

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: P835613

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-4STD-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835613
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-4STD-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

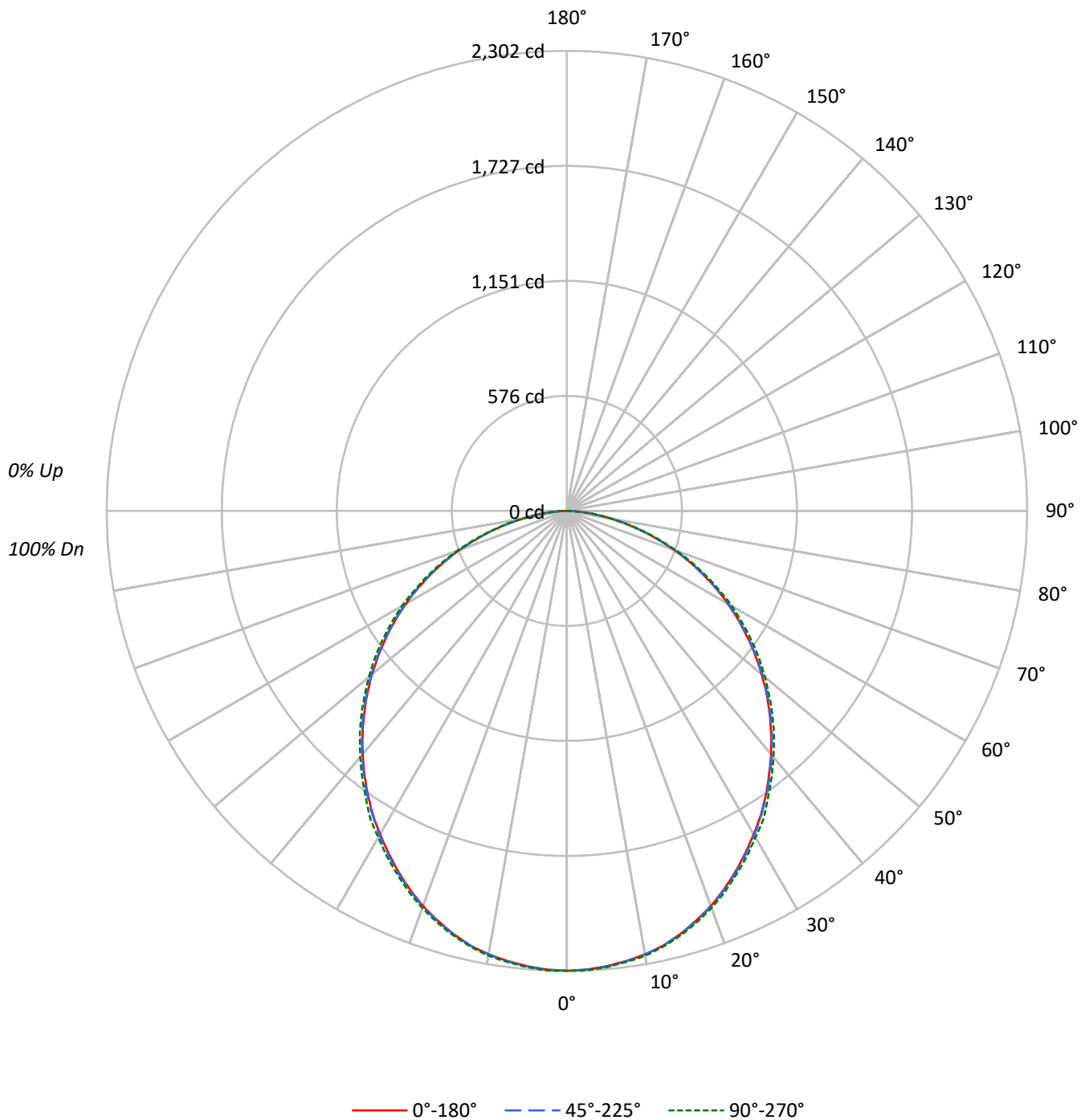
Lumens per Lamp: N/A
Luminaire Lumens: 6218.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	6192	6192	6192
5°	6176	6181	6189
10°	6156	6158	6176
15°	6106	6109	6127
20°	6026	6033	6055
25°	5917	5932	5958
30°	5806	5826	5861
35°	5700	5714	5760
40°	5580	5598	5649
45°	5458	5481	5537
50°	5326	5349	5411
55°	5174	5199	5284
60°	5003	5023	5136
65°	4784	4799	4890
70°	4491	4494	4592
75°	4082	4066	4161
80°	3507	3493	3552
85°	2720	2677	2692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	3.5
10°-20°	618.5	9.9
20°-30°	920.8	14.8
30°-40°	1089.0	17.5
40°-50°	1111.7	17.9
50°-60°	992.1	16.0
60°-70°	747.3	12.0
70°-80°	416.7	6.7
80°-90°	104.4	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°	1756.8	28.3
0°-40°	2845.8	45.8
0°-60°	4949.6	79.6
0°-90°	6218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2286	2291	2288	2289	2291	217
15°	2192	2194	2193	2195	2199	618
25°	1993	1995	1998	2003	2007	918
35°	1735	1733	1739	1746	1753	1085
45°	1434	1434	1440	1447	1455	1106
55°	1103	1102	1108	1116	1126	986
65°	751	748	754	760	768	743
75°	393	389	391	393	400	416
