

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: P487346

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-30-120-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: P487346
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-LD4-6STD-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

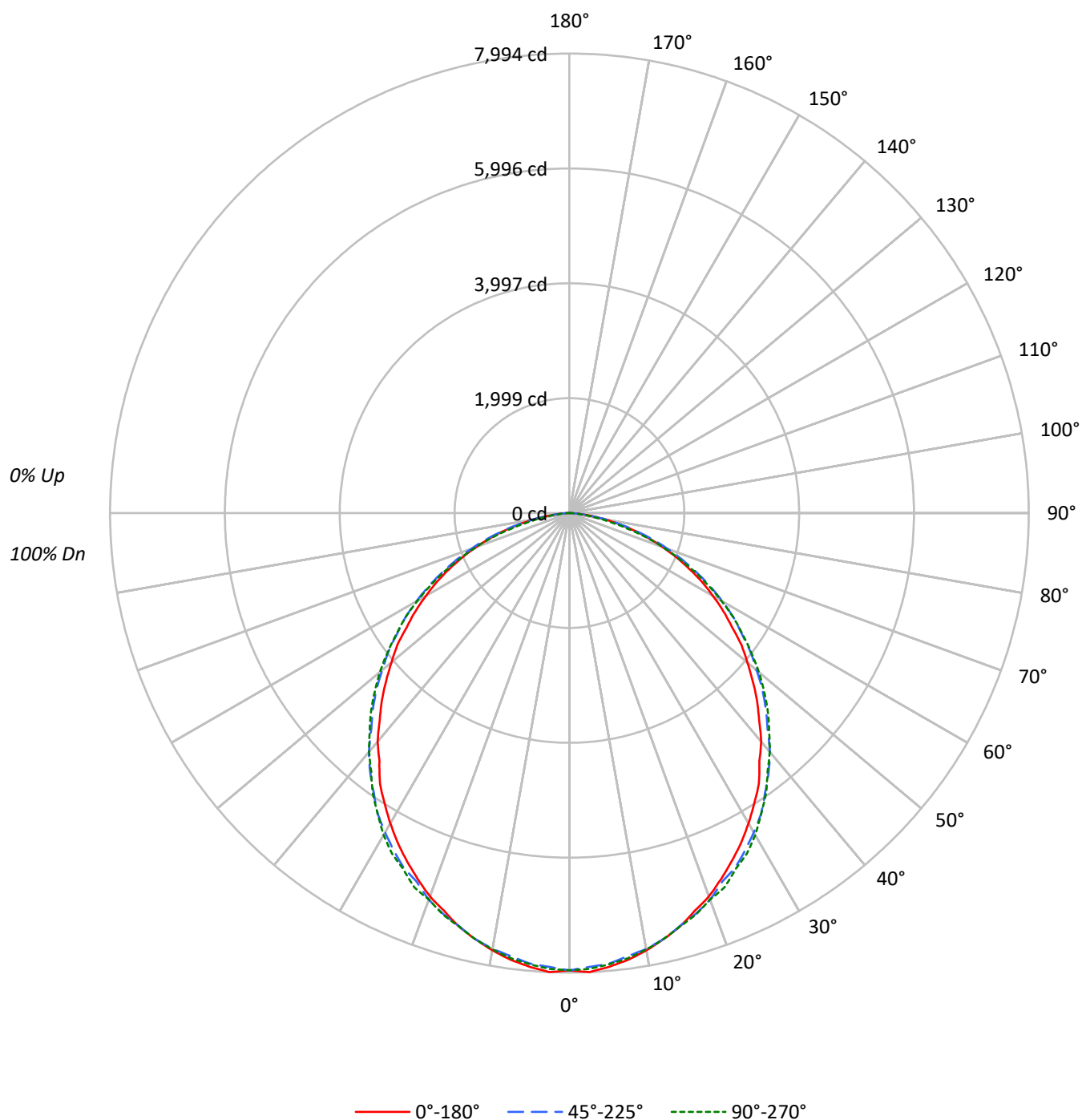
Lumens per Lamp: N/A
Luminaire Lumens: 20432.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	10703	10703	10703
5°	10703	10626	10644
10°	10553	10518	10530
15°	10372	10360	10366
20°	10163	10250	10244
25°	9924	10118	10150
30°	9683	9967	10048
35°	9444	9751	9794
40°	9121	9534	9526
45°	8789	9203	9294
50°	8458	8894	9013
55°	8101	8580	8631
60°	7760	8274	8216
65°	7353	7768	7616
70°	6775	7135	6810
75°	5992	6240	5449
80°	4819	4886	3808
85°	3155	3021	2215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.7	3.7
10°-20°	2102.4	10.3
20°-30°	3130.1	15.3
30°-40°	3684.4	18.0
40°-50°	3694.0	18.1
50°-60°	3239.4	15.9
60°-70°	2368.7	11.6
70°-80°	1220.7	6.0
80°-90°	244.9	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°	5980.3	29.3
0°-40°	9664.6	47.3
0°-60°	16598.1	81.2
0°-90°	20432.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20432.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7955	7955	7955	7955	7955	
5°	7924	7872	7868	7920	7881	750
15°	7446	7459	7437	7485	7442	2096
25°	6685	6715	6815	6911	6837	3079
35°	5750	5776	5937	6002	5963	3581
45°	4619	4641	4836	4897	4884	3560
55°	3453	3532	3658	3710	3680	3100
65°	2310	2362	2440	2431	2392	2285
75°	1153	1161	1200	1118	1048	1221
