Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P487241

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-35-120-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.

Report Generated By E9911574 / USPTCWHP6081592

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P487241
	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-LD4-3STD-35-120-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:	12372.5 lumens
Efficiency:	N/A
Efficacy:	123.8 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

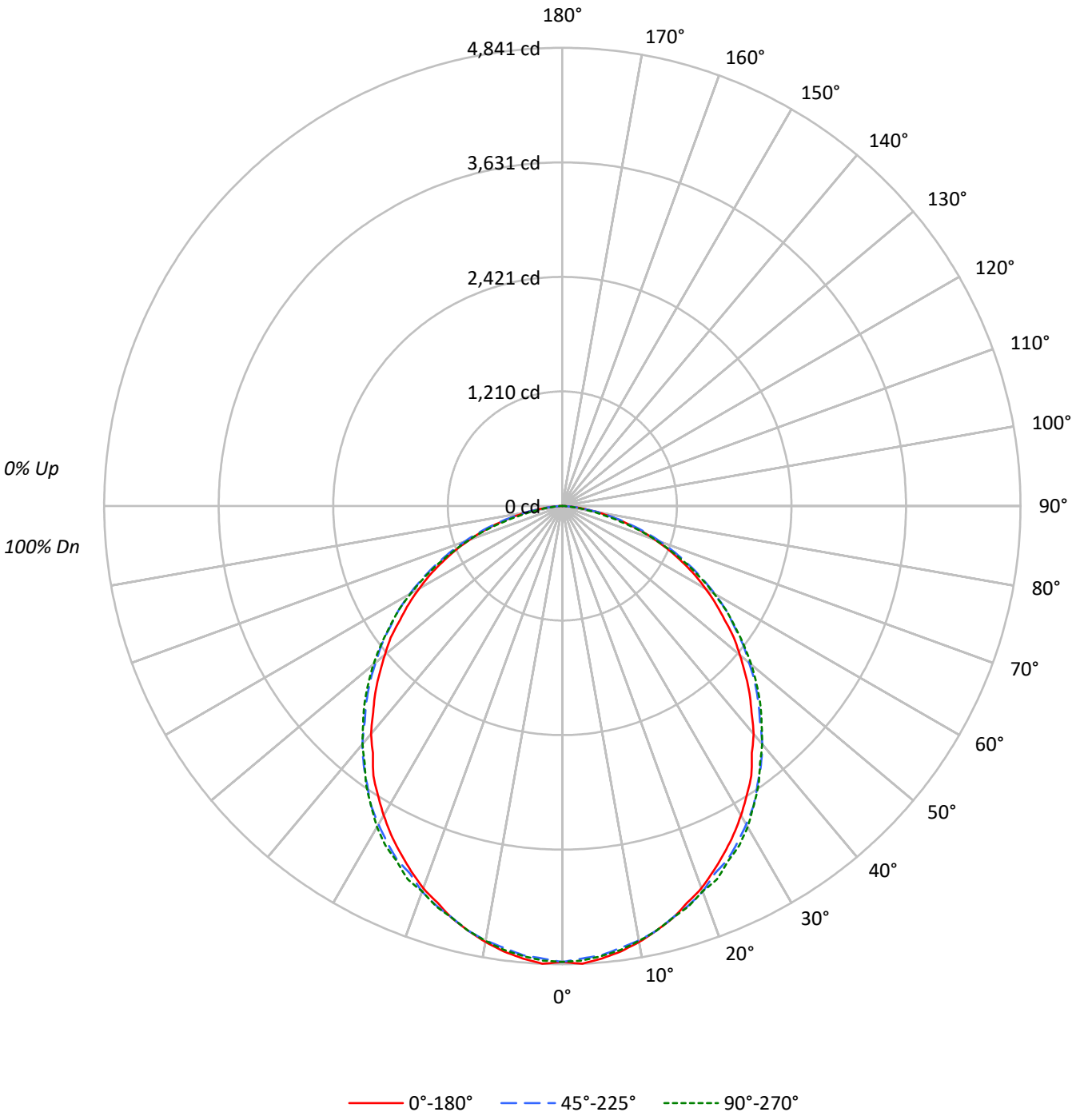
Input Watts (W):	99.9
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P487241
CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P487241
CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-35-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	6481	6481	6481
5°	6481	6435	6445
10°	6390	6369	6376
15°	6281	6273	6277
20°	6154	6207	6203
25°	6009	6127	6146
30°	5863	6035	6084
35°	5719	5905	5931
40°	5523	5773	5768
45°	5322	5573	5628
50°	5121	5386	5458
55°	4905	5196	5226
60°	4699	5011	4975
65°	4452	4704	4612
70°	4103	4320	4124
75°	3628	3779	3300
80°	2918	2959	2306
85°	1911	1829	1342

