

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: P835622

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835622
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-LD4-1STD-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

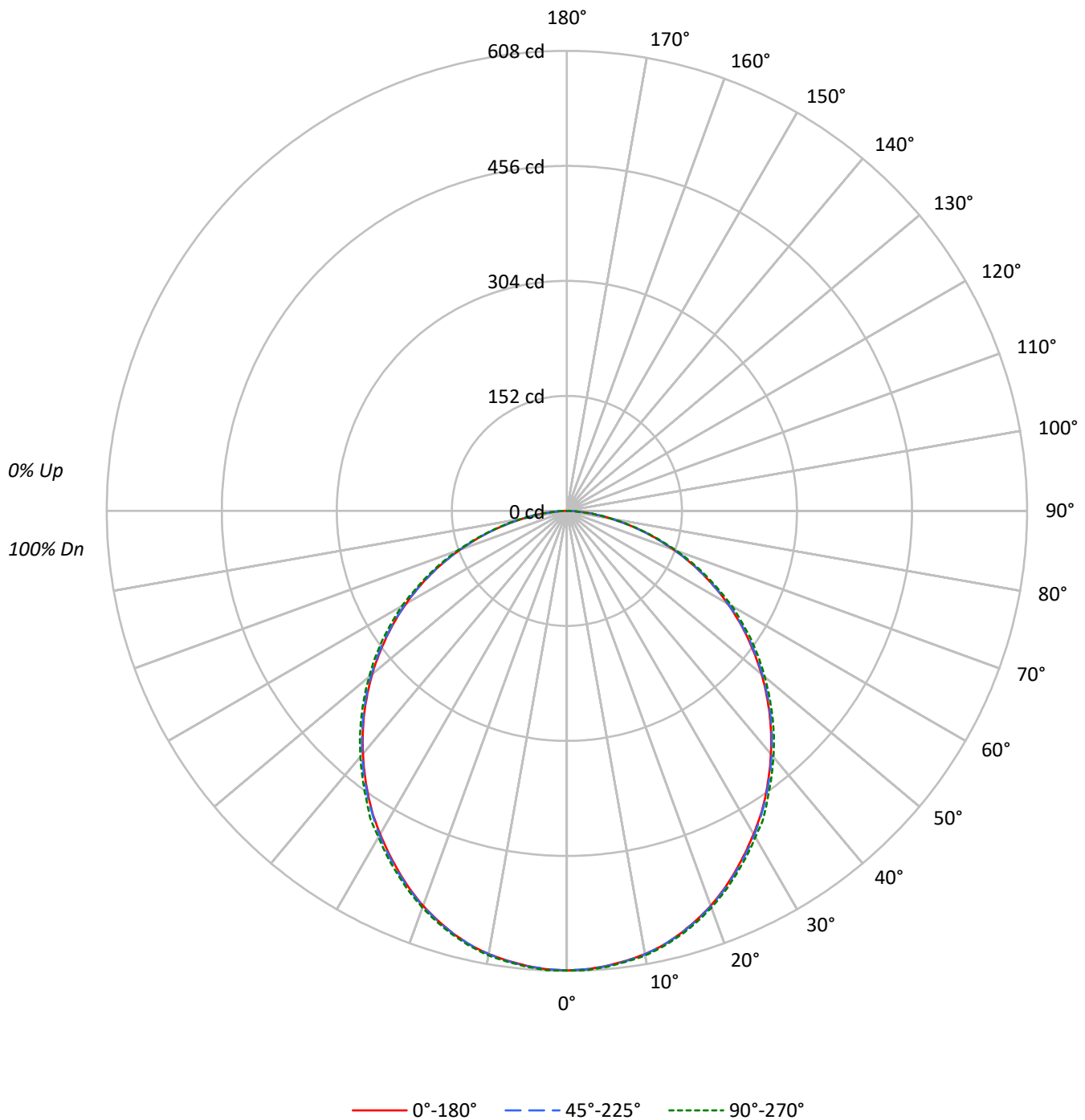
Lumens per Lamp: N/A
Luminaire Lumens: 1641.4 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1635	1635	1635
5°	1630	1632	1634
10°	1625	1626	1630
15°	1612	1613	1617
20°	1591	1592	1598
25°	1562	1566	1573
30°	1533	1538	1547
35°	1505	1509	1520
40°	1473	1478	1491
45°	1441	1447	1462
50°	1406	1412	1428
55°	1366	1372	1395
60°	1321	1326	1356
65°	1263	1267	1291
70°	1186	1186	1212
75°	1077	1074	1098
80°	925	922	938
85°	719	707	710

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.5
10°-20°	163.3	9.9
20°-30°	243.1	14.8
30°-40°	287.5	17.5
40°-50°	293.5	17.9
50°-60°	261.9	16.0
60°-70°	197.3	12.0
70°-80°	110.0	6.7
80°-90°	27.6	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°	463.8	28.3
0°-40°	751.2	45.8
0°-60°	1306.6	79.6
0°-90°	1641.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	604	605	604	604	605	57
15°	578	579	579	579	580	163
25°	526	527	527	529	530	242
35°	458	458	459	461	463	286
45°	379	378	380	382	384	292
55°	291	291	292	294	297	260
65°	198	198	199	201	203	196
75°	104	103	103	104	106	110
85°	23	23	23	23	23	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	607.4	607.4	607.4	607.4	607.4
2.5°	606.4	607.4	606.2	606.4	607.6
5°	603.5	604.7	604.0	604.2	604.8
7.5°	599.5	601.0	600.1	600.4	601.0
10°	594.7	595.9	594.9	595.5	596.6
12.5°	587.9	588.5	587.9	588.2	589.5
15°	578.5	579.1	578.9	579.4	580.5
17.5°	567.5	568.2	568.1	569.1	570.0
20°	555.5	555.6	556.1	557.1	558.1
22.5°	541.4	541.8	542.3	543.7	544.7
25°	526.1	526.7	527.3	528.7	529.7
27.5°	509.8	510.5	511.4	512.9	514.5
30°	493.2	493.2	494.9	496.4	497.9
32.5°	476.5	475.9	477.4	479.3	482.9
35°	458.0	457.5	459.2	460.9	462.8
37.5°	438.8	438.4	440.3	442.2	443.9
40°	419.3	418.8	420.7	422.6	424.5
42.5°	399.3	399.1	400.8	402.7	404.7
45°	378.6	378.4	380.2	382.1	384.1
47.5°	357.4	357.2	358.9	360.9	362.7
50°	335.8	335.5	337.3	339.3	341.2
52.5°	313.5	313.5	315.2	316.9	319.8
55°	291.1	290.8	292.5	294.5	297.3
57.5°	268.5	268.0	269.6	271.7	274.2
60°	245.4	244.9	246.4	248.4	251.9
62.5°	222.0	221.2	222.7	224.6	226.8
65°	198.3	197.6	199.0	200.7	202.7
67.5°	174.6	173.7	175.1	176.6	178.5
70°	150.7	149.8	150.8	152.3	154.1
72.5°	126.9	126.0	126.9	127.5	129.7
75°	103.6	102.7	103.3	103.8	105.6
77.5°	81.0	80.1	81.1	81.4	82.5
80°	59.7	58.9	59.5	59.6	60.5
82.5°	40.4	39.6	40.5	39.9	40.6
85°	23.3	22.6	22.9	22.6	23.0
87.5°	9.2	8.7	8.8	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)