

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: P486057

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-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: P486057
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-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

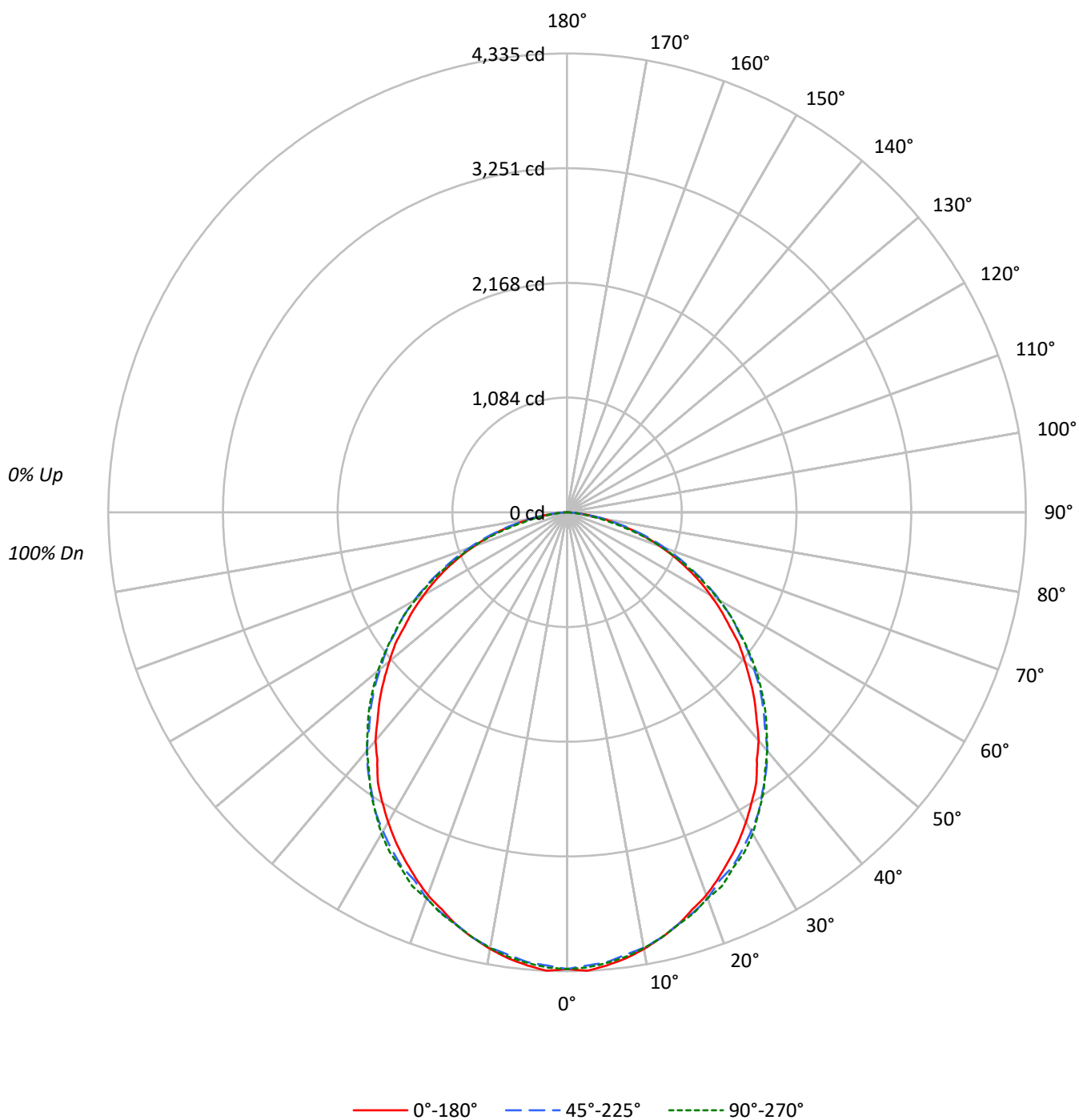
Lumens per Lamp: N/A
Luminaire Lumens: 11081.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P486057

