

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: P487280

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-50-120-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: P487280
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-LD4-4STD-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

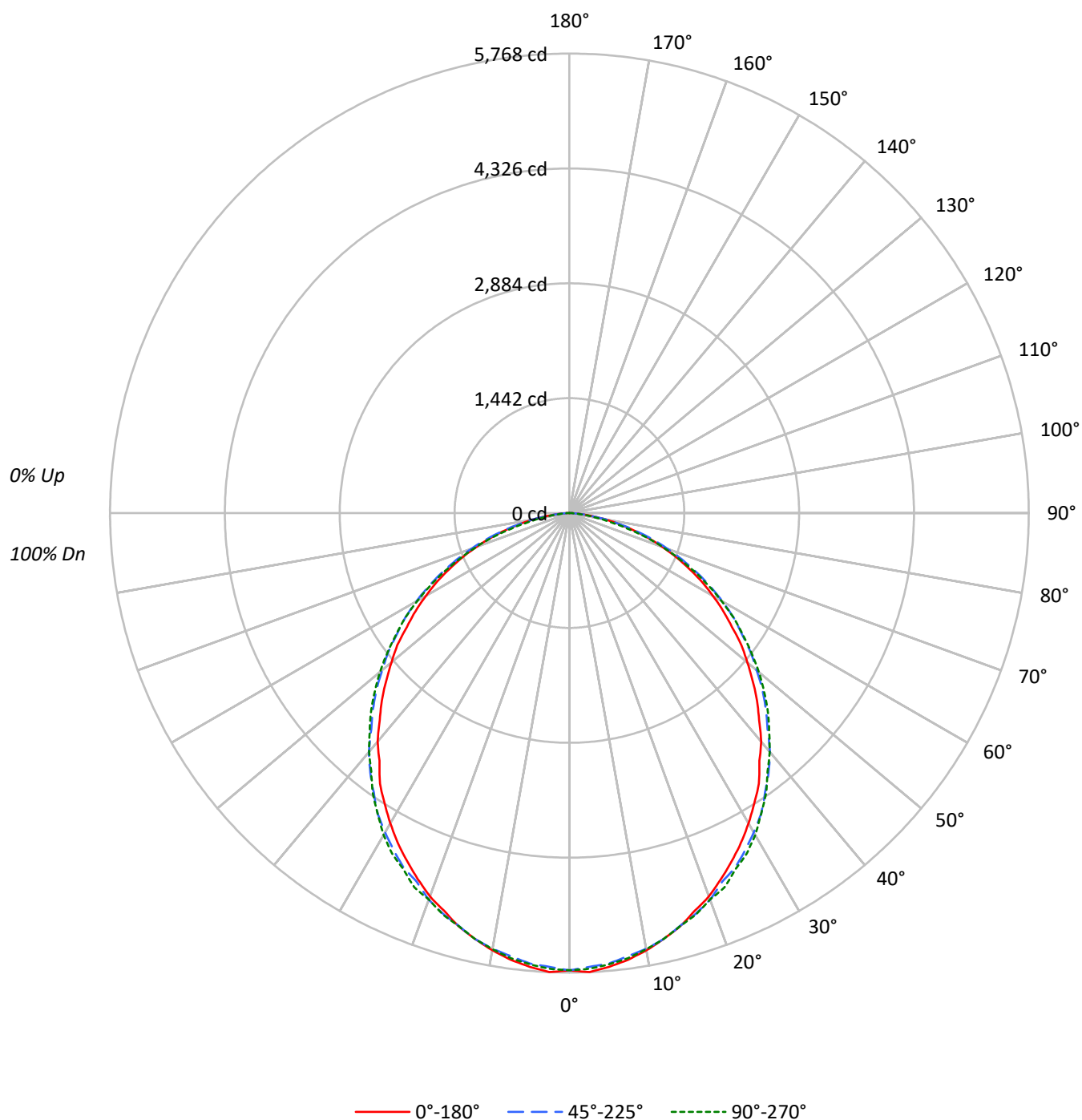
Lumens per Lamp: N/A
Luminaire Lumens: 14741.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	7722	7722	7722
5°	7722	7667	7680
10°	7614	7588	7597
15°	7483	7474	7479
20°	7333	7395	7391
25°	7160	7300	7323
30°	6986	7191	7249
35°	6814	7035	7066
40°	6581	6878	6873
45°	6341	6640	6705
50°	6102	6417	6503
55°	5845	6191	6227
60°	5598	5970	5928
65°	5305	5605	5494
70°	4888	5148	4913
75°	4323	4502	3931
80°	3477	3526	2748
85°	2277	2180	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.5	3.7
10°-20°	1516.9	10.3
20°-30°	2258.3	15.3
30°-40°	2658.2	18.0
40°-50°	2665.2	18.1
50°-60°	2337.1	15.9
60°-70°	1709.0	11.6
70°-80°	880.7	6.0
80°-90°	176.7	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°	4314.7	29.3
0°-40°	6972.8	47.3
0°-60°	11975.2	81.2
0°-90°	14741.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14741.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5739	5739	5739	5739	5739	
5°	5717	5680	5676	5714	5686	541
15°	5372	5382	5366	5400	5369	1512
25°	4823	4845	4917	4986	4933	2222
35°	4148	4167	4283	4330	4302	2583
45°	3332	3348	3489	3533	3524	2568
55°	2492	2548	2639	2677	2655	2236
65°	1666	1704	1760	1754	1726	1648
75°	832	838	866	806	756	881