85°	204	200	196	157	144	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7954.8	7954.8	7954.8	7954.8	7954.8
2.5°	7993.9	7954.8	7902.6	7946.1	7937.4
5°	7924.3	7872.2	7867.8	7920.0	7880.9
7.5°	7837.4	7828.7	7776.5	7833.0	7811.3
10°	7724.3	7715.6	7698.2	7737.3	7706.9
12.5°	7589.5	7580.8	7589.5	7611.2	7589.5
15°	7445.9	7459.0	7437.2	7485.1	7441.6
17.5°	7254.6	7267.6	7311.1	7328.5	7324.1
20°	7098.0	7106.7	7158.9	7228.5	7154.5
22.5°	6893.6	6915.3	6941.4	7067.5	7050.1
25°	6684.8	6715.3	6815.3	6911.0	6837.0
27.5°	6467.3	6497.8	6619.6	6689.2	6680.5
30°	6232.5	6262.9	6415.2	6510.8	6467.3
32.5°	5988.9	6041.1	6206.4	6289.0	6206.4
35°	5749.7	5775.8	5936.7	6002.0	5962.8
37.5°	5432.2	5532.3	5693.2	5736.7	5667.1
40°	5193.0	5197.4	5427.9	5427.9	5423.5
42.5°	4884.2	4953.8	5106.0	5188.7	5145.2
45°	4618.9	4640.7	4836.4	4897.3	4884.2
47.5°	4327.5	4414.5	4558.0	4627.6	4592.8
50°	4040.5	4101.3	4249.2	4340.6	4305.8
52.5°	3775.2	3823.0	3975.2	4027.4	3992.6
55°	3453.3	3531.6	3657.7	3709.9	3679.5
57.5°	3175.0	3231.5	3388.1	3405.5	3388.1
60°	2883.6	2948.8	3074.9	3088.0	3053.2
62.5°	2605.2	2648.7	2761.8	2766.1	2727.0
65°	2309.5	2361.6	2439.9	2431.2	2392.1
67.5°	2018.1	2052.8	2126.8	2096.3	2052.8
70°	1722.3	1752.8	1813.6	1770.1	1731.0
72.5°	1435.3	1457.0	1509.2	1444.0	1396.1
75°	1152.6	1161.3	1200.4	1117.8	1048.2
77.5°	874.2	882.9	904.6	822.0	743.7
80°	621.9	621.9	630.6	543.7	491.5
82.5°	391.4	391.4	387.1	321.8	291.4
85°	204.4	200.1	195.7	156.6	143.5
87.5°	73.9	73.9	60.9	56.5	60.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)