

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: P487350

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-40-120-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: P487350
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-LD4-6STD-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

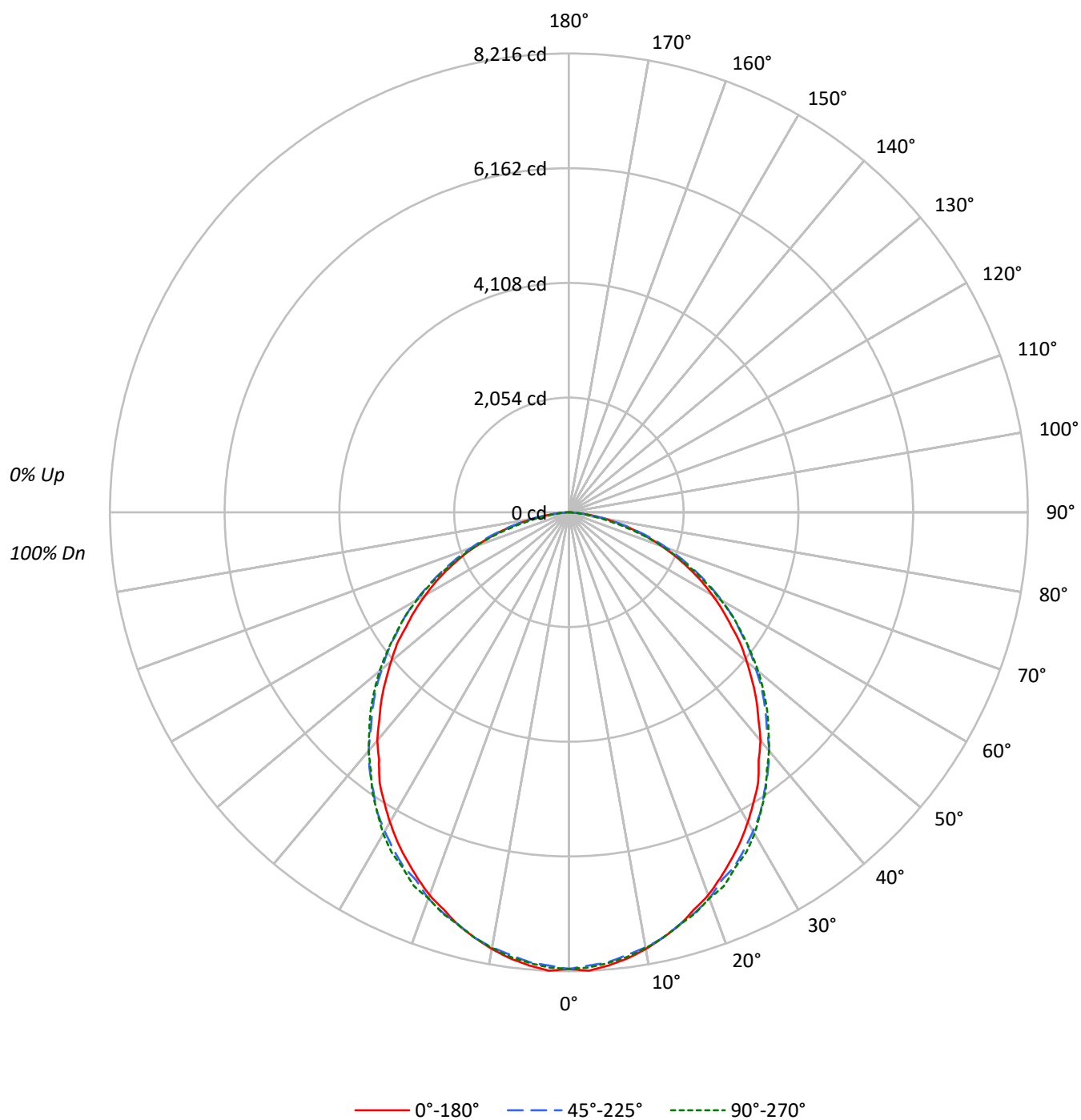
Lumens per Lamp: N/A
Luminaire Lumens: 20999.4 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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: P487350

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6STD-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P487350

