

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: P834435

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-1HI-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-1HI-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

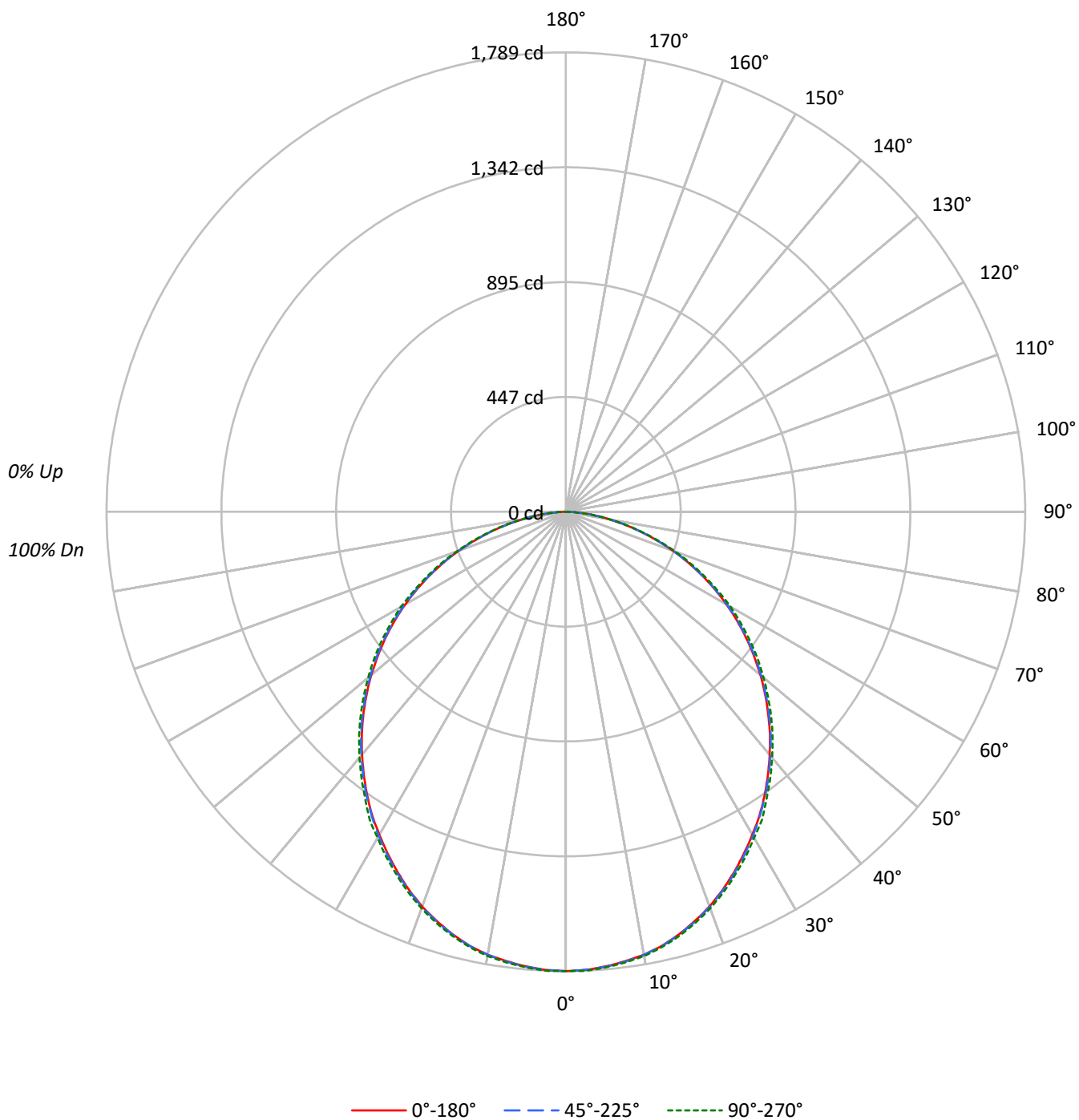
Lumens per Lamp: N/A
Luminaire Lumens: 4833.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	4814	4814	4814
5°	4801	4805	4811
10°	4786	4787	4801
15°	4746	4750	4763
20°	4685	4690	4707
25°	4600	4611	4632
30°	4514	4529	4556
35°	4431	4442	4478
40°	4338	4352	4391
45°	4243	4261	4305
50°	4140	4159	4207
55°	4023	4042	4108
60°	3889	3905	3993
65°	3719	3731	3802
70°	3491	3494	3570
75°	3173	3162	3235
80°	2726	2715	2762
85°	2115	2081	2093

