

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: P485994

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-40-120-EDD-90**

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: P485994
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-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

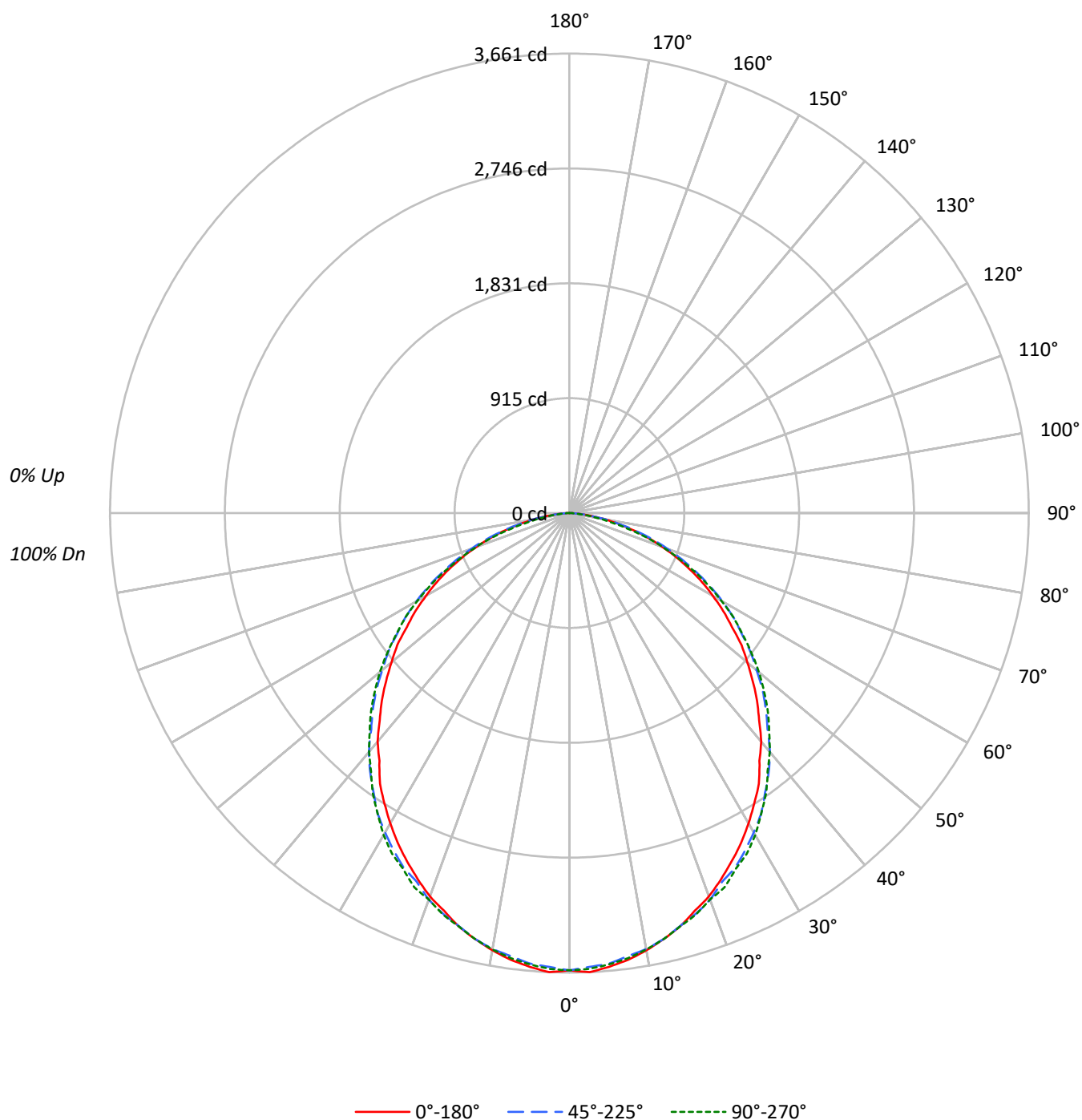
Lumens per Lamp: N/A
Luminaire Lumens: 9358.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9804	9804	9804
5°	9804	9734	9750
10°	9667	9634	9645
15°	9500	9489	9495
20°	9310	9389	9384
25°	9090	9268	9297
30°	8870	9129	9204
35°	8651	8932	8972
40°	8355	8733	8726
45°	8051	8429	8513
50°	7747	8147	8256
55°	7420	7859	7906
60°	7108	7579	7526
65°	6735	7116	6976
70°	6206	6535	6238
75°	5489	5716	4992
80°	4413	4475	3488
85°	2890	2766	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	3.7
10°-20°	962.9	10.3
20°-30°	1433.6	15.3
30°-40°	1687.4	18.0
40°-50°	1691.9	18.1
50°-60°	1483.6	15.9
60°-70°	1084.9	11.6
70°-80°	559.1	6.0
80°-90°	112.2	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°	2739.0	29.3
0°-40°	4426.4	47.3
0°-60°	7601.9	81.2
0°-90°	9358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3643	3643	3643	3643	3643	
5°	3629	3605	3603	3627	3609	344
15°	3410	3416	3406	3428	3408	960
25°	3062	3076	3121	3165	3131	1410
35°	2633	2645	2719	2749	2731	1640
45°	2116	2125	2215	2243	2237	1630
55°	1582	1618	1675	1699	1685	1420
65°	1058	1082	1118	1114	1096	1046
75°	528	532	550	512	480	559
