

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: P487314

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-40-120-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: P487314
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-LD4-5STD-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

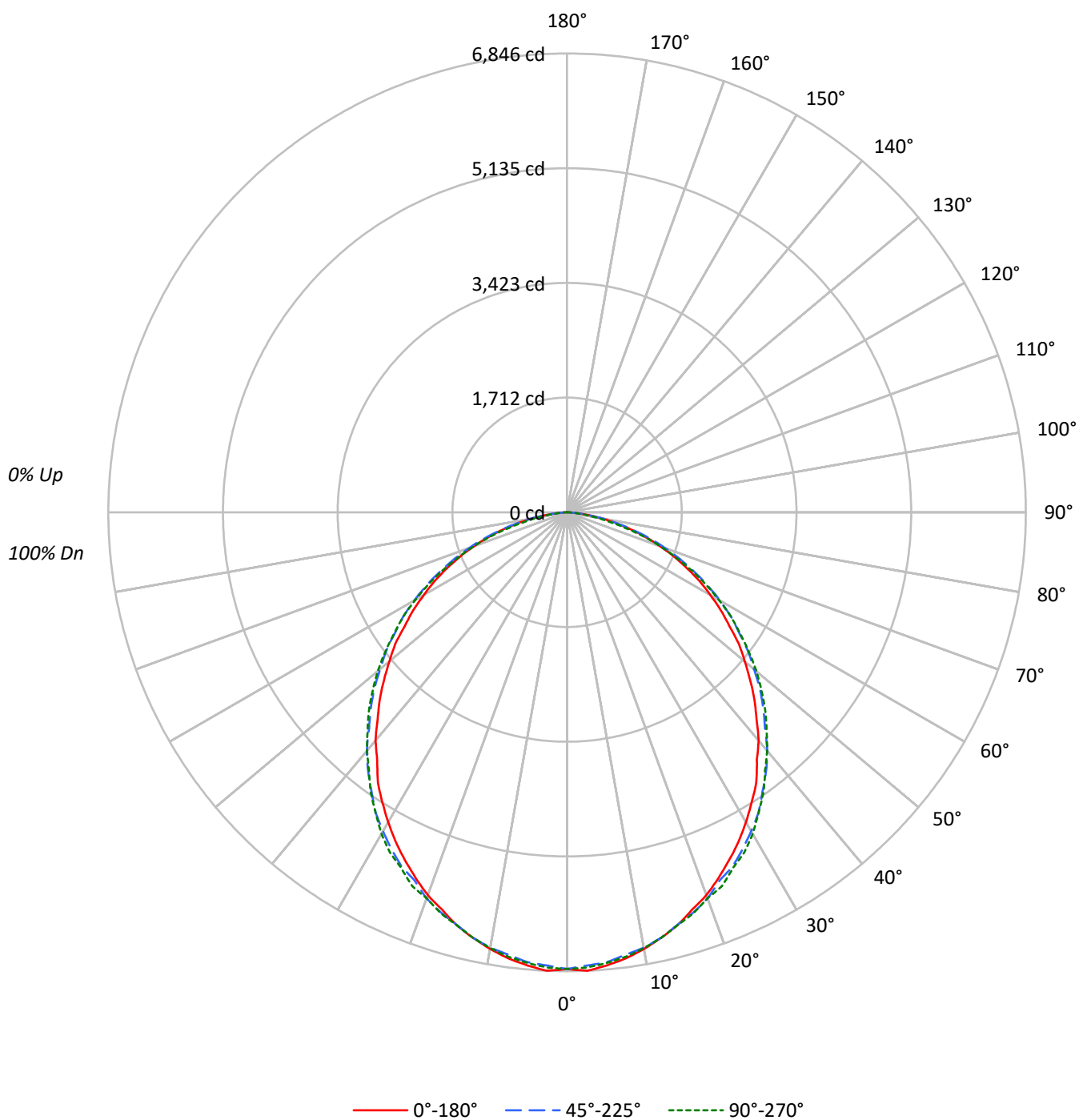
Lumens per Lamp: N/A
Luminaire Lumens: 17499.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	9167	9167	9167
5°	9167	9101	9116
10°	9038	9008	9018
15°	8883	8873	8878
20°	8704	8779	8774
25°	8500	8666	8693
30°	8293	8536	8606
35°	8089	8352	8388
40°	7812	8165	8159
45°	7527	7882	7960
50°	7244	7618	7719
55°	6938	7349	7392
60°	6646	7087	7037
65°	6297	6653	6522
70°	5803	6111	5832
75°	5132	5345	4667
80°	4128	4185	3261
85°	2703	2587	1897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.4	3.7
10°-20°	1800.7	10.3
20°-30°	2680.8	15.3
30°-40°	3155.5	18.0
40°-50°	3163.8	18.1
50°-60°	2774.4	15.9
60°-70°	2028.7	11.6
70°-80°	1045.5	6.0
80°-90°	209.7	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°	5121.9	29.3
0°-40°	8277.4	47.3
0°-60°	14215.5	81.2
0°-90°	17499.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17499.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6813	6813	6813	6813	6813	
5°	6787	6742	6738	6783	6750	642
15°	6377	6388	6370	6411	6373	1795
25°	5725	5751	5837	5919	5856	2637
35°	4924	4947	5085	5140	5107	3067
45°	3956	3974	4142	4194	4183	3049
55°	2958	3025	3133	3177	3151	2655
65°	1978	2023	2090	2082	2049	1957
75°	987	995	1028	957	898	1046
