

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: P487324

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-35-120-EDD-90**

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: P487324
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-LD4-6HI-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

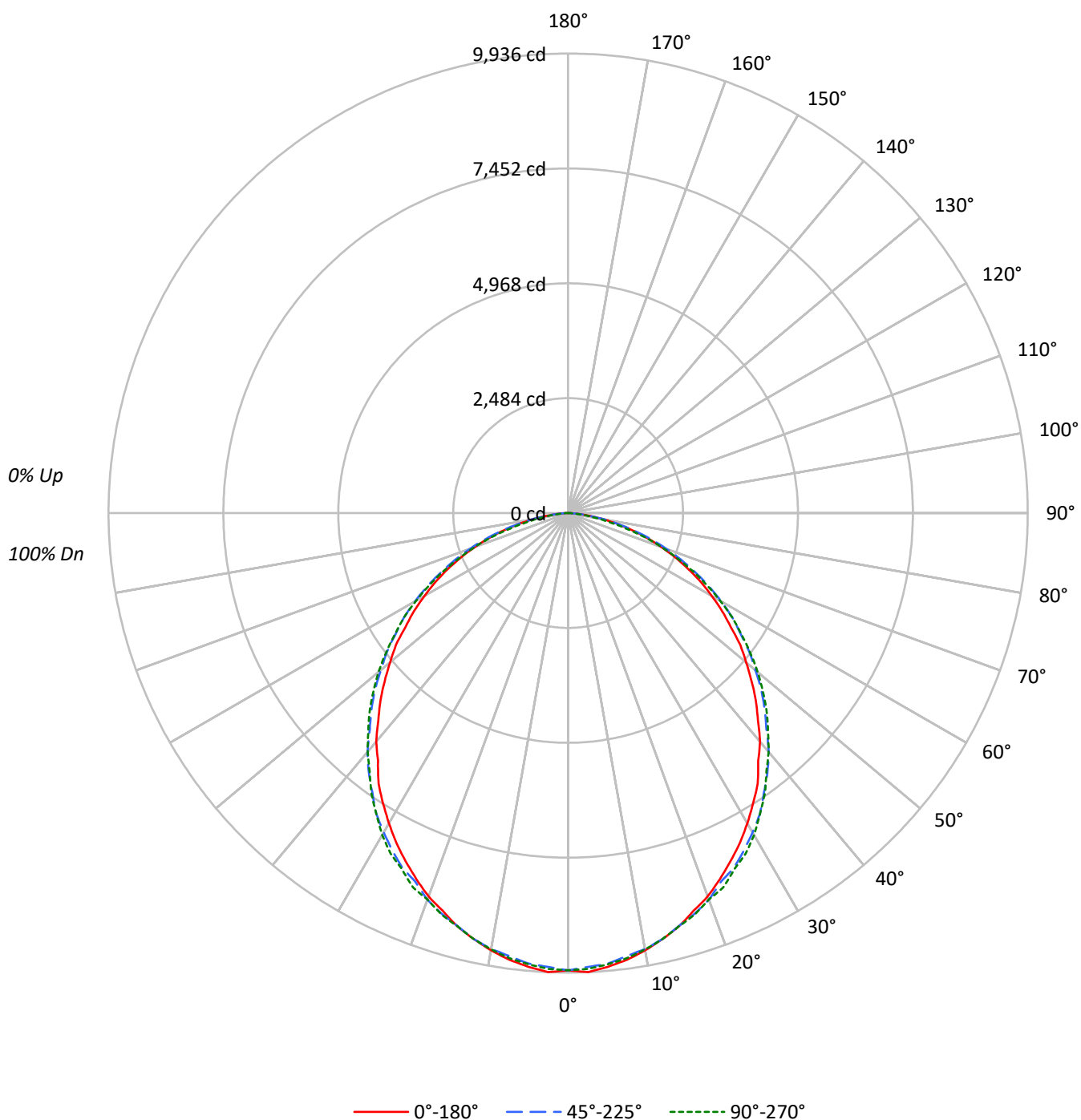
Lumens per Lamp: N/A
Luminaire Lumens: 25396.7 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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

