

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: P485190

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-40-120-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: P485190
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-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

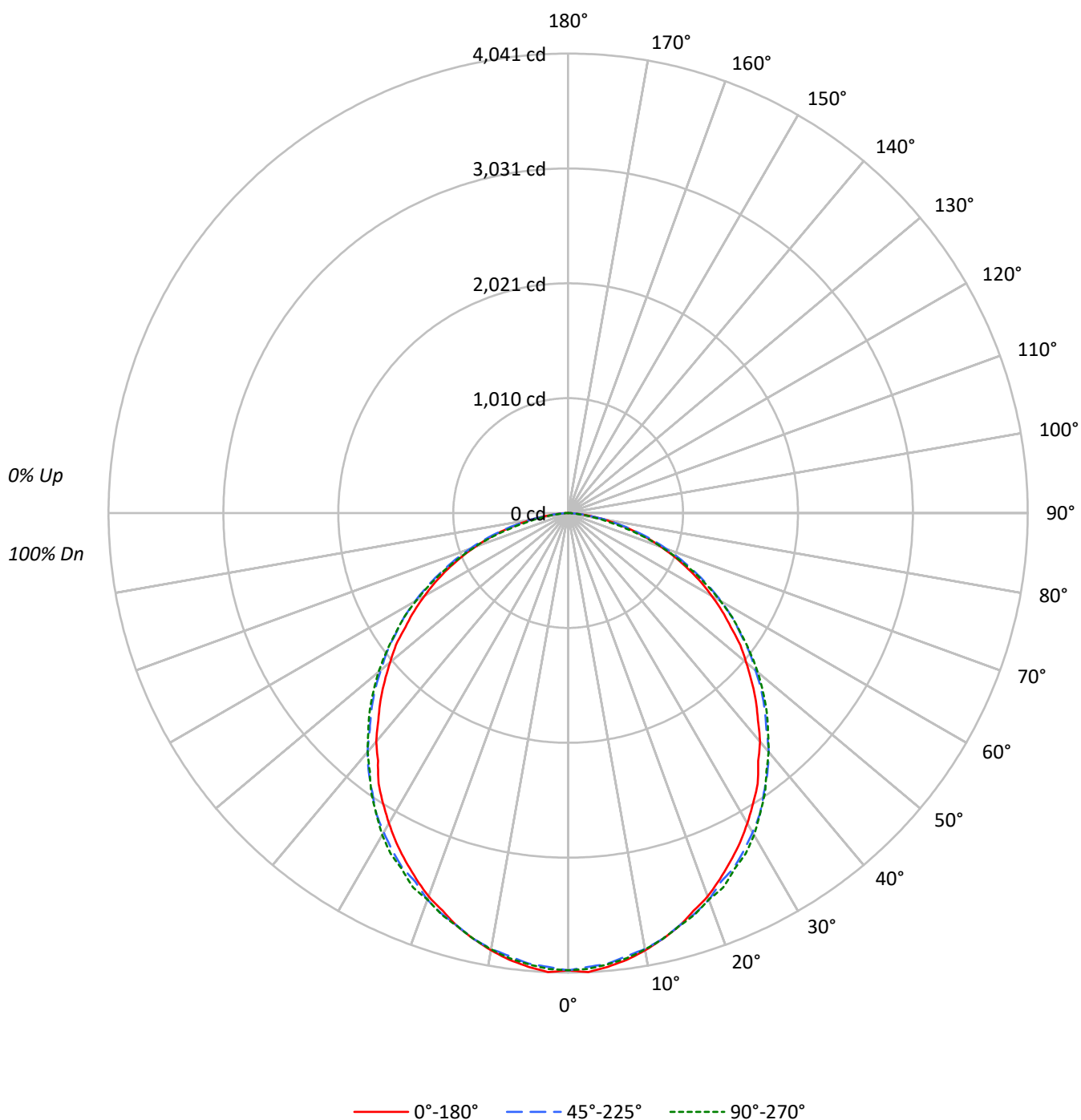
Lumens per Lamp: N/A
Luminaire Lumens: 10328.8 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	10821	10821	10821
5°	10821	10744	10762
10°	10670	10633	10646
15°	10486	10474	10480
20°	10275	10363	10357
25°	10033	10229	10262
30°	9790	10077	10159
35°	9548	9859	9902
40°	9222	9638	9631
45°	8886	9304	9396
50°	8551	8992	9112
55°	8190	8675	8726
60°	7845	8366	8307
65°	7434	7854	7699
70°	6850	7213	6884
75°	6057	6309	5509
80°	4872	4940	3849
85°	3189	3054	2242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	3.7
10°-20°	1062.8	10.3
20°-30°	1582.3	15.3
30°-40°	1862.5	18.0
40°-50°	1867.4	18.1
50°-60°	1637.5	15.9
60°-70°	1197.4	11.6
70°-80°	617.1	6.0
80°-90°	123.8	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°	3023.1	29.3
0°-40°	4885.6	47.3
0°-60°	8390.5	81.2
0°-90°	10328.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10328.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4021	4021	4021	4021	4021	
5°	4006	3980	3977	4004	3984	379
15°	3764	3771	3760	3784	3762	1059
25°	3379	3395	3445	3494	3456	1557
35°	2906	2920	3001	3034	3014	1810
45°	2335	2346	2445	2476	2469	1799
55°	1746	1785	1849	1875	1860	1567
65°	1168	1194	1233	1229	1209	1155
75°	583	587	607	565	530	617
