

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: P487318

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-20-120-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: P487318
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-LD4-6HI-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

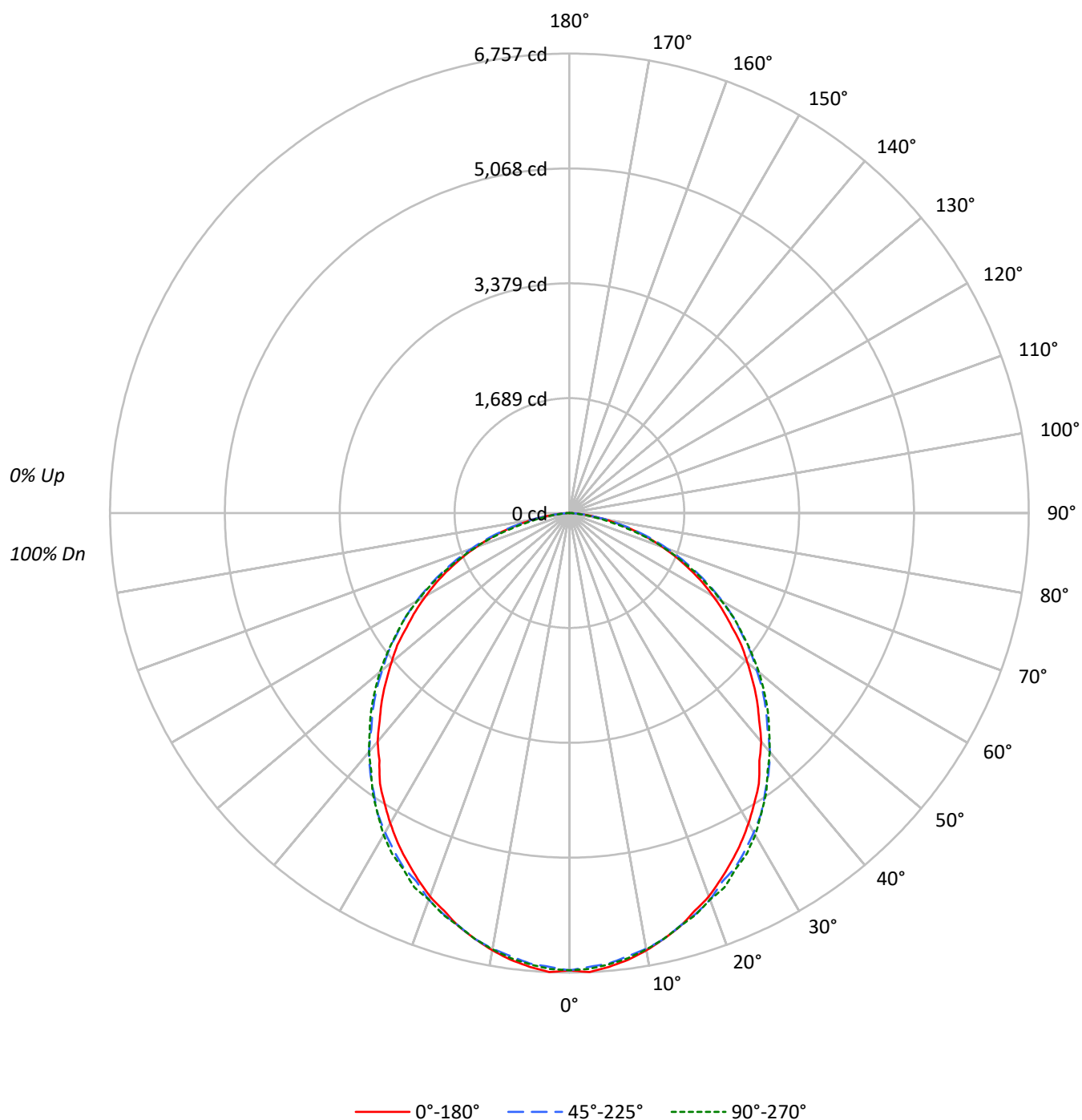
Lumens per Lamp: N/A
Luminaire Lumens: 17269.8 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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					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°	9046	9046	9046
5°	9046	8982	8997
10°	8920	8890	8900
15°	8766	8756	8761
20°	8590	8664	8658
25°	8388	8552	8579
30°	8184	8424	8493
35°	7982	8242	8278
40°	7709	8058	8052
45°	7429	7778	7855
50°	7149	7518	7618
55°	6847	7252	7295
60°	6558	6994	6944
65°	6215	6566	6437
70°	5727	6030	5756
75°	5064	5274	4605
80°	4073	4130	3219
85°	2668	2553	1873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.0	3.7
10°-20°	1777.0	10.3
20°-30°	2645.6	15.3
30°-40°	3114.1	18.0
40°-50°	3122.3	18.1
50°-60°	2738.0	15.9
60°-70°	2002.1	11.6
70°-80°	1031.8	6.0
80°-90°	207.0	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°	5054.6	29.3
0°-40°	8168.7	47.3
0°-60°	14028.9	81.2
0°-90°	17269.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17269.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6724	6724	6724	6724	6724	
5°	6698	6654	6650	6694	6661	634
15°	6293	6304	6286	6326	6290	1771
25°	5650	5676	5760	5841	5779	2603
35°	4860	4882	5018	5073	5040	3027
45°	3904	3922	4088	4139	4128	3009
55°	2919	2985	3092	3136	3110	2620
