

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: P835786

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835786
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-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

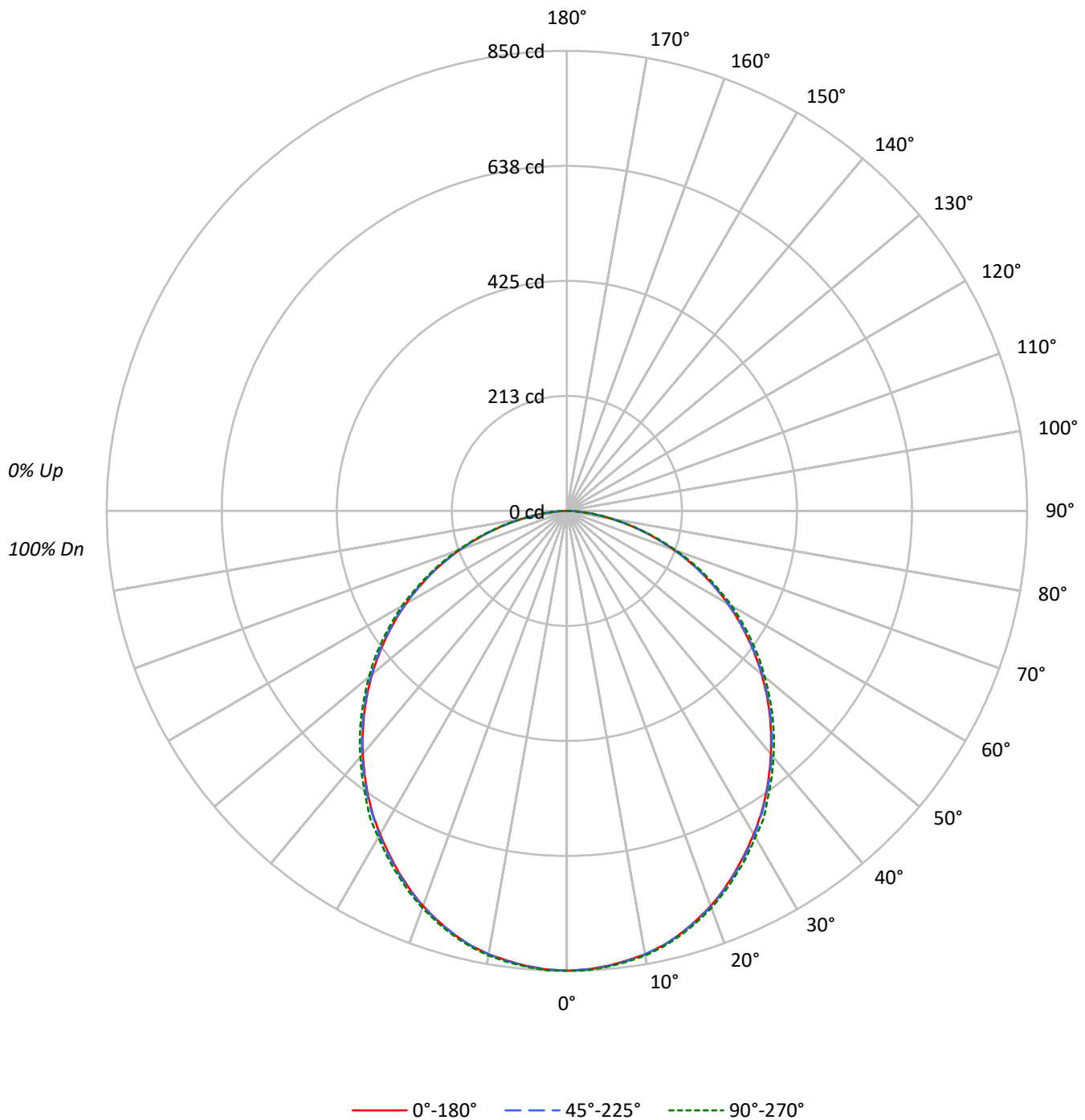
Lumens per Lamp: N/A
Luminaire Lumens: 2295.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2286	2286	2286
5°	2280	2282	2285
10°	2273	2273	2280
15°	2254	2255	2262
20°	2225	2227	2235
25°	2184	2190	2200
30°	2143	2151	2164
35°	2104	2110	2126
40°	2060	2067	2085
45°	2015	2023	2044
50°	1966	1975	1998
55°	1910	1919	1951
60°	1847	1855	1896
65°	1766	1771	1805
70°	1658	1659	1696
75°	1507	1501	1536
80°	1294	1289	1311
85°	1003	988	994

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.5
10°-20°	228.4	9.9
20°-30°	339.9	14.8
30°-40°	402.0	17.5
40°-50°	410.4	17.9
50°-60°	366.3	16.0
60°-70°	275.9	12.0
70°-80°	153.8	6.7
80°-90°	38.5	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°	648.6	28.3
0°-40°	1050.6	45.8
0°-60°	1827.3	79.6
0°-90°	2295.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	844	846	845	845	846	80
15°	809	810	810	810	812	228
25°	736	737	738	739	741	339
35°	641	640	642	645	647	401
45°	529	529	532	534	537	408
55°	407	407	409	412	416	364
65°	277	276	278	281	284	274
75°	145	144	144	145	148	154
85°	32	32	32	32	32	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.5	849.5	849.5	849.5	849.5
2.5°	848.1	849.5	847.8	848.1	849.7
5°	844.1	845.7	844.8	844.9	845.8
7.5°	838.4	840.6	839.3	839.7	840.6
10°	831.8	833.3	831.9	832.8	834.4
12.5°	822.3	823.0	822.3	822.6	824.4
15°	809.1	809.9	809.6	810.3	811.9
17.5°	793.6	794.6	794.5	795.9	797.1
20°	776.9	777.1	777.8	779.2	780.6
22.5°	757.2	757.7	758.4	760.3	761.8
25°	735.7	736.6	737.5	739.4	740.8
27.5°	713.0	713.9	715.1	717.3	719.5
30°	689.8	689.8	692.1	694.2	696.3
32.5°	666.4	665.5	667.7	670.3	675.4
35°	640.6	639.9	642.2	644.6	647.3
37.5°	613.7	613.1	615.8	618.4	620.9
40°	586.4	585.7	588.3	591.0	593.6
42.5°	558.4	558.1	560.5	563.2	566.0
45°	529.4	529.2	531.7	534.3	537.2
47.5°	499.9	499.5	502.0	504.8	507.3
50°	469.6	469.3	471.7	474.5	477.2
52.5°	438.5	438.5	440.8	443.2	447.3
55°	407.2	406.6	409.1	411.9	415.8
57.5°	375.5	374.8	377.1	379.9	383.4
60°	343.2	342.4	344.6	347.4	352.3
62.5°	310.4	309.4	311.5	314.1	317.1
65°	277.4	276.3	278.2	280.7	283.5
67.5°	244.1	242.9	244.8	246.9	249.6
70°	210.7	209.5	210.9	213.0	215.5
72.5°	177.5	176.2	177.5	178.3	181.3
75°	144.9	143.7	144.4	145.1	147.7
77.5°	113.3	112.0	113.4	113.8	115.4
80°	83.5	82.3	83.2	83.4	84.6
82.5°	56.5	55.4	56.6	55.8	56.8
85°	32.5	31.7	32.0	31.7	32.2
87.5°	12.8	12.1	12.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)