

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: P487201

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-27-120-EDD**

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: P487201
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-LD4-2STD-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

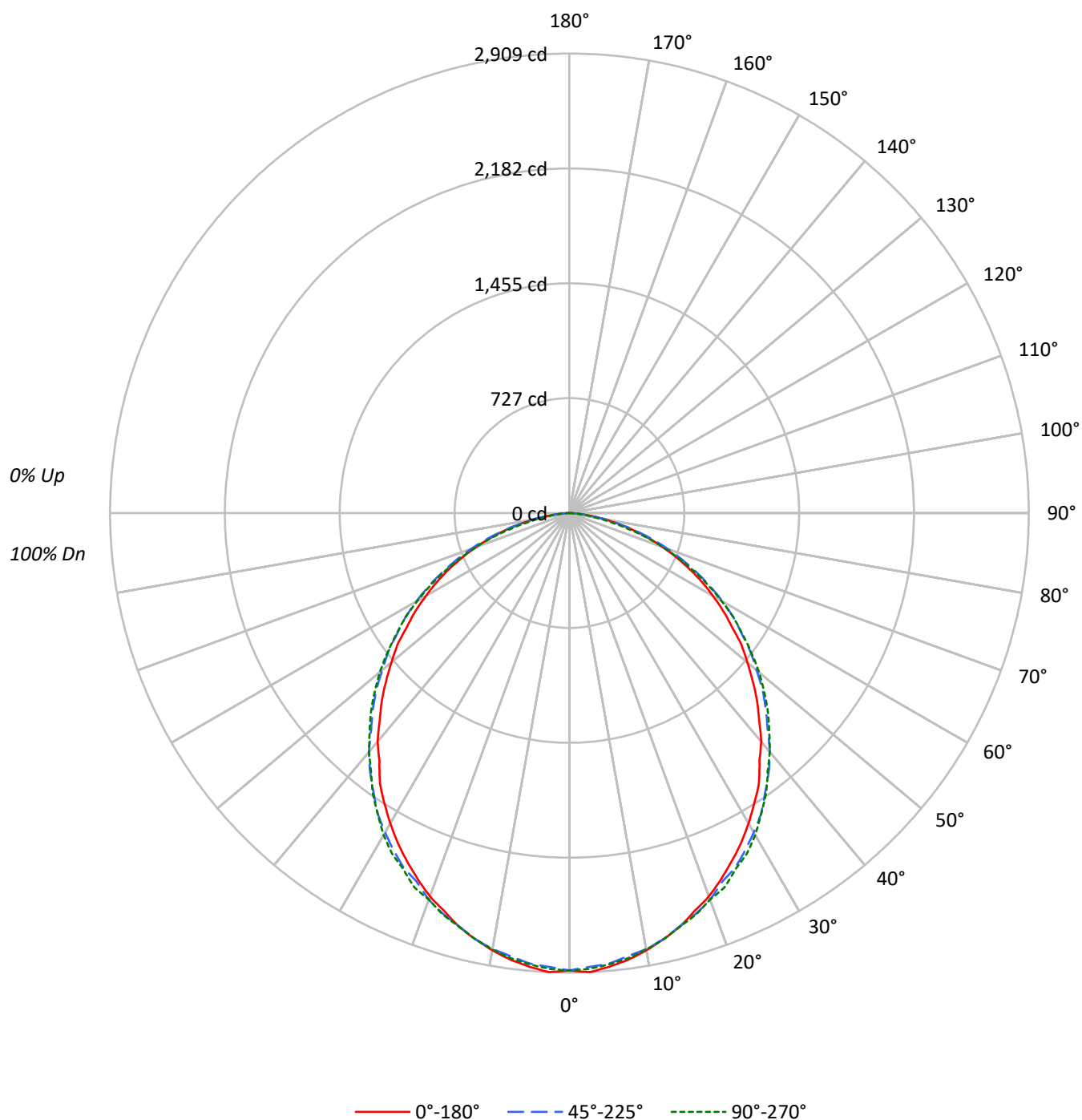
Lumens per Lamp: N/A
Luminaire Lumens: 7435.9 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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: P487201

