

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: P835680

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835680
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-LD4-2HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

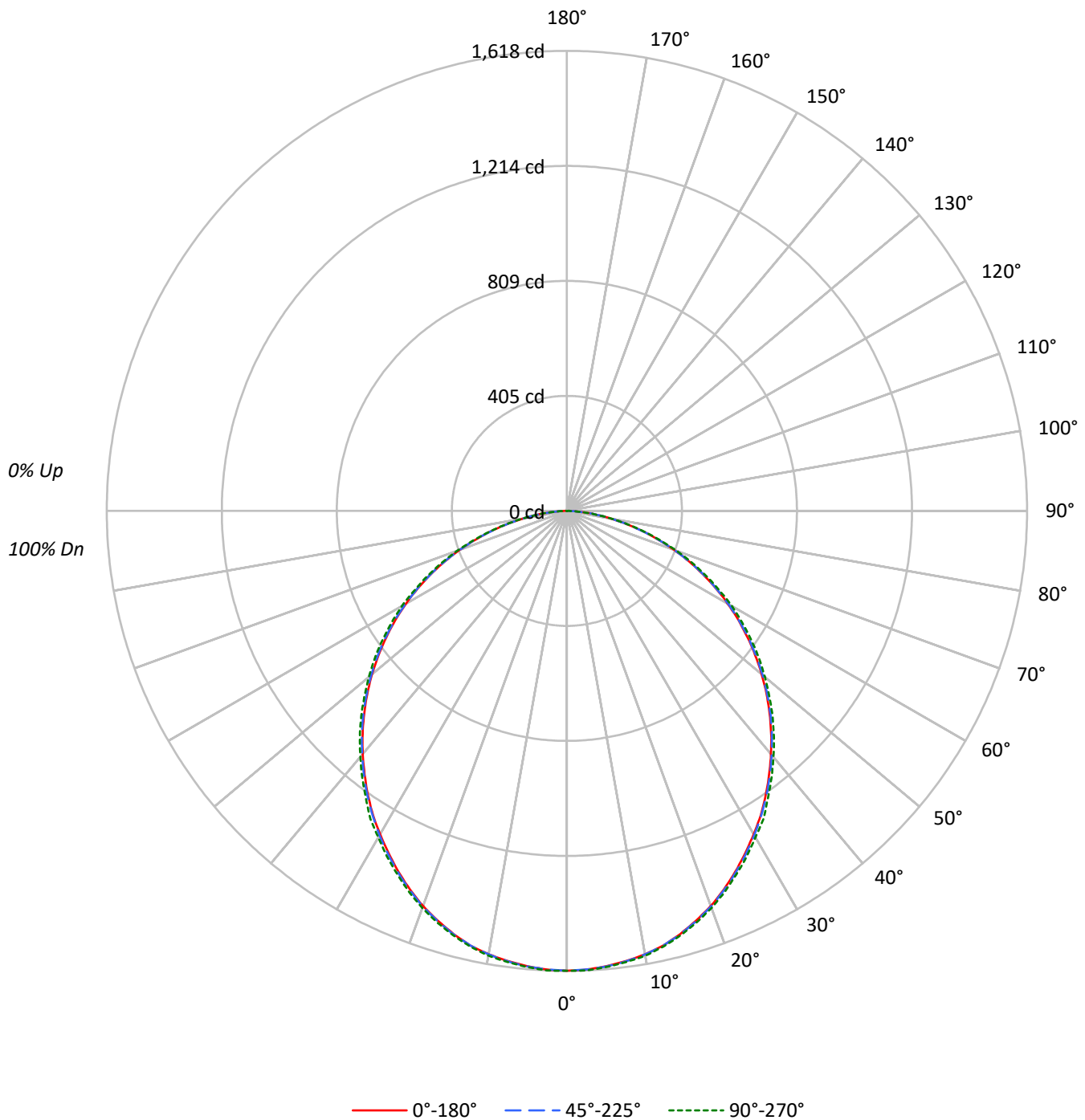
Lumens per Lamp: N/A
Luminaire Lumens: 4370.3 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	4352	4352	4352
5°	4341	4344	4350
10°	4327	4328	4341
15°	4291	4294	4306
20°	4236	4240	4256
25°	4159	4169	4188
30°	4081	4094	4119
35°	4006	4016	4048
40°	3922	3935	3970
45°	3836	3852	3892
50°	3743	3760	3803
55°	3637	3654	3714
60°	3516	3531	3610
65°	3363	3373	3437
70°	3157	3159	3227
75°	2869	2858	2925
80°	2466	2455	2497
85°	1911	1880	1893

