

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: P487294

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-20-120-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: P487294
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-LD4-5LO-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

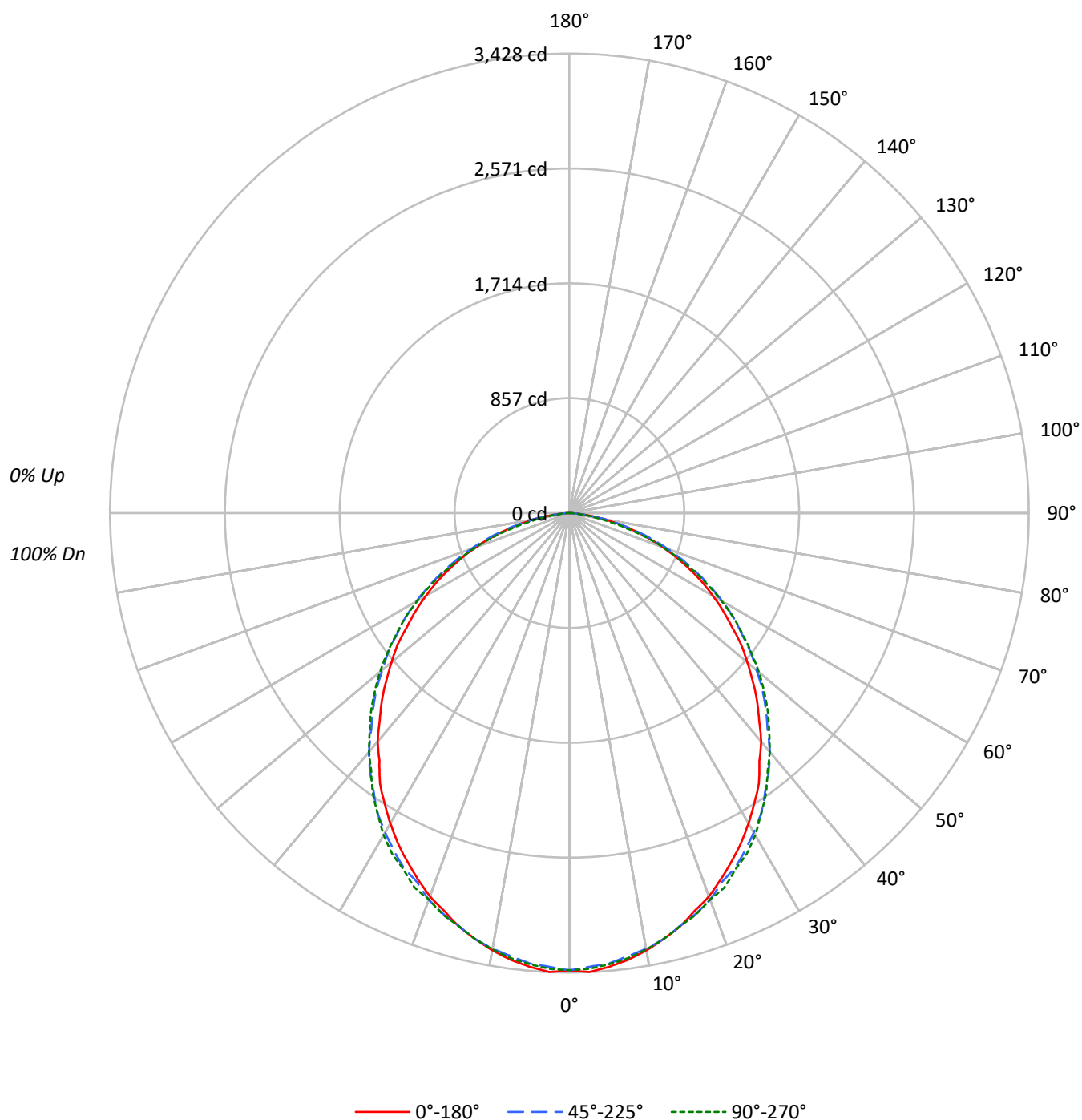
Lumens per Lamp: N/A
Luminaire Lumens: 8761.5 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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			
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°	4589	4589	4589
5°	4589	4557	4564
10°	4525	4510	4515
15°	4447	4442	4445
20°	4358	4395	4393
25°	4256	4339	4352
30°	4152	4274	4309
35°	4050	4181	4200
40°	3911	4088	4085
45°	3769	3946	3985
50°	3627	3814	3865
55°	3474	3679	3701
60°	3327	3548	3523
65°	3153	3331	3266
70°	2905	3059	2920
75°	2569	2676	2337
80°	2066	2095	1633
85°	1354	1295	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	3.7
10°-20°	901.5	10.3
20°-30°	1342.2	15.3
30°-40°	1579.9	18.0
40°-50°	1584.0	18.1
50°-60°	1389.0	15.9
60°-70°	1015.7	11.6
70°-80°	523.5	6.0
80°-90°	105.0	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°	2564.4	29.3
0°-40°	4144.2	47.3
0°-60°	7117.3	81.2
0°-90°	8761.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8761.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3411	3411	3411	3411	3411	
5°	3398	3376	3374	3396	3379	322
15°	3193	3198	3189	3210	3191	899
25°	2866	2880	2922	2964	2932	1320
35°	2466	2477	2546	2574	2557	1535
45°	1981	1990	2074	2100	2094	1526
55°	1481	1514	1568	1591	1578	1329
