

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: P486052

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-35-120-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: P486052
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-LD4-6STD-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

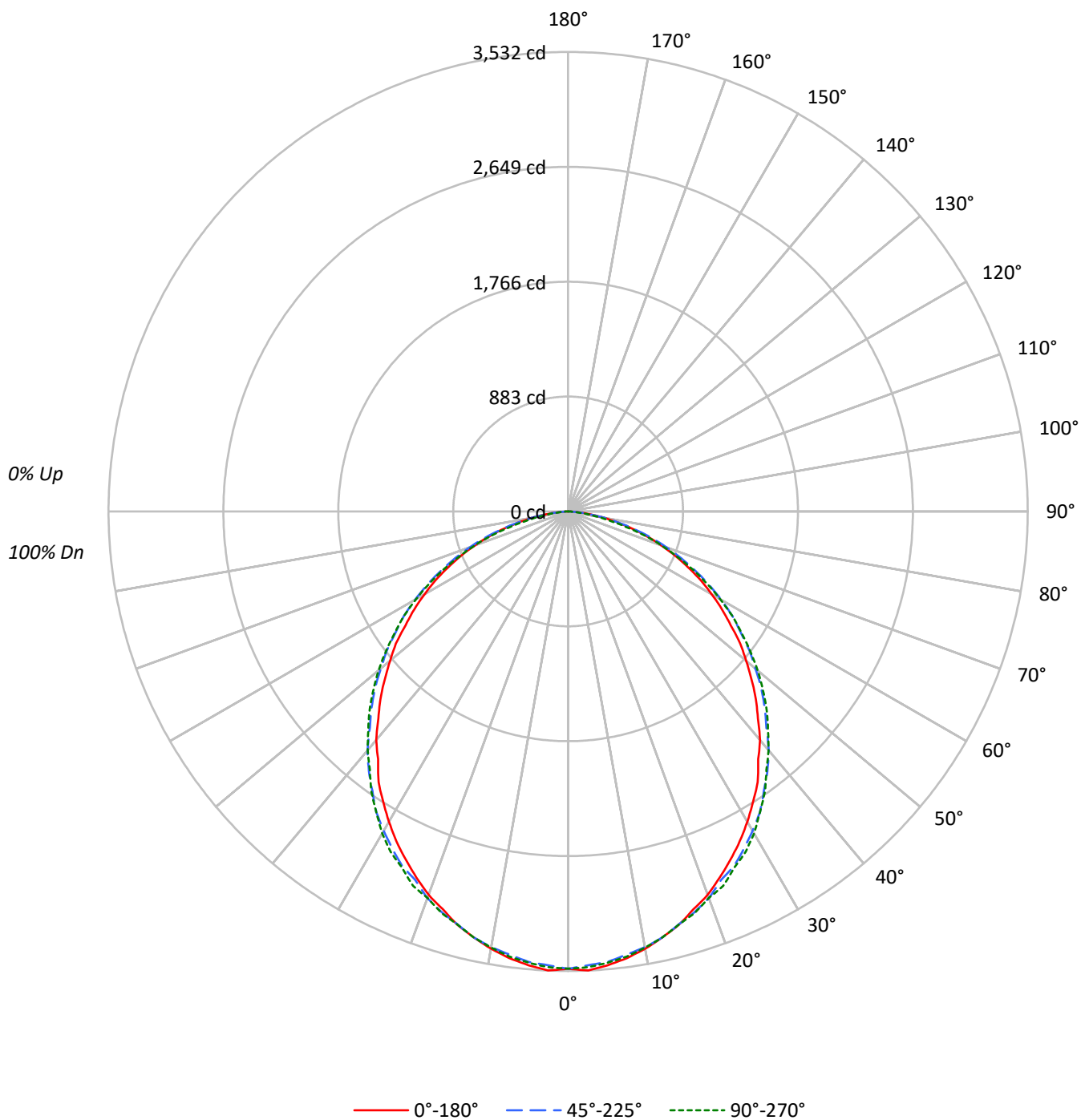
Lumens per Lamp: N/A
Luminaire Lumens: 9027.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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: P486052

