

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: P486032

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-50-120-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: P486032
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-24-2-INS-A125-LD4-6HI-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

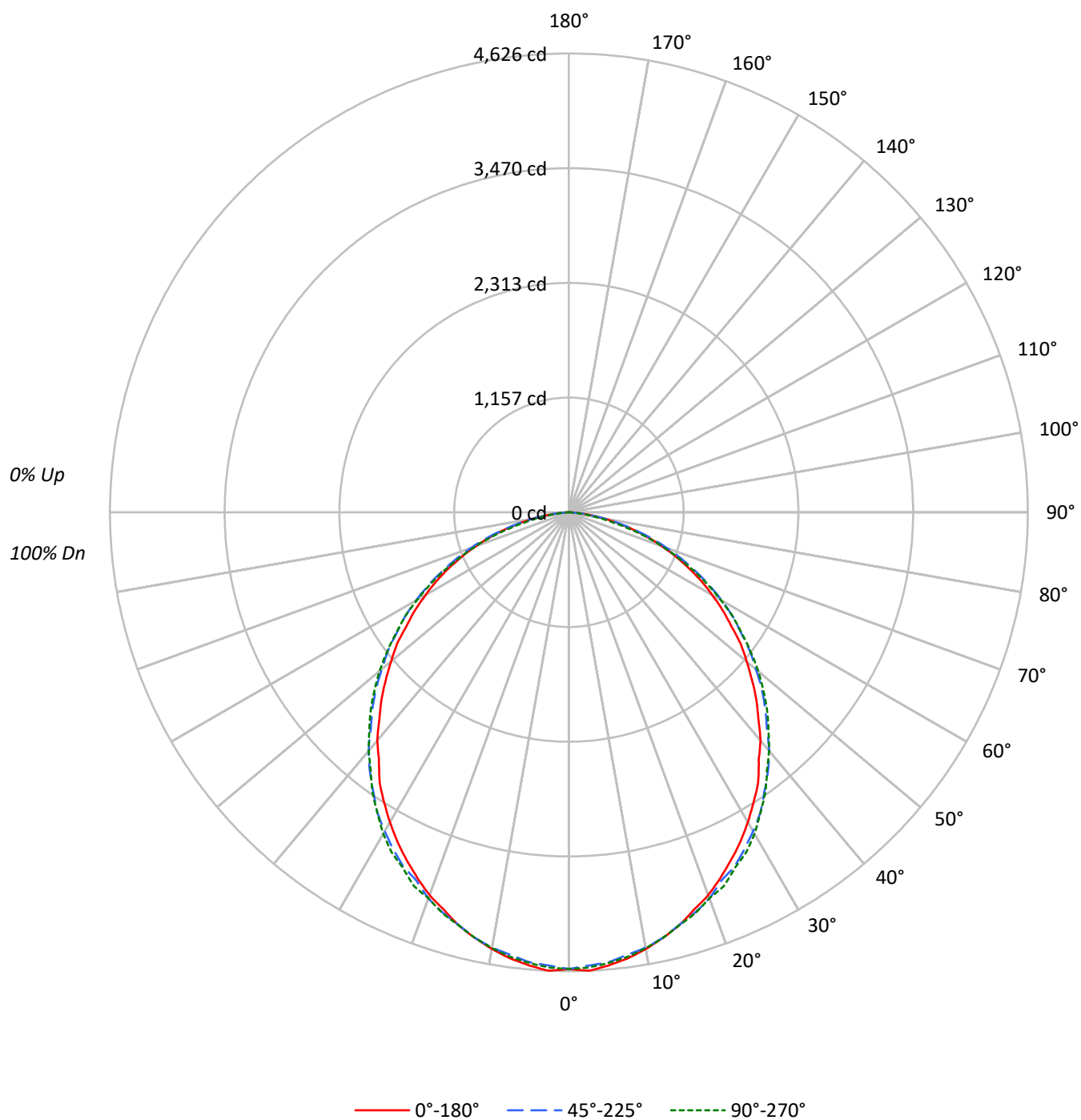
Lumens per Lamp: N/A
Luminaire Lumens: 11824.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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: P486032

