

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: P487237

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-27-120-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: P487237
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-LD4-3STD-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

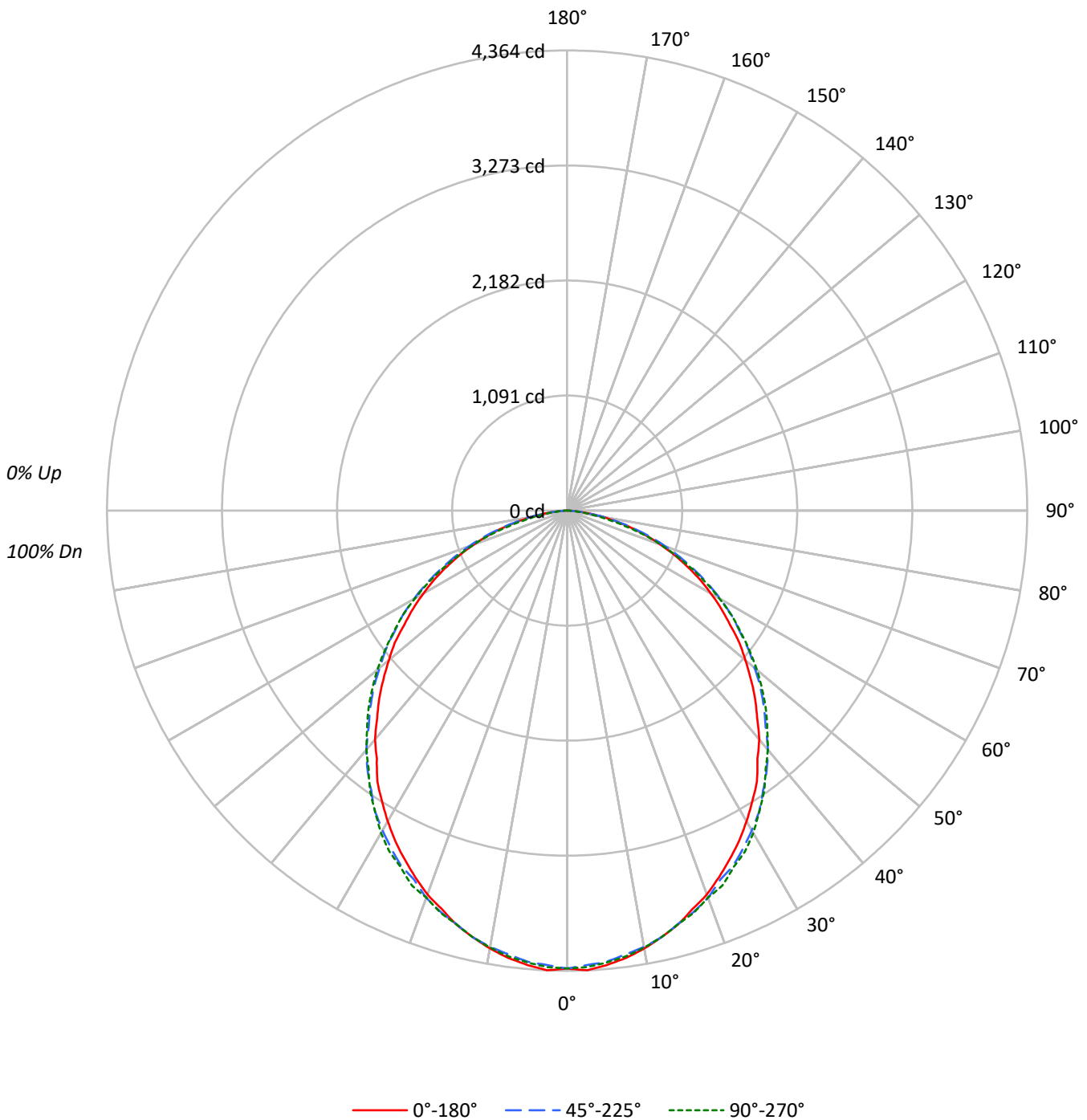
Lumens per Lamp: N/A
Luminaire Lumens: 11153.9 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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: P487237

