

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: P487341

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-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: P487341
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-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

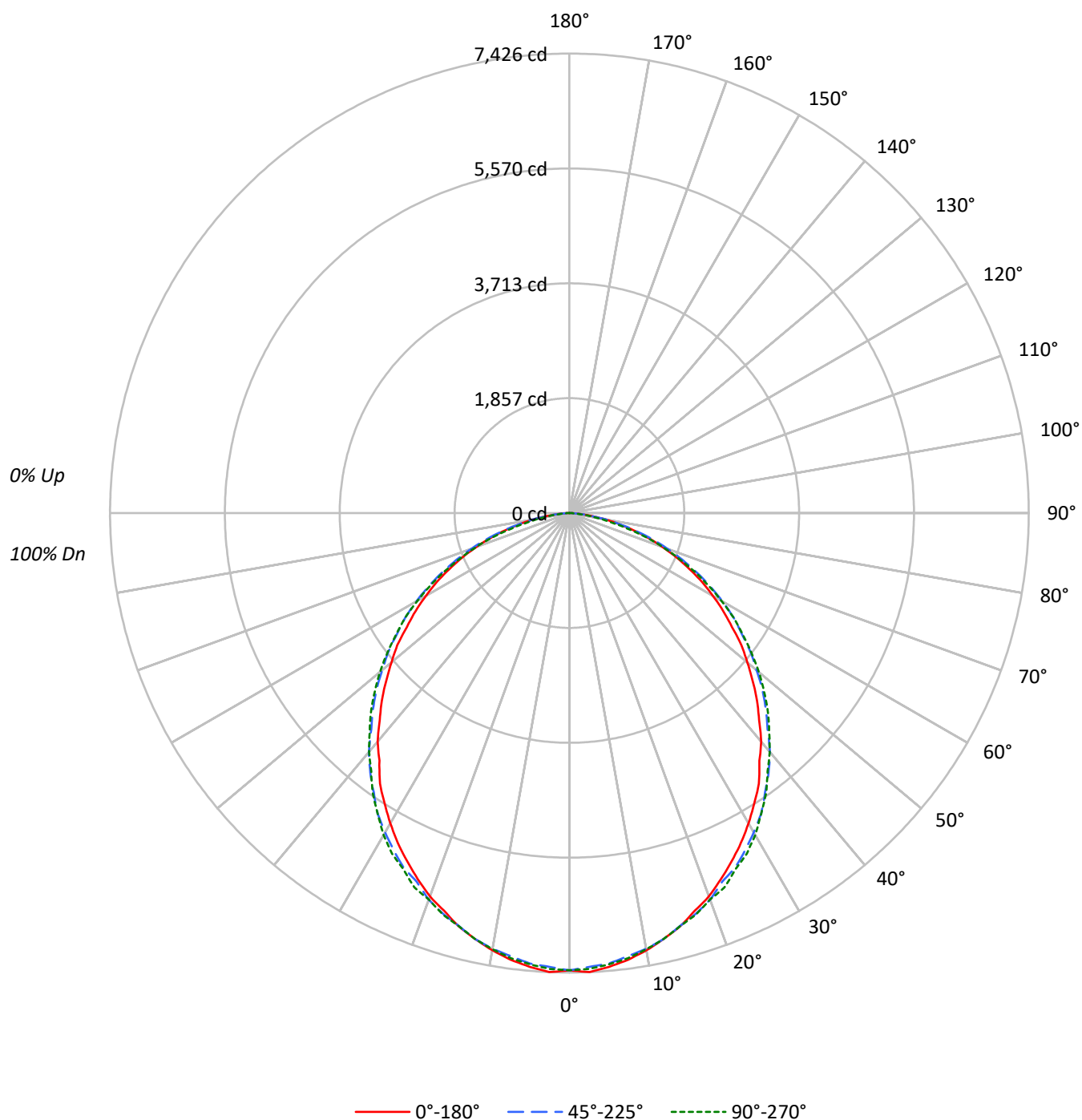
Lumens per Lamp: N/A
Luminaire Lumens: 18979.4 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9942	9942	9942
5°	9942	9871	9887
10°	9803	9770	9781
15°	9634	9623	9629
20°	9440	9521	9516
25°	9218	9398	9428
30°	8994	9258	9333
35°	8772	9058	9098
40°	8472	8856	8848
45°	8164	8548	8633
50°	7856	8262	8372
55°	7525	7970	8017
60°	7208	7686	7632
65°	6830	7216	7074
70°	6294	6628	6325
75°	5566	5796	5061
80°	4476	4539	3537
85°	2932	2807	2058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.5	3.7
10°-20°	1952.9	10.3
20°-30°	2907.5	15.3
30°-40°	3422.4	18.0
40°-50°	3431.3	18.1
50°-60°	3009.0	15.9
60°-70°	2200.3	11.6
70°-80°	1133.9	6.0
80°-90°	227.5	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°	5555.0	29.3
0°-40°	8977.4	47.3
0°-60°	15417.7	81.2
0°-90°	18979.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18979.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7389	7389	7389	7389	7389	
5°	7361	7312	7308	7357	7320	697
15°	6916	6928	6908	6953	6912	1947
25°	6209	6238	6331	6420	6351	2860
35°	5341	5365	5515	5575	5539	3326
45°	4290	4311	4492	4549	4537	3306
55°	3208	3280	3398	3446	3418	2879
65°	2145	2194	2266	2258	2222	2122
75°	1071	1079	1115	1038	974	1134
