

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: P487218

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-40-120-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: P487218
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-LD4-3HI-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

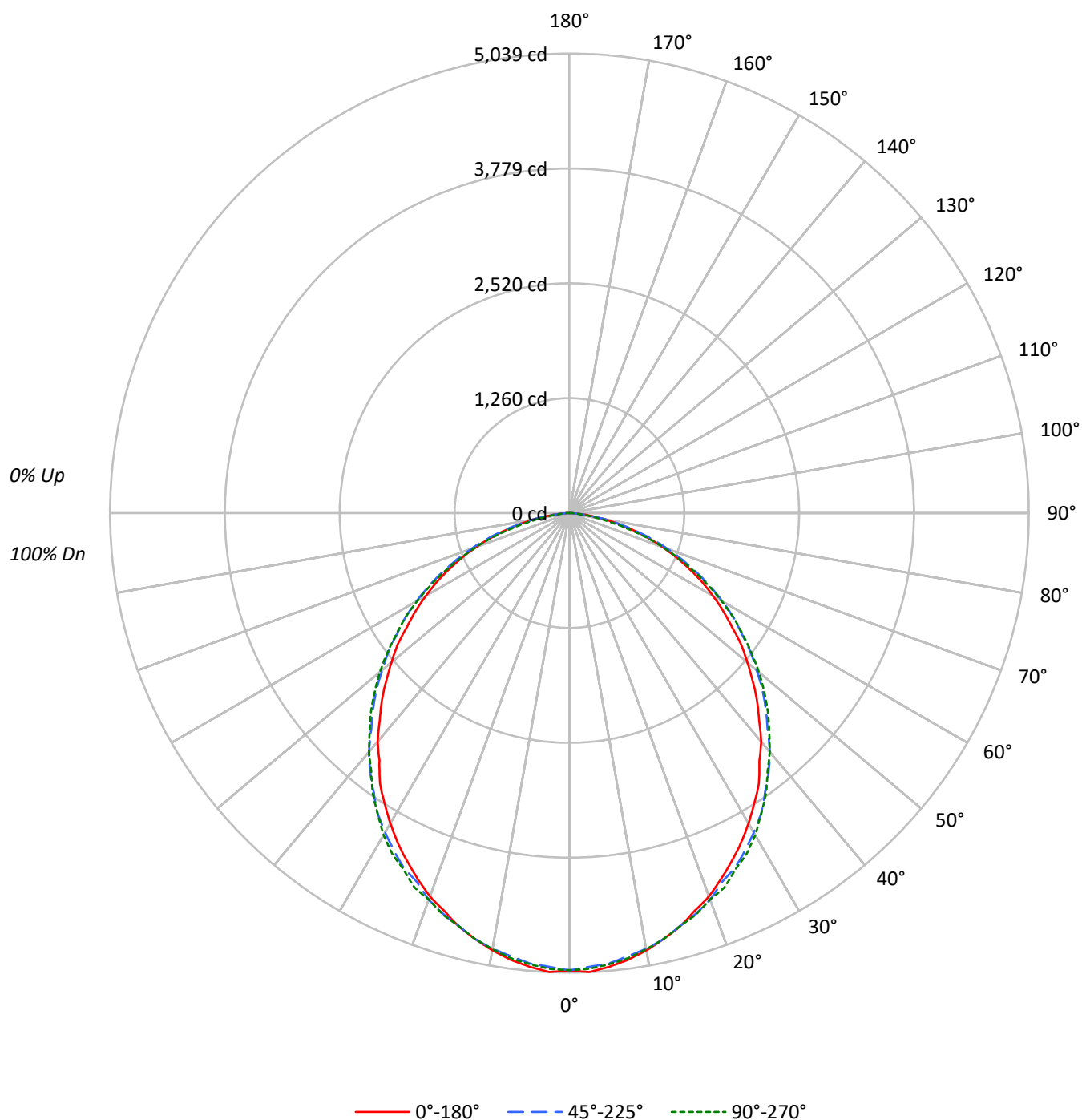
Lumens per Lamp: N/A
Luminaire Lumens: 12878.7 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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: P487218

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3HI-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487218

