

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: P487282

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-20-120-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: P487282
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-LD4-5HI-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

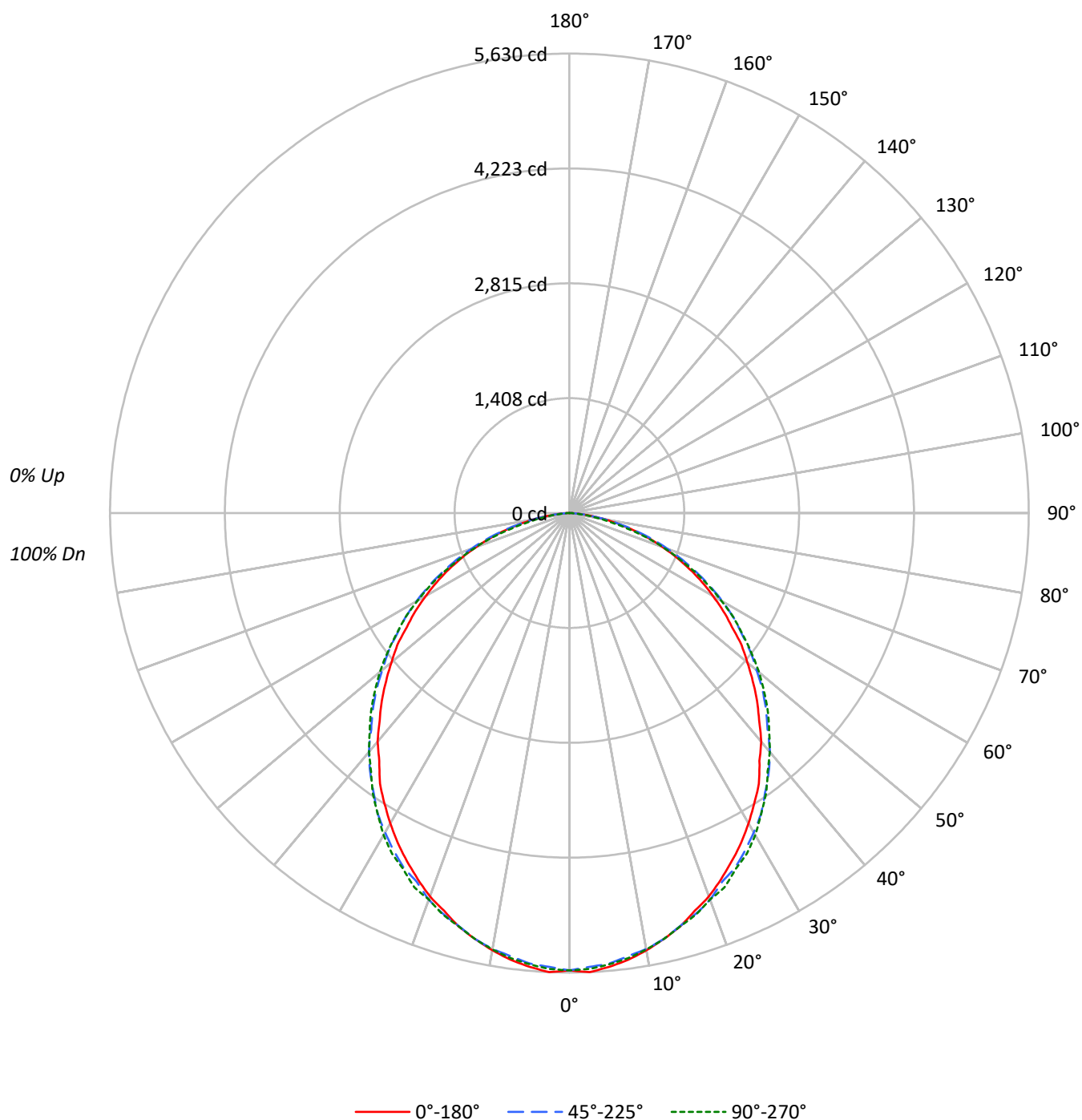
Lumens per Lamp: N/A
Luminaire Lumens: 14391.5 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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: P487282

