

L I A V e r i f i e d S c h e d u l e o f C e r t i f i c a t i o n



Schedule No. : TSD004-0068 (Issue 1)

Certificate No. : 004-0068

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This Schedule is to be read in conjunction with the accompanying certificate. The data shown relates only to the unit(s) tested. This schedule and any subsequent schedule(s) may not be reproduced except in full without the written approval of the Testing Laboratory.

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1. INTRODUCTION

This Schedule of certification accompanies the certificate identified on page one as part of the LIA Verified scheme for LED products. Assessment is carried out in line with the requirements set out in LIA Laboratory's Technical Scheme Document TSD-004.

2. CERTIFICATION STATUS

Final - The products have passed the safety assessment and have achieved 2000 hours of operation as required by the scheme.

3. SCOPE

The products listed in Table 1, supplied by the certificate holder identified on page one have been assessed and are covered under certificate no. 004-0068.

Table 1. Products covered under scope

Model No.	Product Name
OWL-A12-840-S01	12" Outdoor Wall Light



4. DOCUMENTATION

As part of the assessment process the following documents have been evaluated and form part of the Technical File held by the certificate holder and LIA Laboratory Ltd. It should be noted that in order to maintain certification the certificate holder is required to maintain up to date technical documentation related to all of the products identified in section three of this schedule.

All client documentation held by LIA Laboratory Ltd is maintained as strictly confidential.

Table 2. Critical Documents

Document reference	Title/Description
GBLIA0089	IECEE CB Safety Certificate
CB1021A	Safety Test Report
OWL(ET)-Manual-180509	Installation Guide
PV171 Final Report	Performance Test Report

5. OBSERVATIONS AND LIMITATIONS

When installed in accordance with the manufacturer's instructions, this product is deemed to comply with the specified end use.



APPENDIX A

PRODUCT TECHNICAL SPECIFICATIONS

A.1. 12" Outdoor Wall Light

A.1.1. PRODUCT DETAILS

Table A.1 Product Specifications

Product Name	12" Outdoor Wall Light
Model No.	OWL-A12-840-S01
Product Description	LED Wall Light
Nominal Dimensions	Ø - 335mm; H – 110mm
Product Supply Requirement	220-240V AC, 50/60Hz
Lamp Type and Power	LED, 16W



Figure 1. Product Images

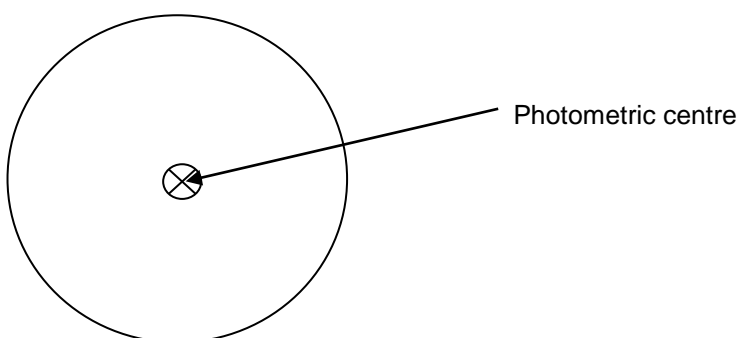


Figure 2. Product diagram

A.1.2. SAFETY EVALUATION

Safety assessment was carried out in accordance with the requirements set in LIA Laboratories' technical scheme document TSD-004, the clauses verified are shown in Table 2 and have been evaluated against IEC 60598-1:2014 and IEC 60598-2-1:1979.

The product has been found to conform to the requirements laid out in the identified clauses.

Table A.2 Safety Test Results

Clause No.	Title
1.4	Classification of luminaires
1.5	Marking
1.6	Construction
1.7	Creepage distances and clearances
1.8	Provision for earthing
1.9	Terminals
1.10	External and internal wiring
1.11	Protection against electric shock
1.12	Endurance tests and thermal tests
1.13.	Resistance to dust and moisture
1.14	Insulation resistance and electric strength
1.15	Resistance to heat, fire and tracking

A.1.3. CENTRE BEAM INTENSITY AND BEAM ANGLE

Table A.3 *Beam Angle value for model OWL-A12-840-S01*

Centre Beam Intensity (cd)	Beam Angle (<i>Lamp orientation</i>)	Beam Angle Result (°)
424	0° - 180°	111.4
	90° - 270°	111.5

