

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: P487178

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-30-120-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: P487178
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-LD4-2HI-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

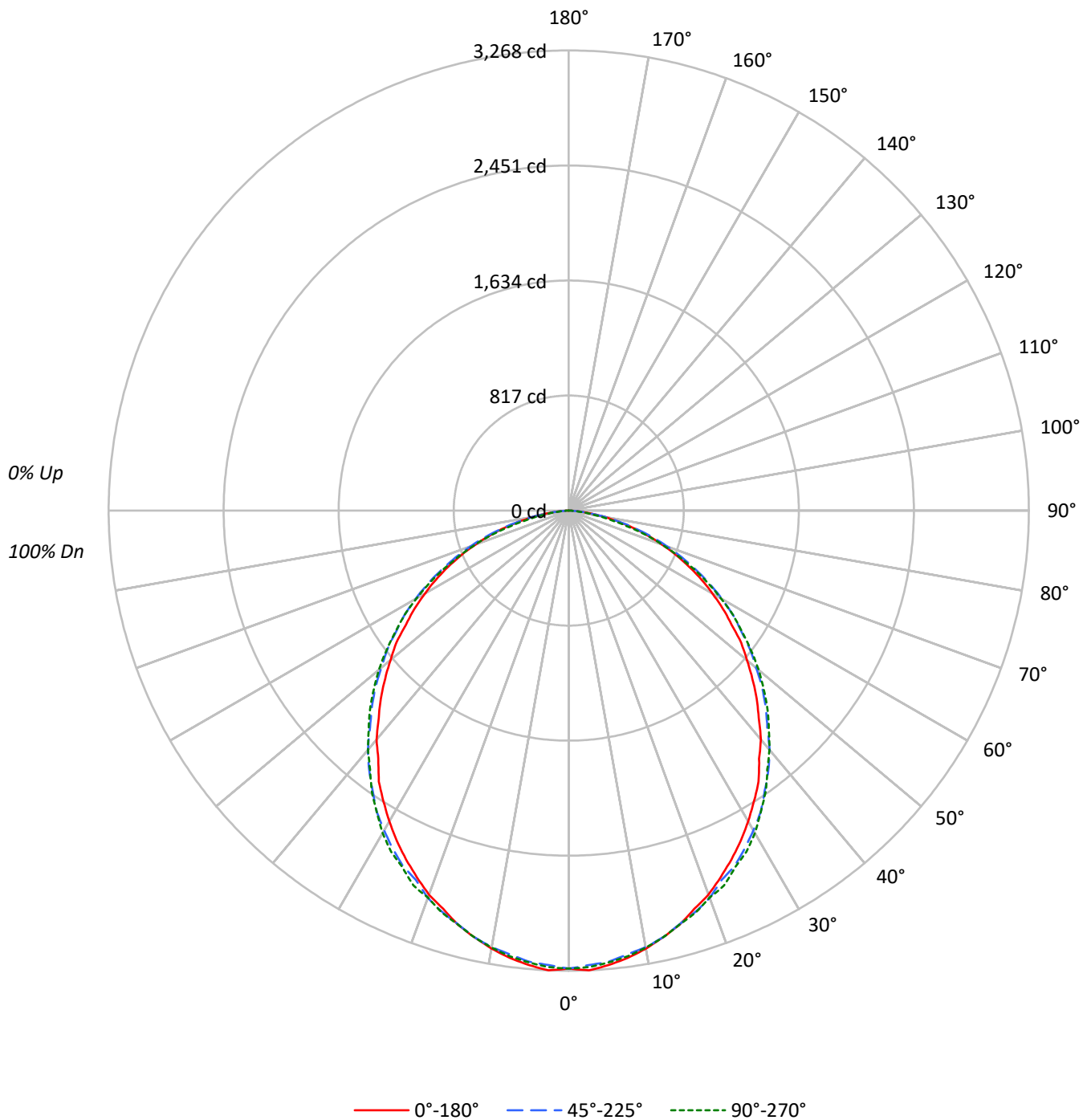
Lumens per Lamp: N/A
Luminaire Lumens: 8354.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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
RC	80					70						30						0
RW	70	50	30	10		70	50	30	10			50	30	10				0
RCR																		
0	119	119	119	119		116	116	116	116			111	111	111				100
1	109	105	101	97		107	102	99	95			98	95	92				85
2	100	92	85	79		97	90	84	79			86	81	77				71
3	91	81	73	66		89	79	72	66			76	70	65				60
4	83	72	63	57		81	70	62	56			68	61	55				52
5	77	64	55	49		75	63	55	49			61	54	48				45
6	71	58	49	43		69	57	49	43			55	48	42				39
7	66	53	44	38		64	52	44	38			50	43	37				35
8	61	48	40	34		60	47	39	34			46	39	34				31
9	57	44	36	31		56	44	36	30			42	35	30				28
10	54	41	33	28		53	40	33	28			39	32	28				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4376	4376	4376
5°	4376	4345	4352
10°	4315	4300	4305
15°	4241	4236	4238
20°	4155	4191	4188
25°	4058	4137	4150
30°	3959	4075	4108
35°	3861	3987	4005
40°	3729	3898	3895
45°	3593	3763	3800
50°	3458	3637	3685
55°	3312	3508	3529
60°	3173	3383	3359
65°	3006	3176	3114
70°	2770	2917	2784
75°	2450	2551	2228
80°	1970	1998	1557
85°	1291	1235	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	3.7
10°-20°	859.6	10.3
20°-30°	1279.8	15.3
30°-40°	1506.4	18.0
40°-50°	1510.3	18.1
50°-60°	1324.4	15.9
60°-70°	968.5	11.6
70°-80°	499.1	6.0
80°-90°	100.1	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°	2445.1	29.3
0°-40°	3951.5	47.3
0°-60°	6786.3	81.2
