

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: P834409

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2LO-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834409
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-LD4-2LO-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

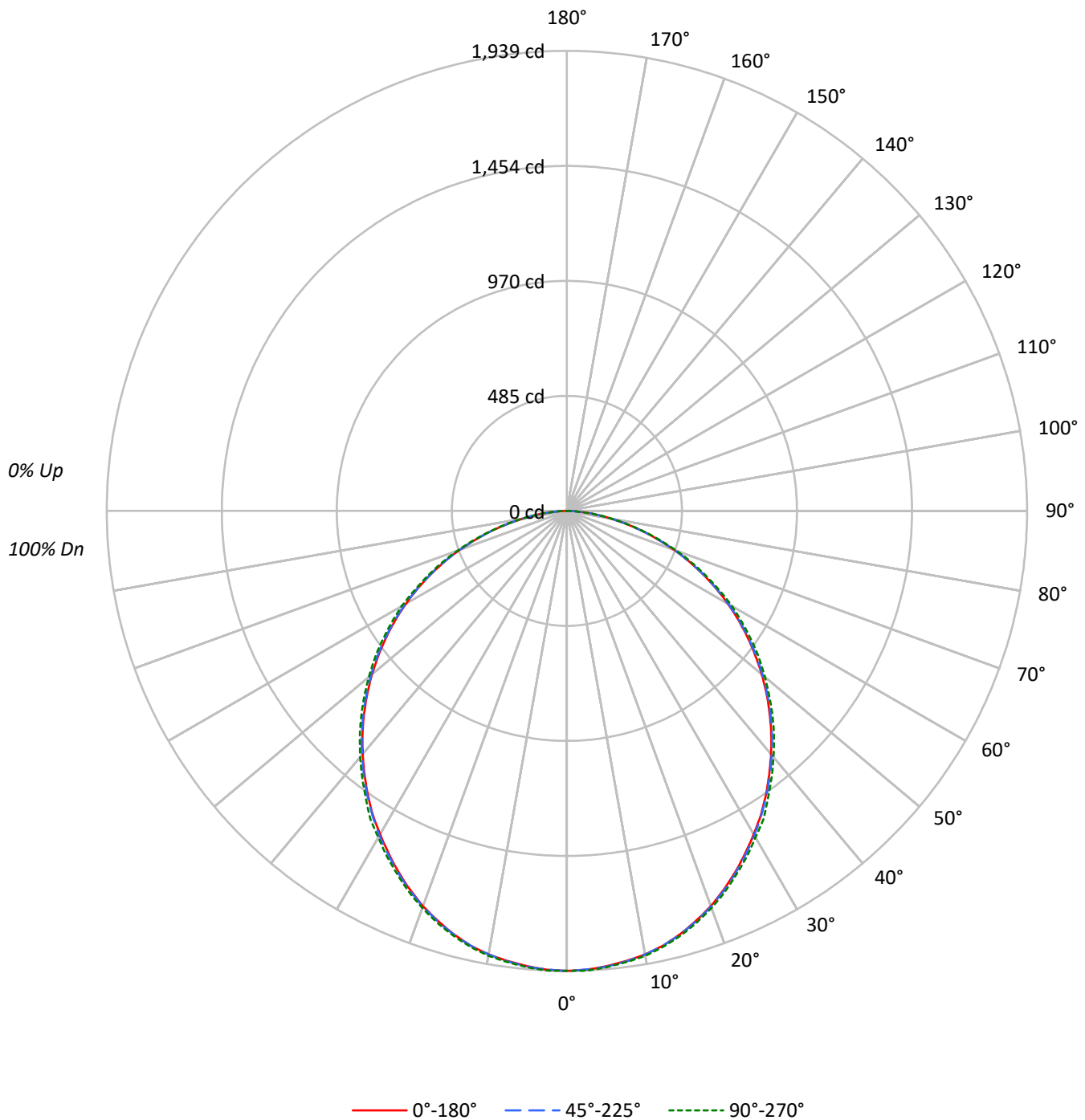
Lumens per Lamp: N/A
Luminaire Lumens: 5238.5 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5217	5217	5217
5°	5203	5207	5214
10°	5187	5188	5203
15°	5144	5147	5162
20°	5077	5083	5101
25°	4985	4997	5020
30°	4891	4908	4938
35°	4802	4814	4852
40°	4701	4716	4759
45°	4598	4618	4665
50°	4487	4507	4559
55°	4359	4380	4452
60°	4215	4232	4327
65°	4031	4043	4120
70°	3784	3787	3869
75°	3438	3426	3506
80°	2955	2943	2992
85°	2294	2257	2269