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-27-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P487237

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-27-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5843	5843	5843
5°	5843	5801	5811
10°	5761	5742	5748
15°	5662	5655	5659
20°	5548	5596	5592
25°	5418	5523	5541
30°	5286	5441	5485
35°	5155	5323	5347
40°	4979	5204	5200
45°	4798	5024	5073
50°	4617	4855	4920
55°	4422	4684	4712
60°	4236	4517	4485
65°	4014	4240	4157
70°	3699	3895	3717
75°	3271	3407	2975
80°	2631	2668	2079
85°	1723	1649	1209



TEST NUMBER: P487237

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.2	3.7
10°-20°	1147.7	10.3
20°-30°	1708.7	15.3
30°-40°	2011.3	18.0
40°-50°	2016.5	18.1
50°-60°	1768.3	15.9
60°-70°	1293.0	11.6
70°-80°	666.4	6.0
80°-90°	133.7	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°	3264.6	29.3
0°-40°	5275.9	47.3
0°-60°	9060.7	81.2
0°-90°	11153.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11153.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4342	4342	4342	4342	4342	
5°	4326	4297	4295	4324	4302	409
15°	4065	4072	4060	4086	4062	1144
25°	3649	3666	3720	3773	3732	1681
35°	3139	3153	3241	3276	3255	1955
45°	2521	2533	2640	2673	2666	1943
55°	1885	1928	1997	2025	2009	1692
65°	1261	1289	1332	1327	1306	1247
75°	629	634	655	610	572	667
85°	112	109	107	86	78	146
90°	0	0	0	0	0	



TEST NUMBER: P487237

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4342.5	4342.5	4342.5	4342.5	4342.5
2.5°	4363.8	4342.5	4314.0	4337.7	4333.0
5°	4325.8	4297.4	4295.0	4323.5	4302.1
7.5°	4278.4	4273.6	4245.1	4276.0	4264.1
10°	4216.6	4211.9	4202.4	4223.8	4207.1
12.5°	4143.0	4138.3	4143.0	4154.9	4143.0
15°	4064.7	4071.8	4059.9	4086.0	4062.3
17.5°	3960.2	3967.3	3991.1	4000.6	3998.2
20°	3874.7	3879.5	3908.0	3946.0	3905.6
22.5°	3763.2	3775.0	3789.3	3858.1	3848.6
25°	3649.2	3665.8	3720.4	3772.6	3732.3
27.5°	3530.5	3547.1	3613.6	3651.6	3646.8
30°	3402.3	3418.9	3502.0	3554.2	3530.5
32.5°	3269.3	3297.8	3388.0	3433.1	3388.0
35°	3138.7	3153.0	3240.8	3276.4	3255.1
37.5°	2965.4	3020.0	3107.9	3131.6	3093.6
40°	2834.8	2837.2	2963.0	2963.0	2960.7
42.5°	2666.3	2704.2	2787.3	2832.5	2808.7
45°	2521.4	2533.3	2640.1	2673.4	2666.3
47.5°	2362.4	2409.8	2488.2	2526.2	2507.2
50°	2205.7	2238.9	2319.6	2369.5	2350.5
52.5°	2060.8	2086.9	2170.0	2198.5	2179.5
55°	1885.1	1927.9	1996.7	2025.2	2008.6
57.5°	1733.2	1764.1	1849.5	1859.0	1849.5
60°	1574.1	1609.7	1678.6	1685.7	1666.7
62.5°	1422.2	1445.9	1507.6	1510.0	1488.6
65°	1260.7	1289.2	1331.9	1327.2	1305.8
67.5°	1101.6	1120.6	1161.0	1144.4	1120.6
70°	940.2	956.8	990.1	966.3	944.9
72.5°	783.5	795.4	823.9	788.2	762.1
75°	629.2	633.9	655.3	610.2	572.2
77.5°	477.2	482.0	493.8	448.7	406.0
80°	339.5	339.5	344.3	296.8	268.3
82.5°	213.7	213.7	211.3	175.7	159.1
85°	111.6	109.2	106.8	85.5	78.3
87.5°	40.4	40.4	33.2	30.9	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)