

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: P835706

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5STD-20-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835706
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-LD4-5STD-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

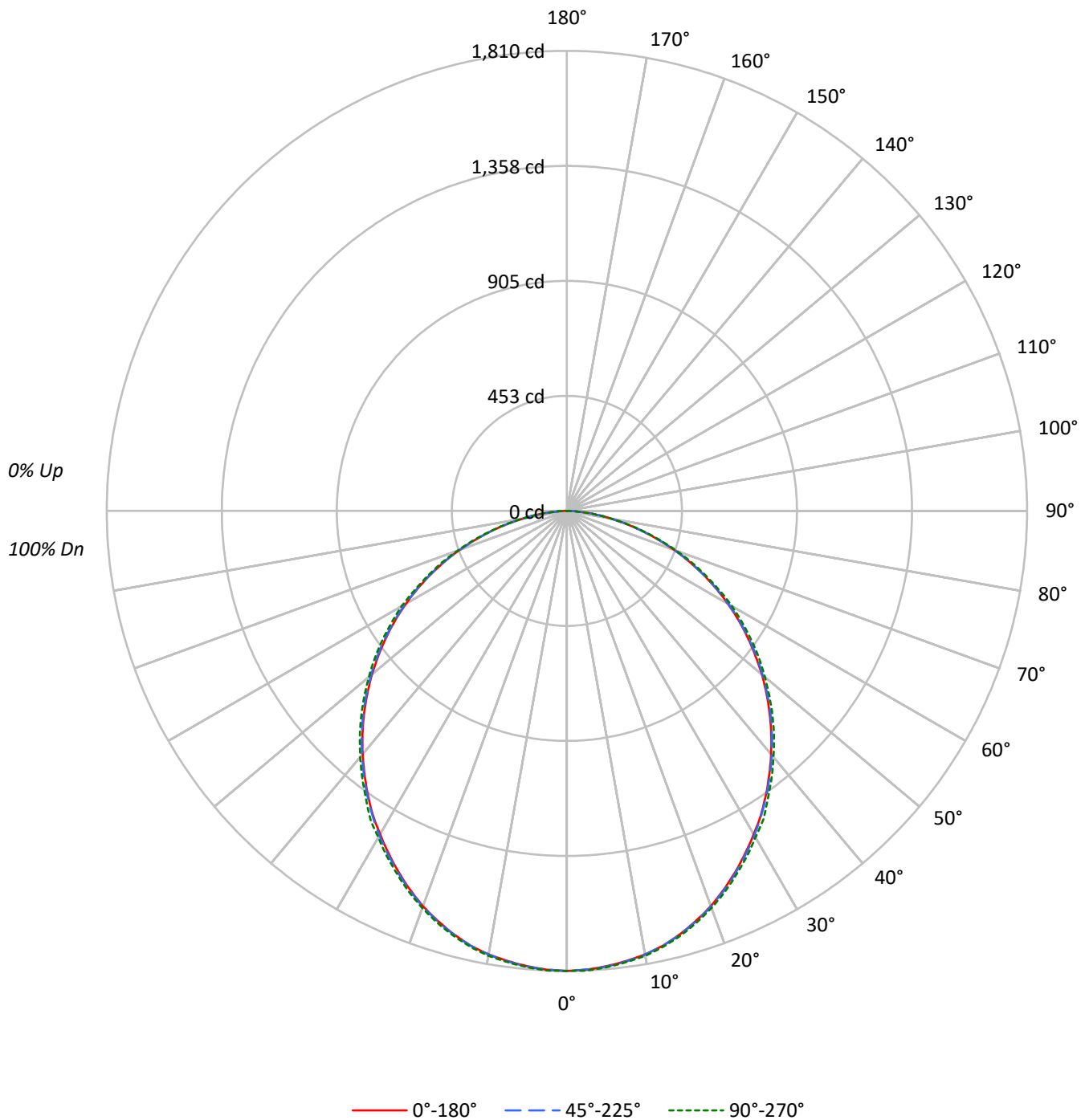
Lumens per Lamp: N/A
Luminaire Lumens: 4890.4 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	4870	4870	4870
5°	4857	4861	4868
10°	4842	4843	4857
15°	4802	4805	4819
20°	4740	4745	4762
25°	4654	4665	4686
30°	4566	4582	4610
35°	4483	4494	4530
40°	4389	4403	4442
45°	4292	4311	4355
50°	4189	4207	4256
55°	4069	4089	4156
60°	3934	3950	4039
65°	3762	3775	3846
70°	3532	3535	3611
75°	3211	3198	3273
80°	2758	2746	2793
85°	2140	2106	2118

