

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: P487326

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-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: P487326
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-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

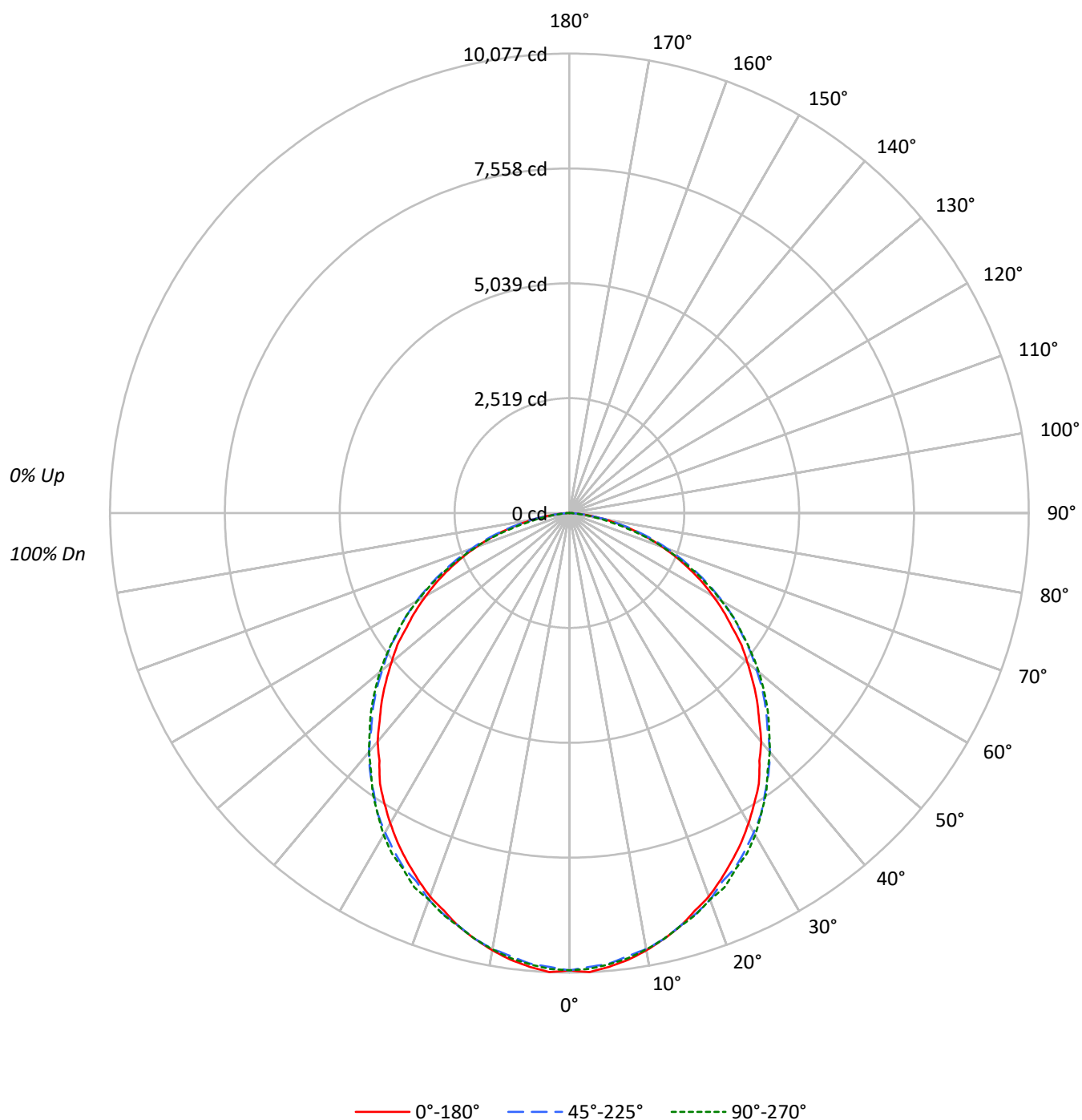
Lumens per Lamp: N/A
Luminaire Lumens: 25757.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P487326

