

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: P835638

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835638
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-6HI-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

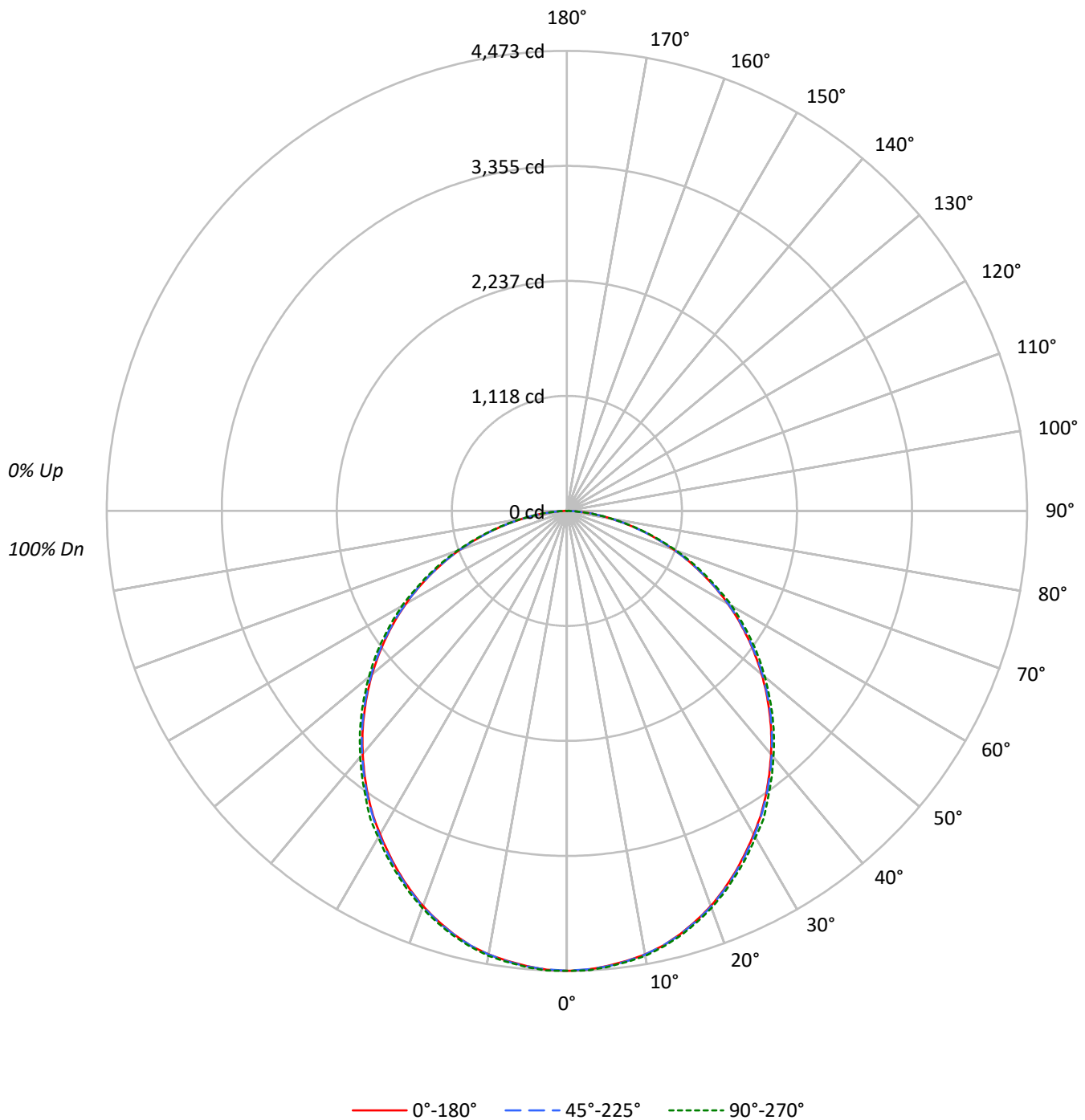
Lumens per Lamp: N/A
Luminaire Lumens: 12083.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	12034	12034	12034
5°	12002	12012	12027
10°	11964	11966	12002
15°	11865	11872	11906
20°	11711	11724	11766
25°	11499	11526	11579
30°	11283	11320	11389
35°	11077	11104	11193
40°	10843	10879	10977
45°	10605	10651	10760
50°	10349	10395	10515
55°	10055	10103	10268
60°	9721	9761	9980
65°	9296	9326	9503
70°	8726	8734	8923
75°	7932	7903	8086
80°	6815	6786	6901
85°	5289	5203	5230

