

Square Inlay Backlit LED Panel Light

This slim panel light features a DOB driver solution and a slim design. Compared to sidelit panel lights, this backlit panel light offers enhanced brightness and an efficacy of 100 lumens per watt.



Product Overview

High-Efficiency DOB Slim Panel Light

The RPL7 series is a slim-design backlit LED panel light utilizing a DOB (Driver on Board) solution for enhanced reliability and performance. It offers a high luminous efficacy of 100 lm/w, making it a superior and more energy-efficient replacement for traditional sidelit aluminum panel lights. Designed for inlay mounting, this square panel provides uniform illumination suitable for a variety of professional and commercial environments.

Key Performance

Performance Highlights

100 lm/w

Luminous Efficacy

1663.76 lm

Luminous Flux

80 Ra

Color Rendering Index

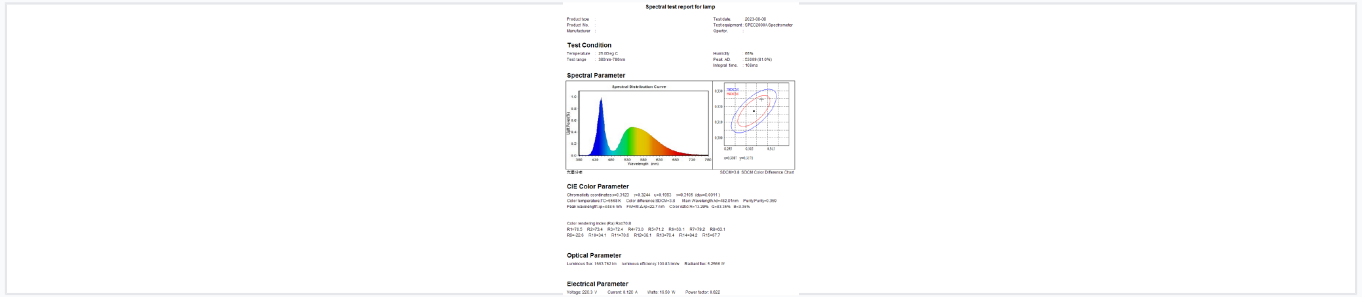
Technical Specifications

Mounting Type

Inlay Mounting

Available Power Ratings	5W, 7W, 9W, 12W, 18W, 24W, 36W
Input Voltage	100-265V
Shape	Square

Optical Parameters



Detailed spectral analysis showing luminous efficiency of 100.83 lm/w and color temperature data.

Spectral Characteristics

- Peak Wavelength: 448.6 nm
- FWHM: 22.7 nm
- Chromaticity Coordinates: x=0.3123, y=0.3244
- Color Difference (SDCM): 3.8

Color Temperature

6568 K

Electrical Data

Measured Electrical Parameters

Parameter	Value
Test Voltage	220.3 V
Current	0.120 A
Power Factor	0.622
Actual Wattage	16.50 W

Design Features

Design Advantages

- DOB (Driver on Board) solution
- Ultra-slim profile
- Backlit technology for higher brightness
- Uniform light distribution