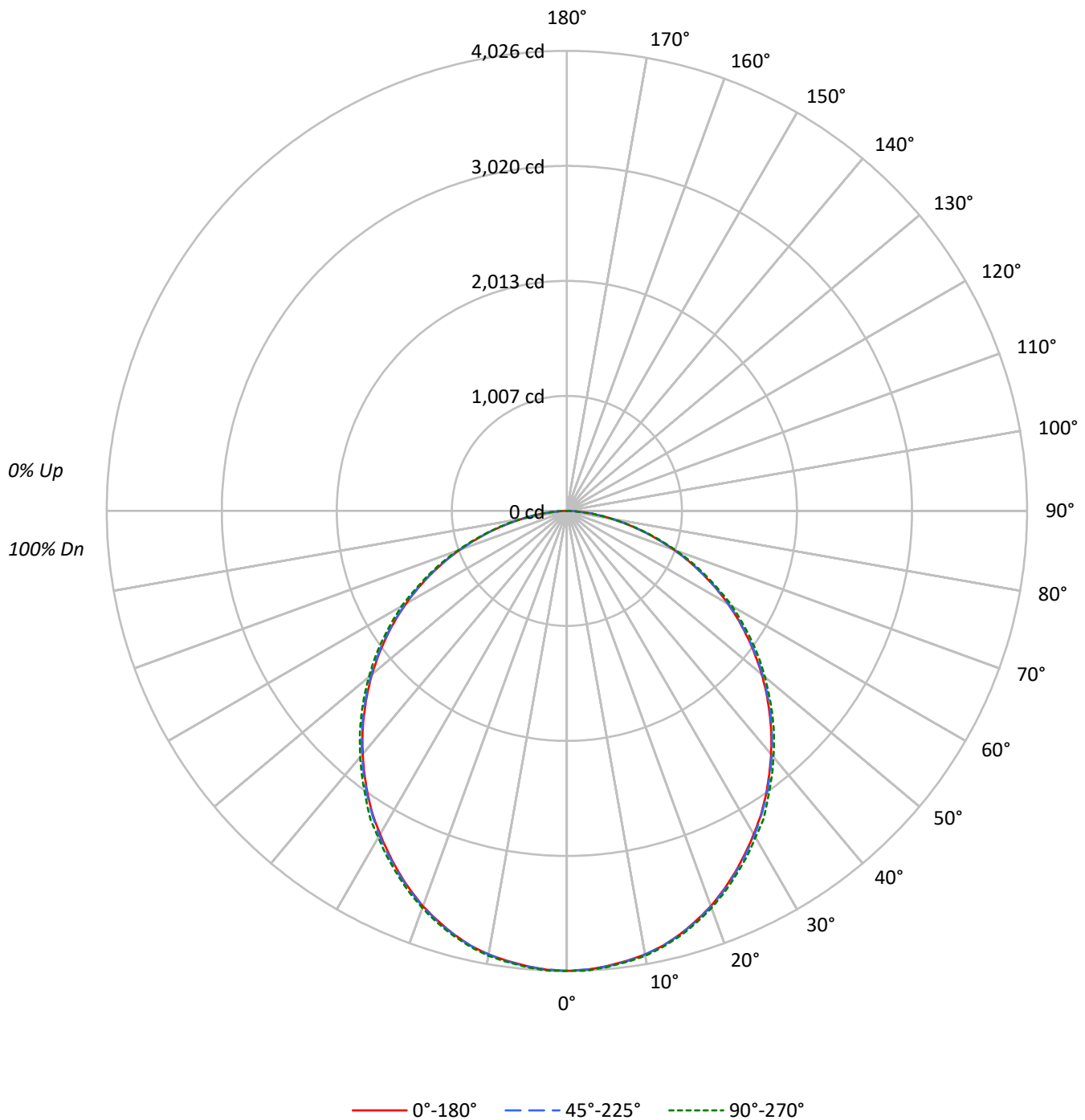
Lumens per Lamp: N/A
Luminaire Lumens: 10876.4 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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
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°	10831	10831	10831
5°	10803	10812	10826
10°	10769	10771	10803
15°	10680	10687	10717
20°	10541	10553	10591
25°	10350	10375	10422
30°	10156	10190	10252
35°	9971	9995	10075
40°	9760	9792	9880
45°	9546	9587	9686
50°	9315	9357	9465
55°	9051	9094	9243
60°	8751	8787	8984
65°	8368	8395	8554
70°	7855	7862	8032
75°	7140	7114	7278
80°	6134	6109	6211
85°	4761	4684	4709

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	3.5
10°-20°	1082.0	9.9
20°-30°	1610.7	14.8
30°-40°	1904.8	17.5
40°-50°	1944.5	17.9
50°-60°	1735.4	16.0
60°-70°	1307.1	12.0
70°-80°	728.9	6.7
80°-90°	182.6	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°	3073.0	28.3
0°-40°	4977.8	45.8
0°-60°	8657.7	79.6
0°-90°	10876.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10876.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4025	4025	4025	4025	4025	
5°	3999	4007	4003	4004	4008	380
15°	3834	3838	3836	3839	3847	1080
25°	3486	3490	3494	3503	3510	1606
35°	3035	3032	3043	3054	3067	1898
45°	2508	2508	2519	2532	2545	1935
55°	1929	1927	1938	1952	1970	1724
65°	1314	1309	1318	1330	1343	1300
75°	687	681	684	688	700	728
85°	154	150	152	150	152	185
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4025.1	4025.1	4025.1	4025.1	4025.1
