

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: P485191

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-40-120-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: P485191
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-12-4-INS-A125-LD4-3STD-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

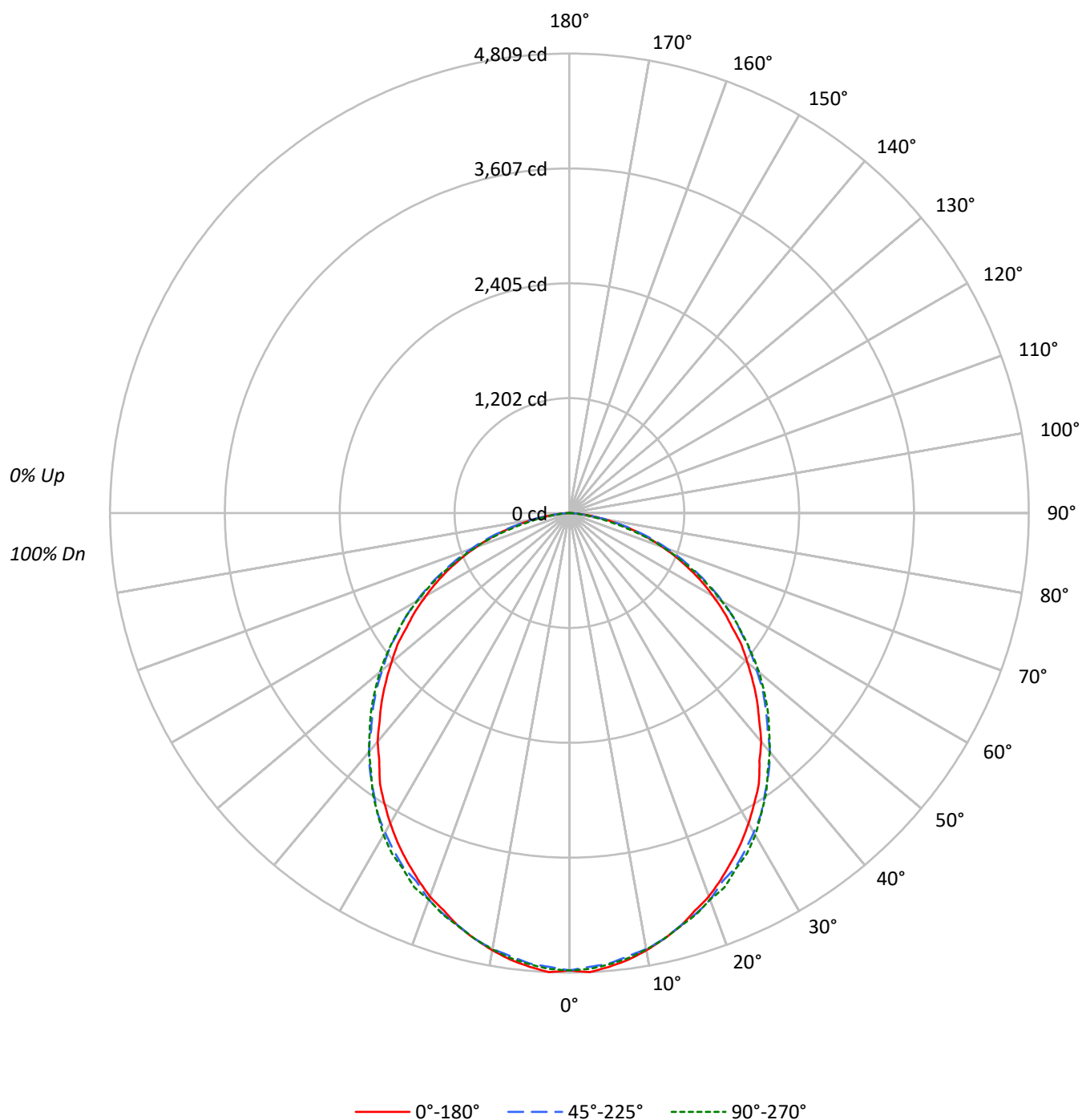
Lumens per Lamp: N/A
Luminaire Lumens: 12292.8 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	12879	12879	12879
5°	12878	12786	12808
10°	12698	12656	12670
15°	12480	12466	12473
20°	12229	12334	12326
25°	11941	12174	12213
30°	11651	11993	12090
35°	11364	11733	11785
40°	10975	11471	11462
45°	10575	11073	11183
50°	10177	10703	10845
55°	9747	10324	10386
60°	9337	9957	9886
65°	8847	9347	9164
70°	8153	8585	8194
75°	7209	7509	6556
80°	5799	5879	4582
85°	3798	3634	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	3.7
10°-20°	1264.9	10.3
20°-30°	1883.2	15.3
30°-40°	2216.6	18.0
40°-50°	2222.5	18.1
50°-60°	1948.9	15.9
60°-70°	1425.1	11.6
70°-80°	734.4	6.0
80°-90°	147.3	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°	3597.9	29.3
0°-40°	5814.6	47.3
0°-60°	9985.9	81.2
0°-90°	12292.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12292.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4786	4786	4786	4786	4786	
5°	4768	4736	4734	4765	4741	451
15°	4480	4488	4474	4503	4477	1261
25°	4022	4040	4100	4158	4113	1853
35°	3459	3475	3572	3611	3587	2154
45°	2779	2792	2910	2946	2938	2142
55°	2078	2125	2201	2232	2214	1865
65°	1389	1421	1468	1463	1439	1374
