



# LED Light Engine, 10.2" Fingerboard Module

Constant-Current DC Array, 8 LED Series x 8 Parallel Strings  
 Engineered by Norlux  
 64 Nichia LEDs  
 5 yr. Warranty

## Specifications

<b>Driver Type:</b>	<b>Constant-Current</b>
Drive Current:	700mA Nominal
Nom. Forward Voltages:	22.5V
Total Board Power:	16.7W Nominal
Life:	50,000 Hrs @70% lumen maint., if used as specified (current & heat)
Max Junction Temp:	90°C
Max Test Point Temp:	80°C
Operating Temp:	-40°C to +60°C Ambient
Storage Temp:	-40°C to +80°C
Viewing Angle (FWHM):	120° Lambertian distribution
CRI:	83 typical

- Designed for easy use in standard luminaires
- Tight LED pitch eliminates pixelization
- Color: ¼ ANSI Binning, 3 Step MacAdam Ellipse
- Suggested Applications: Surface-mount, Recessed or Suspended lighting



### 10.2 Inch Fingerboard DC LED Module @ 350mA

Model Number	Total Board Power (W)	Total Current (mA)	Color Temp (K)	Lumens (± 15%)	Board LPW
98006	7.9	350	3000	1,134	144
98007	7.9	350	3500	1,190	151
98008	7.9	350	4000	1,221	155

### 10.2 Inch Fingerboard DC LED Module @ 700mA

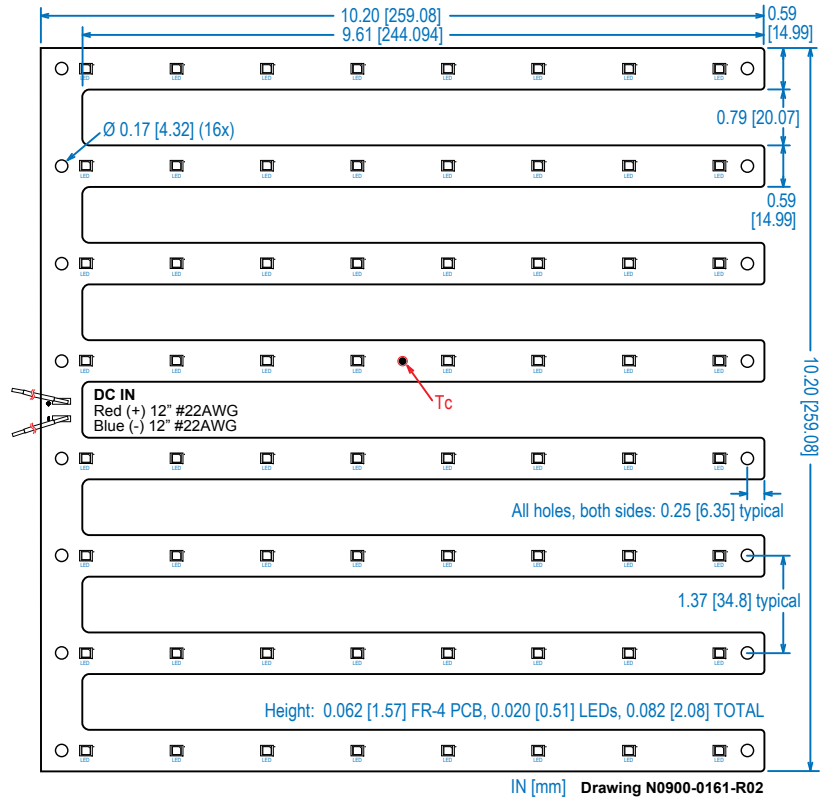
Model Number	Total Board Power (W)	Total Current (mA)	Color Temp (K)	Lumens (± 15%)	Board LPW
98006	16.7	700	3000	2,180	131
98007	16.7	700	3500	2,215	137
98008	16.7	700	4000	2,353	141

### Connectivity Options

Suffix	Connection
(blank)	12 IN, #22 AWG Stranded Leads
-01	No Leads
-02	Push-in Connectors

