

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: P485094

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1HI-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: P485094  
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-12-4-INS-A125-LD4-1HI-40-120-EDD-90  
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

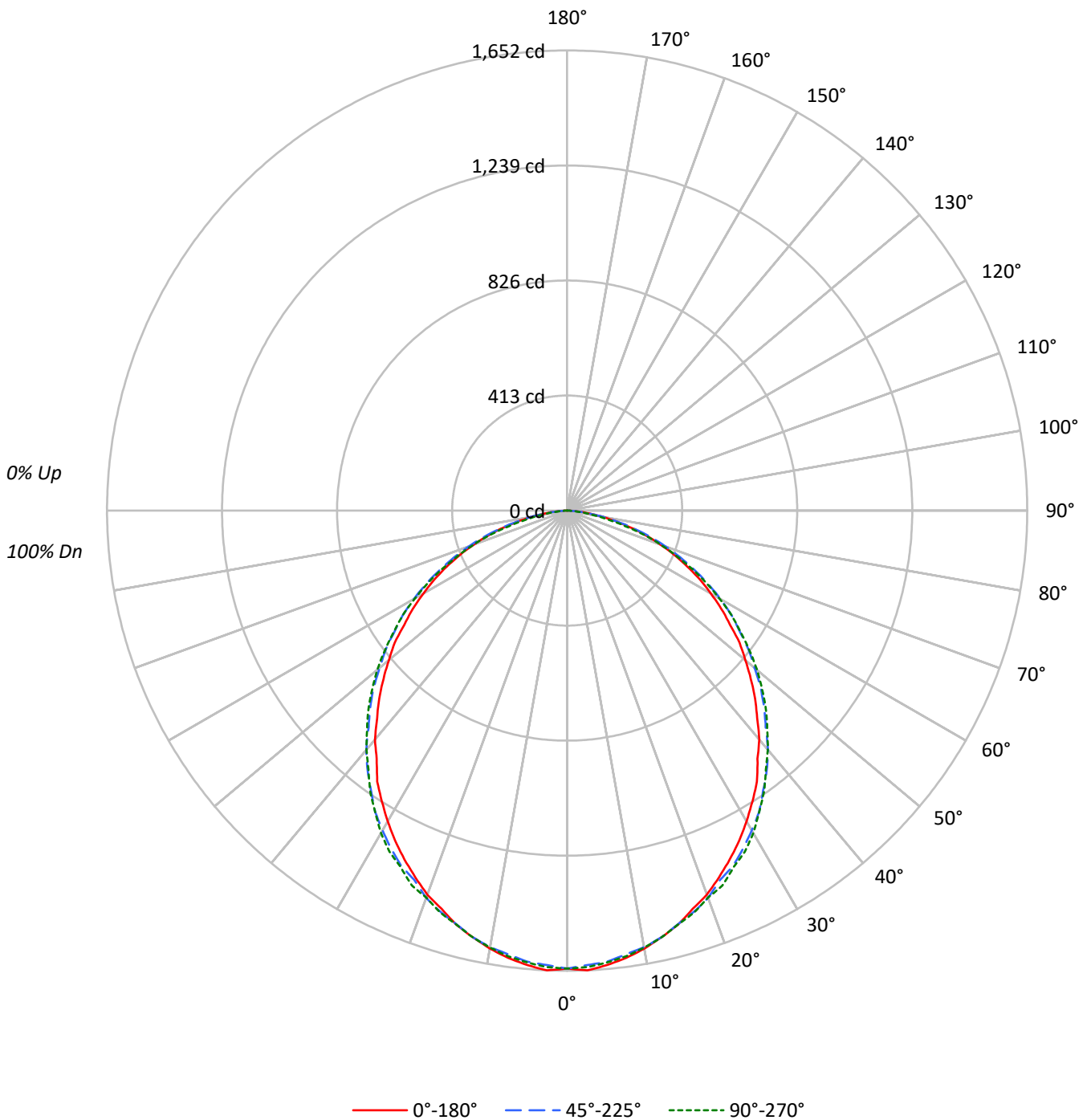
Lumens per Lamp: N/A  
Luminaire Lumens: 4223.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P485094

