

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: P485879

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-20-120-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: P485879
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-LD4-2HI-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

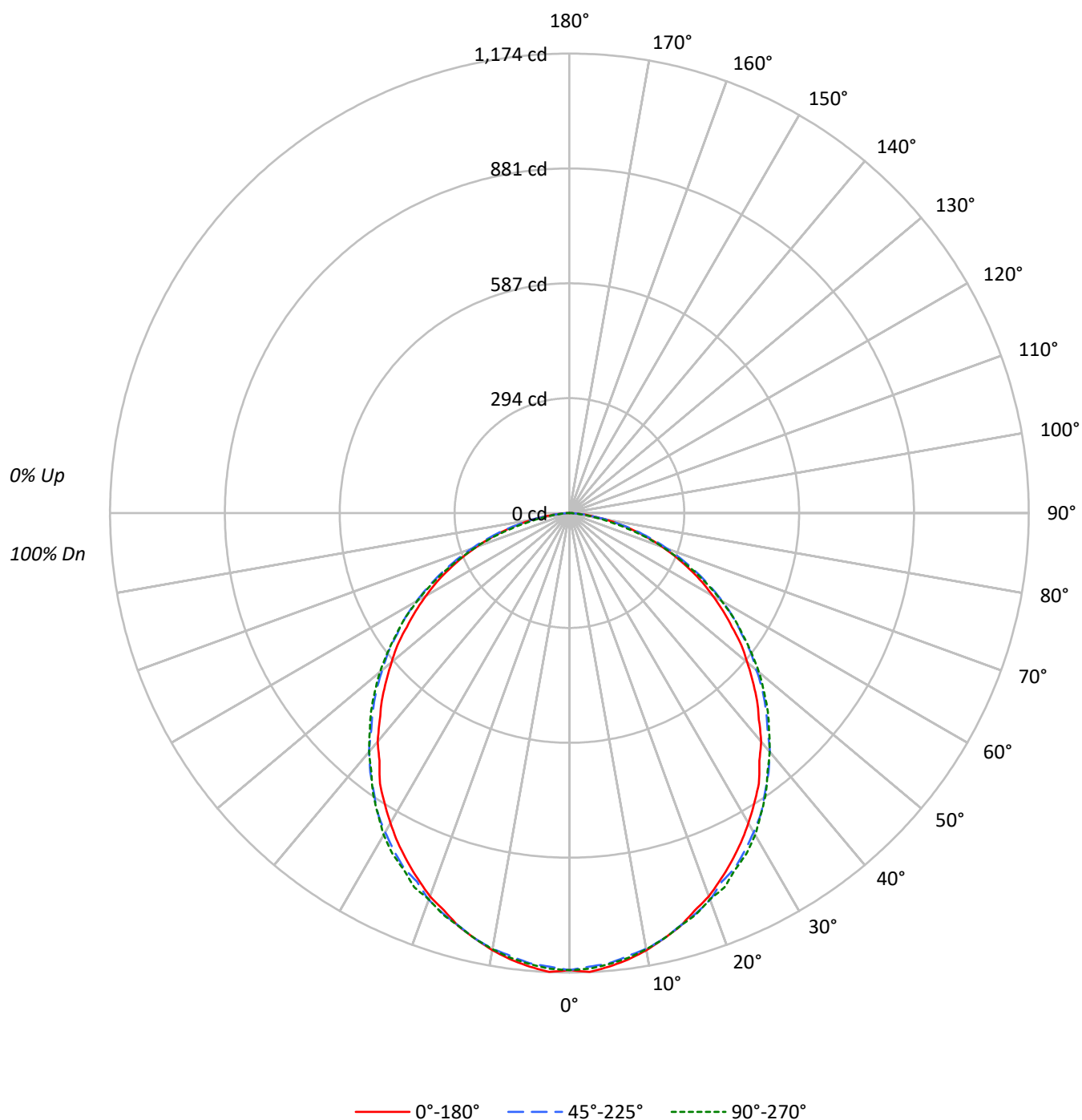
Lumens per Lamp: N/A
Luminaire Lumens: 2999.4 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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: P485879

