



**Energy Efficient, High Quality,
LED Lighting Products**

SERIES RIA150

CUSTOM DESIGNED LED ILLUMINATION ASSEMBLIES with Nichia Series 157® Power LEDs

Prolume Series RIA Custom Designed LED Illumination Assemblies are built around the proven platform of the standard Series LIA arrays with the additional enhancement of Nichia® Power LEDs. Key features include...

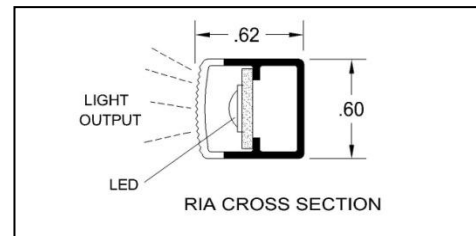
- **Nichia Series 157® Power LEDs**
Nominally rated 150mA LEDs provide increased light output in a full range of ANSI binned white color temperatures with specified CRI. Color LEDs in Red, Blue, Amber and Green are also available. 50,000 hours life to L70 performance.
- **Basic Design**
Printed wiring boards with surface mounted **LEDs on 2" centers** and electronics form the basic illumination assembly, which is housed in a sealed, clear, flexible, polycarbonate co-extrusion of application specific continuous lengths of up to 15 feet. Extrusion is UV stabilized with a 94V-2 flammability rating. Frosted extrusions available (specify - F).
- **Mounting**
Options include VHB tape, stainless steel mounting and channel clips and articulating brackets. Custom metal brackets and channels can be tailored to specific application requirements.
- **Light Distribution**
Available with 120° beam spread for maximum light distribution. Ribbing on the extrusion enhances uniformity.
- **Circuit and Thermal Management**
Uniquely designed printed wiring boards with proprietary electronic sensing and control components optimize LED performance and provide critical thermal management.
Dimmable. (Specify)



- **Electrical**
Assemblies are nominally rated at 24VDC. They are designed for installation using Class 2 wiring methods. A full range of LED drivers are available. See separate catalog sheet.
- **Power**
 - White LEDs – 3.5 Watts per foot
 - Color LEDs – Consult Factory
- **Agency**
Assemblies are UL Listed for both indoor and wet location use. Rated for **outdoor** use.



CO-EXTRUSION DETAIL



Fixture Schedule

Type	Model Number

Job:

Remarks:



HIGHLY INNOVATIVE • TECHNOLOGY BASED • QUALITY LIGHTING PRODUCTS

525 Fan Hill Road • Monroe • Connecticut 06468
Phone (800) EXIT-LED • FAX (203)268-7855
www.prolumeLED.com
email: info@prolumeled.com

TECHNICAL / ORDERING INFORMATION

LED SELECTOR / ANSI BINNED					WIRING OPTIONS		
COLOR	CCT Nominal	CRI Typical	Order suffix	Lumens / FT Typical @ 150mA	Order Suffix	Type / Description	
Warm White	2700°K	85	W827	225	20D	20 gauge bonded / for dimming	
Warm White	3000°K	85	W830	242	TD	20/3 tray cable / for dimming	
Neutral White	3500°K	85	N835	245	PGD	Plug-Go connectors / for dimming	
Neutral White	4000°K	85	N840	251	OPGD	Outdoor Plug-Go connectors / dimming	
Cool White	5000°K	70	C750	260	18D	18/3 bonded / for dimming	
COLOR	Chromaticity			Order Suffix	Lumens / FT Typical @ 60mA	18	18 gauge bonded
	x	y	Wavelength				
Red	.700	.299	626nm	R	36	T	20 gauge tray cable
Green	.189	.718	530nm	G	84	PG	Plug-Go connectors / indoor
Blue	.133	.075	470nm	B	24	OPG	Plug-Go connectors / outdoor
Amber	.056	.043	590nm	A	Consult Factory	ORDERING	
Other LED, CRI, CCT and luminous flux options may be available. Consult Factory					1) Specify termination length when ordering. Consult Factory for runs over 75'. 2) Specify exact fixture length from 6" to 145" when ordering. **Add suffix – F for frosted extrusion.		

To Order, Specify...

SERIES – LENGTH** – LED / WIRING (*INCLUDE LENGTH and TYPE)

Example...

Model RIA150-65-W830/10TD

Series RIA, 65" L, Warm white 85 CRI 3000°K LEDs, with 10' Tray cable termination leads for Dimming.

DIMMING

An additional DIM line in the wiring board is provided to allow fixtures to be dimmed. When dimming is specified, a third wire is provided in the fixture termination to accept a 0 – 10VDC signal from the dimming controller (by others). The controller must be able to sink .5mA per foot of RIA fixture. Less than .5mA will be "off". If the controller cannot sink all the way down to .5mA, a separate control should be used to disconnect the AC from the LED driver to turn the fixture(s) completely off. Wiring is as shown in schematic.

SCHMATIC

