

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: P486056

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-50-120-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: P486056
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-LD4-6STD-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

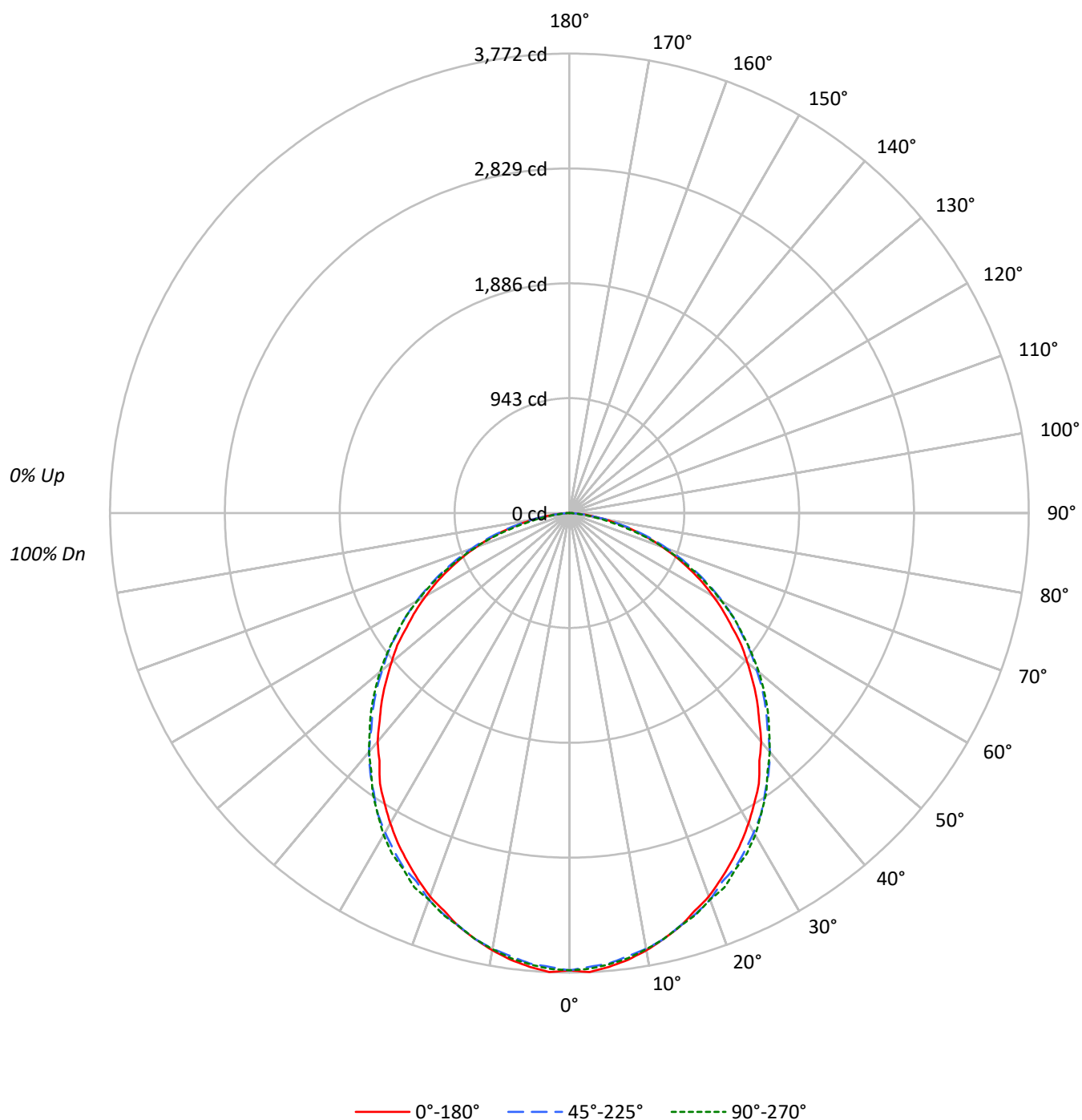
Lumens per Lamp: N/A
Luminaire Lumens: 9640.4 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	10100	10100	10100
5°	10100	10028	10044
10°	9959	9925	9936
15°	9787	9776	9782
20°	9590	9673	9667
25°	9365	9548	9578
30°	9137	9405	9482
35°	8912	9202	9242
40°	8607	8996	8989
45°	8294	8684	8770
50°	7981	8393	8505
55°	7644	8097	8145
60°	7322	7808	7753
65°	6938	7330	7186
70°	6393	6733	6426
75°	5654	5889	5141
80°	4547	4610	3594
85°	2976	2850	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	3.7
10°-20°	992.0	10.3
20°-30°	1476.9	15.3
30°-40°	1738.4	18.0
40°-50°	1742.9	18.1
50°-60°	1528.4	15.9
60°-70°	1117.6	11.6
70°-80°	576.0	6.0
80°-90°	115.6	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°	2821.6	29.3
0°-40°	4560.0	47.3
0°-60°	7831.3	81.2
0°-90°	9640.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9640.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3753	3753	3753	3753	3753	
5°	3739	3714	3712	3737	3718	354
15°	3513	3519	3509	3532	3511	989
25°	3154	3168	3216	3261	3226	1453
35°	2713	2725	2801	2832	2813	1689
45°	2179	2190	2282	2311	2304	1680
55°	1629	1666	1726	1750	1736	1463
65°	1090	1114	1151	1147	1129	1078
75°	544	548	566	527	494	576
