

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: P486050

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-30-120-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: P486050
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-LD4-6STD-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

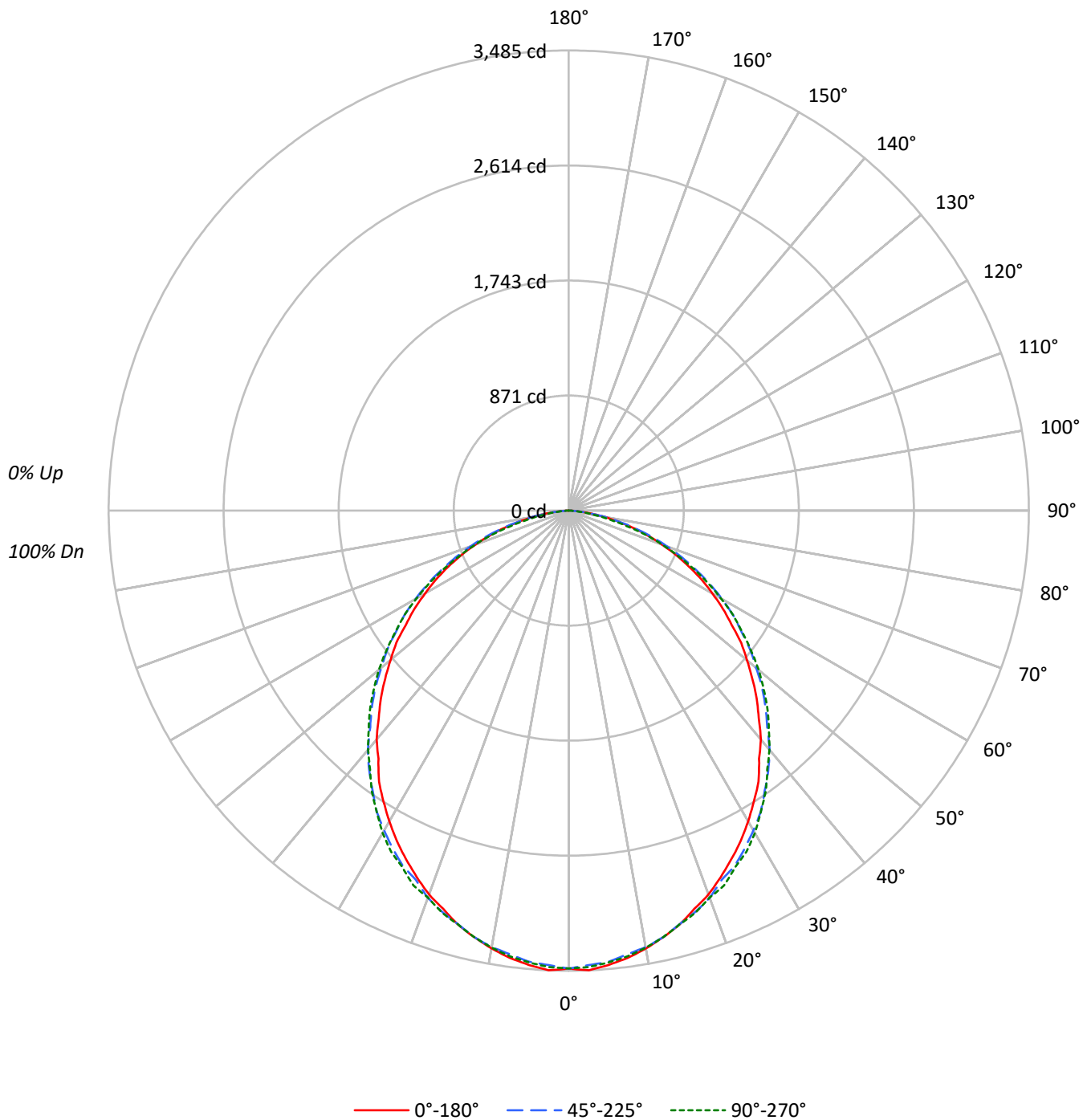
Lumens per Lamp: N/A
Luminaire Lumens: 8908.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9333	9333	9333
5°	9332	9266	9281
10°	9202	9171	9181
15°	9044	9033	9038
20°	8862	8938	8932
25°	8653	8822	8850
30°	8443	8690	8761
35°	8235	8503	8540
40°	7953	8313	8306
45°	7663	8024	8104
50°	7374	7756	7859
55°	7064	7482	7526
60°	6766	7215	7164
65°	6411	6773	6641
70°	5908	6221	5938
75°	5225	5441	4751
80°	4203	4260	3321
85°	2751	2634	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	3.7
10°-20°	916.6	10.3
20°-30°	1364.7	15.3
30°-40°	1606.3	18.0
40°-50°	1610.5	18.1
50°-60°	1412.3	15.9
60°-70°	1032.7	11.6
70°-80°	532.2	6.0
80°-90°	106.8	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°	2607.2	29.3
0°-40°	4213.5	47.3
0°-60°	7236.3	81.2
0°-90°	8908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3468	3468	3468	3468	3468	
5°	3455	3432	3430	3453	3436	327
15°	3246	3252	3242	3263	3244	914
25°	2914	2928	2971	3013	2981	1342
35°	2507	2518	2588	2617	2600	1561
45°	2014	2023	2108	2135	2129	1552
55°	1506	1540	1595	1617	1604	1351
65°	1007	1030	1064	1060	1043	996
75°	502	506	523	487	457	532
