

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: P487322

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-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: P487322
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-LD4-6HI-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

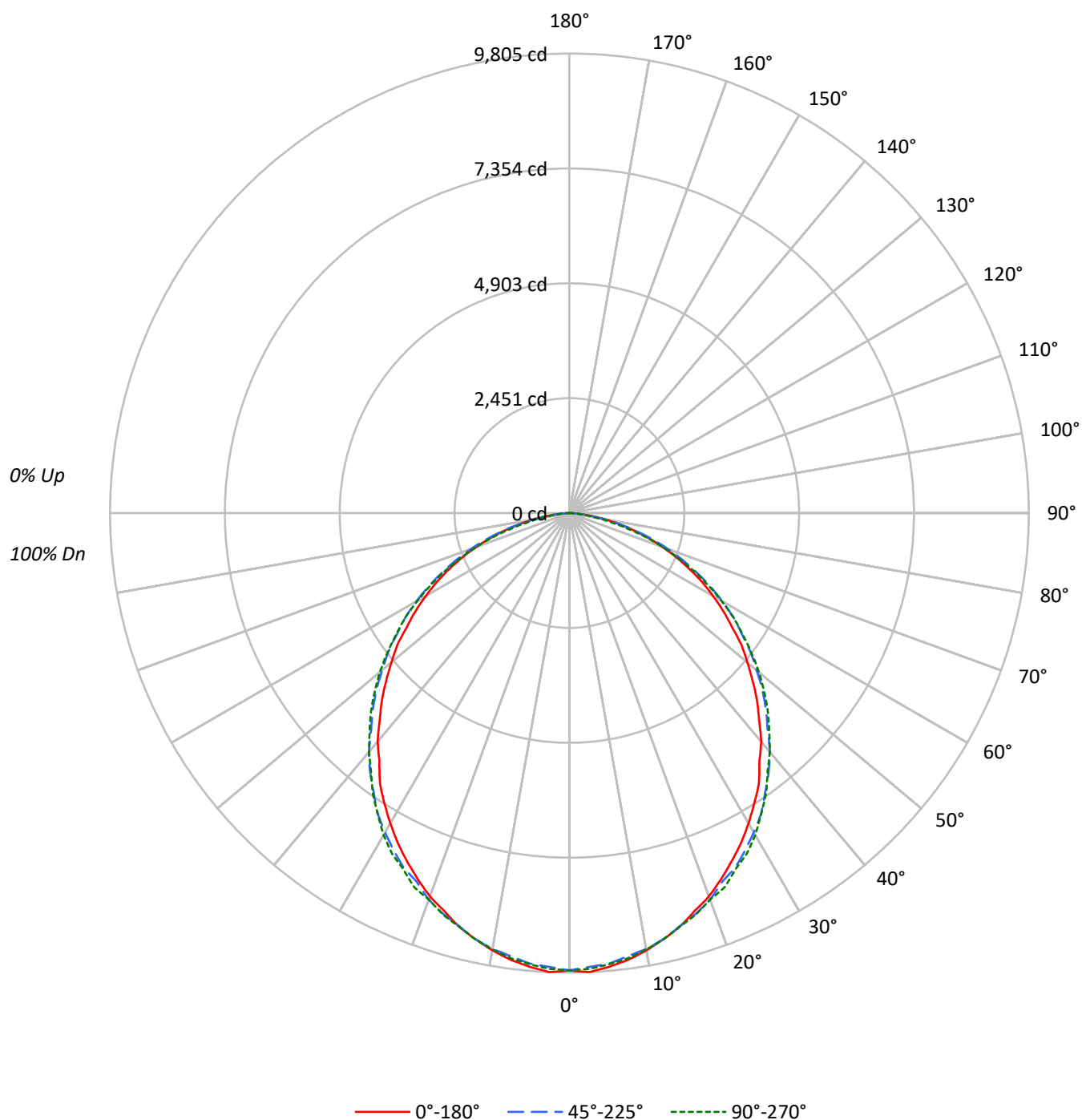
Lumens per Lamp: N/A
Luminaire Lumens: 25061.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	13128	13128	13128
5°	13128	13034	13056
10°	12944	12901	12915
15°	12722	12707	12714
20°	12466	12573	12565
25°	12173	12410	12450
30°	11877	12225	12325
35°	11584	11961	12013
40°	11188	11694	11684
45°	10780	11288	11400
50°	10374	10910	11055
55°	9936	10524	10587
60°	9518	10149	10078
65°	9018	9528	9341
70°	8310	8751	8353
75°	7349	7654	6684
80°	5911	5993	4671
85°	3870	3707	2717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.1	3.7
10°-20°	2578.8	10.3
20°-30°	3839.4	15.3
30°-40°	4519.2	18.0
40°-50°	4531.0	18.1
50°-60°	3973.3	15.9
60°-70°	2905.4	11.6
70°-80°	1497.3	6.0
80°-90°	300.4	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°	7335.3	29.3
0°-40°	11854.4	47.3
0°-60°	20358.8	81.2
0°-90°	25061.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25061.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9757	9757	9757	9757	9757	
5°	9720	9656	9650	9714	9666	920
15°	9133	9149	9122	9181	9128	2570
25°	8199	8237	8360	8477	8386	3777
35°	7052	7084	7282	7362	7314	4392
45°	5665	5692	5932	6007	5991	4366
55°	4236	4332	4486	4550	4513	3802
65°	2833	2897	2993	2982	2934	2802
75°	1414	1424	1472	1371	1286	1498