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6STD-40-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	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	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°	11000	11000	11000
5°	11000	10921	10939
10°	10846	10809	10822
15°	10660	10647	10653
20°	10445	10535	10528
25°	10200	10399	10432
30°	9952	10243	10327
35°	9706	10022	10066
40°	9374	9798	9790
45°	9033	9458	9552
50°	8692	9141	9263
55°	8325	8818	8871
60°	7975	8504	8444
65°	7557	7983	7827
70°	6963	7333	6998
75°	6158	6413	5600
80°	4953	5022	3914
85°	3243	3105	2277



TEST NUMBER: P487350

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6STD-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.5	3.7
10°-20°	2160.8	10.3
20°-30°	3217.0	15.3
30°-40°	3786.6	18.0
40°-50°	3796.6	18.1
50°-60°	3329.2	15.9
60°-70°	2434.4	11.6
70°-80°	1254.6	6.0
80°-90°	251.7	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°	6146.2	29.3
0°-40°	9932.8	47.3
0°-60°	17058.6	81.2
0°-90°	20999.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20999.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8176	8176	8176	8176	8176	
5°	8144	8091	8086	8140	8100	771
15°	7653	7666	7644	7693	7648	2154
25°	6870	6902	7004	7103	7027	3165
35°	5909	5936	6102	6168	6128	3680
45°	4747	4769	4971	5033	5020	3658
55°	3549	3630	3759	3813	3782	3186
65°	2374	2427	2508	2499	2458	2348
75°	1184	1194	1234	1149	1077	1255
85°	210	206	201	161	148	274
90°	0	0	0	0	0	



TEST NUMBER: P487350

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6STD-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8175.5	8175.5	8175.5	8175.5	8175.5
2.5°	8215.8	8175.5	8121.9	8166.6	8157.7
5°	8144.2	8090.6	8086.1	8139.8	8099.5
7.5°	8054.8	8045.9	7992.3	8050.4	8028.0
10°	7938.6	7929.7	7911.8	7952.0	7920.8
12.5°	7800.1	7791.1	7800.1	7822.4	7800.1
15°	7652.6	7666.0	7643.6	7692.8	7648.1
17.5°	7455.9	7469.3	7514.0	7531.9	7527.4
20°	7295.0	7303.9	7357.5	7429.1	7353.1
22.5°	7084.9	7107.2	7134.0	7263.7	7245.8
25°	6870.3	6901.6	7004.4	7102.7	7026.8
27.5°	6646.8	6678.1	6803.3	6874.8	6865.8
30°	6405.4	6436.7	6593.2	6691.5	6646.8
32.5°	6155.1	6208.8	6378.6	6463.5	6378.6
35°	5909.3	5936.1	6101.5	6168.5	6128.3
37.5°	5583.0	5685.8	5851.2	5895.9	5824.3
40°	5337.1	5341.6	5578.5	5578.5	5574.0
42.5°	5019.8	5091.3	5247.7	5332.6	5287.9
45°	4747.1	4769.4	4970.6	5033.2	5019.8
47.5°	4447.6	4537.0	4684.5	4756.0	4720.3
50°	4152.6	4215.2	4367.1	4461.0	4425.2
52.5°	3879.9	3929.1	4085.5	4139.2	4103.4
55°	3549.1	3629.6	3759.2	3812.9	3781.6
57.5°	3263.1	3321.2	3482.1	3500.0	3482.1
60°	2963.6	3030.6	3160.3	3173.7	3137.9
62.5°	2677.5	2722.2	2838.4	2842.9	2802.7
65°	2373.5	2427.2	2507.6	2498.7	2458.5
67.5°	2074.1	2109.8	2185.8	2154.5	2109.8
70°	1770.1	1801.4	1864.0	1819.3	1779.0
72.5°	1475.1	1497.4	1551.1	1484.0	1434.9
75°	1184.5	1193.5	1233.7	1148.8	1077.3
77.5°	898.5	907.4	929.7	844.8	764.4
80°	639.2	639.2	648.1	558.7	505.1
82.5°	402.3	402.3	397.8	330.8	299.5
85°	210.1	205.6	201.1	160.9	147.5
87.5°	76.0	76.0	62.6	58.1	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)