

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: P485991

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-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: P485991
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-LD4-5HI-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

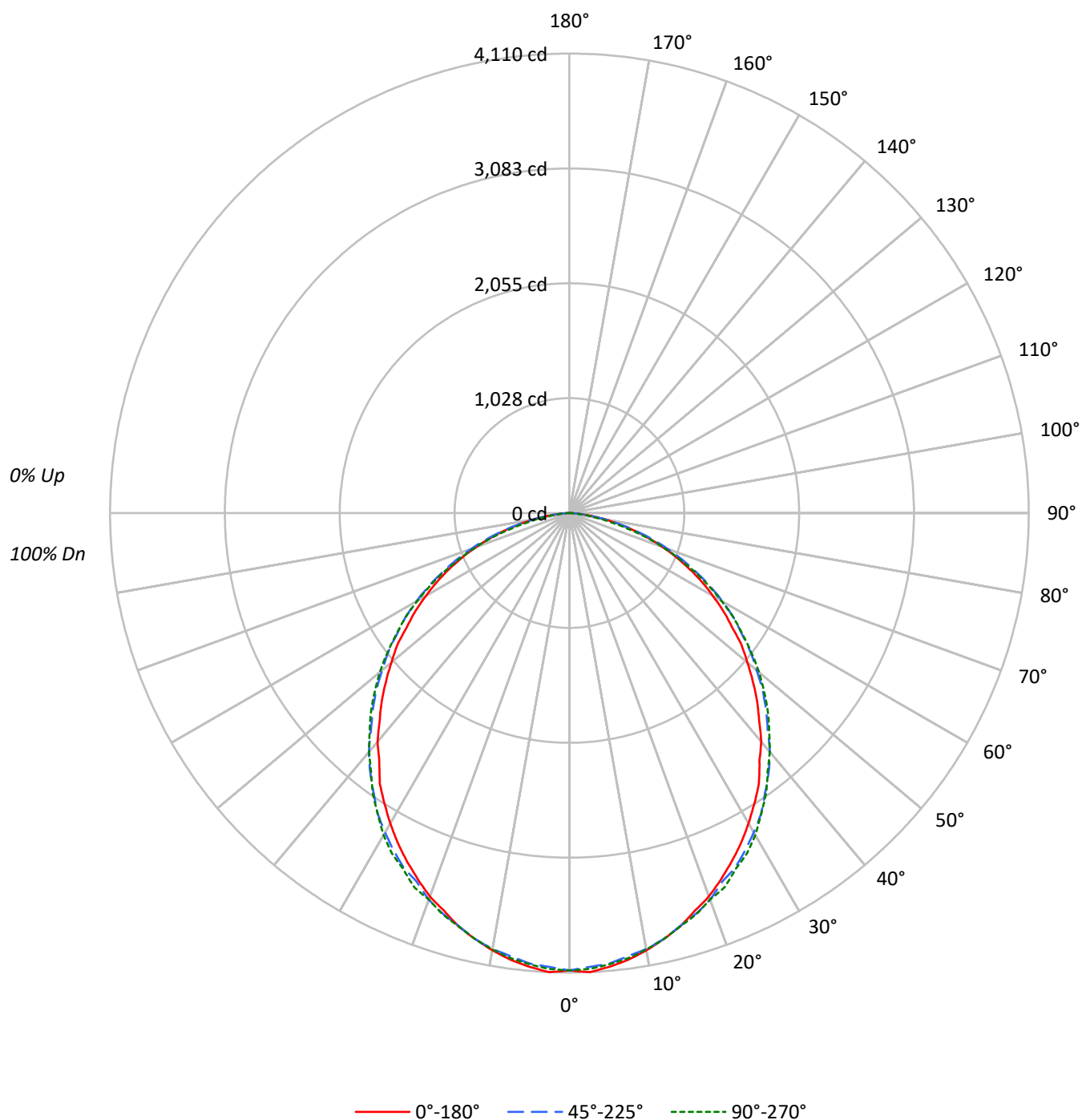
Lumens per Lamp: N/A
Luminaire Lumens: 10506.2 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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°	11007	11007	11007
5°	11007	10928	10946
10°	10853	10816	10828
15°	10666	10654	10660
20°	10452	10541	10535
25°	10206	10405	10438
30°	9958	10250	10333
35°	9712	10028	10072
40°	9380	9804	9796
45°	9038	9464	9557
50°	8698	9147	9269
55°	8331	8824	8876
60°	7980	8509	8449
65°	7561	7989	7832
70°	6968	7338	7003
75°	6161	6417	5604
80°	4956	5026	3916
85°	3245	3106	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	3.7
10°-20°	1081.1	10.3
20°-30°	1609.5	15.3
30°-40°	1894.5	18.0
40°-50°	1899.4	18.1
50°-60°	1665.7	15.9
60°-70°	1218.0	11.6
70°-80°	627.7	6.0
80°-90°	125.9	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°	3075.0	29.3
0°-40°	4969.5	47.3
0°-60°	8534.6	81.2
0°-90°	10506.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10506.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4090	4090	4090	4090	4090	
5°	4075	4048	4046	4072	4052	386
15°	3829	3835	3824	3849	3826	1077
25°	3437	3453	3504	3554	3516	1583
35°	2956	2970	3053	3086	3066	1841
45°	2375	2386	2487	2518	2511	1830
55°	1776	1816	1881	1908	1892	1594
65°	1188	1214	1255	1250	1230	1175
