

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: P487309

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-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: P487309
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-LD4-5STD-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

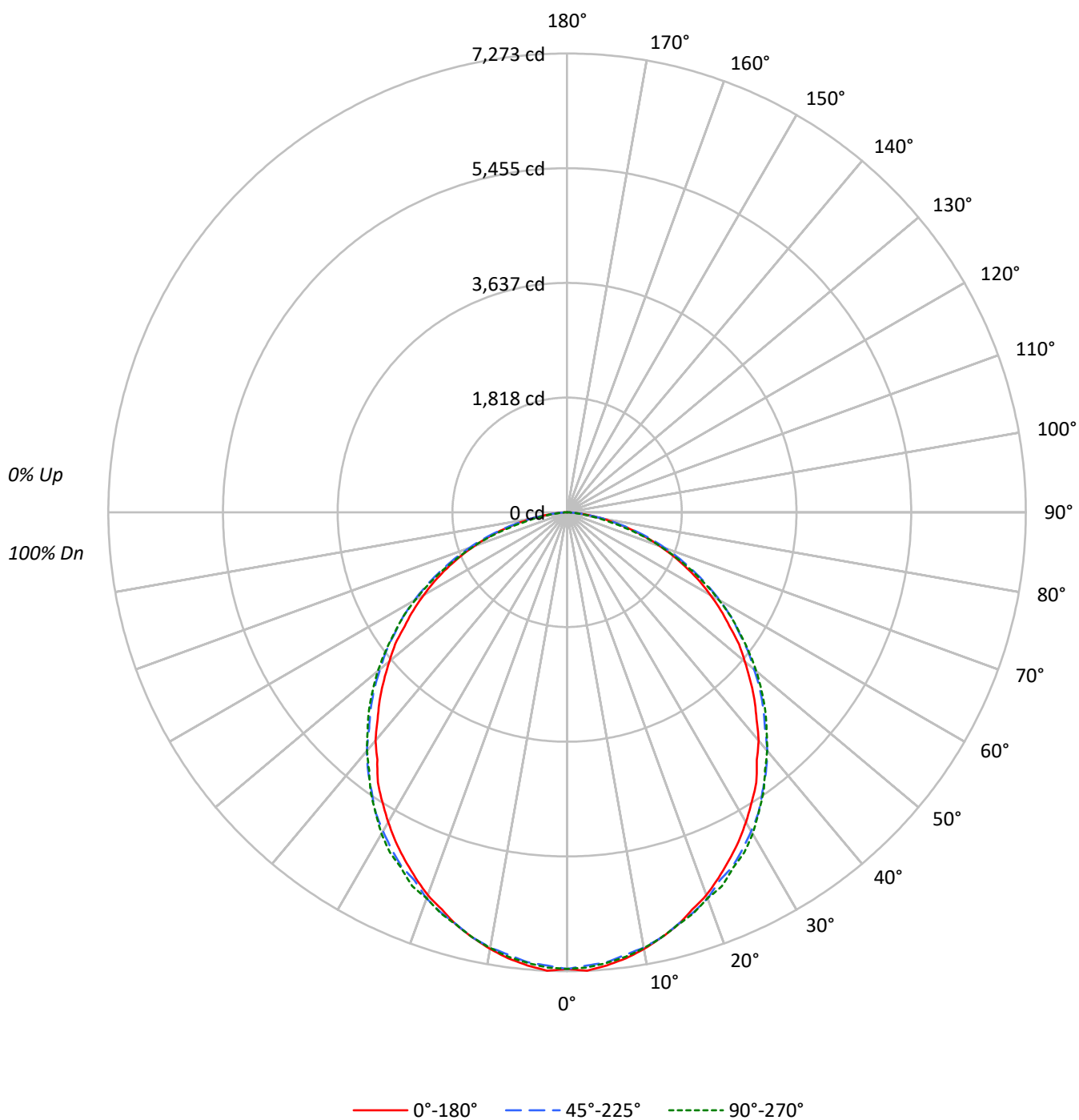
Lumens per Lamp: N/A
Luminaire Lumens: 18589.8 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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: P487309

