

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: P487214

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-30-120-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: P487214
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-LD4-3HI-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

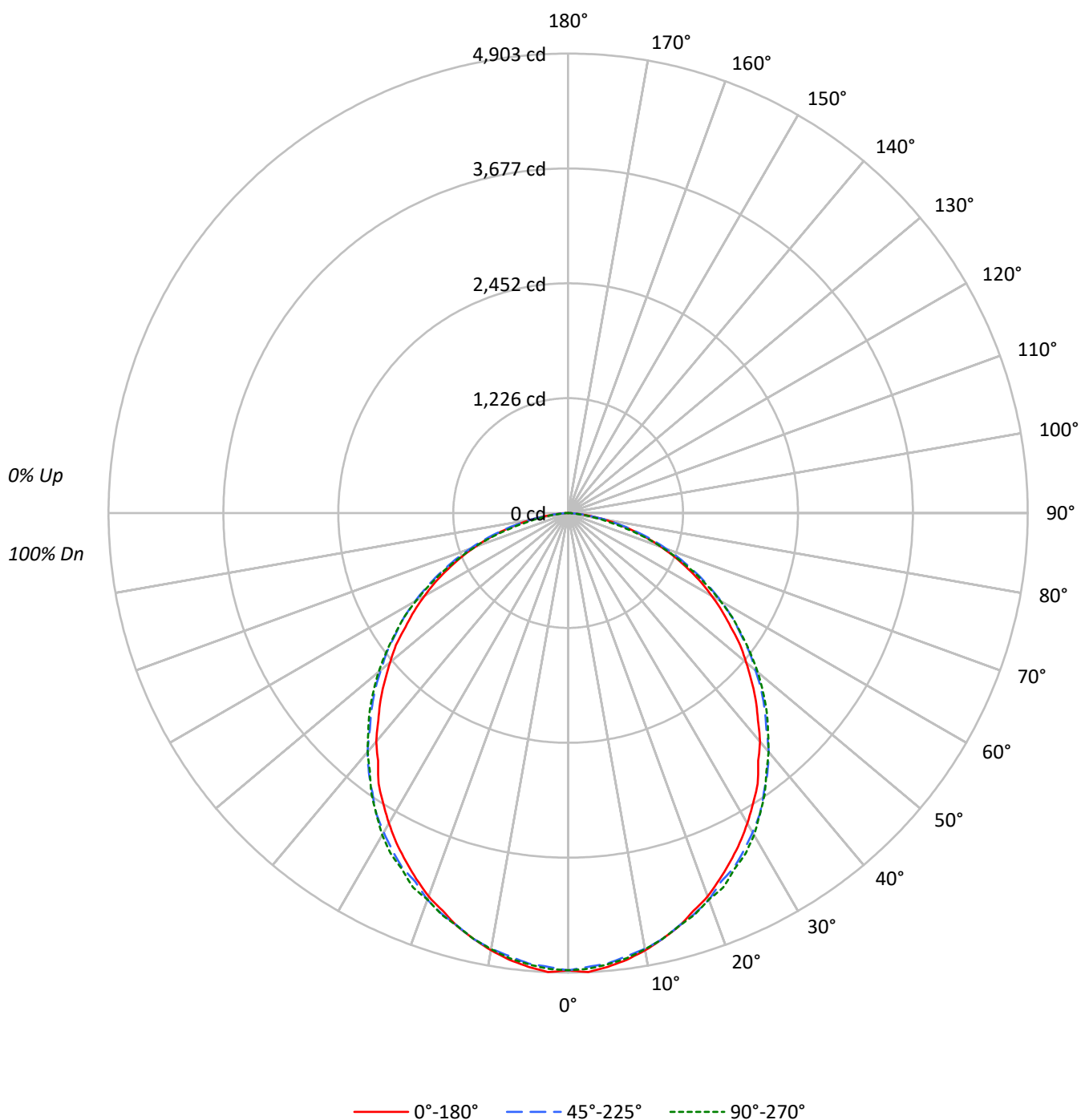
Lumens per Lamp: N/A
Luminaire Lumens: 12530.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6564	6564	6564
5°	6564	6517	6528
10°	6472	6450	6458
15°	6361	6353	6357
20°	6233	6286	6283
25°	6086	6205	6225
30°	5938	6112	6162
35°	5792	5980	6007
40°	5594	5847	5842
45°	5390	5644	5700
50°	5187	5455	5528
55°	4968	5262	5294
60°	4759	5075	5039
65°	4509	4764	4670
70°	4155	4376	4176
75°	3674	3827	3342
80°	2955	2997	2335
85°	1936	1853	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.6	3.7
10°-20°	1289.4	10.3
20°-30°	1919.7	15.3
30°-40°	2259.6	18.0
40°-50°	2265.5	18.1
50°-60°	1986.6	15.9
60°-70°	1452.7	11.6
70°-80°	748.7	6.0
80°-90°	150.2	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°	3667.6	29.3
0°-40°	5927.2	47.3
0°-60°	10179.3	81.2
0°-90°	12530.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12530.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4879	4879	4879	4879	4879	
5°	4860	4828	4825	4857	4833	460
15°	4566	4574	4561	4590	4564	1285
25°	4100	4118	4180	4238	4193	1888
35°	3526	3542	3641	3681	3657	2196
45°	2833	2846	2966	3003	2995	2183
55°	2118	2166	2243	2275	2257	1901
65°	1416	1448	1496	1491	1467	1401
75°	707	712	736	686	643	749