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487282

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-20-120-EDD-90

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	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°	7539	7539	7539
5°	7539	7485	7497
10°	7433	7408	7416
15°	7305	7297	7301
20°	7158	7220	7215
25°	6990	7126	7149
30°	6820	7020	7077
35°	6652	6868	6899
40°	6424	6715	6709
45°	6190	6482	6546
50°	5957	6265	6348
55°	5706	6043	6079
60°	5465	5828	5787
65°	5179	5472	5364
70°	4772	5025	4796
75°	4220	4395	3838
80°	3395	3442	2682
85°	2223	2129	1561



TEST NUMBER: P487282

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.6	3.7
10°-20°	1480.8	10.3
20°-30°	2204.7	15.3
30°-40°	2595.1	18.0
40°-50°	2601.9	18.1
50°-60°	2281.6	15.9
60°-70°	1668.4	11.6
70°-80°	859.8	6.0
80°-90°	172.5	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°	4212.2	29.3
0°-40°	6807.3	47.3
0°-60°	11690.8	81.2
0°-90°	14391.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14391.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5603	5603	5603	5603	5603	
5°	5582	5545	5542	5578	5551	528
15°	5244	5254	5238	5272	5242	1476
25°	4708	4730	4800	4868	4816	2169
35°	4050	4068	4182	4228	4200	2522
45°	3253	3269	3406	3449	3440	2507
55°	2432	2488	2576	2613	2592	2183
65°	1627	1663	1719	1712	1685	1609
75°	812	818	846	787	738	860
85°	144	141	138	110	101	188
90°	0	0	0	0	0	



TEST NUMBER: P487282

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5HI-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5602.9	5602.9	5602.9	5602.9	5602.9
2.5°	5630.5	5602.9	5566.2	5596.8	5590.7
5°	5581.5	5544.7	5541.7	5578.4	5550.9
7.5°	5520.2	5514.1	5477.3	5517.2	5501.8
10°	5440.6	5434.4	5422.2	5449.8	5428.3
12.5°	5345.6	5339.5	5345.6	5360.9	5345.6
15°	5244.5	5253.7	5238.4	5272.1	5241.5
17.5°	5109.7	5118.9	5149.6	5161.8	5158.7
20°	4999.4	5005.6	5042.3	5091.3	5039.3
22.5°	4855.5	4870.8	4889.2	4978.0	4965.7
25°	4708.4	4729.9	4800.3	4867.7	4815.6
27.5°	4555.3	4576.7	4662.5	4711.5	4705.4
30°	4389.8	4411.3	4518.5	4585.9	4555.3
32.5°	4218.3	4255.0	4371.5	4429.7	4371.5
35°	4049.8	4068.2	4181.5	4227.5	4199.9
37.5°	3826.2	3896.6	4010.0	4040.6	3991.6
40°	3657.7	3660.7	3823.1	3823.1	3820.0
42.5°	3440.2	3489.2	3596.4	3654.6	3624.0
45°	3253.3	3268.6	3406.5	3449.4	3440.2
47.5°	3048.1	3109.3	3210.4	3259.4	3234.9
50°	2845.9	2888.8	2992.9	3057.3	3032.8
52.5°	2659.0	2692.7	2799.9	2836.7	2812.2
55°	2432.3	2487.5	2576.3	2613.1	2591.6
57.5°	2236.3	2276.1	2386.4	2398.6	2386.4
60°	2031.0	2077.0	2165.8	2175.0	2150.5
62.5°	1835.0	1865.6	1945.3	1948.3	1920.7
65°	1626.7	1663.4	1718.6	1712.4	1684.9
67.5°	1421.4	1445.9	1498.0	1476.6	1445.9
70°	1213.1	1234.5	1277.4	1246.8	1219.2
72.5°	1010.9	1026.2	1063.0	1017.0	983.3
75°	811.8	817.9	845.5	787.3	738.3
77.5°	615.7	621.9	637.2	579.0	523.8
80°	438.1	438.1	444.2	382.9	346.2
82.5°	275.7	275.7	272.6	226.7	205.2
85°	144.0	140.9	137.9	110.3	101.1
87.5°	52.1	52.1	42.9	39.8	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)