

## OSRAM S3030 Quantum Dot Linear Modules

Power of OSRAM in standard and custom LED modules

## Data Sheet

Version 1.0

### Lean & Fast. Made Smarter.

**High CRI efficacy** - 178 lumens per watt at 90 CRI with the ability to achieve DLC certification

**Flexible design** - 22" length that can be seamlessly connected end-to-end

**Color accurate** - great color quality with  $R_f > 90$ ,  $R_g > 100$  and excellent color over angle uniformity

**Easy to integrate** - designed to Zhaga dimensions and screw hole specifications

**Quick production** - push terminals for quick and simple wiring

### Primary Applications



Indoor lighting

-Office

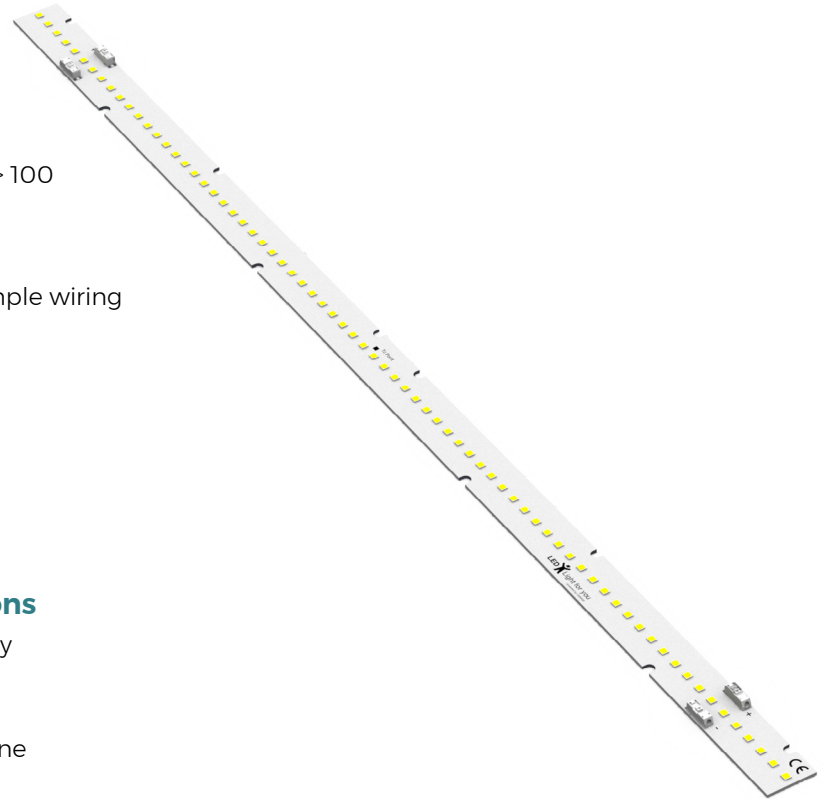
-Education

-Retail



-Hospitality

-Transportation



### Superior Performance With Flexible Options

- Industry leading 90 CRI combined with high efficacy
- Private label or custom designs
- Adhesive tape can be added for rapid installation
- Pair with a standard driver for a complete light engine

### Simplify Your Next Lighting Design

Introducing NewEnergy OSRAM linear LED modules for indoor office, education and retail area lighting fixtures. The modules come in a 22" configuration that is ideal for panel or linear lights. They are also flexible enough to support a range of specialty indoor applications. Designed to Zhaga standards, NewEnergy' modules are easy to integrate into existing designs and can be quickly upgraded as LED performance improves.

### Custom Solutions

NewEnergy operates facilities globally with ISO certifications for the LED lighting, automotive and medical industries. Our North Carolina based office provides quick engineering & sales support with an R&D lab for prototype development and custom solutions. Our in-house global manufacturing capabilities allow for both building in the United States as well as overseas at scale.

### About NewEnergy

NewEnergy accelerates the adoption of LED technology through simple, modular products and custom designs. Through 30 years of experience, state of the art manufacturing, full traceability and advanced quality controls, NewEnergy offers leading solid state lighting components, modules and custom solutions. NewEnergy customers get to market faster, with less resources, at lower costs. Visit [New-EnergyLLC.com](http://New-EnergyLLC.com) for more information.

