

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: P485911

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-40-120-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: P485911
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-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

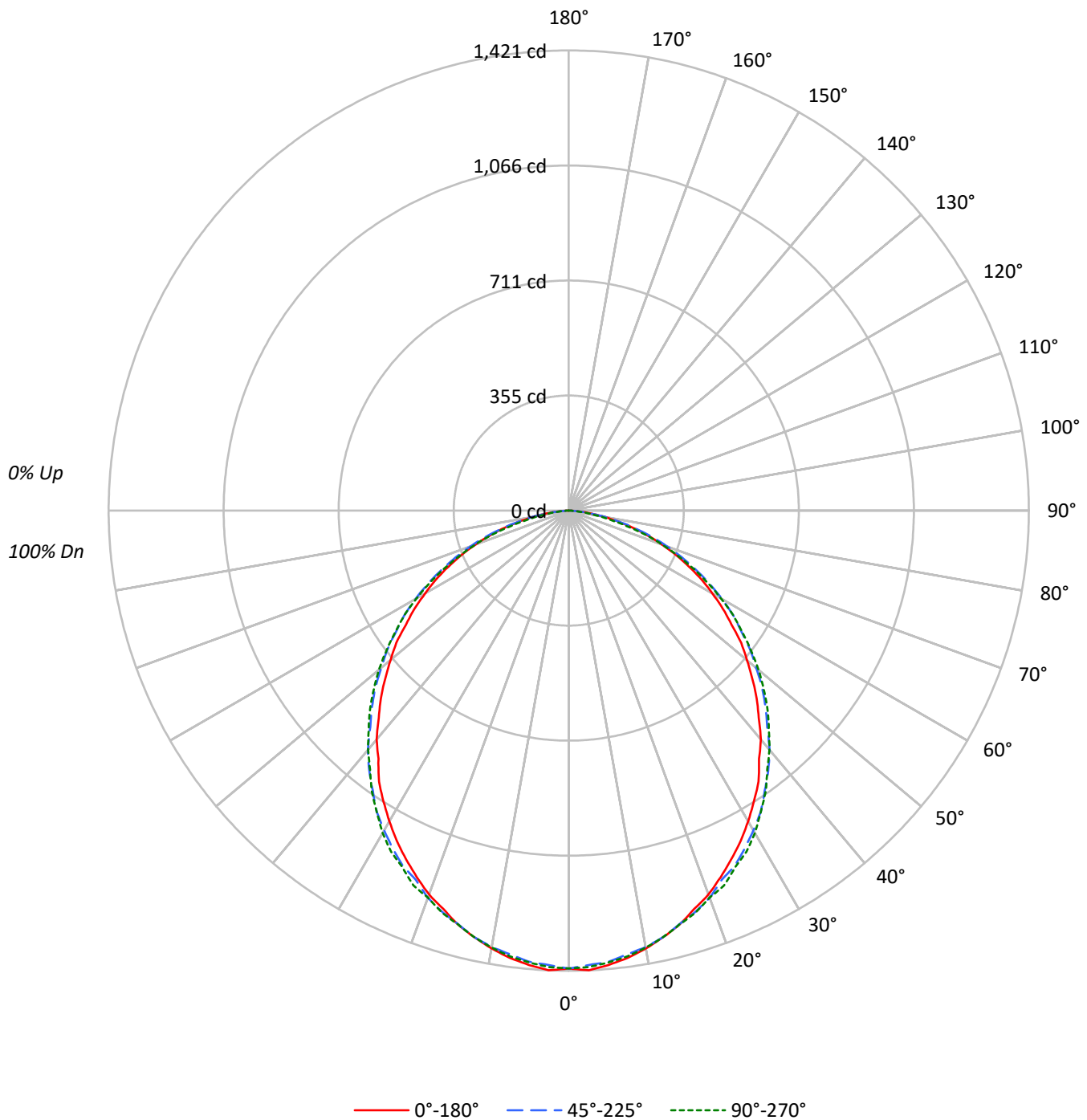
Lumens per Lamp: N/A
Luminaire Lumens: 3632.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P485911

