

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: P485985

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-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: P485985
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-LD4-4STD-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

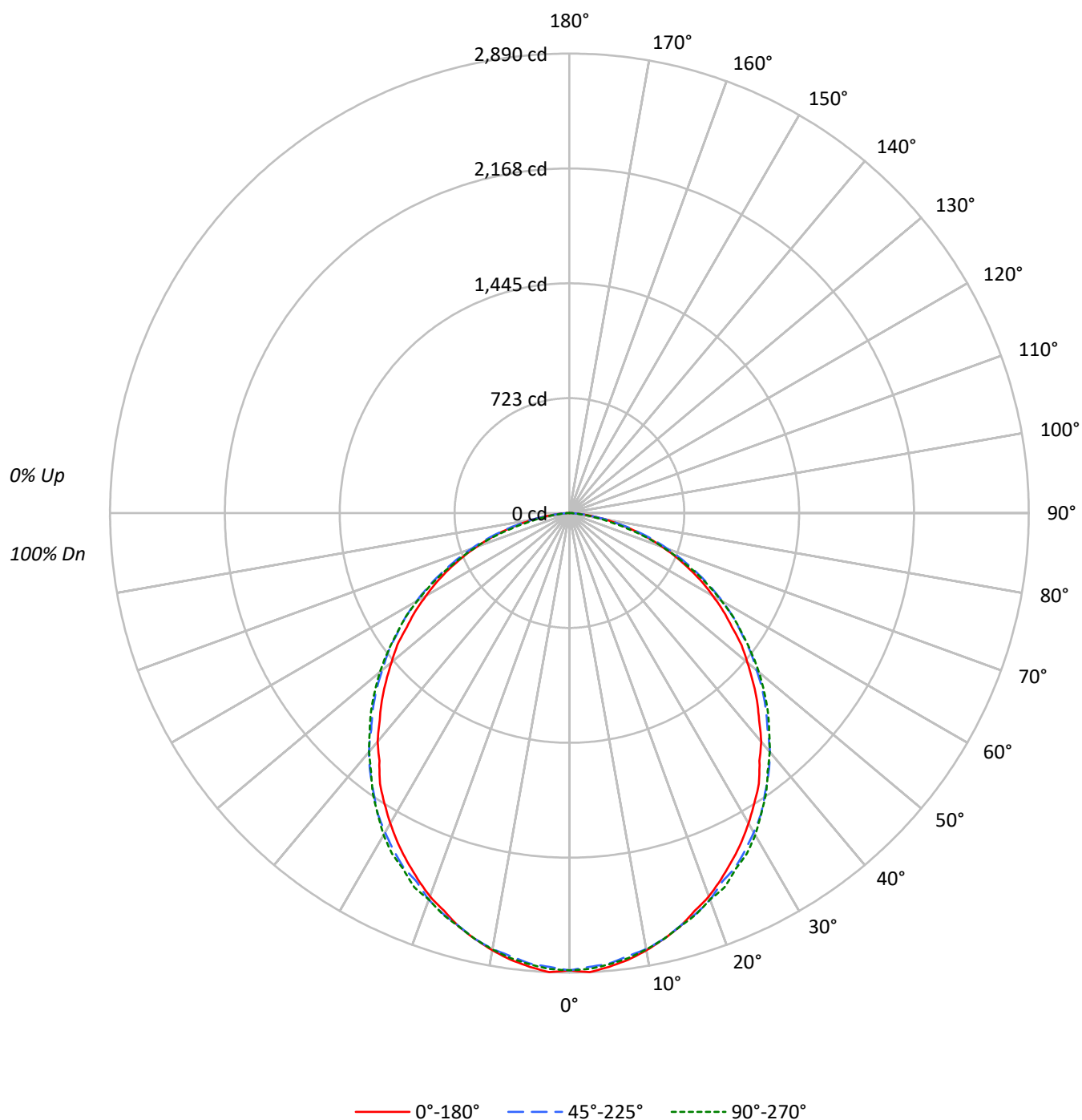
Lumens per Lamp: N/A
Luminaire Lumens: 7387.3 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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: P485985

