

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: P486000

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-27-120-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: P486000
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-LD4-5LO-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

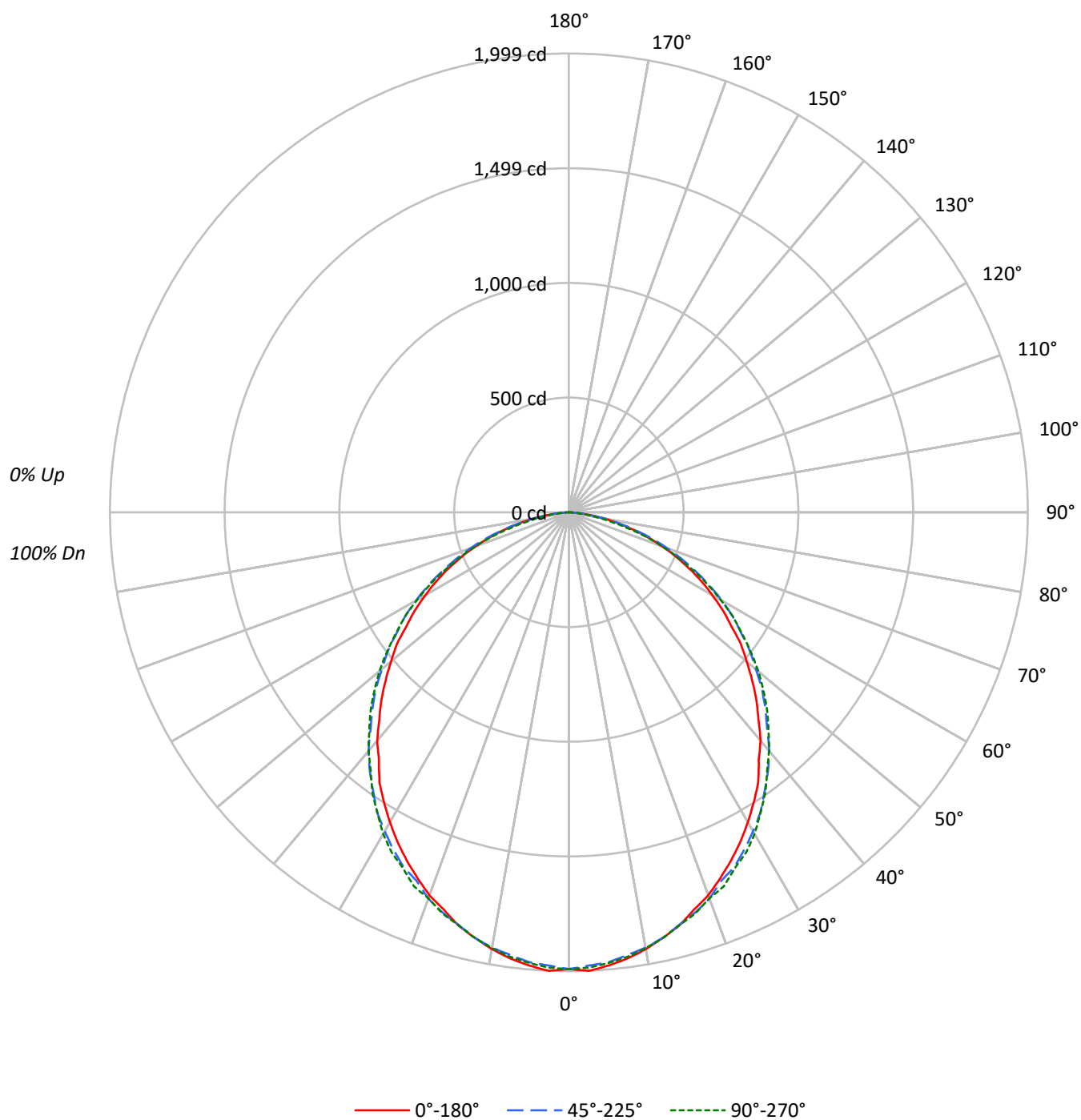
Lumens per Lamp: N/A
Luminaire Lumens: 5110.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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: P486000