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.5
10°-20°	486.5	9.9
20°-30°	724.2	14.8
30°-40°	856.5	17.5
40°-50°	874.3	17.9
50°-60°	780.3	16.0
60°-70°	587.7	12.0
70°-80°	327.8	6.7
80°-90°	82.1	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°	1381.7	28.3
0°-40°	2238.2	45.8
0°-60°	3892.8	79.6
0°-90°	4890.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4890.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1798	1802	1800	1800	1802	171
15°	1724	1726	1725	1726	1730	486
25°	1567	1569	1571	1575	1578	722
35°	1365	1363	1368	1373	1379	853
45°	1128	1128	1133	1138	1144	870
55°	867	866	872	878	886	775
65°	591	589	593	598	604	584
75°	309	306	308	309	315	327
85°	69	67	68	67	69	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1806.8	1809.8	1806.1	1806.8	1810.2
5°	1798.2	1801.6	1799.7	1800.1	1802.0
7.5°	1786.2	1790.7	1788.1	1788.8	1790.7
10°	1772.0	1775.3	1772.4	1774.2	1777.6
12.5°	1751.7	1753.2	1751.7	1752.5	1756.2
15°	1723.6	1725.5	1724.8	1726.3	1729.6
17.5°	1690.7	1692.9	1692.5	1695.5	1698.2
20°	1655.1	1655.4	1656.9	1659.9	1662.9
22.5°	1613.1	1614.2	1615.7	1619.8	1622.8
25°	1567.4	1569.3	1571.1	1575.3	1578.3
27.5°	1519.1	1520.9	1523.5	1528.0	1532.9
30°	1469.6	1469.6	1474.5	1479.0	1483.5
32.5°	1419.8	1417.9	1422.4	1428.0	1438.9
35°	1364.7	1363.2	1368.0	1373.3	1378.9
37.5°	1307.3	1306.2	1311.8	1317.5	1322.7
40°	1249.3	1247.8	1253.4	1259.0	1264.6
42.5°	1189.7	1188.9	1194.2	1199.8	1205.8
45°	1127.9	1127.5	1132.7	1138.4	1144.3
47.5°	1064.9	1064.2	1069.4	1075.4	1080.6
50°	1000.5	999.7	1005.0	1011.0	1016.6
52.5°	934.1	934.1	939.0	944.3	952.9
55°	867.4	866.3	871.6	877.6	885.8
57.5°	800.0	798.5	803.4	809.4	816.9
60°	731.0	729.5	734.0	740.0	750.5
62.5°	661.4	659.1	663.6	669.2	675.6
65°	590.9	588.7	592.8	598.0	604.0
67.5°	520.1	517.5	521.6	526.1	531.7
70°	448.9	446.3	449.3	453.8	459.0
72.5°	378.1	375.5	378.1	380.0	386.3
75°	308.8	306.1	307.6	309.1	314.8
77.5°	241.3	238.7	241.7	242.4	245.8
80°	178.0	175.4	177.2	177.6	180.2
82.5°	120.3	118.0	120.7	118.8	121.0
85°	69.3	67.4	68.2	67.4	68.6
87.5°	27.4	25.9	26.2	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)