85°	251	245	240	192	176	327
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9757.2	9757.2	9757.2	9757.2	9757.2
2.5°	9805.2	9757.2	9693.1	9746.5	9735.8
5°	9719.8	9655.8	9650.5	9714.5	9666.5
7.5°	9613.1	9602.5	9538.4	9607.8	9581.1
10°	9474.4	9463.8	9442.4	9490.4	9453.1
12.5°	9309.0	9298.4	9309.0	9335.7	9309.0
15°	9133.0	9149.0	9122.3	9181.0	9127.7
17.5°	8898.3	8914.3	8967.6	8989.0	8983.6
20°	8706.2	8716.9	8780.9	8866.3	8775.6
22.5°	8455.5	8482.2	8514.2	8668.9	8647.5
25°	8199.4	8236.8	8359.5	8476.8	8386.1
27.5°	7932.7	7970.0	8119.4	8204.8	8194.1
30°	7644.6	7682.0	7868.7	7986.0	7932.7
32.5°	7345.9	7409.9	7612.6	7714.0	7612.6
35°	7052.5	7084.5	7281.9	7361.9	7313.9
37.5°	6663.0	6785.7	6983.1	7036.5	6951.1
40°	6369.6	6375.0	6657.7	6657.7	6652.4
42.5°	5990.9	6076.2	6262.9	6364.3	6310.9
45°	5665.4	5692.1	5932.2	6006.9	5990.9
47.5°	5308.0	5414.7	5590.8	5676.1	5633.4
50°	4955.9	5030.6	5212.0	5324.0	5281.3
52.5°	4630.5	4689.2	4875.9	4939.9	4897.3
55°	4235.7	4331.8	4486.5	4550.5	4513.2
57.5°	3894.3	3963.7	4155.7	4177.1	4155.7
60°	3536.9	3616.9	3771.6	3787.6	3745.0
62.5°	3195.5	3248.8	3387.5	3392.9	3344.9
65°	2832.7	2896.7	2992.8	2982.1	2934.1
67.5°	2475.3	2518.0	2608.7	2571.3	2518.0
70°	2112.5	2149.9	2224.6	2171.2	2123.2
72.5°	1760.4	1787.1	1851.1	1771.1	1712.4
75°	1413.7	1424.4	1472.4	1371.0	1285.7
77.5°	1072.3	1082.9	1109.6	1008.3	912.2
80°	762.9	762.9	773.5	666.8	602.8
82.5°	480.1	480.1	474.8	394.8	357.4
85°	250.7	245.4	240.1	192.0	176.0
87.5°	90.7	90.7	74.7	69.4	74.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)