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3HI-40-120-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6746	6746	6746
5°	6746	6698	6709
10°	6652	6629	6637
15°	6537	6530	6534
20°	6406	6461	6457
25°	6255	6377	6398
30°	6103	6282	6333
35°	5953	6146	6173
40°	5749	6009	6004
45°	5540	5801	5858
50°	5331	5606	5681
55°	5106	5408	5440
60°	4891	5215	5179
65°	4635	4896	4800
70°	4271	4497	4292
75°	3777	3933	3435
80°	3037	3080	2400
85°	1988	1905	1397



TEST NUMBER: P487218

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.3	3.7
10°-20°	1325.2	10.3
20°-30°	1972.9	15.3
30°-40°	2322.3	18.0
40°-50°	2328.4	18.1
50°-60°	2041.8	15.9
60°-70°	1493.0	11.6
70°-80°	769.4	6.0
80°-90°	154.4	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°	3769.4	29.3
0°-40°	6091.7	47.3
0°-60°	10461.9	81.2
0°-90°	12878.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12878.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5014	5014	5014	5014	5014	
5°	4995	4962	4959	4992	4967	473
15°	4693	4702	4688	4718	4690	1321
25°	4214	4233	4296	4356	4309	1941
35°	3624	3640	3742	3783	3758	2257
45°	2911	2925	3048	3087	3079	2244
55°	2177	2226	2306	2338	2319	1954
65°	1456	1489	1538	1532	1508	1440
75°	726	732	757	704	661	770
85°	129	126	123	99	90	168
90°	0	0	0	0	0	



TEST NUMBER: P487218

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5014.0	5014.0	5014.0	5014.0	5014.0
2.5°	5038.6	5014.0	4981.1	5008.5	5003.0
5°	4994.8	4961.9	4959.1	4992.0	4967.4
7.5°	4939.9	4934.5	4901.6	4937.2	4923.5
10°	4868.7	4863.2	4852.2	4876.9	4857.7
12.5°	4783.7	4778.2	4783.7	4797.4	4783.7
15°	4693.2	4701.5	4687.7	4717.9	4690.5
17.5°	4572.6	4580.8	4608.2	4619.2	4616.5
20°	4473.9	4479.4	4512.3	4556.2	4509.6
22.5°	4345.1	4358.8	4375.2	4454.7	4443.8
25°	4213.5	4232.7	4295.7	4356.0	4309.4
27.5°	4076.4	4095.6	4172.4	4216.2	4210.7
30°	3928.4	3947.6	4043.5	4103.8	4076.4
32.5°	3774.9	3807.8	3911.9	3964.0	3911.9
35°	3624.1	3640.5	3742.0	3783.1	3758.4
37.5°	3424.0	3487.0	3588.5	3615.9	3572.0
40°	3273.2	3275.9	3421.2	3421.2	3418.5
42.5°	3078.6	3122.4	3218.4	3270.5	3243.0
45°	2911.3	2925.0	3048.4	3086.8	3078.6
47.5°	2727.7	2782.5	2873.0	2916.8	2894.9
50°	2546.7	2585.1	2678.3	2735.9	2714.0
52.5°	2379.5	2409.7	2505.6	2538.5	2516.6
55°	2176.6	2226.0	2305.5	2338.4	2319.2
57.5°	2001.2	2036.8	2135.5	2146.5	2135.5
60°	1817.5	1858.6	1938.1	1946.4	1924.4
62.5°	1642.1	1669.5	1740.8	1743.5	1718.8
65°	1455.7	1488.6	1537.9	1532.4	1507.8
67.5°	1272.0	1293.9	1340.5	1321.3	1293.9
70°	1085.6	1104.8	1143.2	1115.7	1091.1
72.5°	904.7	918.4	951.3	910.1	880.0
75°	726.5	731.9	756.6	704.5	660.7
77.5°	551.0	556.5	570.2	518.1	468.8
80°	392.0	392.0	397.5	342.7	309.8
82.5°	246.7	246.7	244.0	202.9	183.7
85°	128.8	126.1	123.4	98.7	90.5
87.5°	46.6	46.6	38.4	35.6	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)