

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: P487258

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-20-120-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: P487258
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-24-4-INS-A125-LD4-4LO-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

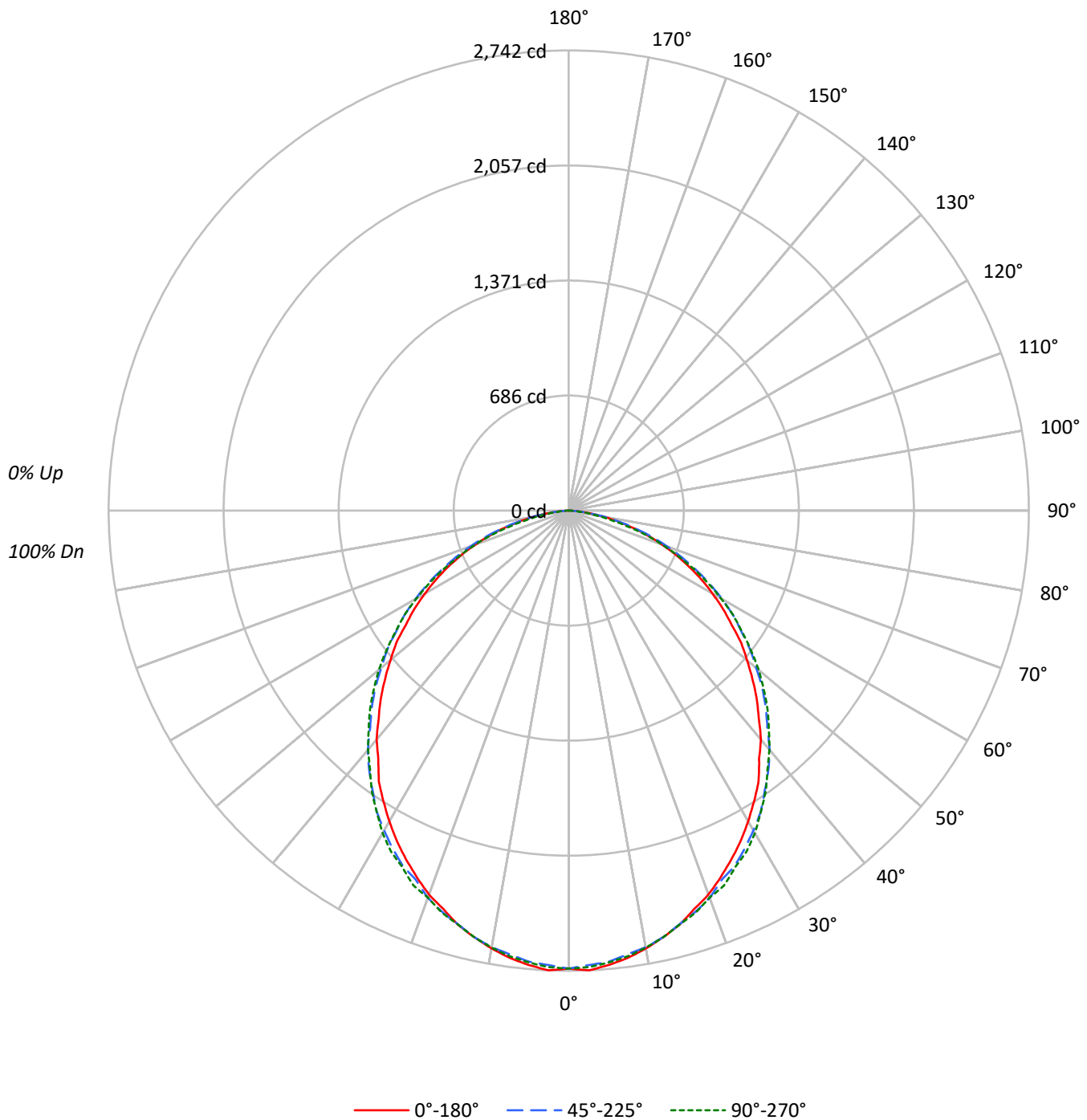
Lumens per Lamp: N/A
Luminaire Lumens: 7009.2 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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: P487258