0°-90°	8354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3252	3252	3252	3252	3252	
5°	3240	3219	3217	3238	3222	307
15°	3044	3050	3041	3060	3043	857
25°	2733	2746	2786	2826	2795	1259
35°	2351	2362	2427	2454	2438	1464
45°	1888	1897	1977	2002	1997	1455
55°	1412	1444	1496	1517	1504	1267
65°	944	966	998	994	978	934
75°	471	475	491	457	429	499
85°	84	82	80	64	59	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3252.4	3252.4	3252.4	3252.4	3252.4
2.5°	3268.4	3252.4	3231.1	3248.8	3245.3
5°	3240.0	3218.6	3216.8	3238.2	3222.2
7.5°	3204.4	3200.8	3179.5	3202.6	3193.7
10°	3158.2	3154.6	3147.5	3163.5	3151.0
12.5°	3103.0	3099.5	3103.0	3111.9	3103.0
15°	3044.3	3049.7	3040.8	3060.3	3042.6
17.5°	2966.1	2971.4	2989.2	2996.3	2994.6
20°	2902.1	2905.6	2927.0	2955.4	2925.2
22.5°	2818.5	2827.4	2838.1	2889.6	2882.5
25°	2733.2	2745.6	2786.5	2825.6	2795.4
27.5°	2644.2	2656.7	2706.5	2734.9	2731.4
30°	2548.2	2560.7	2622.9	2662.0	2644.2
32.5°	2448.6	2470.0	2537.5	2571.3	2537.5
35°	2350.8	2361.5	2427.3	2454.0	2438.0
37.5°	2221.0	2261.9	2327.7	2345.5	2317.0
40°	2123.2	2125.0	2219.2	2219.2	2217.5
42.5°	1997.0	2025.4	2087.7	2121.4	2103.7
45°	1888.5	1897.4	1977.4	2002.3	1997.0
47.5°	1769.3	1804.9	1863.6	1892.0	1877.8
50°	1652.0	1676.9	1737.3	1774.7	1760.5
52.5°	1543.5	1563.1	1625.3	1646.6	1632.4
55°	1411.9	1443.9	1495.5	1516.8	1504.4
57.5°	1298.1	1321.2	1385.2	1392.4	1385.2
60°	1179.0	1205.6	1257.2	1262.5	1248.3
62.5°	1065.2	1082.9	1129.2	1131.0	1115.0
65°	944.2	965.6	997.6	994.0	978.0
67.5°	825.1	839.3	869.6	857.1	839.3
70°	704.2	716.6	741.5	723.7	707.7
72.5°	586.8	595.7	617.0	590.4	570.8
75°	471.2	474.8	490.8	457.0	428.6
77.5°	357.4	361.0	369.9	336.1	304.1
80°	254.3	254.3	257.8	222.3	200.9
82.5°	160.0	160.0	158.3	131.6	119.1
85°	83.6	81.8	80.0	64.0	58.7
87.5°	30.2	30.2	24.9	23.1	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)