

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: P835019

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835019
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-LD4-4STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

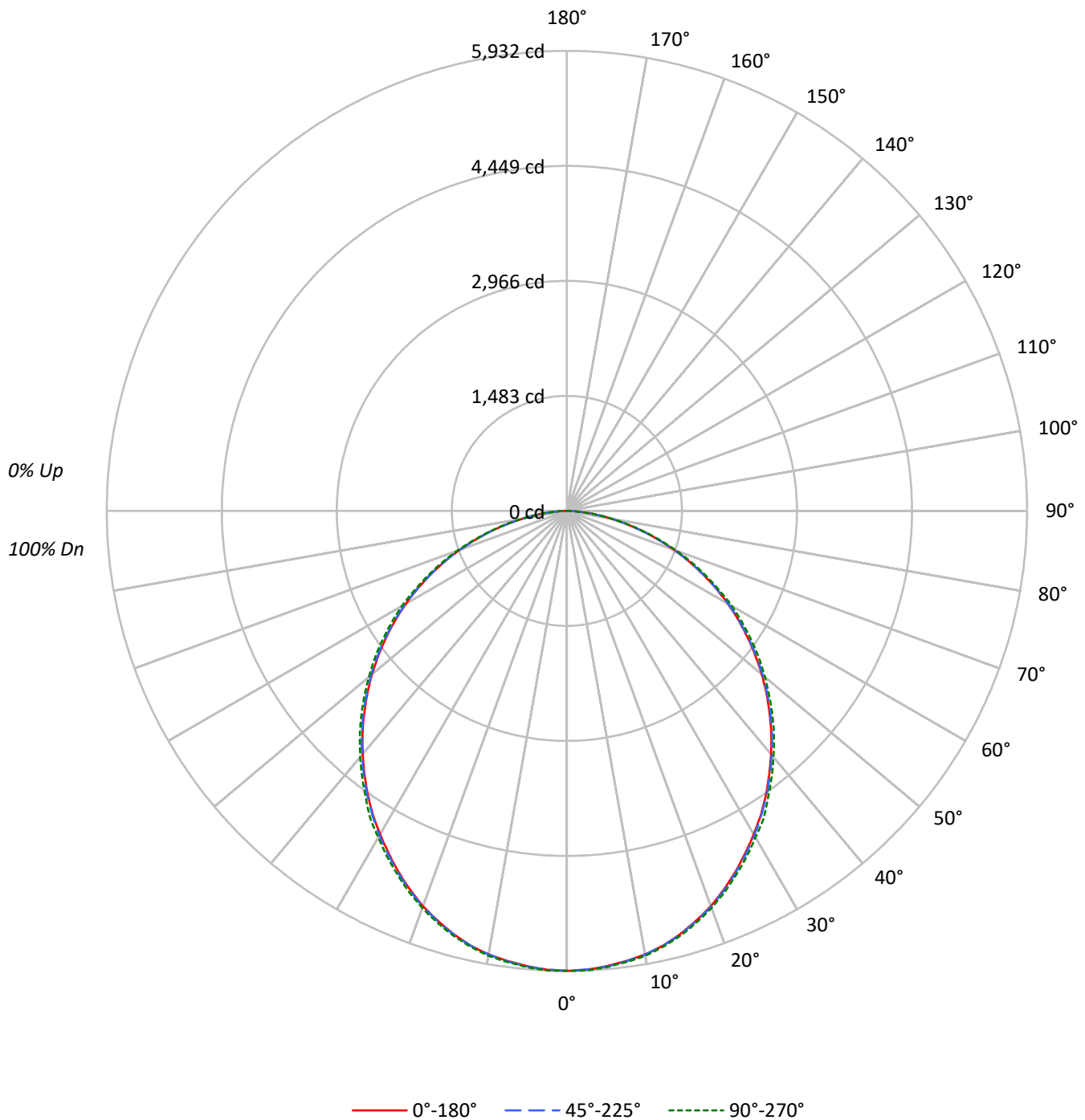
Lumens per Lamp: N/A
Luminaire Lumens: 16025.1 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	7980	7980	7980
5°	7959	7965	7975
10°	7933	7935	7958
15°	7868	7873	7895
20°	7766	7774	7803
25°	7625	7643	7678
30°	7482	7507	7552
35°	7345	7363	7422
40°	7190	7214	7279
45°	7033	7063	7135
50°	6862	6893	6973
55°	6668	6700	6809
60°	6447	6473	6618
65°	6165	6184	6301
70°	5787	5792	5917
75°	5260	5241	5362
80°	4519	4500	4576
85°	3507	3450	3469

