

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: P487277

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-35-120-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: P487277
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-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

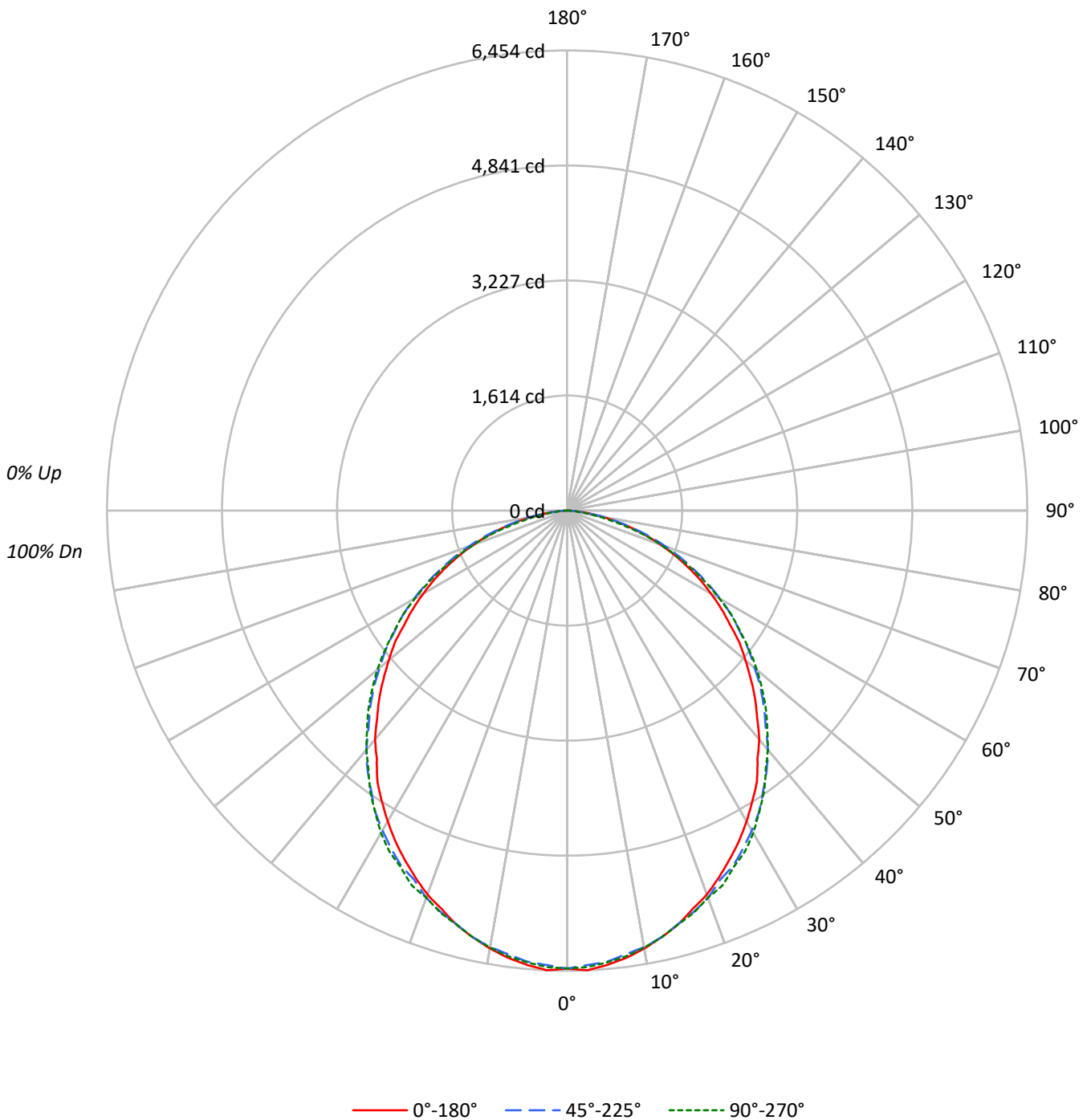
Lumens per Lamp: N/A
Luminaire Lumens: 16496.7 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P487277

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4STD-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P487277

