

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: P487239

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-30-120-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: P487239
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

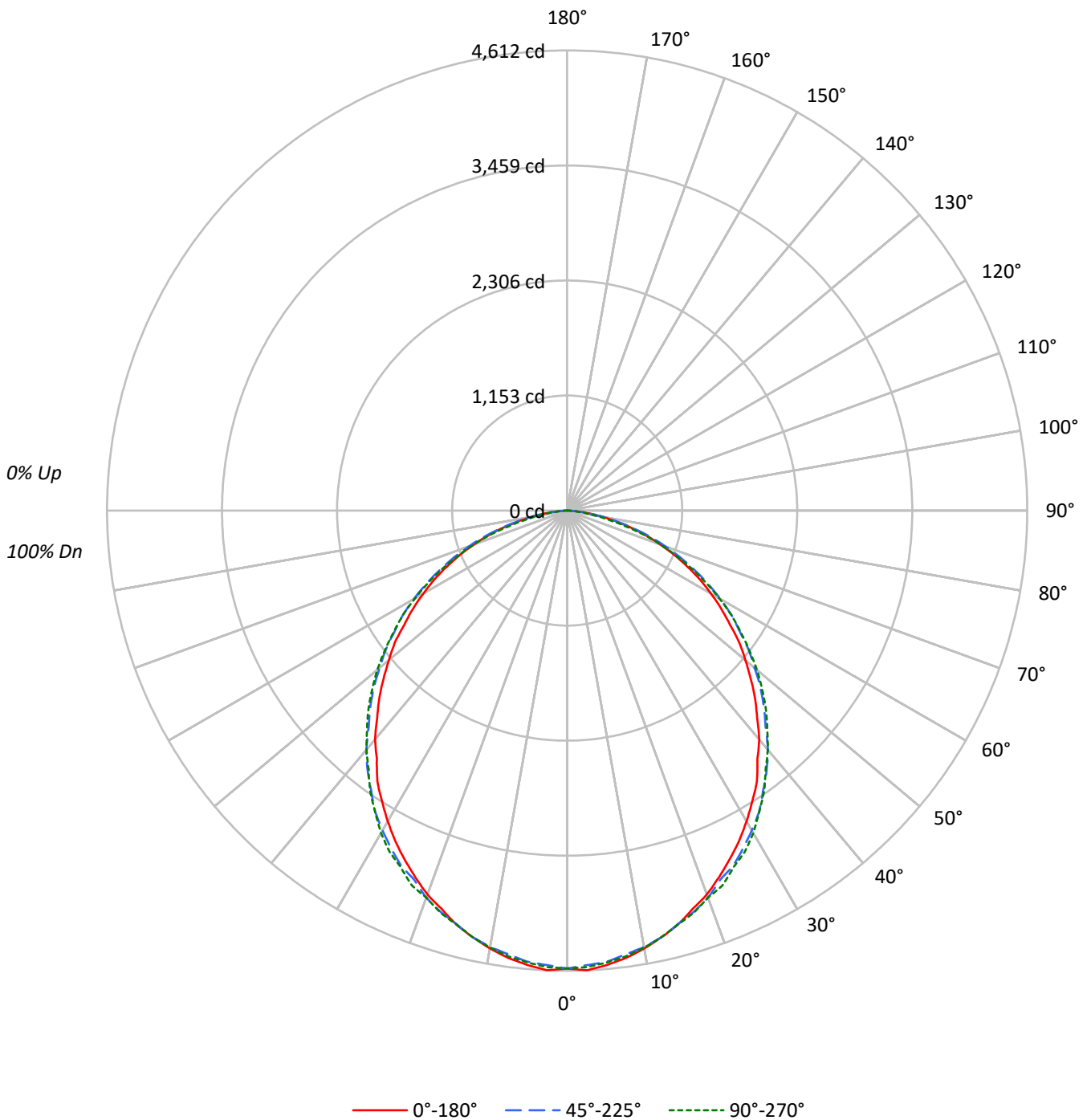
Lumens per Lamp: N/A
Luminaire Lumens: 11788.1 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6175	6175	6175
5°	6175	6131	6141
10°	6089	6068	6075
15°	5984	5977	5980
20°	5864	5914	5910
25°	5726	5837	5856
30°	5586	5750	5797
35°	5449	5626	5650
40°	5262	5500	5496
45°	5071	5309	5362
50°	4879	5132	5200
55°	4674	4950	4980
60°	4477	4774	4740
65°	4242	4482	4394
70°	3909	4116	3929
75°	3457	3600	3144
80°	2780	2819	2197
85°	1820	1743	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.4	3.7
10°-20°	1213.0	10.3
20°-30°	1805.9	15.3
30°-40°	2125.6	18.0
40°-50°	2131.2	18.1
50°-60°	1868.9	15.9
60°-70°	1366.6	11.6
70°-80°	704.3	6.0
80°-90°	141.3	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°	3450.2	29.3
0°-40°	5575.8	47.3
0°-60°	9575.9	81.2
0°-90°	11788.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11788.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4589	4589	4589	4589	4589	
5°	4572	4542	4539	4569	4547	433
15°	4296	4303	4291	4318	4293	1209
25°	3857	3874	3932	3987	3944	1777
35°	3317	3332	3425	3463	3440	2066
45°	2665	2677	2790	2825	2818	2054
55°	1992	2038	2110	2140	2123	1788
65°	1332	1362	1408	1403	1380	1318
75°	665	670	692	645	605	705
85°	118	115	113	90	83	154
