

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: P485162

Luminaire Tested: **ORLG-12-4-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: P485162
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-LD4-3HI-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

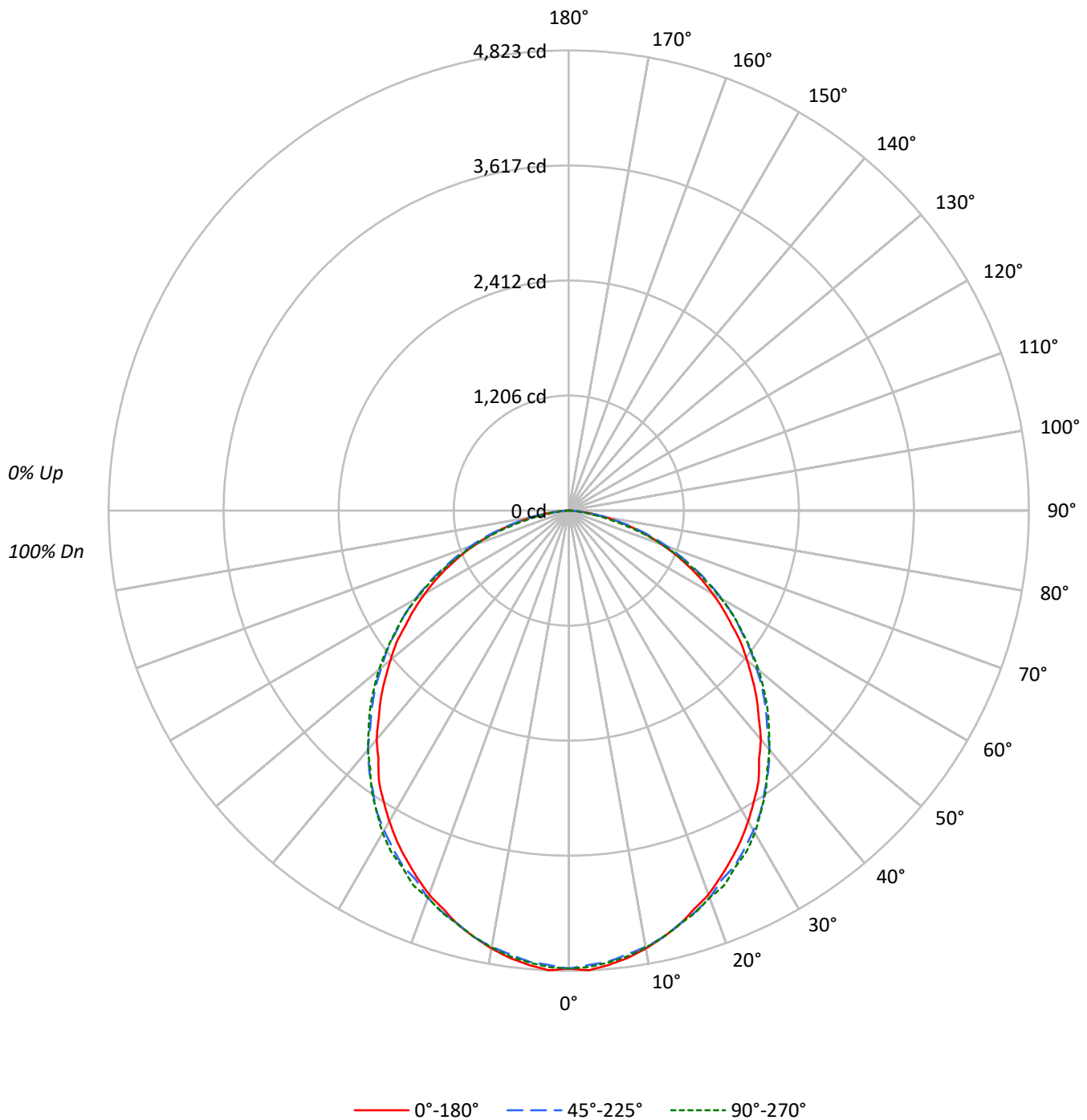
Lumens per Lamp: N/A
Luminaire Lumens: 12327.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12915	12915	12915
5°	12914	12822	12843
10°	12734	12691	12705
15°	12515	12500	12508
20°	12263	12368	12361
25°	11975	12208	12247
30°	11684	12026	12124
35°	11395	11766	11818
40°	11006	11503	11494
45°	10605	11104	11214
50°	10205	10732	10875
55°	9774	10353	10414
60°	9363	9984	9914
65°	8872	9373	9189
70°	8176	8609	8216
75°	7229	7530	6575
80°	5814	5897	4595
85°	3807	3646	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	3.7
10°-20°	1268.4	10.3
20°-30°	1888.4	15.3
30°-40°	2222.8	18.0
40°-50°	2228.6	18.1
50°-60°	1954.3	15.9
60°-70°	1429.1	11.6
70°-80°	736.5	6.0
80°-90°	147.8	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°	3607.9	29.3
0°-40°	5830.7	47.3
0°-60°	10013.7	81.2
0°-90°	12327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4799	4799	4799	4799	4799	
5°	4781	4749	4747	4778	4755	453
15°	4492	4500	4487	4516	4490	1264
25°	4033	4051	4112	4169	4125	1858
35°	3469	3485	3582	3621	3597	2160
45°	2787	2800	2918	2955	2947	2148
55°	2083	2131	2207	2238	2220	1870
65°	1393	1425	1472	1467	1443	1378
75°	695	701	724	674	632	737
85°	123	121	118	94	87	161
