

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: P487287

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-30-120-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: P487287
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-LD4-5HI-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

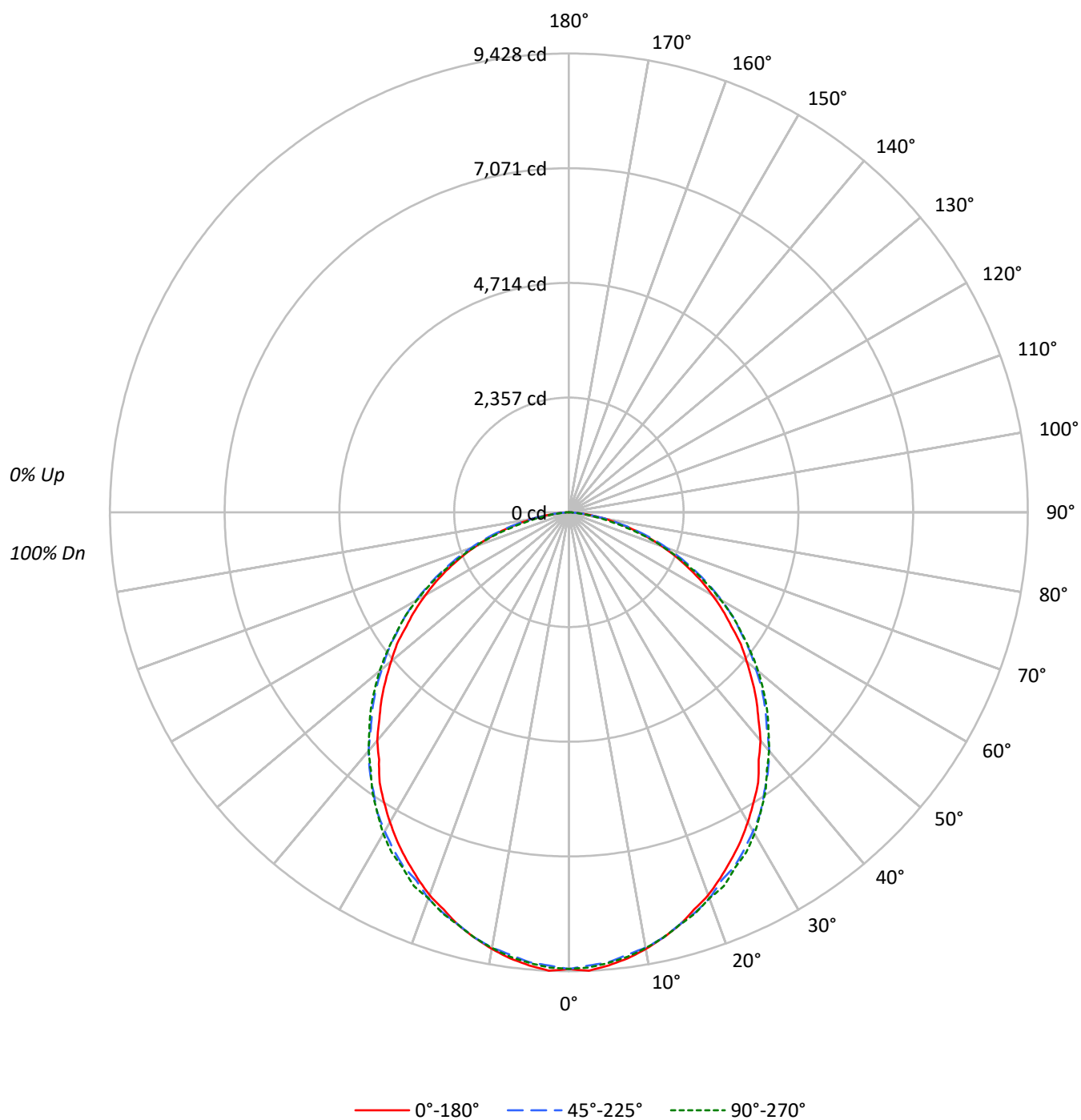
Lumens per Lamp: N/A
Luminaire Lumens: 24098.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	12623	12623	12623
5°	12623	12533	12554
10°	12447	12405	12419
15°	12233	12218	12226
20°	11987	12089	12082
25°	11705	11933	11971
30°	11420	11755	11851
35°	11139	11501	11551
40°	10757	11244	11235
45°	10366	10854	10961
50°	9975	10490	10630
55°	9554	10120	10180
60°	9152	9759	9690
65°	8672	9162	8982
70°	7991	8415	8032
75°	7066	7360	6426
80°	5683	5763	4491
85°	3722	3563	2614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.9	3.7
10°-20°	2479.6	10.3
20°-30°	3691.7	15.3
30°-40°	4345.4	18.0
40°-50°	4356.8	18.1
50°-60°	3820.5	15.9
60°-70°	2793.7	11.6
70°-80°	1439.8	6.0
80°-90°	288.9	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°	7053.2	29.3
0°-40°	11398.6	47.3
0°-60°	19576.0	81.2
0°-90°	24098.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24098.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9382	9382	9382	9382	9382	
5°	9346	9284	9279	9341	9295	885
15°	8782	8797	8772	8828	8777	2471
25°	7884	7920	8038	8151	8064	3632
35°	6781	6812	7002	7079	7033	4223
45°	5448	5473	5704	5776	5760	4198
55°	4073	4165	4314	4376	4340	3656
65°	2724	2785	2878	2867	2821	2694
75°	1359	1370	1416	1318	1236	1440