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.6	3.5
10°-20°	1202.0	9.9
20°-30°	1789.4	14.8
30°-40°	2116.2	17.5
40°-50°	2160.3	17.9
50°-60°	1927.9	16.0
60°-70°	1452.1	12.0
70°-80°	809.8	6.7
80°-90°	202.9	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°	3414.0	28.3
0°-40°	5530.2	45.8
0°-60°	9618.4	79.6
0°-90°	12083.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12083.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4472	4472	4472	4472	4472	
5°	4443	4451	4447	4448	4452	422
15°	4259	4264	4262	4265	4274	1200
25°	3873	3877	3882	3892	3900	1784
35°	3372	3368	3380	3393	3407	2109
45°	2787	2786	2799	2813	2828	2150
55°	2143	2140	2154	2168	2189	1916
65°	1460	1454	1465	1478	1492	1444
75°	763	756	760	764	778	809
85°	171	167	168	167	169	206
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4471.8	4471.8	4471.8	4471.8	4471.8
2.5°	4464.4	4471.8	4462.5	4464.4	4472.7
5°	4443.1	4451.4	4446.8	4447.7	4452.3
7.5°	4413.4	4424.6	4418.1	4419.9	4424.6
10°	4378.3	4386.6	4379.2	4383.8	4392.2
12.5°	4328.3	4332.0	4328.3	4330.1	4339.4
15°	4258.8	4263.5	4261.6	4265.3	4273.6
17.5°	4177.4	4182.9	4182.0	4189.4	4195.9
20°	4089.4	4090.3	4094.0	4101.4	4108.8
22.5°	3985.7	3988.5	3992.2	4002.4	4009.8
25°	3872.8	3877.4	3882.0	3892.2	3899.6
27.5°	3753.3	3758.0	3764.4	3775.5	3787.6
30°	3631.1	3631.1	3643.2	3654.3	3665.4
32.5°	3508.0	3503.4	3514.5	3528.3	3555.2
35°	3371.9	3368.2	3380.2	3393.2	3407.1
37.5°	3230.2	3227.5	3241.3	3255.2	3268.2
40°	3086.7	3083.0	3096.9	3110.8	3124.7
42.5°	2939.5	2937.7	2950.6	2964.5	2979.3
45°	2786.8	2785.8	2798.8	2812.7	2827.5
47.5°	2631.2	2629.4	2642.3	2657.1	2670.1
50°	2472.0	2470.1	2483.1	2497.9	2511.8
52.5°	2308.1	2308.1	2320.1	2333.1	2354.4
55°	2143.3	2140.5	2153.5	2168.3	2188.7
57.5°	1976.7	1972.9	1985.0	1999.8	2018.3
60°	1806.3	1802.6	1813.7	1828.5	1854.4
62.5°	1634.1	1628.5	1639.6	1653.5	1669.3
65°	1460.0	1454.5	1464.7	1477.6	1492.4
67.5°	1285.1	1278.6	1288.8	1299.9	1313.8
70°	1109.1	1102.7	1110.1	1121.2	1134.1
72.5°	934.2	927.7	934.2	938.8	954.5
75°	762.9	756.4	760.1	763.8	777.7
77.5°	596.2	589.8	597.2	599.0	607.3
80°	439.8	433.3	437.9	438.8	445.3
82.5°	297.2	291.6	298.1	293.5	299.0
85°	171.3	166.6	168.5	166.6	169.4
87.5°	67.6	63.9	64.8	61.1	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)