

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: P485193

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-50-120-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: P485193
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-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

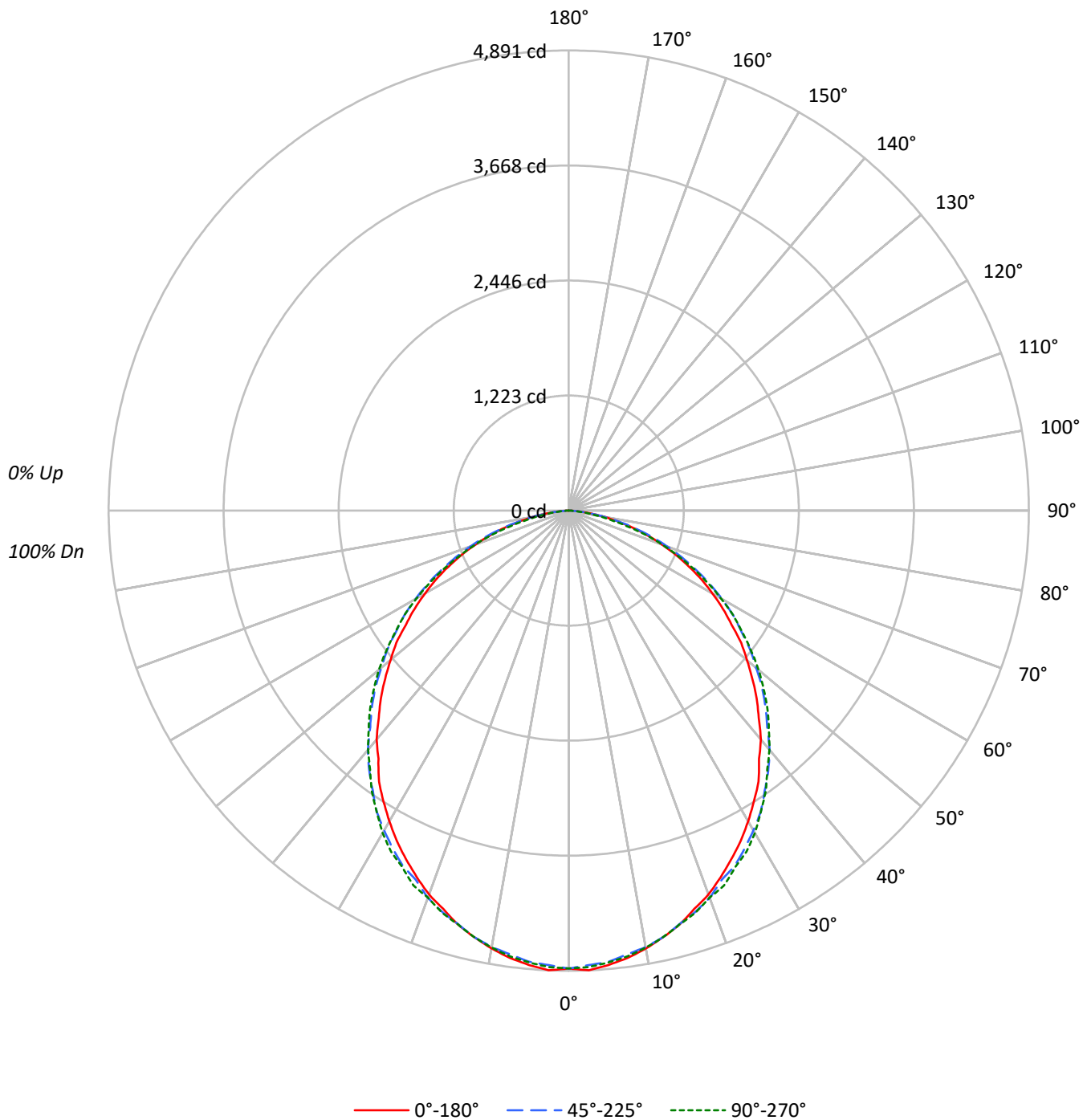
Lumens per Lamp: N/A
Luminaire Lumens: 12501.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
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°	13097	13097	13097
5°	13097	13004	13025
10°	12914	12870	12885
15°	12692	12677	12685
20°	12436	12543	12535
25°	12144	12381	12421
30°	11849	12196	12295
35°	11557	11932	11985
40°	11161	11666	11657
45°	10755	11261	11373
50°	10349	10884	11029
55°	9913	10499	10562
60°	9495	10126	10054
65°	8997	9506	9319
70°	8291	8731	8333
75°	7332	7637	6668
80°	5897	5980	4660
85°	3863	3696	2711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	3.7
10°-20°	1286.4	10.3
20°-30°	1915.1	15.3
30°-40°	2254.2	18.0
40°-50°	2260.2	18.1
50°-60°	1982.0	15.9
60°-70°	1449.3	11.6
70°-80°	746.9	6.0
80°-90°	149.8	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°	3659.0	29.3
0°-40°	5913.2	47.3
0°-60°	10155.4	81.2
0°-90°	12501.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12501.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4867	4867	4867	4867	4867	
5°	4848	4816	4814	4846	4822	459
15°	4556	4564	4550	4580	4553	1282
25°	4090	4109	4170	4228	4183	1884
35°	3518	3534	3632	3672	3648	2191
45°	2826	2839	2959	2996	2988	2178
55°	2113	2161	2238	2270	2251	1897
65°	1413	1445	1493	1488	1464	1398
