

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: P487217

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-35-120-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: P487217
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-LD4-3HI-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

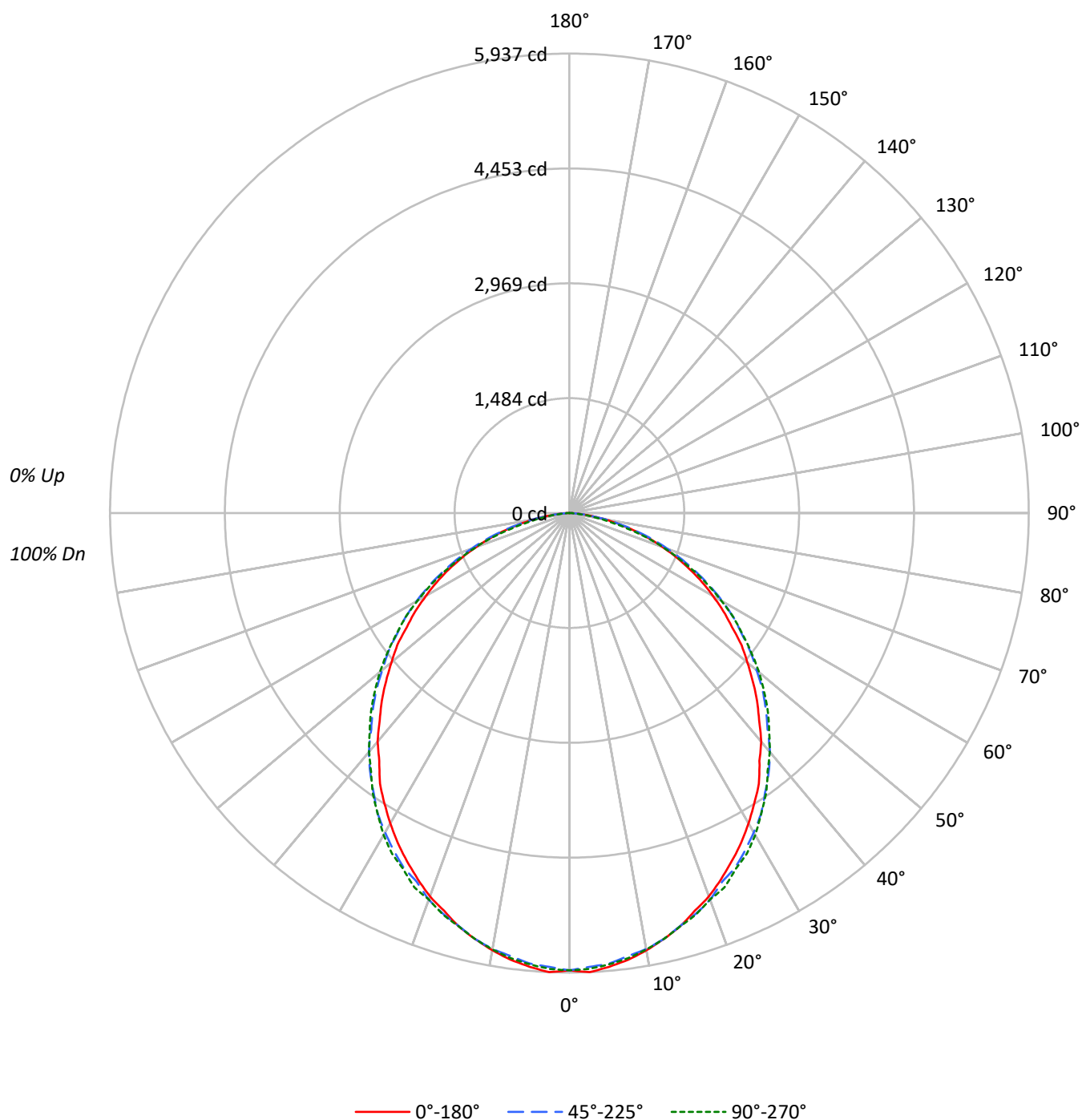
Lumens per Lamp: N/A
Luminaire Lumens: 15175.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	7950	7950	7950
5°	7949	7893	7906
10°	7838	7812	7821
15°	7703	7695	7699
20°	7549	7613	7609
25°	7371	7515	7539
30°	7192	7403	7463
35°	7014	7243	7274
40°	6774	7081	7075
45°	6528	6835	6903
50°	6282	6606	6694
55°	6017	6373	6411
60°	5763	6146	6102
65°	5461	5769	5656
70°	5032	5299	5058
75°	4450	4635	4047
80°	3579	3629	2828
85°	2343	2245	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.3	3.7
10°-20°	1561.6	10.3
20°-30°	2324.9	15.3
30°-40°	2736.5	18.0
40°-50°	2743.7	18.1
50°-60°	2406.0	15.9
60°-70°	1759.3	11.6
70°-80°	906.7	6.0
80°-90°	181.9	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°	4441.7	29.3
0°-40°	7178.2	47.3
0°-60°	12327.9	81.2
0°-90°	15175.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15175.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5908	5908	5908	5908	5908	
5°	5886	5847	5844	5882	5853	557
15°	5530	5540	5524	5559	5527	1556
25°	4965	4988	5062	5133	5078	2287
35°	4270	4290	4409	4458	4429	2660
45°	3431	3447	3592	3637	3628	2644
55°	2565	2623	2717	2756	2733	2302
65°	1715	1754	1812	1806	1777	1697
75°	856	862	892	830	778	907
