

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: P485999

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-20-120-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: P485999
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-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

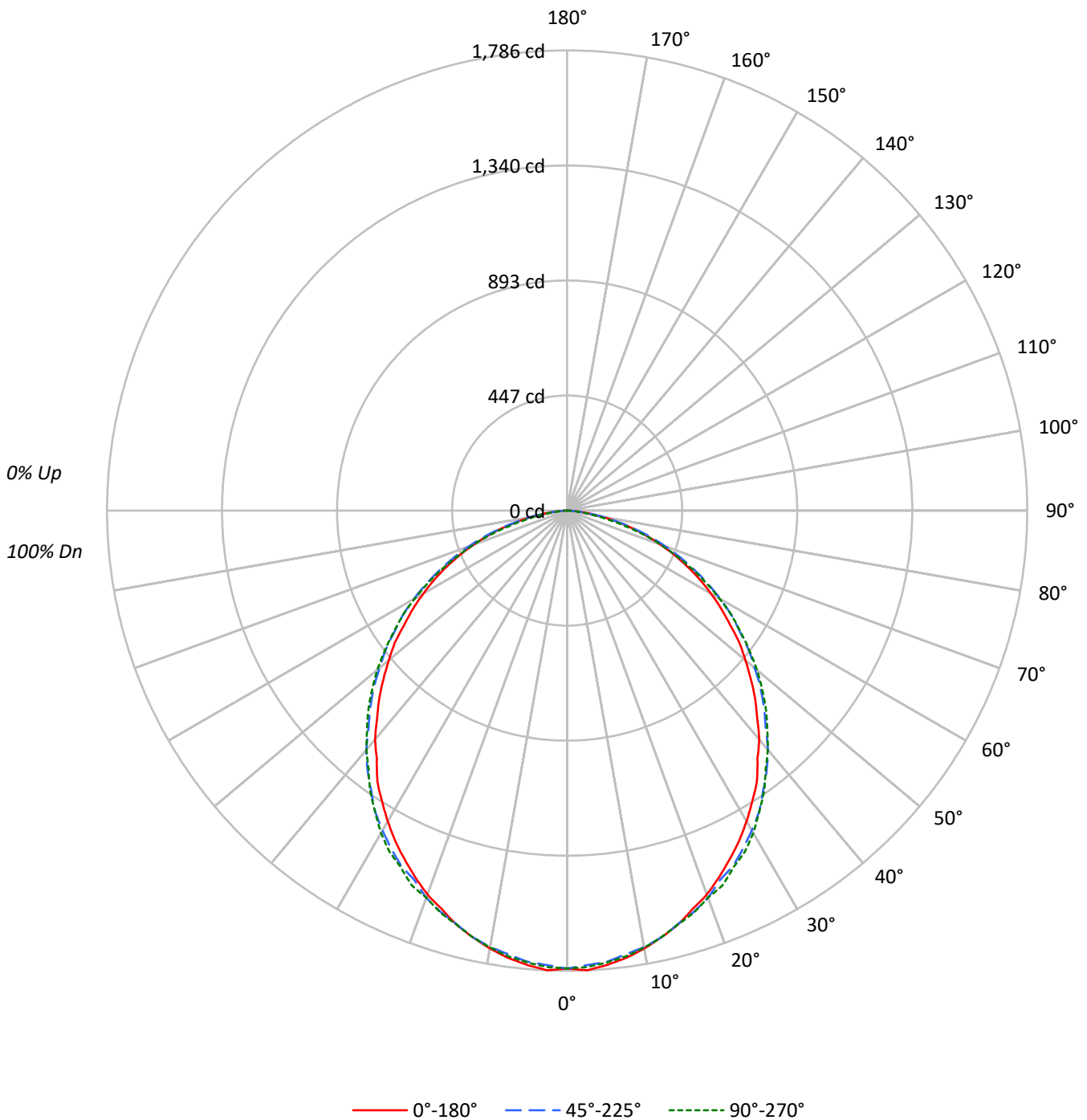
Lumens per Lamp: N/A
Luminaire Lumens: 4565.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P485999

