

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: P834964

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4LO-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834964
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

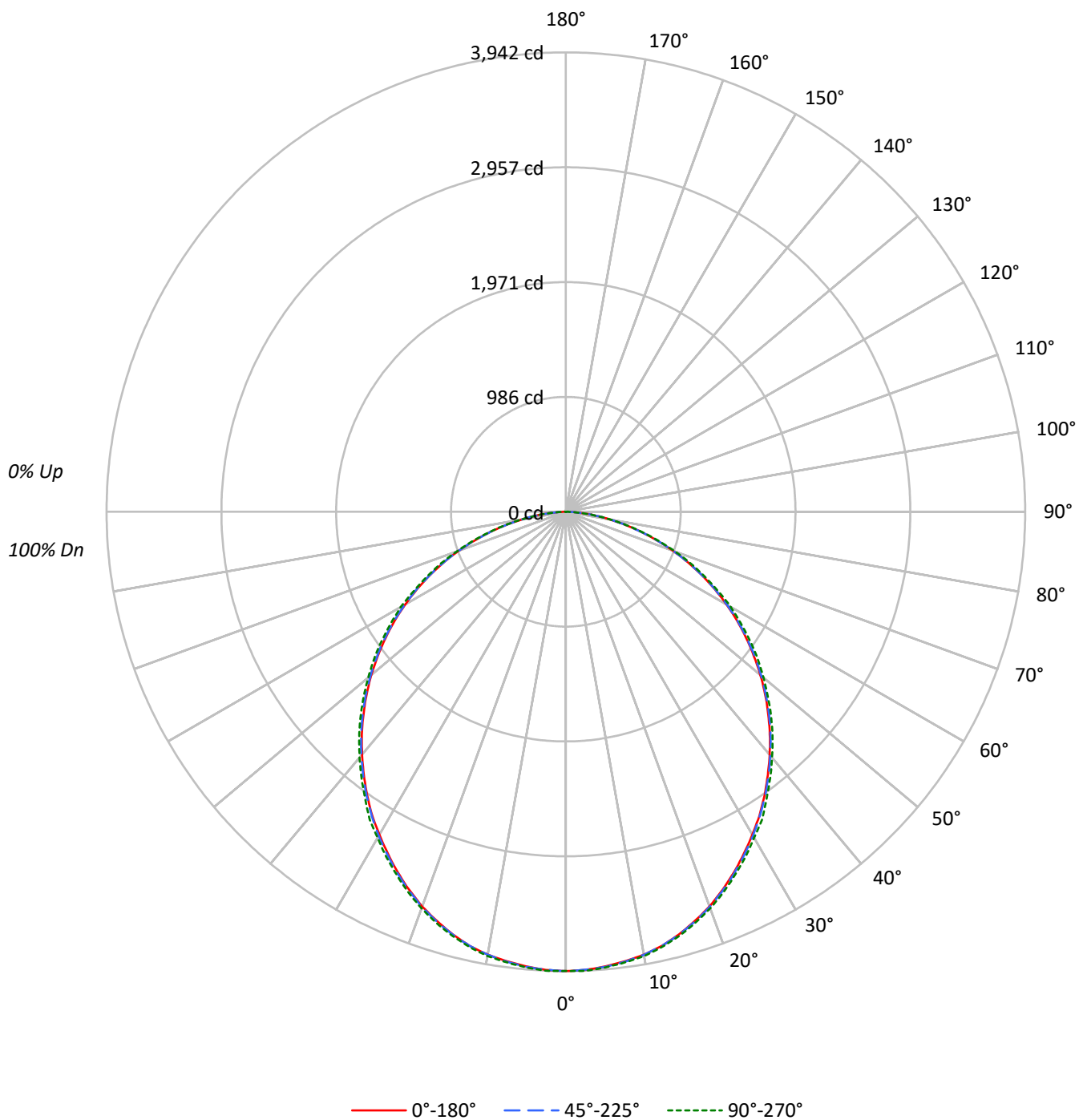
Lumens per Lamp: N/A
Luminaire Lumens: 10650.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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°	5303	5303	5303
5°	5289	5294	5300
10°	5272	5273	5289
15°	5229	5232	5247
20°	5161	5167	5185
25°	5067	5080	5103
30°	4972	4989	5019
35°	4881	4894	4933
40°	4778	4794	4837
45°	4674	4694	4742
50°	4561	4581	4634
55°	4431	4453	4525
60°	4284	4302	4398
65°	4097	4110	4188
70°	3846	3849	3932
75°	3496	3483	3564
80°	3003	2991	3041
85°	2331	2293	2305

