

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: P487252

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-35-120-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: P487252
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-LD4-4HI-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

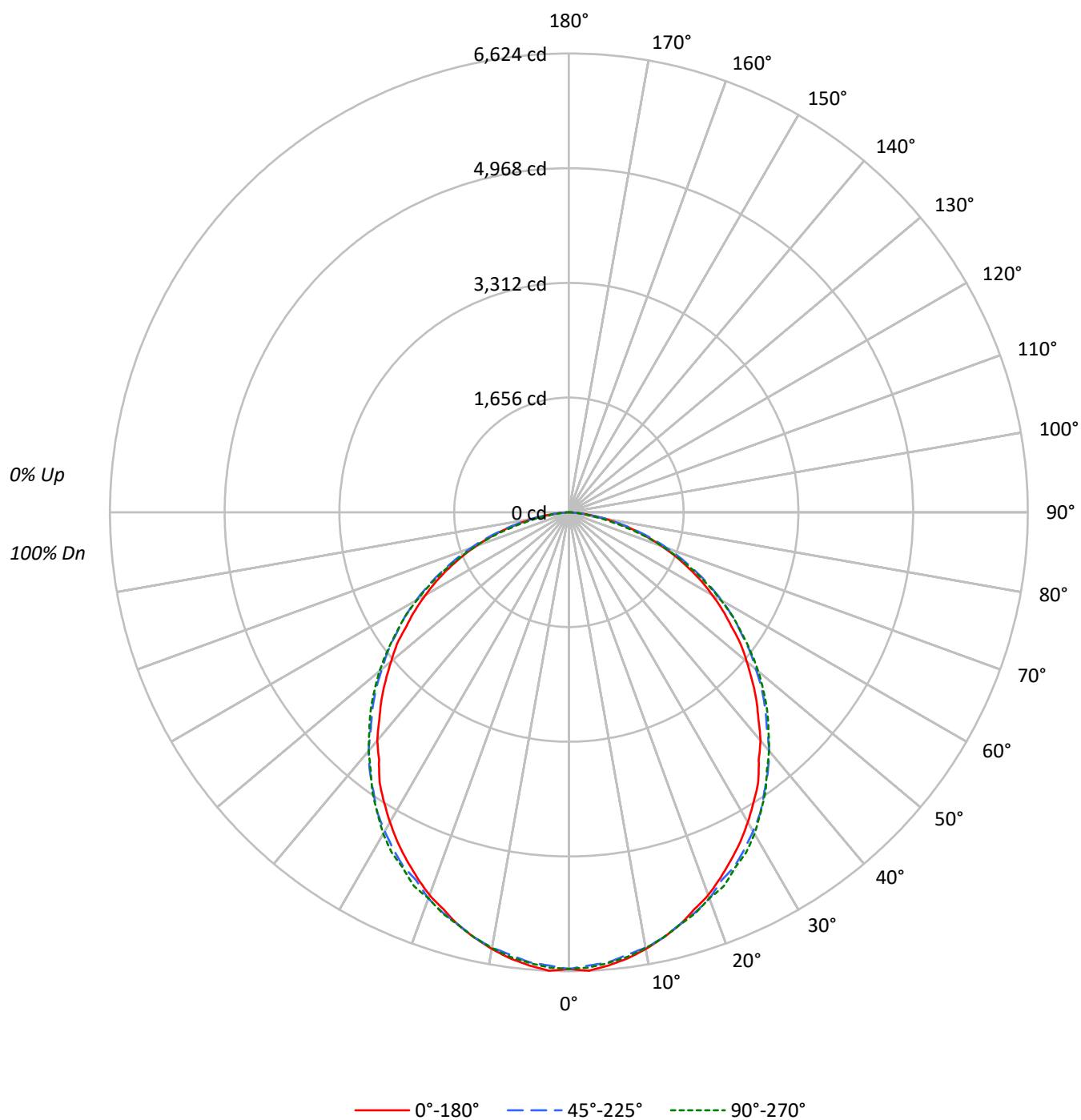
Lumens per Lamp: N/A
Luminaire Lumens: 16931.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	8869	8869	8869
5°	8869	8806	8820
10°	8745	8715	8725
15°	8595	8584	8590
20°	8422	8494	8489
25°	8224	8384	8411
30°	8024	8259	8326
35°	7826	8080	8116
40°	7558	7900	7893
45°	7283	7626	7701
50°	7008	7370	7468
55°	6713	7110	7152
60°	6430	6857	6808
65°	6093	6437	6311
70°	5615	5912	5643
75°	4965	5171	4515
80°	3994	4049	3155
85°	2615	2504	1836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	3.7
10°-20°	1742.2	10.3
20°-30°	2593.7	15.3
30°-40°	3053.0	18.0
40°-50°	3061.0	18.1
50°-60°	2684.3	15.9
60°-70°	1962.8	11.6
70°-80°	1011.6	6.0
80°-90°	203.0	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°	4955.5	29.3
0°-40°	8008.5	47.3
0°-60°	13753.8	81.2
0°-90°	16931.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16931.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6592	6592	6592	6592	6592	
5°	6566	6523	6520	6563	6530	622
15°	6170	6181	6163	6202	6166	1736
25°	5539	5564	5647	5727	5665	2552
35°	4764	4786	4919	4974	4941	2967
45°	3827	3845	4008	4058	4047	2950
55°	2862	2926	3031	3074	3049	2569
65°	1914	1957	2022	2015	1982	1893
75°	955	962	995	926	869	1012