65°	1952	1996	2062	2055	2022	1931
75°	974	982	1015	945	886	1032
85°	173	169	165	132	121	225
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6723.5	6723.5	6723.5	6723.5	6723.5
2.5°	6756.6	6723.5	6679.4	6716.2	6708.8
5°	6697.8	6653.7	6650.0	6694.1	6661.0
7.5°	6624.3	6616.9	6572.8	6620.6	6602.2
10°	6528.7	6521.3	6506.6	6539.7	6514.0
12.5°	6414.7	6407.4	6414.7	6433.1	6414.7
15°	6293.4	6304.4	6286.1	6326.5	6289.7
17.5°	6131.7	6142.7	6179.5	6194.2	6190.5
20°	5999.3	6006.7	6050.8	6109.6	6047.1
22.5°	5826.6	5844.9	5867.0	5973.6	5958.9
25°	5650.1	5675.8	5760.4	5841.3	5778.8
27.5°	5466.3	5492.0	5595.0	5653.8	5646.4
30°	5267.8	5293.5	5422.2	5503.1	5466.3
32.5°	5061.9	5106.1	5245.7	5315.6	5245.7
35°	4859.8	4881.8	5017.8	5073.0	5039.9
37.5°	4591.4	4676.0	4812.0	4848.7	4789.9
40°	4389.2	4392.9	4587.7	4587.7	4584.1
42.5°	4128.2	4187.0	4315.7	4385.5	4348.8
45°	3904.0	3922.4	4087.8	4139.2	4128.2
47.5°	3657.7	3731.2	3852.5	3911.3	3881.9
50°	3415.1	3466.5	3591.5	3668.7	3639.3
52.5°	3190.8	3231.3	3359.9	3404.0	3374.6
55°	2918.8	2985.0	3091.6	3135.7	3109.9
57.5°	2683.5	2731.3	2863.7	2878.4	2863.7
60°	2437.2	2492.4	2599.0	2610.0	2580.6
62.5°	2202.0	2238.7	2334.3	2338.0	2304.9
65°	1952.0	1996.1	2062.3	2054.9	2021.8
67.5°	1705.7	1735.1	1797.6	1771.9	1735.1
70°	1455.7	1481.5	1532.9	1496.2	1463.1
72.5°	1213.1	1231.5	1275.6	1220.5	1180.0
75°	974.2	981.5	1014.6	944.7	885.9
77.5°	738.9	746.2	764.6	694.8	628.6
80°	525.7	525.7	533.0	459.5	415.4
82.5°	330.8	330.8	327.2	272.0	246.3
85°	172.8	169.1	165.4	132.3	121.3
87.5°	62.5	62.5	51.5	47.8	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)