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	3.5
10°-20°	1059.4	9.9
20°-30°	1577.2	14.8
30°-40°	1865.2	17.5
40°-50°	1904.1	17.9
50°-60°	1699.3	16.0
60°-70°	1279.9	12.0
70°-80°	713.8	6.7
80°-90°	178.8	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°	3009.1	28.3
0°-40°	4874.2	45.8
0°-60°	8477.6	79.6
0°-90°	10650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3941	3941	3941	3941	3941	
5°	3916	3923	3919	3920	3924	372
15°	3754	3758	3756	3759	3767	1058
25°	3413	3418	3422	3430	3437	1573
35°	2972	2969	2979	2991	3003	1858
45°	2456	2455	2467	2479	2492	1895
55°	1889	1887	1898	1911	1929	1689
65°	1287	1282	1291	1302	1315	1273
75°	672	667	670	673	686	713
85°	151	147	148	147	149	181
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3941.4	3941.4	3941.4	3941.4	3941.4
2.5°	3934.8	3941.4	3933.2	3934.8	3942.2
5°	3916.1	3923.4	3919.3	3920.2	3924.2
7.5°	3890.0	3899.8	3894.0	3895.7	3899.8
10°	3859.0	3866.3	3859.8	3863.9	3871.2
12.5°	3814.9	3818.2	3814.9	3816.5	3824.7
15°	3753.7	3757.8	3756.1	3759.4	3766.7
17.5°	3681.9	3686.8	3686.0	3692.5	3698.2
20°	3604.4	3605.2	3608.4	3615.0	3621.5
22.5°	3513.0	3515.4	3518.7	3527.7	3534.2
25°	3413.4	3417.5	3421.6	3430.5	3437.1
27.5°	3308.1	3312.2	3317.9	3327.7	3338.3
30°	3200.4	3200.4	3211.0	3220.8	3230.6
32.5°	3091.9	3087.8	3097.6	3109.9	3133.5
35°	2971.9	2968.7	2979.3	2990.7	3003.0
37.5°	2847.1	2844.6	2856.9	2869.1	2880.5
40°	2720.6	2717.3	2729.6	2741.8	2754.1
42.5°	2590.9	2589.2	2600.7	2612.9	2626.0
45°	2456.2	2455.4	2466.8	2479.1	2492.1
47.5°	2319.1	2317.5	2328.9	2342.0	2353.4
50°	2178.8	2177.1	2188.6	2201.6	2213.9
52.5°	2034.3	2034.3	2044.9	2056.4	2075.1
55°	1889.1	1886.6	1898.1	1911.1	1929.1
57.5°	1742.2	1738.9	1749.5	1762.6	1778.9
60°	1592.1	1588.8	1598.6	1611.6	1634.5
62.5°	1440.3	1435.4	1445.2	1457.4	1471.3
65°	1286.9	1282.0	1290.9	1302.4	1315.4
67.5°	1132.6	1126.9	1135.9	1145.7	1157.9
70°	977.6	971.9	978.4	988.2	999.6
72.5°	823.4	817.7	823.4	827.4	841.3
75°	672.4	666.7	670.0	673.2	685.5
77.5°	525.5	519.8	526.3	528.0	535.3
80°	387.6	381.9	386.0	386.8	392.5
82.5°	261.9	257.0	262.8	258.7	263.6
85°	151.0	146.9	148.5	146.9	149.3
87.5°	59.6	56.3	57.1	53.9	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)