

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: P835079

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835079
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-LD4-6STD-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

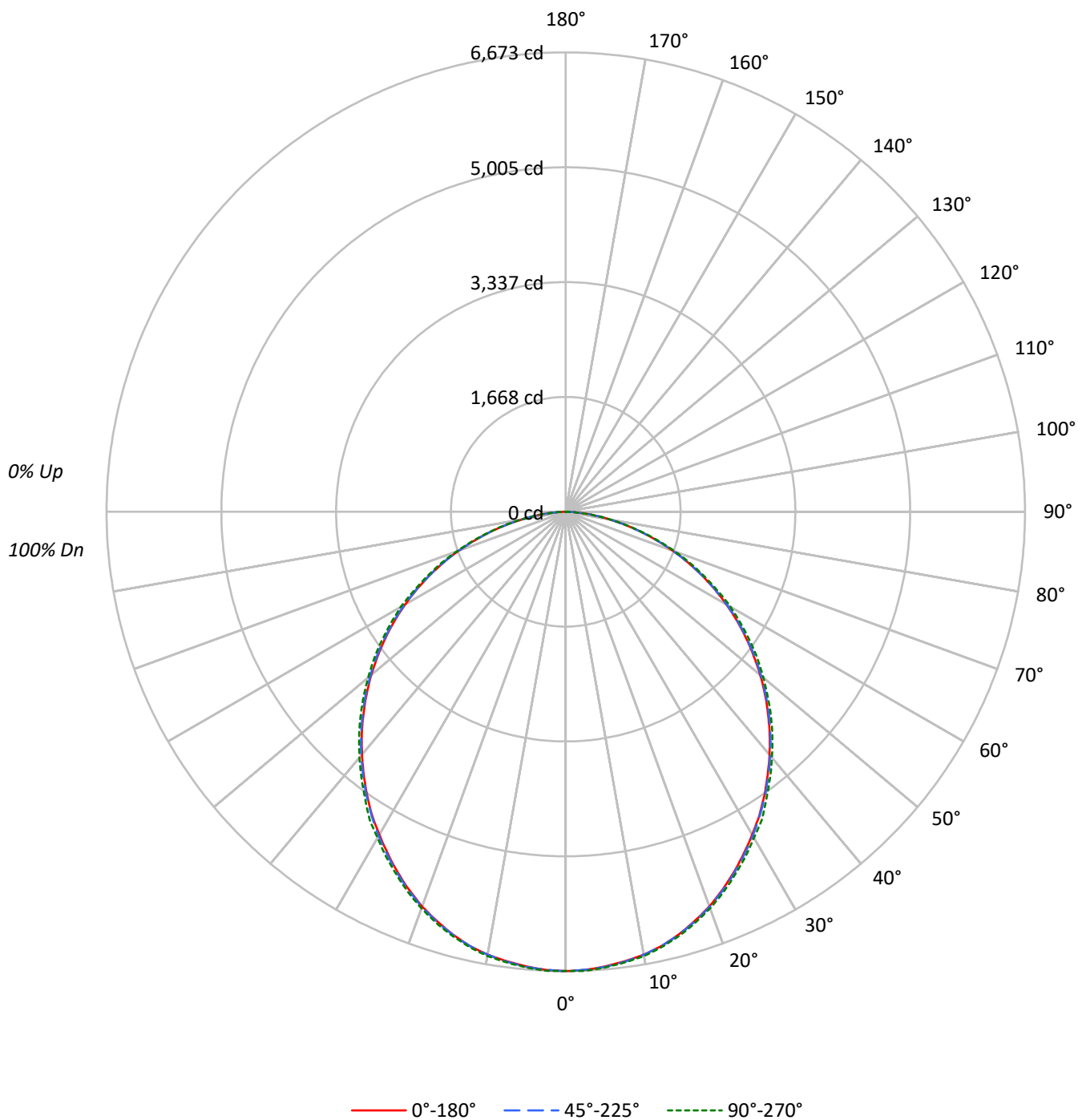
Lumens per Lamp: N/A
Luminaire Lumens: 18028.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	8977	8977	8977
5°	8953	8961	8972
10°	8925	8927	8953
15°	8851	8857	8882
20°	8736	8746	8778
25°	8578	8599	8638
30°	8417	8445	8497
35°	8263	8284	8350
40°	8089	8116	8189
45°	7912	7946	8027
50°	7720	7755	7845
55°	7501	7537	7660
60°	7252	7282	7445
65°	6935	6957	7089
70°	6510	6515	6657
75°	5917	5896	6032
80°	5084	5063	5148
85°	3944	3881	3903

