

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: P487244

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-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: P487244
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-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

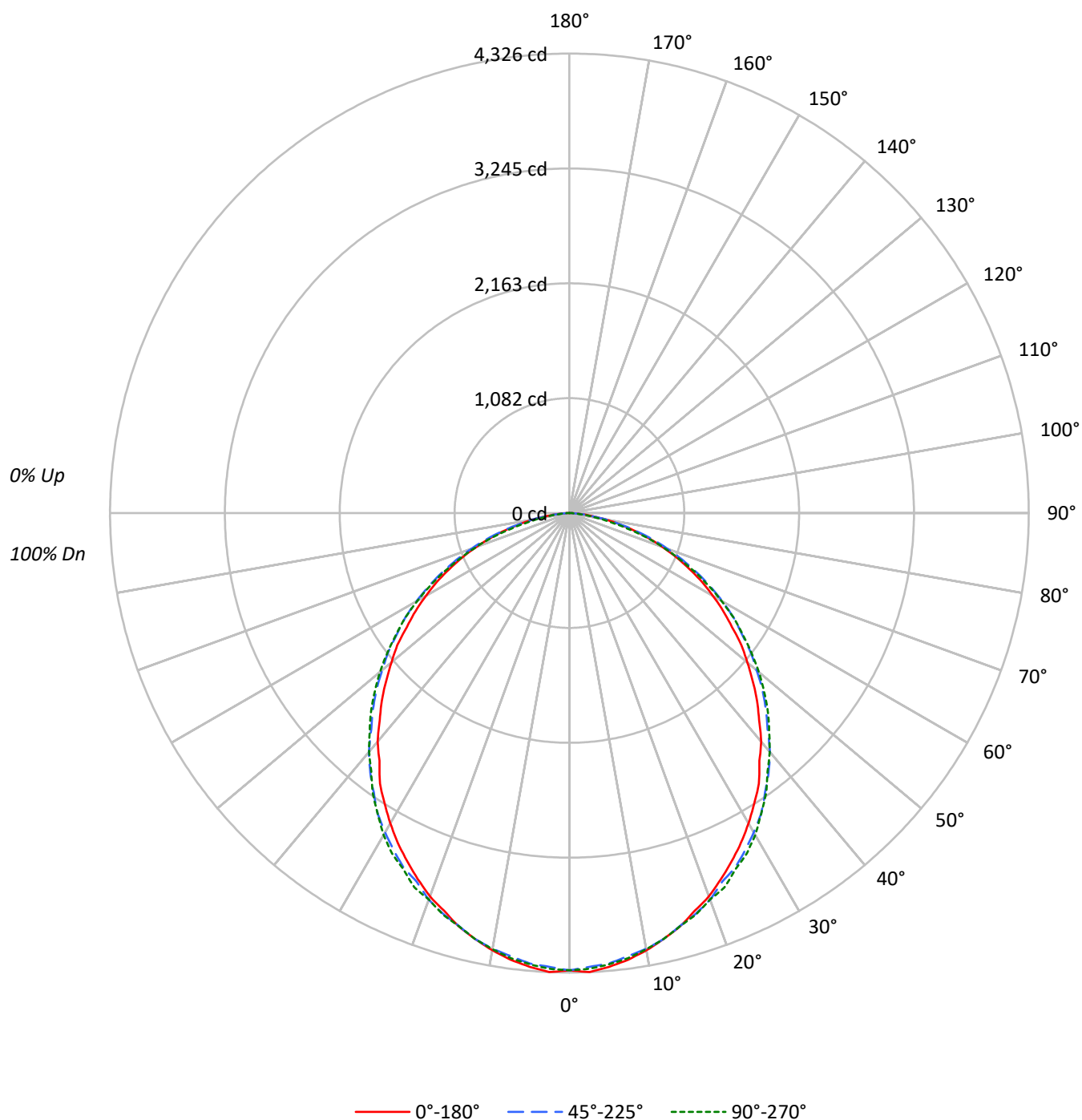
Lumens per Lamp: N/A
Luminaire Lumens: 11056.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	5792	5792	5792
5°	5791	5750	5760
10°	5710	5691	5698
15°	5612	5606	5609
20°	5499	5547	5543
25°	5370	5475	5492
30°	5240	5393	5437
35°	5110	5276	5300
40°	4936	5159	5155
45°	4756	4980	5029
50°	4576	4813	4877
55°	4383	4643	4670
60°	4199	4478	4446
65°	3979	4203	4121
70°	3666	3861	3685
75°	3242	3376	2949
80°	2607	2644	2060
85°	1707	1635	1200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.6	3.7
10°-20°	1137.7	10.3
20°-30°	1693.8	15.3
30°-40°	1993.6	18.0
40°-50°	1998.9	18.1
50°-60°	1752.8	15.9
60°-70°	1281.7	11.6
70°-80°	660.5	6.0
80°-90°	132.5	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°	3236.0	29.3
0°-40°	5229.6	47.3
0°-60°	8981.4	81.2
0°-90°	11056.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11056.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4304	4304	4304	4304	4304	
5°	4288	4260	4257	4286	4264	406
15°	4029	4036	4024	4050	4027	1134
25°	3617	3634	3688	3740	3700	1666
35°	3111	3125	3212	3248	3227	1938
45°	2499	2511	2617	2650	2643	1926
55°	1869	1911	1979	2008	1991	1677
65°	1250	1278	1320	1316	1294	1236
75°	624	628	650	605	567	661