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2HI-20-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485879

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2HI-20-120-EDD

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°	3142	3142	3142
5°	3142	3120	3125
10°	3098	3088	3091
15°	3045	3042	3043
20°	2984	3009	3008
25°	2914	2971	2980
30°	2843	2926	2950
35°	2773	2863	2875
40°	2678	2799	2797
45°	2580	2702	2729
50°	2483	2611	2646
55°	2378	2519	2534
60°	2278	2429	2412
65°	2159	2281	2236
70°	1989	2094	1999
75°	1759	1832	1600
80°	1415	1435	1117
85°	926	886	651



TEST NUMBER: P485879

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2HI-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.7
10°-20°	308.6	10.3
20°-30°	459.5	15.3
30°-40°	540.9	18.0
40°-50°	542.3	18.1
50°-60°	475.5	15.9
60°-70°	347.7	11.6
70°-80°	179.2	6.0
80°-90°	36.0	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°	877.9	29.3
0°-40°	1418.7	47.3
0°-60°	2436.5	81.2
0°-90°	2999.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1163	1156	1155	1163	1157	110
15°	1093	1095	1092	1099	1092	308
25°	981	986	1000	1014	1004	452
35°	844	848	872	881	875	526
45°	678	681	710	719	717	523
55°	507	518	537	545	540	455
65°	339	347	358	357	351	335
75°	169	170	176	164	154	179
85°	30	29	29	23	21	39
90°	0	0	0	0	0	



TEST NUMBER: P485879

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2HI-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1173.5	1167.7	1160.1	1166.5	1165.2
5°	1163.3	1155.6	1155.0	1162.6	1156.9
7.5°	1150.5	1149.2	1141.6	1149.9	1146.7
10°	1133.9	1132.6	1130.1	1135.8	1131.3
12.5°	1114.1	1112.8	1114.1	1117.3	1114.1
15°	1093.0	1094.9	1091.8	1098.8	1092.4
17.5°	1064.9	1066.9	1073.2	1075.8	1075.2
20°	1042.0	1043.2	1050.9	1061.1	1050.3
22.5°	1012.0	1015.1	1019.0	1037.5	1034.9
25°	981.3	985.8	1000.5	1014.5	1003.7
27.5°	949.4	953.9	971.7	981.9	980.7
30°	914.9	919.4	941.7	955.8	949.4
32.5°	879.2	886.8	911.1	923.2	911.1
35°	844.0	847.9	871.5	881.1	875.3
37.5°	797.4	812.1	835.7	842.1	831.9
40°	762.3	763.0	796.8	796.8	796.2
42.5°	717.0	727.2	749.5	761.7	755.3
45°	678.0	681.2	710.0	718.9	717.0
47.5°	635.3	648.0	669.1	679.3	674.2
50°	593.1	602.1	623.8	637.2	632.1
52.5°	554.2	561.2	583.5	591.2	586.1
55°	506.9	518.4	536.9	544.6	540.1
57.5°	466.1	474.4	497.4	499.9	497.4
60°	423.3	432.9	451.4	453.3	448.2
62.5°	382.4	388.8	405.4	406.1	400.3
65°	339.0	346.7	358.2	356.9	351.2
67.5°	296.2	301.4	312.2	307.7	301.4
70°	252.8	257.3	266.2	259.9	254.1
72.5°	210.7	213.9	221.5	212.0	204.9
75°	169.2	170.5	176.2	164.1	153.9
77.5°	128.3	129.6	132.8	120.7	109.2
80°	91.3	91.3	92.6	79.8	72.1
82.5°	57.5	57.5	56.8	47.2	42.8
85°	30.0	29.4	28.7	23.0	21.1
87.5°	10.9	10.9	8.9	8.3	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)