

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: P486025

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-27-120-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: P486025
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-24-2-INS-A125-LD4-6HI-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

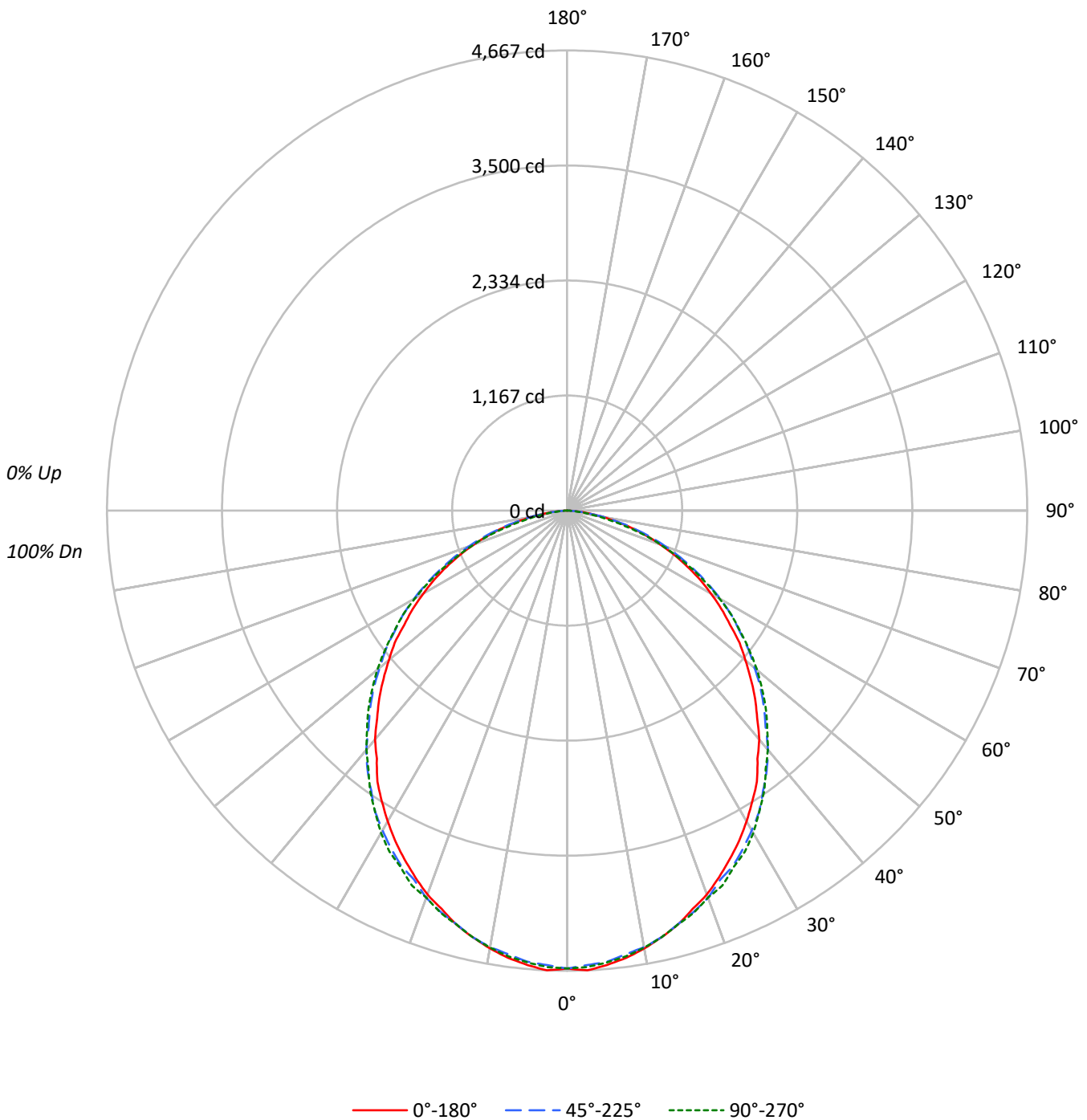
Lumens per Lamp: N/A
Luminaire Lumens: 11929.2 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	0
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°	12498	12498	12498
5°	12497	12408	12429
10°	12323	12281	12295
15°	12111	12097	12104
20°	11867	11969	11962
25°	11588	11814	11852
30°	11307	11638	11733
35°	11028	11386	11436
40°	10651	11132	11123
45°	10263	10746	10852
50°	9876	10386	10524
55°	9459	10019	10078
60°	9061	9662	9594
65°	8585	9070	8893
70°	7911	8331	7951
75°	6996	7286	6363
80°	5627	5706	4446
85°	3683	3529	2587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.5	3.7
10°-20°	1227.5	10.3
20°-30°	1827.5	15.3
30°-40°	2151.1	18.0
40°-50°	2156.7	18.1
50°-60°	1891.3	15.9
60°-70°	1382.9	11.6
70°-80°	712.7	6.0
80°-90°	143.0	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°	3491.5	29.3
0°-40°	5642.6	47.3
0°-60°	9690.6	81.2
0°-90°	11929.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11929.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4644	4644	4644	4644	4644	
5°	4626	4596	4594	4624	4601	438
15°	4347	4355	4342	4370	4345	1223
25°	3903	3921	3979	4035	3992	1798
35°	3357	3372	3466	3504	3481	2091
45°	2697	2709	2824	2859	2852	2078
55°	2016	2062	2136	2166	2148	1810