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P486057

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-50-120-EDD

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°	11609	11609	11609
5°	11609	11526	11545
10°	11447	11408	11421
15°	11250	11237	11243
20°	11023	11118	11111
25°	10764	10974	11009
30°	10503	10811	10898
35°	10244	10577	10623
40°	9893	10341	10332
45°	9533	9982	10080
50°	9173	9648	9776
55°	8786	9307	9362
60°	8416	8975	8911
65°	7975	8425	8260
70°	7349	7739	7386
75°	6499	6769	5910
80°	5227	5300	4130
85°	3424	3276	2402



TEST NUMBER: P486057

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	3.7
10°-20°	1140.2	10.3
20°-30°	1697.5	15.3
30°-40°	1998.1	18.0
40°-50°	2003.4	18.1
50°-60°	1756.8	15.9
60°-70°	1284.6	11.6
70°-80°	662.0	6.0
80°-90°	132.8	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°	3243.3	29.3
0°-40°	5241.4	47.3
0°-60°	9001.5	81.2
0°-90°	11081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4314	4314	4314	4314	4314	
5°	4298	4269	4267	4295	4274	407
15°	4038	4045	4033	4059	4036	1136
25°	3625	3642	3696	3748	3708	1670
35°	3118	3132	3220	3255	3234	1942
45°	2505	2517	2623	2656	2649	1930
55°	1873	1915	1984	2012	1996	1681
65°	1252	1281	1323	1318	1297	1239
75°	625	630	651	606	568	662
85°	111	108	106	85	78	145
90°	0	0	0	0	0	



TEST NUMBER: P486057

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4335.3	4314.1	4285.8	4309.4	4304.6
5°	4297.6	4269.3	4266.9	4295.2	4274.0
7.5°	4250.4	4245.7	4217.4	4248.0	4236.2
10°	4189.1	4184.4	4174.9	4196.1	4179.6
12.5°	4116.0	4111.2	4116.0	4127.7	4116.0
15°	4038.1	4045.2	4033.4	4059.3	4035.8
17.5°	3934.3	3941.4	3965.0	3974.4	3972.1
20°	3849.4	3854.1	3882.4	3920.2	3880.1
22.5°	3738.6	3750.3	3764.5	3832.9	3823.5
25°	3625.3	3641.8	3696.1	3748.0	3707.9
27.5°	3507.4	3523.9	3590.0	3627.7	3623.0
30°	3380.0	3396.5	3479.1	3531.0	3507.4
32.5°	3247.9	3276.2	3365.9	3410.7	3365.9
35°	3118.2	3132.4	3219.6	3255.0	3233.8
37.5°	2946.0	3000.3	3087.6	3111.1	3073.4
40°	2816.3	2818.7	2943.7	2943.7	2941.3
42.5°	2648.8	2686.6	2769.1	2813.9	2790.4
45°	2505.0	2516.7	2622.9	2655.9	2648.8
47.5°	2346.9	2394.1	2471.9	2509.7	2490.8
50°	2191.2	2224.3	2304.5	2354.0	2335.1
52.5°	2047.4	2073.3	2155.9	2184.2	2165.3
55°	1872.8	1915.3	1983.7	2012.0	1995.5
57.5°	1721.9	1752.5	1837.4	1846.9	1837.4
60°	1563.8	1599.2	1667.6	1674.7	1655.8
62.5°	1412.9	1436.5	1497.8	1500.1	1478.9
65°	1252.5	1280.8	1323.2	1318.5	1297.3
67.5°	1094.4	1113.3	1153.4	1136.9	1113.3
70°	934.0	950.6	983.6	960.0	938.8
72.5°	778.4	790.2	818.5	783.1	757.1
75°	625.1	629.8	651.0	606.2	568.4
77.5°	474.1	478.8	490.6	445.8	403.3
80°	337.3	337.3	342.0	294.8	266.5
82.5°	212.3	212.3	209.9	174.5	158.0
85°	110.9	108.5	106.1	84.9	77.8
87.5°	40.1	40.1	33.0	30.7	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)