

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: P485904

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-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: P485904
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-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

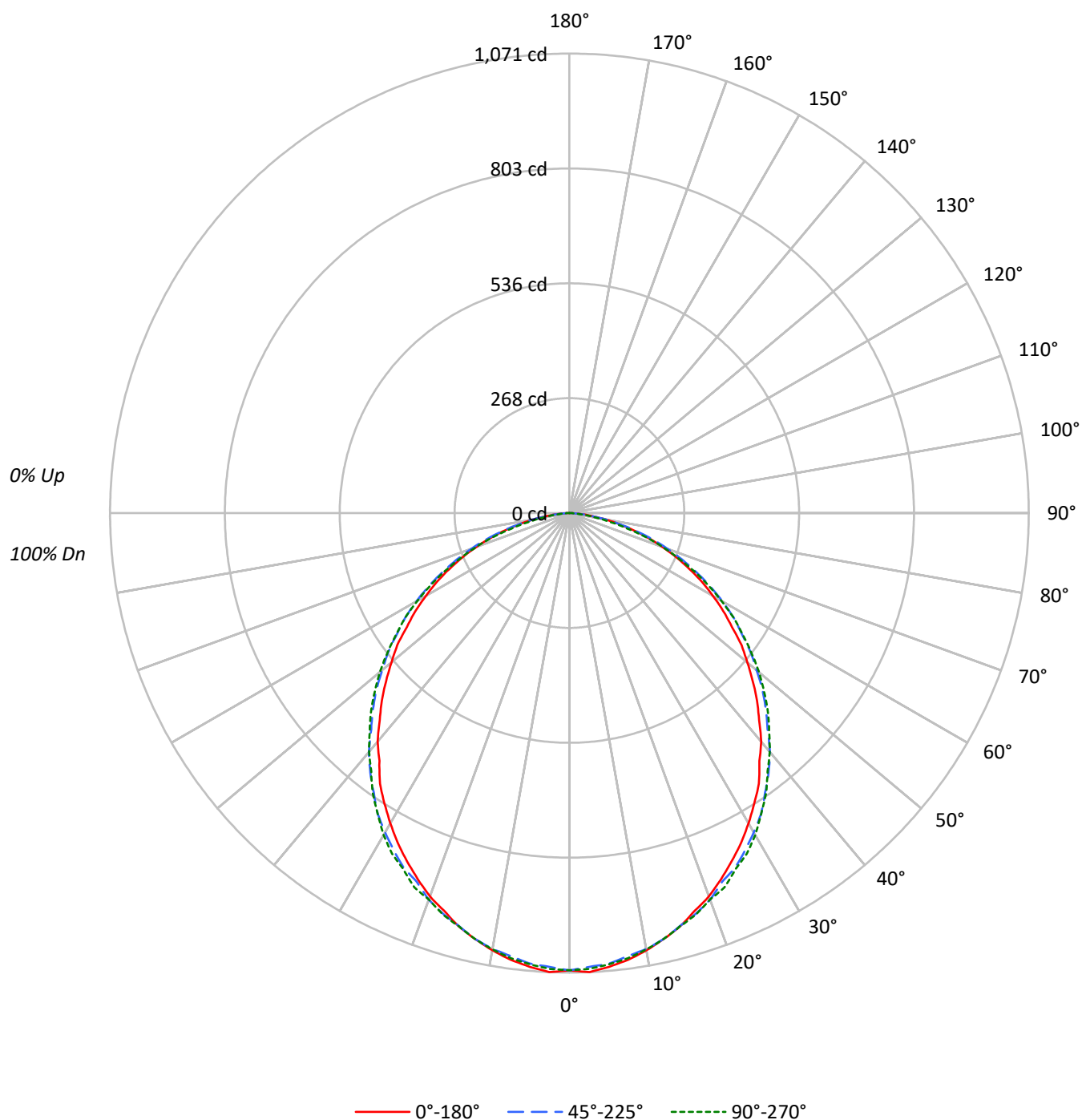
Lumens per Lamp: N/A
Luminaire Lumens: 2737.4 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P485904

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P485904

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-27-120-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°	2868	2868	2868
5°	2868	2847	2852
10°	2828	2818	2821
15°	2779	2776	2778
20°	2723	2747	2745
25°	2659	2711	2720
30°	2595	2671	2692
35°	2530	2613	2624
40°	2444	2555	2552
45°	2355	2466	2490
50°	2266	2383	2415
55°	2171	2299	2313
60°	2079	2217	2201
65°	1970	2082	2041
70°	1815	1912	1825
75°	1605	1672	1460
80°	1291	1309	1020
85°	846	809	593



TEST NUMBER: P485904

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.7
10°-20°	281.7	10.3
20°-30°	419.4	15.3
30°-40°	493.6	18.0
40°-50°	494.9	18.1
50°-60°	434.0	15.9
60°-70°	317.3	11.6
70°-80°	163.5	6.0
80°-90°	32.8	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°	801.2	29.3
0°-40°	1294.8	47.3
0°-60°	2223.7	81.2
0°-90°	2737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1062	1055	1054	1061	1056	100
15°	998	999	996	1003	997	281
25°	896	900	913	926	916	413
35°	770	774	795	804	799	480
45°	619	622	648	656	654	477
55°	463	473	490	497	493	415
65°	309	316	327	326	320	306
75°	154	156	161	150	140	164
85°	27	27	26	21	19	36
90°	0	0	0	0	0	



TEST NUMBER: P485904

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.7	1065.7	1065.7	1065.7	1065.7
2.5°	1071.0	1065.7	1058.7	1064.6	1063.4
5°	1061.7	1054.7	1054.1	1061.1	1055.8
7.5°	1050.0	1048.8	1041.8	1049.4	1046.5
10°	1034.8	1033.7	1031.4	1036.6	1032.5
12.5°	1016.8	1015.6	1016.8	1019.7	1016.8
15°	997.6	999.3	996.4	1002.8	997.0
17.5°	971.9	973.7	979.5	981.8	981.2
20°	950.9	952.1	959.1	968.4	958.5
22.5°	923.6	926.5	930.0	946.9	944.5
25°	895.6	899.7	913.1	925.9	916.0
27.5°	866.5	870.5	886.8	896.2	895.0
30°	835.0	839.1	859.5	872.3	866.5
32.5°	802.4	809.3	831.5	842.6	831.5
35°	770.3	773.8	795.4	804.1	798.9
37.5°	727.8	741.2	762.7	768.6	759.2
40°	695.7	696.3	727.2	727.2	726.6
42.5°	654.4	663.7	684.1	695.1	689.3
45°	618.8	621.7	647.9	656.1	654.4
47.5°	579.8	591.4	610.7	620.0	615.3
50°	541.3	549.5	569.3	581.5	576.9
52.5°	505.8	512.2	532.6	539.6	534.9
55°	462.7	473.1	490.0	497.0	493.0
57.5°	425.4	432.9	453.9	456.2	453.9
60°	386.3	395.1	412.0	413.7	409.0
62.5°	349.0	354.9	370.0	370.6	365.3
65°	309.4	316.4	326.9	325.7	320.5
67.5°	270.4	275.0	284.9	280.9	275.0
70°	230.7	234.8	243.0	237.2	231.9
72.5°	192.3	195.2	202.2	193.5	187.0
75°	154.4	155.6	160.8	149.8	140.4
77.5°	117.1	118.3	121.2	110.1	99.6
80°	83.3	83.3	84.5	72.8	65.8
82.5°	52.4	52.4	51.9	43.1	39.0
85°	27.4	26.8	26.2	21.0	19.2
87.5°	9.9	9.9	8.2	7.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)