

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: P487268

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-50-120-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: P487268
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-LD4-4LO-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

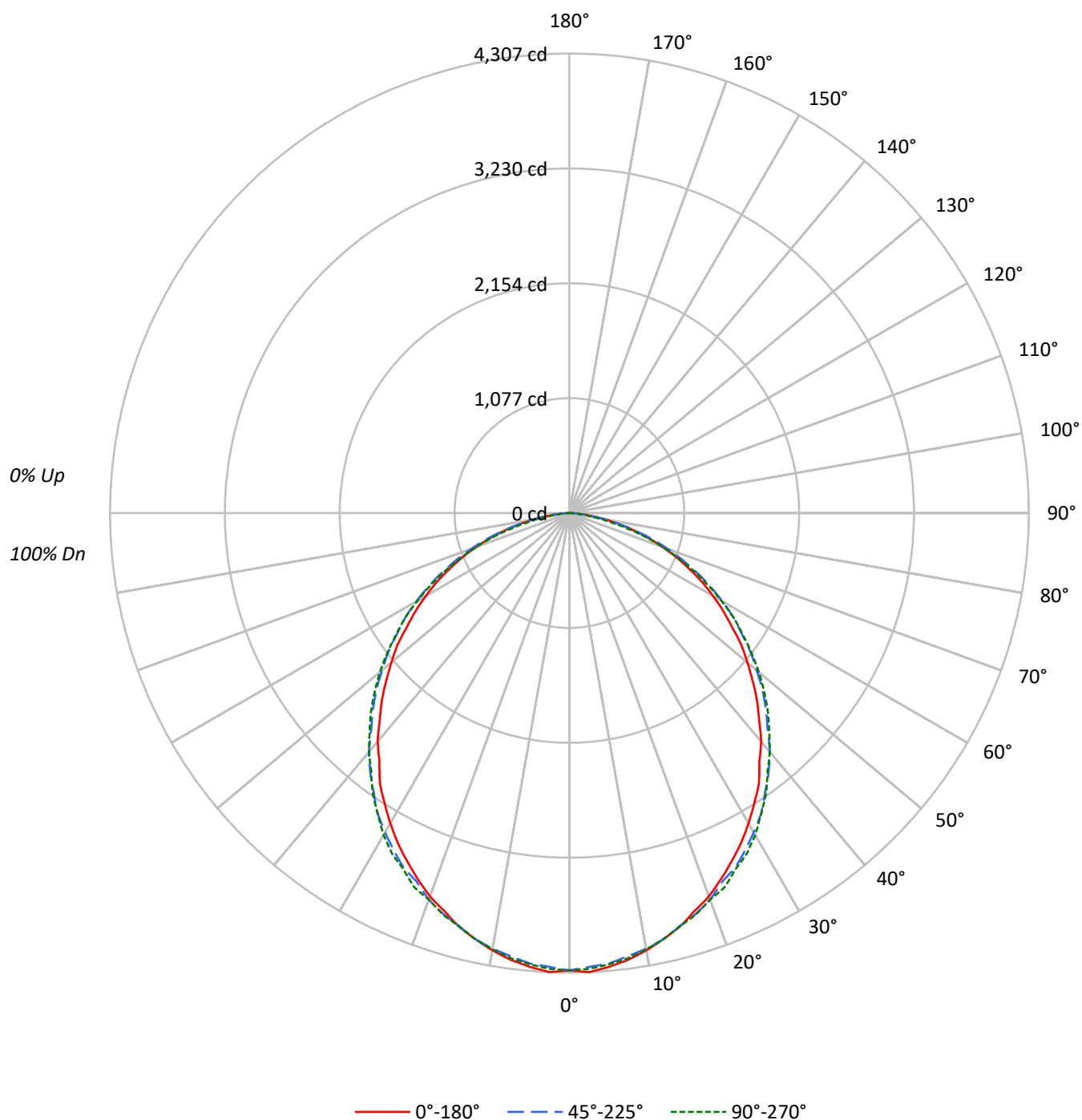
Lumens per Lamp: N/A
Luminaire Lumens: 11008.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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		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°	5766	5766	5766
5°	5766	5725	5735
10°	5686	5666	5673
15°	5588	5581	5585
20°	5475	5522	5519
25°	5347	5451	5468
30°	5217	5370	5413
35°	5088	5253	5277
40°	4914	5136	5132
45°	4735	4958	5007
50°	4556	4792	4856
55°	4364	4623	4650
60°	4180	4458	4426
65°	3961	4185	4103
70°	3650	3844	3669
75°	3228	3362	2936
80°	2596	2633	2052
85°	1700	1627	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	3.7
10°-20°	1132.7	10.3
20°-30°	1686.4	15.3
30°-40°	1985.0	18.0
40°-50°	1990.2	18.1
50°-60°	1745.2	15.9
60°-70°	1276.1	11.6
70°-80°	657.7	6.0
80°-90°	132.0	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°	3221.9	29.3
0°-40°	5206.8	47.3
0°-60°	8942.2	81.2
0°-90°	11008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4286	4286	4286	4286	4286	
5°	4269	4241	4239	4267	4246	404
15°	4012	4018	4007	4033	4009	1129
25°	3602	3618	3672	3723	3684	1659
35°	3098	3112	3198	3234	3212	1929
45°	2488	2500	2606	2638	2631	1918
55°	1860	1903	1971	1999	1982	1670
65°	1244	1272	1314	1310	1289	1231
