

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: P485988

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5HI-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: P485988
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-LD4-5HI-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

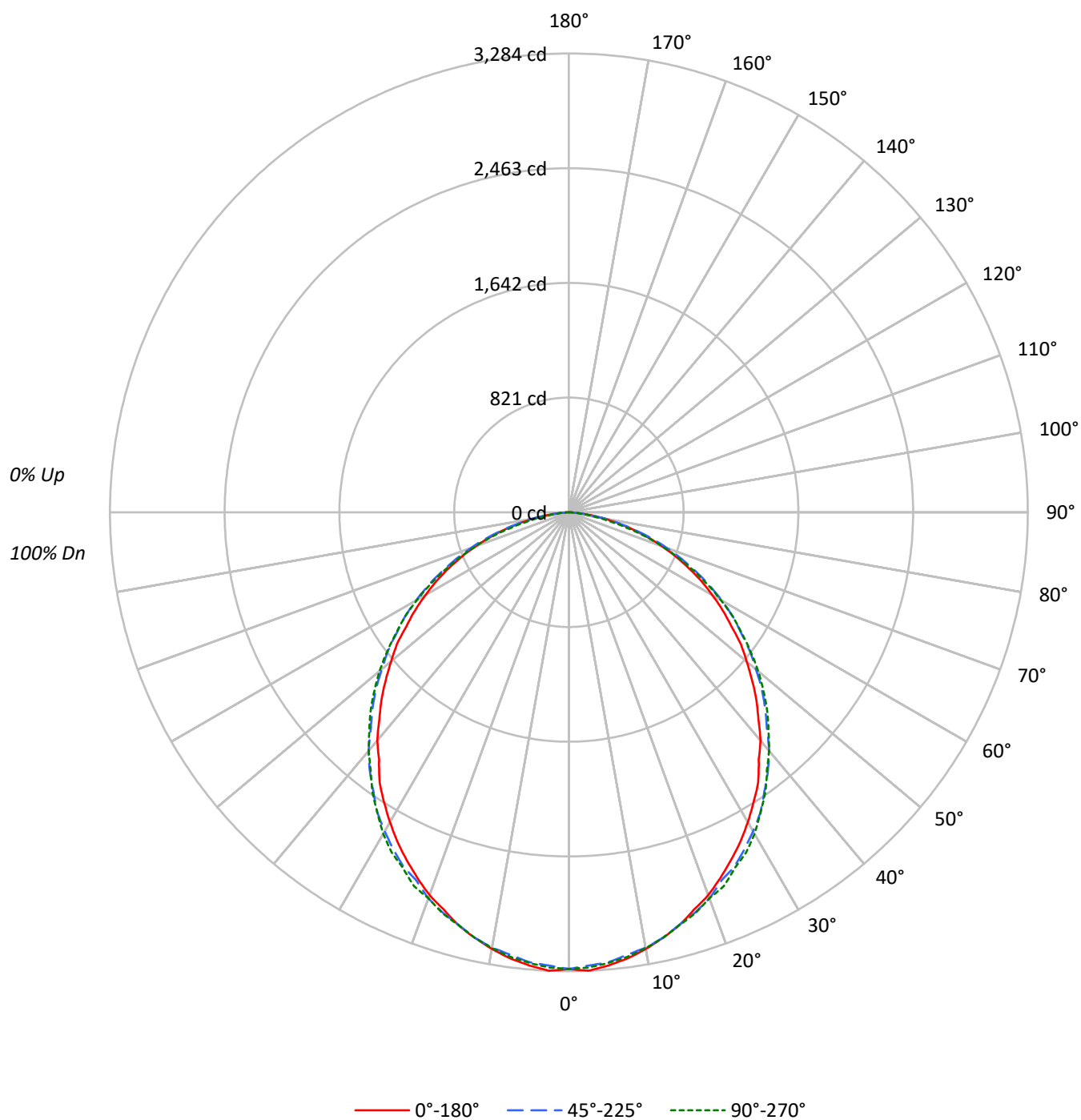
Lumens per Lamp: N/A
Luminaire Lumens: 8394.1 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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: P485988