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2STD-27-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P487201

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2STD-27-120-EDD

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°	3895	3895	3895
5°	3895	3867	3874
10°	3841	3828	3832
15°	3775	3770	3772
20°	3699	3730	3728
25°	3612	3682	3694
30°	3524	3627	3657
35°	3437	3549	3564
40°	3319	3469	3467
45°	3198	3349	3382
50°	3078	3237	3280
55°	2948	3122	3141
60°	2824	3011	2990
65°	2676	2827	2771
70°	2466	2596	2478
75°	2180	2271	1983
80°	1753	1778	1386
85°	1149	1099	806



TEST NUMBER: P487201

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2STD-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	3.7
10°-20°	765.1	10.3
20°-30°	1139.1	15.3
30°-40°	1340.8	18.0
40°-50°	1344.4	18.1
50°-60°	1178.9	15.9
60°-70°	862.0	11.6
70°-80°	444.3	6.0
80°-90°	89.1	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°	2176.4	29.3
0°-40°	3517.2	47.3
0°-60°	6040.5	81.2
0°-90°	7435.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7435.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2895	2895	2895	2895	2895	
5°	2884	2865	2863	2882	2868	273
15°	2710	2714	2707	2724	2708	763
25°	2433	2444	2480	2515	2488	1121
35°	2092	2102	2160	2184	2170	1303
45°	1681	1689	1760	1782	1778	1295
55°	1257	1285	1331	1350	1339	1128
65°	840	860	888	885	870	831
75°	419	423	437	407	382	444
85°	74	73	71	57	52	97
90°	0	0	0	0	0	



TEST NUMBER: P487201

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-2STD-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2895.0	2895.0	2895.0	2895.0	2895.0
2.5°	2909.2	2895.0	2876.0	2891.8	2888.6
5°	2883.9	2864.9	2863.3	2882.3	2868.1
7.5°	2852.2	2849.1	2830.1	2850.6	2842.7
10°	2811.1	2807.9	2801.6	2815.8	2804.7
12.5°	2762.0	2758.8	2762.0	2769.9	2762.0
15°	2709.8	2714.5	2706.6	2724.0	2708.2
17.5°	2640.1	2644.9	2660.7	2667.0	2665.5
20°	2583.1	2586.3	2605.3	2630.6	2603.7
22.5°	2508.8	2516.7	2526.2	2572.1	2565.7
25°	2432.8	2443.9	2480.3	2515.1	2488.2
27.5°	2353.6	2364.7	2409.0	2434.4	2431.2
30°	2268.2	2279.2	2334.6	2369.5	2353.6
32.5°	2179.5	2198.5	2258.7	2288.7	2258.7
35°	2092.5	2102.0	2160.5	2184.3	2170.0
37.5°	1976.9	2013.3	2071.9	2087.7	2062.4
40°	1889.9	1891.5	1975.3	1975.3	1973.8
42.5°	1777.5	1802.8	1858.2	1888.3	1872.5
45°	1680.9	1688.9	1760.1	1782.2	1777.5
47.5°	1574.9	1606.6	1658.8	1684.1	1671.4
50°	1470.4	1492.6	1546.4	1579.6	1567.0
52.5°	1373.9	1391.3	1446.7	1465.7	1453.0
55°	1256.8	1285.2	1331.1	1350.1	1339.1
57.5°	1155.5	1176.0	1233.0	1239.3	1233.0
60°	1049.4	1073.1	1119.0	1123.8	1111.1
62.5°	948.1	963.9	1005.1	1006.7	992.4
65°	840.5	859.5	888.0	884.8	870.5
67.5°	734.4	747.1	774.0	762.9	747.1
70°	626.8	637.9	660.0	644.2	630.0
72.5°	522.3	530.2	549.2	525.5	508.1
75°	419.4	422.6	436.9	406.8	381.5
77.5°	318.1	321.3	329.2	299.2	270.7
80°	226.3	226.3	229.5	197.9	178.9
82.5°	142.5	142.5	140.9	117.1	106.0
85°	74.4	72.8	71.2	57.0	52.2
87.5°	26.9	26.9	22.2	20.6	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)