85°	94	92	90	72	66	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3643.3	3643.3	3643.3	3643.3	3643.3
2.5°	3661.2	3643.3	3619.4	3639.3	3635.3
5°	3629.3	3605.4	3603.4	3627.3	3609.4
7.5°	3589.5	3585.5	3561.6	3587.5	3577.5
10°	3537.7	3533.7	3525.8	3543.7	3529.7
12.5°	3476.0	3472.0	3476.0	3485.9	3476.0
15°	3410.2	3416.2	3406.2	3428.1	3408.2
17.5°	3322.6	3328.6	3348.5	3356.4	3354.4
20°	3250.9	3254.8	3278.8	3310.6	3276.8
22.5°	3157.2	3167.2	3179.2	3236.9	3229.0
25°	3061.6	3075.6	3121.4	3165.2	3131.3
27.5°	2962.0	2976.0	3031.8	3063.6	3059.6
30°	2854.5	2868.4	2938.1	2982.0	2962.0
32.5°	2742.9	2766.8	2842.5	2880.4	2842.5
35°	2633.4	2645.3	2719.0	2748.9	2731.0
37.5°	2487.9	2533.8	2607.5	2627.4	2595.5
40°	2378.4	2380.4	2486.0	2486.0	2484.0
42.5°	2237.0	2268.8	2338.6	2376.4	2356.5
45°	2115.5	2125.4	2215.0	2242.9	2237.0
47.5°	1982.0	2021.8	2087.6	2119.4	2103.5
50°	1850.5	1878.4	1946.1	1988.0	1972.0
52.5°	1729.0	1750.9	1820.6	1844.5	1828.6
55°	1581.6	1617.5	1675.2	1699.1	1685.2
57.5°	1454.1	1480.0	1551.7	1559.7	1551.7
60°	1320.7	1350.5	1408.3	1414.3	1398.3
62.5°	1193.2	1213.1	1264.9	1266.9	1249.0
65°	1057.7	1081.6	1117.5	1113.5	1095.6
67.5°	924.3	940.2	974.1	960.1	940.2
70°	788.8	802.8	830.6	810.7	792.8
72.5°	657.3	667.3	691.2	661.3	639.4
75°	527.9	531.9	549.8	511.9	480.1
77.5°	400.4	404.4	414.3	376.5	340.6
80°	284.8	284.8	288.8	249.0	225.1
82.5°	179.3	179.3	177.3	147.4	133.5
85°	93.6	91.6	89.6	71.7	65.7
87.5°	33.9	33.9	27.9	25.9	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)