

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: P835610

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

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835610
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-LD4-3STD-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

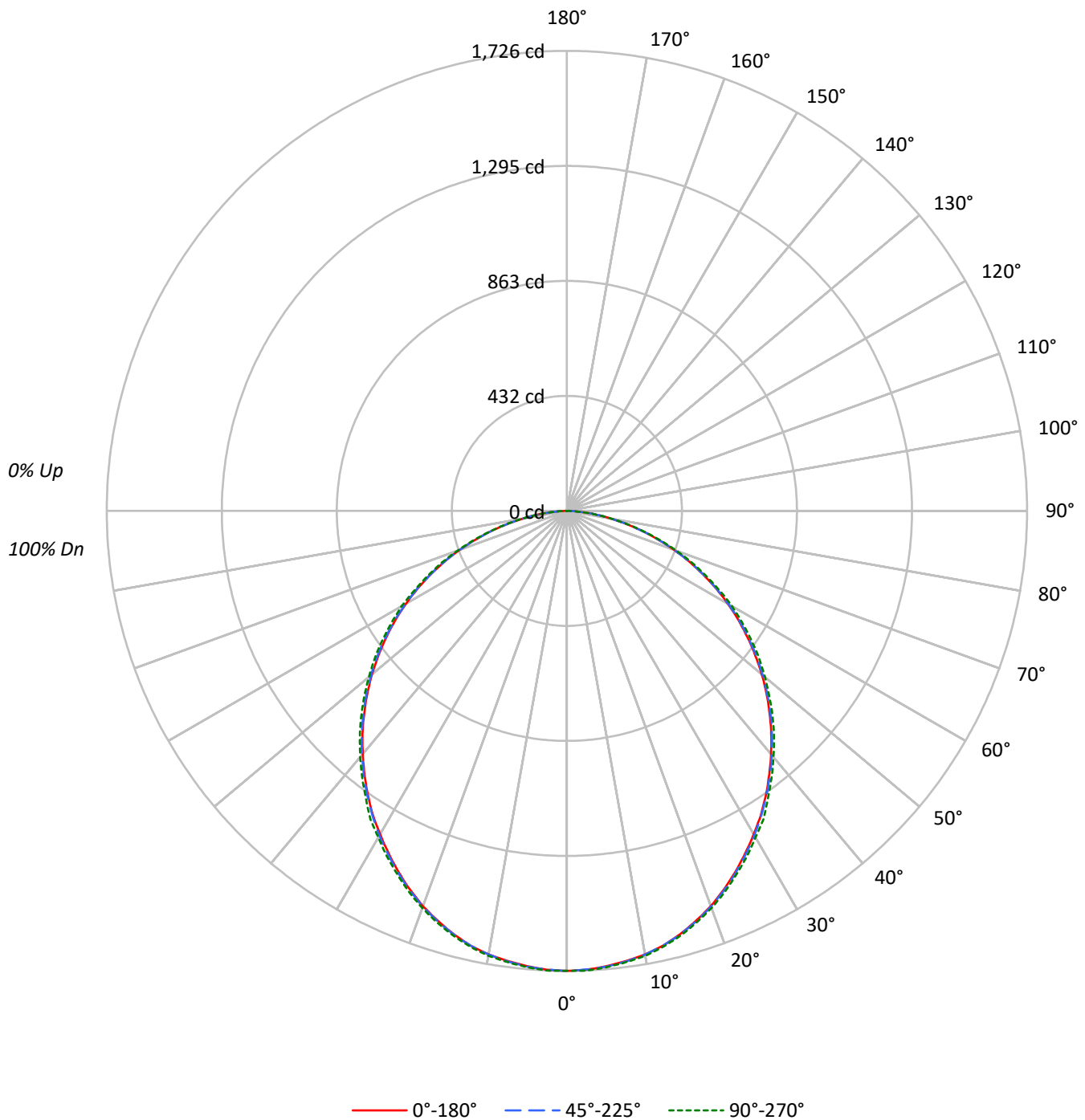
Lumens per Lamp: N/A
Luminaire Lumens: 4663.1 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4644	4644	4644
5°	4632	4636	4641
10°	4617	4618	4632
15°	4579	4582	4595
20°	4519	4524	4541
25°	4437	4448	4468
30°	4354	4369	4395
35°	4275	4285	4319
40°	4184	4198	4236
45°	4093	4110	4153
50°	3994	4012	4058
55°	3880	3899	3963
60°	3752	3767	3852
65°	3587	3599	3668
70°	3367	3371	3444
75°	3061	3049	3120
80°	2630	2619	2664
85°	2041	2007	2019

