

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: P487162

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1STD-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: P487162
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-LD4-1STD-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

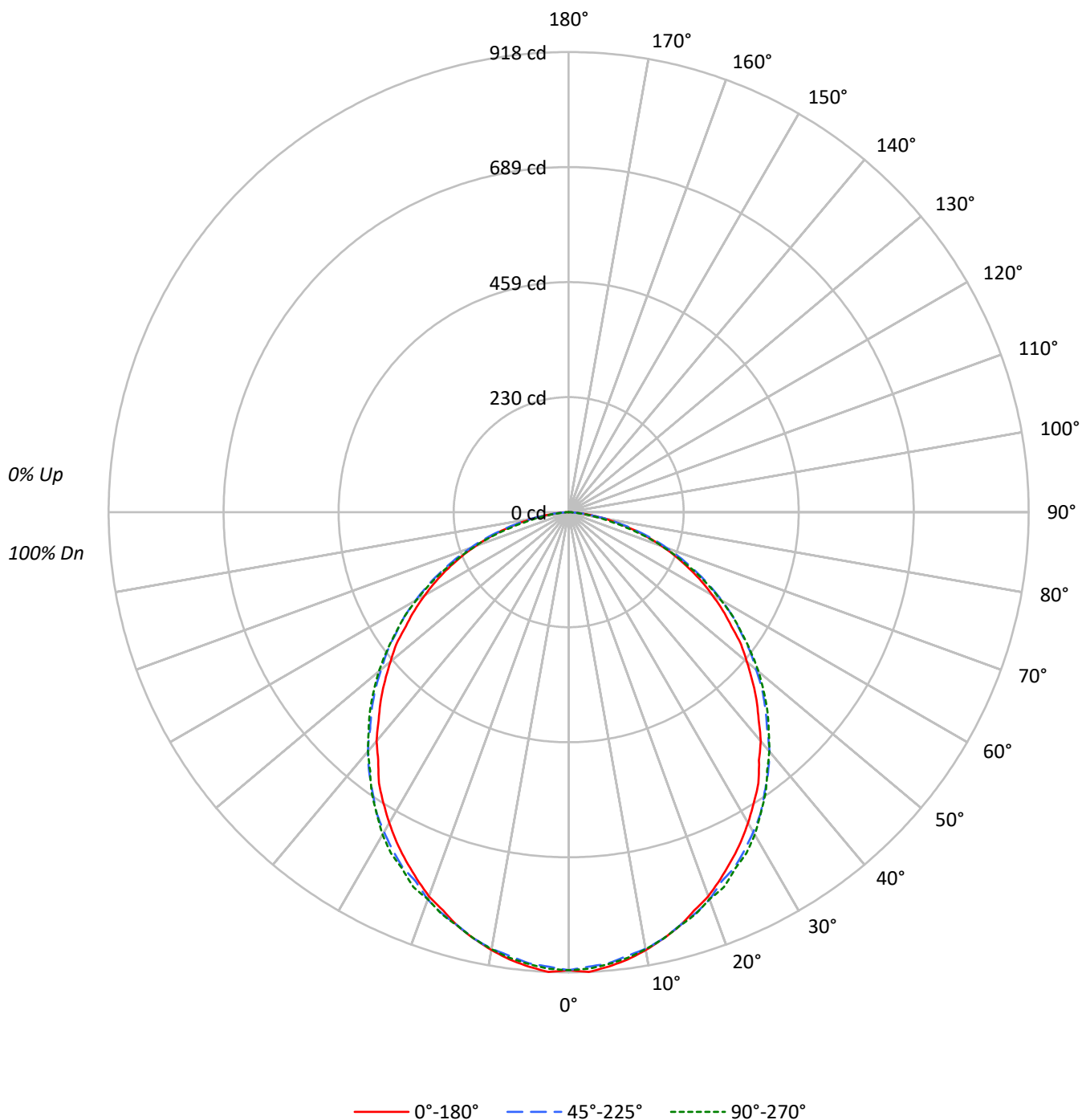
Lumens per Lamp: N/A
Luminaire Lumens: 2346.6 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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: P487162

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487162

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-20-120-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°	1229	1229	1229
5°	1229	1220	1222
10°	1212	1208	1209
15°	1191	1190	1190
20°	1167	1177	1177
25°	1140	1162	1166
30°	1112	1145	1154
35°	1085	1120	1125
40°	1048	1095	1094
45°	1009	1057	1067
50°	971	1021	1035
55°	930	985	991
60°	891	950	943
65°	844	892	875
70°	778	819	782
75°	688	717	626
80°	553	561	437
85°	363	347	255



TEST NUMBER: P487162

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.7
10°-20°	241.5	10.3
20°-30°	359.5	15.3
30°-40°	423.1	18.0
40°-50°	424.2	18.1
50°-60°	372.0	15.9
60°-70°	272.0	11.6
70°-80°	140.2	6.0
80°-90°	28.1	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°	686.8	29.3
0°-40°	1110.0	47.3
0°-60°	1906.2	81.2
0°-90°	2346.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2346.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	910	904	904	910	905	86
15°	855	857	854	860	855	241
25°	768	771	783	794	785	354
35°	660	663	682	689	685	411
45°	530	533	555	562	561	409
55°	397	406	420	426	423	356
65°	265	271	280	279	275	262
75°	132	133	138	128	120	140
85°	24	23	22	18	16	31
90°	0	0	0	0	0	



TEST NUMBER: P487162

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1STD-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.6	913.6	913.6	913.6	913.6
2.5°	918.1	913.6	907.6	912.6	911.6
5°	910.1	904.1	903.6	909.6	905.1
7.5°	900.1	899.1	893.1	899.6	897.1
10°	887.1	886.1	884.1	888.6	885.1
12.5°	871.6	870.6	871.6	874.1	871.6
15°	855.1	856.6	854.1	859.6	854.6
17.5°	833.2	834.7	839.7	841.7	841.2
20°	815.2	816.2	822.2	830.2	821.7
22.5°	791.7	794.2	797.2	811.7	809.7
25°	767.7	771.2	782.7	793.7	785.2
27.5°	742.8	746.3	760.2	768.2	767.2
30°	715.8	719.3	736.8	747.8	742.8
32.5°	687.8	693.8	712.8	722.3	712.8
35°	660.3	663.3	681.8	689.3	684.8
37.5°	623.9	635.4	653.8	658.8	650.8
40°	596.4	596.9	623.4	623.4	622.9
42.5°	560.9	568.9	586.4	595.9	590.9
45°	530.5	533.0	555.4	562.4	560.9
47.5°	497.0	507.0	523.5	531.5	527.5
50°	464.0	471.0	488.0	498.5	494.5
52.5°	433.6	439.1	456.5	462.5	458.5
55°	396.6	405.6	420.1	426.1	422.6
57.5°	364.6	371.1	389.1	391.1	389.1
60°	331.2	338.7	353.1	354.6	350.6
62.5°	299.2	304.2	317.2	317.7	313.2
65°	265.2	271.2	280.2	279.2	274.7
67.5°	231.8	235.8	244.3	240.8	235.8
70°	197.8	201.3	208.3	203.3	198.8
72.5°	164.8	167.3	173.3	165.8	160.3
75°	132.4	133.4	137.9	128.4	120.4
77.5°	100.4	101.4	103.9	94.4	85.4
80°	71.4	71.4	72.4	62.4	56.4
82.5°	45.0	45.0	44.5	37.0	33.5
85°	23.5	23.0	22.5	18.0	16.5
87.5°	8.5	8.5	7.0	6.5	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)