

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: P487308

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-27-120-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: P487308
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-LD4-5STD-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

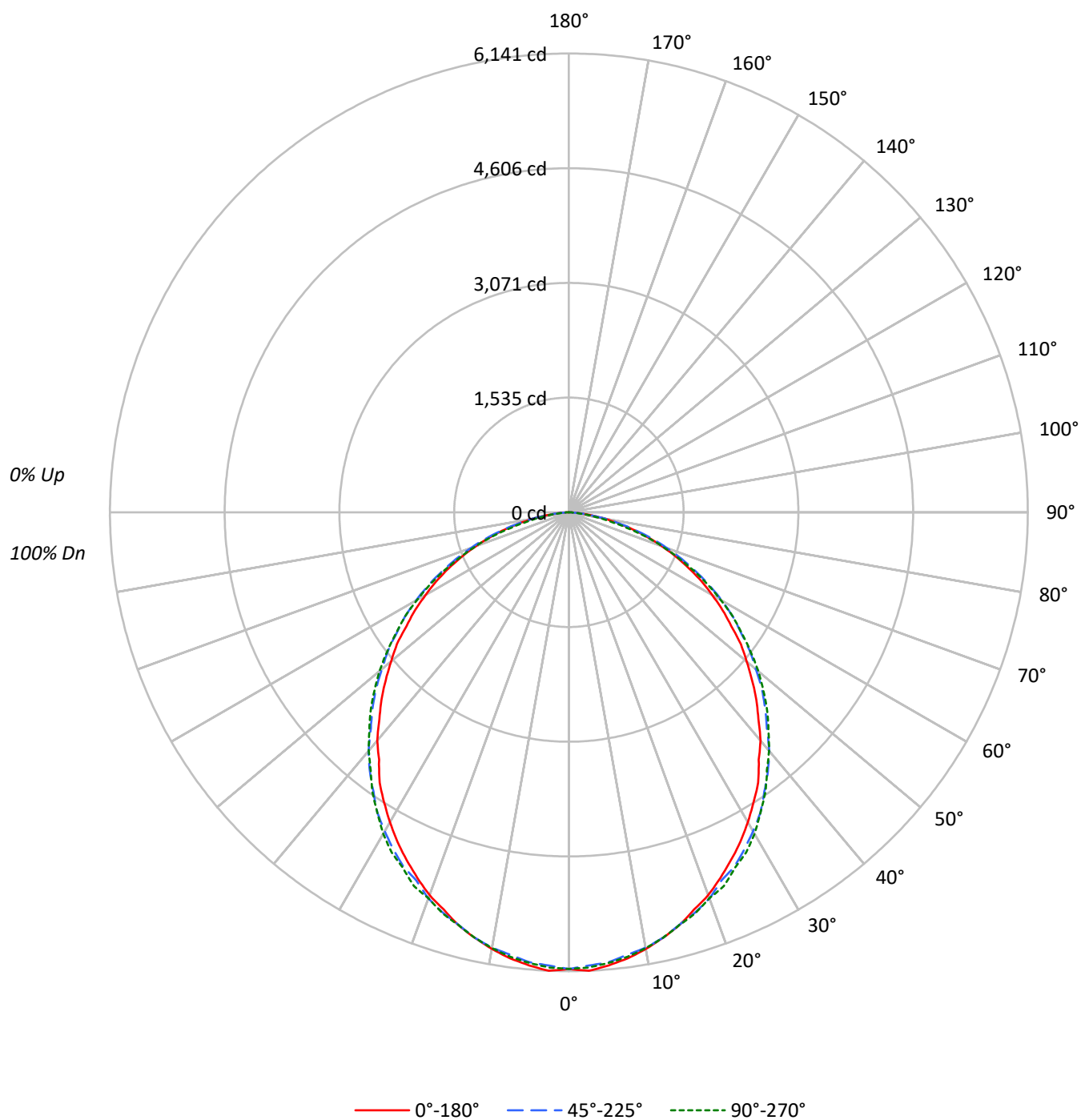
Lumens per Lamp: N/A
Luminaire Lumens: 15697.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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

