

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: P487275

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-30-120-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: P487275
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-LD4-4STD-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

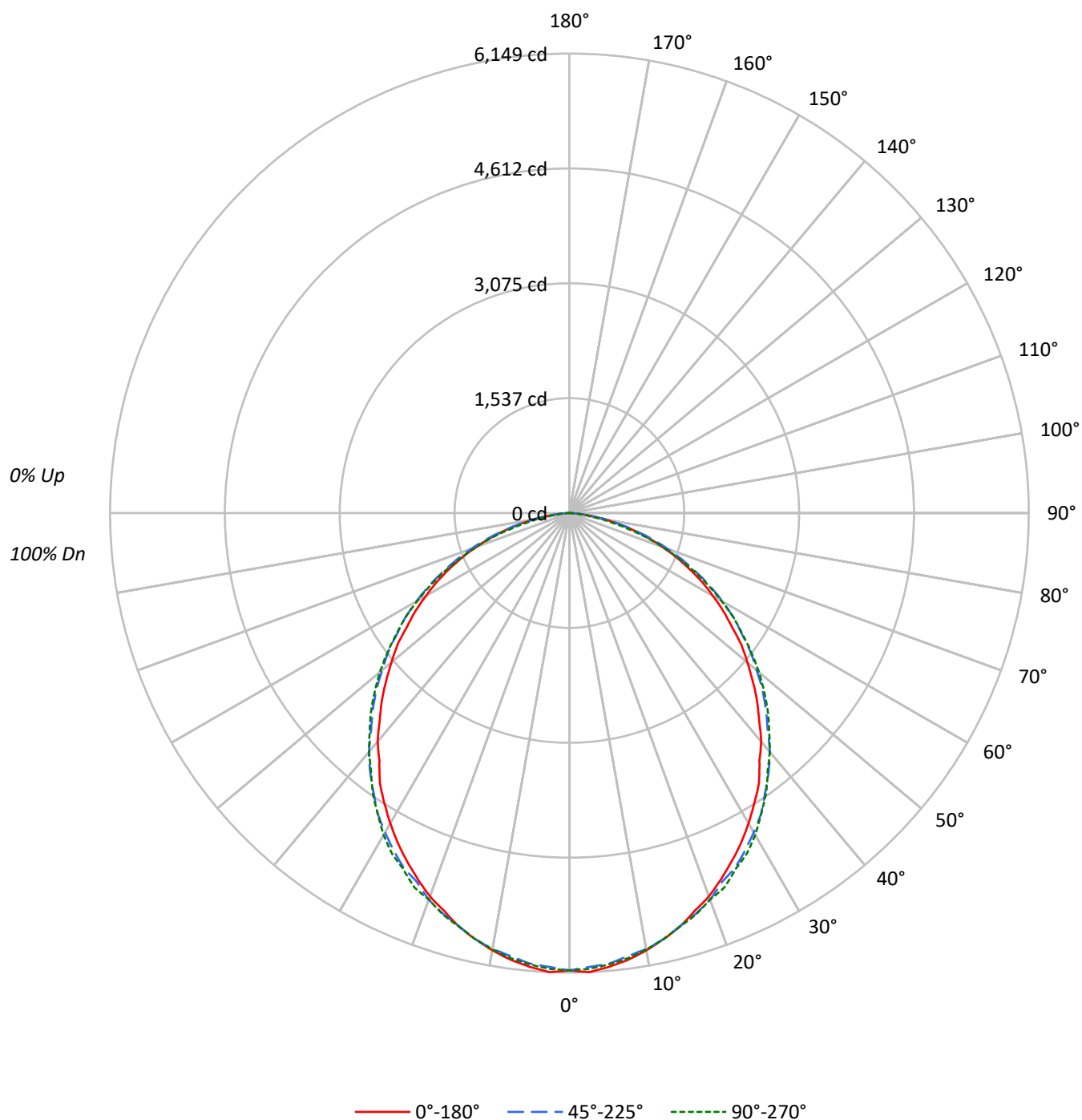
Lumens per Lamp: N/A
Luminaire Lumens: 15717.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	8233	8233	8233
5°	8233	8174	8188
10°	8118	8090	8100
15°	7978	7969	7974
20°	7818	7885	7880
25°	7634	7783	7808
30°	7449	7667	7729
35°	7265	7501	7534
40°	7016	7334	7328
45°	6761	7079	7149
50°	6506	6842	6933
55°	6231	6600	6640
60°	5969	6365	6320
65°	5656	5975	5858
70°	5212	5488	5238
75°	4609	4800	4192
80°	3707	3759	2930
85°	2427	2325	1704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.2	3.7
10°-20°	1617.3	10.3
20°-30°	2407.8	15.3
30°-40°	2834.2	18.0
40°-50°	2841.6	18.1
50°-60°	2491.8	15.9
60°-70°	1822.1	11.6
70°-80°	939.0	6.0
80°-90°	188.4	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°	4600.3	29.3
0°-40°	7434.4	47.3
0°-60°	12767.8	81.2
0°-90°	15717.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15717.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6119	6119	6119	6119	6119	
5°	6096	6056	6052	6092	6062	577
15°	5728	5738	5721	5758	5724	1612
25°	5142	5166	5243	5316	5259	2369
35°	4423	4443	4567	4617	4587	2754
45°	3553	3570	3720	3767	3757	2738
55°	2656	2717	2814	2854	2830	2384
65°	1776	1817	1877	1870	1840	1757
75°	887	893	923	860	806	940
