

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: P835681

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3LO-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835681
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-LD4-3LO-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

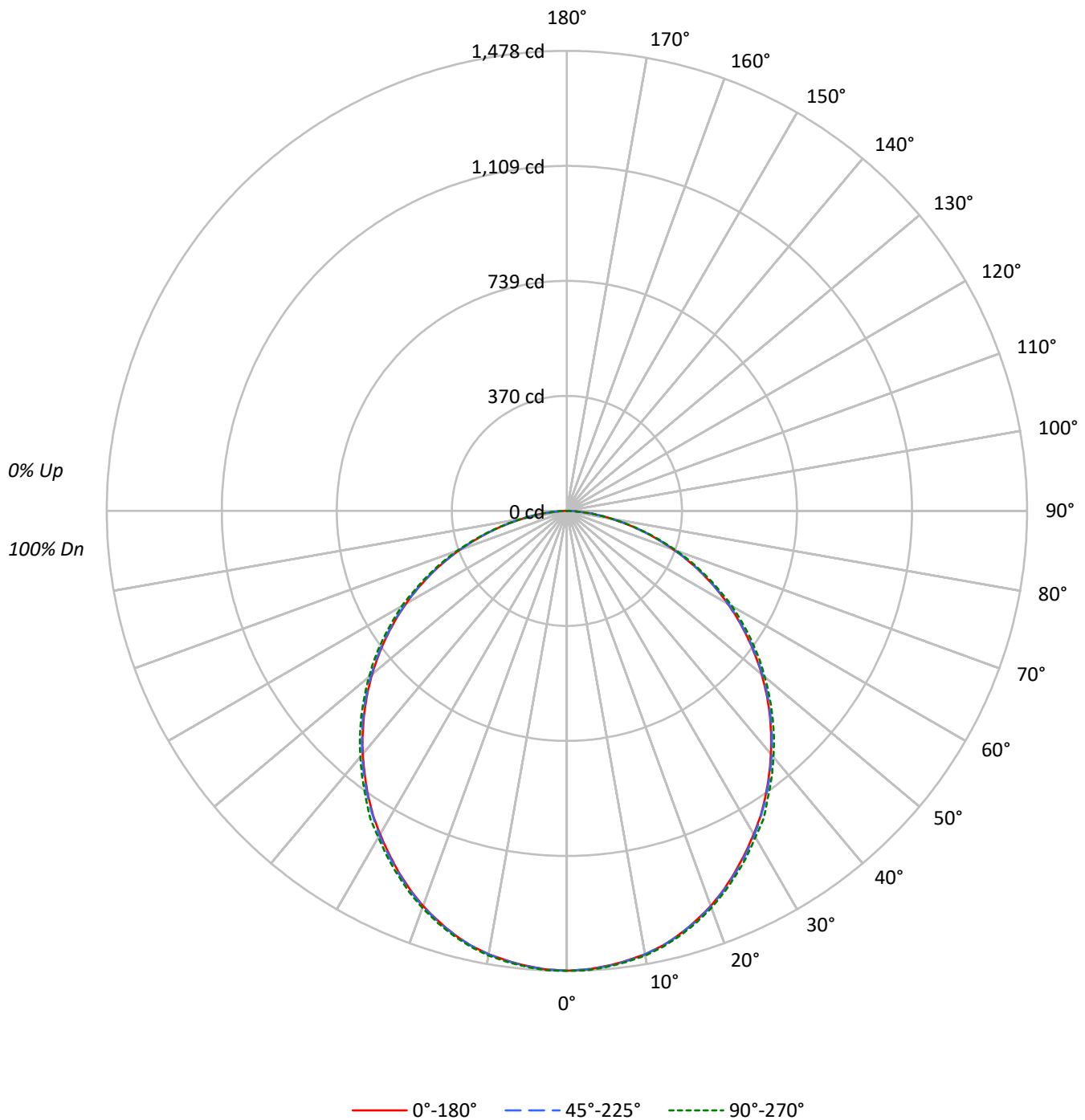
Lumens per Lamp: N/A
Luminaire Lumens: 3991.4 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3975	3975	3975
5°	3965	3968	3973
10°	3952	3953	3965
15°	3919	3922	3933
20°	3868	3873	3887
25°	3798	3807	3825
30°	3727	3739	3762
35°	3659	3668	3697
40°	3582	3594	3626
45°	3503	3518	3554
50°	3419	3434	3473
55°	3322	3338	3392
60°	3211	3224	3297
65°	3071	3081	3139
70°	2883	2885	2947
75°	2620	2611	2671
80°	2252	2242	2280
85°	1748	1720	1729

