

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: P835152

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835152
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-LD4-6HI-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

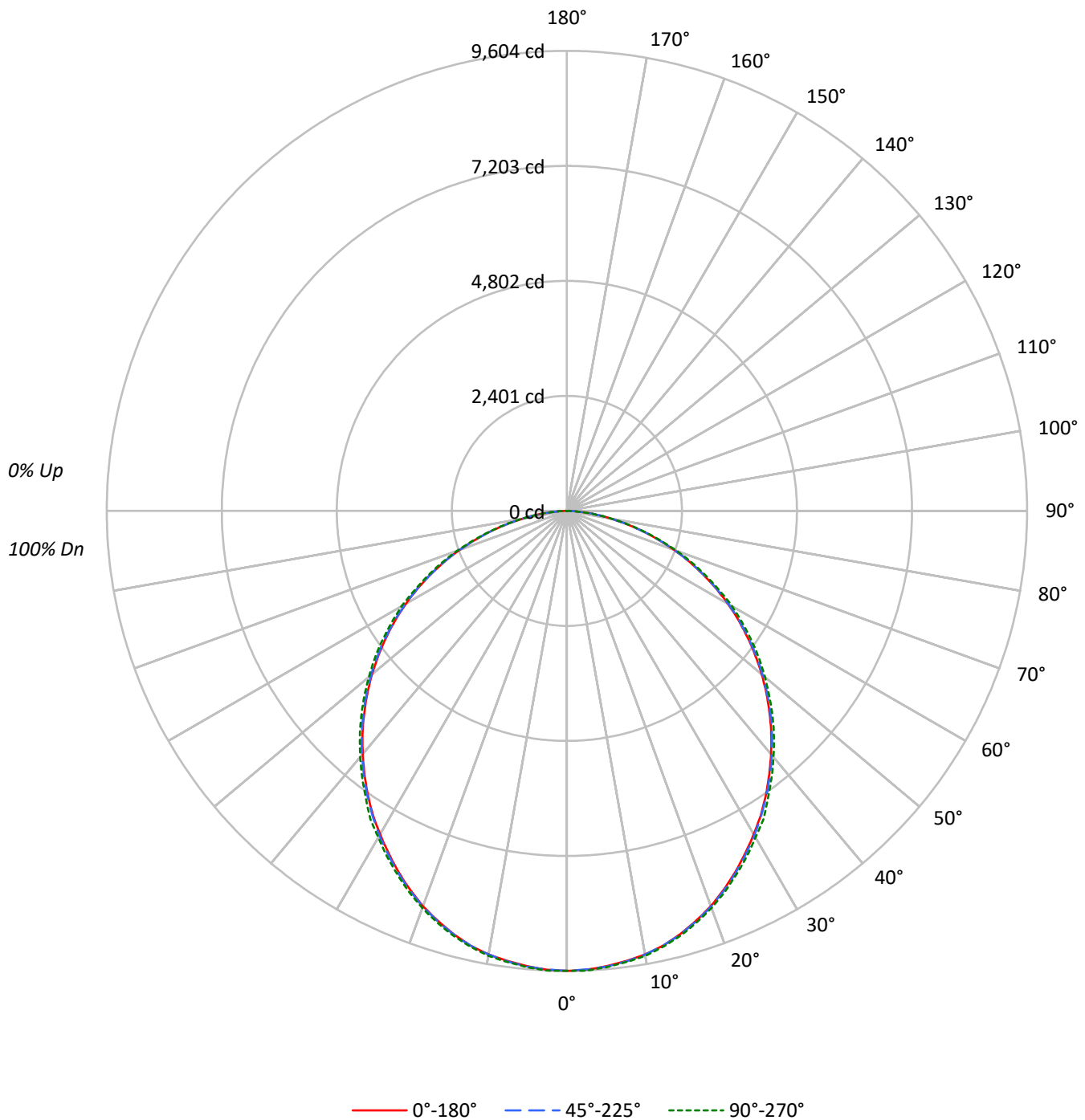
Lumens per Lamp: N/A
Luminaire Lumens: 25945.2 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36		48	41	36		47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12919	12919	12919
5°	12885	12896	12912
10°	12844	12847	12885
15°	12738	12746	12782
20°	12573	12587	12633
25°	12345	12375	12431
30°	12113	12153	12228
35°	11892	11922	12016
40°	11641	11680	11784
45°	11386	11435	11552
50°	11110	11160	11289
55°	10796	10847	11024
60°	10437	10480	10715
65°	9981	10012	10202
70°	9369	9377	9580
75°	8516	8485	8681
80°	7317	7286	7409
85°	5678	5585	5616