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487326

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-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°	13492	13492	13492
5°	13492	13396	13418
10°	13304	13259	13274
15°	13075	13060	13067
20°	12812	12922	12914
25°	12510	12755	12795
30°	12206	12564	12666
35°	11905	12293	12347
40°	11498	12018	12009
45°	11079	11601	11716
50°	10662	11212	11362
55°	10212	10816	10881
60°	9782	10431	10357
65°	9269	9792	9600
70°	8541	8994	8584
75°	7553	7866	6869
80°	6075	6160	4800
85°	3978	3808	2793



TEST NUMBER: P487326

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.6	3.7
10°-20°	2650.4	10.3
20°-30°	3945.9	15.3
30°-40°	4644.5	18.0
40°-50°	4656.8	18.1
50°-60°	4083.6	15.9
60°-70°	2986.0	11.6
70°-80°	1538.9	6.0
80°-90°	308.7	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°	7538.8	29.3
0°-40°	12183.3	47.3
0°-60°	20923.7	81.2
0°-90°	25757.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25757.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10028	10028	10028	10028	10028	
5°	9990	9924	9918	9984	9935	946
15°	9386	9403	9376	9436	9381	2642
25°	8427	8465	8591	8712	8619	3882
35°	7248	7281	7484	7566	7517	4514
45°	5823	5850	6097	6174	6157	4487
55°	4353	4452	4611	4677	4638	3908
65°	2911	2977	3076	3065	3016	2880
75°	1453	1464	1513	1409	1321	1540
85°	258	252	247	197	181	336
90°	0	0	0	0	0	



TEST NUMBER: P487326

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10027.9	10027.9	10027.9	10027.9	10027.9
2.5°	10077.2	10027.9	9962.1	10016.9	10006.0
5°	9989.5	9923.7	9918.2	9984.0	9934.7
7.5°	9879.9	9868.9	9803.1	9874.4	9847.0
10°	9737.3	9726.3	9704.4	9753.8	9715.4
12.5°	9567.3	9556.4	9567.3	9594.8	9567.3
15°	9386.4	9402.9	9375.5	9435.8	9380.9
17.5°	9145.2	9161.6	9216.5	9238.4	9232.9
20°	8947.8	8958.8	9024.6	9112.3	9019.1
22.5°	8690.1	8717.5	8750.4	8909.4	8887.5
25°	8426.9	8465.3	8591.4	8712.0	8618.8
27.5°	8152.8	8191.2	8344.7	8432.4	8421.5
30°	7856.7	7895.1	8087.0	8207.6	8152.8
32.5°	7549.7	7615.5	7823.8	7928.0	7823.8
35°	7248.2	7281.1	7483.9	7566.2	7516.8
37.5°	6847.9	6974.0	7176.9	7231.7	7144.0
40°	6546.4	6551.9	6842.4	6842.4	6837.0
42.5°	6157.1	6244.8	6436.7	6540.9	6486.1
45°	5822.6	5850.1	6096.8	6173.5	6157.1
47.5°	5455.3	5565.0	5745.9	5833.6	5789.8
50°	5093.4	5170.2	5356.6	5471.8	5427.9
52.5°	4759.0	4819.3	5011.2	5077.0	5033.1
55°	4353.3	4452.0	4611.0	4676.8	4638.4
57.5°	4002.4	4073.7	4271.0	4293.0	4271.0
60°	3635.0	3717.3	3876.3	3892.7	3848.9
62.5°	3284.1	3339.0	3481.5	3487.0	3437.7
65°	2911.3	2977.1	3075.8	3064.8	3015.5
67.5°	2544.0	2587.8	2681.0	2642.7	2587.8
70°	2171.2	2209.5	2286.3	2231.5	2182.1
72.5°	1809.3	1836.7	1902.5	1820.3	1760.0
75°	1452.9	1463.9	1513.2	1409.1	1321.3
77.5°	1102.0	1113.0	1140.4	1036.2	937.5
80°	784.0	784.0	795.0	685.3	619.5
82.5°	493.4	493.4	488.0	405.7	367.3
85°	257.7	252.2	246.7	197.4	180.9
87.5°	93.2	93.2	76.8	71.3	76.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)