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.5
10°-20°	397.1	9.9
20°-30°	591.1	14.8
30°-40°	699.0	17.5
40°-50°	713.6	17.9
50°-60°	636.9	16.0
60°-70°	479.7	12.0
70°-80°	267.5	6.7
80°-90°	67.0	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°	1127.7	28.3
0°-40°	1826.8	45.8
0°-60°	3177.2	79.6
0°-90°	3991.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3991.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1468	1470	1469	1469	1471	139
15°	1407	1408	1408	1409	1412	397
25°	1279	1281	1282	1286	1288	589
35°	1114	1113	1117	1121	1126	697
45°	920	920	924	929	934	710
55°	708	707	711	716	723	633
65°	482	480	484	488	493	477
75°	252	250	251	252	257	267
85°	57	55	56	55	56	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.2	1477.2	1477.2	1477.2	1477.2
2.5°	1474.7	1477.2	1474.1	1474.7	1477.5
5°	1467.7	1470.4	1468.9	1469.2	1470.7
7.5°	1457.9	1461.6	1459.4	1460.0	1461.6
10°	1446.3	1449.0	1446.6	1448.1	1450.9
12.5°	1429.8	1431.0	1429.8	1430.4	1433.4
15°	1406.8	1408.3	1407.7	1409.0	1411.7
17.5°	1379.9	1381.7	1381.4	1383.9	1386.0
20°	1350.8	1351.2	1352.4	1354.8	1357.3
22.5°	1316.6	1317.5	1318.7	1322.1	1324.5
25°	1279.3	1280.8	1282.3	1285.7	1288.2
27.5°	1239.8	1241.4	1243.5	1247.2	1251.1
30°	1199.5	1199.5	1203.4	1207.1	1210.8
32.5°	1158.8	1157.3	1160.9	1165.5	1174.4
35°	1113.8	1112.6	1116.6	1120.9	1125.5
37.5°	1067.0	1066.1	1070.7	1075.3	1079.6
40°	1019.6	1018.4	1023.0	1027.6	1032.2
42.5°	971.0	970.4	974.7	979.3	984.2
45°	920.5	920.2	924.5	929.1	934.0
47.5°	869.2	868.6	872.8	877.7	882.0
50°	816.6	816.0	820.2	825.1	829.7
52.5°	762.4	762.4	766.4	770.7	777.7
55°	708.0	707.1	711.4	716.3	723.0
57.5°	652.9	651.7	655.7	660.6	666.7
60°	596.7	595.4	599.1	604.0	612.6
62.5°	539.8	538.0	541.6	546.2	551.4
65°	482.3	480.5	483.8	488.1	493.0
67.5°	424.5	422.3	425.7	429.4	434.0
70°	366.4	364.2	366.7	370.4	374.6
72.5°	308.6	306.4	308.6	310.1	315.3
75°	252.0	249.9	251.1	252.3	256.9
77.5°	197.0	194.8	197.3	197.9	200.6
80°	145.3	143.1	144.7	145.0	147.1
82.5°	98.2	96.3	98.5	96.9	98.8
85°	56.6	55.0	55.7	55.0	56.0
87.5°	22.3	21.1	21.4	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)