85°	152	149	145	116	107	198
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5908.3	5908.3	5908.3	5908.3	5908.3
2.5°	5937.4	5908.3	5869.5	5901.8	5895.4
5°	5885.7	5846.9	5843.7	5882.4	5853.4
7.5°	5821.1	5814.6	5775.8	5817.8	5801.7
10°	5737.1	5730.6	5717.7	5746.8	5724.2
12.5°	5636.9	5630.5	5636.9	5653.1	5636.9
15°	5530.3	5540.0	5523.9	5559.4	5527.1
17.5°	5388.2	5397.9	5430.2	5443.1	5439.9
20°	5271.9	5278.4	5317.1	5368.8	5313.9
22.5°	5120.1	5136.2	5155.6	5249.3	5236.4
25°	4965.0	4987.6	5061.9	5133.0	5078.1
27.5°	4803.5	4826.1	4916.6	4968.3	4961.8
30°	4629.1	4651.7	4764.7	4835.8	4803.5
32.5°	4448.2	4486.9	4609.7	4671.1	4609.7
35°	4270.5	4289.9	4409.4	4457.9	4428.8
37.5°	4034.7	4109.0	4228.5	4260.8	4209.1
40°	3857.0	3860.2	4031.5	4031.5	4028.2
42.5°	3627.7	3679.3	3792.4	3853.8	3821.5
45°	3430.6	3446.8	3592.1	3637.4	3627.7
47.5°	3214.2	3278.8	3385.4	3437.1	3411.2
50°	3001.0	3046.2	3156.0	3223.9	3198.0
52.5°	2803.9	2839.5	2952.5	2991.3	2965.4
55°	2564.9	2623.0	2716.7	2755.5	2732.9
57.5°	2358.1	2400.1	2516.4	2529.4	2516.4
60°	2141.7	2190.2	2283.8	2293.5	2267.7
62.5°	1935.0	1967.3	2051.3	2054.5	2025.4
65°	1715.3	1754.1	1812.2	1805.8	1776.7
67.5°	1498.9	1524.7	1579.6	1557.0	1524.7
70°	1279.2	1301.8	1347.0	1314.7	1285.7
72.5°	1066.0	1082.2	1120.9	1072.5	1036.9
75°	856.0	862.5	891.6	830.2	778.5
77.5°	649.3	655.8	671.9	610.5	552.4
80°	461.9	461.9	468.4	403.8	365.0
82.5°	290.7	290.7	287.5	239.0	216.4
85°	151.8	148.6	145.4	116.3	106.6
87.5°	54.9	54.9	45.2	42.0	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)