

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: P485174

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3LO-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: P485174
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-LD4-3LO-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

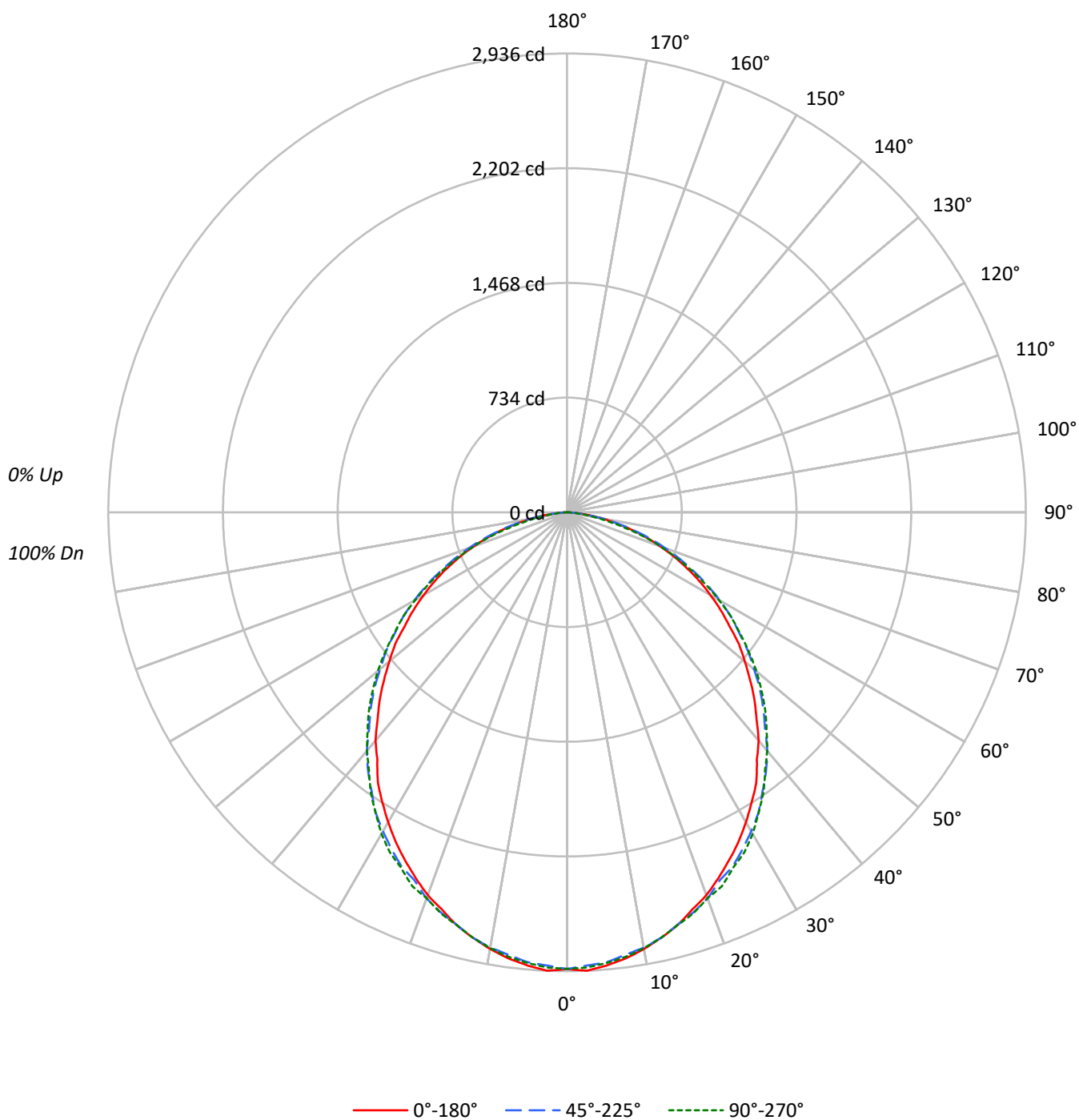
Lumens per Lamp: N/A
Luminaire Lumens: 7504.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	109	105	101	97	107	102	99	95		98	95	92			94	92	90			85
2	100	92	85	79	97	90	84	79		86	81	77			83	79	75			71
3	91	81	73	66	89	79	72	66		76	70	65			73	68	64			60
4	83	72	63	57	81	70	62	56		68	61	55			66	59	55			52
5	77	64	55	49	75	63	55	49		61	54	48			59	53	48			45
6	71	58	49	43	69	57	49	43		55	48	42			53	47	42			39
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			35
8	61	48	40	34	60	47	39	34		46	39	34			45	38	33			31
9	57	44	36	31	56	44	36	30		42	35	30			41	35	30			28
10	54	41	33	28	53	40	33	28		39	32	28			38	32	27			26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7862	7862	7862
5°	7862	7806	7819
10°	7752	7726	7735
15°	7619	7610	7614
20°	7466	7530	7525
25°	7290	7432	7456
30°	7113	7321	7381
35°	6937	7163	7195
40°	6700	7003	6998
45°	6456	6760	6827
50°	6213	6534	6621
55°	5951	6303	6340
60°	5700	6078	6035
65°	5401	5706	5594
70°	4977	5241	5002
75°	4401	4584	4003
80°	3539	3589	2797
85°	2319	2220	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	3.7
10°-20°	772.2	10.3
20°-30°	1149.7	15.3
30°-40°	1353.2	18.0
40°-50°	1356.8	18.1
50°-60°	1189.8	15.9
60°-70°	870.0	11.6
70°-80°	448.4	6.0
80°-90°	90.0	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°	2196.5	29.3
0°-40°	3549.7	47.3
0°-60°	6096.3	81.2
0°-90°	7504.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7504.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2922	2922	2922	2922	2922	
