

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: P834485

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-3STD-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-3STD-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

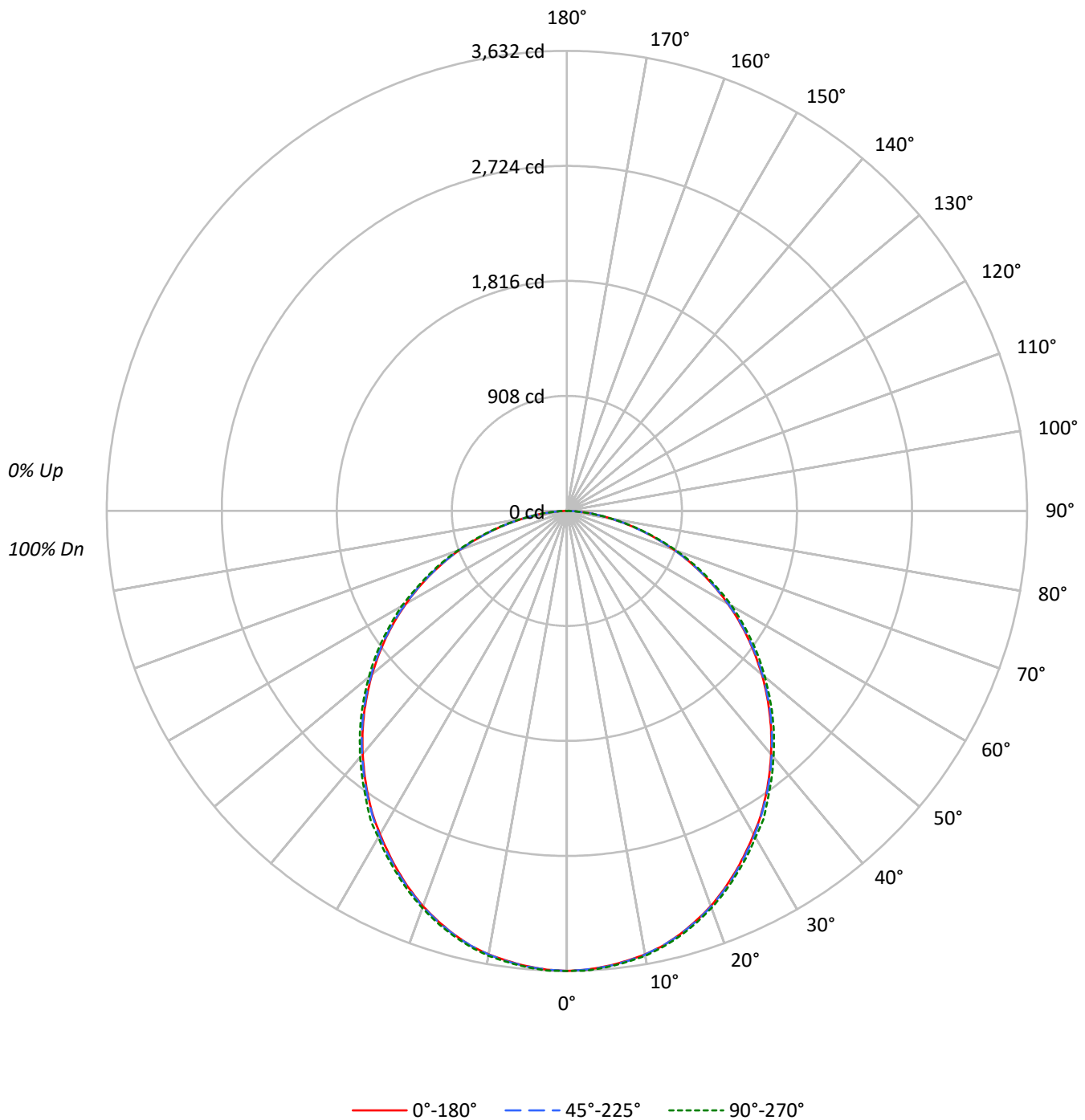
Lumens per Lamp: N/A
Luminaire Lumens: 9813.2 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	9773	9773	9773
5°	9747	9755	9767
10°	9716	9718	9747
15°	9636	9642	9669
20°	9511	9521	9556
25°	9339	9361	9403
30°	9163	9193	9250
35°	8996	9018	9090
40°	8806	8835	8914
45°	8613	8650	8739
50°	8405	8442	8540
55°	8167	8205	8339
60°	7895	7928	8106
65°	7550	7574	7718
70°	7087	7093	7247
75°	6442	6418	6567
80°	5535	5512	5605
85°	4295	4224	4248