85°	96	94	92	74	68	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3753.2	3753.2	3753.2	3753.2	3753.2
2.5°	3771.7	3753.2	3728.6	3749.1	3745.0
5°	3738.9	3714.2	3712.2	3736.8	3718.3
7.5°	3697.8	3693.7	3669.1	3695.8	3685.5
10°	3644.5	3640.4	3632.2	3650.6	3636.3
12.5°	3580.9	3576.7	3580.9	3591.1	3580.9
15°	3513.1	3519.3	3509.0	3531.6	3511.1
17.5°	3422.8	3429.0	3449.5	3457.7	3455.7
20°	3349.0	3353.1	3377.7	3410.5	3375.6
22.5°	3252.5	3262.8	3275.1	3334.6	3326.4
25°	3154.0	3168.4	3215.6	3260.7	3225.8
27.5°	3051.4	3065.8	3123.2	3156.1	3152.0
30°	2940.6	2955.0	3026.8	3071.9	3051.4
32.5°	2825.7	2850.3	2928.3	2967.3	2928.3
35°	2712.8	2725.1	2801.1	2831.8	2813.4
37.5°	2563.0	2610.2	2686.2	2706.7	2673.8
40°	2450.2	2452.2	2561.0	2561.0	2558.9
42.5°	2304.5	2337.3	2409.1	2448.1	2427.6
45°	2179.3	2189.6	2281.9	2310.6	2304.5
47.5°	2041.8	2082.8	2150.6	2183.4	2167.0
50°	1906.4	1935.1	2004.9	2048.0	2031.5
52.5°	1781.2	1803.8	1875.6	1900.2	1883.8
55°	1629.3	1666.3	1725.8	1750.4	1736.0
57.5°	1498.0	1524.7	1598.6	1606.8	1598.6
60°	1360.5	1391.3	1450.8	1457.0	1440.5
62.5°	1229.2	1249.7	1303.1	1305.1	1286.6
65°	1089.6	1114.3	1151.2	1147.1	1128.6
67.5°	952.2	968.6	1003.5	989.1	968.6
70°	812.6	827.0	855.7	835.2	816.7
72.5°	677.2	687.4	712.1	681.3	658.7
75°	543.8	547.9	566.4	527.4	494.5
77.5°	412.5	416.6	426.8	387.8	350.9
80°	293.4	293.4	297.5	256.5	231.9
82.5°	184.7	184.7	182.6	151.9	137.5
85°	96.4	94.4	92.3	73.9	67.7
87.5°	34.9	34.9	28.7	26.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)