

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: P487303

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-40-120-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: P487303
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-LD4-5LO-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

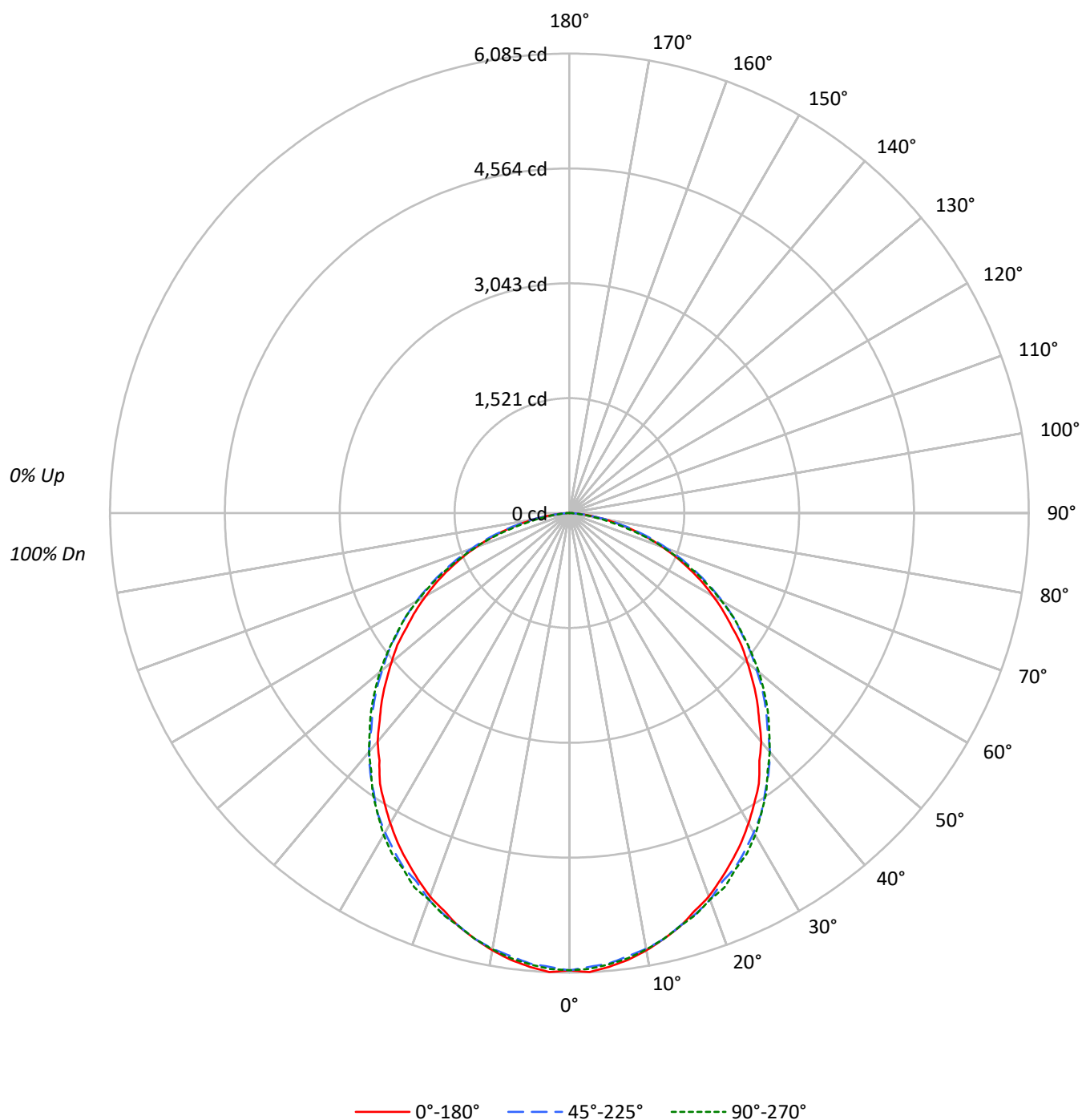
Lumens per Lamp: N/A
Luminaire Lumens: 15552.3 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	8147	8147	8147
5°	8147	8088	8102
10°	8033	8006	8015
15°	7895	7885	7890
20°	7736	7802	7797
25°	7554	7701	7726
30°	7370	7586	7648
35°	7188	7422	7455
40°	6943	7257	7251
45°	6690	7005	7074
50°	6437	6770	6860
55°	6166	6531	6570
60°	5906	6298	6254
65°	5597	5913	5797
70°	5157	5431	5183
75°	4561	4750	4147
80°	3668	3719	2899
85°	2402	2300	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.1	3.7
10°-20°	1600.3	10.3
20°-30°	2382.5	15.3
30°-40°	2804.4	18.0
40°-50°	2811.8	18.1
50°-60°	2465.7	15.9
60°-70°	1803.0	11.6
70°-80°	929.2	6.0
80°-90°	186.4	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°	4551.9	29.3
0°-40°	7356.3	47.3
0°-60°	12633.7	81.2
0°-90°	15552.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15552.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6055	6055	6055	6055	6055	
5°	6032	5992	5989	6028	5999	571
15°	5668	5678	5661	5697	5664	1595
25°	5088	5111	5188	5260	5204	2344
35°	4376	4396	4519	4568	4539	2726
45°	3516	3532	3681	3728	3718	2709
55°	2628	2688	2784	2824	2801	2359
65°	1758	1798	1857	1851	1821	1739
75°	877	884	914	851	798	930