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4STD-35-120-EDD

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°	8641	8641	8641
5°	8641	8580	8594
10°	8520	8492	8501
15°	8374	8364	8369
20°	8206	8276	8271
25°	8013	8169	8195
30°	7818	8047	8112
35°	7625	7873	7908
40°	7364	7697	7691
45°	7096	7430	7504
50°	6828	7181	7277
55°	6540	6928	6969
60°	6265	6681	6634
65°	5936	6272	6149
70°	5471	5760	5498
75°	4837	5038	4400
80°	3890	3945	3075
85°	2547	2439	1789



TEST NUMBER: P487277

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4STD-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.7	3.7
10°-20°	1697.5	10.3
20°-30°	2527.2	15.3
30°-40°	2974.7	18.0
40°-50°	2982.5	18.1
50°-60°	2615.4	15.9
60°-70°	1912.4	11.6
70°-80°	985.6	6.0
80°-90°	197.7	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°	4828.4	29.3
0°-40°	7803.0	47.3
0°-60°	13400.9	81.2
0°-90°	16496.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16496.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6422	6422	6422	6422	6422	
5°	6398	6356	6352	6394	6363	606
15°	6012	6022	6005	6043	6008	1692
25°	5397	5422	5502	5580	5520	2486
35°	4642	4663	4793	4846	4814	2891
45°	3729	3747	3905	3954	3943	2874
55°	2788	2851	2953	2995	2971	2503
65°	1865	1907	1970	1963	1931	1844
75°	930	938	969	902	846	986
85°	165	162	158	126	116	215
90°	0	0	0	0	0	



TEST NUMBER: P487277

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6422.5	6422.5	6422.5	6422.5	6422.5
2.5°	6454.1	6422.5	6380.4	6415.5	6408.5
5°	6398.0	6355.8	6352.3	6394.4	6362.8
7.5°	6327.7	6320.7	6278.6	6324.2	6306.7
10°	6236.4	6229.4	6215.4	6247.0	6222.4
12.5°	6127.6	6120.5	6127.6	6145.1	6127.6
15°	6011.7	6022.2	6004.7	6043.3	6008.2
17.5°	5857.2	5867.7	5902.8	5916.9	5913.4
20°	5730.8	5737.8	5779.9	5836.1	5776.4
22.5°	5565.7	5583.3	5604.4	5706.2	5692.1
25°	5397.2	5421.8	5502.5	5579.8	5520.1
27.5°	5221.6	5246.2	5344.5	5400.7	5393.7
30°	5032.0	5056.6	5179.5	5256.7	5221.6
32.5°	4835.3	4877.5	5010.9	5077.6	5010.9
35°	4642.2	4663.3	4793.2	4845.9	4814.3
37.5°	4385.9	4466.6	4596.6	4631.7	4575.5
40°	4192.7	4196.2	4382.4	4382.4	4378.8
42.5°	3943.4	3999.6	4122.5	4189.2	4154.1
45°	3729.2	3746.8	3904.8	3953.9	3943.4
47.5°	3493.9	3564.2	3680.1	3736.2	3708.1
50°	3262.2	3311.3	3430.7	3504.5	3476.4
52.5°	3048.0	3086.6	3209.5	3251.6	3223.6
55°	2788.1	2851.3	2953.2	2995.3	2970.7
57.5°	2563.4	2609.0	2735.5	2749.5	2735.5
60°	2328.1	2380.8	2482.6	2493.2	2465.1
62.5°	2103.4	2138.5	2229.8	2233.3	2201.7
65°	1864.6	1906.7	1970.0	1962.9	1931.3
67.5°	1629.3	1657.4	1717.1	1692.5	1657.4
70°	1390.6	1415.1	1464.3	1429.2	1397.6
72.5°	1158.8	1176.4	1218.5	1165.8	1127.2
75°	930.5	937.6	969.2	902.5	846.3
77.5°	705.8	712.8	730.4	663.7	600.5
80°	502.1	502.1	509.2	438.9	396.8
82.5°	316.0	316.0	312.5	259.9	235.3
85°	165.0	161.5	158.0	126.4	115.9
87.5°	59.7	59.7	49.2	45.6	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)