75°	705	710	734	684	641	747
85°	125	122	120	96	88	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4867.1	4867.1	4867.1	4867.1	4867.1
2.5°	4891.0	4867.1	4835.1	4861.8	4856.4
5°	4848.4	4816.5	4813.9	4845.8	4821.8
7.5°	4795.2	4789.9	4758.0	4792.6	4779.3
10°	4726.0	4720.7	4710.1	4734.0	4715.4
12.5°	4643.5	4638.2	4643.5	4656.9	4643.5
15°	4555.7	4563.7	4550.4	4579.7	4553.1
17.5°	4438.6	4446.6	4473.2	4483.9	4481.2
20°	4342.8	4348.2	4380.1	4422.7	4377.4
22.5°	4217.8	4231.1	4247.0	4324.2	4313.6
25°	4090.0	4108.7	4169.9	4228.4	4183.2
27.5°	3957.0	3975.6	4050.1	4092.7	4087.4
30°	3813.3	3831.9	3925.1	3983.6	3957.0
32.5°	3664.3	3696.2	3797.3	3847.9	3797.3
35°	3517.9	3533.9	3632.3	3672.3	3648.3
37.5°	3323.7	3384.9	3483.3	3509.9	3467.4
40°	3177.3	3180.0	3321.0	3321.0	3318.3
42.5°	2988.4	3030.9	3124.1	3174.6	3148.0
45°	2826.0	2839.3	2959.1	2996.4	2988.4
47.5°	2647.8	2701.0	2788.8	2831.4	2810.1
50°	2472.1	2509.4	2599.9	2655.7	2634.4
52.5°	2309.8	2339.1	2432.2	2464.1	2442.9
55°	2112.9	2160.8	2237.9	2269.9	2251.3
57.5°	1942.6	1977.2	2073.0	2083.6	2073.0
60°	1764.3	1804.2	1881.4	1889.4	1868.1
62.5°	1594.0	1620.6	1689.8	1692.4	1668.5
65°	1413.0	1445.0	1492.9	1487.5	1463.6
67.5°	1234.7	1256.0	1301.3	1282.6	1256.0
70°	1053.8	1072.4	1109.7	1083.1	1059.1
72.5°	878.1	891.5	923.4	883.5	854.2
75°	705.2	710.5	734.5	683.9	641.3
77.5°	534.9	540.2	553.5	502.9	455.0
80°	380.5	380.5	385.9	332.6	300.7
82.5°	239.5	239.5	236.8	196.9	178.3
85°	125.1	122.4	119.7	95.8	87.8
87.5°	45.2	45.2	37.3	34.6	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)