

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: P487207

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-40-120-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: P487207
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-LD4-2STD-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

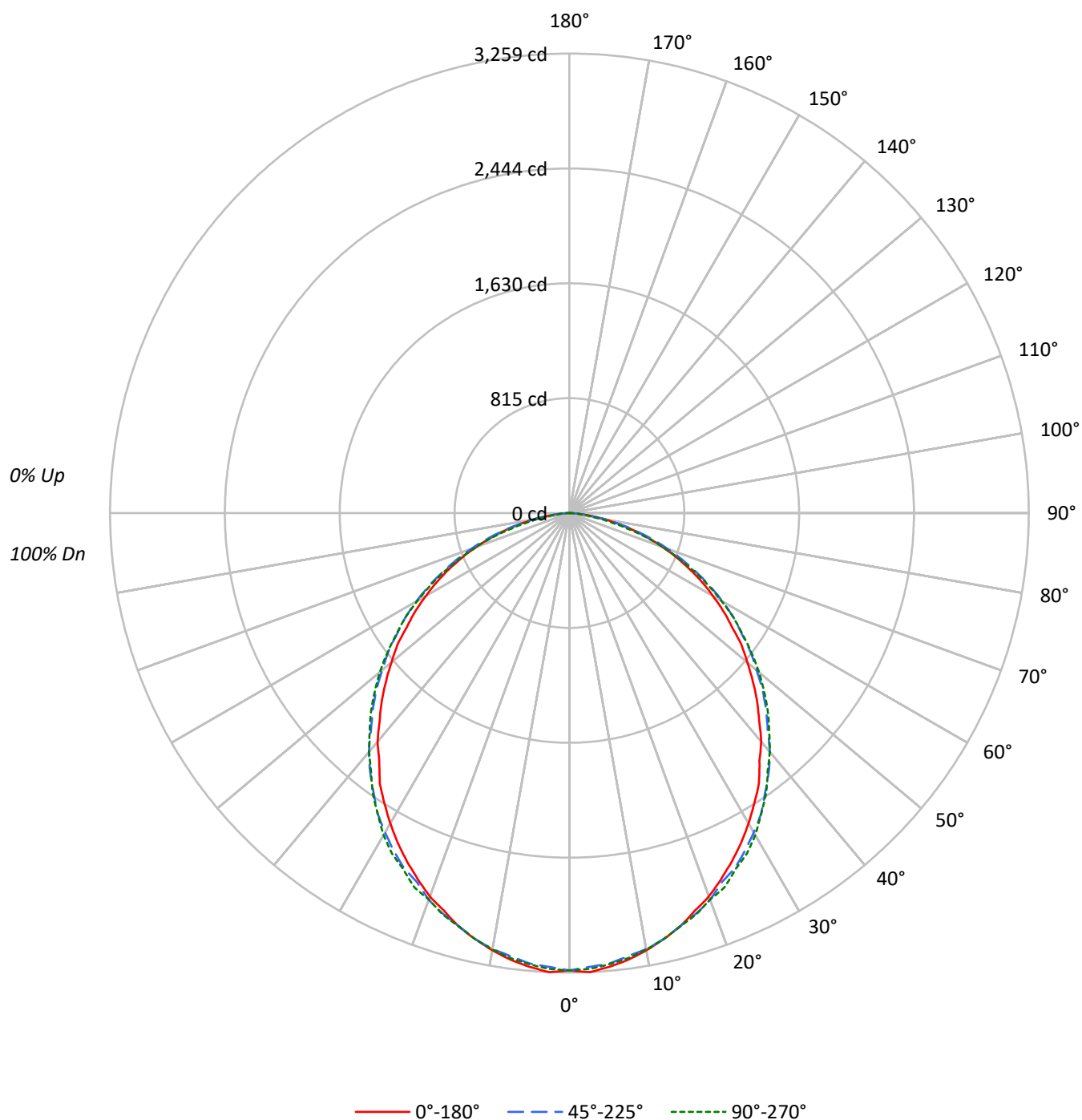
Lumens per Lamp: N/A
Luminaire Lumens: 8330.8 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		60
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		31
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4364	4364	4364
5°	4364	4333	4340
10°	4303	4288	4293
15°	4229	4224	4226
20°	4144	4179	4177
25°	4046	4125	4138
30°	3948	4064	4097
35°	3851	3976	3993
40°	3719	3887	3884
45°	3583	3752	3789
50°	3448	3626	3675
55°	3303	3498	3519
60°	3164	3374	3350
65°	2998	3167	3105
70°	2762	2909	2777
75°	2443	2544	2222
80°	1965	1992	1553
85°	1286	1232	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	3.7
10°-20°	857.2	10.3
20°-30°	1276.2	15.3
30°-40°	1502.2	18.0
40°-50°	1506.1	18.1
50°-60°	1320.8	15.9
60°-70°	965.8	11.6
70°-80°	497.7	6.0
80°-90°	99.9	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°	2438.3	29.3
0°-40°	3940.5	47.3
0°-60°	6767.4	81.2
0°-90°	8330.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8330.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3243	3243	3243	3243	3243	
5°	3231	3210	3208	3229	3213	306
15°	3036	3041	3032	3052	3034	854
25°	2726	2738	2779	2818	2788	1255
35°	2344	2355	2421	2447	2431	1460
45°	1883	1892	1972	1997	1991	1451
