

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: P835010

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835010
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-LD4-1STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

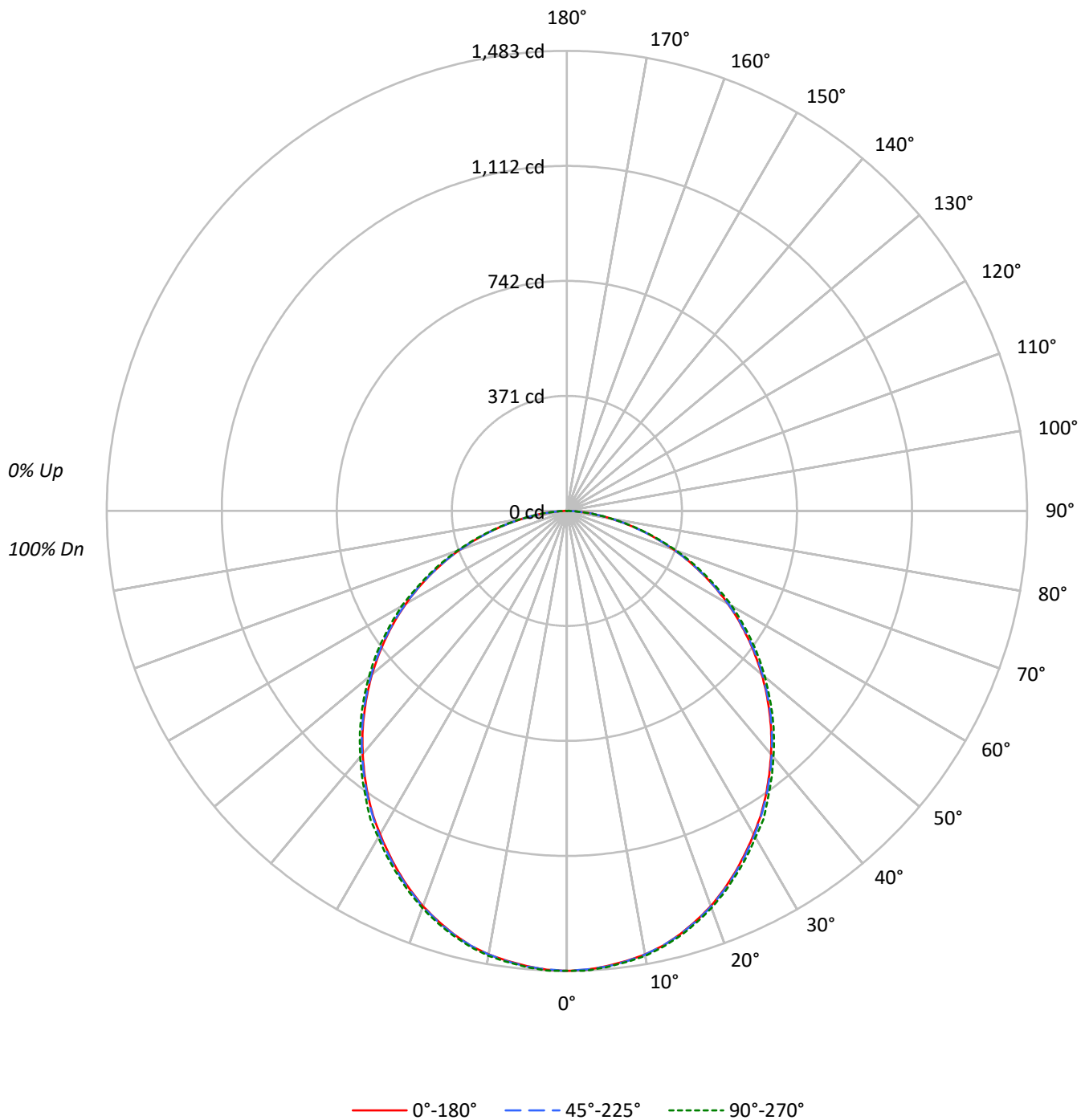
Lumens per Lamp: N/A
Luminaire Lumens: 4006.3 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	1995	1995	1995
5°	1990	1991	1994
10°	1983	1984	1990
15°	1967	1968	1974
20°	1941	1944	1951
25°	1906	1911	1919
30°	1870	1877	1888
35°	1836	1841	1855
40°	1798	1803	1820
45°	1758	1766	1784
50°	1716	1723	1743
55°	1667	1675	1702
60°	1612	1618	1655
65°	1541	1546	1575
70°	1447	1448	1479
75°	1315	1310	1341
80°	1130	1125	1144
85°	877	863	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	3.5
10°-20°	398.5	9.9
20°-30°	593.3	14.8
30°-40°	701.6	17.5
40°-50°	716.3	17.9
50°-60°	639.2	16.0
60°-70°	481.5	12.0
70°-80°	268.5	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°	1131.9	28.3
0°-40°	1833.6	45.8
0°-60°	3189.1	79.6
0°-90°	4006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1473	1476	1474	1475	1476	140
15°	1412	1414	1413	1414	1417	398
25°	1284	1286	1287	1290	1293	592
35°	1118	1117	1121	1125	1130	699
45°	924	924	928	933	938	713
55°	711	710	714	719	726	635
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°	1482.7	1482.7	1482.7	1482.7	1482.7
2.5°	1480.2	1482.7	1479.6	1480.2	1483.0
5°	1473.1	1475.9	1474.4	1474.7	1476.2
7.5°	1463.3	1467.0	1464.8	1465.5	1467.0
10°	1451.6	1454.4	1452.0	1453.5	1456.3
12.5°	1435.1	1436.3	1435.1	1435.7	1438.8
15°	1412.0	1413.6	1413.0	1414.2	1417.0
17.5°	1385.0	1386.9	1386.6	1389.0	1391.2
20°	1355.9	1356.2	1357.4	1359.9	1362.3
22.5°	1321.5	1322.4	1323.6	1327.0	1329.5
25°	1284.0	1285.6	1287.1	1290.5	1292.9
27.5°	1244.4	1246.0	1248.1	1251.8	1255.8
30°	1203.9	1203.9	1207.9	1211.6	1215.3
32.5°	1163.1	1161.6	1165.2	1169.9	1178.8
35°	1118.0	1116.7	1120.7	1125.0	1129.6
37.5°	1071.0	1070.1	1074.7	1079.3	1083.6
40°	1023.4	1022.2	1026.8	1031.4	1036.0
42.5°	974.6	974.0	978.3	982.9	987.8
45°	924.0	923.7	928.0	932.6	937.5
47.5°	872.4	871.8	876.1	881.0	885.3
50°	819.6	819.0	823.3	828.2	832.8
52.5°	765.3	765.3	769.3	773.6	780.6
55°	710.6	709.7	714.0	718.9	725.7
57.5°	655.4	654.1	658.1	663.0	669.2
60°	598.9	597.7	601.3	606.3	614.9
62.5°	541.8	540.0	543.6	548.2	553.5
65°	484.1	482.2	485.6	489.9	494.8
67.5°	426.1	423.9	427.3	431.0	435.6
70°	367.7	365.6	368.1	371.7	376.0
72.5°	309.7	307.6	309.7	311.3	316.5
75°	252.9	250.8	252.0	253.2	257.9
77.5°	197.7	195.5	198.0	198.6	201.4
80°	145.8	143.7	145.2	145.5	147.7
82.5°	98.5	96.7	98.8	97.3	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)