

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: P485906

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-30-120-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: P485906
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-LD4-2STD-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

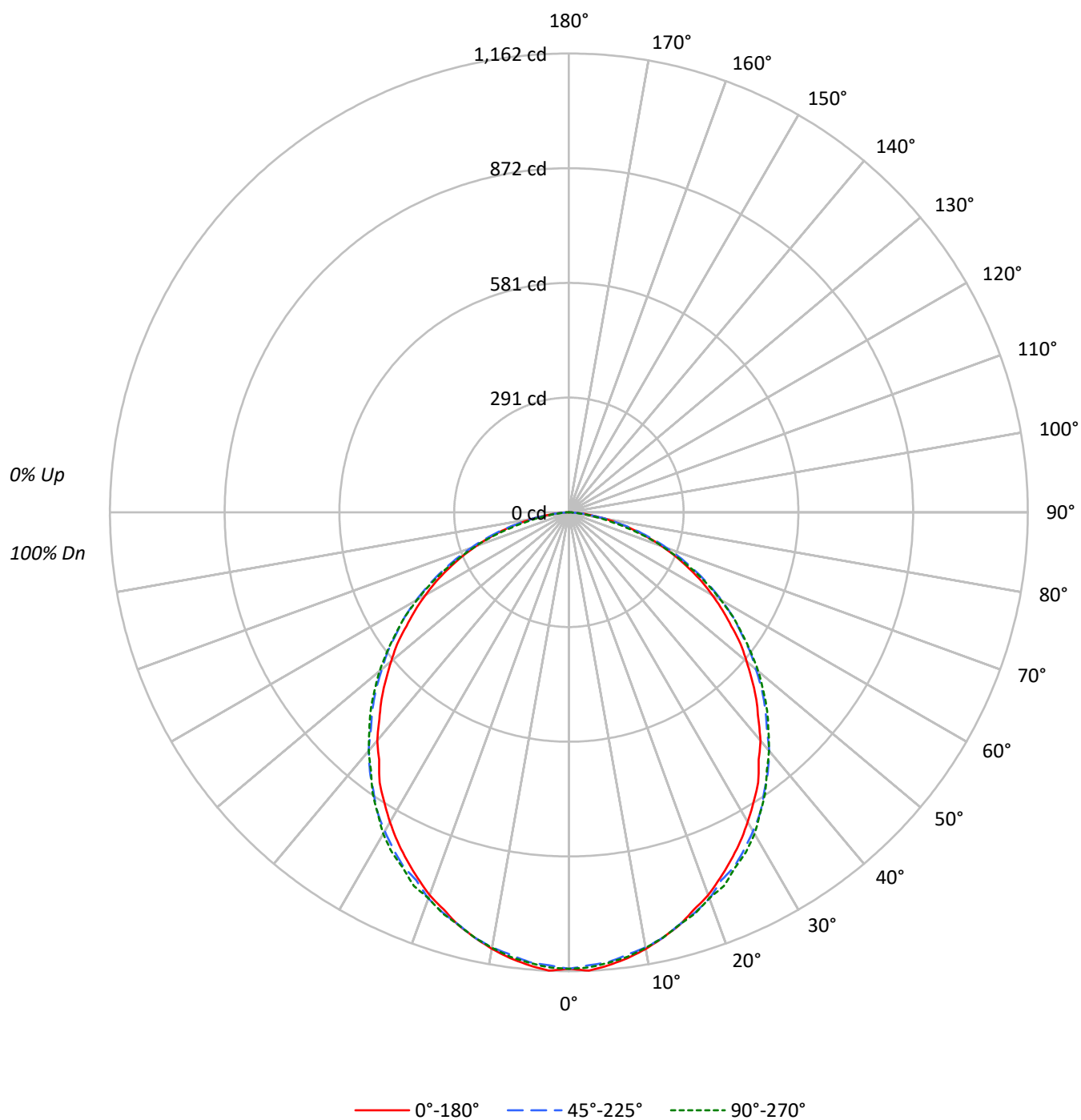
Lumens per Lamp: N/A
Luminaire Lumens: 2969.3 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P485906