65°	990	1013	1046	1042	1026	980
75°	494	498	515	479	450	524
85°	88	86	84	67	62	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3411.0	3411.0	3411.0	3411.0	3411.0
2.5°	3427.8	3411.0	3388.7	3407.3	3403.6
5°	3398.0	3375.6	3373.7	3396.1	3379.3
7.5°	3360.7	3357.0	3334.6	3358.8	3349.5
10°	3312.2	3308.5	3301.0	3317.8	3304.7
12.5°	3254.4	3250.7	3254.4	3263.7	3254.4
15°	3192.8	3198.4	3189.1	3209.6	3191.0
17.5°	3110.8	3116.4	3135.0	3142.5	3140.6
20°	3043.6	3047.4	3069.8	3099.6	3067.9
22.5°	2956.0	2965.3	2976.5	3030.6	3023.1
25°	2866.5	2879.5	2922.4	2963.5	2931.7
27.5°	2773.2	2786.3	2838.5	2868.3	2864.6
30°	2672.5	2685.6	2750.8	2791.9	2773.2
32.5°	2568.1	2590.5	2661.3	2696.8	2661.3
35°	2465.5	2476.7	2545.7	2573.7	2556.9
37.5°	2329.4	2372.3	2441.3	2459.9	2430.1
40°	2226.8	2228.7	2327.5	2327.5	2325.6
42.5°	2094.4	2124.2	2189.5	2224.9	2206.3
45°	1980.6	1989.9	2073.9	2100.0	2094.4
47.5°	1855.7	1893.0	1954.5	1984.3	1969.4
50°	1732.6	1758.7	1822.1	1861.3	1846.3
52.5°	1618.8	1639.3	1704.6	1727.0	1712.1
55°	1480.8	1514.4	1568.4	1590.8	1577.8
57.5°	1361.4	1385.7	1452.8	1460.3	1452.8
60°	1236.5	1264.5	1318.5	1324.1	1309.2
62.5°	1117.1	1135.8	1184.3	1186.1	1169.3
65°	990.3	1012.7	1046.3	1042.5	1025.7
67.5°	865.4	880.3	912.0	898.9	880.3
70°	738.5	751.6	777.7	759.0	742.3
72.5°	615.4	624.8	647.1	619.2	598.7
75°	494.2	497.9	514.7	479.3	449.5
77.5°	374.9	378.6	387.9	352.5	318.9
80°	266.7	266.7	270.4	233.1	210.7
82.5°	167.8	167.8	166.0	138.0	125.0
85°	87.7	85.8	83.9	67.1	61.5
87.5°	31.7	31.7	26.1	24.2	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)