

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: P835151

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835151
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-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

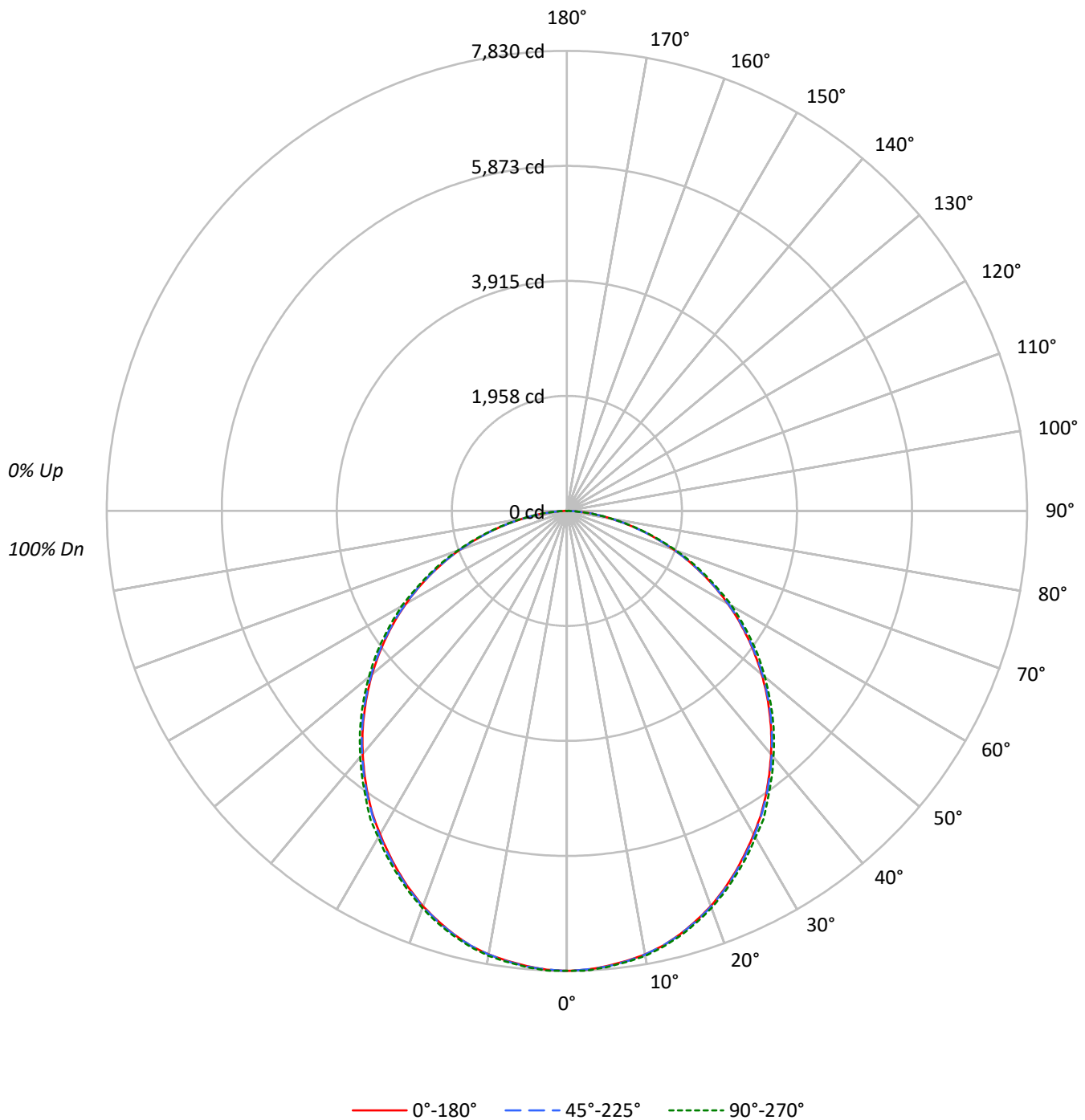
Lumens per Lamp: N/A
Luminaire Lumens: 21153.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	30	10	50	30	10
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°	10533	10533	10533
5°	10505	10514	10527
10°	10472	10474	10505
15°	10385	10392	10421
20°	10251	10262	10299
25°	10065	10089	10135
30°	9876	9909	9969
35°	9696	9720	9797
40°	9491	9522	9608
45°	9283	9323	9419
50°	9058	9099	9204
55°	8802	8843	8988
60°	8509	8544	8736
65°	8138	8163	8318
70°	7639	7645	7811
75°	6943	6918	7078
80°	5965	5940	6041
85°	4628	4554	4579