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.5
10°-20°	463.9	9.9
20°-30°	690.6	14.8
30°-40°	816.7	17.5
40°-50°	833.7	17.9
50°-60°	744.0	16.0
60°-70°	560.4	12.0
70°-80°	312.5	6.7
80°-90°	78.3	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°	1317.5	28.3
0°-40°	2134.1	45.8
0°-60°	3711.9	79.6
0°-90°	4663.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4663.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1715	1718	1716	1716	1718	163
15°	1644	1645	1645	1646	1649	463
25°	1494	1496	1498	1502	1505	689
35°	1301	1300	1304	1310	1315	814
45°	1075	1075	1080	1085	1091	830
55°	827	826	831	837	845	739
65°	563	561	565	570	576	557
75°	294	292	293	295	300	312
85°	66	64	65	64	65	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.7	1725.7	1725.7	1725.7	1725.7
2.5°	1722.9	1725.7	1722.1	1722.9	1726.1
5°	1714.6	1717.9	1716.1	1716.4	1718.2
7.5°	1703.2	1707.5	1705.0	1705.7	1707.5
10°	1689.6	1692.8	1690.0	1691.8	1695.0
12.5°	1670.3	1671.8	1670.3	1671.0	1674.6
15°	1643.5	1645.3	1644.6	1646.0	1649.3
17.5°	1612.1	1614.2	1613.9	1616.7	1619.2
20°	1578.2	1578.5	1579.9	1582.8	1585.7
22.5°	1538.1	1539.2	1540.6	1544.6	1547.4
25°	1494.5	1496.3	1498.1	1502.0	1504.9
27.5°	1448.5	1450.2	1452.7	1457.0	1461.7
30°	1401.3	1401.3	1405.9	1410.2	1414.5
32.5°	1353.8	1352.0	1356.3	1361.6	1372.0
35°	1301.3	1299.8	1304.5	1309.5	1314.8
37.5°	1246.6	1245.5	1250.9	1256.2	1261.2
40°	1191.2	1189.8	1195.1	1200.5	1205.9
42.5°	1134.4	1133.7	1138.7	1144.0	1149.8
45°	1075.4	1075.1	1080.1	1085.4	1091.2
47.5°	1015.4	1014.7	1019.7	1025.4	1030.4
50°	954.0	953.3	958.3	964.0	969.3
52.5°	890.7	890.7	895.4	900.4	908.6
55°	827.1	826.1	831.1	836.8	844.6
57.5°	762.8	761.4	766.0	771.7	778.9
60°	697.1	695.6	699.9	705.6	715.7
62.5°	630.6	628.5	632.8	638.1	644.2
65°	563.4	561.3	565.2	570.2	576.0
67.5°	495.9	493.4	497.3	501.6	507.0
70°	428.0	425.5	428.4	432.7	437.7
72.5°	360.5	358.0	360.5	362.3	368.4
75°	294.4	291.9	293.3	294.8	300.1
77.5°	230.1	227.6	230.5	231.2	234.4
80°	169.7	167.2	169.0	169.4	171.9
82.5°	114.7	112.5	115.0	113.3	115.4
85°	66.1	64.3	65.0	64.3	65.4
87.5°	26.1	24.7	25.0	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)