

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: P835624

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835624
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-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

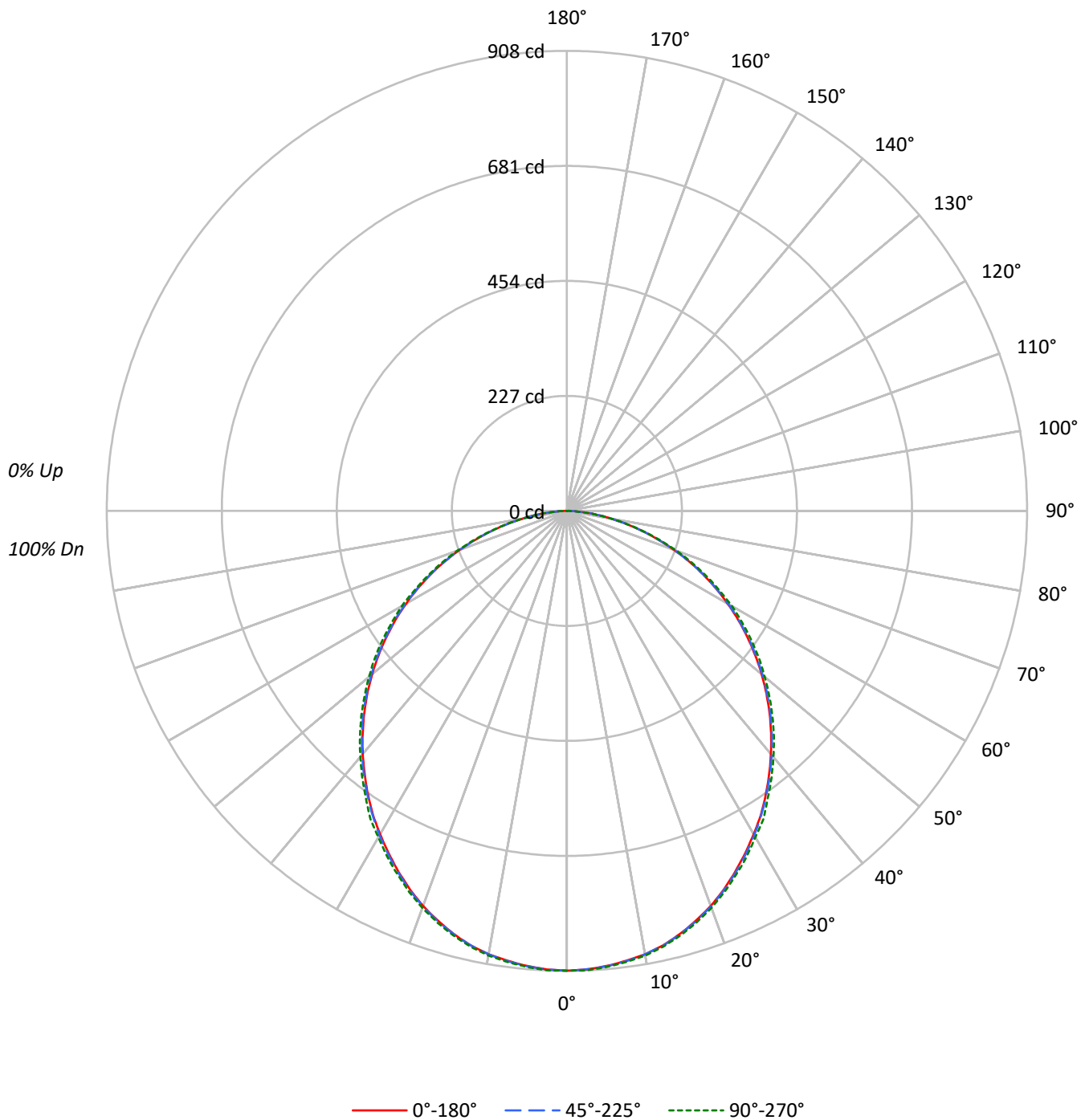
Lumens per Lamp: N/A
Luminaire Lumens: 2452.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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°	2442	2442	2442
5°	2435	2438	2441
10°	2428	2428	2435
15°	2408	2409	2416
20°	2377	2379	2388
25°	2333	2339	2350
30°	2290	2297	2311
35°	2248	2253	2271
40°	2200	2207	2227
45°	2152	2162	2184
50°	2100	2110	2134
55°	2040	2050	2084
60°	1972	1981	2025
65°	1887	1892	1929
70°	1771	1773	1810
75°	1609	1603	1641
80°	1382	1378	1401
85°	1074	1056	1062

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.5
10°-20°	243.9	9.9
20°-30°	363.1	14.8
30°-40°	429.4	17.5
40°-50°	438.4	17.9
50°-60°	391.2	16.0
60°-70°	294.7	12.0
70°-80°	164.3	6.7
80°-90°	41.2	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°	692.8	28.3
0°-40°	1122.2	45.8
0°-60°	1951.8	79.6
0°-90°	2452.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	902	903	902	903	904	86
15°	864	865	865	866	867	244
25°	786	787	788	790	791	362
35°	684	684	686	689	691	428
45°	566	565	568	571	574	436
55°	435	434	437	440	444	389
65°	296	295	297	300	303	293
75°	155	154	154	155	158	164
85°	35	34	34	34	34	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.4	907.4	907.4	907.4	907.4
2.5°	905.9	907.4	905.6	905.9	907.6
5°	901.6	903.3	902.4	902.6	903.5
7.5°	895.6	897.9	896.5	896.9	897.9
10°	888.5	890.2	888.7	889.6	891.3
12.5°	878.3	879.1	878.3	878.7	880.6
15°	864.2	865.2	864.8	865.5	867.2
17.5°	847.7	848.8	848.6	850.1	851.5
20°	829.9	830.0	830.8	832.3	833.8
22.5°	808.8	809.4	810.1	812.2	813.7
25°	785.9	786.8	787.8	789.8	791.3
27.5°	761.7	762.6	763.9	766.2	768.6
30°	736.9	736.9	739.3	741.5	743.8
32.5°	711.9	710.9	713.2	716.0	721.4
35°	684.2	683.5	685.9	688.6	691.4
37.5°	655.5	654.9	657.8	660.6	663.2
40°	626.4	625.6	628.4	631.3	634.1
42.5°	596.5	596.1	598.8	601.6	604.6
45°	565.5	565.3	568.0	570.8	573.8
47.5°	533.9	533.6	536.2	539.2	541.8
50°	501.6	501.3	503.9	506.9	509.7
52.5°	468.4	468.4	470.8	473.4	477.8
55°	434.9	434.4	437.0	440.0	444.1
57.5°	401.1	400.4	402.8	405.8	409.6
60°	366.5	365.8	368.1	371.1	376.3
62.5°	331.6	330.5	332.7	335.5	338.7
65°	296.3	295.2	297.2	299.9	302.9
67.5°	260.8	259.5	261.5	263.8	266.6
70°	225.1	223.8	225.3	227.5	230.1
72.5°	189.6	188.3	189.6	190.5	193.7
75°	154.8	153.5	154.2	155.0	157.8
77.5°	121.0	119.7	121.2	121.6	123.2
80°	89.2	87.9	88.9	89.1	90.4
82.5°	60.3	59.2	60.5	59.6	60.7
85°	34.8	33.8	34.2	33.8	34.4
87.5°	13.7	13.0	13.2	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)