

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: P487225

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3LO-27-120-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: P487225
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-LD4-3LO-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

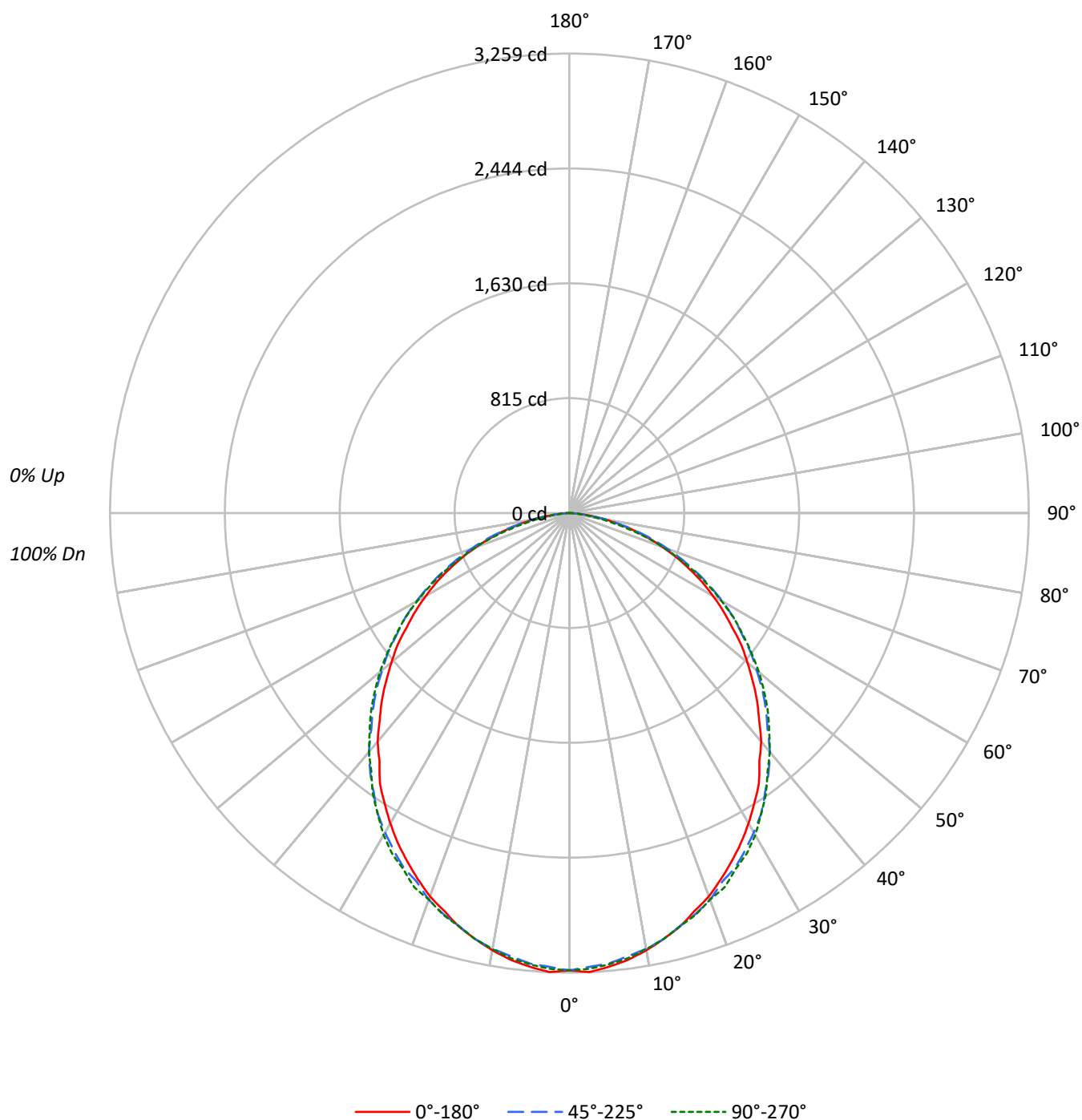
Lumens per Lamp: N/A
Luminaire Lumens: 8329.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	4363	4363	4363
5°	4363	4332	4339
10°	4302	4287	4292
15°	4228	4223	4226
20°	4143	4178	4176
25°	4045	4124	4138
30°	3947	4063	4096
35°	3850	3975	3993
40°	3718	3886	3883
45°	3583	3751	3788
50°	3448	3626	3674
55°	3302	3498	3518
60°	3163	3373	3349
65°	2997	3167	3104
70°	2762	2908	2776
75°	2442	2544	2221
80°	1964	1992	1552
85°	1286	1232	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	3.7
10°-20°	857.0	10.3
20°-30°	1276.0	15.3
30°-40°	1501.9	18.0
40°-50°	1505.8	18.1
50°-60°	1320.5	15.9
60°-70°	965.6	11.6
70°-80°	497.6	6.0
80°-90°	99.8	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°	2437.8	29.3
0°-40°	3939.7	47.3
0°-60°	6766.0	81.2
0°-90°	8329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3243	3243	3243	3243	3243	
5°	3230	3209	3207	3228	3212	306
15°	3035	3041	3032	3051	3034	854
25°	2725	2737	2778	2817	2787	1255
35°	2344	2354	2420	2447	2431	1460
45°	1883	1892	1972	1996	1991	1451
55°	1408	1440	1491	1512	1500	1264
65°	941	963	995	991	975	931
75°	470	473	489	456	427	498
