

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: P486028

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-35-120-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: P486028
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-24-2-INS-A125-LD4-6HI-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

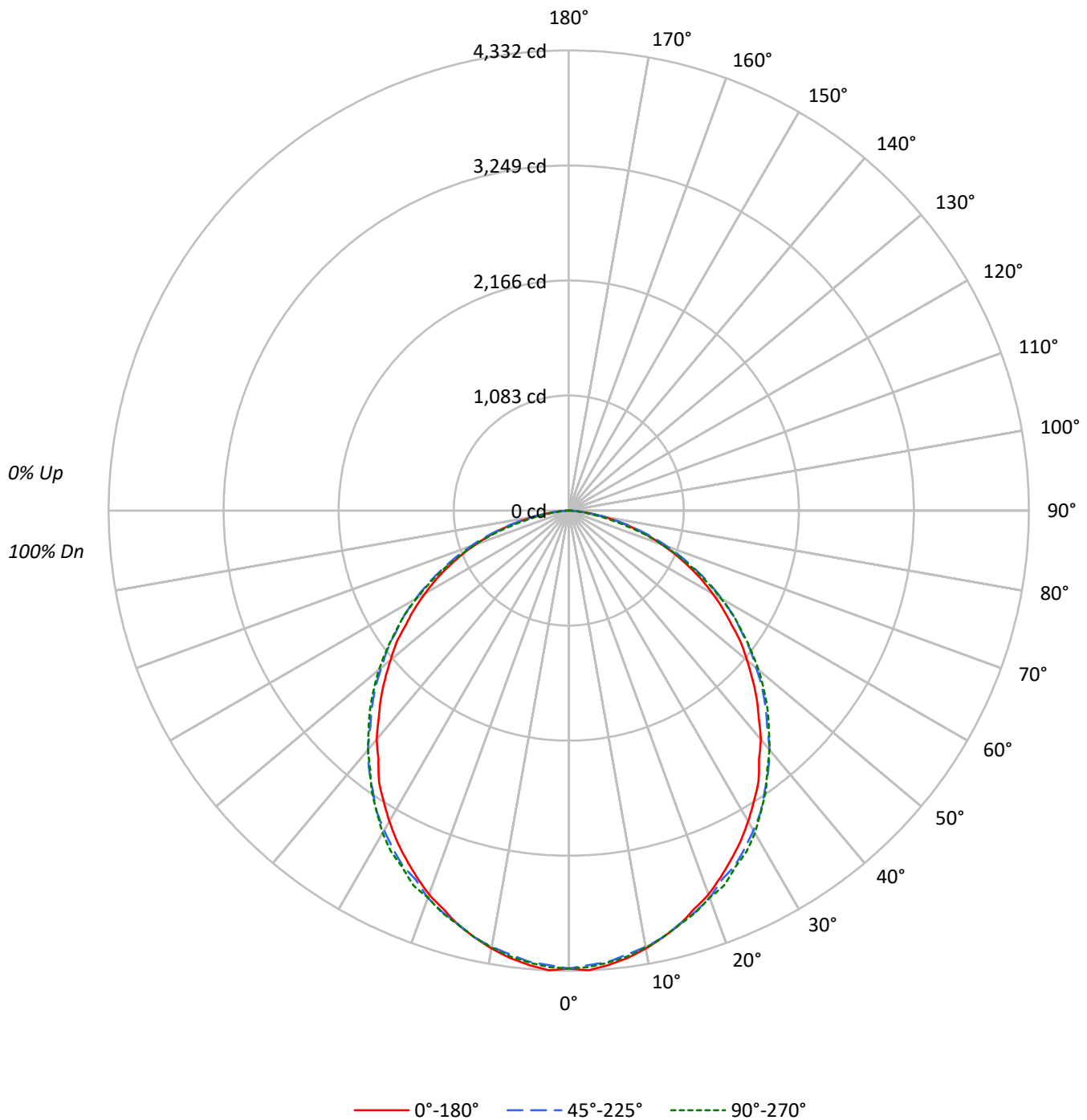
Lumens per Lamp: N/A
Luminaire Lumens: 11072.3 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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					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°	11600	11600	11600
5°	11600	11517	11536
10°	11438	11399	11412
15°	11241	11228	11234
20°	11015	11109	11102
25°	10756	10966	11001
30°	10495	10802	10890
35°	10236	10568	10615
40°	9885	10333	10324
45°	9525	9974	10073
50°	9166	9640	9768
55°	8779	9299	9355
60°	8410	8968	8904
65°	7969	8419	8254
70°	7343	7733	7380
75°	6494	6763	5906
80°	5222	5295	4127
85°	3421	3276	2402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	3.7
10°-20°	1139.3	10.3
20°-30°	1696.2	15.3
30°-40°	1996.6	18.0
40°-50°	2001.8	18.1
50°-60°	1755.4	15.9
60°-70°	1283.6	11.6
70°-80°	661.5	6.0
80°-90°	132.7	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°	3240.7	29.3
0°-40°	5237.3	47.3
0°-60°	8994.5	81.2
0°-90°	11072.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11072.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4311	4311	4311	4311	4311	
5°	4294	4266	4264	4292	4271	406
15°	4035	4042	4030	4056	4033	1136
25°	3622	3639	3693	3745	3705	1669
35°	3116	3130	3217	3252	3231	1940
45°	2503	2515	2621	2654	2647	1929
