

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: P835120

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-2LO-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835120
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-LD4-2LO-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

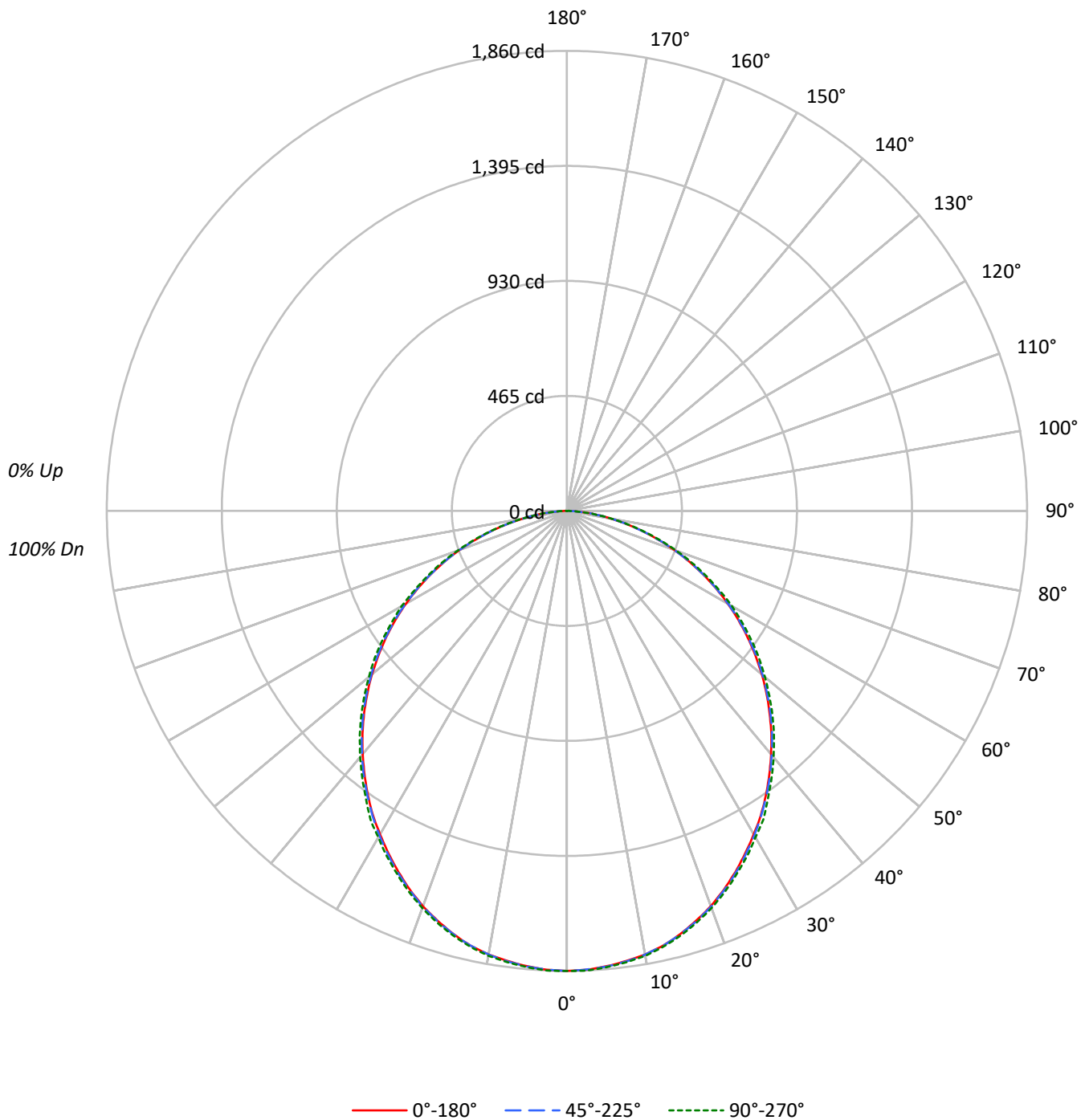
Lumens per Lamp: N/A
Luminaire Lumens: 5025.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2503	2503	2503
5°	2496	2498	2501
10°	2488	2489	2496
15°	2467	2469	2476
20°	2435	2438	2447
25°	2391	2397	2408
30°	2346	2354	2369
35°	2304	2309	2328
40°	2255	2262	2283
45°	2206	2215	2238
50°	2152	2162	2187
55°	2091	2101	2135
60°	2022	2030	2076
65°	1933	1940	1976
70°	1815	1816	1856
75°	1650	1644	1682
80°	1417	1411	1435
85°	1099	1082	1088

