

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: P485169

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-50-120-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.



Test Information

Test Method: LM-79-08
Report Number: P485169
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-12-4-INS-A125-LD4-3HI-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

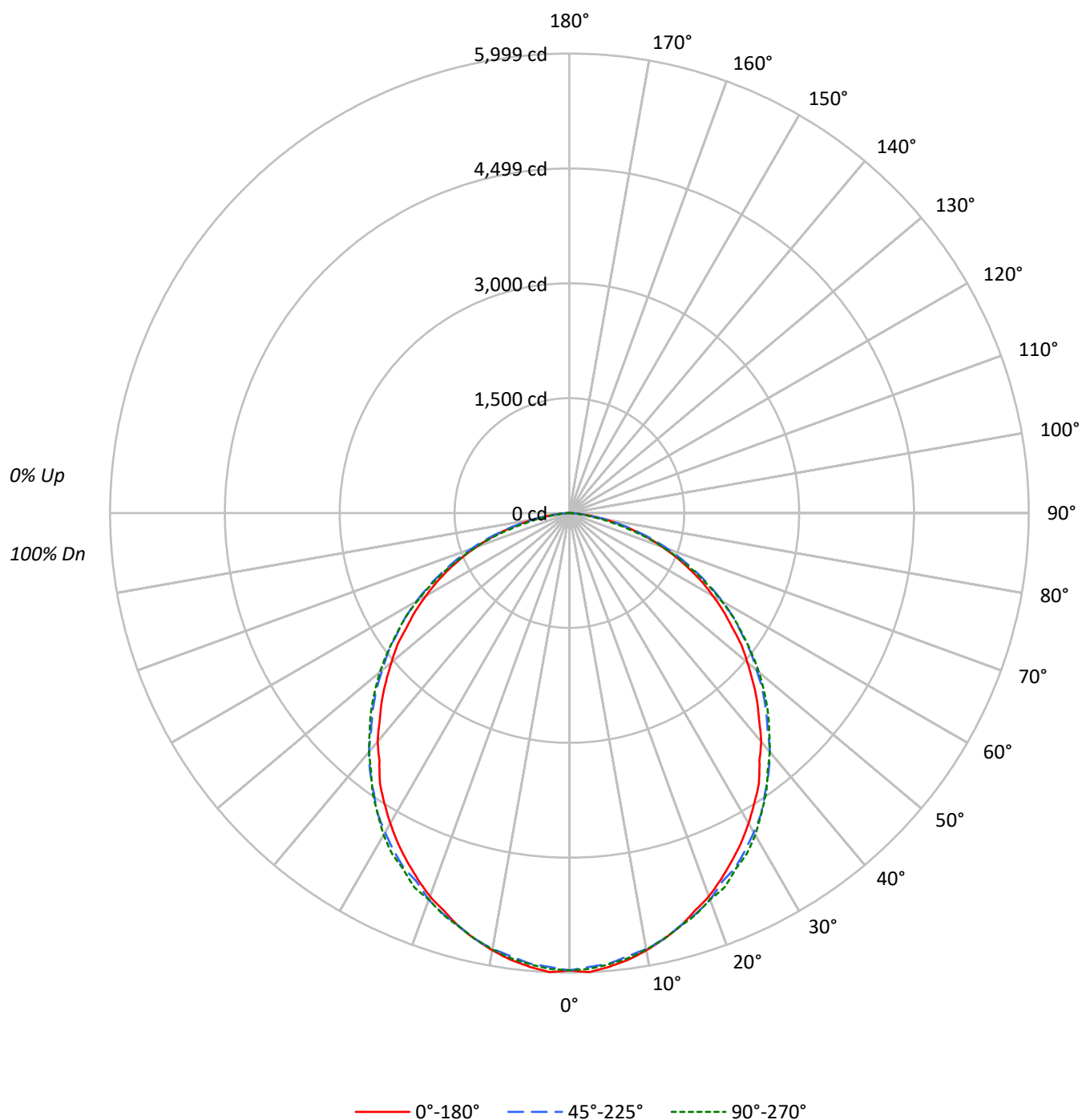
Lumens per Lamp: N/A
Luminaire Lumens: 15333.9 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	16065	16065	16065
5°	16064	15950	15976
10°	15840	15786	15804
15°	15567	15549	15558
20°	15254	15385	15376
25°	14895	15186	15235
30°	14534	14960	15081
35°	14175	14636	14700
40°	13690	14309	14298
45°	13192	13813	13949
50°	12694	13350	13528
55°	12159	12878	12955
60°	11647	12419	12332
65°	11036	11659	11431
70°	10169	10709	10221
75°	8994	9367	8178
80°	7234	7335	5715
85°	4736	4536	3325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.1	3.7
10°-20°	1577.8	10.3
20°-30°	2349.1	15.3
30°-40°	2765.0	18.0
40°-50°	2772.3	18.1
50°-60°	2431.0	15.9
60°-70°	1777.6	11.6
70°-80°	916.1	6.0
80°-90°	183.8	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°	4488.0	29.3
0°-40°	7253.0	47.3
0°-60°	12456.3	81.2
0°-90°	15333.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15333.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5970	5970	5970	5970	5970	
5°	5947	5908	5905	5944	5914	563
15°	5588	5598	5581	5617	5585	1573
25°	5017	5040	5115	5186	5131	2311
35°	4315	4335	4455	4504	4475	2687
45°	3466	3483	3630	3675	3666	2671
55°	2592	2650	2745	2784	2761	2326
