

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: P835785

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-1HI-50-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835785
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-LD4-1HI-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

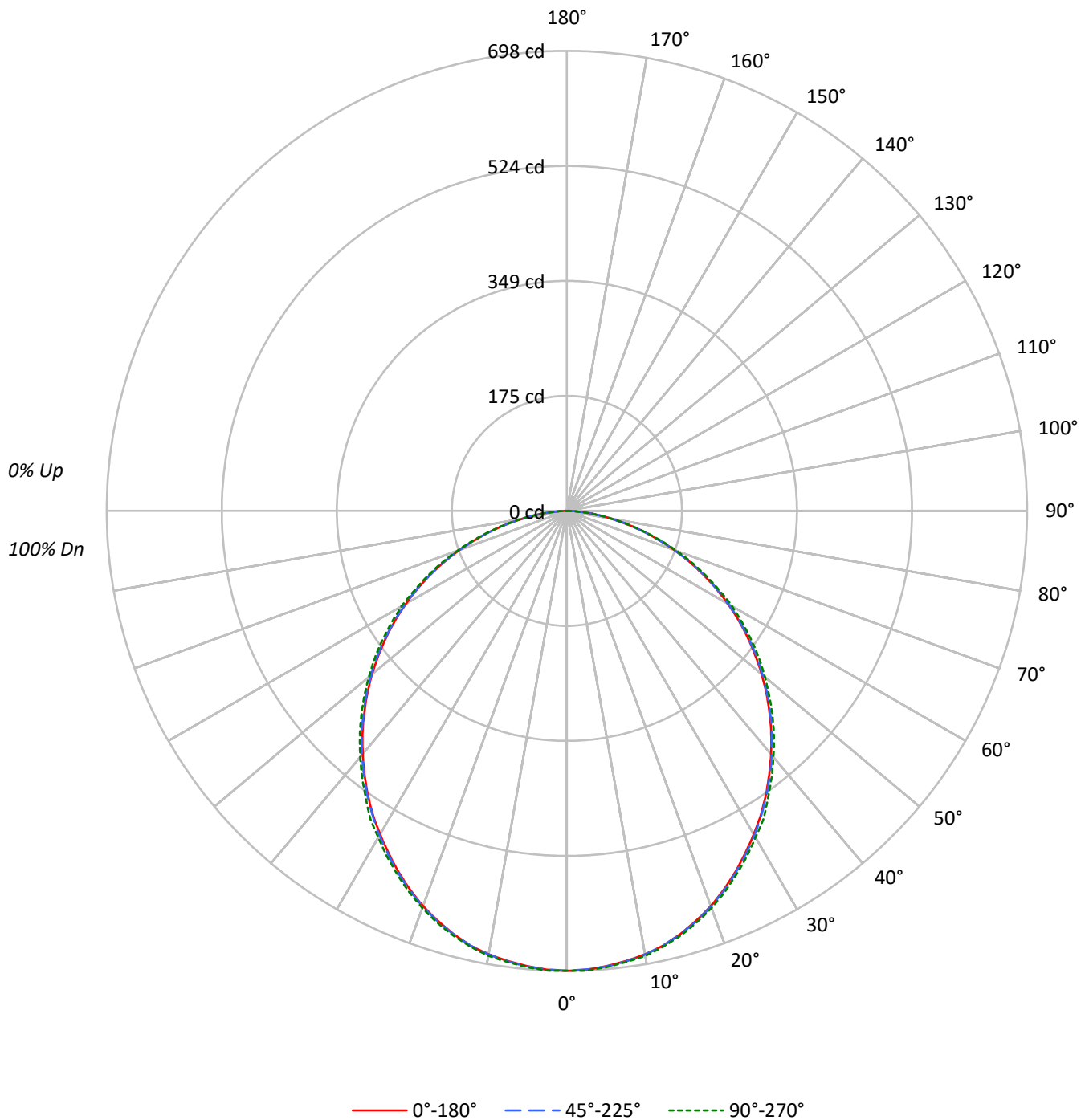
Lumens per Lamp: N/A
Luminaire Lumens: 1885.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	1878	1878	1878
5°	1873	1874	1877
10°	1867	1867	1873
15°	1852	1853	1858
20°	1827	1830	1836
25°	1794	1799	1807
30°	1761	1766	1777
35°	1729	1733	1747
40°	1692	1698	1713
45°	1655	1662	1679
50°	1615	1622	1641
55°	1569	1576	1602
60°	1517	1523	1558
65°	1450	1456	1483
70°	1362	1363	1393
75°	1237	1233	1262
80°	1063	1058	1077
85°	824	812	815

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	3.5
10°-20°	187.6	9.9
20°-30°	279.2	14.8
30°-40°	330.2	17.5
40°-50°	337.1	17.9
50°-60°	300.9	16.0
60°-70°	226.6	12.0
70°-80°	126.4	6.7
80°-90°	31.7	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°	532.7	28.3
0°-40°	863.0	45.8
0°-60°	1500.9	79.6
0°-90°	1885.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	693	695	694	694	695	66
15°	665	665	665	666	667	187
25°	604	605	606	607	608	278
35°	526	526	528	530	532	329
45°	435	435	437	439	441	335
55°	334	334	336	338	342	299
65°	228	227	229	231	233	225
75°	119	118	119	119	121	126
85°	27	26	26	26	26	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.8	697.8	697.8	697.8	697.8
2.5°	696.7	697.8	696.4	696.7	698.0
5°	693.3	694.6	693.9	694.0	694.8
7.5°	688.7	690.4	689.4	689.7	690.4
10°	683.2	684.5	683.4	684.1	685.4
12.5°	675.4	676.0	675.4	675.7	677.1
15°	664.6	665.3	665.0	665.6	666.9
17.5°	651.9	652.7	652.6	653.7	654.8
20°	638.1	638.3	638.9	640.0	641.2
22.5°	622.0	622.4	623.0	624.6	625.7
25°	604.3	605.1	605.8	607.4	608.5
27.5°	585.7	586.4	587.4	589.2	591.0
30°	566.6	566.6	568.5	570.2	572.0
32.5°	547.4	546.7	548.4	550.6	554.8
35°	526.2	525.6	527.5	529.5	531.7
37.5°	504.1	503.6	505.8	508.0	510.0
40°	481.7	481.1	483.3	485.4	487.6
42.5°	458.7	458.4	460.4	462.6	464.9
45°	434.9	434.7	436.7	438.9	441.2
47.5°	410.6	410.3	412.3	414.6	416.7
50°	385.7	385.5	387.5	389.8	392.0
52.5°	360.2	360.2	362.1	364.1	367.4
55°	334.5	334.0	336.0	338.4	341.5
57.5°	308.5	307.9	309.8	312.1	315.0
60°	281.9	281.3	283.0	285.3	289.4
62.5°	255.0	254.1	255.9	258.0	260.5
65°	227.8	227.0	228.6	230.6	232.9
67.5°	200.5	199.5	201.1	202.8	205.0
70°	173.1	172.1	173.2	175.0	177.0
72.5°	145.8	144.8	145.8	146.5	149.0
75°	119.0	118.0	118.6	119.2	121.4
77.5°	93.0	92.0	93.2	93.5	94.8
80°	68.6	67.6	68.3	68.5	69.5
82.5°	46.4	45.5	46.5	45.8	46.7
85°	26.7	26.0	26.3	26.0	26.4
87.5°	10.5	10.0	10.1	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)