85°	83	82	80	64	58	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3242.7	3242.7	3242.7	3242.7	3242.7
2.5°	3258.6	3242.7	3221.4	3239.1	3235.6
5°	3230.3	3209.0	3207.2	3228.5	3212.5
7.5°	3194.8	3191.3	3170.0	3193.0	3184.2
10°	3148.7	3145.2	3138.1	3154.0	3141.6
12.5°	3093.7	3090.2	3093.7	3102.6	3093.7
15°	3035.2	3040.6	3031.7	3051.2	3033.5
17.5°	2957.2	2962.5	2980.3	2987.4	2985.6
20°	2893.4	2896.9	2918.2	2946.6	2916.4
22.5°	2810.1	2818.9	2829.6	2881.0	2873.9
25°	2725.0	2737.4	2778.2	2817.2	2787.0
27.5°	2636.3	2648.7	2698.4	2726.7	2723.2
30°	2540.6	2553.0	2615.1	2654.1	2636.3
32.5°	2441.3	2462.6	2530.0	2563.6	2530.0
35°	2343.8	2354.4	2420.0	2446.6	2430.7
37.5°	2214.4	2255.2	2320.7	2338.5	2310.1
40°	2116.9	2118.6	2212.6	2212.6	2210.8
42.5°	1991.0	2019.4	2081.4	2115.1	2097.4
45°	1882.8	1891.7	1971.5	1996.3	1991.0
47.5°	1764.1	1799.5	1858.0	1886.4	1872.2
50°	1647.0	1671.9	1732.1	1769.4	1755.2
52.5°	1538.9	1558.4	1620.4	1641.7	1627.5
55°	1407.7	1439.6	1491.0	1512.3	1499.9
57.5°	1294.2	1317.3	1381.1	1388.2	1381.1
60°	1175.4	1202.0	1253.5	1258.8	1244.6
62.5°	1062.0	1079.7	1125.8	1127.6	1111.6
65°	941.4	962.7	994.6	991.1	975.1
67.5°	822.6	836.8	867.0	854.5	836.8
70°	702.1	714.5	739.3	721.6	705.6
72.5°	585.1	593.9	615.2	588.6	569.1
75°	469.8	473.4	489.3	455.6	427.3
77.5°	356.4	359.9	368.8	335.1	303.2
80°	253.5	253.5	257.1	221.6	200.3
82.5°	159.6	159.6	157.8	131.2	118.8
85°	83.3	81.6	79.8	63.8	58.5
87.5°	30.1	30.1	24.8	23.0	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)