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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			
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°	8223	8223	8223
5°	8222	8164	8177
10°	8107	8080	8089
15°	7968	7959	7963
20°	7808	7875	7870
25°	7624	7773	7798
30°	7439	7657	7719
35°	7255	7491	7524
40°	7007	7324	7318
45°	6752	7070	7140
50°	6497	6833	6924
55°	6223	6592	6631
60°	5961	6357	6312
65°	5649	5968	5851
70°	5205	5481	5231
75°	4603	4794	4186
80°	3702	3754	2926
85°	2424	2322	1703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	3.7
10°-20°	1615.2	10.3
20°-30°	2404.7	15.3
30°-40°	2830.5	18.0
40°-50°	2837.9	18.1
50°-60°	2488.6	15.9
60°-70°	1819.7	11.6
70°-80°	937.8	6.0
80°-90°	188.2	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°	4594.3	29.3
0°-40°	7424.8	47.3
0°-60°	12751.3	81.2
0°-90°	15697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6111	6111	6111	6111	6111	
5°	6088	6048	6044	6084	6054	576
15°	5720	5730	5714	5750	5717	1610
25°	5136	5159	5236	5309	5252	2366
35°	4417	4437	4561	4611	4581	2751
45°	3548	3565	3716	3762	3752	2735
55°	2653	2713	2810	2850	2827	2381
65°	1774	1814	1874	1868	1838	1755
75°	885	892	922	859	805	938
85°	157	154	150	120	110	205
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6111.2	6111.2	6111.2	6111.2	6111.2
2.5°	6141.3	6111.2	6071.1	6104.5	6097.8
5°	6087.8	6047.7	6044.4	6084.5	6054.4
7.5°	6021.0	6014.3	5974.2	6017.6	6000.9
10°	5934.1	5927.4	5914.1	5944.1	5920.7
12.5°	5830.5	5823.8	5830.5	5847.2	5830.5
15°	5720.3	5730.3	5713.6	5750.3	5716.9
17.5°	5573.2	5583.3	5616.7	5630.1	5626.7
20°	5453.0	5459.6	5499.7	5553.2	5496.4
22.5°	5295.9	5312.6	5332.7	5429.6	5416.2
25°	5135.5	5158.9	5235.8	5309.3	5252.5
27.5°	4968.5	4991.9	5085.4	5138.9	5132.2
30°	4788.0	4811.4	4928.4	5001.9	4968.5
32.5°	4600.9	4641.0	4768.0	4831.5	4768.0
35°	4417.2	4437.2	4560.8	4611.0	4580.9
37.5°	4173.3	4250.1	4373.7	4407.1	4353.7
40°	3989.5	3992.8	4169.9	4169.9	4166.6
42.5°	3752.3	3805.7	3922.7	3986.1	3952.7
45°	3548.4	3565.1	3715.5	3762.3	3752.3
47.5°	3324.6	3391.4	3501.7	3555.1	3528.4
50°	3104.0	3150.8	3264.4	3334.6	3307.9
52.5°	2900.2	2937.0	3053.9	3094.0	3067.3
55°	2653.0	2713.1	2810.0	2850.1	2826.7
57.5°	2439.1	2482.6	2602.9	2616.2	2602.9
60°	2215.3	2265.4	2362.3	2372.3	2345.6
62.5°	2001.4	2034.8	2121.7	2125.1	2095.0
65°	1774.2	1814.3	1874.5	1867.8	1837.7
67.5°	1550.4	1577.1	1633.9	1610.5	1577.1
70°	1323.1	1346.5	1393.3	1359.9	1329.8
72.5°	1102.6	1119.3	1159.4	1109.3	1072.5
75°	885.4	892.1	922.2	858.7	805.2
77.5°	671.6	678.3	695.0	631.5	571.4
80°	477.8	477.8	484.5	417.7	377.6
82.5°	300.7	300.7	297.4	247.3	223.9
85°	157.0	153.7	150.4	120.3	110.3
87.5°	56.8	56.8	46.8	43.4	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)