

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: P487310

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-30-120-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: P487310
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-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

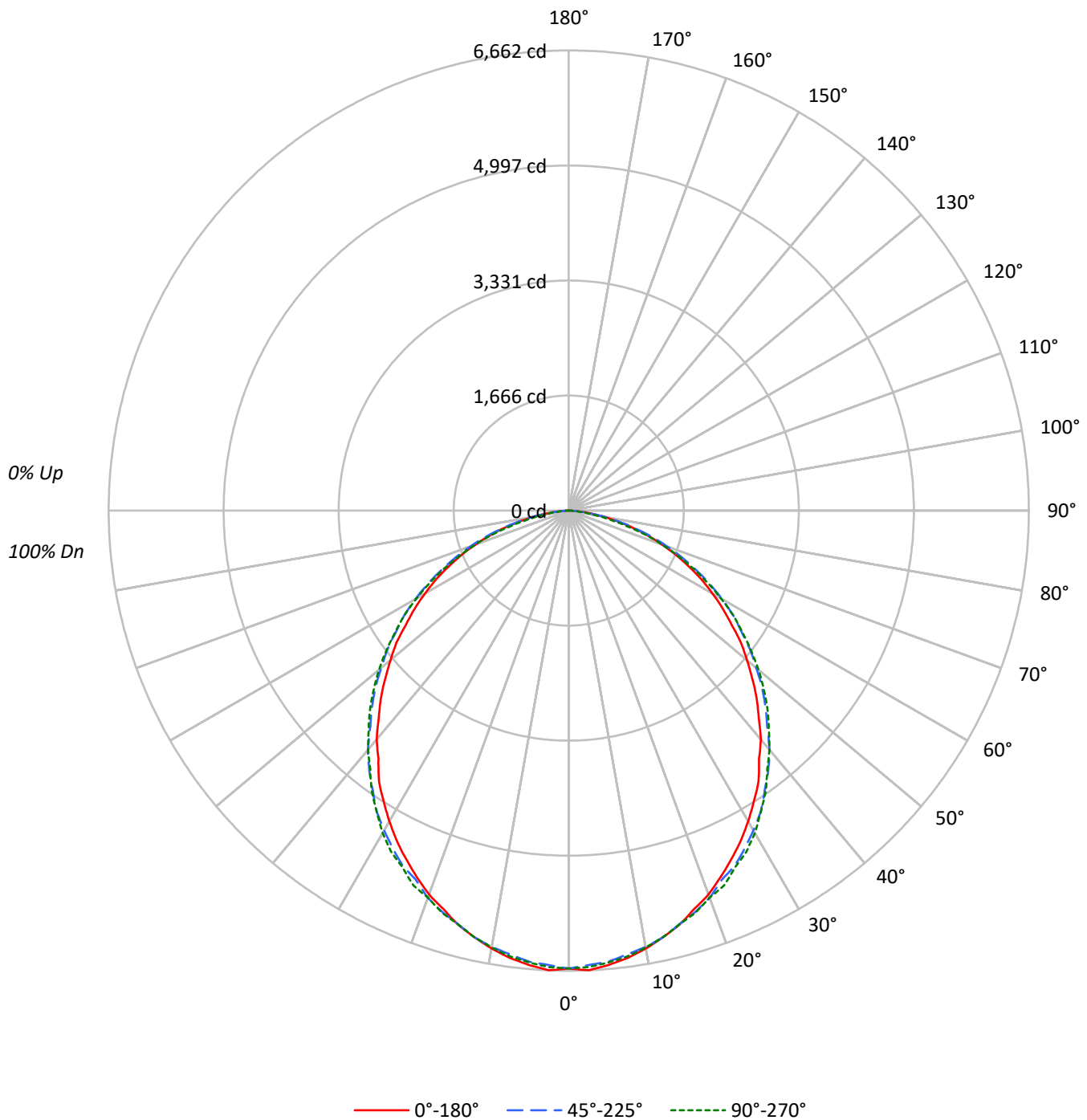
Lumens per Lamp: N/A
Luminaire Lumens: 17027.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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°	8919	8919	8919
5°	8919	8855	8870
10°	8794	8765	8775
15°	8643	8633	8638
20°	8469	8542	8537
25°	8270	8432	8458
30°	8069	8306	8373
35°	7870	8126	8162
40°	7601	7945	7938
45°	7324	7669	7745
50°	7048	7412	7511
55°	6751	7150	7193
60°	6466	6895	6847
65°	6127	6473	6346
70°	5646	5946	5675
75°	4993	5200	4541
80°	4016	4072	3174
85°	2629	2518	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.1	3.7
10°-20°	1752.0	10.3
20°-30°	2608.4	15.3
30°-40°	3070.3	18.0
40°-50°	3078.4	18.1
50°-60°	2699.5	15.9
60°-70°	1973.9	11.6
70°-80°	1017.3	6.0
80°-90°	204.1	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°	4983.6	29.3
0°-40°	8053.9	47.3
0°-60°	13831.7	81.2
0°-90°	17027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6629	6629	6629	6629	6629	
5°	6604	6560	6556	6600	6567	625
15°	6205	6216	6198	6238	6201	1746
25°	5571	5596	5679	5759	5698	2566
35°	4791	4813	4947	5002	4969	2984
45°	3849	3867	4030	4081	4070	2966
55°	2878	2943	3048	3092	3066	2583
65°	1924	1968	2033	2026	1993	1904
75°	960	968	1000	932	874	1018