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	3.5
10°-20°	434.7	9.9
20°-30°	647.2	14.8
30°-40°	765.4	17.5
40°-50°	781.3	17.9
50°-60°	697.3	16.0
60°-70°	525.2	12.0
70°-80°	292.9	6.7
80°-90°	73.4	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°	1234.8	28.3
0°-40°	2000.1	45.8
0°-60°	3478.8	79.6
0°-90°	4370.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1607	1610	1608	1609	1610	153
15°	1540	1542	1541	1543	1546	434
25°	1401	1402	1404	1408	1410	645
35°	1220	1218	1223	1227	1232	763
45°	1008	1008	1012	1017	1023	778
55°	775	774	779	784	792	693
65°	528	526	530	534	540	522
75°	276	274	275	276	281	293
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°	1617.4	1617.4	1617.4	1617.4	1617.4
2.5°	1614.7	1617.4	1614.0	1614.7	1617.7
5°	1607.0	1610.0	1608.3	1608.6	1610.3
7.5°	1596.3	1600.3	1597.9	1598.6	1600.3
10°	1583.5	1586.5	1583.9	1585.5	1588.6
12.5°	1565.5	1566.8	1565.5	1566.1	1569.5
15°	1540.3	1542.0	1541.3	1542.7	1545.7
17.5°	1510.9	1512.9	1512.5	1515.2	1517.6
20°	1479.1	1479.4	1480.7	1483.4	1486.1
22.5°	1441.6	1442.6	1443.9	1447.6	1450.3
25°	1400.7	1402.4	1404.1	1407.7	1410.4
27.5°	1357.5	1359.2	1361.5	1365.5	1369.9
30°	1313.3	1313.3	1317.7	1321.7	1325.7
32.5°	1268.8	1267.1	1271.1	1276.1	1285.8
35°	1219.5	1218.2	1222.6	1227.2	1232.3
37.5°	1168.3	1167.3	1172.3	1177.4	1182.0
40°	1116.4	1115.1	1120.1	1125.1	1130.1
42.5°	1063.2	1062.5	1067.2	1072.2	1077.6
45°	1007.9	1007.6	1012.3	1017.3	1022.6
47.5°	951.7	951.0	955.7	961.0	965.7
50°	894.1	893.4	898.1	903.4	908.5
52.5°	834.8	834.8	839.1	843.8	851.5
55°	775.2	774.2	778.9	784.2	791.6
57.5°	714.9	713.6	717.9	723.3	730.0
60°	653.3	652.0	656.0	661.3	670.7
62.5°	591.0	589.0	593.0	598.1	603.7
65°	528.1	526.1	529.7	534.4	539.8
67.5°	464.8	462.4	466.1	470.1	475.2
70°	401.2	398.8	401.5	405.5	410.2
72.5°	337.9	335.5	337.9	339.5	345.2
75°	275.9	273.6	274.9	276.3	281.3
77.5°	215.6	213.3	216.0	216.7	219.7
80°	159.1	156.7	158.4	158.7	161.1
82.5°	107.5	105.5	107.8	106.1	108.2
85°	61.9	60.3	60.9	60.3	61.3
87.5°	24.4	23.1	23.4	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)