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P486032

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-50-120-EDD-90

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°	12388	12388	12388
5°	12388	12300	12320
10°	12215	12174	12187
15°	12005	11991	11998
20°	11763	11864	11857
25°	11487	11711	11748
30°	11208	11536	11630
35°	10931	11287	11336
40°	10557	11034	11026
45°	10173	10652	10757
50°	9789	10295	10432
55°	9376	9931	9990
60°	8981	9577	9509
65°	8510	8991	8815
70°	7842	8258	7882
75°	6935	7223	6307
80°	5577	5656	4407
85°	3653	3498	2566



TEST NUMBER: P486032

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.7	3.7
10°-20°	1216.7	10.3
20°-30°	1811.5	15.3
30°-40°	2132.2	18.0
40°-50°	2137.8	18.1
50°-60°	1874.7	15.9
60°-70°	1370.8	11.6
70°-80°	706.5	6.0
80°-90°	141.7	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°	3460.9	29.3
0°-40°	5593.2	47.3
0°-60°	9605.7	81.2
0°-90°	11824.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11824.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4604	4604	4604	4604	4604	
5°	4586	4556	4553	4584	4561	434
15°	4309	4317	4304	4332	4307	1213
25°	3869	3886	3944	4000	3957	1782
35°	3328	3343	3436	3474	3451	2072
45°	2673	2686	2799	2834	2827	2060
55°	1998	2044	2117	2147	2129	1794
65°	1336	1367	1412	1407	1384	1322
75°	667	672	695	647	607	707
85°	118	116	113	91	83	154
90°	0	0	0	0	0	



TEST NUMBER: P486032

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4603.6	4603.6	4603.6	4603.6	4603.6
2.5°	4626.3	4603.6	4573.4	4598.6	4593.6
5°	4586.0	4555.8	4553.3	4583.5	4560.8
7.5°	4535.7	4530.6	4500.4	4533.1	4520.6
10°	4470.2	4465.2	4455.1	4477.8	4460.2
12.5°	4392.2	4387.2	4392.2	4404.8	4392.2
15°	4309.1	4316.7	4304.1	4331.8	4306.6
17.5°	4198.4	4205.9	4231.1	4241.2	4238.7
20°	4107.8	4112.8	4143.0	4183.3	4140.5
22.5°	3989.5	4002.1	4017.2	4090.1	4080.1
25°	3868.7	3886.3	3944.2	3999.5	3956.7
27.5°	3742.8	3760.4	3830.9	3871.2	3866.1
30°	3606.9	3624.5	3712.6	3768.0	3742.8
32.5°	3465.9	3496.1	3591.8	3639.6	3591.8
35°	3327.5	3342.6	3435.7	3473.5	3450.8
37.5°	3143.8	3201.6	3294.8	3319.9	3279.7
40°	3005.3	3007.8	3141.2	3141.2	3138.7
42.5°	2826.6	2866.9	2955.0	3002.8	2977.6
45°	2673.1	2685.7	2798.9	2834.2	2826.6
47.5°	2504.4	2554.8	2637.8	2678.1	2658.0
50°	2338.3	2373.5	2459.1	2512.0	2491.8
52.5°	2184.8	2212.5	2300.6	2330.8	2310.6
55°	1998.5	2043.8	2116.8	2147.0	2129.4
57.5°	1837.4	1870.1	1960.8	1970.8	1960.8
60°	1668.8	1706.5	1779.5	1787.1	1766.9
62.5°	1507.7	1532.9	1598.3	1600.8	1578.2
65°	1336.5	1366.7	1412.0	1407.0	1384.4
67.5°	1167.9	1188.0	1230.8	1213.2	1188.0
70°	996.7	1014.4	1049.6	1024.4	1001.8
72.5°	830.6	843.2	873.4	835.6	808.0
75°	667.0	672.0	694.7	646.9	606.6
77.5°	505.9	511.0	523.5	475.7	430.4
80°	359.9	359.9	365.0	314.6	284.4
82.5°	226.5	226.5	224.0	186.3	168.6
85°	118.3	115.8	113.3	90.6	83.1
87.5°	42.8	42.8	35.2	32.7	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)