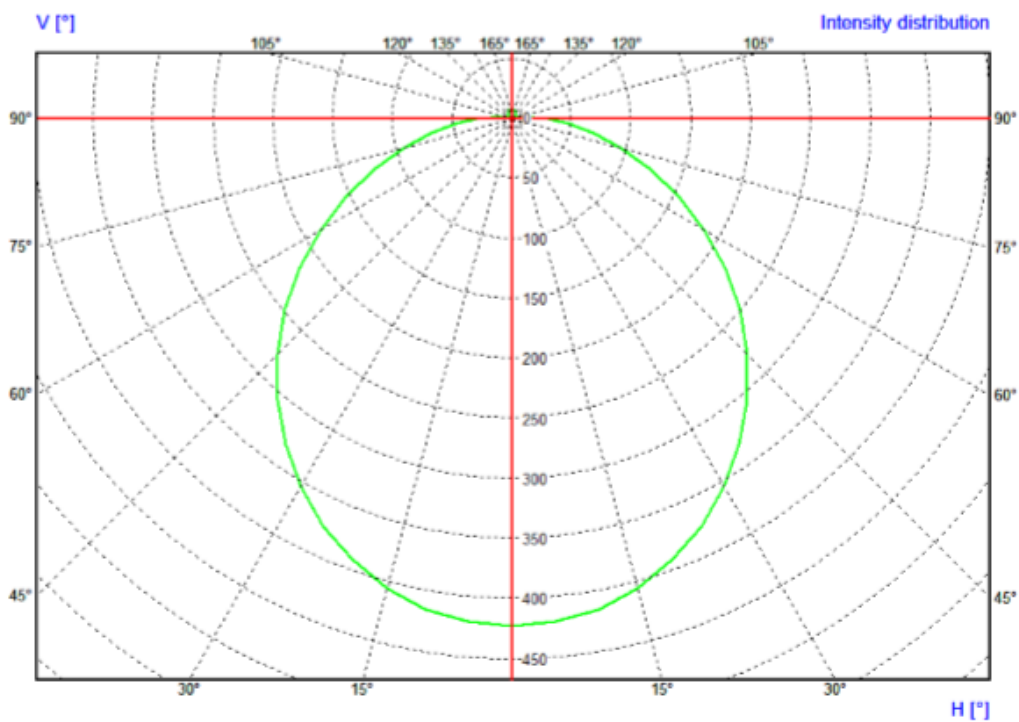


Figure 3. *Polar Diagram for model OWL-A12-840-S01*

A.1.4. COLORIMETRY

Table A.4 Colorimetry values for model OWL-A12-840-S01

COLORIMETRY & LUMINOUS FLUX	x coordinate	0.3729
	y coordinate	0.3722
	u' coordinate	0.2219
	v' coordinate	0.4984
	Correlated Colour Temperature (K)	4181
	Ra (%)	84
	R1 (%)	84
	R2 (%)	93
	R3 (%)	96
	R4 (%)	80
	R5 (%)	82
	R6 (%)	88
	R7 (%)	86
	R8 (%)	67
	R9 (%)	17
	R10 (%)	80
	R11 (%)	79
	R12 (%)	57
R13 (%)	87	
R14 (%)	98	
Lumen Output (lm)	1291	