85°	157	154	151	120	110	205
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6119.1	6119.1	6119.1	6119.1	6119.1
2.5°	6149.2	6119.1	6079.0	6112.4	6105.8
5°	6095.7	6055.6	6052.2	6092.4	6062.3
7.5°	6028.8	6022.1	5982.0	6025.5	6008.7
10°	5941.8	5935.1	5921.7	5951.9	5928.4
12.5°	5838.1	5831.4	5838.1	5854.8	5838.1
15°	5727.7	5737.7	5721.0	5757.8	5724.4
17.5°	5580.5	5590.5	5624.0	5637.4	5634.0
20°	5460.0	5466.7	5506.9	5560.4	5503.5
22.5°	5302.8	5319.5	5339.6	5436.6	5423.2
25°	5142.2	5165.6	5242.6	5316.2	5259.3
27.5°	4974.9	4998.4	5092.0	5145.6	5138.9
30°	4794.3	4817.7	4934.8	5008.4	4974.9
32.5°	4606.9	4647.1	4774.2	4837.8	4774.2
35°	4422.9	4443.0	4566.8	4617.0	4586.8
37.5°	4178.7	4255.6	4379.4	4412.9	4359.3
40°	3994.7	3998.0	4175.3	4175.3	4172.0
42.5°	3757.1	3810.7	3927.8	3991.3	3957.9
45°	3553.0	3569.8	3720.3	3767.2	3757.1
47.5°	3328.9	3395.8	3506.2	3559.7	3533.0
50°	3108.1	3154.9	3268.7	3338.9	3312.2
52.5°	2904.0	2940.8	3057.9	3098.0	3071.3
55°	2656.4	2716.6	2813.7	2853.8	2830.4
57.5°	2442.3	2485.8	2606.2	2619.6	2606.2
60°	2218.1	2268.3	2365.4	2375.4	2348.6
62.5°	2004.0	2037.5	2124.5	2127.8	2097.7
65°	1776.5	1816.7	1876.9	1870.2	1840.1
67.5°	1552.4	1579.1	1636.0	1612.6	1579.1
70°	1324.9	1348.3	1395.1	1361.7	1331.6
72.5°	1104.1	1120.8	1160.9	1110.7	1073.9
75°	886.6	893.3	923.4	859.8	806.3
77.5°	672.5	679.2	695.9	632.3	572.1
80°	478.4	478.4	485.1	418.2	378.1
82.5°	301.1	301.1	297.8	247.6	224.2
85°	157.2	153.9	150.6	120.4	110.4
87.5°	56.9	56.9	46.8	43.5	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)