

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: P487270

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-20-120-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: P487270
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-LD4-4STD-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

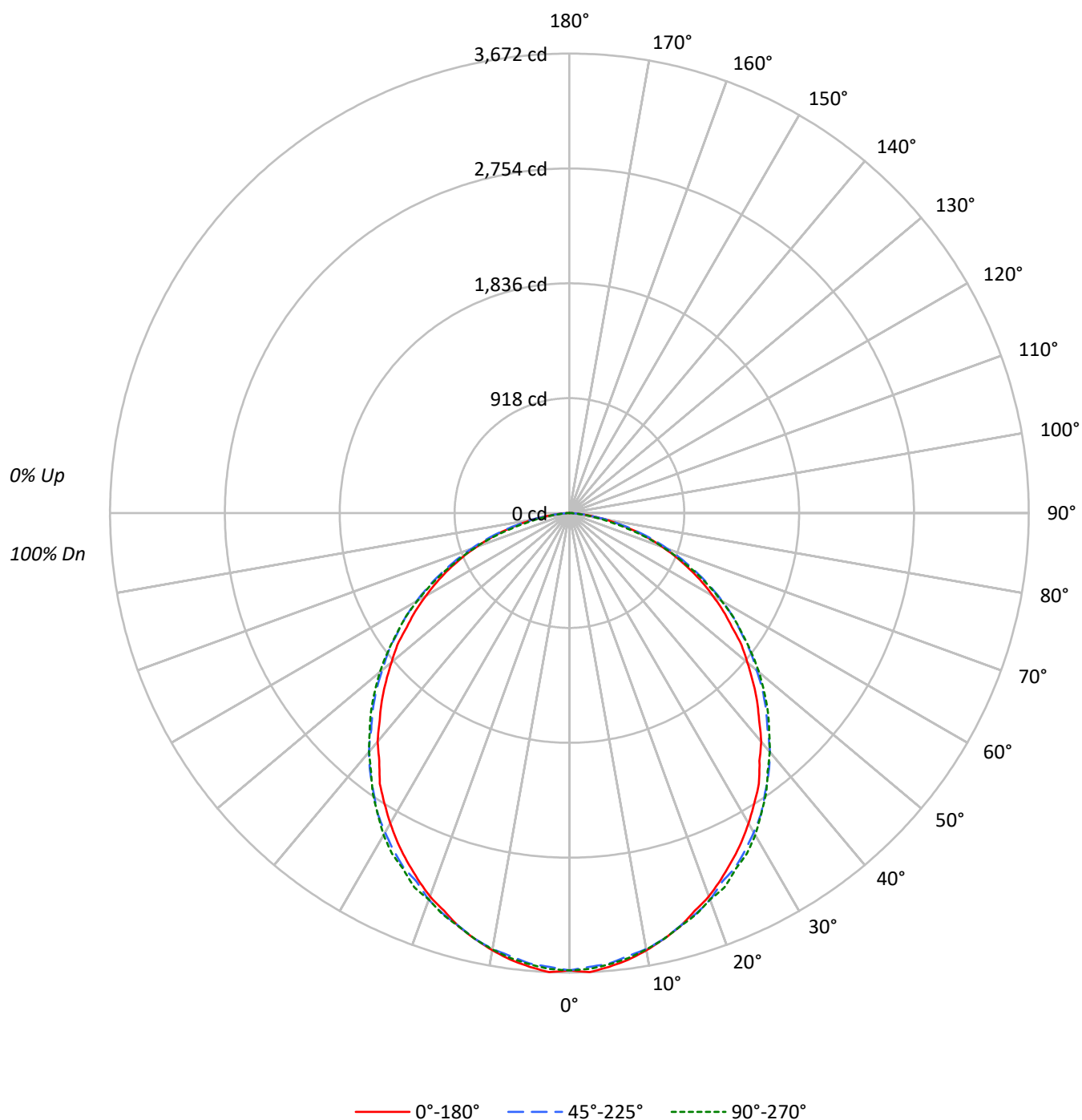
Lumens per Lamp: N/A
Luminaire Lumens: 9386.4 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4917	4917	4917
5°	4917	4882	4890
10°	4848	4832	4837
15°	4765	4759	4762
20°	4669	4709	4706
25°	4559	4648	4663
30°	4448	4579	4616
35°	4339	4480	4499
40°	4190	4380	4376
45°	4038	4228	4270
50°	3885	4086	4140
55°	3721	3942	3965
60°	3565	3801	3774
65°	3378	3569	3499
70°	3113	3278	3128
75°	2753	2866	2503
80°	2214	2245	1750
85°	1450	1388	1017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	3.7
10°-20°	965.8	10.3
20°-30°	1437.9	15.3
30°-40°	1692.6	18.0
40°-50°	1697.0	18.1
50°-60°	1488.1	15.9
60°-70°	1088.2	11.6
70°-80°	560.8	6.0
80°-90°	112.5	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°	2747.3	29.3
0°-40°	4439.8	47.3
0°-60°	7624.9	81.2
0°-90°	9386.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9386.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3654	3654	3654	3654	3654	
5°	3640	3616	3614	3638	3620	345
15°	3421	3427	3417	3439	3419	963
25°	3071	3085	3131	3175	3141	1415
35°	2641	2653	2727	2757	2739	1645
45°	2122	2132	2222	2250	2244	1635
55°	1586	1622	1680	1704	1690	1424
65°	1061	1085	1121	1117	1099	1049
75°	530	534	551	514	482	561