55°	1871	1914	1982	2010	1994	1680
65°	1252	1280	1322	1318	1296	1238
75°	625	629	650	606	568	662
85°	111	108	106	85	78	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4310.7	4310.7	4310.7	4310.7	4310.7
2.5°	4331.9	4310.7	4282.4	4306.0	4301.3
5°	4294.2	4265.9	4263.6	4291.8	4270.6
7.5°	4247.1	4242.3	4214.1	4244.7	4232.9
10°	4185.8	4181.1	4171.6	4192.9	4176.4
12.5°	4112.7	4108.0	4112.7	4124.5	4112.7
15°	4034.9	4042.0	4030.2	4056.2	4032.6
17.5°	3931.2	3938.3	3961.9	3971.3	3969.0
20°	3846.4	3851.1	3879.4	3917.1	3877.0
22.5°	3735.6	3747.4	3761.5	3829.9	3820.5
25°	3622.5	3639.0	3693.2	3745.0	3705.0
27.5°	3504.6	3521.1	3587.1	3624.8	3620.1
30°	3377.4	3393.9	3476.4	3528.2	3504.6
32.5°	3245.4	3273.7	3363.2	3408.0	3363.2
35°	3115.8	3129.9	3217.1	3252.5	3231.3
37.5°	2943.7	2997.9	3085.1	3108.7	3071.0
40°	2814.1	2816.4	2941.4	2941.4	2939.0
42.5°	2646.8	2684.5	2767.0	2811.7	2788.2
45°	2503.0	2514.8	2620.8	2653.8	2646.8
47.5°	2345.1	2392.2	2470.0	2507.7	2488.8
50°	2189.5	2222.5	2302.7	2352.1	2333.3
52.5°	2045.8	2071.7	2154.2	2182.5	2163.6
55°	1871.3	1913.8	1982.1	2010.4	1993.9
57.5°	1720.5	1751.1	1836.0	1845.4	1836.0
60°	1562.6	1598.0	1666.3	1673.4	1654.5
62.5°	1411.8	1435.3	1496.6	1499.0	1477.8
65°	1251.5	1279.8	1322.2	1317.5	1296.3
67.5°	1093.6	1112.4	1152.5	1136.0	1112.4
70°	933.3	949.8	982.8	959.2	938.0
72.5°	777.8	789.5	817.8	782.5	756.6
75°	624.6	629.3	650.5	605.7	568.0
77.5°	473.7	478.4	490.2	445.4	403.0
80°	337.0	337.0	341.7	294.6	266.3
82.5°	212.1	212.1	209.8	174.4	157.9
85°	110.8	108.4	106.1	84.8	77.8
87.5°	40.1	40.1	33.0	30.6	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)