5°	2910	2891	2890	2909	2895	275
15°	2735	2740	2732	2749	2733	770
25°	2455	2466	2503	2538	2511	1131
35°	2112	2121	2180	2204	2190	1315
45°	1696	1704	1776	1799	1794	1307
55°	1268	1297	1343	1363	1351	1139
65°	848	867	896	893	879	839
75°	423	426	441	410	385	449
85°	75	74	72	58	53	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2921.7	2921.7	2921.7	2921.7	2921.7
2.5°	2936.1	2921.7	2902.5	2918.5	2915.3
5°	2910.5	2891.4	2889.8	2908.9	2894.6
7.5°	2878.6	2875.4	2856.2	2877.0	2869.0
10°	2837.0	2833.9	2827.5	2841.8	2830.7
12.5°	2787.5	2784.3	2787.5	2795.5	2787.5
15°	2734.8	2739.6	2731.6	2749.2	2733.2
17.5°	2664.5	2669.3	2685.3	2691.7	2690.1
20°	2607.0	2610.2	2629.4	2654.9	2627.8
22.5°	2531.9	2539.9	2549.5	2595.8	2589.4
25°	2455.3	2466.4	2503.2	2538.3	2511.2
27.5°	2375.4	2386.6	2431.3	2456.9	2453.7
30°	2289.1	2300.3	2356.2	2391.4	2375.4
32.5°	2199.7	2218.8	2279.5	2309.9	2279.5
35°	2111.8	2121.4	2180.5	2204.5	2190.1
37.5°	1995.2	2031.9	2091.0	2107.0	2081.5
40°	1907.3	1908.9	1993.6	1993.6	1992.0
42.5°	1793.9	1819.5	1875.4	1905.7	1889.8
45°	1696.5	1704.5	1776.3	1798.7	1793.9
47.5°	1589.4	1621.4	1674.1	1699.7	1686.9
50°	1484.0	1506.4	1560.7	1594.2	1581.5
52.5°	1386.6	1404.1	1460.1	1479.2	1466.4
55°	1268.4	1297.1	1343.4	1362.6	1351.4
57.5°	1166.1	1186.9	1244.4	1250.8	1244.4
60°	1059.1	1083.1	1129.4	1134.2	1121.4
62.5°	956.9	972.8	1014.4	1016.0	1001.6
65°	848.2	867.4	896.2	893.0	878.6
67.5°	741.2	754.0	781.1	770.0	754.0
70°	632.6	643.8	666.1	650.2	635.8
72.5°	527.2	535.1	554.3	530.3	512.8
75°	423.3	426.5	440.9	410.5	385.0
77.5°	321.1	324.3	332.3	301.9	273.2
80°	228.4	228.4	231.6	199.7	180.5
82.5°	143.8	143.8	142.2	118.2	107.0
85°	75.1	73.5	71.9	57.5	52.7
87.5°	27.2	27.2	22.4	20.8	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)