

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: P485113

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1STD-27-120-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: P485113
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-27-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

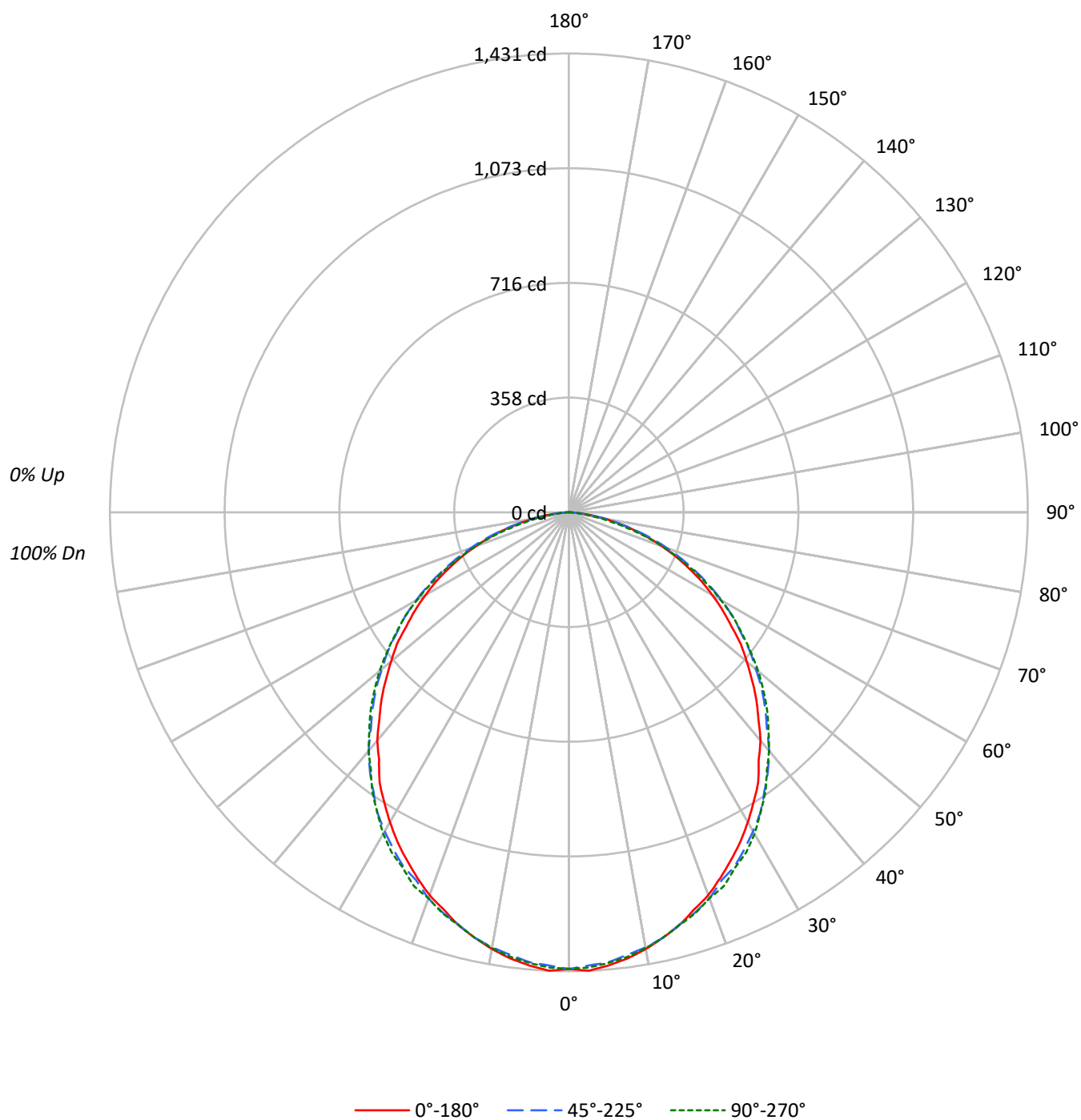
Lumens per Lamp: N/A
Luminaire Lumens: 3657.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P485113