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	3.5
10°-20°	1594.1	9.9
20°-30°	2373.2	14.8
30°-40°	2806.5	17.5
40°-50°	2865.1	17.9
50°-60°	2556.9	16.0
60°-70°	1925.8	12.0
70°-80°	1074.0	6.7
80°-90°	269.1	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°	4527.7	28.3
0°-40°	7334.3	45.8
0°-60°	12756.2	79.6
0°-90°	16025.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16025.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5931	5931	5931	5931	5931	
5°	5892	5904	5897	5899	5905	560
15°	5648	5654	5652	5657	5668	1592
25°	5136	5142	5148	5162	5172	2366
35°	4472	4467	4483	4500	4519	2796
45°	3696	3695	3712	3730	3750	2851
55°	2842	2839	2856	2876	2903	2541
65°	1936	1929	1942	1960	1979	1915
75°	1012	1003	1008	1013	1031	1073
85°	227	221	224	221	225	273
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5930.6	5930.6	5930.6	5930.6	5930.6
2.5°	5920.8	5930.6	5918.3	5920.8	5931.8
5°	5892.5	5903.6	5897.4	5898.7	5904.8
7.5°	5853.2	5868.0	5859.4	5861.8	5868.0
10°	5806.6	5817.6	5807.8	5814.0	5825.0
12.5°	5740.3	5745.2	5740.3	5742.7	5755.0
15°	5648.2	5654.3	5651.9	5656.8	5667.8
17.5°	5540.1	5547.5	5546.3	5556.1	5564.7
20°	5423.5	5424.7	5429.6	5439.5	5449.3
22.5°	5286.0	5289.7	5294.6	5308.1	5317.9
25°	5136.2	5142.3	5148.4	5162.0	5171.8
27.5°	4977.8	4983.9	4992.5	5007.2	5023.2
30°	4815.7	4815.7	4831.7	4846.4	4861.1
32.5°	4652.4	4646.3	4661.0	4679.4	4715.0
35°	4471.9	4467.0	4482.9	4500.1	4518.6
37.5°	4284.0	4280.3	4298.8	4317.2	4334.4
40°	4093.7	4088.8	4107.2	4125.6	4144.1
42.5°	3898.5	3896.0	3913.2	3931.6	3951.3
45°	3695.9	3694.7	3711.8	3730.3	3749.9
47.5°	3489.6	3487.1	3504.3	3524.0	3541.2
50°	3278.4	3276.0	3293.1	3312.8	3331.2
52.5°	3061.1	3061.1	3077.0	3094.2	3122.5
55°	2842.5	2838.8	2856.0	2875.7	2902.7
57.5°	2621.5	2616.6	2632.5	2652.2	2676.8
60°	2395.6	2390.7	2405.4	2425.0	2459.4
62.5°	2167.2	2159.8	2174.6	2193.0	2213.8
65°	1936.3	1929.0	1942.5	1959.7	1979.3
67.5°	1704.3	1695.7	1709.2	1723.9	1742.3
70°	1471.0	1462.4	1472.2	1486.9	1504.1
72.5°	1238.9	1230.3	1238.9	1245.1	1265.9
75°	1011.8	1003.2	1008.1	1013.0	1031.4
77.5°	790.7	782.2	792.0	794.4	805.5
80°	583.2	574.6	580.8	582.0	590.6
82.5°	394.1	386.8	395.4	389.2	396.6
85°	227.2	221.0	223.5	221.0	224.7
87.5°	89.6	84.7	86.0	81.0	81.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)