

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: P487245

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-50-120-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: P487245
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-LD4-3STD-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

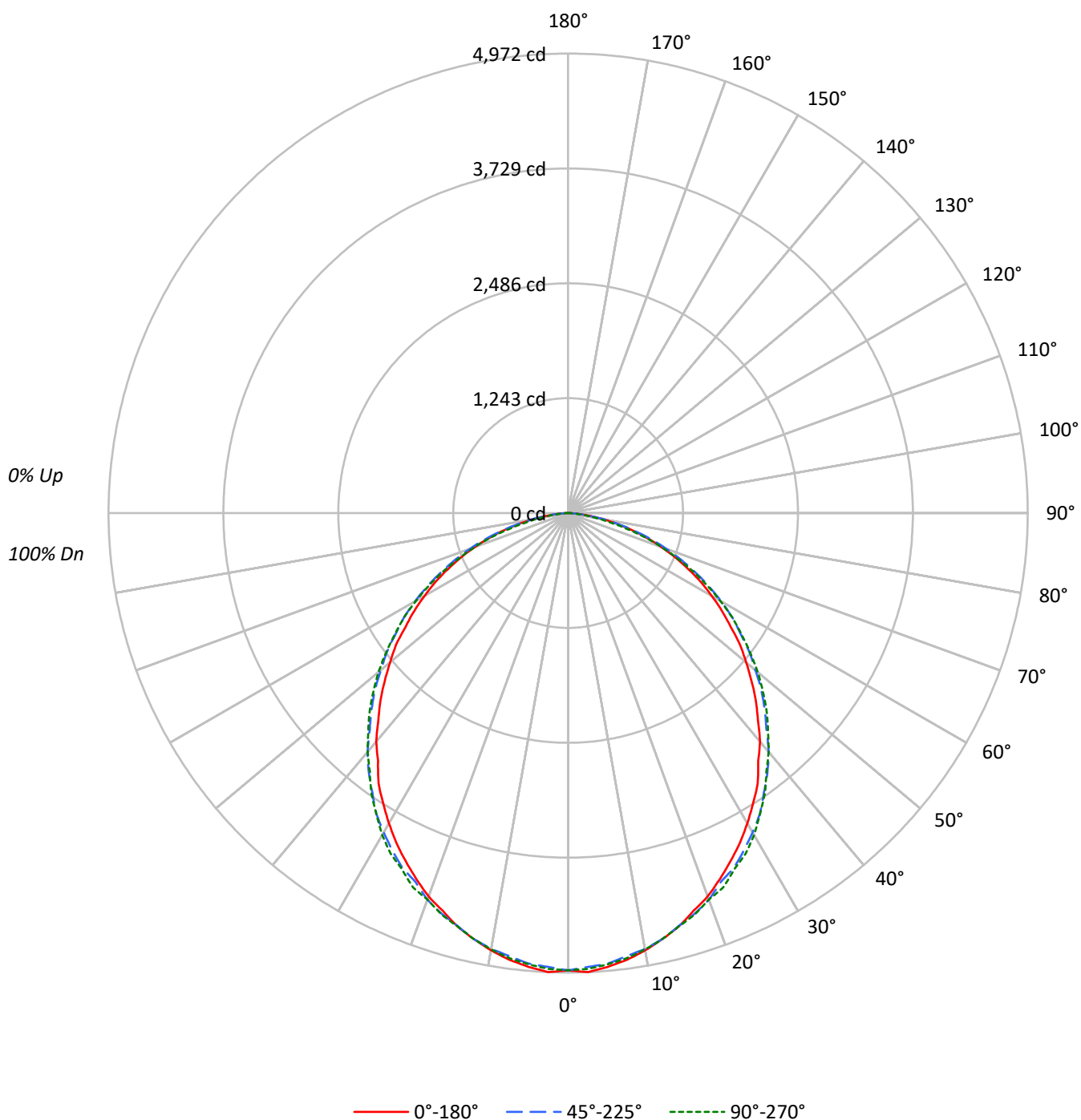
Lumens per Lamp: N/A
Luminaire Lumens: 12708.2 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6657	6657	6657
5°	6657	6609	6620
10°	6564	6542	6549
15°	6451	6443	6447
20°	6321	6375	6372
25°	6172	6293	6313
30°	6023	6199	6250
35°	5874	6065	6092
40°	5673	5929	5925
45°	5466	5724	5780
50°	5260	5532	5606
55°	5038	5337	5368
60°	4826	5146	5110
65°	4573	4831	4737
70°	4214	4437	4235
75°	3726	3881	3389
80°	2997	3039	2369
85°	1962	1879	1379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	3.7
10°-20°	1307.6	10.3
20°-30°	1946.8	15.3
30°-40°	2291.5	18.0
40°-50°	2297.6	18.1
50°-60°	2014.8	15.9
60°-70°	1473.2	11.6
70°-80°	759.3	6.0
80°-90°	152.3	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°	3719.5	29.3
0°-40°	6011.0	47.3
0°-60°	10323.4	81.2
0°-90°	12708.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12708.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4948	4948	4948	4948	4948	
5°	4929	4896	4894	4926	4902	467
15°	4631	4639	4626	4655	4628	1303
25°	4158	4177	4239	4298	4252	1915
35°	3576	3592	3692	3733	3709	2227
45°	2873	2886	3008	3046	3038	2214
55°	2148	2196	2275	2307	2288	1928
65°	1436	1469	1518	1512	1488	1421
75°	717	722	747	695	652	760
