

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: P487272

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-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: P487272
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-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

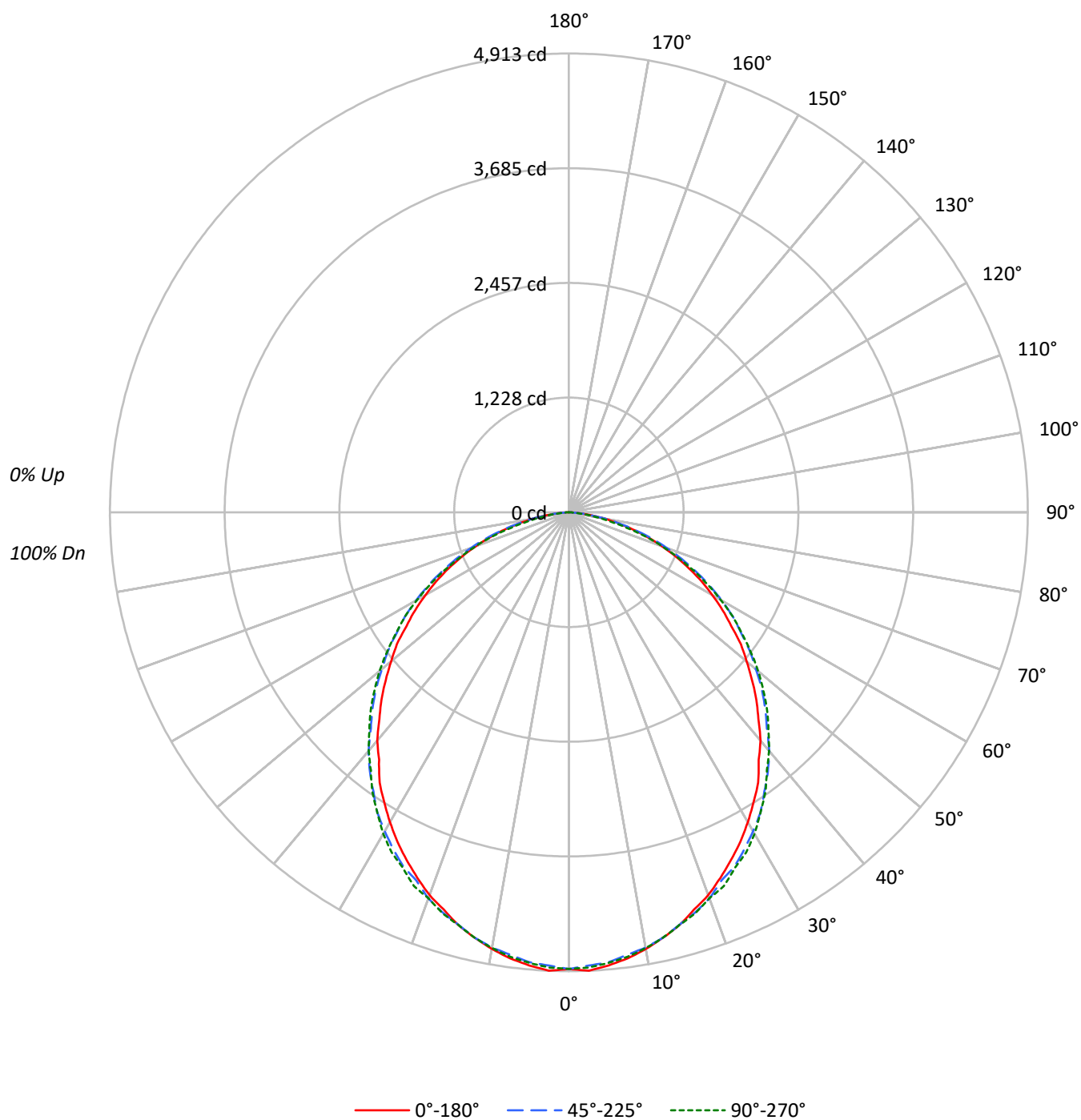
Lumens per Lamp: N/A
Luminaire Lumens: 12557.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6578	6578	6578
5°	6578	6531	6542
10°	6486	6464	6471
15°	6374	6367	6371
20°	6246	6300	6296
25°	6099	6218	6238
30°	5951	6126	6175
35°	5804	5993	6019
40°	5606	5859	5855
45°	5402	5656	5712
50°	5198	5466	5539
55°	4979	5273	5305
60°	4769	5085	5050
65°	4519	4774	4681
70°	4164	4385	4185
75°	3683	3836	3349
80°	2961	3003	2341
85°	1939	1857	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.5	3.7
10°-20°	1292.1	10.3
20°-30°	1923.8	15.3
30°-40°	2264.4	18.0
40°-50°	2270.3	18.1
50°-60°	1990.9	15.9
60°-70°	1455.8	11.6
70°-80°	750.3	6.0
80°-90°	150.5	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°	3675.4	29.3
0°-40°	5939.8	47.3
0°-60°	10201.0	81.2
0°-90°	12557.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12557.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4889	4889	4889	4889	4889	
5°	4870	4838	4836	4868	4844	461
15°	4576	4584	4571	4600	4574	1288
25°	4108	4127	4189	4247	4202	1892
35°	3534	3550	3649	3689	3665	2201
45°	2839	2852	2972	3010	3002	2188
55°	2122	2170	2248	2280	2261	1905
65°	1419	1452	1500	1494	1470	1404
75°	708	714	738	687	644	751
