

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: P487335

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-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: P487335
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-LD4-6LO-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

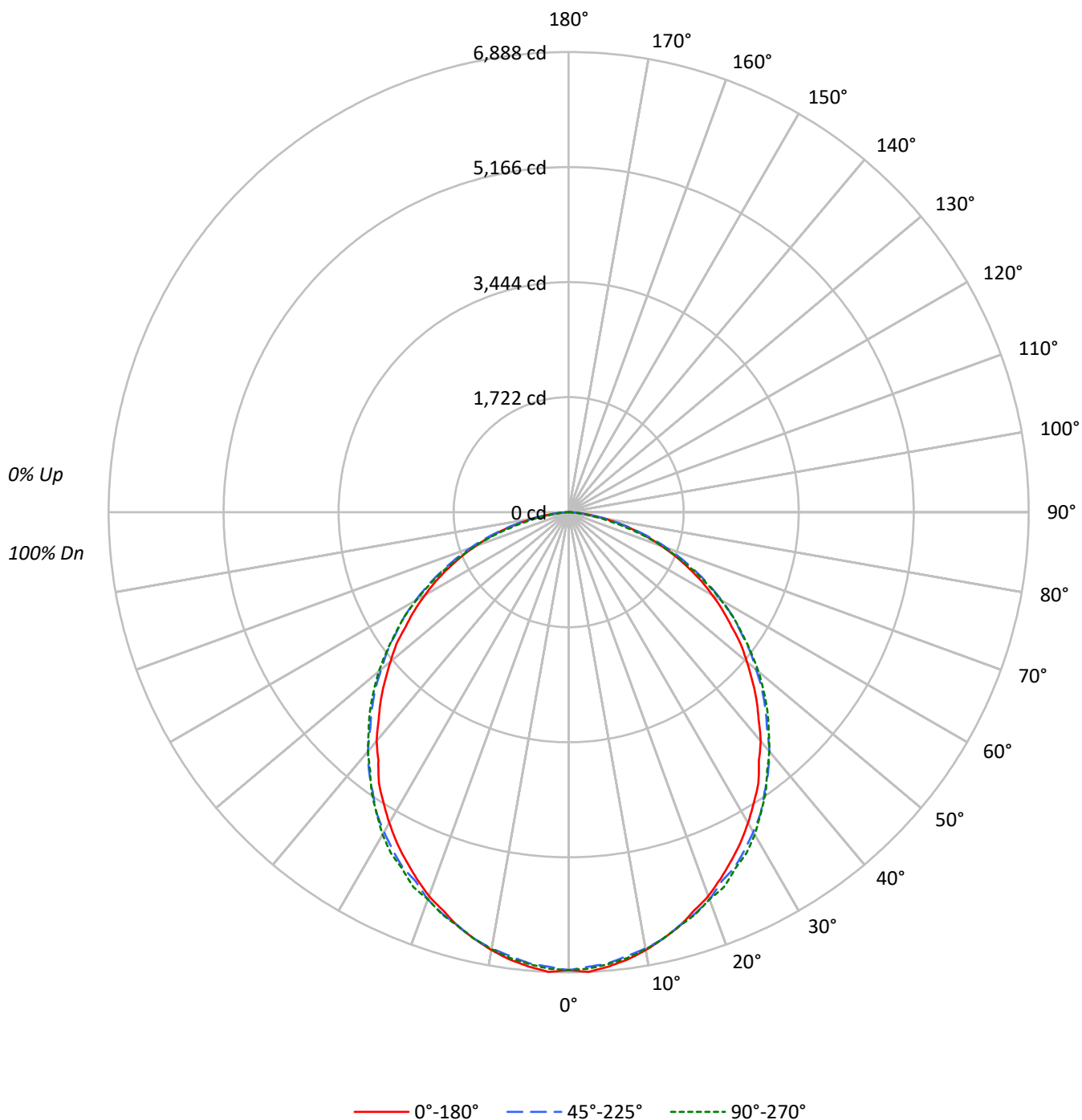
Lumens per Lamp: N/A
Luminaire Lumens: 17605.1 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	9222	9222	9222
5°	9222	9156	9171
10°	9093	9062	9073
15°	8937	8926	8931
20°	8757	8832	8827
25°	8551	8718	8746
30°	8343	8588	8657
35°	8137	8402	8439
40°	7859	8214	8208
45°	7573	7929	8008
50°	7287	7664	7766
55°	6980	7393	7437
60°	6686	7129	7079
65°	6335	6693	6562
70°	5838	6148	5867
75°	5163	5377	4695
80°	4152	4210	3281
85°	2719	2603	1910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.2	3.7
10°-20°	1811.5	10.3
20°-30°	2697.0	15.3
30°-40°	3174.5	18.0
40°-50°	3182.9	18.1
50°-60°	2791.1	15.9
60°-70°	2040.9	11.6
70°-80°	1051.8	6.0
80°-90°	211.0	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°	5152.8	29.3
0°-40°	8327.3	47.3
0°-60°	14301.3	81.2
0°-90°	17605.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17605.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6854	6854	6854	6854	6854	
5°	6828	6783	6779	6824	6790	646
15°	6416	6427	6408	6449	6412	1806
25°	5760	5786	5872	5955	5891	2653
35°	4954	4977	5115	5172	5138	3085
45°	3980	3998	4167	4220	4208	3067
55°	2976	3043	3152	3197	3170	2671
65°	1990	2035	2102	2095	2061	1968
75°	993	1001	1034	963	903	1052