85°	103	101	99	79	73	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4021.2	4021.2	4021.2	4021.2	4021.2
2.5°	4041.0	4021.2	3994.9	4016.8	4012.4
5°	4005.8	3979.5	3977.3	4003.6	3983.9
7.5°	3961.9	3957.5	3931.1	3959.7	3948.7
10°	3904.7	3900.3	3891.5	3911.3	3895.9
12.5°	3836.6	3832.2	3836.6	3847.5	3836.6
15°	3764.0	3770.6	3759.6	3783.8	3761.8
17.5°	3667.3	3673.9	3695.8	3704.6	3702.4
20°	3588.1	3592.5	3618.9	3654.1	3616.7
22.5°	3484.8	3495.8	3509.0	3572.7	3563.9
25°	3379.2	3394.6	3445.2	3493.6	3456.2
27.5°	3269.3	3284.7	3346.3	3381.4	3377.0
30°	3150.6	3166.0	3242.9	3291.3	3269.3
32.5°	3027.5	3053.9	3137.4	3179.2	3137.4
35°	2906.5	2919.7	3001.1	3034.1	3014.3
37.5°	2746.0	2796.6	2878.0	2899.9	2864.8
40°	2625.1	2627.3	2743.8	2743.8	2741.7
42.5°	2469.0	2504.2	2581.2	2622.9	2600.9
45°	2334.9	2345.9	2444.8	2475.6	2469.0
47.5°	2187.6	2231.6	2304.1	2339.3	2321.7
50°	2042.5	2073.3	2148.0	2194.2	2176.6
52.5°	1908.4	1932.6	2009.5	2035.9	2018.3
55°	1745.7	1785.3	1849.0	1875.4	1860.0
57.5°	1605.0	1633.6	1712.7	1721.5	1712.7
60°	1457.7	1490.6	1554.4	1561.0	1543.4
62.5°	1317.0	1338.9	1396.1	1398.3	1378.5
65°	1167.5	1193.8	1233.4	1229.0	1209.2
67.5°	1020.1	1037.7	1075.1	1059.7	1037.7
70°	870.6	886.0	916.8	894.8	875.0
72.5°	725.5	736.5	762.9	729.9	705.7
75°	582.6	587.0	606.8	565.0	529.9
77.5°	441.9	446.3	457.3	415.5	376.0
80°	314.4	314.4	318.8	274.8	248.4
82.5°	197.9	197.9	195.7	162.7	147.3
85°	103.3	101.1	98.9	79.1	72.6
87.5°	37.4	37.4	30.8	28.6	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)