

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: P487339

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-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: P487339
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-LD4-6LO-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

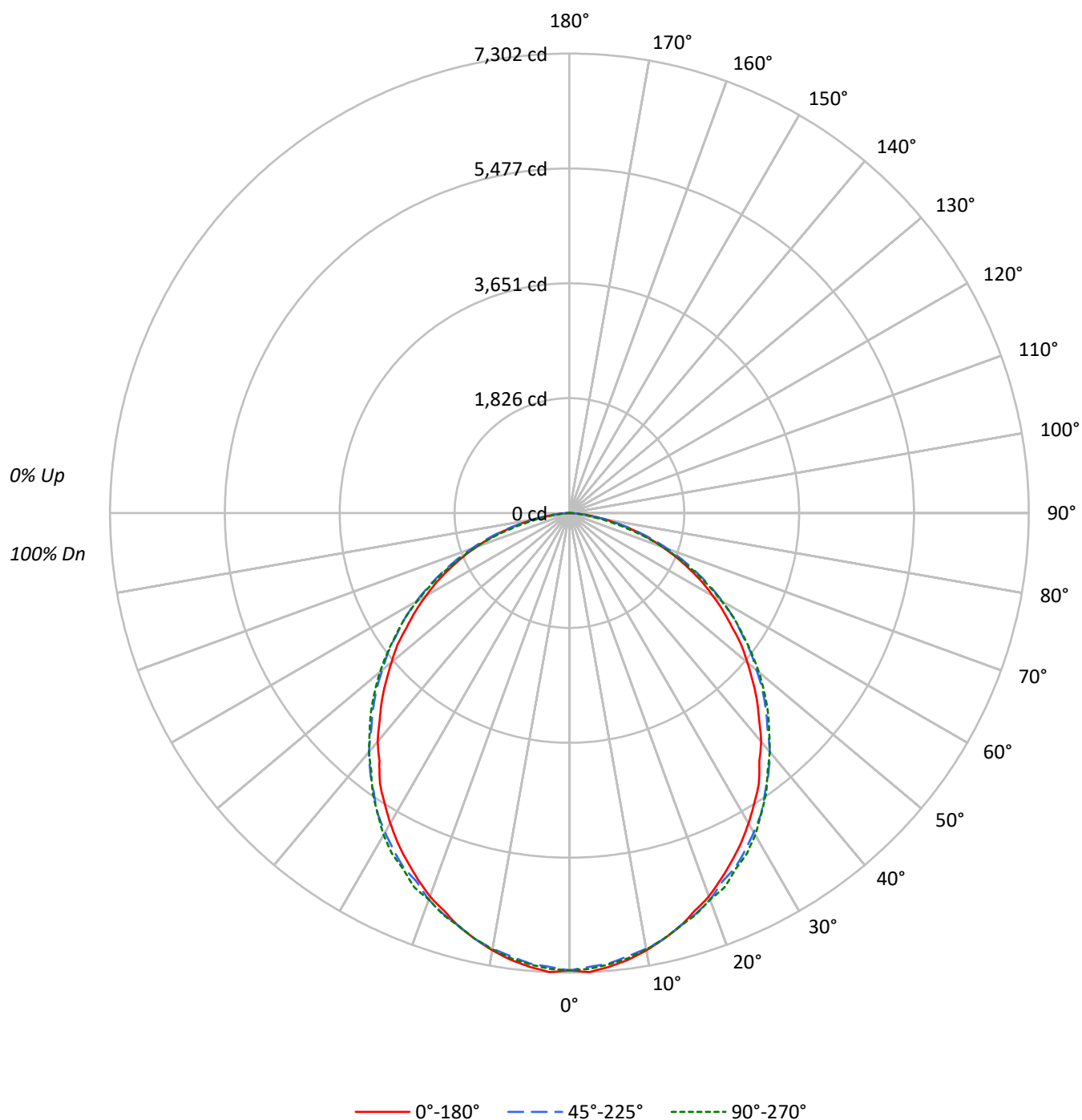
Lumens per Lamp: N/A
Luminaire Lumens: 18662.7 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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: P487339