55°	1408	1440	1491	1513	1500	1264
65°	942	963	995	991	975	931
75°	470	474	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°	3243.4	3243.4	3243.4	3243.4	3243.4
2.5°	3259.3	3243.4	3222.1	3239.8	3236.3
5°	3231.0	3209.7	3207.9	3229.2	3213.2
7.5°	3195.5	3191.9	3170.7	3193.7	3184.8
10°	3149.4	3145.8	3138.7	3154.7	3142.3
12.5°	3094.4	3090.9	3094.4	3103.3	3094.4
15°	3035.9	3041.2	3032.3	3051.9	3034.1
17.5°	2957.9	2963.2	2980.9	2988.0	2986.2
20°	2894.0	2897.6	2918.9	2947.2	2917.1
22.5°	2810.7	2819.5	2830.2	2881.6	2874.5
25°	2725.6	2738.0	2778.8	2817.8	2787.6
27.5°	2636.9	2649.3	2699.0	2727.3	2723.8
30°	2541.1	2553.6	2615.6	2654.6	2636.9
32.5°	2441.8	2463.1	2530.5	2564.2	2530.5
35°	2344.3	2354.9	2420.6	2447.2	2431.2
37.5°	2214.9	2255.6	2321.3	2339.0	2310.6
40°	2117.3	2119.1	2213.1	2213.1	2211.3
42.5°	1991.4	2019.8	2081.9	2115.5	2097.8
45°	1883.2	1892.1	1971.9	1996.7	1991.4
47.5°	1764.4	1799.9	1858.4	1886.8	1872.6
50°	1647.4	1672.2	1732.5	1769.8	1755.6
52.5°	1539.2	1558.7	1620.8	1642.1	1627.9
55°	1408.0	1439.9	1491.3	1512.6	1500.2
57.5°	1294.5	1317.6	1381.4	1388.5	1381.4
60°	1175.7	1202.3	1253.7	1259.0	1244.9
62.5°	1062.2	1079.9	1126.0	1127.8	1111.9
65°	941.6	962.9	994.8	991.3	975.3
67.5°	822.8	837.0	867.1	854.7	837.0
70°	702.2	714.6	739.5	721.7	705.8
72.5°	585.2	594.1	615.3	588.7	569.2
75°	469.9	473.5	489.4	455.7	427.4
77.5°	356.4	360.0	368.8	335.2	303.2
80°	253.6	253.6	257.1	221.7	200.4
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	23.1	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)