

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: P835746

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-30-120-EDD-90**

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P835746
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-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

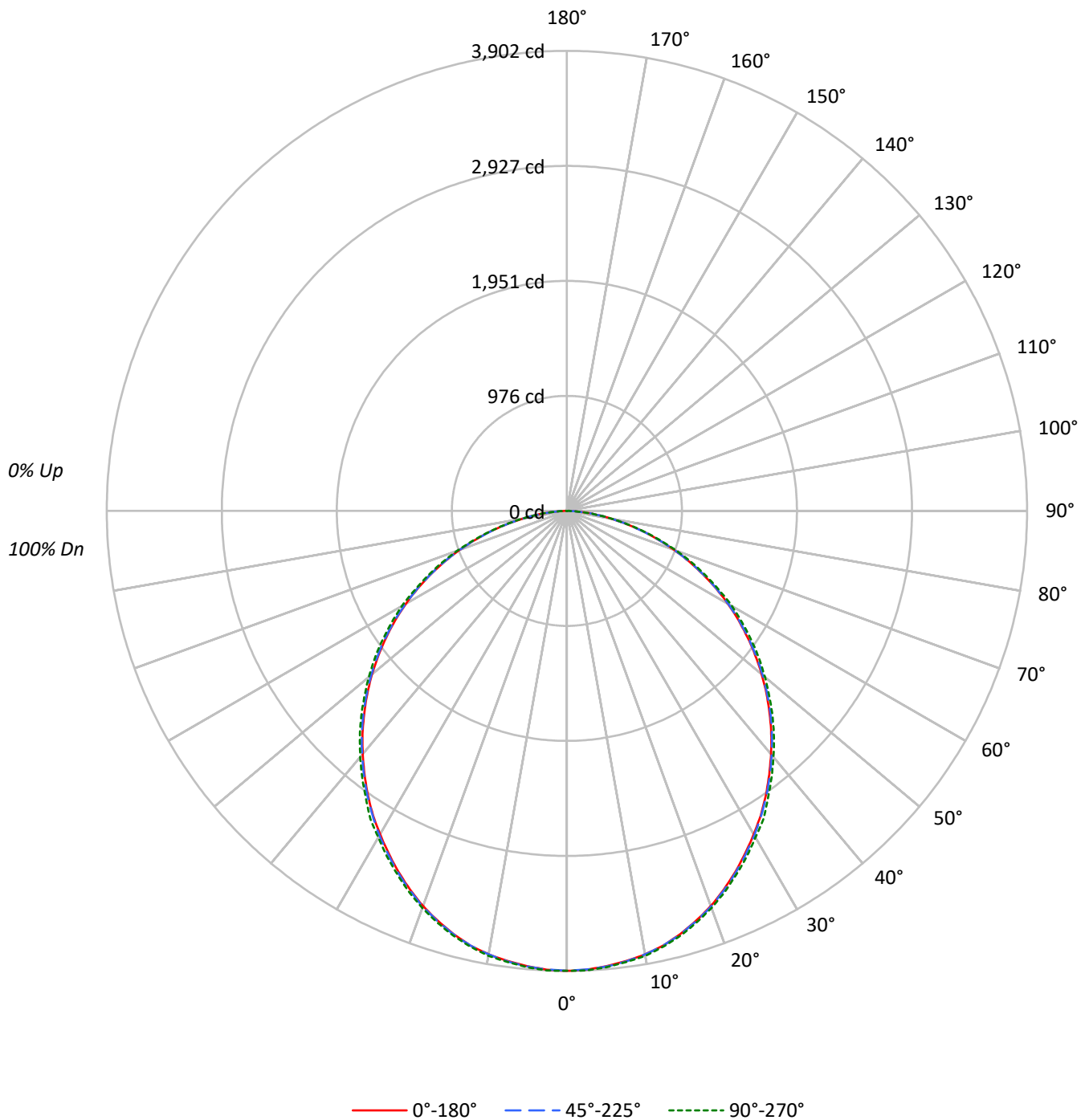
Lumens per Lamp: N/A
Luminaire Lumens: 10540.7 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10497	10497	10497
5°	10470	10478	10491
10°	10436	10438	10470
15°	10350	10357	10386
20°	10216	10227	10264
25°	10031	10055	10101
30°	9843	9875	9936
35°	9663	9687	9764
40°	9459	9490	9575
45°	9251	9291	9387
50°	9028	9068	9173
55°	8772	8814	8958
60°	8480	8515	8706
65°	8110	8136	8290
70°	7613	7619	7784
75°	6919	6894	7053
80°	5945	5920	6020
85°	4613	4539	4563

