

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: P835024

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835024
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-LD4-6LO-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

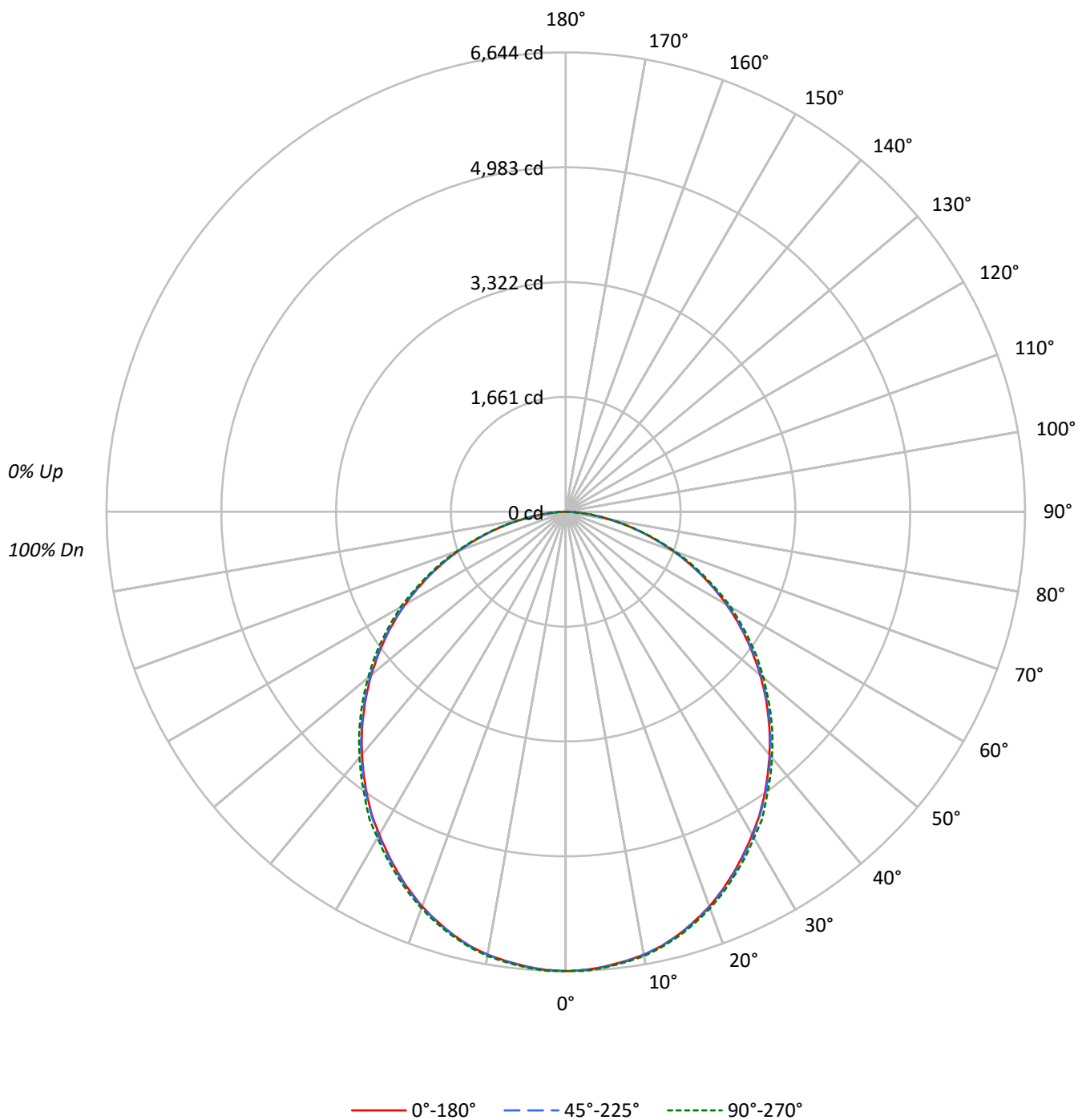
Lumens per Lamp: N/A
Luminaire Lumens: 17949.5 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	8938	8938	8938
5°	8914	8922	8933
10°	8886	8888	8914
15°	8812	8818	8843
20°	8698	8708	8739
25°	8541	8561	8600
30°	8380	8408	8459
35°	8227	8248	8313
40°	8054	8080	8153
45°	7877	7911	7992
50°	7686	7721	7810
55°	7469	7504	7627
60°	7220	7250	7413
65°	6905	6927	7058
70°	6482	6487	6628
75°	5892	5870	6006
80°	5062	5040	5126
85°	3927	3864	3886