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

Luminous Intensity Polar Plot





TEST NUMBER: P487339

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

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°	9776	9776	9776
5°	9776	9706	9722
10°	9639	9607	9618
15°	9473	9462	9468
20°	9283	9363	9357
25°	9065	9242	9271
30°	8844	9104	9178
35°	8626	8907	8946
40°	8331	8708	8701
45°	8028	8406	8489
50°	7725	8124	8232
55°	7399	7837	7884
60°	7087	7558	7504
65°	6716	7095	6956
70°	6188	6517	6220
75°	5473	5700	4977
80°	4402	4463	3478
85°	2882	2760	2024



TEST NUMBER: P487339

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.9	3.7
10°-20°	1920.3	10.3
20°-30°	2859.0	15.3
30°-40°	3365.2	18.0
40°-50°	3374.1	18.1
50°-60°	2958.8	15.9
60°-70°	2163.5	11.6
70°-80°	1115.0	6.0
80°-90°	223.7	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°	5462.3	29.3
0°-40°	8827.6	47.3
0°-60°	15160.4	81.2
0°-90°	18662.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18662.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7266	7266	7266	7266	7266	
5°	7238	7190	7186	7234	7198	685
15°	6801	6813	6793	6837	6797	1914
25°	6106	6134	6225	6312	6245	2813
35°	5252	5276	5422	5482	5446	3271
45°	4219	4239	4418	4473	4461	3251
55°	3154	3226	3341	3389	3361	2831
65°	2109	2157	2229	2221	2185	2087
75°	1053	1061	1096	1021	957	1116
85°	187	183	179	143	131	244
90°	0	0	0	0	0	



TEST NUMBER: P487339

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7265.8	7265.8	7265.8	7265.8	7265.8
2.5°	7301.6	7265.8	7218.1	7257.9	7249.9
5°	7238.0	7190.3	7186.4	7234.0	7198.3
7.5°	7158.5	7150.6	7102.9	7154.6	7134.7
10°	7055.3	7047.3	7031.4	7067.2	7039.4
12.5°	6932.1	6924.2	6932.1	6952.0	6932.1
15°	6801.0	6812.9	6793.1	6836.8	6797.0
17.5°	6626.2	6638.1	6677.9	6693.8	6689.8
20°	6483.2	6491.2	6538.8	6602.4	6534.9
22.5°	6296.5	6316.4	6340.2	6455.4	6439.5
25°	6105.8	6133.6	6225.0	6312.4	6244.9
27.5°	5907.2	5935.0	6046.2	6109.8	6101.8
30°	5692.7	5720.5	5859.5	5946.9	5907.2
32.5°	5470.2	5517.9	5668.8	5744.3	5668.8
35°	5251.7	5275.6	5422.5	5482.1	5446.4
37.5°	4961.7	5053.1	5200.1	5239.8	5176.2
40°	4743.2	4747.2	4957.8	4957.8	4953.8
42.5°	4461.2	4524.7	4663.8	4739.3	4699.5
45°	4218.9	4238.7	4417.5	4473.1	4461.2
47.5°	3952.7	4032.1	4163.2	4226.8	4195.0
50°	3690.5	3746.1	3881.2	3964.6	3932.8
52.5°	3448.2	3491.9	3630.9	3678.6	3646.8
55°	3154.2	3225.7	3340.9	3388.6	3360.8
57.5°	2900.0	2951.6	3094.6	3110.5	3094.6
60°	2633.8	2693.4	2808.6	2820.5	2788.7
62.5°	2379.6	2419.3	2522.6	2526.5	2490.8
65°	2109.4	2157.1	2228.6	2220.7	2184.9
67.5°	1843.3	1875.0	1942.6	1914.8	1875.0
70°	1573.1	1600.9	1656.6	1616.8	1581.1
72.5°	1310.9	1330.8	1378.5	1318.9	1275.2
75°	1052.7	1060.7	1096.4	1020.9	957.4
77.5°	798.5	806.4	826.3	750.8	679.3
80°	568.1	568.1	576.0	496.6	448.9
82.5°	357.5	357.5	353.6	294.0	266.2
85°	186.7	182.7	178.8	143.0	131.1
87.5°	67.5	67.5	55.6	51.6	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)