85°	241	236	231	185	169	315
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9382.0	9382.0	9382.0	9382.0	9382.0
2.5°	9428.2	9382.0	9320.5	9371.7	9361.5
5°	9346.1	9284.5	9279.4	9341.0	9294.8
7.5°	9243.5	9233.3	9171.7	9238.4	9212.7
10°	9110.1	9099.9	9079.4	9125.5	9089.6
12.5°	8951.1	8940.9	8951.1	8976.8	8951.1
15°	8781.8	8797.2	8771.6	8828.0	8776.7
17.5°	8556.1	8571.5	8622.8	8643.3	8638.2
20°	8371.5	8381.7	8443.3	8525.4	8438.2
22.5°	8130.4	8156.0	8186.8	8335.6	8315.1
25°	7884.2	7920.1	8038.1	8150.9	8063.7
27.5°	7627.7	7663.6	7807.2	7889.3	7879.0
30°	7350.7	7386.6	7566.1	7679.0	7627.7
32.5°	7063.4	7125.0	7319.9	7417.4	7319.9
35°	6781.3	6812.1	7001.9	7078.8	7032.7
37.5°	6406.8	6524.8	6714.6	6765.9	6683.8
40°	6124.7	6129.9	6401.7	6401.7	6396.6
42.5°	5760.5	5842.6	6022.1	6119.6	6068.3
45°	5447.6	5473.3	5704.1	5775.9	5760.5
47.5°	5103.9	5206.5	5375.8	5457.9	5416.8
50°	4765.4	4837.2	5011.6	5119.3	5078.3
52.5°	4452.5	4508.9	4688.4	4750.0	4709.0
55°	4072.9	4165.2	4314.0	4375.5	4339.6
57.5°	3744.6	3811.3	3995.9	4016.5	3995.9
60°	3400.9	3477.9	3626.6	3642.0	3601.0
62.5°	3072.6	3123.9	3257.3	3262.4	3216.2
65°	2723.8	2785.4	2877.7	2867.4	2821.3
67.5°	2380.1	2421.2	2508.4	2472.5	2421.2
70°	2031.3	2067.2	2139.0	2087.7	2041.6
72.5°	1692.8	1718.4	1780.0	1703.0	1646.6
75°	1359.3	1369.6	1415.8	1318.3	1236.2
77.5°	1031.0	1041.3	1067.0	969.5	877.2
80°	733.5	733.5	743.8	641.2	579.6
82.5°	461.7	461.7	456.5	379.6	343.7
85°	241.1	236.0	230.8	184.7	169.3
87.5°	87.2	87.2	71.8	66.7	71.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)