85°	190	186	182	145	133	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7389.1	7389.1	7389.1	7389.1	7389.1
2.5°	7425.5	7389.1	7340.6	7381.0	7372.9
5°	7360.8	7312.3	7308.3	7356.8	7320.4
7.5°	7280.0	7271.9	7223.5	7276.0	7255.8
10°	7175.0	7166.9	7150.7	7187.1	7158.8
12.5°	7049.7	7041.7	7049.7	7069.9	7049.7
15°	6916.4	6928.5	6908.3	6952.8	6912.4
17.5°	6738.7	6750.8	6791.2	6807.4	6803.3
20°	6593.2	6601.3	6649.8	6714.4	6645.8
22.5°	6403.4	6423.6	6447.8	6565.0	6548.8
25°	6209.4	6237.7	6330.6	6419.5	6350.8
27.5°	6007.4	6035.7	6148.8	6213.5	6205.4
30°	5789.3	5817.6	5959.0	6047.8	6007.4
32.5°	5563.0	5611.5	5765.0	5841.8	5765.0
35°	5340.8	5365.1	5514.6	5575.2	5538.8
37.5°	5045.9	5138.8	5288.3	5328.7	5264.1
40°	4823.7	4827.8	5041.9	5041.9	5037.8
42.5°	4536.9	4601.5	4742.9	4819.7	4779.3
45°	4290.4	4310.6	4492.4	4549.0	4536.9
47.5°	4019.8	4100.6	4233.9	4298.5	4266.2
50°	3753.1	3809.7	3947.1	4031.9	3999.6
52.5°	3506.7	3551.1	3692.5	3741.0	3708.7
55°	3207.7	3280.5	3397.6	3446.1	3417.8
57.5°	2949.2	3001.7	3147.1	3163.3	3147.1
60°	2678.5	2739.1	2856.3	2868.4	2836.1
62.5°	2419.9	2460.3	2565.4	2569.4	2533.1
65°	2145.2	2193.7	2266.4	2258.3	2222.0
67.5°	1874.5	1906.9	1975.5	1947.3	1906.9
70°	1599.8	1628.1	1684.7	1644.3	1607.9
72.5°	1333.2	1353.4	1401.9	1341.3	1296.8
75°	1070.6	1078.7	1115.0	1038.3	973.6
77.5°	812.0	820.1	840.3	763.6	690.8
80°	577.7	577.7	585.8	505.0	456.5
82.5°	363.6	363.6	359.6	299.0	270.7
85°	189.9	185.8	181.8	145.4	133.3
87.5°	68.7	68.7	56.6	52.5	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)