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-35-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P486052

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-35-120-EDD-90

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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9457	9457	9457
5°	9457	9390	9405
10°	9325	9293	9304
15°	9165	9154	9159
20°	8980	9057	9052
25°	8769	8940	8969
30°	8556	8807	8878
35°	8345	8616	8654
40°	8059	8424	8417
45°	7766	8131	8212
50°	7473	7859	7964
55°	7158	7582	7627
60°	6857	7311	7260
65°	6497	6864	6729
70°	5987	6305	6017
75°	5294	5514	4815
80°	4259	4317	3364
85°	2788	2671	1958



TEST NUMBER: P486052

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	3.7
10°-20°	928.9	10.3
20°-30°	1382.9	15.3
30°-40°	1627.7	18.0
40°-50°	1632.0	18.1
50°-60°	1431.1	15.9
60°-70°	1046.5	11.6
70°-80°	539.3	6.0
80°-90°	108.2	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°	2642.1	29.3
0°-40°	4269.8	47.3
0°-60°	7333.0	81.2
0°-90°	9027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3514	3514	3514	3514	3514	
5°	3501	3478	3476	3499	3482	331
15°	3290	3295	3286	3307	3288	926
25°	2953	2967	3011	3053	3021	1360
35°	2540	2552	2623	2652	2634	1582
45°	2041	2050	2137	2164	2158	1573
55°	1526	1560	1616	1639	1626	1370
65°	1020	1043	1078	1074	1057	1009
75°	509	513	530	494	463	540
85°	90	88	86	69	63	118
90°	0	0	0	0	0	



TEST NUMBER: P486052

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6STD-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3514.4	3514.4	3514.4	3514.4	3514.4
2.5°	3531.7	3514.4	3491.4	3510.6	3506.7
5°	3501.0	3477.9	3476.0	3499.0	3481.7
7.5°	3462.5	3458.7	3435.6	3460.6	3451.0
10°	3412.6	3408.7	3401.0	3418.3	3404.9
12.5°	3353.0	3349.2	3353.0	3362.6	3353.0
15°	3289.6	3295.4	3285.8	3306.9	3287.7
17.5°	3205.1	3210.8	3230.0	3237.7	3235.8
20°	3135.9	3139.7	3162.8	3193.5	3160.9
22.5°	3045.6	3055.2	3066.7	3122.4	3114.7
25°	2953.3	2966.8	3011.0	3053.3	3020.6
27.5°	2857.3	2870.7	2924.5	2955.3	2951.4
30°	2753.5	2767.0	2834.2	2876.5	2857.3
32.5°	2645.9	2669.0	2742.0	2778.5	2742.0
35°	2540.2	2551.7	2622.8	2651.7	2634.4
37.5°	2399.9	2444.1	2515.2	2534.5	2503.7
40°	2294.3	2296.2	2398.0	2398.0	2396.1
42.5°	2157.8	2188.6	2255.8	2292.3	2273.1
45°	2040.6	2050.2	2136.7	2163.6	2157.8
47.5°	1911.9	1950.3	2013.7	2044.5	2029.1
50°	1785.1	1812.0	1877.3	1917.7	1902.3
52.5°	1667.9	1689.0	1756.2	1779.3	1763.9
55°	1525.7	1560.3	1616.0	1639.0	1625.6
57.5°	1402.7	1427.7	1496.8	1504.5	1496.8
60°	1274.0	1302.8	1358.5	1364.3	1348.9
62.5°	1151.0	1170.2	1220.1	1222.1	1204.8
65°	1020.3	1043.4	1078.0	1074.1	1056.8
67.5°	891.6	906.9	939.6	926.2	906.9
70°	760.9	774.4	801.3	782.0	764.8
72.5°	634.1	643.7	666.8	637.9	616.8
75°	509.2	513.0	530.3	493.8	463.1
77.5°	386.2	390.1	399.7	363.2	328.6
80°	274.8	274.8	278.6	240.2	217.1
82.5°	172.9	172.9	171.0	142.2	128.7
85°	90.3	88.4	86.5	69.2	63.4
87.5°	32.7	32.7	26.9	25.0	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)