

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: P485131

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-40-120-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: P485131
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-LD4-2HI-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

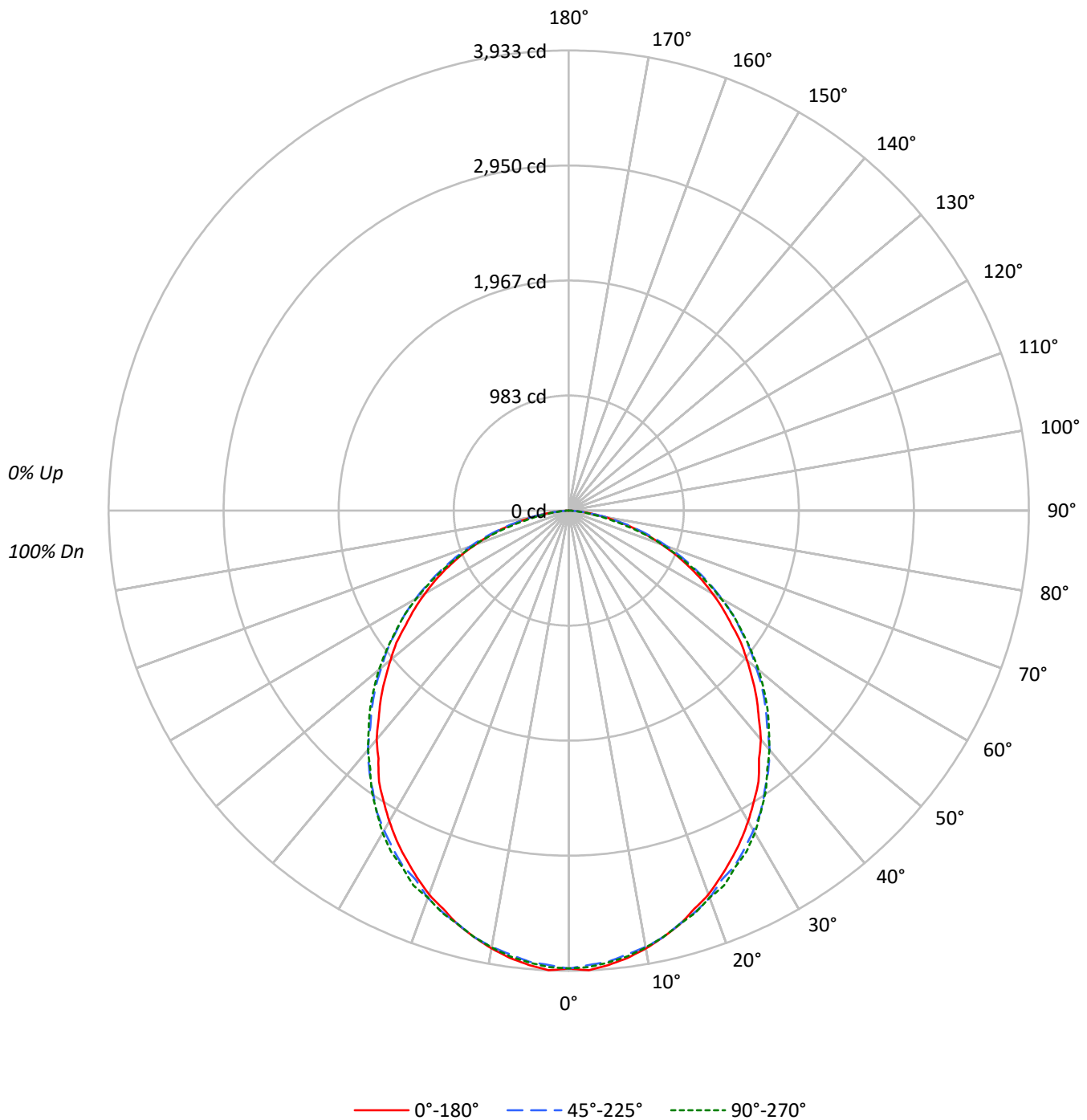
Lumens per Lamp: N/A
Luminaire Lumens: 10052.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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

TEST NUMBER: P485131

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2HI-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P485131

