

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: P487251

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-30-120-EDD**

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: P487251
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

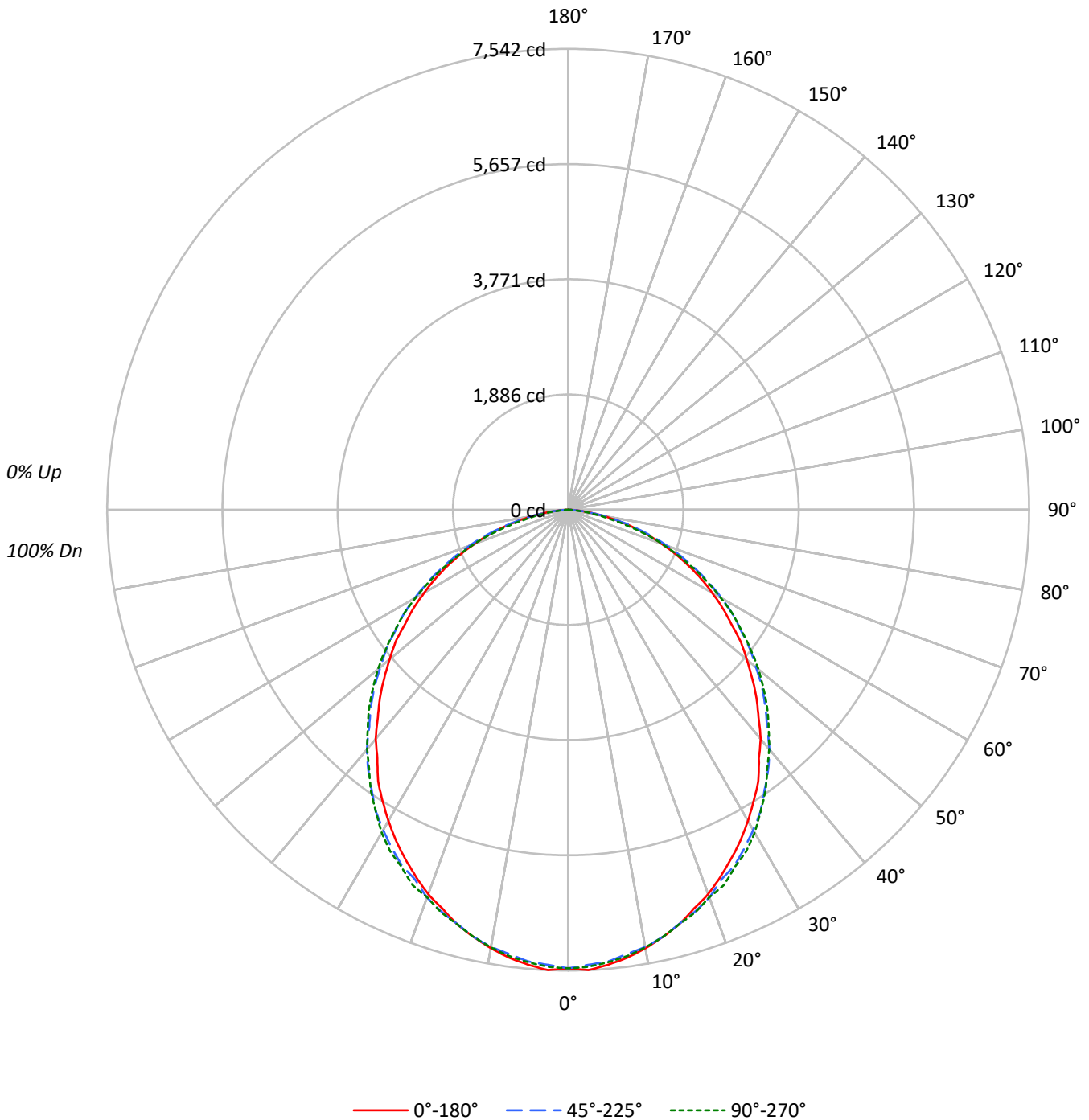
Lumens per Lamp: N/A
Luminaire Lumens: 19278.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				10	0
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°	10099	10099	10099
5°	10099	10026	10043
10°	9957	9924	9935
15°	9786	9775	9780
20°	9589	9672	9666
25°	9364	9546	9577
30°	9136	9404	9480
35°	8911	9201	9241
40°	8606	8995	8988
45°	8293	8683	8769
50°	7980	8392	8504
55°	7643	8096	8144
60°	7321	7807	7752
65°	6937	7330	7186
70°	6393	6732	6425
75°	5653	5888	5141
80°	4547	4610	3593
85°	2978	2851	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.5	3.7
10°-20°	1983.7	10.3
20°-30°	2953.4	15.3
30°-40°	3476.3	18.0
40°-50°	3485.4	18.1
50°-60°	3056.4	15.9
60°-70°	2234.9	11.6
70°-80°	1151.8	6.0
80°-90°	231.1	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°	5642.6	29.3
0°-40°	9118.9	47.3
0°-60°	15660.8	81.2
0°-90°	19278.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19278.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7506	7506	7506	7506	7506	
5°	7477	7428	7424	7473	7436	708
15°	7026	7038	7017	7062	7021	1977
25°	6307	6336	6430	6521	6451	2905
35°	5425	5450	5602	5663	5626	3379
45°	4358	4379	4563	4621	4608	3359
55°	3258	3332	3451	3500	3472	2925
65°	2179	2228	2302	2294	2257	2155
75°	1088	1096	1133	1055	989	1152
