

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: P487184

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-50-120-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: P487184
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-LD4-2HI-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

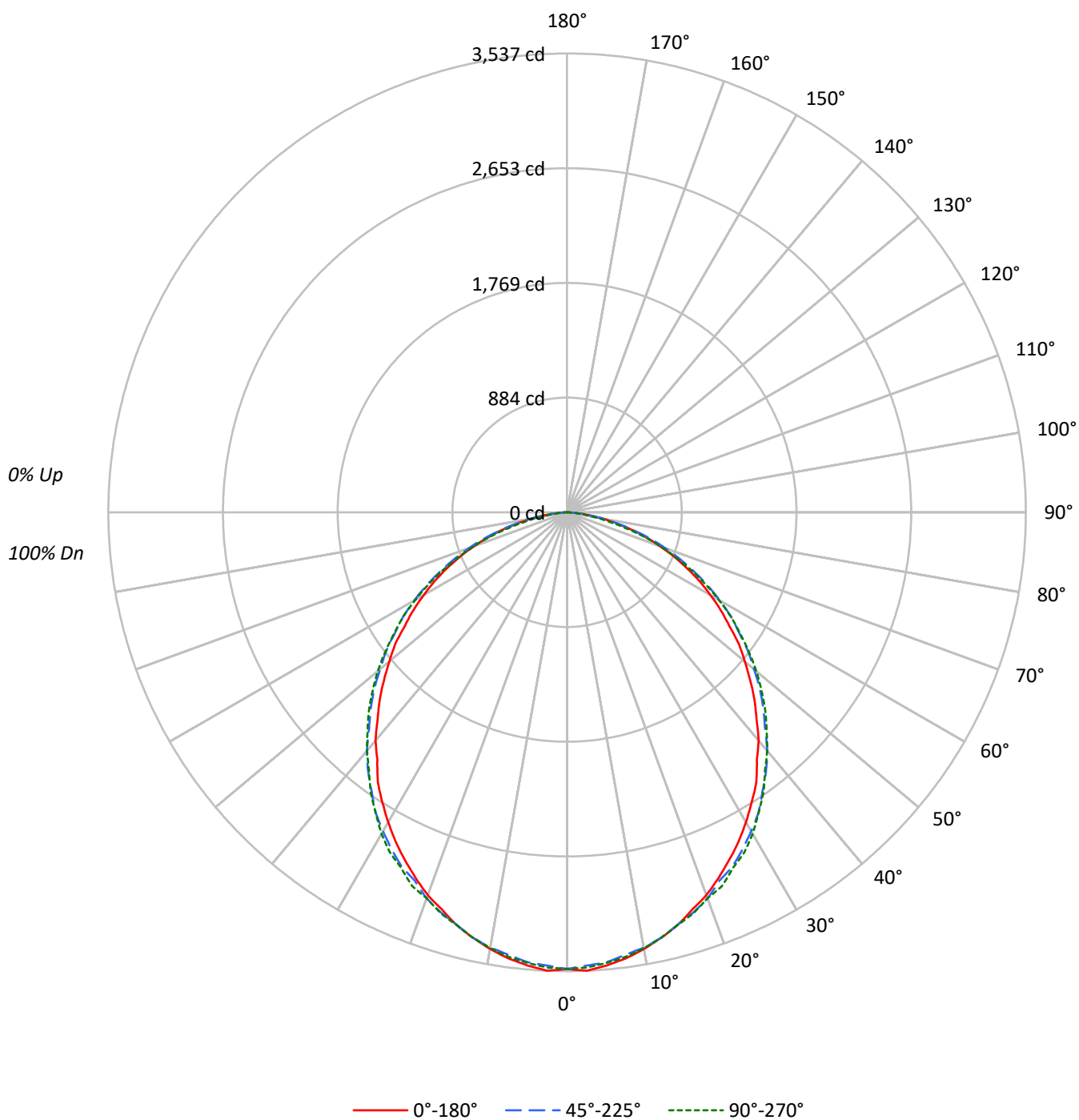
Lumens per Lamp: N/A
Luminaire Lumens: 9040.8 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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: P487184

