

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: P835754

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-3STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835754
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-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

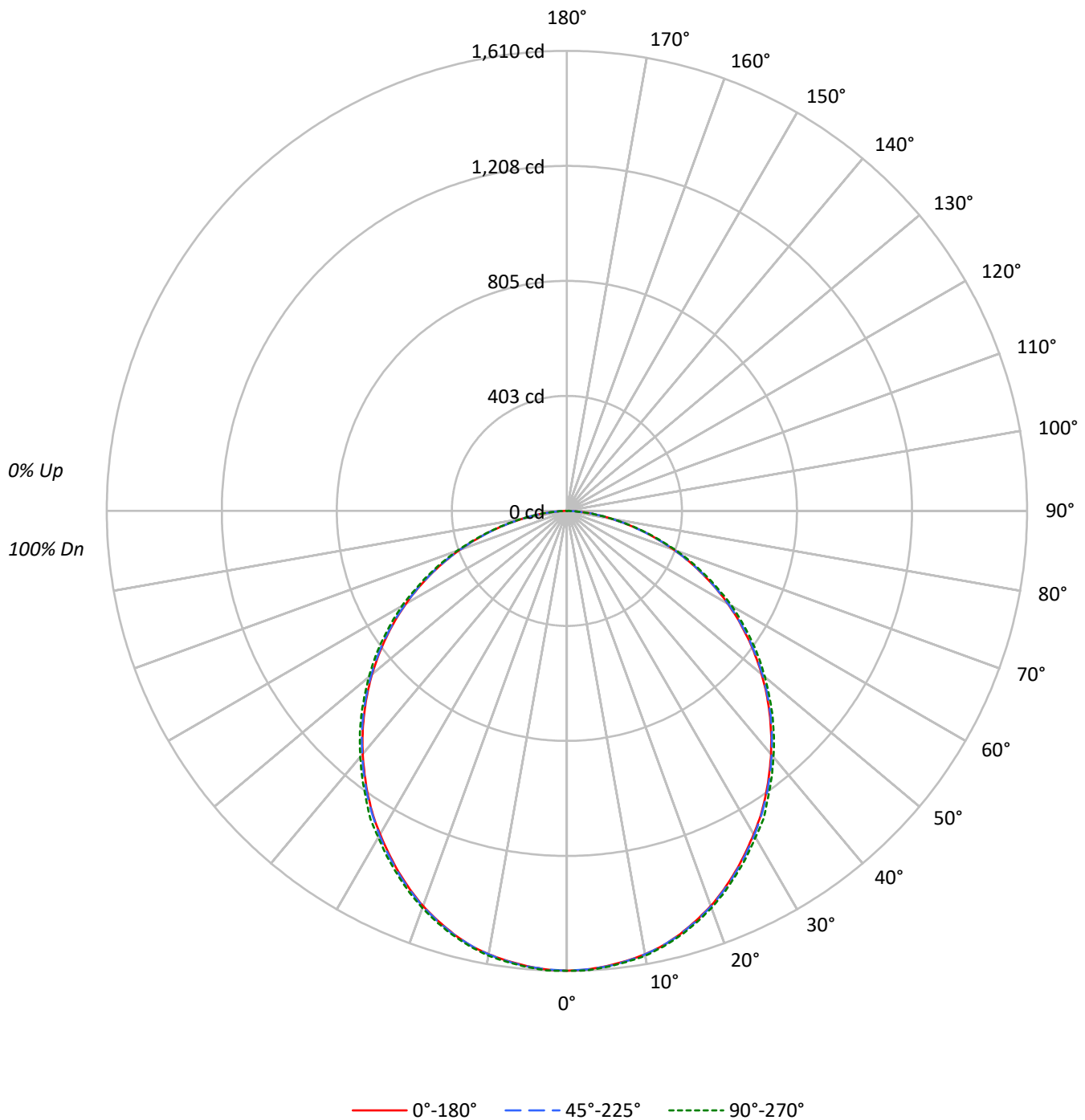
Lumens per Lamp: N/A
Luminaire Lumens: 4348.7 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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°	4331	4331	4331
5°	4319	4323	4328
10°	4306	4307	4319
15°	4270	4273	4285
20°	4215	4219	4235
25°	4138	4148	4167
30°	4061	4074	4099
35°	3986	3996	4028
40°	3902	3915	3951
45°	3817	3833	3873
50°	3725	3741	3785
55°	3619	3636	3696
60°	3499	3513	3592
65°	3346	3356	3420
70°	3141	3143	3212
75°	2855	2845	2910
80°	2453	2442	2484
85°	1902	1871	1883