85°	193	189	185	148	135	252
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7505.6	7505.6	7505.6	7505.6	7505.6
2.5°	7542.5	7505.6	7456.3	7497.4	7489.2
5°	7476.9	7427.6	7423.5	7472.8	7435.8
7.5°	7394.8	7386.6	7337.3	7390.7	7370.2
10°	7288.1	7279.9	7263.5	7300.4	7271.7
12.5°	7160.9	7152.7	7160.9	7181.4	7160.9
15°	7025.5	7037.8	7017.3	7062.4	7021.4
17.5°	6844.9	6857.2	6898.2	6914.7	6910.6
20°	6697.2	6705.4	6754.6	6820.3	6750.5
22.5°	6504.3	6524.8	6549.4	6668.4	6652.0
25°	6307.3	6336.0	6430.4	6520.7	6451.0
27.5°	6102.1	6130.9	6245.8	6311.4	6303.2
30°	5880.5	5909.3	6052.9	6143.2	6102.1
32.5°	5650.7	5700.0	5855.9	5933.9	5855.9
35°	5425.0	5449.7	5601.5	5663.0	5626.1
37.5°	5125.5	5219.9	5371.7	5412.7	5347.1
40°	4899.8	4903.9	5121.4	5121.4	5117.3
42.5°	4608.4	4674.1	4817.7	4895.7	4854.6
45°	4358.1	4378.6	4563.3	4620.7	4608.4
47.5°	4083.1	4165.2	4300.6	4366.3	4333.5
50°	3812.3	3869.7	4009.3	4095.5	4062.6
52.5°	3562.0	3607.1	3750.7	3800.0	3767.2
55°	3258.3	3332.2	3451.2	3500.4	3471.7
57.5°	2995.7	3049.0	3196.7	3213.2	3196.7
60°	2720.7	2782.3	2901.3	2913.6	2880.8
62.5°	2458.1	2499.1	2605.8	2609.9	2573.0
65°	2179.0	2228.3	2302.2	2293.9	2257.0
67.5°	1904.1	1936.9	2006.7	1978.0	1936.9
70°	1625.0	1653.8	1711.2	1670.2	1633.3
72.5°	1354.2	1374.7	1424.0	1362.4	1317.3
75°	1087.5	1095.7	1132.6	1054.6	989.0
77.5°	824.8	833.0	853.6	775.6	701.7
80°	586.8	586.8	595.0	513.0	463.7
82.5°	369.3	369.3	365.2	303.7	274.9
85°	192.9	188.8	184.7	147.7	135.4
87.5°	69.8	69.8	57.5	53.3	57.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)