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487258

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-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
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°	3672	3672	3672
5°	3672	3645	3651
10°	3620	3608	3612
15°	3558	3554	3556
20°	3486	3516	3514
25°	3404	3471	3482
30°	3322	3419	3447
35°	3240	3345	3360
40°	3129	3270	3268
45°	3015	3157	3188
50°	2901	3051	3092
55°	2779	2943	2961
60°	2662	2838	2819
65°	2522	2665	2613
70°	2324	2448	2336
75°	2056	2141	1869
80°	1654	1676	1306
85°	1082	1036	760



TEST NUMBER: P487258

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	3.7
10°-20°	721.2	10.3
20°-30°	1073.8	15.3
30°-40°	1263.9	18.0
40°-50°	1267.2	18.1
50°-60°	1111.2	15.9
60°-70°	812.6	11.6
70°-80°	418.8	6.0
80°-90°	84.0	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°	2051.5	29.3
0°-40°	3315.4	47.3
0°-60°	5693.9	81.2
0°-90°	7009.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7009.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2729	2729	2729	2729	2729	
5°	2718	2700	2699	2717	2704	257
15°	2554	2559	2551	2568	2553	719
25°	2293	2304	2338	2371	2345	1056
35°	1972	1981	2037	2059	2046	1228
45°	1584	1592	1659	1680	1676	1221
55°	1185	1212	1255	1273	1262	1063
65°	792	810	837	834	821	784
75°	395	398	412	383	360	419
85°	70	69	67	54	49	91
90°	0	0	0	0	0	



TEST NUMBER: P487258

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2728.8	2728.8	2728.8	2728.8	2728.8
2.5°	2742.3	2728.8	2710.9	2725.9	2722.9
5°	2718.4	2700.5	2699.0	2716.9	2703.5
7.5°	2688.6	2685.6	2667.7	2687.1	2679.6
10°	2649.8	2646.8	2640.8	2654.2	2643.8
12.5°	2603.5	2600.5	2603.5	2611.0	2603.5
15°	2554.3	2558.8	2551.3	2567.7	2552.8
17.5°	2488.6	2493.1	2508.0	2514.0	2512.5
20°	2434.9	2437.9	2455.8	2479.7	2454.3
22.5°	2364.8	2372.3	2381.2	2424.5	2418.5
25°	2293.2	2303.6	2337.9	2370.8	2345.4
27.5°	2218.6	2229.0	2270.8	2294.7	2291.7
30°	2138.0	2148.5	2200.7	2233.5	2218.6
32.5°	2054.5	2072.4	2129.1	2157.4	2129.1
35°	1972.4	1981.4	2036.6	2058.9	2045.5
37.5°	1863.5	1897.8	1953.0	1967.9	1944.1
40°	1781.4	1782.9	1862.0	1862.0	1860.5
42.5°	1675.5	1699.4	1751.6	1779.9	1765.0
45°	1584.5	1591.9	1659.1	1680.0	1675.5
47.5°	1484.5	1514.4	1563.6	1587.5	1575.5
50°	1386.1	1406.9	1457.7	1489.0	1477.1
52.5°	1295.0	1311.5	1363.7	1381.6	1369.6
55°	1184.6	1211.5	1254.8	1272.7	1262.2
57.5°	1089.1	1108.5	1162.3	1168.2	1162.3
60°	989.2	1011.6	1054.8	1059.3	1047.4
62.5°	893.7	908.6	947.4	948.9	935.5
65°	792.2	810.1	837.0	834.0	820.6
67.5°	692.3	704.2	729.6	719.1	704.2
70°	590.8	601.3	622.2	607.2	593.8
72.5°	492.4	499.8	517.7	495.3	478.9
75°	395.4	398.4	411.8	383.4	359.6
77.5°	299.9	302.9	310.3	282.0	255.1
80°	213.4	213.4	216.3	186.5	168.6
82.5°	134.3	134.3	132.8	110.4	100.0
85°	70.1	68.6	67.1	53.7	49.2
87.5°	25.4	25.4	20.9	19.4	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)