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	3.5
10°-20°	500.0	9.9
20°-30°	744.3	14.8
30°-40°	880.2	17.5
40°-50°	898.5	17.9
50°-60°	801.9	16.0
60°-70°	604.0	12.0
70°-80°	336.8	6.7
80°-90°	84.4	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°	1420.0	28.3
0°-40°	2300.2	45.8
0°-60°	4000.6	79.6
0°-90°	5025.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5025.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1848	1852	1850	1850	1852	176
15°	1771	1773	1773	1774	1778	499
25°	1611	1613	1615	1619	1622	742
35°	1402	1401	1406	1411	1417	877
45°	1159	1159	1164	1170	1176	894
55°	892	890	896	902	910	797
65°	607	605	609	615	621	601
75°	317	315	316	318	324	336
85°	71	69	70	69	70	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1856.9	1860.0	1856.1	1856.9	1860.4
5°	1848.0	1851.5	1849.6	1850.0	1851.9
7.5°	1835.7	1840.3	1837.6	1838.4	1840.3
10°	1821.1	1824.5	1821.5	1823.4	1826.9
12.5°	1800.3	1801.8	1800.3	1801.1	1804.9
15°	1771.4	1773.3	1772.6	1774.1	1777.6
17.5°	1737.5	1739.8	1739.4	1742.5	1745.2
20°	1700.9	1701.3	1702.9	1705.9	1709.0
22.5°	1657.8	1659.0	1660.5	1664.7	1667.8
25°	1610.8	1612.7	1614.7	1618.9	1622.0
27.5°	1561.1	1563.1	1565.8	1570.4	1575.4
30°	1510.3	1510.3	1515.3	1519.9	1524.6
32.5°	1459.1	1457.2	1461.8	1467.6	1478.7
35°	1402.5	1401.0	1406.0	1411.3	1417.1
37.5°	1343.6	1342.4	1348.2	1354.0	1359.4
40°	1283.9	1282.3	1288.1	1293.9	1299.7
42.5°	1222.7	1221.9	1227.3	1233.1	1239.2
45°	1159.1	1158.7	1164.1	1169.9	1176.1
47.5°	1094.4	1093.6	1099.0	1105.2	1110.6
50°	1028.2	1027.4	1032.8	1039.0	1044.7
52.5°	960.0	960.0	965.0	970.4	979.3
55°	891.5	890.3	895.7	901.9	910.3
57.5°	822.2	820.6	825.6	831.8	839.5
60°	751.3	749.8	754.4	760.5	771.3
62.5°	679.7	677.4	682.0	687.8	694.3
65°	607.3	605.0	609.2	614.6	620.8
67.5°	534.5	531.8	536.0	540.7	546.4
70°	461.3	458.6	461.7	466.3	471.7
72.5°	388.6	385.9	388.6	390.5	397.0
75°	317.3	314.6	316.2	317.7	323.5
77.5°	248.0	245.3	248.4	249.2	252.6
80°	182.9	180.2	182.1	182.5	185.2
82.5°	123.6	121.3	124.0	122.1	124.4
85°	71.2	69.3	70.1	69.3	70.5
87.5°	28.1	26.6	27.0	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)