85°	89	87	85	68	63	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3468.1	3468.1	3468.1	3468.1	3468.1
2.5°	3485.1	3468.1	3445.3	3464.3	3460.5
5°	3454.8	3432.1	3430.2	3452.9	3435.8
7.5°	3416.9	3413.1	3390.3	3415.0	3405.5
10°	3367.6	3363.8	3356.2	3373.3	3360.0
12.5°	3308.8	3305.0	3308.8	3318.3	3308.8
15°	3246.2	3251.9	3242.4	3263.3	3244.3
17.5°	3162.8	3168.5	3187.5	3195.0	3193.1
20°	3094.5	3098.3	3121.1	3151.4	3119.2
22.5°	3005.4	3014.9	3026.3	3081.3	3073.7
25°	2914.4	2927.7	2971.3	3013.0	2980.8
27.5°	2819.6	2832.9	2886.0	2916.3	2912.5
30°	2717.2	2730.5	2796.8	2838.6	2819.6
32.5°	2611.0	2633.8	2705.8	2741.9	2705.8
35°	2506.7	2518.1	2588.3	2616.7	2599.6
37.5°	2368.3	2411.9	2482.1	2501.0	2470.7
40°	2264.0	2265.9	2366.4	2366.4	2364.5
42.5°	2129.4	2159.7	2226.1	2262.1	2243.2
45°	2013.7	2023.2	2108.5	2135.1	2129.4
47.5°	1886.7	1924.6	1987.2	2017.5	2002.3
50°	1761.5	1788.1	1852.6	1892.4	1877.2
52.5°	1645.9	1666.7	1733.1	1755.8	1740.7
55°	1505.6	1539.7	1594.7	1617.4	1604.2
57.5°	1384.2	1408.8	1477.1	1484.7	1477.1
60°	1257.2	1285.6	1340.6	1346.3	1331.1
62.5°	1135.8	1154.8	1204.1	1206.0	1188.9
65°	1006.9	1029.6	1063.7	1060.0	1042.9
67.5°	879.8	895.0	927.2	914.0	895.0
70°	750.9	764.2	790.7	771.7	754.7
72.5°	625.7	635.2	658.0	629.5	608.7
75°	502.5	506.3	523.3	487.3	457.0
77.5°	381.1	384.9	394.4	358.4	324.2
80°	271.2	271.2	274.9	237.0	214.3
82.5°	170.7	170.7	168.8	140.3	127.0
85°	89.1	87.2	85.3	68.3	62.6
87.5°	32.2	32.2	26.5	24.7	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)