For Poke-In Connectors, use #24-18 AWG stranded or solid wire

## Dimensions:



★MADE IN USA★  
 Of Imported And Domestic Components

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Rev 8-20-14



# 10.2" Fingerboard Std. DC LED Light Engine Module

SSL Solutions Faster Than The Speed Of Light®

## CIE Chromaticity Coordinates:

### 3000K

3 Step Macadams Ellipse

X	Y
0.4325	0.4101
0.4452	0.4146
0.4244	0.3923
0.4362	0.3965

### 3500K

3 Step Macadams Ellipse

X	Y
0.4045	0.3975
0.4189	0.4044
0.3989	0.3819
0.412	0.3875

### 4000K

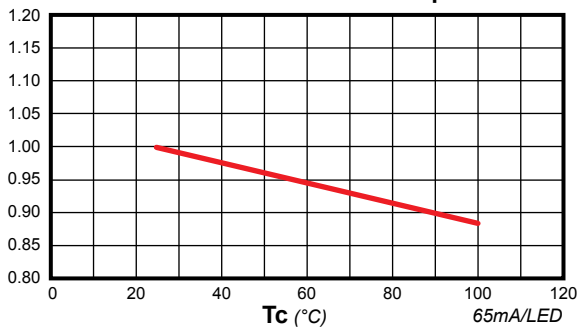
3 Step Macadams Ellipse

X	Y
0.3783	0.3836
0.3909	0.3906
0.3746	0.3687
0.3864	0.3757

## Suggested TRP Drivers:

- LED12W-36-C0350
- LED17W-036-C0470
- LED17W-024-C0700
- LED20W-057-C0350
- LED20W-057-C0350-D
- LED20W-43-C0460
- LED20W-43-C0460-D
- LED20W-40-C0500
- LED20W-40-C0500-D
- LED20W-36-C0550
- LED20W-36-C0550-D
- LED20W-28-C0700
- LED20W-28-C0700-D
- LED20W-40-C0350-LE
- LED20W-40-C0350-TE
- LED20W-40-C0500-LE
- LED20W-40-C0500-TE
- LDC25W-072-C0350
- LDC25W-048-C0450
- LED25W-028-C0350
- LED25W-028-C0350
- LED25W-062-C0400
- LED25W-062-C0400-D
- LED25W-056-C0450
- LED25W-056-C0450-D
- LED25W-040-C0450
- LED25W-040-C0450-D
- LED25W-040-C0620
- LED25W-040-C0620-D
- LED25W-48-C052-LE
- LED25W-48-C052-TE
- LED25W-36-C0700-HL-SD
- LED25W-36-C0700-LE
- LED25W-36-C0700-TE
- LED30W-066-C0450
- LED30W-066-C0450-D
- LED30W-42-C0700
- LED30W-42-C0700-D
- LED35W-054-C0700
- LED35W-054-C0700-D
- LED40W-054-C0700
- LED40W-054-C0700-D
- LED50W-72-C0700
- LED50W-72-C0700-D

Relative Luminous Flux / Tc Temperature



## Step Dimming:

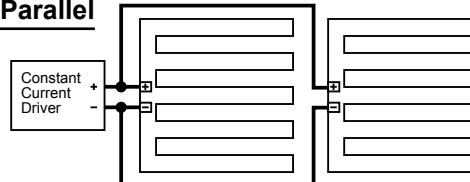
This Light Engine can be step-dimmed, with a recommended TRP dimmable driver and SD series step-dimming module. See the SD2 or SD3 data sheet for wiring information.

## Series/Parallel Configurations

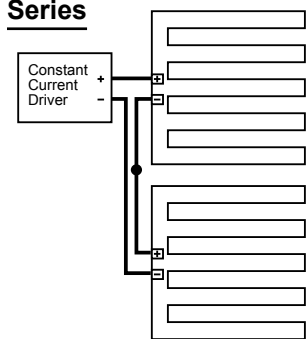
**Parallel:** The positive and negative of one board is connected to the respective positive and negative of the next. Current adds, so the supply must be 2x the current for 2 boards.

**Series:** The negative of one board is connected to the positive of the next. Voltage adds, so the supply must be 2x the voltage for 2 boards.

### Parallel



### Series



## Maximum Run Lengths

The max number of boards wired in a chain (**series**) is limited by the max current rating of the first board wired to the driver. The sum of the board currents, in the chain, funnels through the first board. Multiple chains can connect directly to the power supply in parallel. See table for max chain length.

Product	Series/Parallel	Max Allowable Boards	
		High Current (Nom)	Low Current
Fingerboard	Series	4	9

## Thermal Application Notes

This board may require additional heat sinking to run above 70°C ambient. Heat sink is also required when operated above specified drive currents.

## Mounting Notes

The LED assembly is supplied with mounting holes, per the dimensional drawing. It is important to mount the board in such a way as to maintain the Tc point below the max. The steady state thermals in application will dictate if the board needs to be mounted directly to metallic housing and/or include a thermal pad. For example fully enclosed recessed fixture will require better thermal mounting than an open air pendant.

## Static Sensitive Device

Handle only at static-safe work stations.

## Packaging

50 per box standard.