

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: P487158

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-40-120-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: P487158
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-LD4-1LO-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

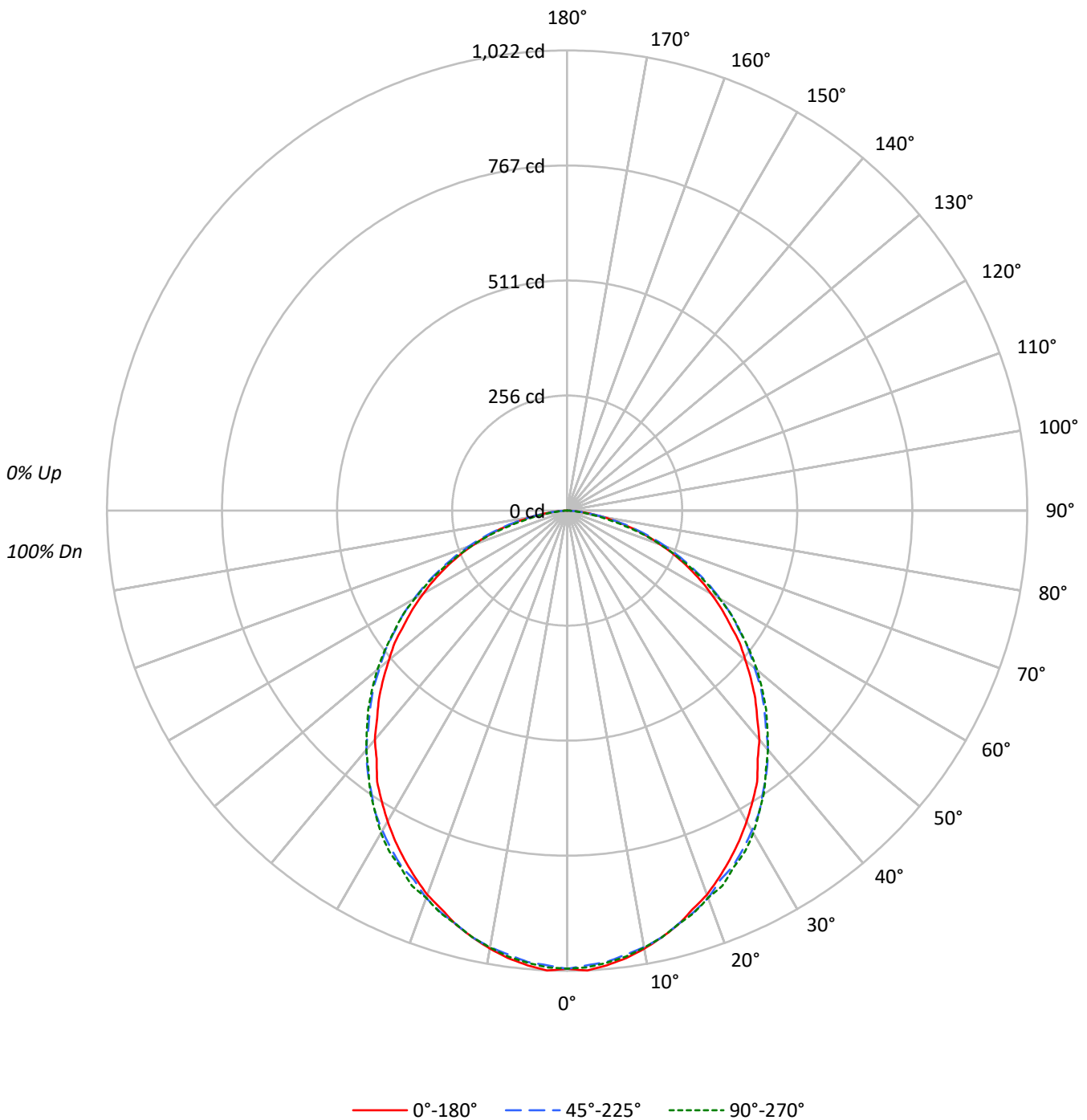
Lumens per Lamp: N/A
Luminaire Lumens: 2613.5 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P487158

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1LO-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487158

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1LO-40-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1369	1369	1369
5°	1369	1359	1361
10°	1350	1345	1347
15°	1327	1325	1326
20°	1300	1311	1310
25°	1269	1294	1298
30°	1239	1275	1285
35°	1208	1247	1253
40°	1167	1219	1218
45°	1124	1177	1189
50°	1082	1138	1153
55°	1036	1098	1104
60°	992	1058	1051
65°	940	994	974
70°	867	913	871
75°	766	798	697
80°	617	625	487
85°	403	386	284



TEST NUMBER: P487158

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1LO-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.7
10°-20°	268.9	10.3
20°-30°	400.4	15.3
30°-40°	471.3	18.0
40°-50°	472.5	18.1
50°-60°	414.3	15.9
60°-70°	303.0	11.6
70°-80°	156.1	6.0
80°-90°	31.3	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°	764.9	29.3
0°-40°	1236.2	47.3
0°-60°	2123.0	81.2
0°-90°	2613.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1014	1007	1006	1013	1008	96
15°	952	954	951	957	952	268
25°	855	859	872	884	874	394
35°	735	739	759	768	763	458
45°	591	594	619	626	625	455
55°	442	452	468	474	471	396
65°	295	302	312	311	306	292
75°	147	148	154	143	134	156
85°	26	26	25	20	18	34
90°	0	0	0	0	0	



TEST NUMBER: P487158

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-1LO-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.5	1017.5	1017.5	1017.5	1017.5
2.5°	1022.5	1017.5	1010.8	1016.4	1015.3
5°	1013.6	1006.9	1006.4	1013.0	1008.0
7.5°	1002.5	1001.4	994.7	1001.9	999.1
10°	988.0	986.9	984.7	989.7	985.8
12.5°	970.8	969.7	970.8	973.5	970.8
15°	952.4	954.1	951.3	957.4	951.8
17.5°	927.9	929.6	935.2	937.4	936.8
20°	907.9	909.0	915.7	924.6	915.1
22.5°	881.8	884.5	887.9	904.0	901.8
25°	855.1	858.9	871.7	884.0	874.5
27.5°	827.2	831.1	846.7	855.6	854.5
30°	797.2	801.1	820.6	832.8	827.2
32.5°	766.0	772.7	793.9	804.4	793.9
35°	735.4	738.8	759.4	767.7	762.7
37.5°	694.8	707.6	728.2	733.8	724.9
40°	664.2	664.8	694.3	694.3	693.7
42.5°	624.7	633.6	653.1	663.7	658.1
45°	590.8	593.6	618.6	626.4	624.7
47.5°	553.5	564.7	583.0	591.9	587.5
50°	516.8	524.6	543.5	555.2	550.7
52.5°	482.9	489.0	508.5	515.1	510.7
55°	441.7	451.7	467.9	474.5	470.6
57.5°	406.1	413.3	433.4	435.6	433.4
60°	368.8	377.2	393.3	395.0	390.5
62.5°	333.2	338.8	353.3	353.8	348.8
65°	295.4	302.1	312.1	311.0	306.0
67.5°	258.1	262.6	272.0	268.1	262.6
70°	220.3	224.2	232.0	226.4	221.4
72.5°	183.6	186.4	193.0	184.7	178.6
75°	147.4	148.5	153.5	143.0	134.1
77.5°	111.8	112.9	115.7	105.1	95.1
80°	79.6	79.6	80.7	69.5	62.9
82.5°	50.1	50.1	49.5	41.2	37.3
85°	26.1	25.6	25.0	20.0	18.4
87.5°	9.5	9.5	7.8	7.2	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)