

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: P835678

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835678
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-2LO-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

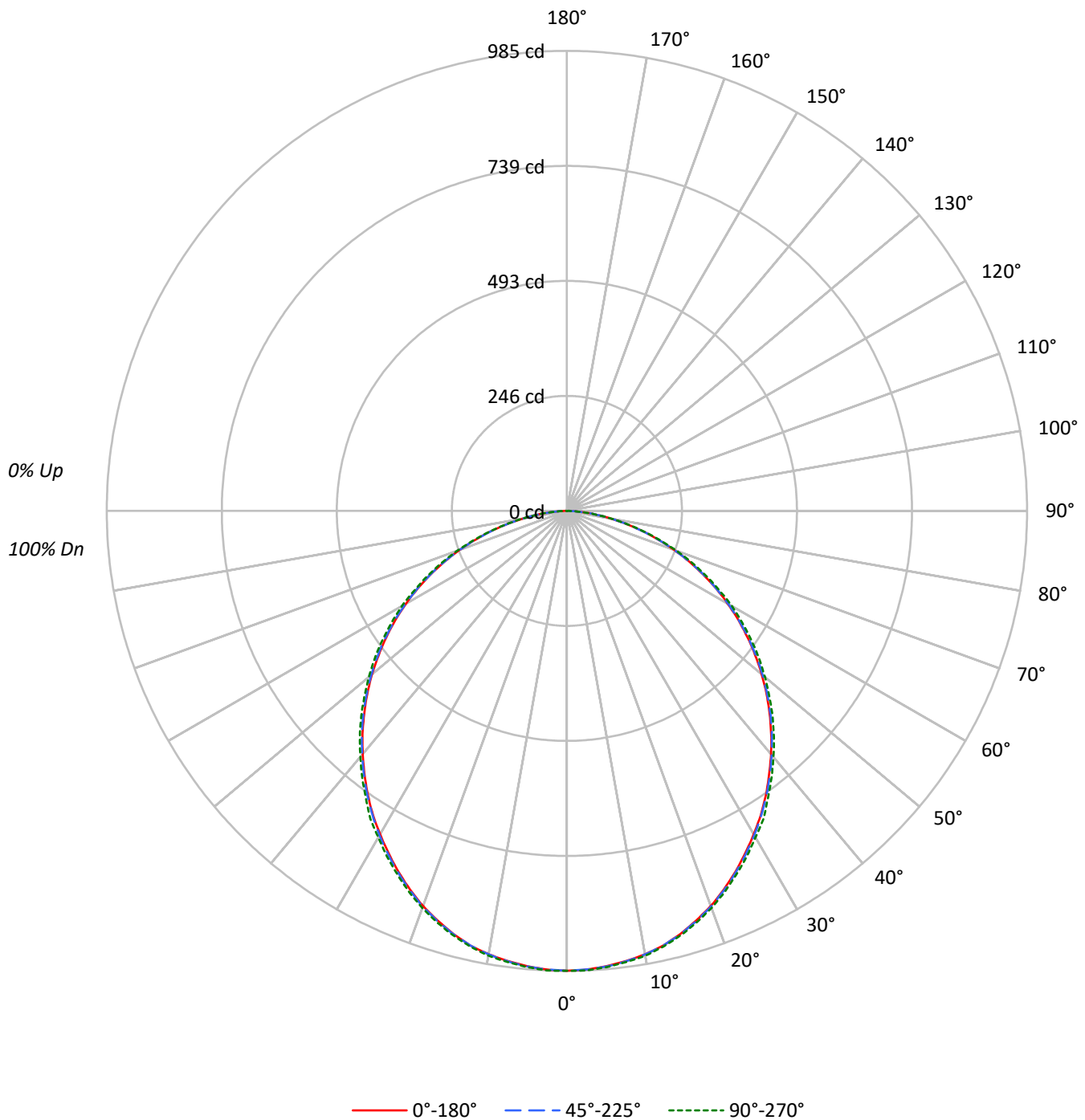
Lumens per Lamp: N/A
Luminaire Lumens: 2660.7 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

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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	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2650	2650	2650
5°	2643	2645	2648
10°	2634	2635	2643
15°	2613	2614	2622
20°	2579	2582	2591
25°	2532	2538	2550
30°	2485	2493	2508
35°	2439	2445	2464
40°	2388	2395	2417
45°	2335	2345	2369
50°	2279	2289	2316
55°	2214	2225	2261
60°	2140	2150	2197
65°	2047	2053	2092
70°	1921	1923	1965
75°	1747	1740	1780
80°	1500	1494	1520
85°	1164	1145	1152

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.5
10°-20°	264.7	9.9
20°-30°	394.0	14.8
30°-40°	466.0	17.5
40°-50°	475.7	17.9
50°-60°	424.5	16.0
60°-70°	319.7	12.0
70°-80°	178.3	6.7
80°-90°	44.7	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°	751.8	28.3
0°-40°	1217.7	45.8
0°-60°	2117.9	79.6
0°-90°	2660.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2660.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	978	980	979	979	980	93
15°	938	939	938	939	941	264
25°	853	854	855	857	859	393
35°	742	742	744	747	750	464
45°	614	613	616	619	623	473
55°	472	471	474	478	482	422
65°	322	320	322	325	329	318
75°	168	167	167	168	171	178
85°	38	37	37	37	37	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.7	984.7	984.7	984.7	984.7
2.5°	983.0	984.7	982.6	983.0	984.9
5°	978.4	980.2	979.2	979.4	980.4
7.5°	971.8	974.3	972.8	973.3	974.3
10°	964.1	965.9	964.3	965.3	967.1
12.5°	953.1	953.9	953.1	953.5	955.5
15°	937.8	938.8	938.4	939.2	941.0
17.5°	919.8	921.1	920.9	922.5	923.9
20°	900.5	900.7	901.5	903.1	904.8
22.5°	877.6	878.3	879.1	881.3	882.9
25°	852.8	853.8	854.8	857.1	858.7
27.5°	826.5	827.5	828.9	831.4	834.0
30°	799.6	799.6	802.2	804.7	807.1
32.5°	772.4	771.4	773.9	776.9	782.8
35°	742.5	741.7	744.3	747.2	750.2
37.5°	711.3	710.7	713.7	716.8	719.6
40°	679.7	678.9	681.9	685.0	688.0
42.5°	647.3	646.9	649.7	652.8	656.0
45°	613.6	613.4	616.3	619.3	622.6
47.5°	579.4	579.0	581.8	585.1	587.9
50°	544.3	543.9	546.8	550.0	553.1
52.5°	508.2	508.2	510.9	513.7	518.4
55°	472.0	471.3	474.2	477.5	481.9
57.5°	435.3	434.4	437.1	440.4	444.4
60°	397.7	396.9	399.4	402.6	408.3
62.5°	359.8	358.6	361.0	364.1	367.6
65°	321.5	320.3	322.5	325.4	328.6
67.5°	283.0	281.5	283.8	286.2	289.3
70°	244.2	242.8	244.4	246.9	249.7
72.5°	205.7	204.3	205.7	206.7	210.2
75°	168.0	166.6	167.4	168.2	171.2
77.5°	131.3	129.9	131.5	131.9	133.7
80°	96.8	95.4	96.4	96.6	98.1
82.5°	65.4	64.2	65.6	64.6	65.8
85°	37.7	36.7	37.1	36.7	37.3
87.5°	14.9	14.1	14.3	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)