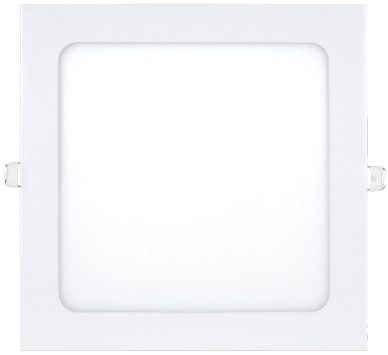
DATA SHEET

441200NW

RECESSED SQUARE LED DOWNLIGHT 12W 4500K WHITE



PRODUCT DATES

Item code:	441200NW
Description:	Recessed square LED downlight
EAN13 code:	8436568448015

ELECTRICAL DATA

Power:	12w
Voltage:	85/265vac
Frequency:	50/60Hz
Surge protection:	2 kv
Power factor:	0,5
Dimable:	NO
Electrical insulation class:	CLASS II
Connection:	L/N

LIGHTING DATA

Color temperature:	4500K
Lighting efficiency:	98 lm/w
Lumens:	1176lm
Brand LED chip:	San'an
LED chip model:	SMD2835
Bean angle:	180°
Light distribution:	Symmetrical
Colour rendering index:	>80
Standard chromatic deviation:	<6
Luminous maintenance factor:	L95B10
Flicker index:	≤1,0
Strobe effect visibility measurement:	≤0,4

TECHNICAL DATA

Degree of protection:	**IP44 (Equipment protected against objects larger than 1 mm and splashing water)**
Degree of impact:	**IK06 (1J)**
Operating temperature:	**-20°~50°**
Mounting type:	**Recessed mounting**

LIFE TIME

Working hours:	**40000 hrs**
Switch cycles:	**35000 ON/OFF**

PHYSICAL DATA

Housing

Material:	**Aluminium**
Finish:	**White**

Diffuser

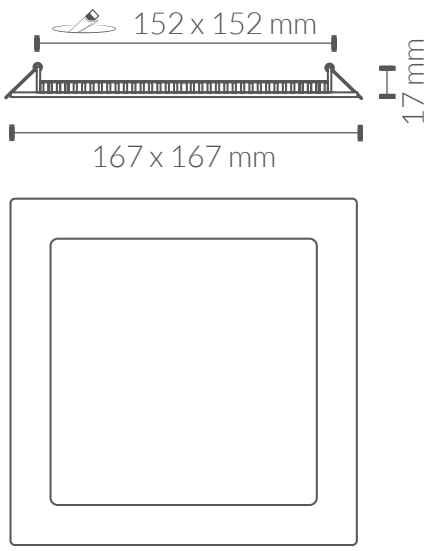
Material:	**Polycarbonate**
Finish:	**Opal**

Weight

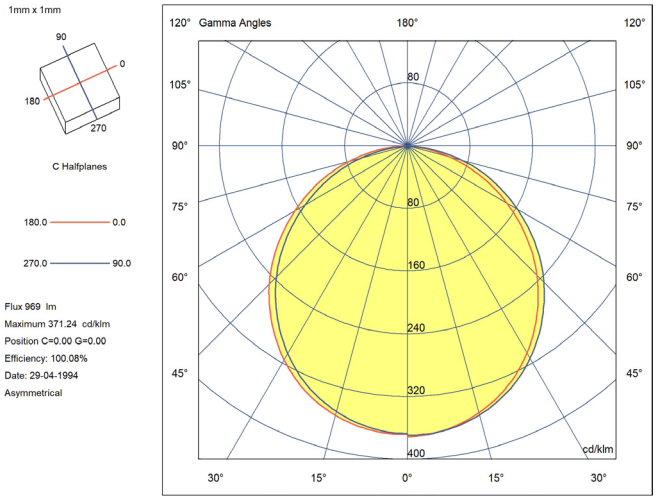
Weight:	**0,27 kg**

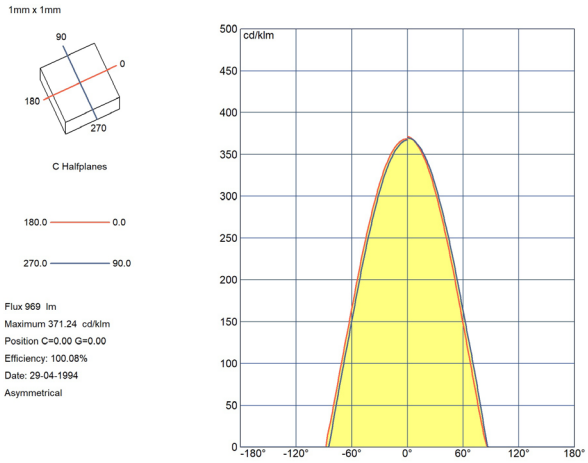
ENERGY EFFICIENCY 2023 (EU-2019/2015) F

MEASURES



LIGHT INTENSITY DISTRIBUTION CURVE





CERTIFICATIONS

CE & ROHS

EMC Directive 2014/30/EU ELECTROMAGNETIC COMPATIBILITY

EN IEC 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.
EN IEC 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current =16 A per phase).
EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection.
EN 61547:	Equipment for general lighting purposes - EMC immunity requirements.

LVD Directive 2014/35/EU LOW VOLTAGE

EN IEC 60598-1	Luminaires - Part 1: General requirements and tests.
EN IEC 60598-2-1	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires

RoHS Directive 2011/65/EU and Delegated Directive (EU) 2015/863
Determination of certain substances in electrotechnical products.

IEC 62321-1	**IEC 62321-3-1**
IEC 62321-4	**IEC 62321-5**
IEC 62321-6	**IEC 62321-7-1**
IEC62321-7-2	**IEC 62321-8**

CE RoHS