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2HI-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487184

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2HI-50-120-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°	4736	4736	4736
5°	4736	4702	4710
10°	4670	4654	4659
15°	4589	4584	4587
20°	4497	4535	4533
25°	4391	4477	4491
30°	4284	4410	4446
35°	4179	4315	4334
40°	4036	4218	4215
45°	3889	4072	4112
50°	3742	3936	3988
55°	3584	3796	3819
60°	3433	3661	3636
65°	3253	3437	3370
70°	2998	3157	3013
75°	2651	2761	2411
80°	2132	2162	1685
85°	1396	1337	980



TEST NUMBER: P487184

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2HI-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.8	3.7
10°-20°	930.3	10.3
20°-30°	1385.0	15.3
30°-40°	1630.2	18.0
40°-50°	1634.5	18.1
50°-60°	1433.3	15.9
60°-70°	1048.1	11.6
70°-80°	540.1	6.0
80°-90°	108.4	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°	2646.1	29.3
0°-40°	4276.3	47.3
0°-60°	7344.2	81.2
0°-90°	9040.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9040.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3520	3520	3520	3520	3520	
5°	3506	3483	3481	3504	3487	332
15°	3295	3300	3291	3312	3293	927
25°	2958	2971	3016	3058	3025	1362
35°	2544	2556	2627	2656	2638	1584
45°	2044	2053	2140	2167	2161	1575
55°	1528	1563	1618	1642	1628	1372
65°	1022	1045	1080	1076	1058	1011
75°	510	514	531	495	464	540
85°	90	88	87	69	64	118
90°	0	0	0	0	0	



TEST NUMBER: P487184

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2HI-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3519.8	3519.8	3519.8	3519.8	3519.8
2.5°	3537.1	3519.8	3496.7	3515.9	3512.1
5°	3506.3	3483.2	3481.3	3504.4	3487.1
7.5°	3467.8	3464.0	3440.9	3465.9	3456.3
10°	3417.8	3413.9	3406.2	3423.6	3410.1
12.5°	3358.1	3354.3	3358.1	3367.8	3358.1
15°	3294.6	3300.4	3290.8	3311.9	3292.7
17.5°	3210.0	3215.7	3235.0	3242.7	3240.7
20°	3140.7	3144.5	3167.6	3198.4	3165.7
22.5°	3050.2	3059.8	3071.4	3127.2	3119.5
25°	2957.9	2971.3	3015.6	3057.9	3025.2
27.5°	2861.6	2875.1	2929.0	2959.8	2955.9
30°	2757.7	2771.2	2838.5	2880.9	2861.6
32.5°	2649.9	2673.0	2746.2	2782.7	2746.2
35°	2544.1	2555.6	2626.8	2655.7	2638.4
37.5°	2403.6	2447.9	2519.1	2538.3	2507.5
40°	2297.8	2299.7	2401.7	2401.7	2399.8
42.5°	2161.1	2191.9	2259.3	2295.8	2276.6
45°	2043.7	2053.4	2140.0	2166.9	2161.1
47.5°	1914.8	1953.3	2016.8	2047.6	2032.2
50°	1787.8	1814.7	1880.2	1920.6	1905.2
52.5°	1670.4	1691.6	1758.9	1782.0	1766.6
55°	1528.0	1562.6	1618.4	1641.5	1628.1
57.5°	1404.8	1429.9	1499.1	1506.8	1499.1
60°	1275.9	1304.8	1360.6	1366.3	1351.0
62.5°	1152.7	1172.0	1222.0	1223.9	1206.6
65°	1021.9	1045.0	1079.6	1075.8	1058.4
67.5°	892.9	908.3	941.0	927.6	908.3
70°	762.1	775.5	802.5	783.2	765.9
72.5°	635.1	644.7	667.8	638.9	617.7
75°	510.0	513.8	531.1	494.6	463.8
77.5°	386.8	390.7	400.3	363.7	329.1
80°	275.2	275.2	279.0	240.6	217.5
82.5°	173.2	173.2	171.3	142.4	128.9
85°	90.4	88.5	86.6	69.3	63.5
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)