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.5
10°-20°	521.1	9.9
20°-30°	775.8	14.8
30°-40°	917.4	17.5
40°-50°	936.6	17.9
50°-60°	835.8	16.0
60°-70°	629.5	12.0
70°-80°	351.1	6.7
80°-90°	88.0	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°	1480.1	28.3
0°-40°	2397.5	45.8
0°-60°	4169.9	79.6
0°-90°	5238.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5238.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1926	1930	1928	1928	1930	183
15°	1846	1848	1848	1849	1853	520
25°	1679	1681	1683	1687	1691	773
35°	1462	1460	1465	1471	1477	914
45°	1208	1208	1213	1219	1226	932
55°	929	928	934	940	949	831
65°	633	631	635	641	647	626
75°	331	328	330	331	337	351
85°	74	72	73	72	74	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1935.5	1938.7	1934.7	1935.5	1939.1
5°	1926.2	1929.8	1927.8	1928.2	1930.2
7.5°	1913.4	1918.2	1915.4	1916.2	1918.2
10°	1898.1	1901.7	1898.5	1900.5	1904.1
12.5°	1876.5	1878.1	1876.5	1877.3	1881.3
15°	1846.3	1848.4	1847.6	1849.2	1852.8
17.5°	1811.0	1813.4	1813.0	1816.2	1819.1
20°	1772.9	1773.3	1774.9	1778.1	1781.3
22.5°	1727.9	1729.1	1730.8	1735.2	1738.4
25°	1679.0	1681.0	1683.0	1687.4	1690.6
27.5°	1627.2	1629.2	1632.0	1636.8	1642.0
30°	1574.2	1574.2	1579.4	1584.2	1589.1
32.5°	1520.8	1518.8	1523.6	1529.7	1541.3
35°	1461.8	1460.2	1465.4	1471.1	1477.1
37.5°	1400.4	1399.2	1405.2	1411.3	1416.9
40°	1338.2	1336.6	1342.6	1348.6	1354.7
42.5°	1274.4	1273.6	1279.2	1285.2	1291.6
45°	1208.2	1207.8	1213.4	1219.4	1225.8
47.5°	1140.7	1139.9	1145.5	1152.0	1157.6
50°	1071.7	1070.9	1076.5	1082.9	1088.9
52.5°	1000.6	1000.6	1005.9	1011.5	1020.7
55°	929.2	928.0	933.6	940.0	948.9
57.5°	856.9	855.3	860.6	867.0	875.0
60°	783.1	781.5	786.3	792.7	804.0
62.5°	708.4	706.0	710.8	716.9	723.7
65°	633.0	630.6	635.0	640.6	647.0
67.5°	557.1	554.3	558.7	563.5	569.6
70°	480.9	478.0	481.3	486.1	491.7
72.5°	405.0	402.2	405.0	407.0	413.8
75°	330.7	327.9	329.5	331.1	337.2
77.5°	258.5	255.7	258.9	259.7	263.3
80°	190.7	187.8	189.9	190.3	193.1
82.5°	128.8	126.4	129.2	127.2	129.6
85°	74.3	72.2	73.1	72.2	73.5
87.5°	29.3	27.7	28.1	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)