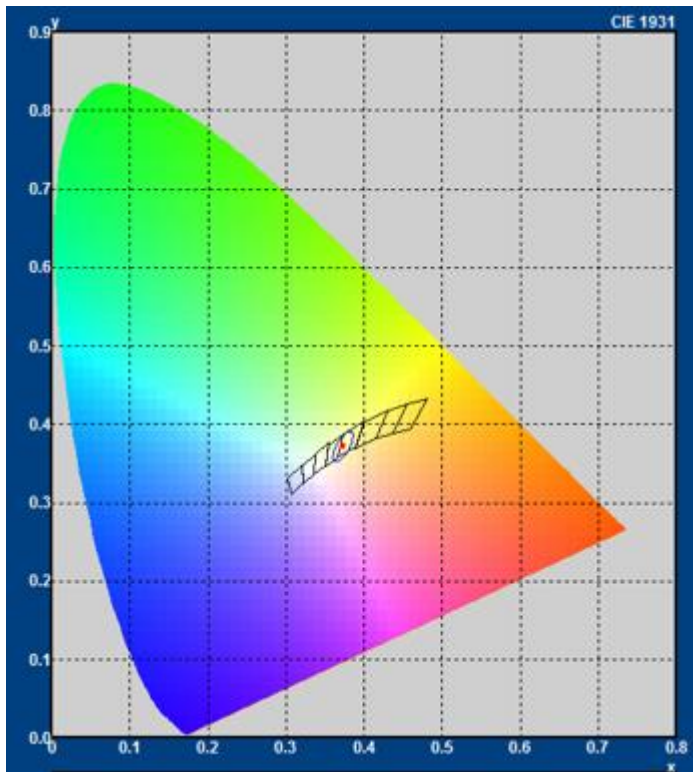


Figure 4. CIE 1931 diagram for model OWL-A12-840-S01

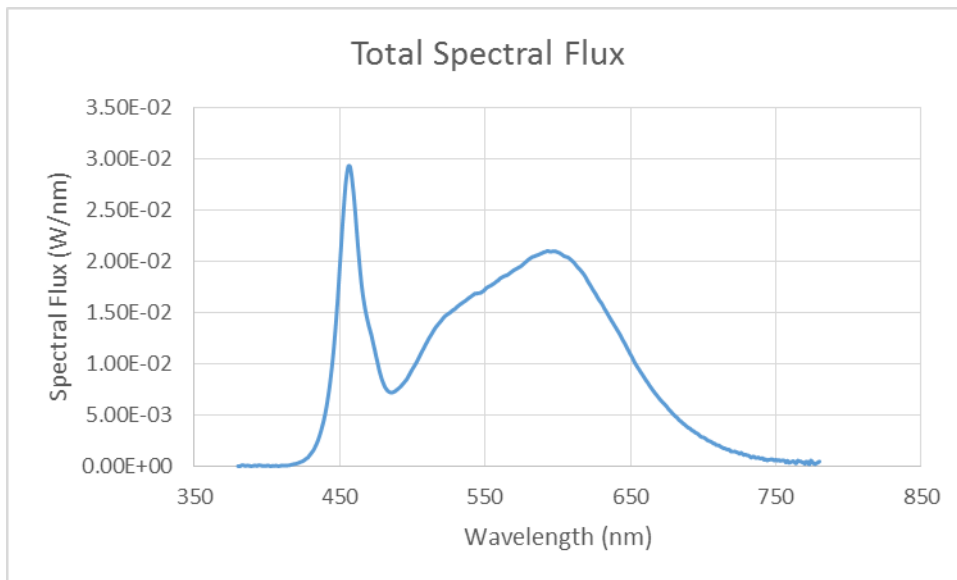


Figure 5. Spectral Flux for model OWL-A12-840-S01

A.1.5. LIFE TEST

Table A.5 Colorimetry depreciation of OWL-A12-840-S01

Measured Value	0 hours	100 hours	% Maintained (0-100hrs)	2000 hours	% Maintained (0-2000hrs)
Correlated Colour Temperature (K)	4181	4234	101.3	4248	101.6
Ra (%)	84	85	101.2	85	101.2
Luminous Flux (lm)	1291	1292	100.1	1314	101.8
Luminous Efficacy (lm/W)	110.7	112.3	101.5	114.6	103.5

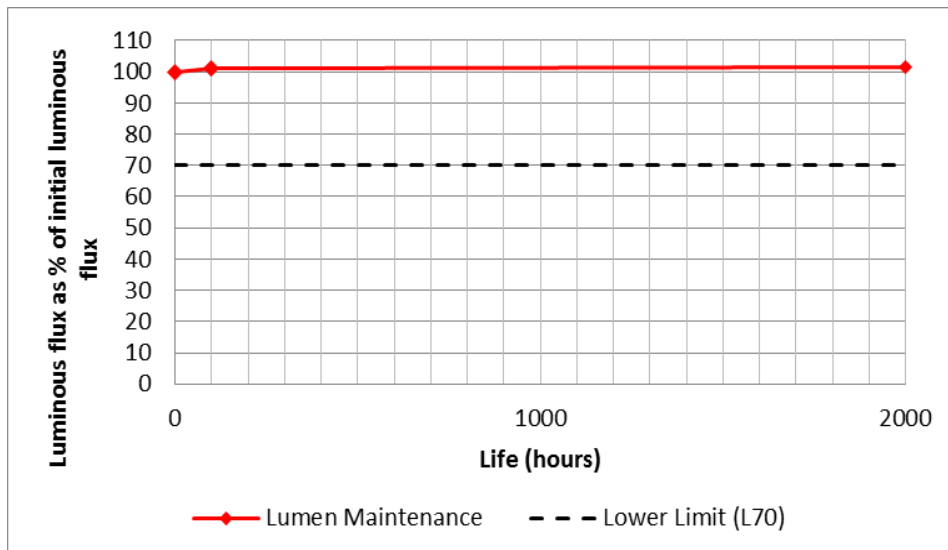


Figure 6. Luminous flux depreciation curve for OWL-A12-840-S01

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