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.5	3.5
10°-20°	1793.4	9.9
20°-30°	2669.8	14.8
30°-40°	3157.3	17.5
40°-50°	3223.2	17.9
50°-60°	2876.5	16.0
60°-70°	2166.6	12.0
70°-80°	1208.3	6.7
80°-90°	302.7	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°	5093.7	28.3
0°-40°	8251.0	45.8
0°-60°	14350.8	79.6
0°-90°	18028.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18028.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6672	6672	6672	6672	6672	
5°	6629	6642	6635	6636	6643	630
15°	6354	6361	6358	6364	6376	1791
25°	5778	5785	5792	5807	5818	2662
35°	5031	5025	5043	5063	5083	3146
45°	4158	4156	4176	4196	4219	3207
55°	3198	3194	3213	3235	3266	2858
65°	2178	2170	2185	2205	2227	2155
75°	1138	1129	1134	1140	1160	1207
85°	256	249	251	249	253	307
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6671.9	6671.9	6671.9	6671.9	6671.9
2.5°	6660.9	6671.9	6658.1	6660.9	6673.3
5°	6629.1	6641.5	6634.6	6636.0	6642.9
7.5°	6584.9	6601.5	6591.8	6594.6	6601.5
10°	6532.4	6544.8	6533.8	6540.7	6553.1
12.5°	6457.8	6463.3	6457.8	6460.6	6474.4
15°	6354.2	6361.1	6358.4	6363.9	6376.3
17.5°	6232.7	6240.9	6239.6	6250.6	6260.3
20°	6101.4	6102.8	6108.3	6119.4	6130.4
22.5°	5946.7	5950.9	5956.4	5971.6	5982.6
25°	5778.2	5785.1	5792.0	5807.2	5818.3
27.5°	5600.0	5606.9	5616.6	5633.1	5651.1
30°	5417.7	5417.7	5435.6	5452.2	5468.8
32.5°	5233.9	5227.0	5243.6	5264.3	5304.4
35°	5030.9	5025.4	5043.3	5062.7	5083.4
37.5°	4819.5	4815.4	4836.1	4856.8	4876.2
40°	4605.4	4599.9	4620.6	4641.3	4662.1
42.5°	4385.8	4383.0	4402.4	4423.1	4445.2
45°	4157.9	4156.5	4175.8	4196.5	4218.6
47.5°	3925.8	3923.0	3942.4	3964.5	3983.8
50°	3688.2	3685.4	3704.8	3726.9	3747.6
52.5°	3443.7	3443.7	3461.7	3481.0	3512.8
55°	3197.8	3193.7	3213.0	3235.1	3265.5
57.5°	2949.2	2943.7	2961.6	2983.7	3011.3
60°	2695.0	2689.5	2706.1	2728.2	2766.8
62.5°	2438.1	2429.8	2446.4	2467.1	2490.6
65°	2178.4	2170.1	2185.3	2204.6	2226.7
67.5°	1917.3	1907.6	1922.8	1939.4	1960.1
70°	1654.9	1645.2	1656.2	1672.8	1692.2
72.5°	1393.8	1384.1	1393.8	1400.7	1424.2
75°	1138.2	1128.6	1134.1	1139.6	1160.3
77.5°	889.6	879.9	891.0	893.7	906.2
80°	656.1	646.5	653.4	654.8	664.4
82.5°	443.4	435.1	444.8	437.9	446.2
85°	255.5	248.6	251.4	248.6	252.8
87.5°	100.8	95.3	96.7	91.2	91.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)