

Ordering Information

Item Number	Original Item Number	Ordering Abbreviation	Input Voltage (V)	Operating Current		Wattage		Nom. Lumens (lm)	Nom LPW	CCT	CRI	Dim (in)	Case Qty
				Nom. (mA)	Max (mA)	Nom. (W)	Max. (W)						
*27459N	59735	PLPG5 Lin 1400L 830 560X20 J100	38.9	203	375	7.9	15.7	1327	168	3000K	80	22.0 x 0.8	100
*27459P	59736	PLPG5 Lin 1400L 835 560X20 J100	38.9	203	375	7.9	15.7	1327	168	3500K	80	22.0 x 0.8	100
*27459R	59737	PLPG5 Lin 1400L 840 560X20 J100	38.9	203	375	7.9	15.7	1400	177	4000K	80	22.0 x 0.8	100
*27459S	59738	PLPG5 Lin 1400L 850 560X20 J100	38.9	203	375	7.9	15.7	1400	177	5000K	80	22.0 x 0.8	100
*27459T	59953	PLPG5 Lin 1400L 865 560X20 J100	38.9	203	375	7.9	15.7	1400	177	6500K	80	22.0 x 0.8	100

Notes:

1. All data is related to the entire module. Data reflects statistical mean values. Actual data may differ depending on variances in the manufacturing process.
2. Performance values were taken at steady state. Instant-on measurements may be higher.
3. Recommended for indoor use.
4. Tolerance for flux data is $\pm 7\%$.
5. Nominal rating at board Tc of 35°C ($\pm 5^\circ\text{C}$).
6. Color consistency of 3 SDCM, averaged over the module.
7. \diamond - Product being discontinued once inventory depleted.
8. \blacksquare - New generation available.

Certifications

The PrevaLED® by eldoLED Family is UL8750 Recognized for US and Canada Class 2 Units (UL File# E320662).



Ordering Guide

Family/Series	Type	Generations	Shape	Lumens	CRI	Color Temperature	Size
PL = PrevaLED®	P = Performance	G5	Liner, Bar, or Area	1400	8 = >80	30 = 3000K	560x20 mm

UL Information

Product Name - UL Description	Items Numbers
LE/1570/0075/0559/0020	*27459N (59735); *27459P (59736); *27459R (59737); *27459S (59738); *27459T (59953)

Minimum and Maximum Ratings

Parameter	Values
Operating Temperature at Tc Point	-20°C to 85°C
Storage Temperature Range	-40°C to 100°C

Notes:

1. Exceeding maximum ratings may damage the LED light engine and cause potential safety hazards.
2. Elevated operating temperatures can be expected to negatively impact the service life in terms of lumen output.
3. Incorrect wiring may damage the LED light engine.

Mounting and Board Connections

Mounting Type	Wire Gauge	Strip Length
M4 (4mm), pre-drilled screws with a head size of 8mm	18 - 24 AWG solid core wire	8.0 - 9.0 mm

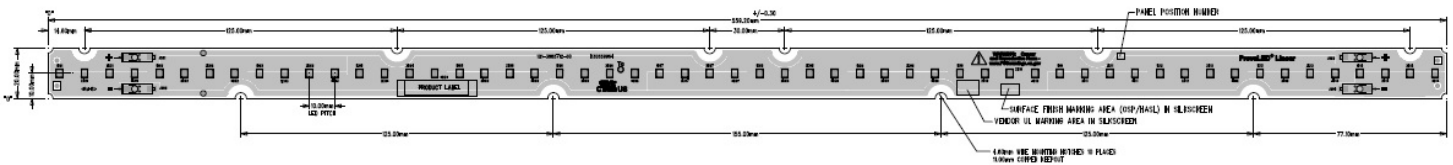
Notes:

1. If mounting with screws, fixture manufacture should perform their own tests to determine the suitable torque range, due to the variation of sheet materials and thicknesses.
2. Use direct push-in of solid conductors.
3. Wires can be released by twisting and pulling the wire simultaneously.

Power Supply Information

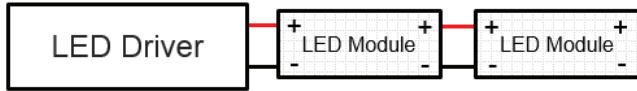
PrevaLED® LED modules are optimized for use with OPTOTRONIC® single channel constant current LED Drivers. For more information about the models please refer to www.eldoLED.com.