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P487241
CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.8	3.7
10°-20°	1273.1	10.3
20°-30°	1895.4	15.3
30°-40°	2231.0	18.0
40°-50°	2236.9	18.1
50°-60°	1961.5	15.9
60°-70°	1434.3	11.6
70°-80°	739.2	6.0
80°-90°	148.3	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°	3621.3	29.3
0°-40°	5852.3	47.3
0°-60°	10050.7	81.2
0°-90°	12372.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12372.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4817	4817	4817	4817	4817	
5°	4798	4767	4764	4796	4772	454
15°	4509	4517	4504	4532	4506	1269
25°	4048	4066	4127	4185	4140	1865
35°	3482	3497	3595	3634	3611	2168
45°	2797	2810	2929	2966	2958	2155
55°	2091	2138	2215	2246	2228	1877
65°	1398	1430	1478	1472	1448	1383
75°	698	703	727	677	635	740
85°	124	121	118	95	87	161
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P487241
CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*4816.9*	4816.9	4816.9	4816.9	4816.9
2.5°	*4840.6*	*4816.9*	*4785.3*	*4811.6*	*4806.4*
5°	*4798.5*	4766.9	4764.2	4795.8	4772.1
7.5°	*4745.8*	4740.5	4708.9	4743.2	4730.0
10°	*4677.3*	4672.0	4661.5	4685.2	4666.8
12.5°	*4595.7*	4590.4	4595.7	4608.8	4595.7
15°	*4508.8*	4516.7	4503.5	4532.5	4506.1
17.5°	*4392.9*	4400.8	4427.1	4437.7	4435.0
20°	*4298.1*	4303.3	4334.9	4377.1	4332.3
22.5°	*4174.3*	4187.5	4203.3	4279.6	4269.1
25°	*4047.9*	4066.3	4126.9	4184.8	4140.1
27.5°	*3916.2*	3934.6	4008.4	4050.5	4045.2
30°	*3774.0*	3792.4	3884.6	3942.5	3916.2
32.5°	*3626.5*	3658.1	3758.2	3808.2	3758.2
35°	*3481.6*	3497.4	3594.9	3634.4	3610.7
37.5°	*3289.4*	3350.0	3447.4	3473.7	3431.6
40°	*3144.5*	3147.2	3286.8	3286.8	3284.1
42.5°	*2957.6*	2999.7	3091.9	3141.9	3115.6
45°	*2796.9*	2810.1	2928.6	2965.5	2957.6
47.5°	*2620.5*	2673.1	2760.0	2802.2	2781.1
50°	*2446.6*	2483.5	2573.0	2628.4	2607.3
52.5°	*2286.0*	2315.0	2407.1	2438.7	2417.7
55°	*2091.1*	2138.5	2214.9	2246.5	2228.0
57.5°	*1922.5*	1956.8	2051.6	2062.1	2051.6
60°	*1746.1*	1785.6	1862.0	1869.9	1848.8
62.5°	*1577.5*	1603.9	1672.3	1675.0	1651.3
65°	*1398.5*	1430.1	1477.5	1472.2	1448.5
67.5°	*1222.0*	1243.1	1287.8	1269.4	1243.1
70°	*1042.9*	1061.3	1098.2	1071.9	1048.2
72.5°	*869.1*	882.3	913.9	874.4	845.4
75°	*697.9*	703.2	726.9	676.8	634.7
77.5°	*529.4*	534.6	547.8	497.8	450.3
80°	*376.6*	376.6	381.9	329.2	297.6
82.5°	*237.0*	237.0	234.4	194.9	176.5
85°	*123.8*	121.1	118.5	94.8	86.9
87.5°	*44.8*	44.8	36.9	34.2	36.9
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)