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2HI-40-120-EDD

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°	10531	10531	10531
5°	10531	10456	10473
10°	10384	10349	10360
15°	10205	10193	10199
20°	10000	10086	10080
25°	9765	9955	9987
30°	9528	9807	9886
35°	9293	9595	9637
40°	8975	9380	9373
45°	8648	9055	9145
50°	8322	8752	8868
55°	7971	8442	8493
60°	7635	8142	8084
65°	7235	7643	7493
70°	6666	7021	6700
75°	5895	6141	5362
80°	4742	4809	3747
85°	3106	2973	2180



TEST NUMBER: P485131

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2HI-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	3.7
10°-20°	1034.3	10.3
20°-30°	1539.9	15.3
30°-40°	1812.6	18.0
40°-50°	1817.4	18.1
50°-60°	1593.7	15.9
60°-70°	1165.3	11.6
70°-80°	600.6	6.0
80°-90°	120.5	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°	2942.1	29.3
0°-40°	4754.7	47.3
0°-60°	8165.7	81.2
0°-90°	10052.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10052.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3914	3914	3914	3914	3914	
5°	3898	3873	3871	3896	3877	369
15°	3663	3670	3659	3682	3661	1031
25°	3289	3304	3353	3400	3364	1515
35°	2829	2842	2921	2953	2934	1762
45°	2272	2283	2379	2409	2403	1751
55°	1699	1737	1800	1825	1810	1525
65°	1136	1162	1200	1196	1177	1124
75°	567	571	591	550	516	601
85°	101	98	96	77	71	131
90°	0	0	0	0	0	



TEST NUMBER: P485131

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2HI-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3913.5	3913.5	3913.5	3913.5	3913.5
2.5°	3932.8	3913.5	3887.8	3909.2	3904.9
5°	3898.5	3872.9	3870.7	3896.4	3877.1
7.5°	3855.7	3851.5	3825.8	3853.6	3842.9
10°	3800.1	3795.8	3787.3	3806.5	3791.5
12.5°	3733.8	3729.5	3733.8	3744.5	3733.8
15°	3663.2	3669.6	3658.9	3682.4	3661.0
17.5°	3569.0	3575.4	3596.8	3605.4	3603.3
20°	3492.0	3496.3	3521.9	3556.2	3519.8
22.5°	3391.4	3402.1	3415.0	3477.0	3468.5
25°	3288.7	3303.7	3352.9	3400.0	3363.6
27.5°	3181.7	3196.7	3256.6	3290.9	3286.6
30°	3066.2	3081.2	3156.1	3203.1	3181.7
32.5°	2946.4	2972.0	3053.3	3094.0	3053.3
35°	2828.7	2841.5	2920.7	2952.8	2933.5
37.5°	2672.5	2721.7	2800.9	2822.3	2788.0
40°	2554.8	2556.9	2670.3	2670.3	2668.2
42.5°	2402.9	2437.1	2512.0	2552.7	2531.3
45°	2272.4	2283.1	2379.3	2409.3	2402.9
47.5°	2129.0	2171.8	2242.4	2276.6	2259.5
50°	1987.8	2017.7	2090.5	2135.4	2118.3
52.5°	1857.3	1880.8	1955.7	1981.4	1964.2
55°	1698.9	1737.4	1799.5	1825.2	1810.2
57.5°	1562.0	1589.8	1666.8	1675.4	1666.8
60°	1418.6	1450.7	1512.8	1519.2	1502.1
62.5°	1281.7	1303.1	1358.7	1360.8	1341.6
65°	1136.2	1161.9	1200.4	1196.1	1176.8
67.5°	992.8	1009.9	1046.3	1031.3	1009.9
70°	847.3	862.3	892.3	870.9	851.6
72.5°	706.1	716.8	742.5	710.4	686.8
75°	567.0	571.3	590.6	549.9	515.7
77.5°	430.1	434.4	445.1	404.4	365.9
80°	306.0	306.0	310.3	267.5	241.8
82.5°	192.6	192.6	190.4	158.3	143.4
85°	100.6	98.4	96.3	77.0	70.6
87.5°	36.4	36.4	30.0	27.8	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)