

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: P834940

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2LO-20-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834940
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-2LO-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

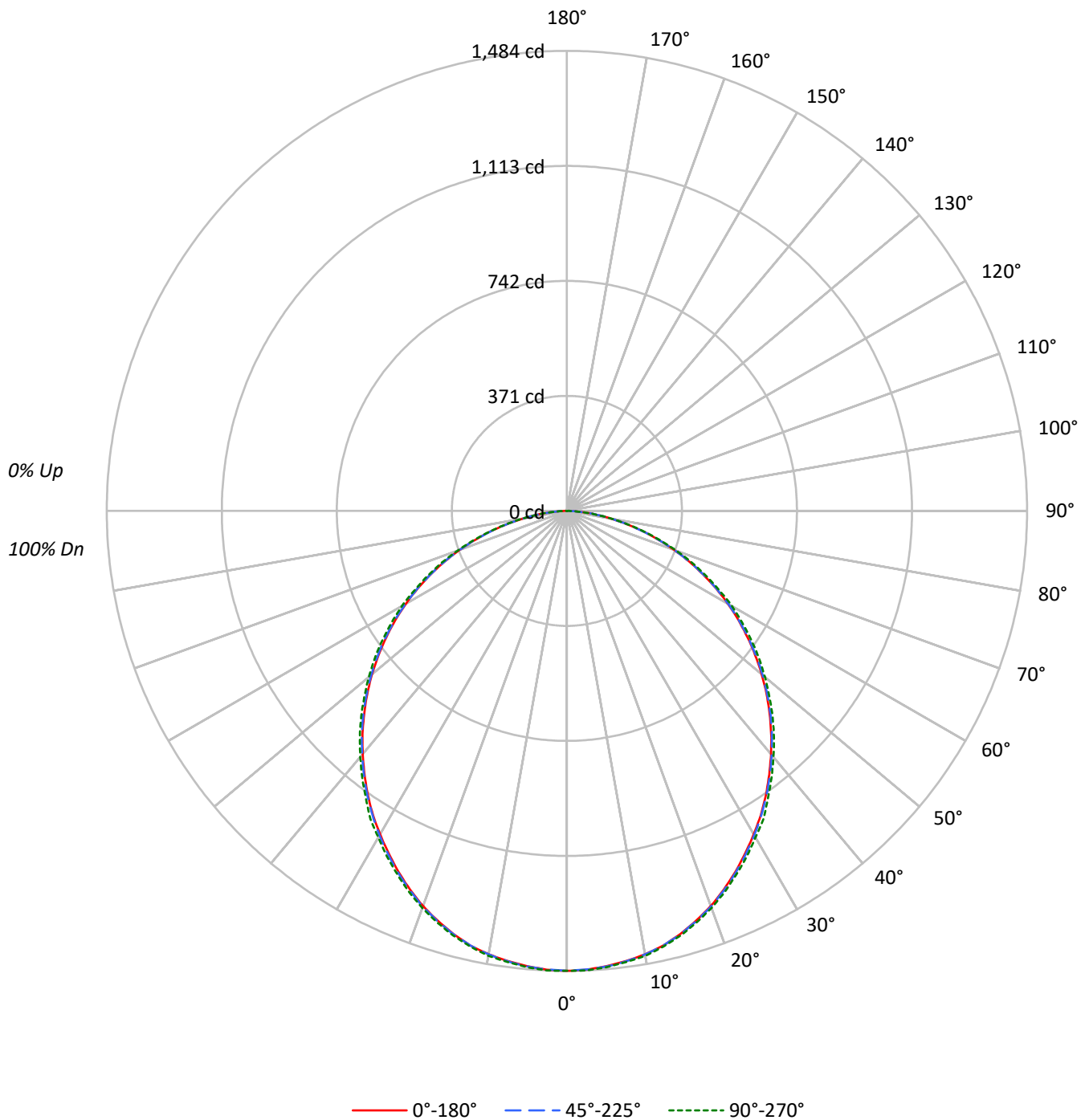
Lumens per Lamp: N/A
Luminaire Lumens: 4008.7 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	1996	1996	1996
5°	1991	1993	1995
10°	1984	1985	1991
15°	1968	1969	1975
20°	1943	1945	1952
25°	1907	1912	1921
30°	1872	1878	1889
35°	1838	1842	1857
40°	1799	1805	1821
45°	1759	1767	1785
50°	1717	1724	1744
55°	1668	1676	1703
60°	1613	1619	1655
65°	1542	1547	1576
70°	1448	1449	1480
75°	1316	1311	1341
80°	1130	1126	1144
85°	877	863	868

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	3.5
10°-20°	398.8	9.9
20°-30°	593.7	14.8
30°-40°	702.1	17.5
40°-50°	716.7	17.9
50°-60°	639.6	16.0
60°-70°	481.8	12.0
70°-80°	268.7	6.7
80°-90°	67.3	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°	1132.6	28.3
0°-40°	1834.7	45.8
0°-60°	3191.0	79.6
0°-90°	4008.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1474	1477	1475	1476	1477	140
15°	1413	1414	1414	1415	1418	398
25°	1285	1286	1288	1291	1294	592
35°	1119	1117	1121	1126	1130	700
45°	924	924	928	933	938	713
55°	711	710	714	719	726	636
65°	484	482	486	490	495	479
75°	253	251	252	253	258	268
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°	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1481.1	1483.6	1480.5	1481.1	1483.9
5°	1474.0	1476.8	1475.3	1475.6	1477.1
7.5°	1464.2	1467.9	1465.7	1466.4	1467.9
10°	1452.5	1455.3	1452.8	1454.4	1457.1
12.5°	1435.9	1437.2	1435.9	1436.6	1439.6
15°	1412.9	1414.4	1413.8	1415.1	1417.8
17.5°	1385.9	1387.7	1387.4	1389.9	1392.0
20°	1356.7	1357.0	1358.2	1360.7	1363.1
22.5°	1322.3	1323.2	1324.4	1327.8	1330.3
25°	1284.8	1286.4	1287.9	1291.3	1293.7
27.5°	1245.2	1246.7	1248.9	1252.6	1256.6
30°	1204.7	1204.7	1208.6	1212.3	1216.0
32.5°	1163.8	1162.3	1166.0	1170.6	1179.5
35°	1118.7	1117.4	1121.4	1125.7	1130.3
37.5°	1071.7	1070.7	1075.3	1080.0	1084.3
40°	1024.0	1022.8	1027.4	1032.0	1036.6
42.5°	975.2	974.6	978.9	983.5	988.4
45°	924.5	924.2	928.5	933.1	938.0
47.5°	872.9	872.3	876.6	881.5	885.8
50°	820.1	819.5	823.8	828.7	833.3
52.5°	765.7	765.7	769.7	774.0	781.1
55°	711.1	710.1	714.4	719.4	726.1
57.5°	655.8	654.5	658.5	663.5	669.6
60°	599.3	598.0	601.7	606.6	615.2
62.5°	542.1	540.3	544.0	548.6	553.8
65°	484.4	482.5	485.9	490.2	495.1
67.5°	426.3	424.2	427.6	431.2	435.9
70°	368.0	365.8	368.3	372.0	376.3
72.5°	309.9	307.8	309.9	311.5	316.7
75°	253.1	250.9	252.2	253.4	258.0
77.5°	197.8	195.7	198.1	198.7	201.5
80°	145.9	143.7	145.3	145.6	147.7
82.5°	98.6	96.8	98.9	97.4	99.2
85°	56.8	55.3	55.9	55.3	56.2
87.5°	22.4	21.2	21.5	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)