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	3.5
10°-20°	1048.6	9.9
20°-30°	1561.0	14.8
30°-40°	1846.0	17.5
40°-50°	1884.5	17.9
50°-60°	1681.8	16.0
60°-70°	1266.7	12.0
70°-80°	706.4	6.7
80°-90°	177.0	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°	2978.2	28.3
0°-40°	4824.2	45.8
0°-60°	8390.5	79.6
0°-90°	10540.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10540.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3901	3901	3901	3901	3901	
5°	3876	3883	3879	3880	3884	368
15°	3715	3719	3718	3721	3728	1047
25°	3378	3382	3386	3395	3402	1556
35°	2941	2938	2949	2960	2972	1839
45°	2431	2430	2442	2454	2466	1875
55°	1870	1867	1879	1892	1909	1671
65°	1274	1269	1278	1289	1302	1260
75°	666	660	663	666	678	706
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°	3900.9	3900.9	3900.9	3900.9	3900.9
2.5°	3894.4	3900.9	3892.8	3894.4	3901.7
5°	3875.9	3883.1	3879.1	3879.9	3883.9
7.5°	3850.0	3859.7	3854.1	3855.7	3859.7
10°	3819.3	3826.6	3820.1	3824.2	3831.5
12.5°	3775.7	3779.0	3775.7	3777.3	3785.4
15°	3715.1	3719.2	3717.6	3720.8	3728.1
17.5°	3644.1	3648.9	3648.1	3654.6	3660.2
20°	3567.4	3568.2	3571.4	3577.9	3584.3
22.5°	3476.9	3479.3	3482.5	3491.4	3497.9
25°	3378.4	3382.4	3386.4	3395.3	3401.8
27.5°	3274.2	3278.2	3283.9	3293.6	3304.1
30°	3167.6	3167.6	3178.1	3187.8	3197.5
32.5°	3060.2	3056.1	3065.8	3077.9	3101.3
35°	2941.4	2938.2	2948.7	2960.0	2972.1
37.5°	2817.9	2815.4	2827.6	2839.7	2851.0
40°	2692.7	2689.4	2701.6	2713.7	2725.8
42.5°	2564.3	2562.6	2574.0	2586.1	2599.0
45°	2431.0	2430.2	2441.5	2453.6	2466.5
47.5°	2295.3	2293.7	2305.0	2317.9	2329.2
50°	2156.4	2154.8	2166.1	2179.0	2191.1
52.5°	2013.4	2013.4	2023.9	2035.3	2053.8
55°	1869.7	1867.3	1878.6	1891.5	1909.3
57.5°	1724.3	1721.1	1731.6	1744.5	1760.7
60°	1575.7	1572.5	1582.2	1595.1	1617.7
62.5°	1425.5	1420.6	1430.3	1442.4	1456.2
65°	1273.7	1268.8	1277.7	1289.0	1301.9
67.5°	1121.0	1115.4	1124.2	1133.9	1146.0
70°	967.6	961.9	968.4	978.1	989.4
72.5°	814.9	809.3	814.9	818.9	832.7
75°	665.5	659.8	663.1	666.3	678.4
77.5°	520.1	514.5	520.9	522.5	529.8
80°	383.6	378.0	382.0	382.8	388.5
82.5°	259.3	254.4	260.1	256.0	260.9
85°	149.4	145.4	147.0	145.4	147.8
87.5°	59.0	55.7	56.5	53.3	53.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)