

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: P834968

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834968
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-LD4-5STD-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

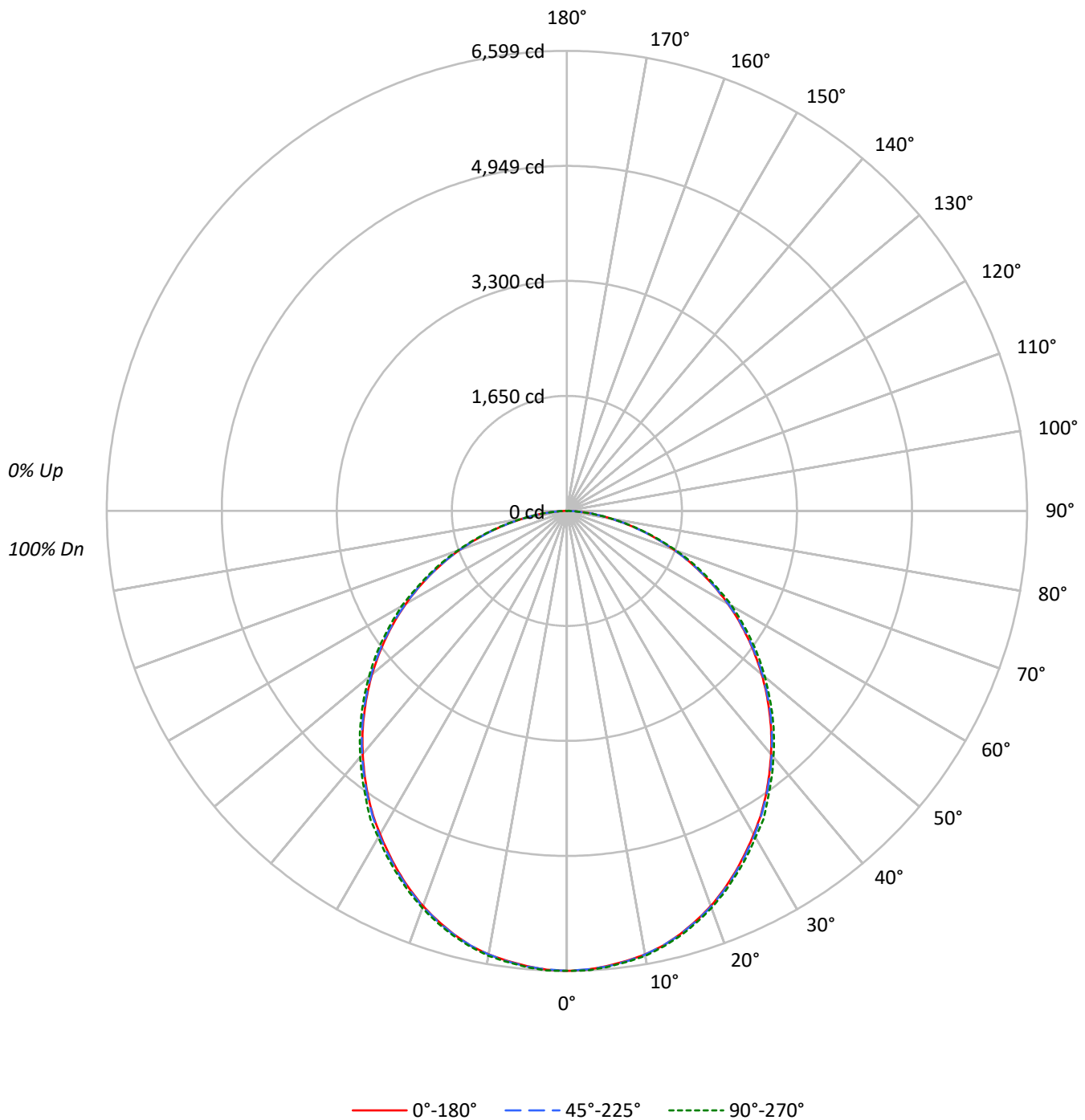
Lumens per Lamp: N/A
Luminaire Lumens: 17827.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	8877	8877	8877
5°	8854	8861	8872
10°	8825	8827	8853
15°	8752	8758	8783
20°	8639	8649	8680
25°	8482	8503	8541
30°	8323	8351	8402
35°	8171	8191	8257
40°	7999	8025	8097
45°	7823	7857	7938
50°	7634	7668	7757
55°	7418	7453	7575
60°	7171	7201	7363
65°	6858	6880	7010
70°	6438	6443	6583
75°	5851	5830	5965
80°	5027	5006	5091
85°	3901	3838	3859