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4589.4	4589.4	4589.4	4589.4	4589.4
2.5°	4612.0	4589.4	4559.3	4584.4	4579.3
5°	4571.8	4541.7	4539.2	4569.3	4546.7
7.5°	4521.6	4516.6	4486.5	4519.1	4506.6
10°	4456.4	4451.4	4441.3	4463.9	4446.3
12.5°	4378.6	4373.6	4378.6	4391.1	4378.6
15°	4295.8	4303.3	4290.8	4318.4	4293.3
17.5°	4185.4	4192.9	4218.0	4228.0	4225.5
20°	4095.1	4100.1	4130.2	4170.3	4127.7
22.5°	3977.1	3989.7	4004.7	4077.5	4067.5
25°	3856.7	3874.2	3932.0	3987.2	3944.5
27.5°	3731.2	3748.8	3819.0	3859.2	3854.2
30°	3595.7	3613.3	3701.1	3756.3	3731.2
32.5°	3455.2	3485.3	3580.7	3628.3	3580.7
35°	3317.2	3332.3	3425.1	3462.7	3440.1
37.5°	3134.0	3191.7	3284.6	3309.7	3269.5
40°	2996.0	2998.5	3131.5	3131.5	3129.0
42.5°	2817.9	2858.0	2945.8	2993.5	2968.4
45°	2664.8	2677.3	2790.3	2825.4	2817.9
47.5°	2496.7	2546.9	2629.7	2669.8	2649.7
50°	2331.1	2366.2	2451.5	2504.2	2484.1
52.5°	2178.0	2205.6	2293.4	2323.5	2303.5
55°	1992.3	2037.5	2110.3	2140.4	2122.8
57.5°	1831.7	1864.4	1954.7	1964.7	1954.7
60°	1663.6	1701.3	1774.0	1781.5	1761.5
62.5°	1503.0	1528.1	1593.4	1595.9	1573.3
65°	1332.4	1362.5	1407.7	1402.7	1380.1
67.5°	1164.3	1184.4	1227.0	1209.4	1184.4
70°	993.7	1011.2	1046.3	1021.3	998.7
72.5°	828.0	840.6	870.7	833.1	805.5
75°	664.9	670.0	692.5	644.9	604.7
77.5°	504.4	509.4	521.9	474.2	429.1
80°	358.8	358.8	363.8	313.7	283.5
82.5°	225.8	225.8	223.3	185.7	168.1
85°	117.9	115.4	112.9	90.3	82.8
87.5°	42.7	42.7	35.1	32.6	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)