

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: P485184

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-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: P485184
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-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

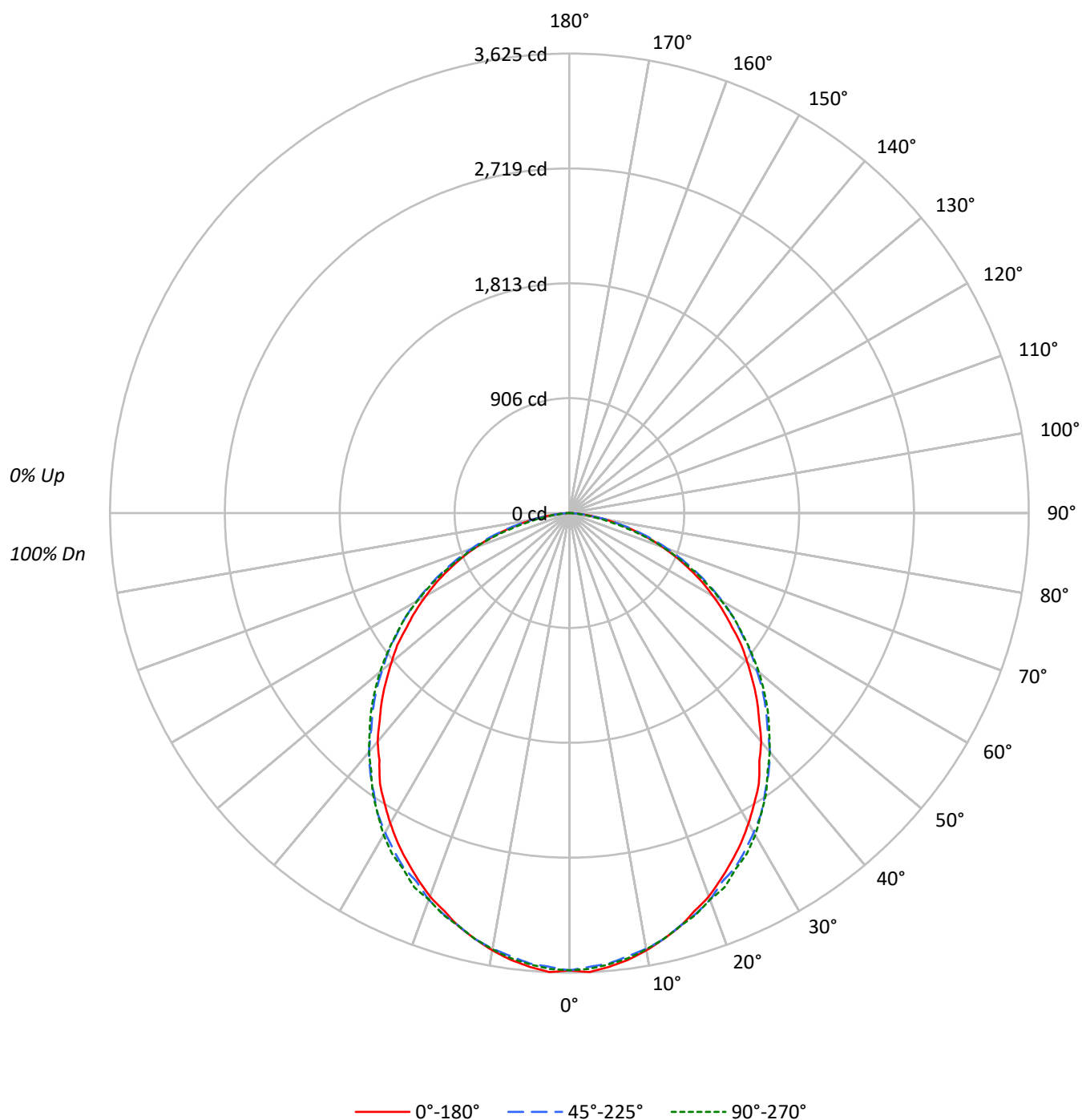
Lumens per Lamp: N/A
Luminaire Lumens: 9264.9 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
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°	9706	9706	9706
5°	9706	9637	9653
10°	9571	9538	9549
15°	9406	9395	9400
20°	9217	9296	9290
25°	9000	9176	9205
30°	8781	9039	9112
35°	8565	8843	8882
40°	8272	8646	8639
45°	7970	8346	8428
50°	7670	8066	8174
55°	7347	7781	7827
60°	7037	7504	7451
65°	6668	7045	6907
70°	6145	6471	6176
75°	5434	5659	4942
80°	4370	4432	3454
85°	2862	2739	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.0	3.7
10°-20°	953.3	10.3
20°-30°	1419.3	15.3
30°-40°	1670.6	18.0
40°-50°	1675.0	18.1
50°-60°	1468.9	15.9
60°-70°	1074.1	11.6
70°-80°	553.5	6.0
80°-90°	111.0	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°	2711.7	29.3
0°-40°	4382.3	47.3
0°-60°	7526.2	81.2
0°-90°	9264.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9264.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3607	3607	3607	3607	3607	
5°	3593	3570	3568	3591	3574	340
15°	3376	3382	3372	3394	3374	950
25°	3031	3045	3090	3134	3100	1396
35°	2607	2619	2692	2722	2704	1624
45°	2094	2104	2193	2221	2215	1614
55°	1566	1601	1659	1682	1668	1406
65°	1047	1071	1106	1102	1085	1036