RoHS 

# Linear LED Modules from NewEnergy

## Order Code Formatting

| Series                                  | LED Count    | LED Code                | Color Temperature | Color Rendering Index | Internal Code |
|---|--------------|-------------------------|-------------------|-----------------------|---------------|
| SSB1 - Standard Linear LED PCB Assembly | 72 - 72 LEDs | F16 - Osconiq S3030 LED | 27 - 2700K        | 90 - 90 CRI           | XX            |
|   |              |                         | 30 - 3000K        |                       |               |
|   |              |                         | 35 - 3500K        |                       |               |
|   |              |                         | 40 - 4000K        |                       |               |

## Electrical Characteristics

| Part Number  | Forward Voltage (v) |         | Typical LED Thermal Resistance Junction to Solder Point (K/W) RTh J-HS |
|--------------|---------------------|---------|--|
|              | Typical             | Maximum |  |
| SSB1-72F16-x | 33.0                | 35.4    | 8.4  |

Intended for connection to a class 2 power source with a maximum operating voltage of 50 Vdc

## Maximum Ratings

| Part Number  | DC Current (A) | Tsp Temp (°C) | Power (W) |
|--------------|----------------|---------------|-----------|
| SSB1-72F16-x | 1.08           | 105           | 38.2      |

## Board Material Properties

| Property         | Value | Unit |
|------------------|-------|------|
| Thickness        | .059  | in   |
| Construction     | FR4   | -    |
| Temperature      | 130   | °C   |
| Flame Rating     | V-0   | -    |
| Copper Thickness | 1     | oz   |

# Linear LED Modules from NewEnergy

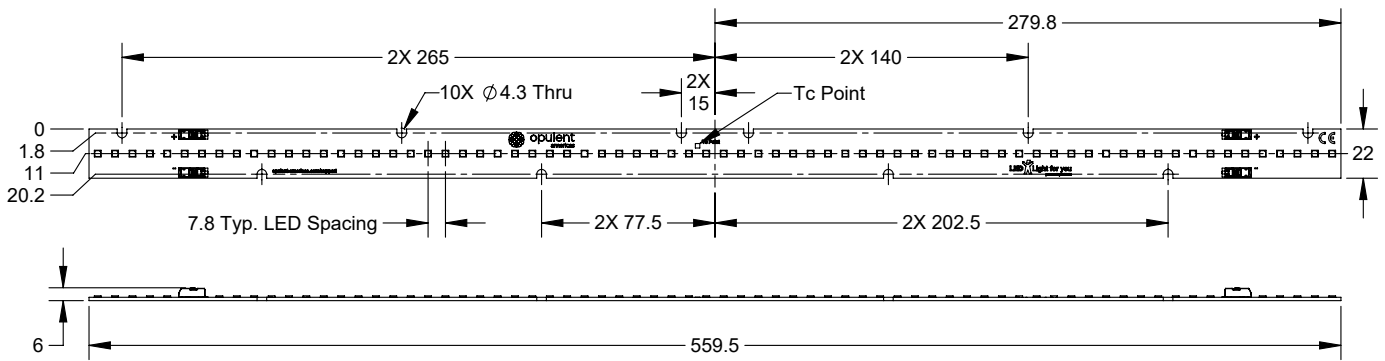
## Product Selection Table - 22" Linear Module

| Part Number        | CCT   | CRI | Luminous Flux (lm) |                     | Watts (W)  |            |
|--------------------|-------|-----|--------------------|---------------------|------------|------------|
|                    |       |     | Typ. 390mA         | Typ Efficacy (lm/W) | Typ. 390mA | Max 1080mA |
| SSBI-72FI6-2790-00 | 2700K | 90  | 2196               | 170.6               | 12.9       | 38.2       |
| SSBI-72FI6-3090-00 | 3000K | 90  | 2268               | 176.2               | 12.9       | 38.2       |
| SSBI-72FI6-3590-00 | 3500K | 90  | 2290               | 177.9               | 12.9       | 38.2       |
| SSBI-72FI6-4090-00 | 4000K | 90  | 2304               | 179.0               | 12.9       | 38.2       |

<sup>(1)</sup> NewEnergy may ship modules in flux bins higher than the values specified by the order code without advance notice. Shipments will always adhere to the chromaticity bin restrictions specified by the order code.

