

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: P485121

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-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: P485121
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-LD4-1STD-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

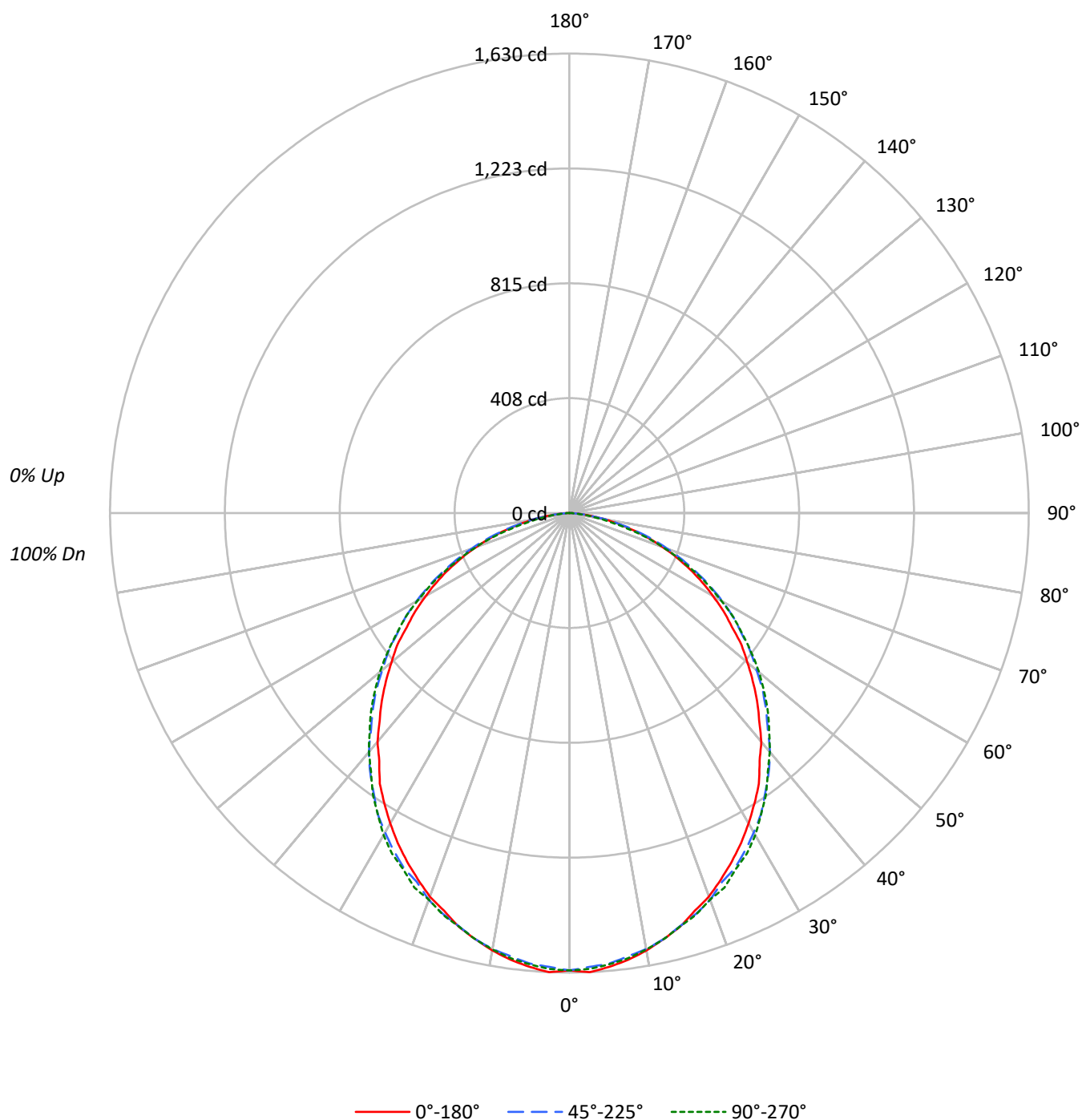
Lumens per Lamp: N/A
Luminaire Lumens: 4167.1 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P485121