85°	94	92	90	72	66	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3654.3	3654.3	3654.3	3654.3	3654.3
2.5°	3672.3	3654.3	3630.4	3650.3	3646.3
5°	3640.3	3616.4	3614.4	3638.4	3620.4
7.5°	3600.4	3596.4	3572.4	3598.4	3588.4
10°	3548.4	3544.4	3536.5	3554.4	3540.5
12.5°	3486.5	3482.5	3486.5	3496.5	3486.5
15°	3420.6	3426.6	3416.6	3438.6	3418.6
17.5°	3332.7	3338.7	3358.6	3366.6	3364.6
20°	3260.7	3264.7	3288.7	3320.7	3286.7
22.5°	3166.8	3176.8	3188.8	3246.7	3238.8
25°	3070.9	3084.9	3130.9	3174.8	3140.9
27.5°	2971.0	2985.0	3041.0	3072.9	3068.9
30°	2863.1	2877.1	2947.0	2991.0	2971.0
32.5°	2751.2	2775.2	2851.1	2889.1	2851.1
35°	2641.4	2653.3	2727.3	2757.2	2739.3
37.5°	2495.5	2541.5	2615.4	2635.4	2603.4
40°	2385.6	2387.6	2493.5	2493.5	2491.5
42.5°	2243.8	2275.7	2345.6	2383.6	2363.6
45°	2121.9	2131.9	2221.8	2249.7	2243.8
47.5°	1988.0	2028.0	2093.9	2125.9	2109.9
50°	1856.1	1884.1	1952.0	1994.0	1978.0
52.5°	1734.3	1756.2	1826.2	1850.1	1834.2
55°	1586.4	1622.4	1680.3	1704.3	1690.3
57.5°	1458.5	1484.5	1556.4	1564.4	1556.4
60°	1324.7	1354.6	1412.6	1418.6	1402.6
62.5°	1196.8	1216.8	1268.7	1270.7	1252.7
65°	1060.9	1084.9	1120.9	1116.9	1098.9
67.5°	927.1	943.1	977.0	963.0	943.1
70°	791.2	805.2	833.2	813.2	795.2
72.5°	659.3	669.3	693.3	663.3	641.4
75°	529.5	533.5	551.4	513.5	481.5
77.5°	401.6	405.6	415.6	377.6	341.7
80°	285.7	285.7	289.7	249.7	225.8
82.5°	179.8	179.8	177.8	147.9	133.9
85°	93.9	91.9	89.9	71.9	65.9
87.5°	34.0	34.0	28.0	26.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)