

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: P487150

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-1LO-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: P487150
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-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

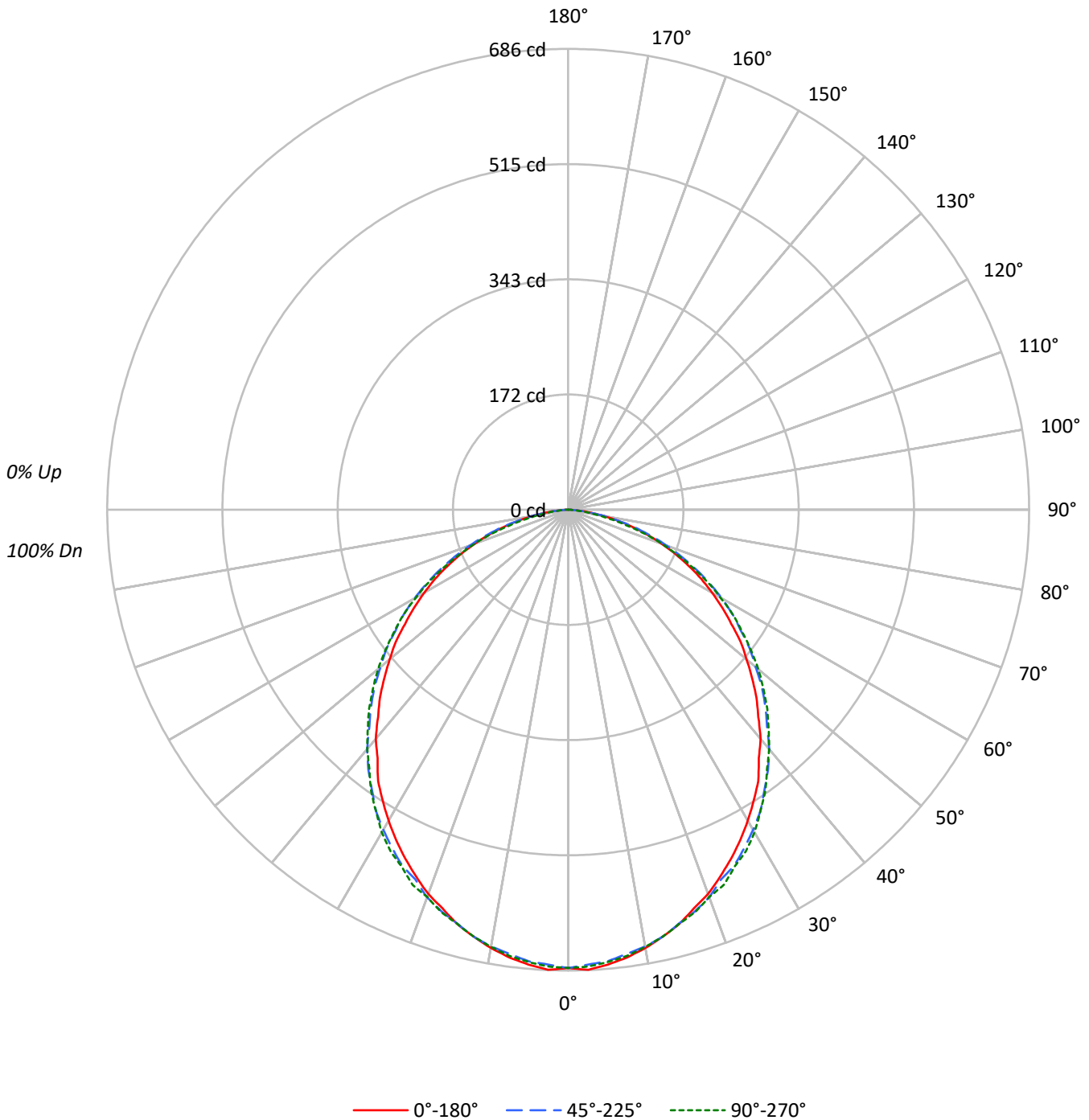
Lumens per Lamp: N/A
Luminaire Lumens: 1752.3 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	918	918	918
5°	918	911	913
10°	905	902	903
15°	890	888	889
20°	872	879	879
25°	851	868	870
30°	830	855	862
35°	810	836	840
40°	782	818	817
45°	754	789	797
50°	725	763	773
55°	695	736	740
60°	665	710	704
65°	631	666	653
70°	581	612	584
75°	514	535	467
80°	413	419	326
85°	270	259	190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.7
10°-20°	180.3	10.3
20°-30°	268.4	15.3
30°-40°	316.0	18.0
40°-50°	316.8	18.1
50°-60°	277.8	15.9
60°-70°	203.2	11.6
70°-80°	104.7	6.0
80°-90°	21.0	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°	512.9	29.3
0°-40°	828.9	47.3
0°-60°	1423.5	81.2
0°-90°	1752.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	680	675	675	679	676	64
15°	639	640	638	642	638	180
25°	573	576	584	593	586	264
35°	493	495	509	515	511	307
45°	396	398	415	420	419	305
55°	296	303	314	318	316	266
65°	198	202	209	208	205	196
75°	99	100	103	96	90	105
85°	18	17	17	13	12	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	682.2	682.2	682.2	682.2	682.2
2.5°	685.6	682.2	677.7	681.5	680.7
5°	679.6	675.1	674.7	679.2	675.9
7.5°	672.1	671.4	666.9	671.8	669.9
10°	662.4	661.7	660.2	663.6	660.9
12.5°	650.9	650.1	650.9	652.7	650.9
15°	638.6	639.7	637.8	641.9	638.2
17.5°	622.2	623.3	627.0	628.5	628.1
20°	608.7	609.5	614.0	619.9	613.6
22.5°	591.2	593.1	595.3	606.1	604.6
25°	573.3	575.9	584.5	592.7	586.3
27.5°	554.6	557.3	567.7	573.7	572.9
30°	534.5	537.1	550.2	558.4	554.6
32.5°	513.6	518.1	532.3	539.4	532.3
35°	493.1	495.3	509.1	514.7	511.4
37.5°	465.9	474.5	488.3	492.0	486.0
40°	445.4	445.7	465.5	465.5	465.1
42.5°	418.9	424.8	437.9	445.0	441.3
45°	396.1	398.0	414.8	420.0	418.9
47.5°	371.1	378.6	390.9	396.9	393.9
50°	346.5	351.7	364.4	372.3	369.3
52.5°	323.8	327.9	340.9	345.4	342.4
55°	296.2	302.9	313.7	318.2	315.6
57.5°	272.3	277.1	290.6	292.1	290.6
60°	247.3	252.9	263.7	264.8	261.8
62.5°	223.4	227.2	236.9	237.2	233.9
65°	198.1	202.5	209.3	208.5	205.1
67.5°	173.1	176.1	182.4	179.8	176.1
70°	147.7	150.3	155.5	151.8	148.5
72.5°	123.1	125.0	129.4	123.8	119.7
75°	98.8	99.6	102.9	95.9	89.9
77.5°	75.0	75.7	77.6	70.5	63.8
80°	53.3	53.3	54.1	46.6	42.1
82.5°	33.6	33.6	33.2	27.6	25.0
85°	17.5	17.2	16.8	13.4	12.3
87.5°	6.3	6.3	5.2	4.8	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)