

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: P487291

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-40-120-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: P487291
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-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

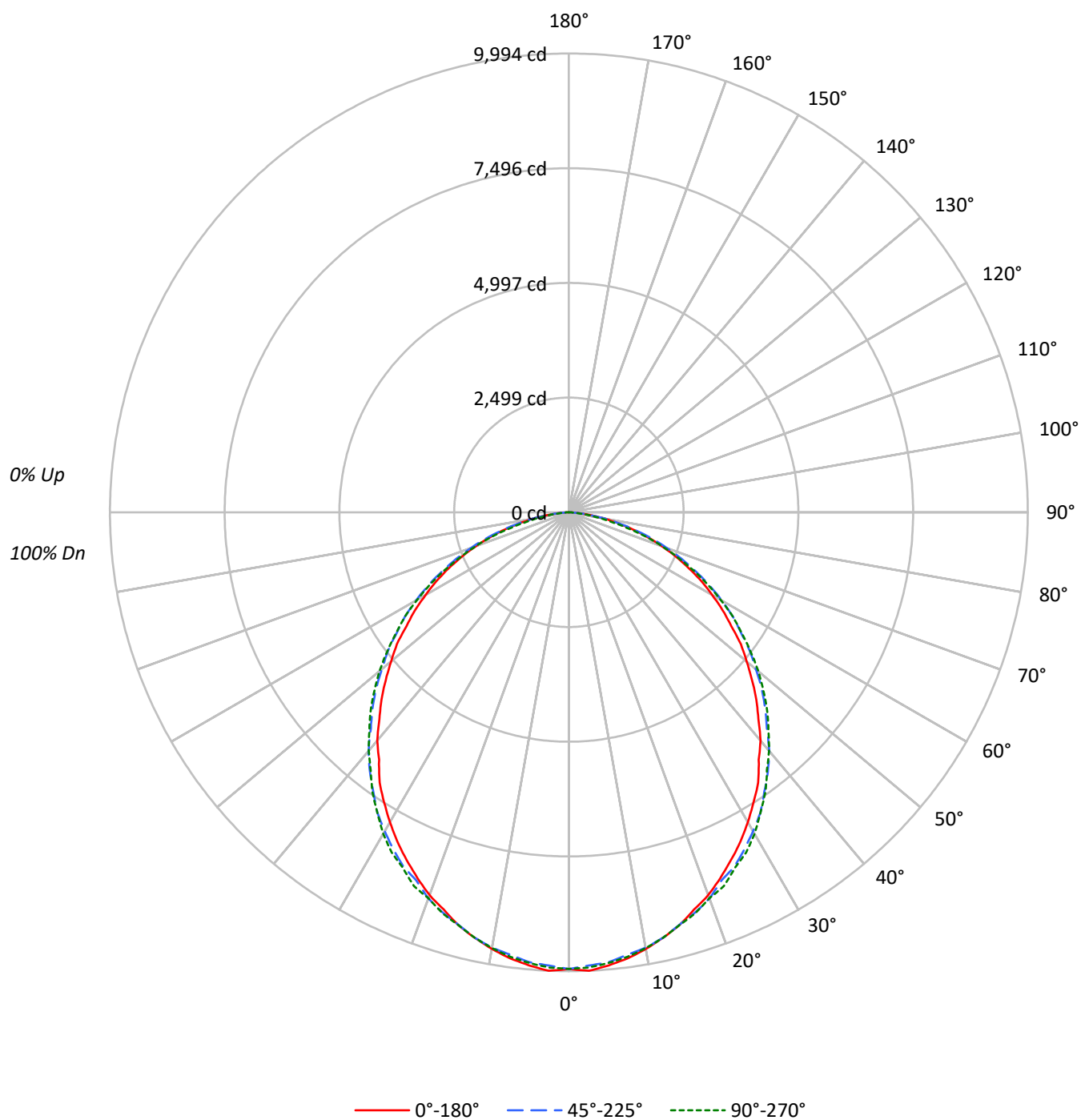
Lumens per Lamp: N/A
Luminaire Lumens: 25545.9 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					10
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°	13382	13382	13382
5°	13381	13286	13308
10°	13194	13150	13165
15°	12968	12952	12960
20°	12707	12816	12808
25°	12408	12650	12690
30°	12106	12461	12563
35°	11808	12192	12245
40°	11404	11920	11910
45°	10989	11506	11620
50°	10574	11121	11268
55°	10128	10728	10791
60°	9702	10345	10272
65°	9193	9712	9521
70°	8471	8920	8514
75°	7491	7802	6813
80°	6025	6110	4761
85°	3946	3778	2770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.8	3.7
10°-20°	2628.6	10.3
20°-30°	3913.5	15.3
30°-40°	4606.4	18.0
40°-50°	4618.5	18.1
50°-60°	4050.0	15.9
60°-70°	2961.5	11.6
70°-80°	1526.2	6.0
80°-90°	306.2	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°	7476.9	29.3
0°-40°	12083.4	47.3
0°-60°	20751.9	81.2
0°-90°	25545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25545.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9946	9946	9946	9946	9946	
5°	9908	9842	9837	9902	9853	938
15°	9309	9326	9298	9358	9304	2620
25°	8358	8396	8521	8640	8548	3850
35°	7189	7221	7422	7504	7455	4477
45°	5775	5802	6047	6123	6107	4450
55°	4318	4415	4573	4638	4600	3876
65°	2887	2953	3051	3040	2991	2856