85°	111	108	106	85	78	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4304.4	4304.4	4304.4	4304.4	4304.4
2.5°	4325.6	4304.4	4276.2	4299.7	4295.0
5°	4288.0	4259.7	4257.4	4285.6	4264.4
7.5°	4240.9	4236.2	4207.9	4238.5	4226.8
10°	4179.7	4175.0	4165.6	4186.8	4170.3
12.5°	4106.7	4102.0	4106.7	4118.5	4106.7
15°	4029.1	4036.1	4024.4	4050.3	4026.7
17.5°	3925.5	3932.6	3956.1	3965.5	3963.2
20°	3840.8	3845.5	3873.7	3911.4	3871.4
22.5°	3730.2	3742.0	3756.1	3824.3	3814.9
25°	3617.2	3633.7	3687.8	3739.6	3699.6
27.5°	3499.6	3516.0	3581.9	3619.6	3614.9
30°	3372.5	3388.9	3471.3	3523.1	3499.6
32.5°	3240.7	3268.9	3358.3	3403.1	3358.3
35°	3111.2	3125.4	3212.4	3247.7	3226.6
37.5°	2939.4	2993.6	3080.6	3104.2	3066.5
40°	2810.0	2812.4	2937.1	2937.1	2934.7
42.5°	2642.9	2680.6	2762.9	2807.6	2784.1
45°	2499.3	2511.1	2617.0	2650.0	2642.9
47.5°	2341.7	2388.7	2466.4	2504.1	2485.2
50°	2186.3	2219.3	2299.3	2348.7	2329.9
52.5°	2042.8	2068.7	2151.0	2179.3	2160.5
55°	1868.6	1911.0	1979.2	2007.5	1991.0
57.5°	1718.0	1748.6	1833.3	1842.7	1833.3
60°	1560.3	1595.6	1663.9	1670.9	1652.1
62.5°	1409.7	1433.2	1494.4	1496.8	1475.6
65°	1249.7	1277.9	1320.3	1315.6	1294.4
67.5°	1092.0	1110.8	1150.8	1134.4	1110.8
70°	932.0	948.4	981.4	957.8	936.7
72.5°	776.6	788.4	816.6	781.3	755.5
75°	623.7	628.4	649.5	604.8	567.2
77.5°	473.0	477.7	489.5	444.8	402.4
80°	336.5	336.5	341.2	294.2	265.9
82.5°	211.8	211.8	209.5	174.2	157.7
85°	110.6	108.3	105.9	84.7	77.7
87.5°	40.0	40.0	32.9	30.6	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)