

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: P487305

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-50-120-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: P487305
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-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

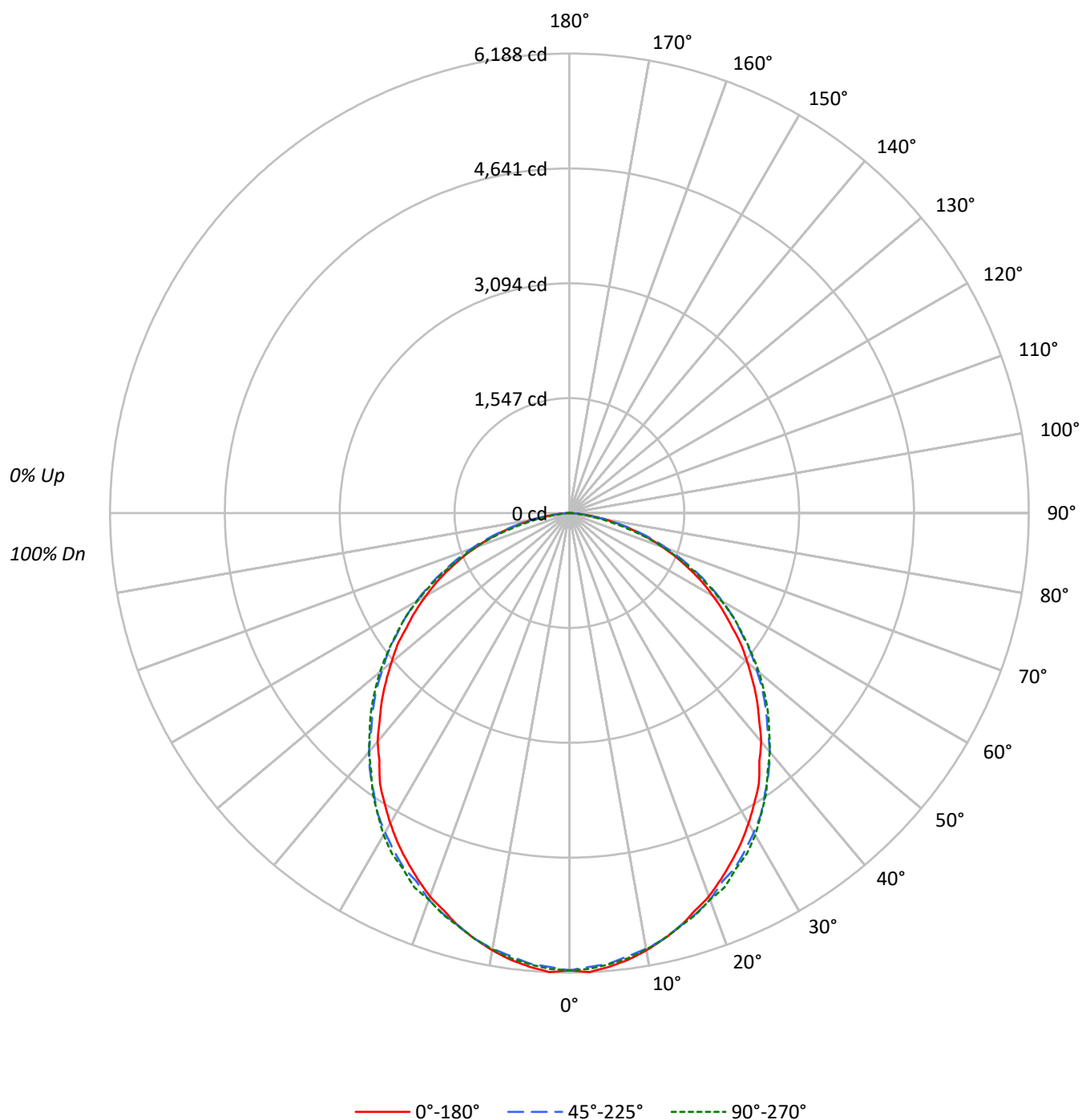
Lumens per Lamp: N/A
Luminaire Lumens: 15816.1 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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°	8285	8285	8285
5°	8285	8226	8239
10°	8169	8141	8151
15°	8029	8019	8024
20°	7867	7935	7930
25°	7682	7832	7857
30°	7495	7715	7778
35°	7310	7548	7581
40°	7060	7380	7374
45°	6803	7124	7194
50°	6547	6885	6977
55°	6271	6642	6681
60°	6007	6405	6360
65°	5691	6013	5895
70°	5245	5523	5271
75°	4638	4831	4218
80°	3730	3783	2947
85°	2442	2339	1715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.8	3.7
10°-20°	1627.4	10.3
20°-30°	2422.9	15.3
30°-40°	2851.9	18.0
40°-50°	2859.4	18.1
50°-60°	2507.5	15.9
60°-70°	1833.5	11.6
70°-80°	944.9	6.0
80°-90°	189.6	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°	4629.2	29.3
0°-40°	7481.1	47.3
0°-60°	12848.0	81.2
0°-90°	15816.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15816.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6158	6158	6158	6158	6158	
5°	6134	6094	6090	6131	6100	581
15°	5764	5774	5757	5794	5760	1622
25°	5174	5198	5276	5350	5292	2384
35°	4451	4471	4595	4646	4616	2772
45°	3575	3592	3744	3791	3781	2755
55°	2673	2734	2831	2872	2848	2399
65°	1788	1828	1889	1882	1852	1768