75°	1441	1452	1501	1398	1310	1527
85°	256	250	245	196	179	333
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9945.6	9945.6	9945.6	9945.6	9945.6
2.5°	9994.5	9945.6	9880.3	9934.7	9923.8
5°	9907.5	9842.3	9836.8	9902.1	9853.2
7.5°	9798.8	9787.9	9722.6	9793.3	9766.1
10°	9657.4	9646.5	9624.8	9673.7	9635.6
12.5°	9488.8	9477.9	9488.8	9516.0	9488.8
15°	9309.4	9325.7	9298.5	9358.3	9303.9
17.5°	9070.1	9086.4	9140.8	9162.6	9157.1
20°	8874.4	8885.2	8950.5	9037.5	8945.1
22.5°	8618.8	8646.0	8678.6	8836.3	8814.5
25°	8357.8	8395.8	8520.9	8640.5	8548.1
27.5°	8085.9	8124.0	8276.2	8363.2	8352.3
30°	7792.3	7830.3	8020.6	8140.3	8085.9
32.5°	7487.7	7553.0	7759.6	7862.9	7759.6
35°	7188.7	7221.3	7422.5	7504.1	7455.1
37.5°	6791.7	6916.8	7118.0	7172.4	7085.4
40°	6492.6	6498.1	6786.3	6786.3	6780.8
42.5°	6106.6	6193.6	6383.9	6487.2	6432.8
45°	5774.9	5802.0	6046.7	6122.9	6106.6
47.5°	5410.5	5519.3	5698.7	5785.7	5742.2
50°	5051.6	5127.8	5312.7	5426.8	5383.3
52.5°	4719.9	4779.8	4970.1	5035.3	4991.8
55°	4317.6	4415.4	4573.1	4638.4	4600.3
57.5°	3969.5	4040.2	4236.0	4257.7	4236.0
60°	3605.2	3686.8	3844.5	3860.8	3817.3
62.5°	3257.2	3311.6	3453.0	3458.4	3409.5
65°	2887.4	2952.7	3050.6	3039.7	2990.7
67.5°	2523.1	2566.6	2659.0	2621.0	2566.6
70°	2153.3	2191.4	2267.5	2213.2	2164.2
72.5°	1794.4	1821.6	1886.9	1805.3	1745.5
75°	1441.0	1451.9	1500.8	1397.5	1310.5
77.5°	1093.0	1103.9	1131.0	1027.7	929.9
80°	777.6	777.6	788.5	679.7	614.5
82.5°	489.4	489.4	484.0	402.4	364.3
85°	255.6	250.1	244.7	195.8	179.4
87.5°	92.4	92.4	76.1	70.7	76.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)