2.5°	4018.5	4025.1	4016.8	4018.5	4026.0
5°	3999.3	4006.8	4002.6	4003.5	4007.6
7.5°	3972.6	3982.6	3976.8	3978.5	3982.6
10°	3941.0	3948.5	3941.8	3946.0	3953.5
12.5°	3896.0	3899.3	3896.0	3897.6	3906.0
15°	3833.5	3837.6	3836.0	3839.3	3846.8
17.5°	3760.1	3765.1	3764.3	3771.0	3776.8
20°	3681.0	3681.8	3685.1	3691.8	3698.5
22.5°	3587.6	3590.1	3593.4	3602.6	3609.3
25°	3485.9	3490.1	3494.3	3503.4	3510.1
27.5°	3378.4	3382.6	3388.4	3398.4	3409.3
30°	3268.4	3268.4	3279.3	3289.3	3299.3
32.5°	3157.6	3153.4	3163.4	3175.9	3200.1
35°	3035.1	3031.8	3042.6	3054.3	3066.8
37.5°	2907.6	2905.1	2917.6	2930.1	2941.8
40°	2778.4	2775.1	2787.6	2800.1	2812.6
42.5°	2645.9	2644.3	2655.9	2668.4	2681.8
45°	2508.4	2507.6	2519.2	2531.7	2545.1
47.5°	2368.4	2366.7	2378.4	2391.7	2403.4
50°	2225.1	2223.4	2235.1	2248.4	2260.9
52.5°	2077.6	2077.6	2088.4	2100.1	2119.2
55°	1929.2	1926.7	1938.4	1951.7	1970.1
57.5°	1779.2	1775.9	1786.7	1800.1	1816.7
60°	1625.9	1622.6	1632.6	1645.9	1669.2
62.5°	1470.9	1465.9	1475.9	1488.4	1502.5
65°	1314.2	1309.2	1318.4	1330.0	1343.4
67.5°	1156.7	1150.9	1160.0	1170.0	1182.5
70°	998.4	992.5	999.2	1009.2	1020.9
72.5°	840.9	835.0	840.9	845.0	859.2
75°	686.7	680.9	684.2	687.5	700.0
77.5°	536.7	530.9	537.5	539.2	546.7
80°	395.8	390.0	394.2	395.0	400.8
82.5°	267.5	262.5	268.3	264.2	269.2
85°	154.2	150.0	151.7	150.0	152.5
87.5°	60.8	57.5	58.3	55.0	55.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)