85°	176	172	169	135	124	230
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6854.1	6854.1	6854.1	6854.1	6854.1
2.5°	6887.8	6854.1	6809.1	6846.6	6839.1
5°	6827.8	6782.9	6779.1	6824.1	6790.4
7.5°	6752.9	6745.4	6700.4	6749.1	6730.4
10°	6655.4	6648.0	6633.0	6666.7	6640.5
12.5°	6539.3	6531.8	6539.3	6558.0	6539.3
15°	6415.6	6426.9	6408.1	6449.3	6411.9
17.5°	6250.7	6262.0	6299.4	6314.4	6310.7
20°	6115.8	6123.3	6168.3	6228.2	6164.5
22.5°	5939.7	5958.4	5980.9	6089.6	6074.6
25°	5759.8	5786.0	5872.2	5954.7	5891.0
27.5°	5572.4	5598.7	5703.6	5763.6	5756.1
30°	5370.1	5396.3	5527.5	5609.9	5572.4
32.5°	5160.2	5205.2	5347.6	5418.8	5347.6
35°	4954.1	4976.6	5115.2	5171.5	5137.7
37.5°	4680.5	4766.7	4905.4	4942.9	4882.9
40°	4474.4	4478.2	4676.8	4676.8	4673.1
42.5°	4208.4	4268.3	4399.5	4470.7	4433.2
45°	3979.8	3998.5	4167.1	4219.6	4208.4
47.5°	3728.7	3803.6	3927.3	3987.3	3957.3
50°	3481.4	3533.8	3661.2	3739.9	3710.0
52.5°	3252.8	3294.0	3425.2	3470.1	3440.1
55°	2975.5	3042.9	3151.6	3196.6	3170.3
57.5°	2735.6	2784.3	2919.3	2934.2	2919.3
60°	2484.5	2540.8	2649.4	2660.7	2630.7
62.5°	2244.7	2282.2	2379.6	2383.4	2349.6
65°	1989.9	2034.9	2102.3	2094.8	2061.1
67.5°	1738.8	1768.8	1832.5	1806.3	1768.8
70°	1484.0	1510.2	1562.7	1525.2	1491.5
72.5°	1236.7	1255.4	1300.4	1244.1	1202.9
75°	993.1	1000.6	1034.3	963.1	903.1
77.5°	753.2	760.7	779.5	708.3	640.8
80°	535.9	535.9	543.4	468.4	423.5
82.5°	337.3	337.3	333.5	277.3	251.1
85°	176.1	172.4	168.6	134.9	123.7
87.5°	63.7	63.7	52.5	48.7	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)