

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: P487179

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-30-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P487179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-A125-LD4-2HI-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

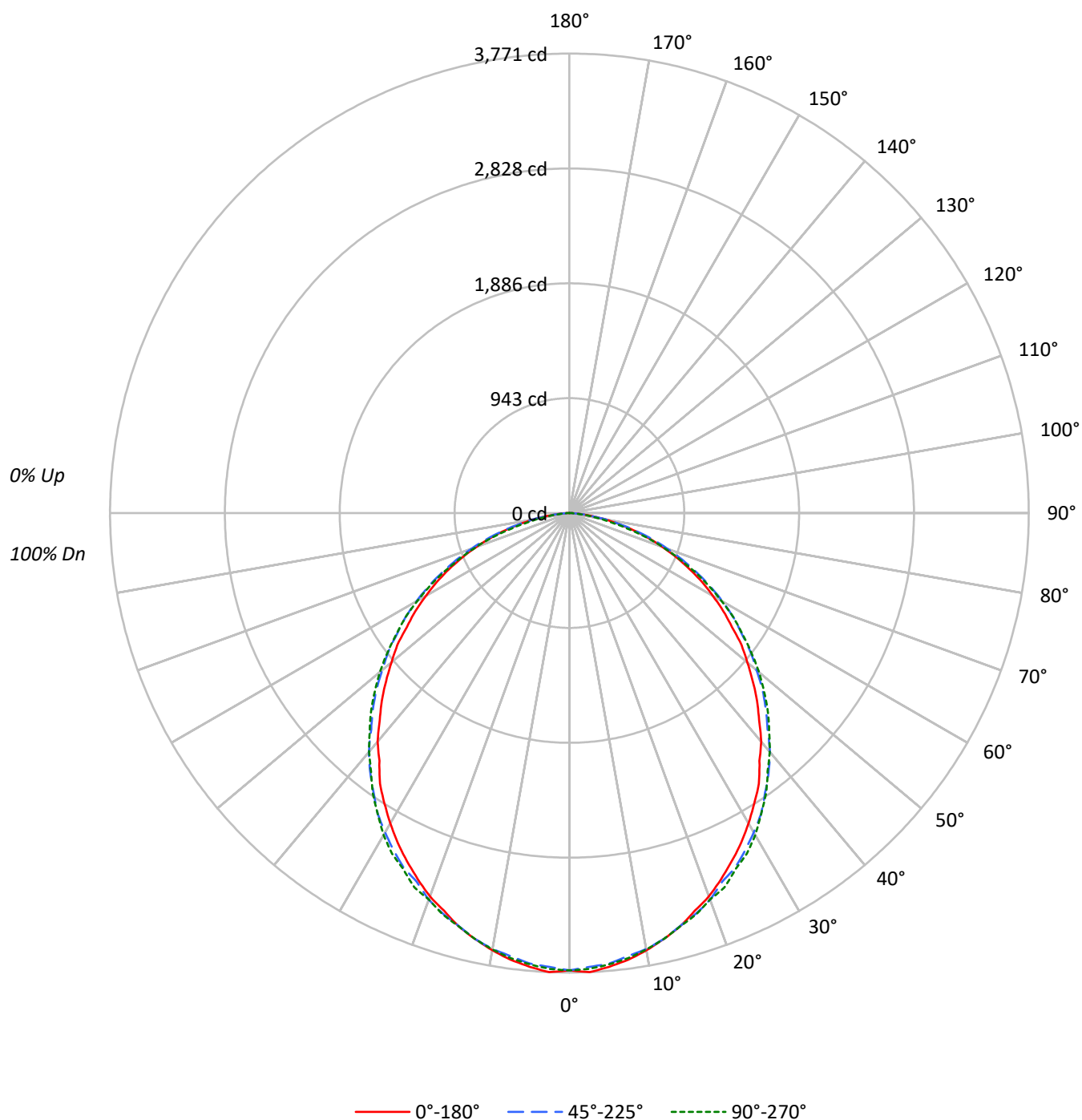
Lumens per Lamp: N/A
Luminaire Lumens: 9639.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
Input Voltage (V): NR
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5049	5049	5049
5°	5049	5013	5022
10°	4979	4962	4967
15°	4893	4887	4890
20°	4795	4836	4833
25°	4682	4773	4789
30°	4568	4702	4740
35°	4455	4600	4621
40°	4303	4498	4494
45°	4146	4341	4384
50°	3990	4196	4252
55°	3822	4048	4072
60°	3661	3904	3876
65°	3469	3665	3593
70°	3196	3366	3212
75°	2826	2944	2571
80°	2273	2305	1797
85°	1488	1425	1045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.7	3.7
10°-20°	991.9	10.3
20°-30°	1476.7	15.3
30°-40°	1738.1	18.0
40°-50°	1742.7	18.1
50°-60°	1528.2	15.9
60°-70°	1117.5	11.6
70°-80°	575.9	6.0
80°-90°	115.5	1.2
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°	2821.3	29.3
0°-40°	4559.4	47.3
0°-60°	7830.4	81.2
0°-90°	9639.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9639.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3753	3753	3753	3753	3753	
5°	3738	3714	3712	3736	3718	354
15°	3513	3519	3509	3531	3511	989
25°	3154	3168	3215	3260	3226	1453
35°	2712	2725	2801	2832	2813	1689
45°	2179	2189	2282	2310	2304	1679
55°	1629	1666	1726	1750	1736	1462
65°	1090	1114	1151	1147	1128	1078