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485911

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-40-120-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°	3805	3805	3805
5°	3805	3778	3784
10°	3752	3739	3744
15°	3687	3683	3685
20°	3613	3644	3642
25°	3528	3597	3608
30°	3443	3543	3572
35°	3358	3467	3482
40°	3243	3389	3387
45°	3124	3272	3304
50°	3007	3162	3204
55°	2880	3050	3069
60°	2759	2942	2921
65°	2614	2762	2707
70°	2409	2537	2421
75°	2130	2219	1937
80°	1714	1737	1354
85°	1121	1074	787



TEST NUMBER: P485911

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.7
10°-20°	373.7	10.3
20°-30°	556.4	15.3
30°-40°	654.9	18.0
40°-50°	656.6	18.1
50°-60°	575.8	15.9
60°-70°	421.1	11.6
70°-80°	217.0	6.0
80°-90°	43.5	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°	1063.0	29.3
0°-40°	1718.0	47.3
0°-60°	2950.4	81.2
0°-90°	3632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1409	1399	1399	1408	1401	133
15°	1324	1326	1322	1330	1323	372
25°	1188	1194	1212	1228	1215	547
35°	1022	1027	1055	1067	1060	637
45°	821	825	860	870	868	633
55°	614	628	650	660	654	551
65°	410	420	434	432	425	406
75°	205	206	213	199	186	217
85°	36	36	35	28	26	47
90°	0	0	0	0	0	



TEST NUMBER: P485911

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.0	1414.0	1414.0	1414.0	1414.0
2.5°	1421.0	1414.0	1404.7	1412.5	1410.9
5°	1408.6	1399.3	1398.6	1407.8	1400.9
7.5°	1393.1	1391.6	1382.3	1392.4	1388.5
10°	1373.0	1371.5	1368.4	1375.4	1370.0
12.5°	1349.1	1347.5	1349.1	1352.9	1349.1
15°	1323.6	1325.9	1322.0	1330.5	1322.8
17.5°	1289.5	1291.9	1299.6	1302.7	1301.9
20°	1261.7	1263.3	1272.5	1284.9	1271.8
22.5°	1225.4	1229.2	1233.9	1256.3	1253.2
25°	1188.3	1193.7	1211.5	1228.5	1215.3
27.5°	1149.6	1155.0	1176.7	1189.0	1187.5
30°	1107.9	1113.3	1140.3	1157.3	1149.6
32.5°	1064.6	1073.9	1103.2	1117.9	1103.2
35°	1022.1	1026.7	1055.3	1066.9	1059.9
37.5°	965.6	983.4	1012.0	1019.7	1007.4
40°	923.1	923.9	964.8	964.8	964.1
42.5°	868.2	880.6	907.6	922.3	914.6
45°	821.0	824.9	859.7	870.5	868.2
47.5°	769.2	784.7	810.2	822.6	816.4
50°	718.2	729.0	755.3	771.6	765.4
52.5°	671.1	679.6	706.6	715.9	709.7
55°	613.8	627.8	650.2	659.5	654.1
57.5°	564.4	574.4	602.3	605.3	602.3
60°	512.6	524.2	546.6	548.9	542.7
62.5°	463.1	470.8	490.9	491.7	484.7
65°	410.5	419.8	433.7	432.2	425.2
67.5°	358.7	364.9	378.1	372.6	364.9
70°	306.2	311.6	322.4	314.7	307.7
72.5°	255.1	259.0	268.3	256.7	248.2
75°	204.9	206.4	213.4	198.7	186.3
77.5°	155.4	156.9	160.8	146.1	132.2
80°	110.6	110.6	112.1	96.6	87.4
82.5°	69.6	69.6	68.8	57.2	51.8
85°	36.3	35.6	34.8	27.8	25.5
87.5°	13.1	13.1	10.8	10.1	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)