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P486000

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-27-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5354	5354	5354
5°	5354	5316	5324
10°	5279	5261	5267
15°	5188	5182	5185
20°	5084	5127	5124
25°	4964	5061	5077
30°	4844	4986	5026
35°	4724	4878	4899
40°	4562	4769	4765
45°	4396	4603	4649
50°	4231	4449	4508
55°	4052	4292	4318
60°	3881	4139	4110
65°	3678	3885	3810
70°	3389	3569	3406
75°	2997	3121	2726
80°	2411	2444	1905
85°	1578	1513	1108



TEST NUMBER: P486000

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	3.7
10°-20°	525.8	10.3
20°-30°	782.9	15.3
30°-40°	921.5	18.0
40°-50°	923.9	18.1
50°-60°	810.2	15.9
60°-70°	592.4	11.6
70°-80°	305.3	6.0
80°-90°	61.3	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°	1495.7	29.3
0°-40°	2417.2	47.3
0°-60°	4151.3	81.2
0°-90°	5110.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5110.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1990	1990	1990	1990	1990	
5°	1982	1969	1968	1981	1971	188
15°	1862	1866	1860	1872	1861	524
25°	1672	1680	1705	1728	1710	770
35°	1438	1445	1485	1501	1491	896
45°	1155	1161	1210	1225	1222	890
55°	864	883	915	928	920	775
65°	578	591	610	608	598	571
75°	288	290	300	280	262	305
85°	51	50	49	39	36	67
90°	0	0	0	0	0	



TEST NUMBER: P486000

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.6	1989.6	1989.6	1989.6	1989.6
2.5°	1999.3	1989.6	1976.5	1987.4	1985.2
5°	1981.9	1968.9	1967.8	1980.9	1971.1
7.5°	1960.2	1958.0	1945.0	1959.1	1953.7
10°	1931.9	1929.7	1925.4	1935.2	1927.6
12.5°	1898.2	1896.0	1898.2	1903.6	1898.2
15°	1862.3	1865.5	1860.1	1872.1	1861.2
17.5°	1814.4	1817.7	1828.6	1832.9	1831.8
20°	1775.3	1777.4	1790.5	1807.9	1789.4
22.5°	1724.1	1729.6	1736.1	1767.6	1763.3
25°	1671.9	1679.5	1704.6	1728.5	1710.0
27.5°	1617.5	1625.1	1655.6	1673.0	1670.8
30°	1558.8	1566.4	1604.5	1628.4	1617.5
32.5°	1497.9	1510.9	1552.3	1572.9	1552.3
35°	1438.0	1444.6	1484.8	1501.1	1491.3
37.5°	1358.6	1383.7	1423.9	1434.8	1417.4
40°	1298.8	1299.9	1357.6	1357.6	1356.5
42.5°	1221.6	1239.0	1277.1	1297.7	1286.8
45°	1155.2	1160.7	1209.6	1224.8	1221.6
47.5°	1082.3	1104.1	1140.0	1157.4	1148.7
50°	1010.6	1025.8	1062.8	1085.6	1076.9
52.5°	944.2	956.2	994.2	1007.3	998.6
55°	863.7	883.3	914.8	927.9	920.3
57.5°	794.1	808.2	847.4	851.7	847.4
60°	721.2	737.5	769.1	772.3	763.6
62.5°	651.6	662.5	690.7	691.8	682.0
65°	577.6	590.7	610.2	608.1	598.3
67.5°	504.7	513.4	531.9	524.3	513.4
70°	430.8	438.4	453.6	442.7	432.9
72.5°	359.0	364.4	377.5	361.1	349.2
75°	288.3	290.4	300.2	279.6	262.2
77.5°	218.6	220.8	226.3	205.6	186.0
80°	155.6	155.6	157.7	136.0	122.9
82.5°	97.9	97.9	96.8	80.5	72.9
85°	51.1	50.0	49.0	39.2	35.9
87.5°	18.5	18.5	15.2	14.1	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)