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	907.3	3.5
10°-20°	2581.0	9.9
20°-30°	3842.3	14.8
30°-40°	4543.8	17.5
40°-50°	4638.6	17.9
50°-60°	4139.7	16.0
60°-70°	3118.0	12.0
70°-80°	1738.8	6.7
80°-90°	435.6	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°	7330.6	28.3
0°-40°	11874.4	45.8
0°-60°	20652.7	79.6
0°-90°	25945.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25945.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9602	9602	9602	9602	9602	
5°	9540	9558	9548	9550	9560	906
15°	9145	9154	9151	9158	9176	2577
25°	8316	8326	8336	8357	8373	3831
35°	7240	7232	7258	7286	7316	4528
45°	5984	5982	6010	6039	6071	4616
55°	4602	4596	4624	4656	4700	4114
65°	3135	3123	3145	3173	3205	3101
75°	1638	1624	1632	1640	1670	1737
85°	368	358	362	358	364	441
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9601.8	9601.8	9601.8	9601.8	9601.8
2.5°	9585.9	9601.8	9582.0	9585.9	9603.8
5°	9540.2	9558.1	9548.2	9550.1	9560.1
7.5°	9476.6	9500.4	9486.5	9490.5	9500.4
10°	9401.0	9418.9	9403.0	9413.0	9430.9
12.5°	9293.7	9301.7	9293.7	9297.7	9317.6
15°	9144.6	9154.5	9150.6	9158.5	9176.4
17.5°	8969.7	8981.6	8979.6	8995.5	9009.4
20°	8780.8	8782.8	8790.7	8806.7	8822.6
22.5°	8558.2	8564.1	8572.1	8593.9	8609.8
25°	8315.6	8325.6	8335.5	8357.4	8373.3
27.5°	8059.2	8069.1	8083.0	8106.9	8132.7
30°	7796.8	7796.8	7822.6	7846.5	7870.3
32.5°	7532.4	7522.4	7546.3	7576.1	7633.8
35°	7240.1	7232.2	7258.0	7285.9	7315.7
37.5°	6936.0	6930.0	6959.8	6989.7	7017.5
40°	6627.8	6619.9	6649.7	6679.5	6709.4
42.5°	6311.8	6307.8	6335.6	6365.4	6397.2
45°	5983.8	5981.8	6009.6	6039.4	6071.2
47.5°	5649.8	5645.8	5673.6	5705.4	5733.3
50°	5307.8	5303.9	5331.7	5363.5	5393.3
52.5°	4956.0	4956.0	4981.8	5009.7	5055.4
55°	4602.1	4596.2	4624.0	4655.8	4699.5
57.5°	4244.3	4236.3	4262.2	4294.0	4333.7
60°	3878.5	3870.6	3894.4	3926.2	3981.9
62.5°	3508.7	3496.8	3520.7	3550.5	3584.3
65°	3135.0	3123.1	3144.9	3172.8	3204.6
67.5°	2759.3	2745.4	2767.2	2791.1	2820.9
70°	2381.6	2367.7	2383.6	2407.4	2435.2
72.5°	2005.8	1991.9	2005.8	2015.8	2049.6
75°	1638.1	1624.2	1632.1	1640.1	1669.9
77.5°	1280.2	1266.3	1282.2	1286.2	1304.1
80°	944.3	930.4	940.3	942.3	956.2
82.5°	638.1	626.2	640.1	630.2	642.1
85°	367.8	357.8	361.8	357.8	363.8
87.5°	145.1	137.2	139.2	131.2	131.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)