

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: P485161

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-27-120-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: P485161
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-12-4-INS-A125-LD4-3HI-27-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

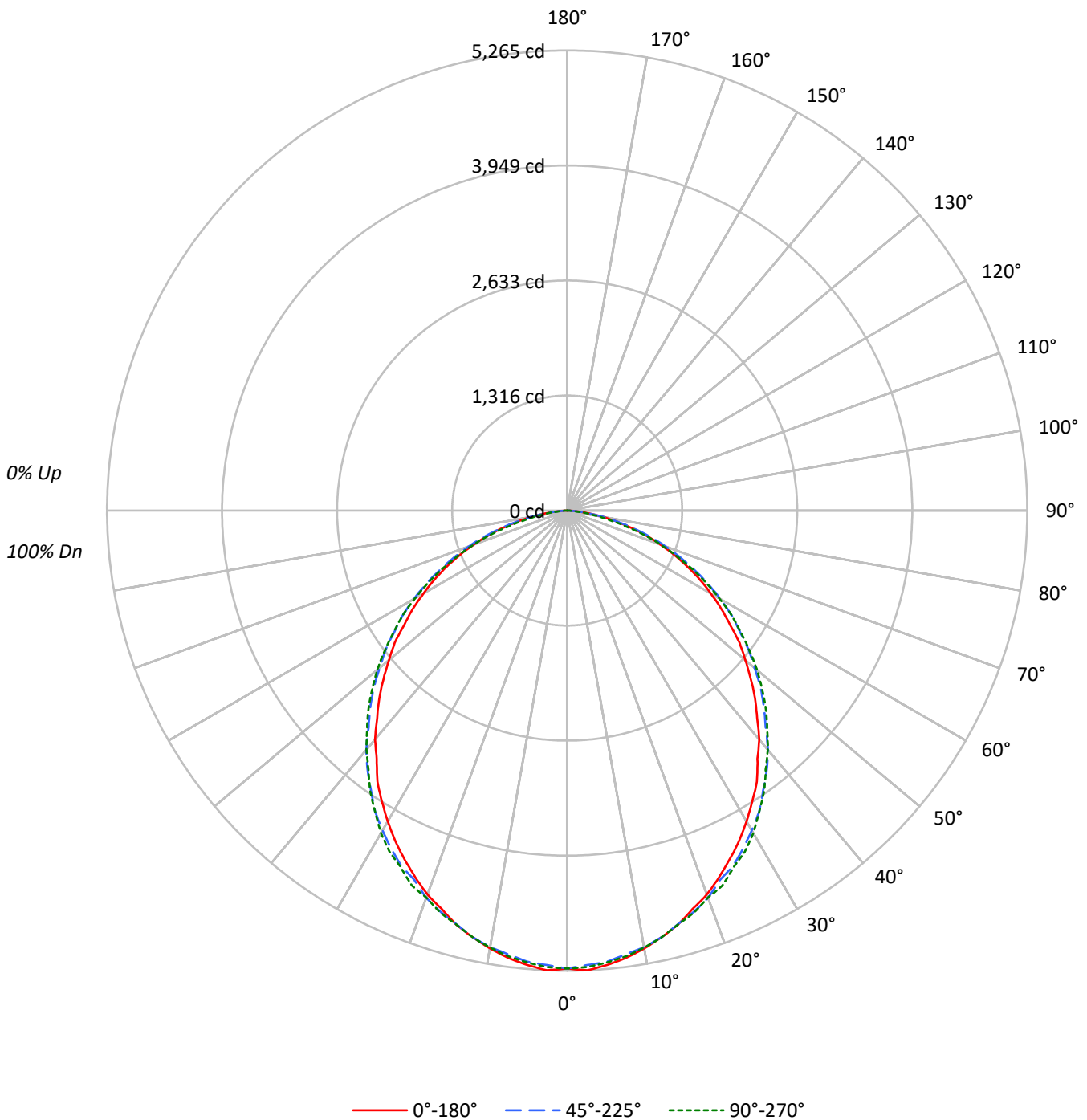
Lumens per Lamp: N/A
Luminaire Lumens: 13458.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P485161

