

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: P834974

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-1STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834974
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-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

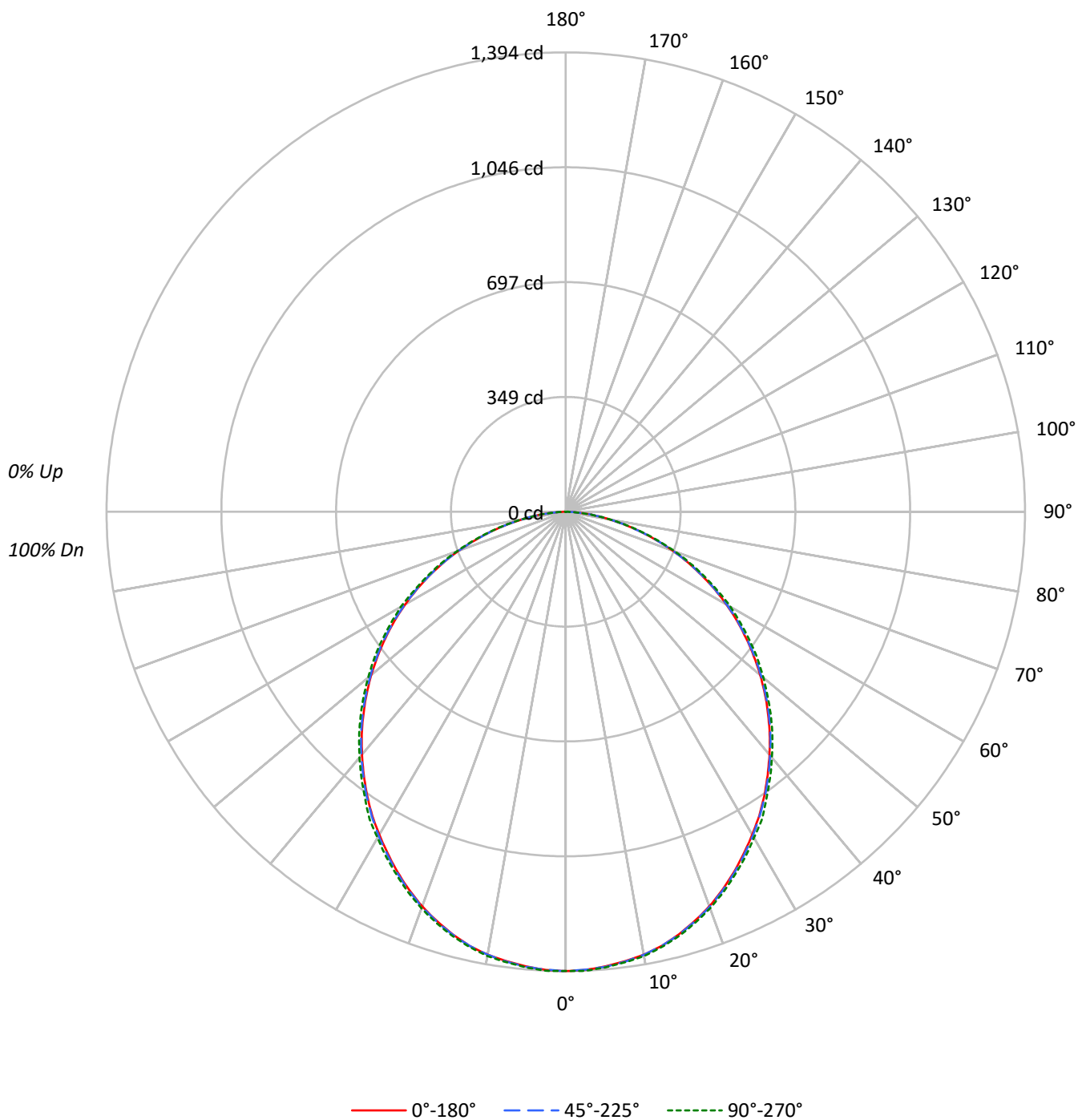
Lumens per Lamp: N/A
Luminaire Lumens: 3765.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1875	1875	1875
5°	1870	1872	1874
10°	1864	1865	1870
15°	1849	1850	1855
20°	1825	1827	1834
25°	1792	1796	1804
30°	1758	1764	1775
35°	1726	1730	1744
40°	1690	1695	1711
45°	1653	1660	1677
50°	1613	1620	1639
55°	1567	1574	1600
60°	1515	1521	1555
65°	1449	1453	1481
70°	1360	1361	1391
75°	1236	1232	1260
80°	1062	1058	1075
85°	824	810	815