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P485988

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-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°	8794	8794	8794
5°	8794	8731	8746
10°	8671	8642	8652
15°	8522	8512	8517
20°	8350	8422	8417
25°	8154	8313	8340
30°	7956	8189	8256
35°	7760	8012	8047
40°	7494	7833	7827
45°	7222	7561	7636
50°	6949	7308	7405
55°	6656	7050	7092
60°	6375	6798	6751
65°	6041	6383	6257
70°	5567	5862	5595
75°	4923	5127	4477
80°	3959	4015	3129
85°	2594	2482	1822



TEST NUMBER: P485988

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	3.7
10°-20°	863.7	10.3
20°-30°	1285.9	15.3
30°-40°	1513.6	18.0
40°-50°	1517.6	18.1
50°-60°	1330.8	15.9
60°-70°	973.1	11.6
70°-80°	501.5	6.0
80°-90°	100.6	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°	2456.8	29.3
0°-40°	3970.5	47.3
0°-60°	6818.8	81.2
0°-90°	8394.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8394.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3268	3268	3268	3268	3268	
5°	3256	3234	3232	3254	3238	308
15°	3059	3064	3055	3075	3057	861
25°	2746	2759	2800	2839	2809	1265
35°	2362	2373	2439	2466	2450	1471
45°	1898	1906	1987	2012	2006	1462
55°	1419	1451	1503	1524	1512	1273
65°	949	970	1002	999	983	939
75°	474	477	493	459	431	502
85°	84	82	80	64	59	110
90°	0	0	0	0	0	



TEST NUMBER: P485988

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-5HI-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3268.0	3268.0	3268.0	3268.0	3268.0
2.5°	3284.1	3268.0	3246.6	3264.4	3260.9
5°	3255.5	3234.1	3232.3	3253.7	3237.6
7.5°	3219.8	3216.2	3194.8	3218.0	3209.0
10°	3173.3	3169.7	3162.6	3178.7	3166.2
12.5°	3117.9	3114.3	3117.9	3126.9	3117.9
15°	3059.0	3064.3	3055.4	3075.0	3057.2
17.5°	2980.3	2985.7	3003.6	3010.7	3008.9
20°	2916.0	2919.6	2941.0	2969.6	2939.2
22.5°	2832.0	2841.0	2851.7	2903.5	2896.4
25°	2746.3	2758.8	2799.9	2839.2	2808.8
27.5°	2656.9	2669.4	2719.5	2748.1	2744.5
30°	2560.4	2573.0	2635.5	2674.8	2656.9
32.5°	2460.4	2481.8	2549.7	2583.7	2549.7
35°	2362.1	2372.8	2438.9	2465.7	2449.7
37.5°	2231.7	2272.8	2338.9	2356.8	2328.2
40°	2133.4	2135.2	2229.9	2229.9	2228.1
42.5°	2006.5	2035.1	2097.7	2131.6	2113.8
45°	1897.6	1906.5	1986.9	2011.9	2006.5
47.5°	1777.8	1813.6	1872.5	1901.1	1886.8
50°	1659.9	1684.9	1745.7	1783.2	1768.9
52.5°	1550.9	1570.6	1633.1	1654.6	1640.3
55°	1418.7	1450.9	1502.7	1524.1	1511.6
57.5°	1304.3	1327.6	1391.9	1399.0	1391.9
60°	1184.6	1211.4	1263.2	1268.6	1254.3
62.5°	1070.3	1088.1	1134.6	1136.4	1120.3
65°	948.8	970.2	1002.4	998.8	982.7
67.5°	829.1	843.4	873.7	861.2	843.4
70°	707.6	720.1	745.1	727.2	711.1
72.5°	589.6	598.6	620.0	593.2	573.6
75°	473.5	477.1	493.1	459.2	430.6
77.5°	359.1	362.7	371.6	337.7	305.5
80°	255.5	255.5	259.1	223.3	201.9
82.5°	160.8	160.8	159.0	132.2	119.7
85°	84.0	82.2	80.4	64.3	59.0
87.5°	30.4	30.4	25.0	23.2	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)