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1HI-40-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P485094

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1HI-40-120-EDD-90

**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°	4424	4424	4424
5°	4424	4393	4400
10°	4362	4348	4353
15°	4287	4282	4285
20°	4201	4237	4235
25°	4102	4182	4196
30°	4002	4120	4153
35°	3904	4031	4049
40°	3770	3941	3938
45°	3633	3804	3842
50°	3496	3677	3725
55°	3348	3547	3568
60°	3208	3420	3396
65°	3039	3211	3148
70°	2801	2949	2815
75°	2477	2580	2252
80°	1991	2019	1574
85°	1303	1250	917



TEST NUMBER: P485094

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1HI-40-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	3.7
10°-20°	434.5	10.3
20°-30°	646.9	15.3
30°-40°	761.5	18.0
40°-50°	763.5	18.1
50°-60°	669.5	15.9
60°-70°	489.6	11.6
70°-80°	252.3	6.0
80°-90°	50.6	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°	1236.0	29.3
0°-40°	1997.5	47.3
0°-60°	3430.5	81.2
0°-90°	4223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1638	1627	1626	1637	1629	155
15°	1539	1542	1537	1547	1538	433
25°	1382	1388	1409	1428	1413	636
35°	1188	1194	1227	1240	1232	740
45°	955	959	1000	1012	1010	736
55°	714	730	756	767	760	641
65°	477	488	504	502	494	472
75°	238	240	248	231	217	252
85°	42	41	40	32	30	55
90°	0	0	0	0	0	



TEST NUMBER: P485094

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1HI-40-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1652.2	1644.1	1633.3	1642.3	1640.5
5°	1637.8	1627.0	1626.1	1636.9	1628.8
7.5°	1619.8	1618.0	1607.3	1618.9	1614.4
10°	1596.5	1594.7	1591.1	1599.2	1592.9
12.5°	1568.6	1566.8	1568.6	1573.1	1568.6
15°	1538.9	1541.6	1537.1	1547.0	1538.0
17.5°	1499.4	1502.1	1511.1	1514.7	1513.8
20°	1467.0	1468.8	1479.6	1494.0	1478.7
22.5°	1424.8	1429.3	1434.7	1460.7	1457.1
25°	1381.6	1387.9	1408.6	1428.4	1413.1
27.5°	1336.7	1343.0	1368.1	1382.5	1380.7
30°	1288.1	1294.4	1325.9	1345.7	1336.7
32.5°	1237.8	1248.6	1282.7	1299.8	1282.7
35°	1188.4	1193.8	1227.0	1240.5	1232.4
37.5°	1122.7	1143.4	1176.7	1185.7	1171.3
40°	1073.3	1074.2	1121.8	1121.8	1120.9
42.5°	1009.5	1023.9	1055.3	1072.4	1063.4
45°	954.6	959.1	999.6	1012.2	1009.5
47.5°	894.4	912.4	942.1	956.4	949.3
50°	835.1	847.7	878.2	897.1	889.9
52.5°	780.3	790.1	821.6	832.4	825.2
55°	713.7	729.9	756.0	766.8	760.5
57.5°	656.2	667.9	700.3	703.8	700.3
60°	596.0	609.5	635.5	638.2	631.0
62.5°	538.4	547.4	570.8	571.7	563.6
65°	477.3	488.1	504.3	502.5	494.4
67.5°	417.1	424.3	439.6	433.3	424.3
70°	356.0	362.3	374.8	365.9	357.8
72.5°	296.6	301.1	311.9	298.4	288.6
75°	238.2	240.0	248.1	231.0	216.6
77.5°	180.7	182.5	187.0	169.9	153.7
80°	128.5	128.5	130.3	112.4	101.6
82.5°	80.9	80.9	80.0	66.5	60.2
85°	42.2	41.3	40.5	32.4	29.7
87.5°	15.3	15.3	12.6	11.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)