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.4	3.5
10°-20°	1773.4	9.9
20°-30°	2640.0	14.8
30°-40°	3122.1	17.5
40°-50°	3187.2	17.9
50°-60°	2844.4	16.0
60°-70°	2142.4	12.0
70°-80°	1194.8	6.7
80°-90°	299.3	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°	5036.9	28.3
0°-40°	8159.0	45.8
0°-60°	14190.6	79.6
0°-90°	17827.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17827.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6598	6598	6598	6598	6598	
5°	6555	6567	6561	6562	6569	623
15°	6283	6290	6287	6293	6305	1771
25°	5714	5720	5727	5742	5753	2632
35°	4975	4969	4987	5006	5027	3111
45°	4112	4110	4129	4150	4172	3172
55°	3162	3158	3177	3199	3229	2827
65°	2154	2146	2161	2180	2202	2130
75°	1126	1116	1121	1127	1147	1193
85°	253	246	249	246	250	303
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6597.5	6597.5	6597.5	6597.5	6597.5
2.5°	6586.6	6597.5	6583.8	6586.6	6598.8
5°	6555.1	6567.4	6560.6	6562.0	6568.8
7.5°	6511.4	6527.8	6518.3	6521.0	6527.8
10°	6459.5	6471.8	6460.9	6467.7	6480.0
12.5°	6385.8	6391.2	6385.8	6388.5	6402.1
15°	6283.3	6290.1	6287.4	6292.9	6305.2
17.5°	6163.1	6171.3	6169.9	6180.9	6190.4
20°	6033.3	6034.7	6040.2	6051.1	6062.0
22.5°	5880.4	5884.5	5889.9	5904.9	5915.9
25°	5713.7	5720.5	5727.4	5742.4	5753.3
27.5°	5537.5	5544.3	5553.9	5570.3	5588.1
30°	5357.2	5357.2	5375.0	5391.4	5407.7
32.5°	5175.5	5168.7	5185.1	5205.6	5245.2
35°	4974.7	4969.3	4987.0	5006.2	5026.7
37.5°	4765.8	4761.7	4782.1	4802.6	4821.8
40°	4554.0	4548.6	4569.1	4589.6	4610.0
42.5°	4336.9	4334.1	4353.2	4373.7	4395.6
45°	4111.5	4110.1	4129.2	4149.7	4171.6
47.5°	3882.0	3879.3	3898.4	3920.2	3939.4
50°	3647.1	3644.3	3663.4	3685.3	3705.8
52.5°	3405.3	3405.3	3423.0	3442.2	3473.6
55°	3162.1	3158.0	3177.2	3199.0	3229.1
57.5°	2916.3	2910.8	2928.6	2950.4	2977.7
60°	2664.9	2659.5	2675.9	2697.7	2736.0
62.5°	2410.9	2402.7	2419.1	2439.6	2462.8
65°	2154.1	2145.9	2160.9	2180.0	2201.9
67.5°	1895.9	1886.4	1901.4	1917.8	1938.3
70°	1636.4	1626.8	1637.8	1654.2	1673.3
72.5°	1378.2	1368.7	1378.2	1385.1	1408.3
75°	1125.5	1116.0	1121.4	1126.9	1147.4
77.5°	879.7	870.1	881.0	883.8	896.1
80°	648.8	639.3	646.1	647.5	657.0
82.5°	438.5	430.3	439.8	433.0	441.2
85°	252.7	245.9	248.6	245.9	250.0
87.5°	99.7	94.2	95.6	90.2	90.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)