75°	544	548	566	527	494	576
85°	96	94	92	74	68	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3752.8	3752.8	3752.8	3752.8	3752.8
2.5°	3771.3	3752.8	3728.2	3748.7	3744.6
5°	3738.4	3713.8	3711.8	3736.4	3717.9
7.5°	3697.4	3693.3	3668.7	3695.3	3685.1
10°	3644.0	3639.9	3631.7	3650.2	3635.8
12.5°	3580.4	3576.3	3580.4	3590.7	3580.4
15°	3512.7	3518.9	3508.6	3531.2	3510.7
17.5°	3422.5	3428.6	3449.1	3457.3	3455.3
20°	3348.6	3352.7	3377.3	3410.1	3375.3
22.5°	3252.1	3262.4	3274.7	3334.2	3326.0
25°	3153.7	3168.0	3215.2	3260.4	3225.5
27.5°	3051.1	3065.4	3122.9	3155.7	3151.6
30°	2940.3	2954.6	3026.4	3071.6	3051.1
32.5°	2825.4	2850.0	2928.0	2966.9	2928.0
35°	2712.5	2724.8	2800.7	2831.5	2813.1
37.5°	2562.7	2609.9	2685.8	2706.4	2673.5
40°	2449.9	2451.9	2560.7	2560.7	2558.6
42.5°	2304.2	2337.0	2408.8	2447.8	2427.3
45°	2179.0	2189.3	2281.6	2310.4	2304.2
47.5°	2041.6	2082.6	2150.3	2183.1	2166.7
50°	1906.1	1934.9	2004.6	2047.7	2031.3
52.5°	1781.0	1803.6	1875.4	1900.0	1883.6
55°	1629.2	1666.1	1725.6	1750.2	1735.8
57.5°	1497.8	1524.5	1598.4	1606.6	1598.4
60°	1360.4	1391.1	1450.6	1456.8	1440.4
62.5°	1229.0	1249.6	1302.9	1305.0	1286.5
65°	1089.5	1114.1	1151.1	1147.0	1128.5
67.5°	952.0	968.5	1003.3	989.0	968.5
70°	812.5	826.9	855.6	835.1	816.6
72.5°	677.1	687.4	712.0	681.2	658.6
75°	543.7	547.8	566.3	527.3	494.5
77.5°	412.4	416.5	426.8	387.8	350.9
80°	293.4	293.4	297.5	256.5	231.9
82.5°	184.7	184.7	182.6	151.8	137.5
85°	96.4	94.4	92.3	73.9	67.7
87.5°	34.9	34.9	28.7	26.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)