Assembly Diagram

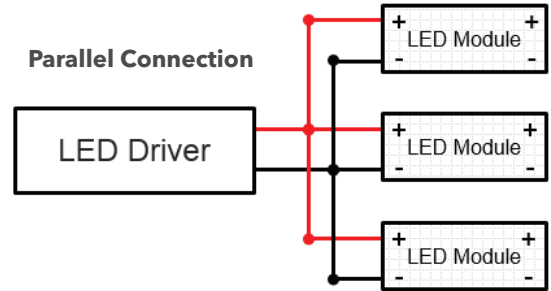


Wiring Diagram

Parallel Daisy Chain Connection



Parallel Connection

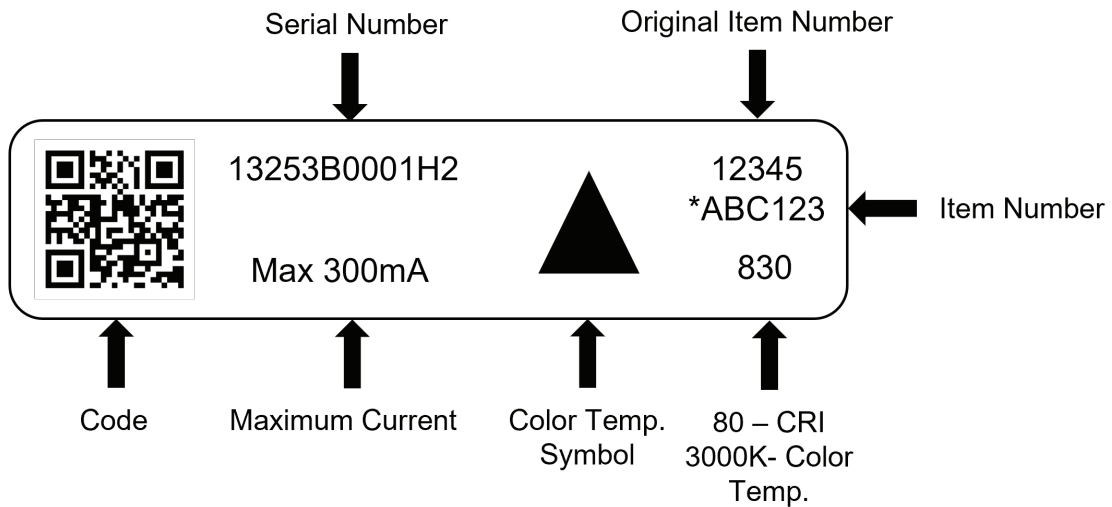


Notes:

1. Always ensure the load is within the power supply rating for current, voltage and wattage.
2. Connecting boards in series may exceed Class 2 limits.
3. The boards are UL Class 2 rated.
4. The number of boards that can be connected in parallel depends on power supply output specification.
5. The maximum number of boards that can be Daisy Chained (Parallel Daisy Chain Connection) vary based on design.

Product Labeling and Traceability

Based on the spacing available, the labels may be placed on the bottom side.



Color Temperature Symbols							
2700K	3000K	3250K	3500K	4000K	5000K	5700K	6500K
●	▲	⊕	■	★	✕	◆	↑

Safety Information

WARNING: ONLY QUALIFIED PERSONNEL SHOULD PERFORM INSTALLATION. TO AVOID ELECTRICAL SHOCK OR COMPONENT DAMAGE, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OF THE POWER SUPPLIES AND/OR MODULES.

Failure to install the power supplies and/or LED modules in accordance with the National Electric Code (NEC), all applicable Federal, State and local electric codes as well as the specific Underwriter's Laboratories (UL) safety standards for the installation, location and application may cause serious personal injury, death, property damage and/or product malfunction.

1. The LED module itself and all its components may not be mechanically stressed.
 2. The LED module needs to be mounted on a heat sink providing adequate thermal dissipation.
 3. Do not damage or destroy conducting paths on the circuit board.
 4. The LED module are Class 2 rated, DO NOT apply direct line voltage.
 5. The LED module cannot be operated safely when the housing is mechanically damaged.
 6. For optimal cooling a thermal interface material should be applied between LED module and heat sink.
 7. The LED module should be mounted to a heat sink with screws or suitable accessories. Maximum tightening torque for mounting screws needs to be observed as excessive force may damage the housing.
 8. Installation of LED module needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installation.
 9. Parallel connection of the LED modules is forbidden.
 10. Damage by corrosion will not be honored as materials defect claim.
 11. It is the user's responsibility to provide suitable protection against corrosive agents, such as moisture, condensation and other harmful elements. The module is intended for use in dry and damp locations only.
 12. Pay attention not to exceed the maximum operation temperature of 85°C at the Tc point when the modules are used in an enclosed environment.
 13. The design of the housing/luminaire should be according to the IP standards applicable for the intended application.
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Assembly Information

1. The modules need no supplemental heat sinking when the temperature at the Tc Point is maintained at or below 85°C. Service life when the Tc temperature is maintained is 60,000 hours/L70. When the environment is unknown, the modules should be installed in luminaires designed to provide proper thermal management to avoid premature failure of the product and to obtain expected service life. Service life (i.e. lumendepreciation) is primarily a function of LED temperature, which is to be monitored on the circuit board at the designated "Tc Point."
 2. Due to variations in fixture designs, there is no exact installation prescription for obtaining an appropriate Tc Point temperature. In general, the modules should be adhered to a flat metal surface which has enough surface area to transfer the heat from the LEDs to the surrounding air. In some cases, the metal surface can be part of the mass of the fixture itself.
 3. It is important to understand that once heat is transferred to a "heat sink" that heat must still be allowed to escape the "system." A heat sink transferring the thermal energy to the inside of an enclosed cavity may ultimately be of little use.
 4. Tc Point temperature measurements should be taken with the modules operating at thermal equilibrium in potential fixture designs installed in an appropriate environment. Tc Point temperature can be measured with a standard thermocouple in direct contact with the circuit board at the Tc Point or with ML4C Series non-reversible OMEGALABELS (www.omega.com) or equivalent.
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Warranty

PrevaLED® LED modules are covered by a 3 years warranty or 5 years system warranty (if LED Modules are used in conjunction with eldoLED LED Drivers as a system). Complete warranty terms can be found at: <https://www.eldoled.com/legal/terms-and-conditions>

eldoLED

One Lithonia Way
Conyers, GA 30012
United States

+1 877 353 6533

nasupport@eldoLED.com

www.eldoLED.com

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Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.