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5STD-27-120-EDD

Luminous Intensity Polar Plot



TEST NUMBER: P487309

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5STD-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°	9738	9738	9738
5°	9738	9668	9684
10°	9602	9569	9580
15°	9437	9425	9431
20°	9247	9326	9320
25°	9029	9205	9235
30°	8810	9068	9142
35°	8592	8872	8911
40°	8299	8674	8667
45°	7996	8373	8456
50°	7695	8092	8200
55°	7370	7807	7853
60°	7060	7528	7475
65°	6690	7067	6929
70°	6164	6491	6196
75°	5451	5677	4957
80°	4385	4446	3464
85°	2871	2749	2016



TEST NUMBER: P487309

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.3	3.7
10°-20°	1912.8	10.3
20°-30°	2847.9	15.3
30°-40°	3352.1	18.0
40°-50°	3360.9	18.1
50°-60°	2947.2	15.9
60°-70°	2155.1	11.6
70°-80°	1110.7	6.0
80°-90°	222.8	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°	5441.0	29.3
0°-40°	8793.1	47.3
0°-60°	15101.2	81.2
0°-90°	18589.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18589.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7237	7237	7237	7237	7237	
5°	7210	7162	7158	7206	7170	682
15°	6774	6786	6766	6810	6770	1907
25°	6082	6110	6201	6288	6220	2802
35°	5231	5255	5401	5461	5425	3258
45°	4202	4222	4400	4456	4444	3239
55°	3142	3213	3328	3375	3348	2820
65°	2101	2149	2220	2212	2176	2079
75°	1049	1056	1092	1017	954	1111
85°	186	182	178	142	131	243
90°	0	0	0	0	0	



TEST NUMBER: P487309

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-5STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7237.4	7237.4	7237.4	7237.4	7237.4
2.5°	7273.0	7237.4	7189.9	7229.5	7221.6
5°	7209.7	7162.2	7158.3	7205.8	7170.2
7.5°	7130.6	7122.7	7075.2	7126.6	7106.8
10°	7027.7	7019.8	7004.0	7039.6	7011.9
12.5°	6905.0	6897.1	6905.0	6924.8	6905.0
15°	6774.5	6786.3	6766.5	6810.1	6770.5
17.5°	6600.3	6612.2	6651.8	6667.6	6663.7
20°	6457.9	6465.8	6513.3	6576.6	6509.3
22.5°	6271.9	6291.7	6315.4	6430.2	6414.4
25°	6082.0	6109.7	6200.7	6287.7	6220.5
27.5°	5884.1	5911.8	6022.6	6085.9	6078.0
30°	5670.4	5698.1	5836.6	5923.7	5884.1
32.5°	5448.8	5496.3	5646.7	5721.9	5646.7
35°	5231.2	5254.9	5401.4	5460.7	5425.1
37.5°	4942.3	5033.4	5179.8	5219.3	5156.0
40°	4724.7	4728.7	4938.4	4938.4	4934.4
42.5°	4443.8	4507.1	4645.6	4720.7	4681.2
45°	4202.4	4222.2	4400.2	4455.6	4443.8
47.5°	3937.3	4016.4	4147.0	4210.3	4178.6
50°	3676.1	3731.5	3866.0	3949.1	3917.5
52.5°	3434.7	3478.2	3616.7	3664.2	3632.6
55°	3141.9	3213.1	3327.9	3375.4	3347.7
57.5°	2888.6	2940.1	3082.5	3098.4	3082.5
60°	2623.5	2682.9	2797.6	2809.5	2777.8
62.5°	2370.3	2409.8	2512.7	2516.7	2481.1
65°	2101.2	2148.7	2219.9	2212.0	2176.4
67.5°	1836.1	1867.7	1935.0	1907.3	1867.7
70°	1567.0	1594.7	1650.1	1610.5	1574.9
72.5°	1305.8	1325.6	1373.1	1313.7	1270.2
75°	1048.6	1056.5	1092.1	1017.0	953.6
77.5°	795.4	803.3	823.1	747.9	676.7
80°	565.9	565.9	573.8	494.6	447.1
82.5°	356.1	356.1	352.2	292.8	265.1
85°	186.0	182.0	178.1	142.5	130.6
87.5°	67.3	67.3	55.4	51.4	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)