

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: P835719

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3HI-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835719
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-LD4-3HI-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

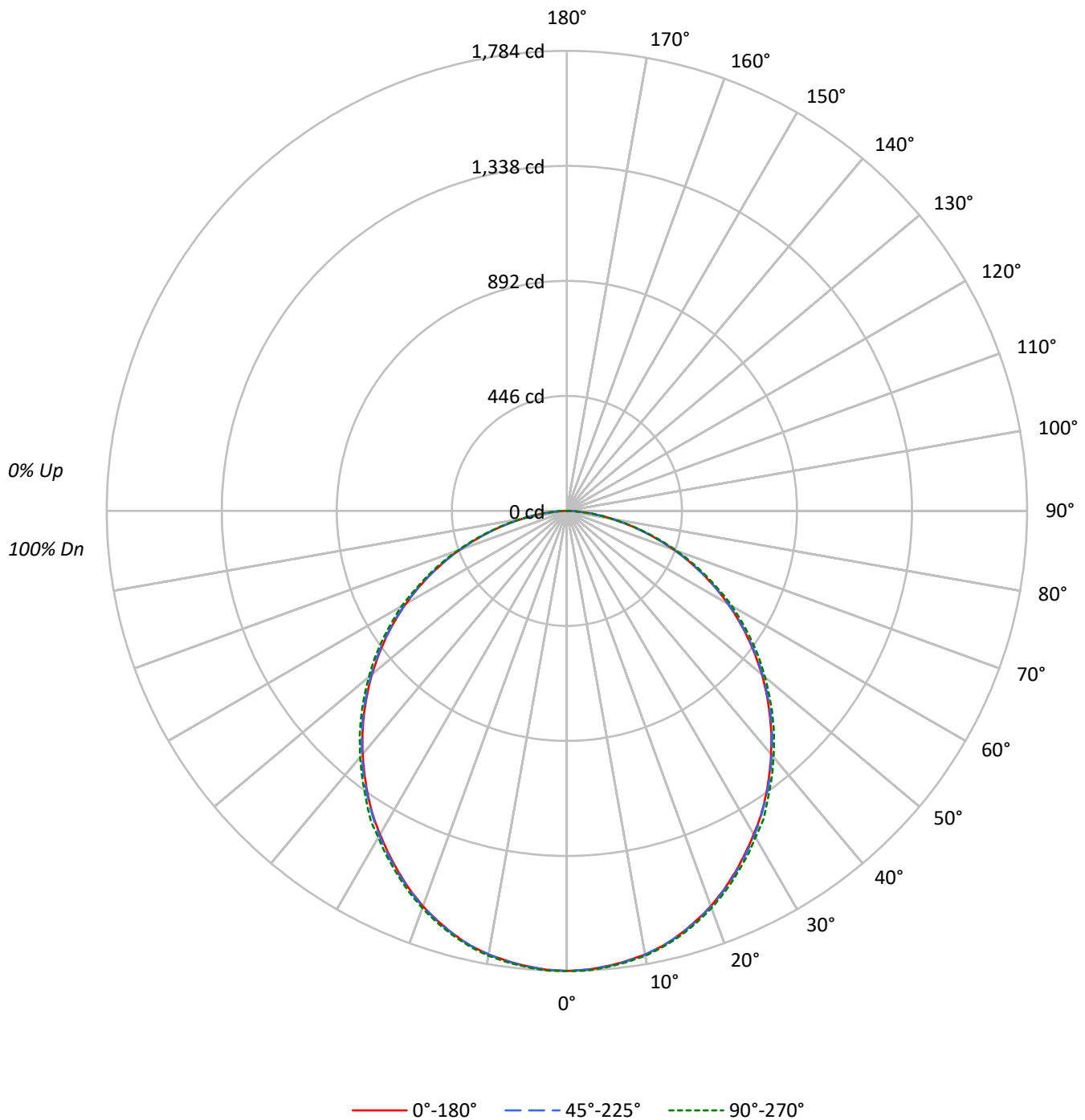
Lumens per Lamp: N/A
Luminaire Lumens: 4820.5 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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°	4801	4801	4801
5°	4788	4792	4798
10°	4773	4774	4788
15°	4733	4736	4750
20°	4672	4677	4694
25°	4587	4598	4619
30°	4501	4516	4543
35°	4419	4430	4465
40°	4326	4340	4379
45°	4231	4249	4293
50°	4129	4147	4195
55°	4011	4031	4096
60°	3878	3894	3982
65°	3709	3720	3791
70°	3482	3484	3560
75°	3164	3152	3226
80°	2718	2707	2754
85°	2109	2075	2087