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	3.5
10°-20°	432.6	9.9
20°-30°	644.0	14.8
30°-40°	761.6	17.5
40°-50°	777.5	17.9
50°-60°	693.9	16.0
60°-70°	522.6	12.0
70°-80°	291.5	6.7
80°-90°	73.0	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°	1228.7	28.3
0°-40°	1990.3	45.8
0°-60°	3461.6	79.6
0°-90°	4348.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4348.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1599	1602	1600	1601	1602	152
15°	1533	1534	1534	1535	1538	432
25°	1394	1396	1397	1401	1404	642
35°	1214	1212	1216	1221	1226	759
45°	1003	1003	1007	1012	1018	774
55°	771	770	775	780	788	690
65°	526	524	527	532	537	520
75°	275	272	274	275	280	291
85°	62	60	61	60	61	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.4	1609.4	1609.4	1609.4	1609.4
2.5°	1606.7	1609.4	1606.0	1606.7	1609.7
5°	1599.0	1602.0	1600.4	1600.7	1602.4
7.5°	1588.4	1592.4	1590.0	1590.7	1592.4
10°	1575.7	1578.7	1576.1	1577.7	1580.7
12.5°	1557.7	1559.1	1557.7	1558.4	1561.7
15°	1532.7	1534.4	1533.7	1535.1	1538.1
17.5°	1503.4	1505.4	1505.1	1507.7	1510.1
20°	1471.8	1472.1	1473.4	1476.1	1478.8
22.5°	1434.4	1435.4	1436.8	1440.4	1443.1
25°	1393.8	1395.5	1397.1	1400.8	1403.5
27.5°	1350.8	1352.5	1354.8	1358.8	1363.1
30°	1306.8	1306.8	1311.2	1315.2	1319.2
32.5°	1262.5	1260.8	1264.8	1269.8	1279.5
35°	1213.5	1212.2	1216.5	1221.2	1226.2
37.5°	1162.5	1161.5	1166.5	1171.5	1176.2
40°	1110.9	1109.6	1114.6	1119.6	1124.6
42.5°	1057.9	1057.3	1061.9	1066.9	1072.2
45°	1002.9	1002.6	1007.3	1012.3	1017.6
47.5°	947.0	946.3	951.0	956.3	961.0
50°	889.7	889.0	893.7	899.0	904.0
52.5°	830.7	830.7	835.0	839.7	847.3
55°	771.4	770.4	775.0	780.4	787.7
57.5°	711.4	710.1	714.4	719.7	726.4
60°	650.1	648.7	652.7	658.1	667.4
62.5°	588.1	586.1	590.1	595.1	600.8
65°	525.5	523.5	527.1	531.8	537.1
67.5°	462.5	460.2	463.8	467.8	472.8
70°	399.2	396.8	399.5	403.5	408.2
72.5°	336.2	333.9	336.2	337.9	343.5
75°	274.6	272.2	273.6	274.9	279.9
77.5°	214.6	212.3	214.9	215.6	218.6
80°	158.3	155.9	157.6	157.9	160.3
82.5°	107.0	105.0	107.3	105.6	107.6
85°	61.6	60.0	60.6	60.0	61.0
87.5°	24.3	23.0	23.3	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)