

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: P485100

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-1LO-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: P485100
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-LD4-1LO-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

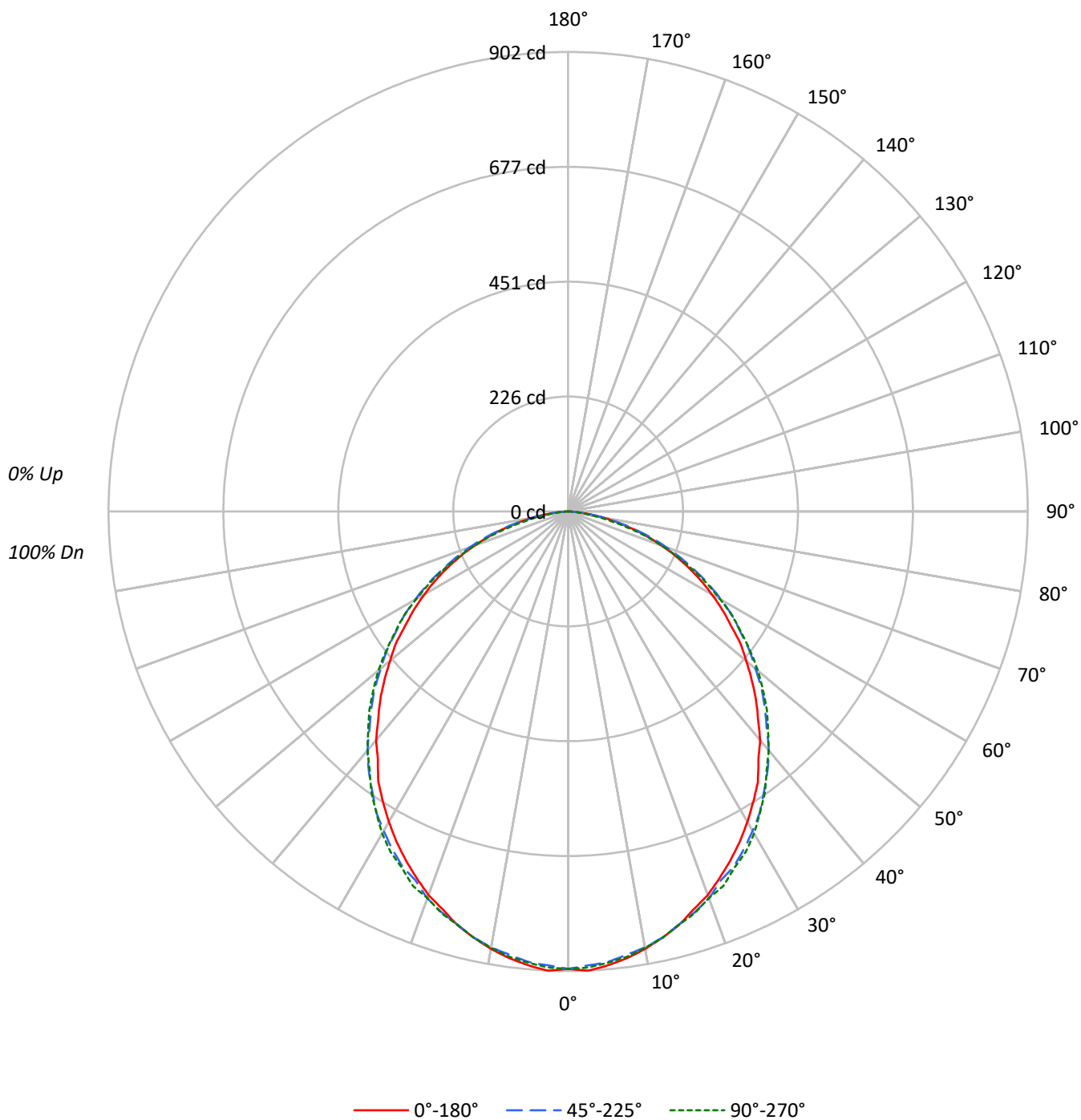
Lumens per Lamp: N/A
Luminaire Lumens: 2306.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P485100