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	3.5
10°-20°	479.5	9.9
20°-30°	713.9	14.8
30°-40°	844.2	17.5
40°-50°	861.8	17.9
50°-60°	769.1	16.0
60°-70°	579.3	12.0
70°-80°	323.1	6.7
80°-90°	80.9	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°	1362.0	28.3
0°-40°	2206.2	45.8
0°-60°	3837.1	79.6
0°-90°	4820.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4820.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1772	1776	1774	1774	1776	168
15°	1699	1701	1700	1702	1705	479
25°	1545	1547	1549	1553	1556	712
35°	1345	1344	1348	1354	1359	841
45°	1112	1111	1116	1122	1128	858
55°	855	854	859	865	873	764
65°	582	580	584	590	595	576
75°	304	302	303	305	310	323
85°	68	66	67	66	68	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.0	1784.0	1784.0	1784.0	1784.0
2.5°	1781.0	1784.0	1780.3	1781.0	1784.3
5°	1772.5	1775.8	1774.0	1774.3	1776.2
7.5°	1760.7	1765.1	1762.5	1763.3	1765.1
10°	1746.6	1750.0	1747.0	1748.9	1752.2
12.5°	1726.7	1728.2	1726.7	1727.4	1731.1
15°	1699.0	1700.8	1700.1	1701.6	1704.9
17.5°	1666.5	1668.7	1668.3	1671.3	1673.9
20°	1631.4	1631.8	1633.3	1636.2	1639.2
22.5°	1590.0	1591.2	1592.6	1596.7	1599.6
25°	1545.0	1546.8	1548.7	1552.7	1555.7
27.5°	1497.3	1499.2	1501.8	1506.2	1511.0
30°	1448.6	1448.6	1453.4	1457.8	1462.2
32.5°	1399.5	1397.6	1402.0	1407.6	1418.3
35°	1345.2	1343.7	1348.5	1353.7	1359.2
37.5°	1288.7	1287.5	1293.1	1298.6	1303.8
40°	1231.4	1229.9	1235.5	1241.0	1246.5
42.5°	1172.7	1171.9	1177.1	1182.7	1188.6
45°	1111.7	1111.4	1116.5	1122.1	1128.0
47.5°	1049.7	1048.9	1054.1	1060.0	1065.2
50°	986.2	985.4	990.6	996.5	1002.0
52.5°	920.8	920.8	925.6	930.8	939.3
55°	855.0	853.9	859.1	865.0	873.1
57.5°	788.6	787.1	791.9	797.8	805.2
60°	720.6	719.1	723.6	729.5	739.8
62.5°	651.9	649.7	654.1	659.7	665.9
65°	582.5	580.2	584.3	589.5	595.4
67.5°	512.7	510.1	514.1	518.6	524.1
70°	442.5	439.9	442.8	447.3	452.5
72.5°	372.7	370.1	372.7	374.5	380.8
75°	304.3	301.8	303.2	304.7	310.3
77.5°	237.9	235.3	238.2	239.0	242.3
80°	175.4	172.9	174.7	175.1	177.7
82.5°	118.6	116.3	118.9	117.1	119.3
85°	68.3	66.5	67.2	66.5	67.6
87.5°	27.0	25.5	25.9	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)