

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: P487259

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-20-120-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: P487259
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-LD4-4LO-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

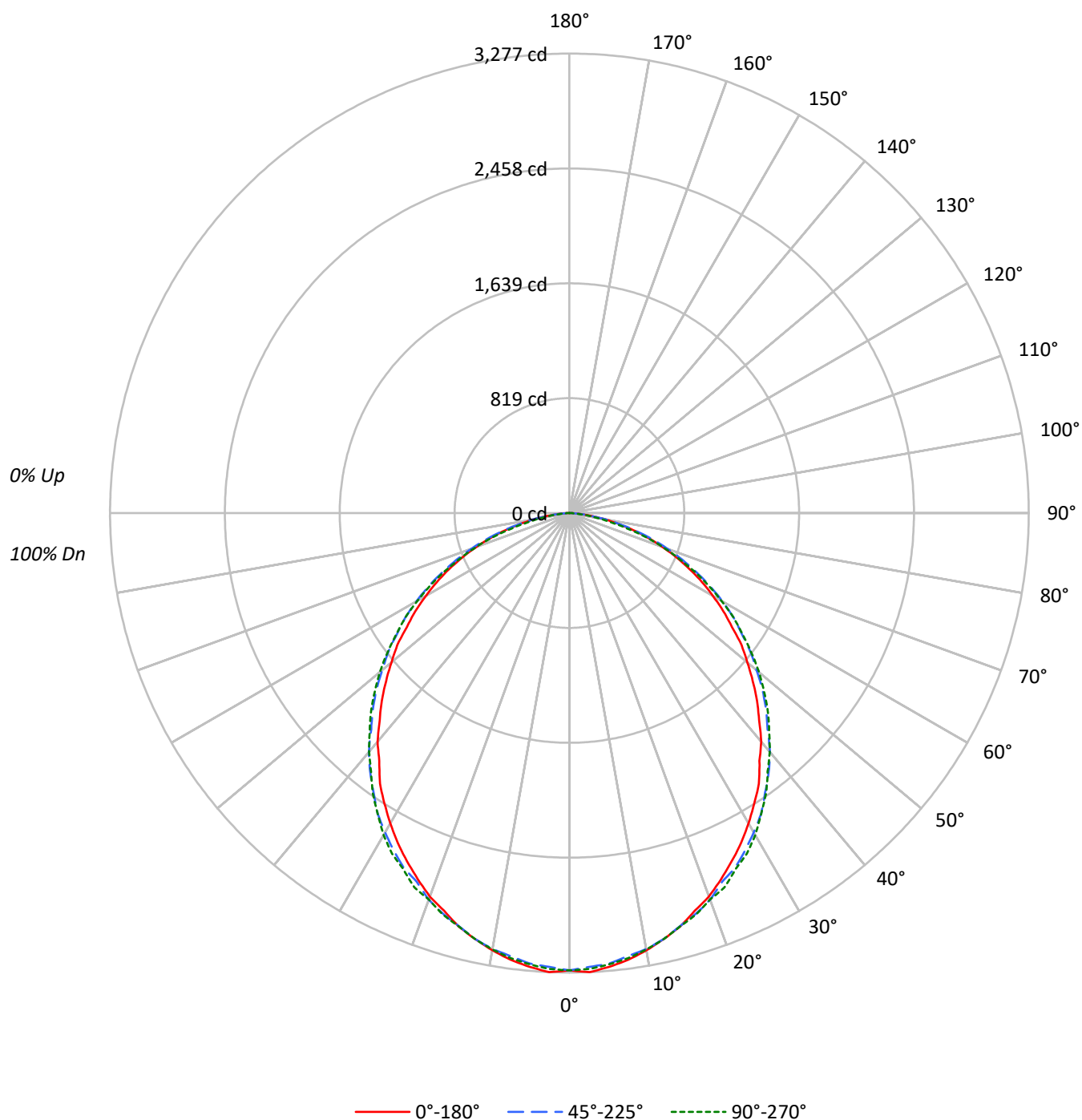
Lumens per Lamp: N/A
Luminaire Lumens: 8376.7 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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: P487259