75°	593	597	617	575	539	628
85°	105	103	101	80	74	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4090.3	4090.3	4090.3	4090.3	4090.3
2.5°	4110.4	4090.3	4063.5	4085.8	4081.4
5°	4074.6	4047.8	4045.6	4072.4	4052.3
7.5°	4029.9	4025.4	3998.6	4027.7	4016.5
10°	3971.8	3967.3	3958.4	3978.5	3962.8
12.5°	3902.4	3898.0	3902.4	3913.6	3902.4
15°	3828.6	3835.4	3824.2	3848.8	3826.4
17.5°	3730.2	3737.0	3759.3	3768.3	3766.0
20°	3649.7	3654.2	3681.0	3716.8	3678.8
22.5°	3544.6	3555.8	3569.2	3634.1	3625.1
25°	3437.3	3452.9	3504.4	3553.6	3515.6
27.5°	3325.5	3341.1	3403.7	3439.5	3435.0
30°	3204.7	3220.4	3298.6	3347.8	3325.5
32.5°	3079.5	3106.3	3191.3	3233.8	3191.3
35°	2956.5	2969.9	3052.6	3086.2	3066.0
37.5°	2793.2	2844.6	2927.4	2949.8	2914.0
40°	2670.2	2672.4	2791.0	2791.0	2788.7
42.5°	2511.4	2547.2	2625.5	2668.0	2645.6
45°	2375.0	2386.2	2486.8	2518.1	2511.4
47.5°	2225.2	2269.9	2343.7	2379.5	2361.6
50°	2077.6	2108.9	2184.9	2231.9	2214.0
52.5°	1941.2	1965.8	2044.0	2070.9	2053.0
55°	1775.7	1815.9	1880.8	1907.6	1892.0
57.5°	1632.5	1661.6	1742.1	1751.1	1742.1
60°	1482.7	1516.3	1581.1	1587.8	1569.9
62.5°	1339.6	1361.9	1420.1	1422.3	1402.2
65°	1187.5	1214.3	1254.6	1250.1	1230.0
67.5°	1037.7	1055.6	1093.6	1077.9	1055.6
70°	885.6	901.3	932.6	910.2	890.1
72.5°	738.0	749.2	776.0	742.5	717.9
75°	592.6	597.1	617.2	574.7	539.0
77.5°	449.5	454.0	465.2	422.7	382.4
80°	319.8	319.8	324.3	279.5	252.7
82.5°	201.3	201.3	199.0	165.5	149.8
85°	105.1	102.9	100.6	80.5	73.8
87.5°	38.0	38.0	31.3	29.1	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)