

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: P486038

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-30-120-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: P486038
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-LD4-6LO-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

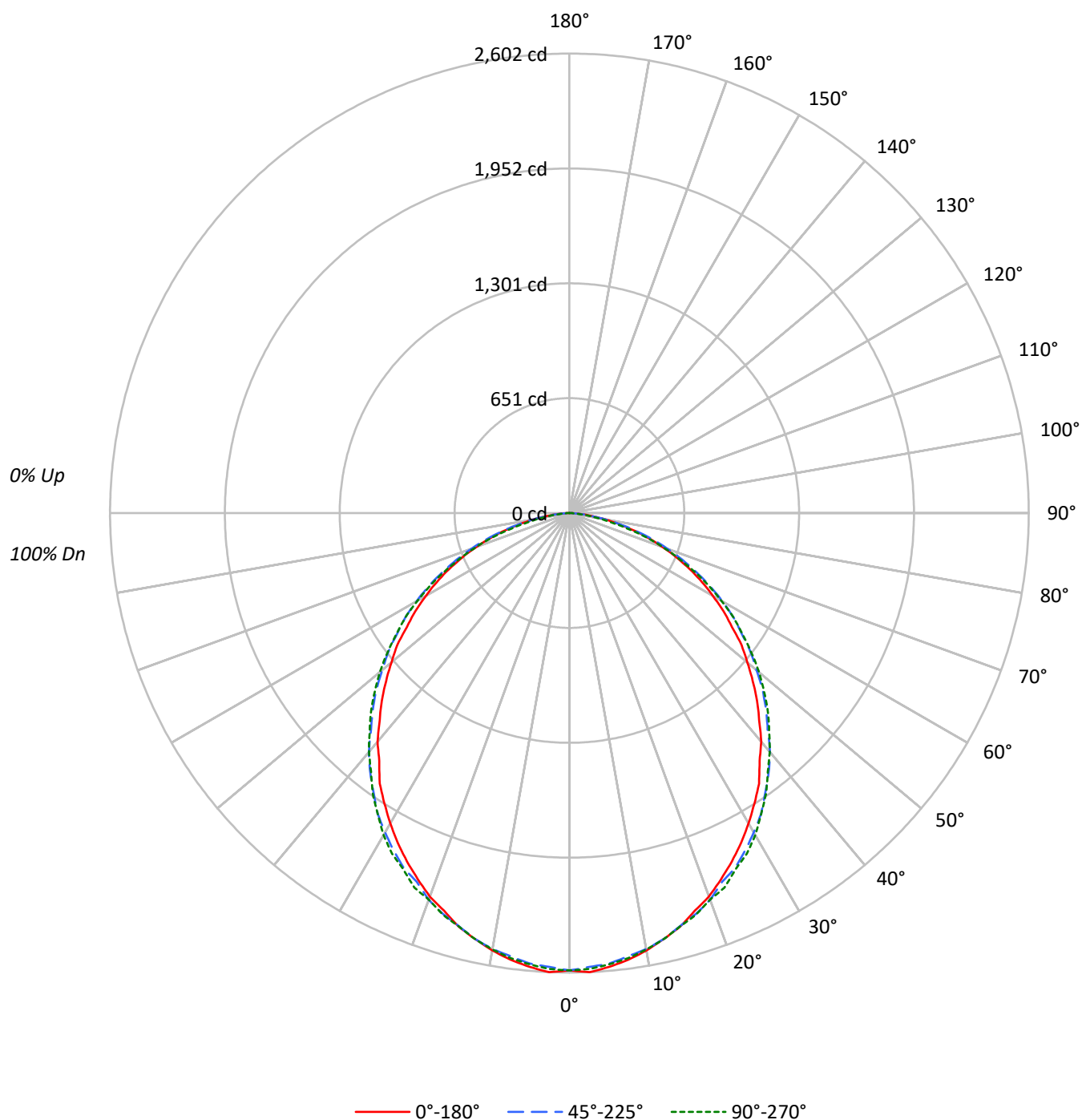
Lumens per Lamp: N/A
Luminaire Lumens: 6651.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P486038