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.5
10°-20°	374.6	9.9
20°-30°	557.7	14.8
30°-40°	659.5	17.5
40°-50°	673.3	17.9
50°-60°	600.9	16.0
60°-70°	452.6	12.0
70°-80°	252.4	6.7
80°-90°	63.2	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°	1064.0	28.3
0°-40°	1723.5	45.8
0°-60°	2997.7	79.6
0°-90°	3765.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3765.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1385	1387	1386	1386	1388	132
15°	1327	1329	1328	1329	1332	374
25°	1207	1208	1210	1213	1215	556
35°	1051	1050	1054	1058	1062	657
45°	868	868	872	877	881	670
55°	668	667	671	676	682	597
65°	455	453	456	460	465	450
75°	238	236	237	238	242	252
85°	53	52	52	52	53	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.7	1393.7	1393.7	1393.7	1393.7
2.5°	1391.4	1393.7	1390.8	1391.4	1394.0
5°	1384.7	1387.3	1385.9	1386.2	1387.6
7.5°	1375.5	1379.0	1377.0	1377.5	1379.0
10°	1364.5	1367.1	1364.8	1366.3	1368.9
12.5°	1349.0	1350.1	1349.0	1349.5	1352.4
15°	1327.3	1328.8	1328.2	1329.3	1331.9
17.5°	1301.9	1303.7	1303.4	1305.7	1307.7
20°	1274.5	1274.8	1276.0	1278.3	1280.6
22.5°	1242.2	1243.1	1244.2	1247.4	1249.7
25°	1207.0	1208.4	1209.9	1213.1	1215.4
27.5°	1169.8	1171.2	1173.2	1176.7	1180.5
30°	1131.7	1131.7	1135.4	1138.9	1142.4
32.5°	1093.3	1091.9	1095.3	1099.7	1108.0
35°	1050.9	1049.7	1053.5	1057.5	1061.9
37.5°	1006.7	1005.9	1010.2	1014.5	1018.6
40°	962.0	960.9	965.2	969.5	973.9
42.5°	916.1	915.6	919.6	923.9	928.6
45°	868.5	868.2	872.3	876.6	881.2
47.5°	820.1	819.5	823.5	828.1	832.2
50°	770.4	769.8	773.9	778.5	782.8
52.5°	719.4	719.4	723.1	727.1	733.8
55°	668.0	667.1	671.2	675.8	682.1
57.5°	616.1	614.9	618.6	623.3	629.0
60°	563.0	561.8	565.3	569.9	578.0
62.5°	509.3	507.6	511.0	515.3	520.3
65°	455.0	453.3	456.5	460.5	465.1
67.5°	400.5	398.5	401.7	405.1	409.5
70°	345.7	343.7	346.0	349.4	353.5
72.5°	291.1	289.1	291.1	292.6	297.5
75°	237.8	235.7	236.9	238.1	242.4
77.5°	185.8	183.8	186.1	186.7	189.3
80°	137.1	135.0	136.5	136.8	138.8
82.5°	92.6	90.9	92.9	91.5	93.2
85°	53.4	51.9	52.5	51.9	52.8
87.5°	21.1	19.9	20.2	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)