75°	892	899	929	865	811	945
85°	158	155	152	121	111	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6157.6	6157.6	6157.6	6157.6	6157.6
2.5°	6187.9	6157.6	6117.2	6150.8	6144.1
5°	6134.0	6093.6	6090.2	6130.6	6100.3
7.5°	6066.7	6059.9	6019.5	6063.3	6046.5
10°	5979.1	5972.4	5958.9	5989.2	5965.7
12.5°	5874.8	5868.0	5874.8	5891.6	5874.8
15°	5763.7	5773.8	5756.9	5794.0	5760.3
17.5°	5615.5	5625.6	5659.3	5672.8	5669.4
20°	5494.3	5501.1	5541.5	5595.3	5538.1
22.5°	5336.1	5352.9	5373.1	5470.8	5457.3
25°	5174.5	5198.1	5275.5	5349.6	5292.3
27.5°	5006.2	5029.7	5124.0	5177.9	5171.1
30°	4824.4	4847.9	4965.8	5039.8	5006.2
32.5°	4635.8	4676.2	4804.2	4868.1	4804.2
35°	4450.7	4470.9	4595.4	4645.9	4615.6
37.5°	4204.9	4282.4	4406.9	4440.6	4386.7
40°	4019.8	4023.1	4201.6	4201.6	4198.2
42.5°	3780.7	3834.6	3952.4	4016.4	3982.7
45°	3575.4	3592.2	3743.7	3790.8	3780.7
47.5°	3349.8	3417.1	3528.2	3582.1	3555.2
50°	3127.6	3174.7	3289.2	3359.9	3333.0
52.5°	2922.2	2959.3	3077.1	3117.5	3090.6
55°	2673.1	2733.7	2831.3	2871.7	2848.2
57.5°	2457.6	2501.4	2622.6	2636.1	2622.6
60°	2232.1	2282.6	2380.2	2390.3	2363.4
62.5°	2016.6	2050.3	2137.8	2141.2	2110.9
65°	1787.7	1828.1	1888.7	1881.9	1851.6
67.5°	1562.1	1589.0	1646.3	1622.7	1589.0
70°	1333.2	1356.8	1403.9	1370.2	1339.9
72.5°	1111.0	1127.8	1168.2	1117.7	1080.7
75°	892.2	898.9	929.2	865.2	811.4
77.5°	676.7	683.4	700.3	636.3	575.7
80°	481.4	481.4	488.2	420.8	380.4
82.5°	303.0	303.0	299.6	249.1	225.6
85°	158.2	154.9	151.5	121.2	111.1
87.5°	57.2	57.2	47.1	43.8	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)