85°	169	166	162	130	119	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6591.7	6591.7	6591.7	6591.7	6591.7
2.5°	6624.1	6591.7	6548.4	6584.4	6577.2
5°	6566.4	6523.2	6519.6	6562.8	6530.4
7.5°	6494.3	6487.1	6443.9	6490.7	6472.7
10°	6400.6	6393.4	6379.0	6411.5	6386.2
12.5°	6288.9	6281.7	6288.9	6306.9	6288.9
15°	6170.0	6180.8	6162.8	6202.4	6166.4
17.5°	6011.4	6022.2	6058.3	6072.7	6069.1
20°	5881.7	5888.9	5932.1	5989.8	5928.5
22.5°	5712.3	5730.3	5751.9	5856.4	5842.0
25°	5539.3	5564.5	5647.4	5726.7	5665.4
27.5°	5359.1	5384.3	5485.2	5542.9	5535.7
30°	5164.5	5189.7	5315.9	5395.1	5359.1
32.5°	4962.7	5005.9	5142.9	5211.3	5142.9
35°	4764.4	4786.1	4919.4	4973.5	4941.0
37.5°	4501.4	4584.2	4717.6	4753.6	4696.0
40°	4303.1	4306.7	4497.8	4497.8	4494.1
42.5°	4047.3	4104.9	4231.1	4299.5	4263.5
45°	3827.4	3845.4	4007.6	4058.1	4047.3
47.5°	3585.9	3658.0	3777.0	3834.6	3805.8
50°	3348.1	3398.5	3521.1	3596.8	3567.9
52.5°	3128.2	3167.9	3294.0	3337.3	3308.4
55°	2861.6	2926.4	3030.9	3074.2	3049.0
57.5°	2630.9	2677.7	2807.5	2821.9	2807.5
60°	2389.4	2443.5	2548.0	2558.8	2530.0
62.5°	2158.8	2194.8	2288.5	2292.1	2259.7
65°	1913.7	1957.0	2021.8	2014.6	1982.2
67.5°	1672.2	1701.1	1762.3	1737.1	1701.1
70°	1427.2	1452.4	1502.9	1466.8	1434.4
72.5°	1189.3	1207.3	1250.6	1196.5	1156.9
75°	955.1	962.3	994.7	926.2	868.6
77.5°	724.4	731.6	749.6	681.1	616.3
80°	515.4	515.4	522.6	450.5	407.2
82.5°	324.4	324.4	320.8	266.7	241.5
85°	169.4	165.8	162.2	129.7	118.9
87.5°	61.3	61.3	50.5	46.9	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)