75°	693	699	722	672	631	735
85°	123	120	118	94	86	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4785.9	4785.9	4785.9	4785.9	4785.9
2.5°	4809.4	4785.9	4754.5	4780.6	4775.4
5°	4767.5	4736.1	4733.5	4764.9	4741.4
7.5°	4715.2	4710.0	4678.6	4712.6	4699.5
10°	4647.2	4641.9	4631.5	4655.0	4636.7
12.5°	4566.1	4560.8	4566.1	4579.1	4566.1
15°	4479.7	4487.6	4474.5	4503.3	4477.1
17.5°	4364.6	4372.4	4398.6	4409.1	4406.4
20°	4270.4	4275.6	4307.0	4348.9	4304.4
22.5°	4147.4	4160.5	4176.2	4252.1	4241.6
25°	4021.8	4040.1	4100.3	4157.9	4113.4
27.5°	3891.0	3909.3	3982.5	4024.4	4019.2
30°	3749.7	3768.0	3859.6	3917.1	3891.0
32.5°	3603.1	3634.5	3734.0	3783.7	3734.0
35°	3459.2	3474.9	3571.7	3611.0	3587.4
37.5°	3268.2	3328.4	3425.2	3451.4	3409.5
40°	3124.3	3126.9	3265.6	3265.6	3263.0
42.5°	2938.5	2980.4	3072.0	3121.7	3095.5
45°	2778.9	2792.0	2909.7	2946.4	2938.5
47.5°	2603.6	2655.9	2742.3	2784.1	2763.2
50°	2430.9	2467.5	2556.5	2611.4	2590.5
52.5°	2271.3	2300.0	2391.6	2423.0	2402.1
55°	2077.6	2124.7	2200.6	2232.0	2213.7
57.5°	1910.2	1944.2	2038.4	2048.8	2038.4
60°	1734.8	1774.1	1850.0	1857.8	1836.9
62.5°	1567.4	1593.5	1661.6	1664.2	1640.6
65°	1389.4	1420.8	1467.9	1462.7	1439.2
67.5°	1214.1	1235.1	1279.5	1261.2	1235.1
70°	1036.2	1054.5	1091.1	1065.0	1041.4
72.5°	863.5	876.6	908.0	868.7	839.9
75°	693.4	698.6	722.2	672.5	630.6
77.5°	525.9	531.2	544.3	494.5	447.4
80°	374.2	374.2	379.4	327.1	295.7
82.5°	235.5	235.5	232.9	193.6	175.3
85°	123.0	120.4	117.7	94.2	86.3
87.5°	44.5	44.5	36.6	34.0	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)