85°	126	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°	4889.0	4889.0	4889.0	4889.0	4889.0
2.5°	4913.0	4889.0	4856.9	4883.6	4878.3
5°	4870.2	4838.2	4835.5	4867.6	4843.5
7.5°	4816.8	4811.4	4779.4	4814.1	4800.7
10°	4747.3	4741.9	4731.2	4755.3	4736.6
12.5°	4664.4	4659.1	4664.4	4677.8	4664.4
15°	4576.2	4584.2	4570.9	4600.3	4573.5
17.5°	4458.6	4466.6	4493.3	4504.0	4501.4
20°	4362.4	4367.7	4399.8	4442.6	4397.1
22.5°	4236.7	4250.1	4266.1	4343.7	4333.0
25°	4108.4	4127.1	4188.6	4247.4	4202.0
27.5°	3974.8	3993.5	4068.3	4111.1	4105.8
30°	3830.4	3849.2	3942.7	4001.5	3974.8
32.5°	3680.7	3712.8	3814.4	3865.2	3814.4
35°	3533.7	3549.8	3648.7	3688.8	3664.7
37.5°	3338.6	3400.1	3499.0	3525.7	3482.9
40°	3191.6	3194.3	3335.9	3335.9	3333.3
42.5°	3001.8	3044.6	3138.1	3188.9	3162.2
45°	2838.7	2852.1	2972.4	3009.8	3001.8
47.5°	2659.7	2713.1	2801.3	2844.1	2822.7
50°	2483.2	2520.7	2611.5	2667.7	2646.3
52.5°	2320.2	2349.6	2443.1	2475.2	2453.8
55°	2122.4	2170.5	2248.0	2280.1	2261.4
57.5°	1951.3	1986.1	2082.3	2093.0	2082.3
60°	1772.2	1812.3	1889.8	1897.8	1876.5
62.5°	1601.1	1627.9	1697.4	1700.0	1676.0
65°	1419.4	1451.5	1499.6	1494.2	1470.2
67.5°	1240.3	1261.7	1307.1	1288.4	1261.7
70°	1058.5	1077.2	1114.6	1087.9	1063.9
72.5°	882.1	895.5	927.5	887.4	858.0
75°	708.4	713.7	737.8	687.0	644.2
77.5°	537.3	542.6	556.0	505.2	457.1
80°	382.2	382.2	387.6	334.1	302.1
82.5°	240.6	240.6	237.9	197.8	179.1
85°	125.6	123.0	120.3	96.2	88.2
87.5°	45.4	45.4	37.4	34.7	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)