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.2	3.5
10°-20°	976.2	9.9
20°-30°	1453.3	14.8
30°-40°	1718.6	17.5
40°-50°	1754.5	17.9
50°-60°	1565.8	16.0
60°-70°	1179.3	12.0
70°-80°	657.7	6.7
80°-90°	164.8	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°	2772.6	28.3
0°-40°	4491.2	45.8
0°-60°	7811.5	79.6
0°-90°	9813.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9813.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3632	3632	3632	3632	3632	
5°	3608	3615	3611	3612	3616	343
15°	3459	3462	3461	3464	3471	975
25°	3145	3149	3153	3161	3167	1449
35°	2738	2735	2745	2756	2767	1712
45°	2263	2262	2273	2284	2296	1746
55°	1741	1738	1749	1761	1778	1556
65°	1186	1181	1190	1200	1212	1173
75°	620	614	617	620	632	657
85°	139	135	137	135	138	167
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3631.7	3631.7	3631.7	3631.7	3631.7
2.5°	3625.7	3631.7	3624.2	3625.7	3632.4
5°	3608.4	3615.1	3611.4	3612.1	3615.9
7.5°	3584.3	3593.3	3588.1	3589.6	3593.3
10°	3555.7	3562.5	3556.5	3560.3	3567.0
12.5°	3515.1	3518.2	3515.1	3516.7	3524.2
15°	3458.8	3462.5	3461.0	3464.0	3470.8
17.5°	3392.6	3397.1	3396.3	3402.4	3407.6
20°	3321.2	3321.9	3324.9	3330.9	3336.9
22.5°	3236.9	3239.2	3242.2	3250.5	3256.5
25°	3145.2	3149.0	3152.7	3161.0	3167.0
27.5°	3048.2	3052.0	3057.2	3066.3	3076.0
30°	2949.0	2949.0	2958.7	2967.8	2976.8
32.5°	2849.0	2845.2	2854.2	2865.5	2887.3
35°	2738.4	2735.4	2745.2	2755.7	2767.0
37.5°	2623.4	2621.1	2632.4	2643.7	2654.2
40°	2506.8	2503.8	2515.1	2526.4	2537.7
42.5°	2387.3	2385.8	2396.3	2407.6	2419.6
45°	2263.2	2262.5	2273.0	2284.3	2296.3
47.5°	2136.9	2135.4	2145.9	2158.0	2168.5
50°	2007.6	2006.1	2016.6	2028.6	2039.9
52.5°	1874.5	1874.5	1884.3	1894.8	1912.1
55°	1740.7	1738.4	1748.9	1761.0	1777.5
57.5°	1605.3	1602.3	1612.1	1624.1	1639.1
60°	1467.0	1464.0	1473.0	1485.0	1506.1
62.5°	1327.1	1322.6	1331.6	1342.9	1355.7
65°	1185.8	1181.2	1189.5	1200.0	1212.1
67.5°	1043.6	1038.4	1046.6	1055.7	1067.0
70°	900.8	895.5	901.5	910.6	921.1
72.5°	758.7	753.4	758.7	762.4	775.2
75°	619.6	614.3	617.3	620.3	631.6
77.5°	484.2	479.0	485.0	486.5	493.2
80°	357.2	351.9	355.7	356.4	361.7
82.5°	241.4	236.8	242.1	238.4	242.9
85°	139.1	135.3	136.8	135.3	137.6
87.5°	54.9	51.9	52.6	49.6	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)