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-3HI-27-120-EDD

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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14100	14100	14100
5°	14099	13999	14022
10°	13902	13855	13871
15°	13663	13647	13655
20°	13389	13503	13495
25°	13074	13329	13371
30°	12756	13130	13237
35°	12441	12846	12902
40°	12016	12559	12549
45°	11578	12123	12243
50°	11142	11717	11873
55°	10671	11303	11371
60°	10222	10901	10824
65°	9686	10233	10032
70°	8925	9399	8971
75°	7894	8221	7178
80°	6349	6437	5016
85°	4156	3980	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.5	3.7
10°-20°	1384.8	10.3
20°-30°	2061.8	15.3
30°-40°	2426.8	18.0
40°-50°	2433.2	18.1
50°-60°	2133.7	15.9
60°-70°	1560.2	11.6
70°-80°	804.1	6.0
80°-90°	161.3	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°	3939.1	29.3
0°-40°	6365.9	47.3
0°-60°	10932.8	81.2
0°-90°	13458.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13458.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5240	5240	5240	5240	5240	
5°	5220	5185	5182	5217	5191	494
15°	4904	4913	4899	4930	4902	1380
25°	4403	4423	4489	4552	4503	2028
35°	3787	3804	3910	3953	3928	2359
45°	3042	3057	3186	3226	3217	2345
55°	2275	2326	2409	2444	2424	2042
65°	1521	1556	1607	1601	1576	1505
75°	759	765	791	736	690	804
85°	135	132	129	103	94	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5239.7	5239.7	5239.7	5239.7	5239.7
2.5°	5265.4	5239.7	5205.3	5233.9	5228.2
5°	5219.6	5185.2	5182.4	5216.7	5191.0
7.5°	5162.3	5156.6	5122.2	5159.4	5145.1
10°	5087.8	5082.1	5070.6	5096.4	5076.4
12.5°	4999.0	4993.3	4999.0	5013.3	4999.0
15°	4904.5	4913.1	4898.7	4930.3	4901.6
17.5°	4778.4	4787.0	4815.7	4827.1	4824.3
20°	4675.3	4681.0	4715.4	4761.2	4712.5
22.5°	4540.7	4555.0	4572.2	4655.2	4643.8
25°	4403.1	4423.2	4489.1	4552.1	4503.4
27.5°	4259.9	4280.0	4360.2	4406.0	4400.3
30°	4105.2	4125.3	4225.5	4288.6	4259.9
32.5°	3944.8	3979.2	4088.0	4142.5	4088.0
35°	3787.2	3804.4	3910.4	3953.4	3927.6
37.5°	3578.1	3644.0	3750.0	3778.6	3732.8
40°	3420.5	3423.4	3575.2	3575.2	3572.4
42.5°	3217.1	3263.0	3363.2	3417.7	3389.0
45°	3042.4	3056.7	3185.6	3225.7	3217.1
47.5°	2850.4	2907.7	3002.3	3048.1	3025.2
50°	2661.4	2701.5	2798.9	2859.0	2836.1
52.5°	2486.6	2518.1	2618.4	2652.8	2629.9
55°	2274.6	2326.2	2409.3	2443.6	2423.6
57.5°	2091.3	2128.5	2231.7	2243.1	2231.7
60°	1899.3	1942.3	2025.4	2034.0	2011.1
62.5°	1716.0	1744.6	1819.1	1822.0	1796.2
65°	1521.2	1555.6	1607.1	1601.4	1575.6
67.5°	1329.3	1352.2	1400.9	1380.8	1352.2
70°	1134.4	1154.5	1194.6	1166.0	1140.2
72.5°	945.4	959.7	994.1	951.1	919.6
75°	759.2	764.9	790.7	736.2	690.4
77.5°	575.8	581.5	595.9	541.4	489.9
80°	409.7	409.7	415.4	358.1	323.7
82.5°	257.8	257.8	255.0	212.0	191.9
85°	134.6	131.8	128.9	103.1	94.5
87.5°	48.7	48.7	40.1	37.2	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)