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4799.2	4799.2	4799.2	4799.2	4799.2
2.5°	4822.8	4799.2	4767.7	4793.9	4788.7
5°	4780.8	4749.3	4746.7	4778.2	4754.6
7.5°	4728.3	4723.1	4691.6	4725.7	4712.6
10°	4660.1	4654.9	4644.4	4668.0	4649.6
12.5°	4578.8	4573.5	4578.8	4591.9	4578.8
15°	4492.2	4500.0	4486.9	4515.8	4489.6
17.5°	4376.7	4384.6	4410.8	4421.3	4418.7
20°	4282.3	4287.5	4319.0	4361.0	4316.4
22.5°	4158.9	4172.1	4187.8	4263.9	4253.4
25°	4033.0	4051.4	4111.7	4169.4	4124.8
27.5°	3901.8	3920.2	3993.6	4035.6	4030.4
30°	3760.1	3778.5	3870.3	3928.0	3901.8
32.5°	3613.2	3644.6	3744.4	3794.2	3744.4
35°	3468.8	3484.6	3581.7	3621.0	3597.4
37.5°	3277.3	3337.6	3434.7	3461.0	3419.0
40°	3133.0	3135.6	3274.7	3274.7	3272.0
42.5°	2946.7	2988.7	3080.5	3130.4	3104.1
45°	2786.6	2799.7	2917.8	2954.6	2946.7
47.5°	2610.8	2663.3	2749.9	2791.9	2770.9
50°	2437.6	2474.4	2563.6	2618.7	2597.7
52.5°	2277.6	2306.4	2398.3	2429.8	2408.8
55°	2083.4	2130.6	2206.7	2238.2	2219.8
57.5°	1915.5	1949.6	2044.0	2054.5	2044.0
60°	1739.7	1779.0	1855.1	1863.0	1842.0
62.5°	1571.7	1598.0	1666.2	1668.8	1645.2
65°	1393.3	1424.8	1472.0	1466.8	1443.2
67.5°	1217.5	1238.5	1283.1	1264.7	1238.5
70°	1039.1	1057.4	1094.2	1067.9	1044.3
72.5°	865.9	879.0	910.5	871.1	842.3
75°	695.3	700.6	724.2	674.4	632.4
77.5°	527.4	532.7	545.8	495.9	448.7
80°	375.2	375.2	380.5	328.0	296.5
82.5°	236.2	236.2	233.5	194.2	175.8
85°	123.3	120.7	118.1	94.5	86.6
87.5°	44.6	44.6	36.7	34.1	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)