75°	621	626	647	602	565	658
85°	110	108	105	84	77	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4285.7	4285.7	4285.7	4285.7	4285.7
2.5°	4306.7	4285.7	4257.5	4281.0	4276.3
5°	4269.3	4241.1	4238.8	4266.9	4245.8
7.5°	4222.4	4217.7	4189.6	4220.1	4208.3
10°	4161.5	4156.8	4147.4	4168.5	4152.1
12.5°	4088.8	4084.1	4088.8	4100.6	4088.8
15°	4011.5	4018.5	4006.8	4032.6	4009.2
17.5°	3908.4	3915.4	3938.9	3948.2	3945.9
20°	3824.1	3828.7	3856.9	3894.4	3854.5
22.5°	3713.9	3725.6	3739.7	3807.7	3798.3
25°	3601.5	3617.9	3671.8	3723.3	3683.5
27.5°	3484.3	3500.7	3566.3	3603.8	3599.1
30°	3357.8	3374.2	3456.2	3507.7	3484.3
32.5°	3226.5	3254.7	3343.7	3388.2	3343.7
35°	3097.7	3111.7	3198.4	3233.6	3212.5
37.5°	2926.6	2980.5	3067.2	3090.6	3053.2
40°	2797.7	2800.1	2924.3	2924.3	2921.9
42.5°	2631.4	2668.9	2750.9	2795.4	2772.0
45°	2488.4	2500.2	2605.6	2638.4	2631.4
47.5°	2331.5	2378.3	2455.6	2493.1	2474.4
50°	2176.8	2209.6	2289.3	2338.5	2319.7
52.5°	2033.9	2059.6	2141.7	2169.8	2151.0
55°	1860.5	1902.7	1970.6	1998.7	1982.3
57.5°	1710.5	1741.0	1825.3	1834.7	1825.3
60°	1553.5	1588.7	1656.6	1663.7	1644.9
62.5°	1403.6	1427.0	1487.9	1490.3	1469.2
65°	1244.2	1272.3	1314.5	1309.8	1288.7
67.5°	1087.2	1106.0	1145.8	1129.4	1106.0
70°	927.9	944.3	977.1	953.7	932.6
72.5°	773.2	785.0	813.1	777.9	752.2
75°	620.9	625.6	646.7	602.2	564.7
77.5°	471.0	475.7	487.4	442.9	400.7
80°	335.1	335.1	339.8	292.9	264.8
82.5°	210.9	210.9	208.5	173.4	157.0
85°	110.1	107.8	105.4	84.4	77.3
87.5°	39.8	39.8	32.8	30.5	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)