65°	1733	1772	1831	1825	1795	1714
75°	865	872	901	839	787	917
85°	153	150	147	118	108	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5969.8	5969.8	5969.8	5969.8	5969.8
2.5°	5999.2	5969.8	5930.7	5963.3	5956.8
5°	5947.0	5907.8	5904.6	5943.7	5914.3
7.5°	5881.7	5875.2	5836.0	5878.4	5862.1
10°	5796.8	5790.3	5777.3	5806.6	5783.8
12.5°	5695.7	5689.1	5695.7	5712.0	5695.7
15°	5587.9	5597.7	5581.4	5617.3	5584.7
17.5°	5444.3	5454.1	5486.8	5499.8	5496.6
20°	5326.8	5333.4	5372.5	5424.7	5369.3
22.5°	5173.4	5189.7	5209.3	5304.0	5290.9
25°	5016.7	5039.6	5114.7	5186.5	5131.0
27.5°	4853.5	4876.4	4967.8	5020.0	5013.5
30°	4677.3	4700.1	4814.4	4886.2	4853.5
32.5°	4494.5	4533.7	4657.7	4719.7	4657.7
35°	4315.0	4334.6	4455.3	4504.3	4474.9
37.5°	4076.7	4151.8	4272.6	4305.2	4253.0
40°	3897.2	3900.5	4073.5	4073.5	4070.2
42.5°	3665.5	3717.7	3831.9	3893.9	3861.3
45°	3466.4	3482.7	3629.6	3675.2	3665.5
47.5°	3247.7	3312.9	3420.7	3472.9	3446.8
50°	3032.2	3077.9	3188.9	3257.5	3231.3
52.5°	2833.1	2869.0	2983.3	3022.5	2996.3
55°	2591.6	2650.4	2745.0	2784.2	2761.3
57.5°	2382.7	2425.1	2542.6	2555.7	2542.6
60°	2164.0	2213.0	2307.6	2317.4	2291.3
62.5°	1955.1	1987.8	2072.6	2075.9	2046.5
65°	1733.2	1772.3	1831.1	1824.6	1795.2
67.5°	1514.5	1540.6	1596.1	1573.2	1540.6
70°	1292.5	1315.4	1361.1	1328.4	1299.1
72.5°	1077.1	1093.4	1132.6	1083.6	1047.7
75°	865.0	871.5	900.9	838.8	786.6
77.5°	656.1	662.6	678.9	616.9	558.1
80°	466.8	466.8	473.3	408.0	368.8
82.5°	293.8	293.8	290.5	241.5	218.7
85°	153.4	150.1	146.9	117.5	107.7
87.5°	55.5	55.5	45.7	42.4	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)