

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: P486027

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-30-120-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: P486027
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-24-2-INS-A125-LD4-6HI-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

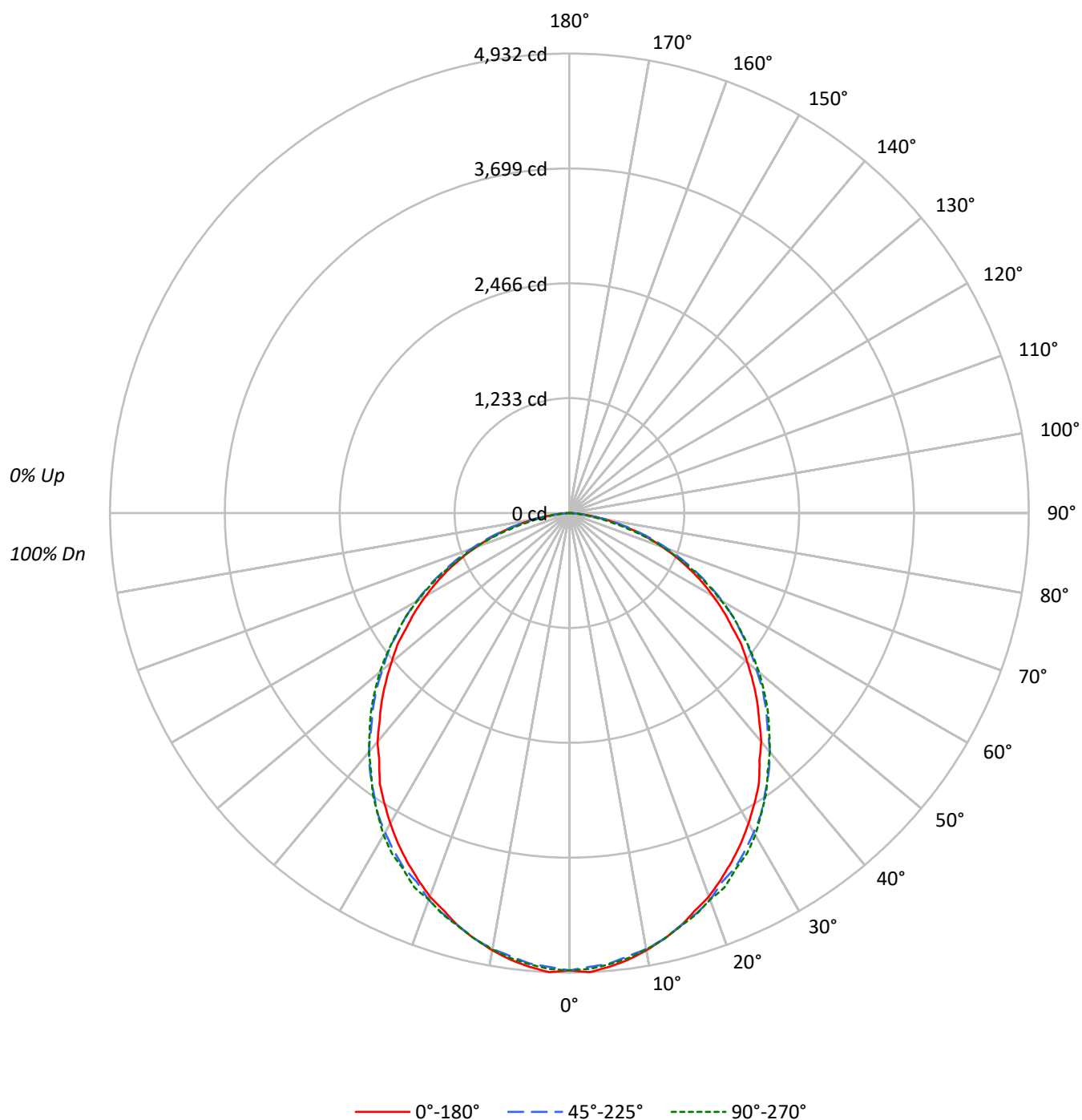
Lumens per Lamp: N/A
Luminaire Lumens: 12607.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	109	105	101	97	107	102	99	95		98	95	92			94	92	90			85
2	100	92	85	79	97	90	84	79		86	81	77			83	79	75			71
3	91	81	73	66	89	79	72	66		76	70	65			73	68	64			60
4	83	72	63	57	81	70	62	56		68	61	55			66	59	55			52
5	77	64	55	49	75	63	55	49		61	54	48			59	53	48			45
6	71	58	49	43	69	57	49	43		55	48	42			53	47	42			39
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			35
8	61	48	40	34	60	47	39	34		46	39	34			45	38	33			31
9	57	44	36	31	56	44	36	30		42	35	30			41	35	30			28
10	54	41	33	28	53	40	33	28		39	32	28			38	32	27			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13208	13208	13208
5°	13208	13114	13136
10°	13023	12979	12994
15°	12800	12785	12792
20°	12542	12650	12642
25°	12247	12486	12526
30°	11950	12300	12400
35°	11655	12034	12087
40°	11256	11765	11756
45°	10846	11357	11469
50°	10437	10976	11122
55°	9997	10588	10652
60°	9576	10211	10139
65°	9074	9586	9398
70°	8361	8805	8404
75°	7394	7701	6725
80°	5948	6030	4700
85°	3893	3730	2736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.4	3.7
10°-20°	1297.3	10.3
20°-30°	1931.4	15.3
30°-40°	2273.4	18.0
40°-50°	2279.4	18.1
50°-60°	1998.8	15.9
60°-70°	1461.6	11.6
70°-80°	753.2	6.0
80°-90°	151.1	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°	3690.0	29.3
0°-40°	5963.4	47.3
0°-60°	10241.6	81.2
0°-90°	12607.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12607.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4908	4908	4908	4908	4908	