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P486038

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6969	6969	6969
5°	6969	6919	6931
10°	6871	6848	6856
15°	6753	6745	6749
20°	6617	6674	6670
25°	6462	6588	6609
30°	6305	6490	6542
35°	6149	6349	6377
40°	5939	6208	6203
45°	5723	5992	6051
50°	5507	5791	5869
55°	5274	5587	5620
60°	5053	5388	5350
65°	4788	5058	4959
70°	4412	4645	4434
75°	3901	4063	3548
80°	3138	3181	2479
85°	2053	1967	1442



TEST NUMBER: P486038

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	3.7
10°-20°	684.5	10.3
20°-30°	1019.0	15.3
30°-40°	1199.5	18.0
40°-50°	1202.6	18.1
50°-60°	1054.6	15.9
60°-70°	771.1	11.6
70°-80°	397.4	6.0
80°-90°	79.7	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°	1946.9	29.3
0°-40°	3146.4	47.3
0°-60°	5403.6	81.2
0°-90°	6651.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6651.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2580	2563	2561	2578	2566	244
15°	2424	2428	2421	2437	2423	682
25°	2176	2186	2219	2250	2226	1002
35°	1872	1880	1933	1954	1941	1166
45°	1504	1511	1574	1594	1590	1159
55°	1124	1150	1191	1208	1198	1009
65°	752	769	794	792	779	744
75°	375	378	391	364	341	398
85°	66	65	64	51	47	87
90°	0	0	0	0	0	



TEST NUMBER: P486038

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6LO-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.7	2589.7	2589.7	2589.7	2589.7
2.5°	2602.5	2589.7	2572.7	2586.9	2584.1
5°	2579.8	2562.8	2561.4	2578.4	2565.7
7.5°	2551.5	2548.7	2531.7	2550.1	2543.0
10°	2514.7	2511.9	2506.2	2518.9	2509.0
12.5°	2470.8	2468.0	2470.8	2477.9	2470.8
15°	2424.1	2428.3	2421.2	2436.8	2422.7
17.5°	2361.8	2366.0	2380.2	2385.8	2384.4
20°	2310.8	2313.6	2330.6	2353.3	2329.2
22.5°	2244.2	2251.3	2259.8	2300.9	2295.2
25°	2176.3	2186.2	2218.8	2249.9	2225.8
27.5°	2105.5	2115.4	2155.0	2177.7	2174.9
30°	2029.0	2038.9	2088.5	2119.6	2105.5
32.5°	1949.7	1966.7	2020.5	2047.4	2020.5
35°	1871.9	1880.4	1932.7	1954.0	1941.2
37.5°	1768.5	1801.1	1853.5	1867.6	1845.0
40°	1690.6	1692.0	1767.1	1767.1	1765.7
42.5°	1590.1	1612.7	1662.3	1689.2	1675.0
45°	1503.7	1510.8	1574.5	1594.3	1590.1
47.5°	1408.8	1437.2	1483.9	1506.5	1495.2
50°	1315.4	1335.2	1383.4	1413.1	1401.8
52.5°	1229.0	1244.6	1294.2	1311.2	1299.8
55°	1124.2	1149.7	1190.8	1207.8	1197.9
57.5°	1033.6	1052.0	1103.0	1108.7	1103.0
60°	938.8	960.0	1001.1	1005.3	994.0
62.5°	848.1	862.3	899.1	900.5	887.8
65°	751.9	768.8	794.3	791.5	778.8
67.5°	657.0	668.3	692.4	682.5	668.3
70°	560.7	570.6	590.4	576.3	563.5
72.5°	467.3	474.3	491.3	470.1	454.5
75°	375.2	378.1	390.8	363.9	341.2
77.5°	284.6	287.4	294.5	267.6	242.1
80°	202.5	202.5	205.3	177.0	160.0
82.5°	127.4	127.4	126.0	104.8	94.9
85°	66.5	65.1	63.7	51.0	46.7
87.5°	24.1	24.1	19.8	18.4	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)