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-20-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485999

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-20-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4783	4783	4783
5°	4783	4748	4756
10°	4716	4700	4705
15°	4635	4629	4632
20°	4541	4580	4578
25°	4434	4521	4535
30°	4327	4454	4490
35°	4220	4357	4376
40°	4076	4260	4256
45°	3927	4112	4153
50°	3779	3975	4027
55°	3620	3834	3857
60°	3467	3697	3671
65°	3286	3471	3403
70°	3028	3188	3043
75°	2677	2789	2435
80°	2154	2183	1702
85°	1411	1349	991



TEST NUMBER: P485999

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.7
10°-20°	469.7	10.3
20°-30°	699.3	15.3
30°-40°	823.2	18.0
40°-50°	825.3	18.1
50°-60°	723.7	15.9
60°-70°	529.2	11.6
70°-80°	272.7	6.0
80°-90°	54.7	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°	1336.1	29.3
0°-40°	2159.3	47.3
0°-60°	3708.3	81.2
0°-90°	4565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1770	1759	1758	1770	1761	168
15°	1664	1666	1662	1672	1663	468
25°	1494	1500	1523	1544	1528	688
35°	1285	1290	1326	1341	1332	800
45°	1032	1037	1080	1094	1091	795
55°	772	789	817	829	822	693
65°	516	528	545	543	534	510
75°	258	259	268	250	234	273
85°	46	45	44	35	32	60
90°	0	0	0	0	0	



TEST NUMBER: P485999

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5LO-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.3	1777.3	1777.3	1777.3	1777.3
2.5°	1786.0	1777.3	1765.6	1775.3	1773.4
5°	1770.5	1758.8	1757.8	1769.5	1760.7
7.5°	1751.0	1749.1	1737.4	1750.0	1745.2
10°	1725.8	1723.8	1719.9	1728.7	1721.9
12.5°	1695.6	1693.7	1695.6	1700.5	1695.6
15°	1663.6	1666.5	1661.6	1672.3	1662.6
17.5°	1620.8	1623.7	1633.4	1637.3	1636.4
20°	1585.8	1587.8	1599.4	1615.0	1598.5
22.5°	1540.2	1545.0	1550.8	1579.0	1575.1
25°	1493.5	1500.3	1522.7	1544.0	1527.5
27.5°	1444.9	1451.7	1478.9	1494.5	1492.5
30°	1392.5	1399.3	1433.3	1454.6	1444.9
32.5°	1338.0	1349.7	1386.6	1405.1	1386.6
35°	1284.6	1290.4	1326.4	1341.0	1332.2
37.5°	1213.7	1236.0	1272.0	1281.7	1266.1
40°	1160.2	1161.2	1212.7	1212.7	1211.7
42.5°	1091.2	1106.8	1140.8	1159.2	1149.5
45°	1032.0	1036.8	1080.5	1094.1	1091.2
47.5°	966.9	986.3	1018.4	1033.9	1026.1
50°	902.7	916.3	949.4	969.8	962.0
52.5°	843.4	854.1	888.1	899.8	892.0
55°	771.5	789.0	817.2	828.9	822.1
57.5°	709.3	722.0	757.0	760.8	757.0
60°	644.2	658.8	687.0	689.9	682.1
62.5°	582.1	591.8	617.0	618.0	609.3
65°	516.0	527.6	545.1	543.2	534.4
67.5°	450.9	458.6	475.2	468.4	458.6
70°	384.8	391.6	405.2	395.5	386.7
72.5°	320.7	325.5	337.2	322.6	311.9
75°	257.5	259.4	268.2	249.7	234.2
77.5°	195.3	197.3	202.1	183.7	166.2
80°	139.0	139.0	140.9	121.5	109.8
82.5°	87.5	87.5	86.5	71.9	65.1
85°	45.7	44.7	43.7	35.0	32.1
87.5°	16.5	16.5	13.6	12.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)