85°	148	144	141	113	104	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5739.2	5739.2	5739.2	5739.2	5739.2
2.5°	5767.5	5739.2	5701.6	5733.0	5726.7
5°	5717.3	5679.6	5676.5	5714.1	5685.9
7.5°	5654.5	5648.2	5610.6	5651.4	5635.7
10°	5572.9	5566.7	5554.1	5582.3	5560.4
12.5°	5475.7	5469.4	5475.7	5491.3	5475.7
15°	5372.1	5381.5	5365.8	5400.3	5369.0
17.5°	5234.0	5243.4	5274.8	5287.4	5284.2
20°	5121.1	5127.3	5165.0	5215.2	5161.9
22.5°	4973.6	4989.3	5008.1	5099.1	5086.6
25°	4823.0	4844.9	4917.1	4986.1	4932.8
27.5°	4666.1	4688.0	4775.9	4826.1	4819.8
30°	4496.6	4518.6	4628.4	4697.4	4666.1
32.5°	4320.9	4358.6	4477.8	4537.4	4477.8
35°	4148.3	4167.1	4283.2	4330.3	4302.1
37.5°	3919.2	3991.4	4107.5	4138.9	4088.7
40°	3746.7	3749.8	3916.1	3916.1	3913.0
42.5°	3523.9	3574.1	3683.9	3743.5	3712.1
45°	3332.5	3348.1	3489.4	3533.3	3523.9
47.5°	3122.2	3185.0	3288.5	3338.7	3313.6
50°	2915.1	2959.0	3065.7	3131.6	3106.5
52.5°	2723.7	2758.2	2868.0	2905.7	2880.6
55°	2491.5	2548.0	2639.0	2676.6	2654.7
57.5°	2290.7	2331.5	2444.4	2457.0	2444.4
60°	2080.4	2127.5	2218.5	2227.9	2202.8
62.5°	1879.6	1911.0	1992.6	1995.7	1967.5
65°	1666.2	1703.9	1760.4	1754.1	1725.8
67.5°	1456.0	1481.1	1534.4	1512.5	1481.1
70°	1242.6	1264.6	1308.5	1277.1	1248.9
72.5°	1035.5	1051.2	1088.9	1041.8	1007.3
75°	831.5	837.8	866.1	806.4	756.2
77.5°	630.7	637.0	652.7	593.1	536.6
80°	448.7	448.7	455.0	392.2	354.6
82.5°	282.4	282.4	279.3	232.2	210.2
85°	147.5	144.3	141.2	113.0	103.6
87.5°	53.3	53.3	43.9	40.8	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)