65°	1348	1379	1424	1419	1397	1334
75°	673	678	701	653	612	713
85°	119	117	114	91	84	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4644.3	4644.3	4644.3	4644.3	4644.3
2.5°	4667.2	4644.3	4613.8	4639.2	4634.1
5°	4626.5	4596.1	4593.5	4624.0	4601.1
7.5°	4575.7	4570.7	4540.2	4573.2	4560.5
10°	4509.7	4504.6	4494.5	4517.3	4499.6
12.5°	4431.0	4425.9	4431.0	4443.7	4431.0
15°	4347.2	4354.8	4342.1	4370.1	4344.7
17.5°	4235.5	4243.1	4268.5	4278.7	4276.1
20°	4144.1	4149.1	4179.6	4220.2	4177.1
22.5°	4024.7	4037.4	4052.7	4126.3	4116.1
25°	3902.8	3920.6	3979.0	4034.9	3991.7
27.5°	3775.9	3793.7	3864.8	3905.4	3900.3
30°	3638.8	3656.5	3745.4	3801.3	3775.9
32.5°	3496.6	3527.0	3623.5	3671.8	3623.5
35°	3356.9	3372.1	3466.1	3504.2	3481.3
37.5°	3171.5	3229.9	3323.9	3349.3	3308.7
40°	3031.9	3034.4	3169.0	3169.0	3166.5
42.5°	2851.6	2892.2	2981.1	3029.3	3003.9
45°	2696.7	2709.4	2823.7	2859.2	2851.6
47.5°	2526.6	2577.3	2661.1	2701.8	2681.5
50°	2359.0	2394.5	2480.9	2534.2	2513.9
52.5°	2204.1	2232.0	2320.9	2351.4	2331.0
55°	2016.2	2061.9	2135.5	2166.0	2148.2
57.5°	1853.7	1886.7	1978.1	1988.2	1978.1
60°	1683.5	1721.6	1795.3	1802.9	1782.6
62.5°	1521.0	1546.4	1612.4	1615.0	1592.1
65°	1348.3	1378.8	1424.5	1419.4	1396.6
67.5°	1178.2	1198.5	1241.7	1223.9	1198.5
70°	1005.5	1023.3	1058.9	1033.5	1010.6
72.5°	838.0	850.7	881.1	843.0	815.1
75°	672.9	678.0	700.8	652.6	612.0
77.5°	510.4	515.5	528.2	479.9	434.2
80°	363.1	363.1	368.2	317.4	286.9
82.5°	228.5	228.5	226.0	187.9	170.1
85°	119.3	116.8	114.3	91.4	83.8
87.5°	43.2	43.2	35.5	33.0	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)