

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: P834442

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1LO-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

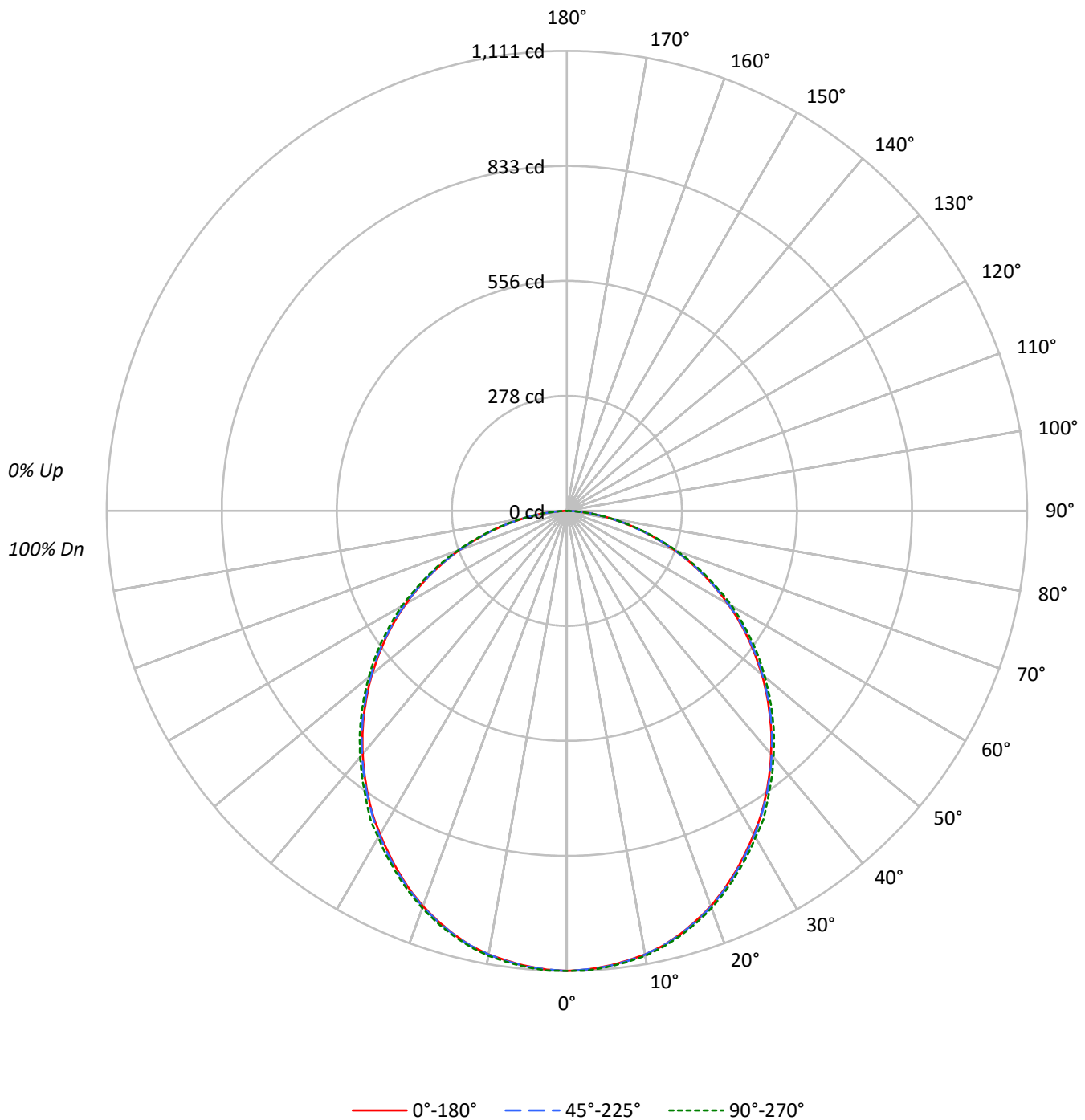
Lumens per Lamp: N/A
Luminaire Lumens: 3001.9 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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°	2989	2989	2989
5°	2982	2984	2988
10°	2972	2973	2981
15°	2947	2949	2958
20°	2909	2913	2923
25°	2857	2863	2877
30°	2803	2812	2829
35°	2752	2758	2780
40°	2694	2703	2727
45°	2635	2646	2673
50°	2571	2583	2612
55°	2498	2510	2551
60°	2415	2425	2479
65°	2309	2317	2361
70°	2168	2170	2217
75°	1970	1963	2009
80°	1694	1686	1714
85°	1315	1294	1300

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.5
10°-20°	298.6	9.9
20°-30°	444.5	14.8
30°-40°	525.7	17.5
40°-50°	536.7	17.9
50°-60°	479.0	16.0
60°-70°	360.7	12.0
70°-80°	201.2	6.7
80°-90°	50.4	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°	848.1	28.3
0°-40°	1373.9	45.8
0°-60°	2389.5	79.6
0°-90°	3001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1104	1106	1105	1105	1106	105
15°	1058	1059	1059	1060	1062	298
25°	962	963	964	967	969	443
35°	838	837	840	843	846	524
45°	692	692	695	699	702	534
55°	532	532	535	539	544	476
65°	363	361	364	367	371	359
75°	190	188	189	190	193	201
85°	43	41	42	41	42	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.9	1110.9	1110.9	1110.9	1110.9
2.5°	1109.1	1110.9	1108.6	1109.1	1111.2
5°	1103.8	1105.9	1104.7	1104.9	1106.1
7.5°	1096.4	1099.2	1097.6	1098.0	1099.2
10°	1087.7	1089.8	1087.9	1089.1	1091.1
12.5°	1075.3	1076.2	1075.3	1075.7	1078.0
15°	1058.0	1059.2	1058.7	1059.6	1061.7
17.5°	1037.8	1039.2	1038.9	1040.8	1042.4
20°	1015.9	1016.2	1017.1	1018.9	1020.8
22.5°	990.2	990.9	991.8	994.3	996.1
25°	962.1	963.3	964.4	966.9	968.8
27.5°	932.4	933.6	935.2	938.0	940.9
30°	902.1	902.1	905.1	907.8	910.6
32.5°	871.5	870.3	873.1	876.5	883.2
35°	837.7	836.8	839.7	843.0	846.4
37.5°	802.5	801.8	805.2	808.7	811.9
40°	766.8	765.9	769.4	772.8	776.3
42.5°	730.3	729.8	733.0	736.5	740.2
45°	692.3	692.1	695.3	698.8	702.4
47.5°	653.7	653.2	656.4	660.1	663.3
50°	614.1	613.7	616.9	620.6	624.0
52.5°	573.4	573.4	576.4	579.6	584.9
55°	532.5	531.8	535.0	538.7	543.7
57.5°	491.1	490.1	493.1	496.8	501.4
60°	448.7	447.8	450.6	454.3	460.7
62.5°	406.0	404.6	407.3	410.8	414.7
65°	362.7	361.3	363.9	367.1	370.8
67.5°	319.2	317.6	320.2	322.9	326.4
70°	275.5	273.9	275.8	278.5	281.8
72.5°	232.1	230.5	232.1	233.2	237.1
75°	189.5	187.9	188.8	189.8	193.2
77.5°	148.1	146.5	148.4	148.8	150.9
80°	109.3	107.6	108.8	109.0	110.6
82.5°	73.8	72.5	74.1	72.9	74.3
85°	42.6	41.4	41.9	41.4	42.1
87.5°	16.8	15.9	16.1	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)