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.7	3.5
10°-20°	2104.3	9.9
20°-30°	3132.6	14.8
30°-40°	3704.6	17.5
40°-50°	3781.9	17.9
50°-60°	3375.1	16.0
60°-70°	2542.1	12.0
70°-80°	1417.7	6.7
80°-90°	355.2	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°	5976.6	28.3
0°-40°	9681.2	45.8
0°-60°	16838.2	79.6
0°-90°	21153.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21153.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7828	7828	7828	7828	7828	
5°	7778	7793	7785	7786	7794	739
15°	7456	7464	7460	7467	7482	2101
25°	6780	6788	6796	6814	6827	3123
35°	5903	5896	5918	5940	5964	3691
45°	4879	4877	4900	4924	4950	3763
55°	3752	3747	3770	3796	3832	3354
65°	2556	2546	2564	2587	2613	2528
75°	1336	1324	1331	1337	1362	1416
85°	300	292	295	292	297	360
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7828.4	7828.4	7828.4	7828.4	7828.4
2.5°	7815.4	7828.4	7812.2	7815.4	7830.0
5°	7778.1	7792.7	7784.6	7786.3	7794.4
7.5°	7726.3	7745.7	7734.4	7737.6	7745.7
10°	7664.7	7679.3	7666.3	7674.4	7689.0
12.5°	7577.2	7583.7	7577.2	7580.4	7596.6
15°	7455.6	7463.7	7460.5	7467.0	7481.5
17.5°	7313.0	7322.7	7321.1	7334.1	7345.4
20°	7159.0	7160.6	7167.1	7180.1	7193.0
22.5°	6977.5	6982.3	6988.8	7006.7	7019.6
25°	6779.7	6787.8	6796.0	6813.8	6826.7
27.5°	6570.7	6578.8	6590.1	6609.6	6630.6
30°	6356.7	6356.7	6377.8	6397.2	6416.7
32.5°	6141.2	6133.1	6152.5	6176.8	6223.8
35°	5902.9	5896.4	5917.5	5940.2	5964.5
37.5°	5654.9	5650.1	5674.4	5698.7	5721.4
40°	5403.7	5397.2	5421.5	5445.8	5470.2
42.5°	5146.0	5142.8	5165.4	5189.8	5215.7
45°	4878.6	4876.9	4899.6	4923.9	4949.9
47.5°	4606.3	4603.0	4625.7	4651.7	4674.3
50°	4327.5	4324.3	4346.9	4372.9	4397.2
52.5°	4040.6	4040.6	4061.7	4084.4	4121.7
55°	3752.1	3747.3	3769.9	3795.9	3831.5
57.5°	3460.4	3453.9	3475.0	3500.9	3533.3
60°	3162.2	3155.7	3175.1	3201.1	3246.4
62.5°	2860.7	2851.0	2870.4	2894.7	2922.3
65°	2556.0	2546.3	2564.1	2586.8	2612.7
67.5°	2249.6	2238.3	2256.1	2275.6	2299.9
70°	1941.7	1930.4	1943.3	1962.8	1985.5
72.5°	1635.4	1624.0	1635.4	1643.5	1671.0
75°	1335.5	1324.2	1330.7	1337.1	1361.5
77.5°	1043.8	1032.4	1045.4	1048.6	1063.2
80°	769.9	758.5	766.6	768.3	779.6
82.5°	520.3	510.5	521.9	513.8	523.5
85°	299.8	291.7	295.0	291.7	296.6
87.5°	118.3	111.8	113.5	107.0	107.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)