5°	4890	4857	4855	4887	4863	463
15°	4594	4602	4589	4618	4592	1293
25°	4125	4144	4205	4264	4219	1900
35°	3548	3564	3663	3703	3679	2209
45°	2850	2863	2984	3022	3014	2196
55°	2131	2179	2257	2289	2270	1913
65°	1425	1457	1506	1500	1476	1410
75°	711	716	741	690	647	754
85°	126	123	121	97	89	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4908.4	4908.4	4908.4	4908.4	4908.4
2.5°	4932.5	4908.4	4876.2	4903.0	4897.6
5°	4889.6	4857.4	4854.7	4886.9	4862.8
7.5°	4835.9	4830.6	4798.4	4833.2	4819.8
10°	4766.1	4760.8	4750.0	4774.2	4755.4
12.5°	4683.0	4677.6	4683.0	4696.4	4683.0
15°	4594.4	4602.4	4589.0	4618.5	4591.7
17.5°	4476.3	4484.4	4511.2	4521.9	4519.3
20°	4379.7	4385.1	4417.3	4460.2	4414.6
22.5°	4253.6	4267.0	4283.1	4360.9	4350.2
25°	4124.8	4143.5	4205.3	4264.3	4218.7
27.5°	3990.6	4009.4	4084.5	4127.4	4122.1
30°	3845.7	3864.4	3958.4	4017.4	3990.6
32.5°	3695.4	3727.6	3829.6	3880.5	3829.6
35°	3547.8	3563.9	3663.2	3703.4	3679.3
37.5°	3351.9	3413.6	3512.9	3539.7	3496.8
40°	3204.3	3207.0	3349.2	3349.2	3346.5
42.5°	3013.7	3056.7	3150.6	3201.6	3174.7
45°	2850.0	2863.4	2984.2	3021.8	3013.7
47.5°	2670.2	2723.9	2812.5	2855.4	2833.9
50°	2493.1	2530.7	2621.9	2678.3	2656.8
52.5°	2329.4	2358.9	2452.8	2485.1	2463.6
55°	2130.8	2179.1	2256.9	2289.1	2270.4
57.5°	1959.1	1993.9	2090.6	2101.3	2090.6
60°	1779.3	1819.5	1897.3	1905.4	1883.9
62.5°	1607.5	1634.3	1704.1	1706.8	1682.6
65°	1425.0	1457.2	1505.5	1500.2	1476.0
67.5°	1245.2	1266.7	1312.3	1293.5	1266.7
70°	1062.7	1081.5	1119.1	1092.2	1068.1
72.5°	885.6	899.0	931.2	891.0	861.4
75°	711.2	716.5	740.7	689.7	646.8
77.5°	539.4	544.8	558.2	507.2	458.9
80°	383.8	383.8	389.1	335.5	303.3
82.5°	241.5	241.5	238.8	198.6	179.8
85°	126.1	123.4	120.8	96.6	88.6
87.5°	45.6	45.6	37.6	34.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)