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P487259

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD

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°	4388	4388	4388
5°	4388	4357	4364
10°	4326	4312	4317
15°	4252	4247	4250
20°	4167	4202	4200
25°	4069	4148	4161
30°	3970	4086	4119
35°	3872	3998	4015
40°	3739	3909	3905
45°	3603	3773	3810
50°	3467	3647	3695
55°	3321	3518	3539
60°	3181	3392	3368
65°	3014	3185	3122
70°	2778	2925	2792
75°	2456	2558	2234
80°	1976	2003	1561
85°	1294	1238	908



TEST NUMBER: P487259

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	3.7
10°-20°	861.9	10.3
20°-30°	1283.3	15.3
30°-40°	1510.5	18.0
40°-50°	1514.5	18.1
50°-60°	1328.0	15.9
60°-70°	971.1	11.6
70°-80°	500.5	6.0
80°-90°	100.4	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°	2451.7	29.3
0°-40°	3962.2	47.3
0°-60°	6804.7	81.2
0°-90°	8376.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8376.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3261	3261	3261	3261	3261	
5°	3249	3227	3226	3247	3231	308
15°	3053	3058	3049	3069	3051	859
25°	2741	2753	2794	2833	2803	1262
35°	2357	2368	2434	2461	2445	1468
45°	1894	1902	1983	2008	2002	1459
55°	1416	1448	1500	1521	1508	1271
65°	947	968	1000	997	981	937
75°	472	476	492	458	430	501
85°	84	82	80	64	59	109
90°	0	0	0	0	0	



TEST NUMBER: P487259

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4LO-20-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3261.2	3261.2	3261.2	3261.2	3261.2
2.5°	3277.3	3261.2	3239.8	3257.7	3254.1
5°	3248.8	3227.4	3225.6	3247.0	3230.9
7.5°	3213.1	3209.5	3188.1	3211.3	3202.4
10°	3166.7	3163.2	3156.0	3172.1	3159.6
12.5°	3111.5	3107.9	3111.5	3120.4	3111.5
15°	3052.6	3058.0	3049.1	3068.7	3050.8
17.5°	2974.2	2979.5	2997.3	3004.5	3002.7
20°	2910.0	2913.5	2934.9	2963.5	2933.2
22.5°	2826.2	2835.1	2845.8	2897.5	2890.4
25°	2740.6	2753.1	2794.1	2833.3	2803.0
27.5°	2651.4	2663.9	2713.8	2742.4	2738.8
30°	2555.1	2567.6	2630.0	2669.3	2651.4
32.5°	2455.3	2476.7	2544.4	2578.3	2544.4
35°	2357.2	2367.9	2433.9	2460.6	2444.6
37.5°	2227.1	2268.1	2334.0	2351.9	2323.3
40°	2129.0	2130.8	2225.3	2225.3	2223.5
42.5°	2002.4	2030.9	2093.3	2127.2	2109.4
45°	1893.6	1902.5	1982.8	2007.7	2002.4
47.5°	1774.2	1809.8	1868.7	1897.2	1882.9
50°	1656.5	1681.4	1742.1	1779.5	1765.2
52.5°	1547.7	1567.3	1629.7	1651.1	1636.9
55°	1415.8	1447.9	1499.6	1521.0	1508.5
57.5°	1301.6	1324.8	1389.0	1396.1	1389.0
60°	1182.2	1208.9	1260.6	1266.0	1251.7
62.5°	1068.1	1085.9	1132.3	1134.0	1118.0
65°	946.8	968.2	1000.3	996.7	980.7
67.5°	827.3	841.6	871.9	859.4	841.6
70°	706.1	718.6	743.5	725.7	709.7
72.5°	588.4	597.3	618.7	592.0	572.4
75°	472.5	476.1	492.1	458.2	429.7
77.5°	358.4	362.0	370.9	337.0	304.9
80°	255.0	255.0	258.5	222.9	201.5
82.5°	160.5	160.5	158.7	131.9	119.5
85°	83.8	82.0	80.2	64.2	58.8
87.5°	30.3	30.3	25.0	23.2	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)