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485121

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-50-120-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°	4366	4366	4366
5°	4366	4334	4342
10°	4304	4290	4295
15°	4231	4226	4228
20°	4145	4181	4178
25°	4048	4127	4140
30°	3950	4065	4098
35°	3852	3978	3995
40°	3720	3889	3886
45°	3585	3754	3791
50°	3450	3628	3676
55°	3304	3500	3521
60°	3165	3375	3351
65°	2999	3168	3107
70°	2764	2910	2777
75°	2444	2545	2223
80°	1965	1993	1553
85°	1288	1232	905



TEST NUMBER: P485121

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	3.7
10°-20°	428.8	10.3
20°-30°	638.4	15.3
30°-40°	751.4	18.0
40°-50°	753.4	18.1
50°-60°	660.7	15.9
60°-70°	483.1	11.6
70°-80°	249.0	6.0
80°-90°	49.9	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°	1219.6	29.3
0°-40°	1971.1	47.3
0°-60°	3385.1	81.2
0°-90°	4167.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1616	1606	1605	1615	1607	153
15°	1519	1521	1517	1526	1518	427
25°	1363	1370	1390	1410	1394	628
35°	1173	1178	1211	1224	1216	730
45°	942	946	986	999	996	726
55°	704	720	746	757	750	632
65°	471	482	498	496	488	466
75°	235	237	245	228	214	249
85°	42	41	40	32	29	54
90°	0	0	0	0	0	



TEST NUMBER: P485121

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.3	1622.3	1622.3	1622.3	1622.3
2.5°	1630.3	1622.3	1611.7	1620.6	1618.8
5°	1616.1	1605.5	1604.6	1615.2	1607.3
7.5°	1598.4	1596.6	1586.0	1597.5	1593.1
10°	1575.3	1573.6	1570.0	1578.0	1571.8
12.5°	1547.8	1546.1	1547.8	1552.3	1547.8
15°	1518.6	1521.2	1516.8	1526.5	1517.7
17.5°	1479.5	1482.2	1491.1	1494.6	1493.7
20°	1447.6	1449.4	1460.0	1474.2	1459.1
22.5°	1405.9	1410.3	1415.7	1441.4	1437.8
25°	1363.3	1369.5	1389.9	1409.5	1394.4
27.5°	1319.0	1325.2	1350.0	1364.2	1362.5
30°	1271.1	1277.3	1308.3	1327.9	1319.0
32.5°	1221.4	1232.1	1265.8	1282.6	1265.8
35°	1172.6	1178.0	1210.8	1224.1	1216.1
37.5°	1107.9	1128.3	1161.1	1170.0	1155.8
40°	1059.1	1060.0	1107.0	1107.0	1106.1
42.5°	996.1	1010.3	1041.4	1058.2	1049.3
45°	942.0	946.4	986.4	998.8	996.1
47.5°	882.6	900.3	929.6	943.8	936.7
50°	824.0	836.5	866.6	885.2	878.1
52.5°	769.9	779.7	810.7	821.4	814.3
55°	704.3	720.3	746.0	756.6	750.4
57.5°	647.5	659.1	691.0	694.5	691.0
60°	588.1	601.4	627.1	629.8	622.7
62.5°	531.3	540.2	563.3	564.1	556.2
65°	471.0	481.6	497.6	495.8	487.9
67.5°	411.6	418.7	433.7	427.5	418.7
70°	351.3	357.5	369.9	361.0	353.0
72.5°	292.7	297.1	307.8	294.5	284.7
75°	235.1	236.8	244.8	228.0	213.8
77.5°	178.3	180.1	184.5	167.6	151.7
80°	126.8	126.8	128.6	110.9	100.2
82.5°	79.8	79.8	78.9	65.6	59.4
85°	41.7	40.8	39.9	31.9	29.3
87.5°	15.1	15.1	12.4	11.5	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)