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-30-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P485906

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-30-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	3111	3111	3111
5°	3111	3089	3094
10°	3067	3057	3060
15°	3015	3011	3013
20°	2954	2979	2977
25°	2885	2941	2950
30°	2814	2897	2921
35°	2745	2834	2847
40°	2651	2771	2769
45°	2554	2675	2701
50°	2458	2585	2619
55°	2354	2494	2509
60°	2255	2405	2388
65°	2137	2258	2213
70°	1969	2074	1980
75°	1742	1813	1583
80°	1401	1420	1106
85°	917	877	645



TEST NUMBER: P485906

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.7
10°-20°	305.5	10.3
20°-30°	454.9	15.3
30°-40°	535.4	18.0
40°-50°	536.8	18.1
50°-60°	470.8	15.9
60°-70°	344.2	11.6
70°-80°	177.4	6.0
80°-90°	35.6	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°	869.1	29.3
0°-40°	1404.5	47.3
0°-60°	2412.1	81.2
0°-90°	2969.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1152	1144	1143	1151	1145	109
15°	1082	1084	1081	1088	1081	305
25°	972	976	990	1004	994	447
35°	836	839	863	872	866	520
45°	671	674	703	712	710	517
55°	502	513	532	539	535	450
65°	336	343	355	353	348	332
75°	168	169	174	162	152	177
85°	30	29	28	23	21	39
90°	0	0	0	0	0	



TEST NUMBER: P485906

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.0	1156.0	1156.0	1156.0	1156.0
2.5°	1161.7	1156.0	1148.4	1154.8	1153.5
5°	1151.6	1144.0	1143.4	1151.0	1145.3
7.5°	1138.9	1137.7	1130.1	1138.3	1135.2
10°	1122.5	1121.3	1118.7	1124.4	1120.0
12.5°	1102.9	1101.7	1102.9	1106.1	1102.9
15°	1082.1	1084.0	1080.8	1087.8	1081.4
17.5°	1054.3	1056.2	1062.5	1065.0	1064.4
20°	1031.5	1032.8	1040.4	1050.5	1039.7
22.5°	1001.8	1005.0	1008.7	1027.1	1024.5
25°	971.5	975.9	990.4	1004.3	993.6
27.5°	939.9	944.3	962.0	972.1	970.8
30°	905.7	910.1	932.3	946.2	939.9
32.5°	870.3	877.9	901.9	913.9	901.9
35°	835.6	839.4	862.7	872.2	866.5
37.5°	789.4	804.0	827.4	833.7	823.6
40°	754.7	755.3	788.8	788.8	788.2
42.5°	709.8	719.9	742.0	754.0	747.7
45°	671.2	674.4	702.8	711.7	709.8
47.5°	628.9	641.5	662.4	672.5	667.4
50°	587.2	596.0	617.5	630.8	625.7
52.5°	548.6	555.6	577.7	585.3	580.2
55°	501.8	513.2	531.6	539.1	534.7
57.5°	461.4	469.6	492.4	494.9	492.4
60°	419.0	428.5	446.9	448.8	443.7
62.5°	378.6	384.9	401.4	402.0	396.3
65°	335.6	343.2	354.6	353.3	347.6
67.5°	293.3	298.3	309.1	304.6	298.3
70°	250.3	254.7	263.6	257.2	251.6
72.5°	208.6	211.7	219.3	209.8	202.9
75°	167.5	168.8	174.4	162.4	152.3
77.5°	127.0	128.3	131.5	119.5	108.1
80°	90.4	90.4	91.6	79.0	71.4
82.5°	56.9	56.9	56.3	46.8	42.3
85°	29.7	29.1	28.4	22.8	20.9
87.5°	10.7	10.7	8.8	8.2	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)