85°	170	167	163	130	120	222
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6629.0	6629.0	6629.0	6629.0	6629.0
2.5°	6661.6	6629.0	6585.5	6621.7	6614.5
5°	6603.6	6560.1	6556.5	6600.0	6567.4
7.5°	6531.1	6523.9	6480.4	6527.5	6509.4
10°	6436.9	6429.7	6415.2	6447.8	6422.4
12.5°	6324.5	6317.3	6324.5	6342.7	6324.5
15°	6204.9	6215.8	6197.7	6237.6	6201.3
17.5°	6045.5	6056.3	6092.6	6107.1	6103.5
20°	5915.0	5922.2	5965.7	6023.7	5962.1
22.5°	5744.6	5762.8	5784.5	5889.6	5875.1
25°	5570.7	5596.0	5679.4	5759.1	5697.5
27.5°	5389.5	5414.8	5516.3	5574.3	5567.0
30°	5193.7	5219.1	5346.0	5425.7	5389.5
32.5°	4990.8	5034.3	5172.0	5240.9	5172.0
35°	4791.4	4813.2	4947.3	5001.6	4969.0
37.5°	4526.9	4610.2	4744.3	4780.6	4722.6
40°	4327.5	4331.1	4523.2	4523.2	4519.6
42.5°	4070.2	4128.2	4255.0	4323.9	4287.6
45°	3849.1	3867.2	4030.3	4081.1	4070.2
47.5°	3606.3	3678.7	3798.4	3856.3	3827.3
50°	3367.0	3417.8	3541.0	3617.1	3588.1
52.5°	3146.0	3185.8	3312.7	3356.2	3327.2
55°	2877.8	2943.0	3048.1	3091.6	3066.2
57.5°	2645.8	2692.9	2823.4	2837.9	2823.4
60°	2403.0	2457.3	2562.4	2573.3	2544.3
62.5°	2171.0	2207.2	2301.5	2305.1	2272.5
65°	1924.5	1968.0	2033.3	2026.0	1993.4
67.5°	1681.7	1710.7	1772.3	1747.0	1710.7
70°	1435.3	1460.6	1511.4	1475.1	1442.5
72.5°	1196.0	1214.2	1257.7	1203.3	1163.4
75°	960.5	967.7	1000.3	931.5	873.5
77.5°	728.5	735.7	753.9	685.0	619.8
80°	518.3	518.3	525.5	453.0	409.6
82.5°	326.2	326.2	322.6	268.2	242.8
85°	170.3	166.7	163.1	130.5	119.6
87.5°	61.6	61.6	50.7	47.1	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)