75°	523	527	544	507	475	554
85°	93	91	89	71	65	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3607.0	3607.0	3607.0	3607.0	3607.0
2.5°	3624.8	3607.0	3583.4	3603.1	3599.1
5°	3593.2	3569.6	3567.6	3591.3	3573.5
7.5°	3553.8	3549.8	3526.2	3551.8	3542.0
10°	3502.5	3498.6	3490.7	3508.4	3494.6
12.5°	3441.4	3437.4	3441.4	3451.2	3441.4
15°	3376.3	3382.2	3372.3	3394.0	3374.3
17.5°	3289.5	3295.4	3315.2	3323.0	3321.1
20°	3218.5	3222.5	3246.1	3277.7	3244.2
22.5°	3125.8	3135.7	3147.5	3204.7	3196.8
25°	3031.2	3045.0	3090.3	3133.7	3100.2
27.5°	2932.6	2946.4	3001.6	3033.1	3029.2
30°	2826.1	2839.9	2908.9	2952.3	2932.6
32.5°	2715.6	2739.3	2814.2	2851.7	2814.2
35°	2607.2	2619.0	2692.0	2721.5	2703.8
37.5°	2463.2	2508.6	2581.5	2601.2	2569.7
40°	2354.7	2356.7	2461.2	2461.2	2459.3
42.5°	2214.7	2246.3	2315.3	2352.8	2333.0
45°	2094.4	2104.3	2193.0	2220.6	2214.7
47.5°	1962.3	2001.7	2066.8	2098.4	2082.6
50°	1832.1	1859.7	1926.8	1968.2	1952.4
52.5°	1711.8	1733.5	1802.5	1826.2	1810.4
55°	1565.9	1601.4	1658.6	1682.2	1668.4
57.5°	1439.7	1465.3	1536.3	1544.2	1536.3
60°	1307.5	1337.1	1394.3	1400.2	1384.4
62.5°	1181.3	1201.0	1252.3	1254.3	1236.5
65°	1047.2	1070.9	1106.4	1102.4	1084.7
67.5°	915.1	930.8	964.4	950.6	930.8
70°	781.0	794.8	822.4	802.7	784.9
72.5°	650.8	660.7	684.3	654.7	633.1
75°	522.6	526.6	544.3	506.8	475.3
77.5°	396.4	400.3	410.2	372.7	337.2
80°	282.0	282.0	286.0	246.5	222.9
82.5°	177.5	177.5	175.5	145.9	132.1
85°	92.7	90.7	88.7	71.0	65.1
87.5°	33.5	33.5	27.6	25.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)