<sup>(2)</sup> Luminous Flux Values @ Tj = 65°C

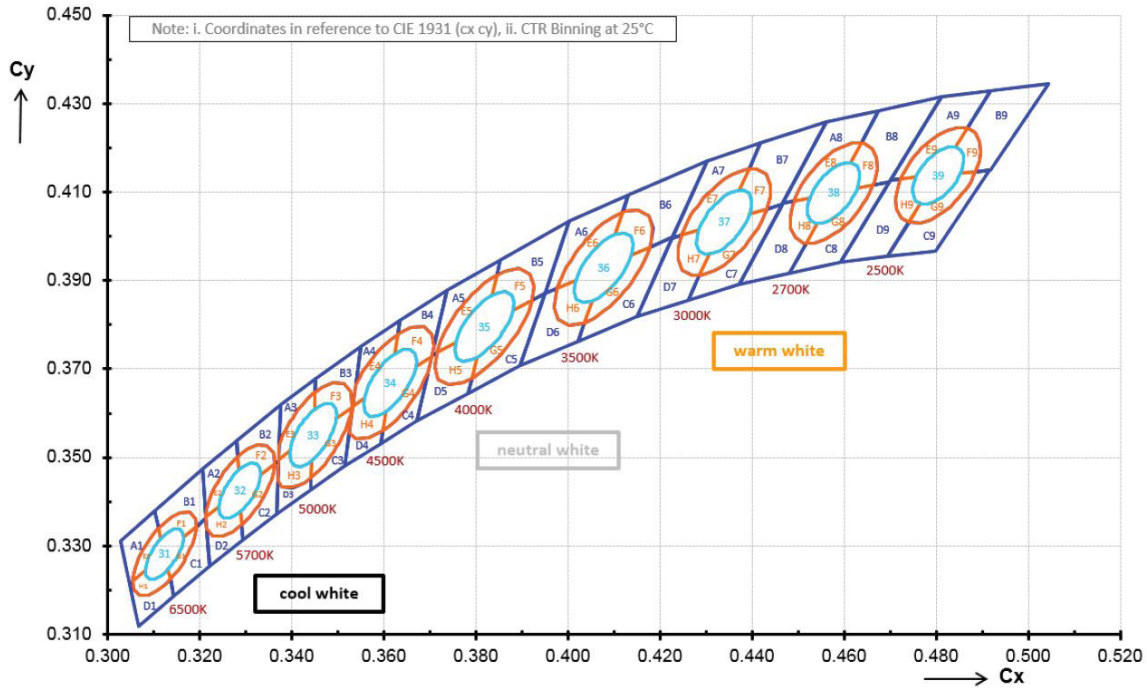
## Mechanical Dimensions



1. Four Poke-In Connectors accept 18-24 AWG solid or stranded wire
2. Recommended Mounting Hardware: 10x M3-5 Socket Head Cap Screws

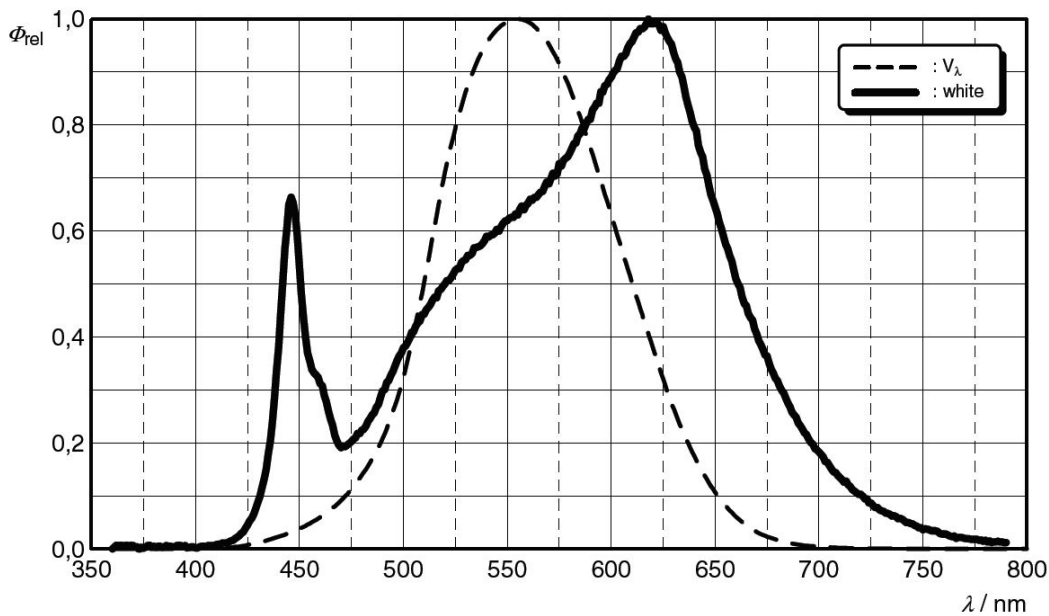
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## Standard White Chromaticity Regions