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.7	3.5
10°-20°	1785.6	9.9
20°-30°	2658.2	14.8
30°-40°	3143.5	17.5
40°-50°	3209.1	17.9
50°-60°	2864.0	16.0
60°-70°	2157.1	12.0
70°-80°	1203.0	6.7
80°-90°	301.4	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°	5071.4	28.3
0°-40°	8215.0	45.8
0°-60°	14288.0	79.6
0°-90°	17949.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17949.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6643	6643	6643	6643	6643	
5°	6600	6612	6606	6607	6614	627
15°	6326	6333	6331	6336	6348	1783
25°	5753	5760	5767	5782	5793	2650
35°	5009	5003	5021	5040	5061	3132
45°	4140	4138	4158	4178	4200	3193
55°	3184	3180	3199	3221	3251	2846
65°	2169	2161	2176	2195	2217	2145
75°	1133	1124	1129	1135	1155	1201
85°	254	248	250	248	252	305
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6642.8	6642.8	6642.8	6642.8	6642.8
2.5°	6631.8	6642.8	6629.0	6631.8	6644.1
5°	6600.1	6612.5	6605.6	6607.0	6613.9
7.5°	6556.1	6572.6	6563.0	6565.7	6572.6
10°	6503.9	6516.2	6505.2	6512.1	6524.5
12.5°	6429.6	6435.1	6429.6	6432.3	6446.1
15°	6326.4	6333.3	6330.6	6336.1	6348.5
17.5°	6205.4	6213.7	6212.3	6223.3	6232.9
20°	6074.8	6076.1	6081.6	6092.6	6103.6
22.5°	5920.7	5924.9	5930.4	5945.5	5956.5
25°	5752.9	5759.8	5766.7	5781.8	5792.8
27.5°	5575.5	5582.4	5592.0	5608.5	5626.4
30°	5394.0	5394.0	5411.9	5428.4	5444.9
32.5°	5211.1	5204.2	5220.7	5241.3	5281.2
35°	5008.9	5003.4	5021.3	5040.5	5061.2
37.5°	4798.5	4794.3	4815.0	4835.6	4854.9
40°	4585.3	4579.8	4600.4	4621.1	4641.7
42.5°	4366.6	4363.9	4383.1	4403.8	4425.8
45°	4139.7	4138.3	4157.6	4178.2	4200.2
47.5°	3908.6	3905.9	3925.1	3947.2	3966.4
50°	3672.1	3669.3	3688.6	3710.6	3731.2
52.5°	3428.7	3428.7	3446.5	3465.8	3497.4
55°	3183.9	3179.7	3199.0	3221.0	3251.2
57.5°	2936.3	2930.8	2948.7	2970.7	2998.2
60°	2683.2	2677.7	2694.2	2716.2	2754.8
62.5°	2427.4	2419.2	2435.7	2456.3	2479.7
65°	2168.9	2160.6	2175.7	2195.0	2217.0
67.5°	1908.9	1899.3	1914.4	1930.9	1951.6
70°	1647.6	1638.0	1649.0	1665.5	1684.8
72.5°	1387.7	1378.1	1387.7	1394.6	1417.9
75°	1133.3	1123.6	1129.1	1134.6	1155.3
77.5°	885.7	876.1	887.1	889.8	902.2
80°	653.3	643.6	650.5	651.9	661.5
82.5°	441.5	433.2	442.9	436.0	444.2
85°	254.4	247.6	250.3	247.6	251.7
87.5°	100.4	94.9	96.3	90.8	90.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)