85°	88	86	87	86	87	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.2	2301.2	2301.2	2301.2	2301.2
2.5°	2297.3	2301.2	2296.4	2297.3	2301.6
5°	2286.4	2290.7	2288.3	2288.8	2291.2
7.5°	2271.1	2276.9	2273.5	2274.5	2276.9
10°	2253.0	2257.3	2253.5	2255.9	2260.2
12.5°	2227.3	2229.2	2227.3	2228.3	2233.0
15°	2191.6	2194.0	2193.0	2194.9	2199.2
17.5°	2149.7	2152.5	2152.0	2155.8	2159.2
20°	2104.4	2104.9	2106.8	2110.6	2114.4
22.5°	2051.0	2052.5	2054.4	2059.6	2063.4
25°	1992.9	1995.3	1997.7	2002.9	2006.7
27.5°	1931.4	1933.8	1937.2	1942.9	1949.1
30°	1868.6	1868.6	1874.8	1880.5	1886.2
32.5°	1805.2	1802.8	1808.5	1815.7	1829.5
35°	1735.2	1733.3	1739.4	1746.1	1753.3
37.5°	1662.3	1660.8	1668.0	1675.1	1681.8
40°	1588.4	1586.5	1593.7	1600.8	1608.0
42.5°	1512.7	1511.7	1518.4	1525.5	1533.2
45°	1434.1	1433.6	1440.2	1447.4	1455.0
47.5°	1354.0	1353.1	1359.7	1367.4	1374.0
50°	1272.1	1271.1	1277.8	1285.4	1292.6
52.5°	1187.7	1187.7	1193.9	1200.6	1211.6
55°	1102.9	1101.5	1108.2	1115.8	1126.3
57.5°	1017.2	1015.3	1021.5	1029.1	1038.6
60°	929.5	927.6	933.3	941.0	954.3
62.5°	840.9	838.0	843.8	850.9	859.0
65°	751.3	748.5	753.7	760.4	768.0
67.5°	661.3	658.0	663.2	668.9	676.1
70°	570.8	567.4	571.2	577.0	583.6
72.5°	480.7	477.4	480.7	483.1	491.2
75°	392.6	389.2	391.1	393.1	400.2
77.5°	306.8	303.5	307.3	308.3	312.5
80°	226.3	223.0	225.4	225.8	229.2
82.5°	152.9	150.1	153.4	151.0	153.9
85°	88.1	85.8	86.7	85.8	87.2
87.5°	34.8	32.9	33.4	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)