## Relative Spectral Emission

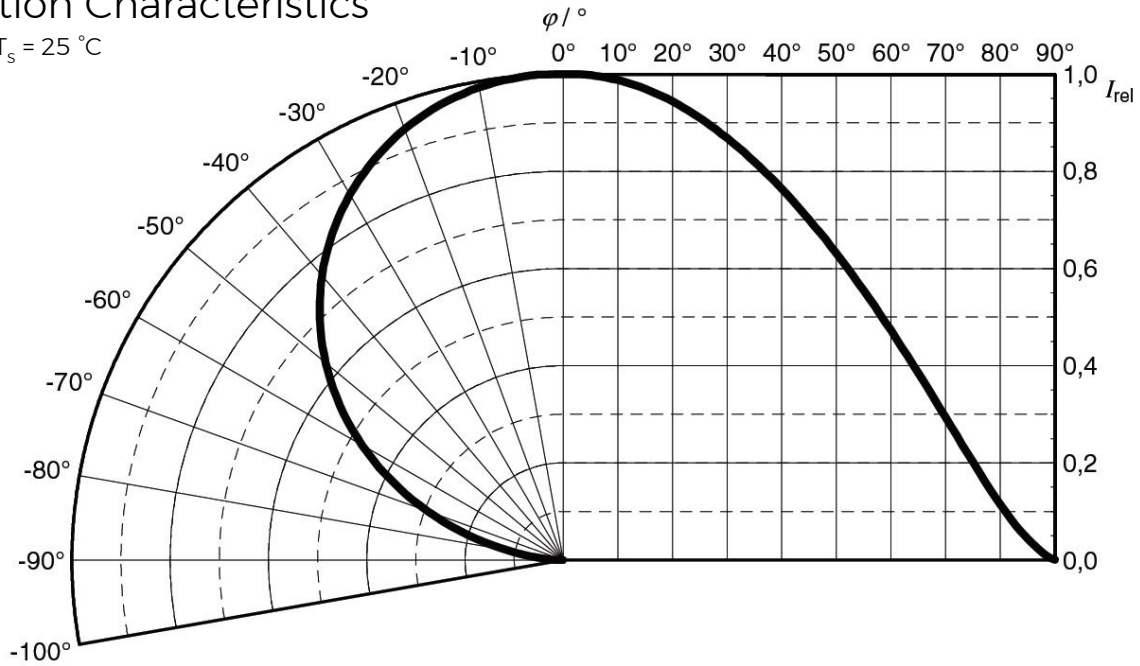
$$\phi_{rel} = f(\lambda); T_s = 25^\circ\text{C}; I_F = 390\text{ mA}$$



# Linear LED Modules from NewEnergy

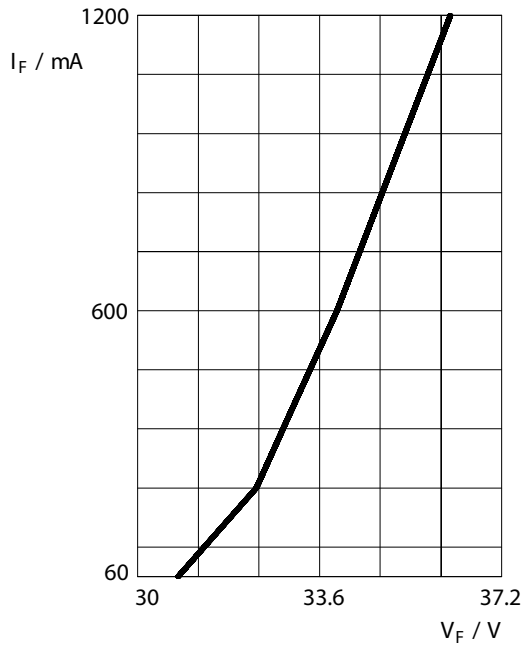
## Radiation Characteristics

$I_{rel} = f(\Phi); T_s = 25\text{ }^\circ\text{C}$



## Forward Current

$I_F = f(V_F); T_s = 25\text{ }^\circ\text{C}$



## Relative Luminous Flux

$\Phi_V / \Phi_V(390\text{ mA}) = f(I_F); T_s = 25\text{ }^\circ\text{C}$