85°	175	171	168	134	123	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6812.9	6812.9	6812.9	6812.9	6812.9
2.5°	6846.5	6812.9	6768.2	6805.5	6798.0
5°	6786.9	6742.2	6738.4	6783.1	6749.6
7.5°	6712.4	6704.9	6660.2	6708.6	6690.0
10°	6615.5	6608.1	6593.2	6626.7	6600.6
12.5°	6500.1	6492.6	6500.1	6518.7	6500.1
15°	6377.1	6388.3	6369.7	6410.7	6373.4
17.5°	6213.2	6224.4	6261.7	6276.6	6272.8
20°	6079.1	6086.6	6131.3	6190.9	6127.6
22.5°	5904.1	5922.7	5945.0	6053.1	6038.2
25°	5725.3	5751.3	5837.0	5919.0	5855.6
27.5°	5539.0	5565.1	5669.4	5729.0	5721.5
30°	5337.9	5363.9	5494.3	5576.3	5539.0
32.5°	5129.3	5174.0	5315.5	5386.3	5315.5
35°	4924.4	4946.7	5084.6	5140.4	5106.9
37.5°	4652.5	4738.1	4876.0	4913.2	4853.6
40°	4447.6	4451.3	4648.7	4648.7	4645.0
42.5°	4183.1	4242.7	4373.1	4443.9	4406.6
45°	3955.9	3974.5	4142.2	4194.3	4183.1
47.5°	3706.3	3780.8	3903.8	3963.4	3933.6
50°	3460.5	3512.6	3639.3	3717.5	3687.7
52.5°	3233.3	3274.2	3404.6	3449.3	3419.5
55°	2957.6	3024.7	3132.7	3177.4	3151.3
57.5°	2719.2	2767.6	2901.7	2916.6	2901.7
60°	2469.6	2525.5	2633.5	2644.7	2614.9
62.5°	2231.2	2268.5	2365.3	2369.1	2335.5
65°	1978.0	2022.7	2089.7	2082.3	2048.7
67.5°	1728.4	1758.2	1821.5	1795.4	1758.2
70°	1475.1	1501.2	1553.3	1516.1	1482.5
72.5°	1229.2	1247.9	1292.6	1236.7	1195.7
75°	987.1	994.6	1028.1	957.3	897.7
77.5°	748.7	756.2	774.8	704.0	637.0
80°	532.7	532.7	540.1	465.6	420.9
82.5°	335.2	335.2	331.5	275.6	249.6
85°	175.1	171.3	167.6	134.1	122.9
87.5°	63.3	63.3	52.1	48.4	52.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)