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485985

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-50-120-EDD

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7739	7739	7739
5°	7739	7684	7697
10°	7631	7605	7614
15°	7500	7491	7495
20°	7349	7412	7407
25°	7176	7316	7339
30°	7002	7207	7266
35°	6829	7051	7082
40°	6595	6894	6888
45°	6355	6655	6720
50°	6116	6432	6517
55°	5857	6204	6241
60°	5611	5983	5941
65°	5317	5617	5507
70°	4899	5159	4924
75°	4332	4512	3941
80°	3485	3533	2754
85°	2282	2186	1602



TEST NUMBER: P485985

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	3.7
10°-20°	760.1	10.3
20°-30°	1131.7	15.3
30°-40°	1332.1	18.0
40°-50°	1335.6	18.1
50°-60°	1171.2	15.9
60°-70°	856.4	11.6
70°-80°	441.4	6.0
80°-90°	88.5	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°	2162.2	29.3
0°-40°	3494.2	47.3
0°-60°	6001.0	81.2
0°-90°	7387.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7387.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2876	2876	2876	2876	2876	
5°	2865	2846	2845	2864	2849	271
15°	2692	2697	2689	2706	2690	758
25°	2417	2428	2464	2499	2472	1113
35°	2079	2088	2146	2170	2156	1295
45°	1670	1678	1749	1771	1766	1287
55°	1248	1277	1322	1341	1330	1121
65°	835	854	882	879	865	826
75°	417	420	434	404	379	442
85°	74	72	71	57	52	96
90°	0	0	0	0	0	



TEST NUMBER: P485985

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-4STD-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2876.0	2876.0	2876.0	2876.0	2876.0
2.5°	2890.2	2876.0	2857.2	2872.9	2869.8
5°	2865.0	2846.2	2844.6	2863.5	2849.3
7.5°	2833.6	2830.4	2811.6	2832.0	2824.2
10°	2792.7	2789.6	2783.3	2797.4	2786.4
12.5°	2744.0	2740.8	2744.0	2751.8	2744.0
15°	2692.1	2696.8	2688.9	2706.2	2690.5
17.5°	2622.9	2627.6	2643.3	2649.6	2648.0
20°	2566.3	2569.4	2588.3	2613.4	2586.7
22.5°	2492.4	2500.2	2509.7	2555.3	2549.0
25°	2416.9	2427.9	2464.1	2498.6	2471.9
27.5°	2338.3	2349.3	2393.3	2418.5	2415.3
30°	2253.3	2264.4	2319.4	2354.0	2338.3
32.5°	2165.3	2184.2	2243.9	2273.8	2243.9
35°	2078.8	2088.2	2146.4	2170.0	2155.9
37.5°	1964.0	2000.2	2058.4	2074.1	2048.9
40°	1877.5	1879.1	1962.4	1962.4	1960.9
42.5°	1765.9	1791.0	1846.1	1876.0	1860.2
45°	1670.0	1677.8	1748.6	1770.6	1765.9
47.5°	1564.6	1596.1	1647.9	1673.1	1660.5
50°	1460.8	1482.8	1536.3	1569.3	1556.7
52.5°	1364.9	1382.2	1437.2	1456.1	1443.5
55°	1248.5	1276.8	1322.4	1341.3	1330.3
57.5°	1147.9	1168.3	1225.0	1231.2	1225.0
60°	1042.5	1066.1	1111.7	1116.5	1103.9
62.5°	941.9	957.6	998.5	1000.1	985.9
65°	835.0	853.8	882.2	879.0	864.9
67.5°	729.6	742.2	768.9	757.9	742.2
70°	622.7	633.7	655.7	640.0	625.8
72.5°	518.9	526.8	545.6	522.1	504.8
75°	416.7	419.8	434.0	404.1	379.0
77.5°	316.1	319.2	327.1	297.2	268.9
80°	224.9	224.9	228.0	196.6	177.7
82.5°	141.5	141.5	139.9	116.4	105.4
85°	73.9	72.3	70.8	56.6	51.9
87.5°	26.7	26.7	22.0	20.4	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)