85°	156	152	149	119	109	203
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6054.9	6054.9	6054.9	6054.9	6054.9
2.5°	6084.7	6054.9	6015.1	6048.2	6041.6
5°	6031.7	5992.0	5988.6	6028.4	5998.6
7.5°	5965.5	5958.9	5919.1	5962.2	5945.6
10°	5879.4	5872.8	5859.5	5889.3	5866.2
12.5°	5776.8	5770.2	5776.8	5793.3	5776.8
15°	5667.5	5677.5	5660.9	5697.3	5664.2
17.5°	5521.9	5531.8	5564.9	5578.2	5574.8
20°	5402.7	5409.3	5449.0	5502.0	5445.7
22.5°	5247.1	5263.7	5283.5	5379.5	5366.3
25°	5088.2	5111.4	5187.5	5260.3	5204.1
27.5°	4922.7	4945.8	5038.5	5091.5	5084.9
30°	4743.9	4767.1	4883.0	4955.8	4922.7
32.5°	4558.5	4598.2	4724.0	4786.9	4724.0
35°	4376.4	4396.3	4518.8	4568.5	4538.7
37.5°	4134.8	4210.9	4333.4	4366.5	4313.5
40°	3952.7	3956.0	4131.5	4131.5	4128.2
42.5°	3717.7	3770.6	3886.5	3949.4	3916.3
45°	3515.7	3532.3	3681.2	3727.6	3717.7
47.5°	3293.9	3360.1	3469.4	3522.3	3495.9
50°	3075.4	3121.8	3234.3	3303.9	3277.4
52.5°	2873.5	2909.9	3025.8	3065.5	3039.0
55°	2628.5	2688.1	2784.1	2823.8	2800.7
57.5°	2416.6	2459.7	2578.9	2592.1	2578.9
60°	2194.8	2244.5	2340.5	2350.4	2324.0
62.5°	1983.0	2016.1	2102.2	2105.5	2075.7
65°	1757.9	1797.6	1857.2	1850.6	1820.8
67.5°	1536.1	1562.5	1618.8	1595.6	1562.5
70°	1310.9	1334.1	1380.5	1347.4	1317.6
72.5°	1092.5	1109.0	1148.7	1099.1	1062.7
75°	877.3	883.9	913.7	850.8	797.8
77.5°	665.4	672.0	688.6	625.7	566.1
80°	473.4	473.4	480.0	413.8	374.1
82.5°	297.9	297.9	294.6	245.0	221.8
85°	155.6	152.3	149.0	119.2	109.2
87.5°	56.3	56.3	46.3	43.0	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)