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.5
10°-20°	480.9	9.9
20°-30°	715.9	14.8
30°-40°	846.6	17.5
40°-50°	864.2	17.9
50°-60°	771.3	16.0
60°-70°	580.9	12.0
70°-80°	324.0	6.7
80°-90°	81.2	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°	1365.8	28.3
0°-40°	2212.3	45.8
0°-60°	3847.9	79.6
0°-90°	4833.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1778	1781	1779	1779	1781	169
15°	1704	1706	1705	1706	1710	480
25°	1549	1551	1553	1557	1560	714
35°	1349	1347	1352	1357	1363	844
45°	1115	1114	1120	1125	1131	860
55°	857	856	862	867	876	766
65°	584	582	586	591	597	578
75°	305	303	304	306	311	324
85°	68	67	67	67	68	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.9	1788.9	1788.9	1788.9	1788.9
2.5°	1786.0	1788.9	1785.2	1786.0	1789.3
5°	1777.5	1780.8	1778.9	1779.3	1781.2
7.5°	1765.6	1770.0	1767.5	1768.2	1770.0
10°	1751.5	1754.9	1751.9	1753.7	1757.1
12.5°	1731.5	1733.0	1731.5	1732.3	1736.0
15°	1703.7	1705.6	1704.9	1706.3	1709.7
17.5°	1671.2	1673.4	1673.0	1676.0	1678.6
20°	1636.0	1636.3	1637.8	1640.8	1643.7
22.5°	1594.5	1595.6	1597.1	1601.2	1604.1
25°	1549.3	1551.2	1553.0	1557.1	1560.0
27.5°	1501.5	1503.4	1506.0	1510.4	1515.2
30°	1452.6	1452.6	1457.4	1461.9	1466.3
32.5°	1403.4	1401.5	1406.0	1411.5	1422.3
35°	1348.9	1347.4	1352.3	1357.4	1363.0
37.5°	1292.3	1291.1	1296.7	1302.3	1307.4
40°	1234.8	1233.4	1238.9	1244.5	1250.0
42.5°	1176.0	1175.2	1180.4	1186.0	1191.9
45°	1114.8	1114.5	1119.7	1125.2	1131.1
47.5°	1052.6	1051.9	1057.1	1063.0	1068.2
50°	988.9	988.2	993.4	999.3	1004.8
52.5°	923.4	923.4	928.2	933.4	941.9
55°	857.4	856.3	861.5	867.4	875.6
57.5°	790.8	789.3	794.1	800.0	807.4
60°	722.6	721.1	725.6	731.5	741.9
62.5°	653.7	651.5	655.9	661.5	667.8
65°	584.1	581.9	585.9	591.1	597.1
67.5°	514.1	511.5	515.6	520.0	525.6
70°	443.7	441.1	444.1	448.5	453.7
72.5°	373.7	371.1	373.7	375.6	381.9
75°	305.2	302.6	304.1	305.6	311.1
77.5°	238.5	235.9	238.9	239.6	243.0
80°	175.9	173.3	175.2	175.6	178.2
82.5°	118.9	116.7	119.3	117.4	119.6
85°	68.5	66.7	67.4	66.7	67.8
87.5°	27.0	25.6	25.9	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)