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1LO-27-120-EDD-90

Luminous Intensity Polar Plot



TEST NUMBER: P485100

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1LO-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	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°	2416	2416	2416
5°	2416	2399	2403
10°	2382	2374	2377
15°	2341	2338	2340
20°	2294	2314	2312
25°	2240	2284	2291
30°	2186	2250	2268
35°	2132	2201	2211
40°	2059	2152	2150
45°	1984	2077	2098
50°	1909	2008	2035
55°	1829	1937	1948
60°	1752	1868	1855
65°	1660	1754	1719
70°	1530	1611	1537
75°	1353	1409	1230
80°	1088	1103	860
85°	713	682	500



TEST NUMBER: P485100

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1LO-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	3.7
10°-20°	237.3	10.3
20°-30°	353.3	15.3
30°-40°	415.8	18.0
40°-50°	416.9	18.1
50°-60°	365.6	15.9
60°-70°	267.3	11.6
70°-80°	137.8	6.0
80°-90°	27.7	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°	675.0	29.3
0°-40°	1090.8	47.3
0°-60°	1873.3	81.2
0°-90°	2306.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2306.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	894	888	888	894	890	85
15°	840	842	839	845	840	237
25°	754	758	769	780	772	348
35°	649	652	670	677	673	404
45°	521	524	546	553	551	402
55°	390	399	413	419	415	350
65°	261	266	275	274	270	258
75°	130	131	136	126	118	138
85°	23	23	22	18	16	30
90°	0	0	0	0	0	



TEST NUMBER: P485100

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-1LO-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.8	897.8	897.8	897.8	897.8
2.5°	902.2	897.8	891.9	896.8	895.9
5°	894.4	888.5	888.0	893.9	889.5
7.5°	884.6	883.6	877.7	884.1	881.6
10°	871.8	870.8	868.9	873.3	869.8
12.5°	856.6	855.6	856.6	859.0	856.6
15°	840.4	841.9	839.4	844.8	839.9
17.5°	818.8	820.3	825.2	827.1	826.6
20°	801.1	802.1	808.0	815.8	807.5
22.5°	778.0	780.5	783.4	797.7	795.7
25°	754.5	757.9	769.2	780.0	771.7
27.5°	729.9	733.4	747.1	755.0	754.0
30°	703.4	706.9	724.0	734.8	729.9
32.5°	675.9	681.8	700.5	709.8	700.5
35°	648.9	651.9	670.0	677.4	673.0
37.5°	613.1	624.4	642.6	647.5	639.6
40°	586.1	586.6	612.6	612.6	612.1
42.5°	551.3	559.1	576.3	585.6	580.7
45°	521.3	523.8	545.9	552.7	551.3
47.5°	488.4	498.2	514.4	522.3	518.4
50°	456.0	462.9	479.6	489.9	486.0
52.5°	426.1	431.5	448.7	454.6	450.6
55°	389.8	398.6	412.8	418.7	415.3
57.5°	358.3	364.7	382.4	384.4	382.4
60°	325.5	332.8	347.1	348.5	344.6
62.5°	294.0	298.9	311.7	312.2	307.8
65°	260.7	266.5	275.4	274.4	270.0
67.5°	227.8	231.7	240.0	236.6	231.7
70°	194.4	197.8	204.7	199.8	195.4
72.5°	162.0	164.4	170.3	163.0	157.6
75°	130.1	131.1	135.5	126.2	118.3
77.5°	98.7	99.6	102.1	92.8	83.9
80°	70.2	70.2	71.2	61.4	55.5
82.5°	44.2	44.2	43.7	36.3	32.9
85°	23.1	22.6	22.1	17.7	16.2
87.5°	8.3	8.3	6.9	6.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)