85°	125	123	120	96	88	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4878.6	4878.6	4878.6	4878.6	4878.6
2.5°	4902.6	4878.6	4846.6	4873.2	4867.9
5°	4859.9	4827.9	4825.2	4857.2	4833.2
7.5°	4806.5	4801.2	4769.2	4803.9	4790.5
10°	4737.2	4731.9	4721.2	4745.2	4726.5
12.5°	4654.5	4649.2	4654.5	4667.8	4654.5
15°	4566.5	4574.5	4561.1	4590.5	4563.8
17.5°	4449.1	4457.1	4483.8	4494.5	4491.8
20°	4353.1	4358.4	4390.4	4433.1	4387.8
22.5°	4227.7	4241.1	4257.1	4334.4	4323.8
25°	4099.7	4118.4	4179.7	4238.4	4193.1
27.5°	3966.3	3985.0	4059.7	4102.4	4097.0
30°	3822.3	3841.0	3934.3	3993.0	3966.3
32.5°	3672.9	3704.9	3806.3	3857.0	3806.3
35°	3526.2	3542.2	3640.9	3680.9	3656.9
37.5°	3331.5	3392.9	3491.5	3518.2	3475.5
40°	3184.8	3187.5	3328.8	3328.8	3326.2
42.5°	2995.4	3038.1	3131.5	3182.1	3155.5
45°	2832.7	2846.0	2966.1	3003.4	2995.4
47.5°	2654.0	2707.3	2795.4	2838.0	2816.7
50°	2478.0	2515.3	2606.0	2662.0	2640.7
52.5°	2315.2	2344.6	2437.9	2470.0	2448.6
55°	2117.9	2165.9	2243.2	2275.2	2256.6
57.5°	1947.2	1981.8	2077.9	2088.5	2077.9
60°	1768.4	1808.5	1885.8	1893.8	1872.5
62.5°	1597.7	1624.4	1693.8	1696.4	1672.4
65°	1416.4	1448.4	1496.4	1491.0	1467.0
67.5°	1237.6	1259.0	1304.3	1285.7	1259.0
70°	1056.3	1074.9	1112.3	1085.6	1061.6
72.5°	880.2	893.6	925.6	885.6	856.2
75°	706.8	712.2	736.2	685.5	642.8
77.5°	536.1	541.5	554.8	504.1	456.1
80°	381.4	381.4	386.8	333.4	301.4
82.5°	240.1	240.1	237.4	197.4	178.7
85°	125.4	122.7	120.0	96.0	88.0
87.5°	45.3	45.3	37.3	34.7	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)