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-27-120-EDD

Luminous Intensity Polar Plot



TEST NUMBER: P485113

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-27-120-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°	3832	3832	3832
5°	3832	3804	3811
10°	3778	3765	3770
15°	3713	3709	3711
20°	3639	3670	3668
25°	3553	3622	3634
30°	3466	3568	3597
35°	3381	3491	3506
40°	3266	3413	3410
45°	3146	3295	3327
50°	3028	3184	3227
55°	2900	3072	3090
60°	2778	2962	2941
65°	2632	2781	2727
70°	2426	2555	2438
75°	2145	2234	1951
80°	1725	1750	1364
85°	1130	1081	794



TEST NUMBER: P485113

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	3.7
10°-20°	376.3	10.3
20°-30°	560.3	15.3
30°-40°	659.5	18.0
40°-50°	661.3	18.1
50°-60°	579.9	15.9
60°-70°	424.0	11.6
70°-80°	218.5	6.0
80°-90°	43.8	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°	1070.5	29.3
0°-40°	1730.0	47.3
0°-60°	2971.1	81.2
0°-90°	3657.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1418	1409	1408	1418	1411	134
15°	1333	1335	1331	1340	1332	375
25°	1197	1202	1220	1237	1224	551
35°	1029	1034	1063	1074	1067	641
45°	827	831	866	877	874	637
55°	618	632	655	664	659	555
65°	413	423	437	435	428	409
75°	206	208	215	200	188	219
85°	37	36	35	28	26	48
90°	0	0	0	0	0	



TEST NUMBER: P485113

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.9	1423.9	1423.9	1423.9	1423.9
2.5°	1431.0	1423.9	1414.6	1422.4	1420.8
5°	1418.5	1409.2	1408.4	1417.7	1410.7
7.5°	1402.9	1401.4	1392.0	1402.1	1398.3
10°	1382.7	1381.1	1378.0	1385.0	1379.6
12.5°	1358.5	1357.0	1358.5	1362.4	1358.5
15°	1332.9	1335.2	1331.3	1339.9	1332.1
17.5°	1298.6	1300.9	1308.7	1311.8	1311.1
20°	1270.6	1272.1	1281.5	1293.9	1280.7
22.5°	1234.0	1237.9	1242.5	1265.1	1262.0
25°	1196.6	1202.1	1220.0	1237.1	1223.9
27.5°	1157.7	1163.1	1184.9	1197.4	1195.8
30°	1115.6	1121.1	1148.3	1165.5	1157.7
32.5°	1072.0	1081.4	1111.0	1125.8	1111.0
35°	1029.2	1033.9	1062.7	1074.4	1067.4
37.5°	972.4	990.3	1019.1	1026.9	1014.4
40°	929.6	930.4	971.6	971.6	970.8
42.5°	874.3	886.8	914.0	928.8	921.0
45°	826.8	830.7	865.7	876.6	874.3
47.5°	774.6	790.2	815.9	828.4	822.1
50°	723.3	734.2	760.6	777.0	770.8
52.5°	675.8	684.3	711.6	720.9	714.7
55°	618.2	632.2	654.8	664.1	658.6
57.5°	568.3	578.5	606.5	609.6	606.5
60°	516.2	527.8	550.4	552.8	546.5
62.5°	466.3	474.1	494.4	495.2	488.1
65°	413.4	422.7	436.8	435.2	428.2
67.5°	361.2	367.5	380.7	375.3	367.5
70°	308.3	313.8	324.7	316.9	309.9
72.5°	256.9	260.8	270.2	258.5	249.9
75°	206.3	207.9	214.9	200.1	187.6
77.5°	156.5	158.0	161.9	147.1	133.1
80°	111.3	111.3	112.9	97.3	88.0
82.5°	70.1	70.1	69.3	57.6	52.2
85°	36.6	35.8	35.0	28.0	25.7
87.5°	13.2	13.2	10.9	10.1	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)