85°	127	124	122	97	89	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4947.6	4947.6	4947.6	4947.6	4947.6
2.5°	4971.9	4947.6	4915.1	4942.2	4936.8
5°	4928.7	4896.2	4893.5	4925.9	4901.6
7.5°	4874.6	4869.1	4836.7	4871.8	4858.3
10°	4804.2	4798.8	4788.0	4812.3	4793.4
12.5°	4720.4	4715.0	4720.4	4733.9	4720.4
15°	4631.1	4639.2	4625.7	4655.4	4628.4
17.5°	4512.1	4520.2	4547.2	4558.1	4555.4
20°	4414.7	4420.1	4452.6	4495.8	4449.9
22.5°	4287.5	4301.1	4317.3	4395.8	4384.9
25°	4157.7	4176.6	4238.9	4298.4	4252.4
27.5°	4022.5	4041.4	4117.1	4160.4	4155.0
30°	3876.4	3895.3	3990.0	4049.5	4022.5
32.5°	3724.9	3757.4	3860.1	3911.5	3860.1
35°	3576.1	3592.3	3692.4	3733.0	3708.7
37.5°	3378.6	3440.9	3540.9	3568.0	3524.7
40°	3229.9	3232.6	3375.9	3375.9	3373.2
42.5°	3037.8	3081.1	3175.8	3227.2	3200.1
45°	2872.8	2886.3	3008.0	3045.9	3037.8
47.5°	2691.6	2745.7	2834.9	2878.2	2856.6
50°	2513.0	2550.9	2642.9	2699.7	2678.0
52.5°	2348.0	2377.8	2472.4	2504.9	2483.3
55°	2147.8	2196.5	2275.0	2307.4	2288.5
57.5°	1974.7	2009.9	2107.3	2118.1	2107.3
60°	1793.5	1834.0	1912.5	1920.6	1899.0
62.5°	1620.3	1647.4	1717.7	1720.4	1696.1
65°	1436.4	1468.9	1517.5	1512.1	1487.8
67.5°	1255.2	1276.8	1322.8	1303.8	1276.8
70°	1071.2	1090.1	1128.0	1101.0	1076.6
72.5°	892.7	906.2	938.7	898.1	868.3
75°	716.8	722.3	746.6	695.2	651.9
77.5°	543.7	549.1	562.7	511.3	462.6
80°	386.8	386.8	392.2	338.1	305.7
82.5°	243.5	243.5	240.8	200.2	181.2
85°	127.1	124.4	121.7	97.4	89.3
87.5°	46.0	46.0	37.9	35.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)