TEST NUMBER: P487324

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487324

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-35-120-EDD-90

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°	13304	13304	13304
5°	13303	13208	13230
10°	13117	13073	13088
15°	12892	12877	12884
20°	12632	12741	12733
25°	12335	12576	12616
30°	12036	12388	12489
35°	11739	12120	12174
40°	11337	11850	11840
45°	10924	11439	11552
50°	10512	11055	11203
55°	10069	10665	10728
60°	9645	10285	10212
65°	9139	9655	9466
70°	8422	8868	8464
75°	7447	7756	6773
80°	5990	6074	4733
85°	3923	3756	2754



TEST NUMBER: P487324

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.4	3.7
10°-20°	2613.3	10.3
20°-30°	3890.6	15.3
30°-40°	4579.5	18.0
40°-50°	4591.6	18.1
50°-60°	4026.4	15.9
60°-70°	2944.2	11.6
70°-80°	1517.3	6.0
80°-90°	304.4	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°	7433.3	29.3
0°-40°	12012.8	47.3
0°-60°	20630.7	81.2
0°-90°	25396.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25396.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9888	9888	9888	9888	9888	
5°	9850	9785	9779	9844	9796	932
15°	9255	9271	9244	9304	9250	2605
25°	8309	8347	8471	8590	8498	3827
35°	7147	7179	7379	7460	7412	4451
45°	5741	5768	6011	6087	6071	4424
55°	4292	4390	4546	4611	4573	3853
65°	2871	2935	3033	3022	2973	2840
75°	1433	1443	1492	1389	1303	1518
85°	254	249	243	195	178	331
90°	0	0	0	0	0	



TEST NUMBER: P487324

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9887.5	9887.5	9887.5	9887.5	9887.5
2.5°	9936.2	9887.5	9822.6	9876.7	9865.9
5°	9849.7	9784.8	9779.4	9844.3	9795.6
7.5°	9741.5	9730.7	9665.9	9736.1	9709.1
10°	9601.0	9590.2	9568.6	9617.2	9579.4
12.5°	9433.4	9422.6	9433.4	9460.4	9433.4
15°	9255.0	9271.2	9244.2	9303.7	9249.6
17.5°	9017.1	9033.4	9087.4	9109.0	9103.6
20°	8822.5	8833.3	8898.2	8984.7	8892.8
22.5°	8568.4	8595.5	8627.9	8784.7	8763.1
25°	8309.0	8346.8	8471.1	8590.1	8498.2
27.5°	8038.7	8076.5	8227.9	8314.4	8303.6
30°	7746.7	7784.6	7973.8	8092.7	8038.7
32.5°	7444.0	7508.9	7714.3	7817.0	7714.3
35°	7146.7	7179.1	7379.1	7460.2	7411.6
37.5°	6752.0	6876.4	7076.4	7130.5	7044.0
40°	6454.7	6460.1	6746.6	6746.6	6741.2
42.5°	6070.9	6157.4	6346.6	6449.3	6395.3
45°	5741.1	5768.2	6011.4	6087.1	6070.9
47.5°	5378.9	5487.1	5665.4	5751.9	5708.7
50°	5022.1	5097.8	5281.6	5395.2	5351.9
52.5°	4692.4	4751.8	4941.0	5005.9	4962.7
55°	4292.3	4389.6	4546.4	4611.3	4573.4
57.5°	3946.4	4016.6	4211.2	4232.9	4211.2
60°	3584.2	3665.2	3822.0	3838.2	3795.0
62.5°	3238.2	3292.2	3432.8	3438.2	3389.5
65°	2870.6	2935.4	3032.7	3021.9	2973.3
67.5°	2508.4	2551.6	2643.5	2605.7	2551.6
70°	2140.8	2178.6	2254.3	2200.2	2151.6
72.5°	1784.0	1811.0	1875.9	1794.8	1735.3
75°	1432.6	1443.4	1492.0	1389.3	1302.8
77.5°	1086.6	1097.4	1124.4	1021.7	924.4
80°	773.1	773.1	783.9	675.7	610.9
82.5°	486.5	486.5	481.1	400.0	362.2
85°	254.1	248.7	243.3	194.6	178.4
87.5°	91.9	91.9	75.7	70.3	75.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)