



Energy Efficient, High Quality,
LED Lighting Products

SERIES LIA/D

HIGH LUMINOUS INTENSITY CUSTOM DESIGNED LED ILLUMINATION ASSEMBLIES

Prolume **Series LIA/D** Custom Designed LED Illumination Assemblies bring the next generation of high luminous intensity white light LEDs to the proven platform of the original LIA series offering almost twice the brightness. Key features include...

- Nichia White Lamp DS Series LEDs**
 InGaN Type Φ 5mm through-hole LEDs provide higher luminous intensity, longer lifetime and lumen maintenance performance (Up to 50,000 hrs to 70LM @20mA) with greater variation in viewing angle and color temperature selection. (See Selection Table). Color LEDs also available.
- Basic Design**
 Assemblies use illumination boards with direct view LEDs and electronic control circuits enclosed in sealed flexible ribbed polycarbonate co-extrusions of application specific lengths of up to 12 feet. Extrusion is UV stabilized with a 94V-2 flammability rating. LED spacing (pitch) can vary (see LED Selector Guide) to control luminous intensity and light distribution.
- Mounting**
 Options include VHB tape, stainless steel mounting clips and channel clips and articulating brackets. Custom brackets and channels can be tailored to specific application requirements (consult factory).
- 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 page.
- Agency**
 Assemblies are UL Listed for both indoor and wet location.

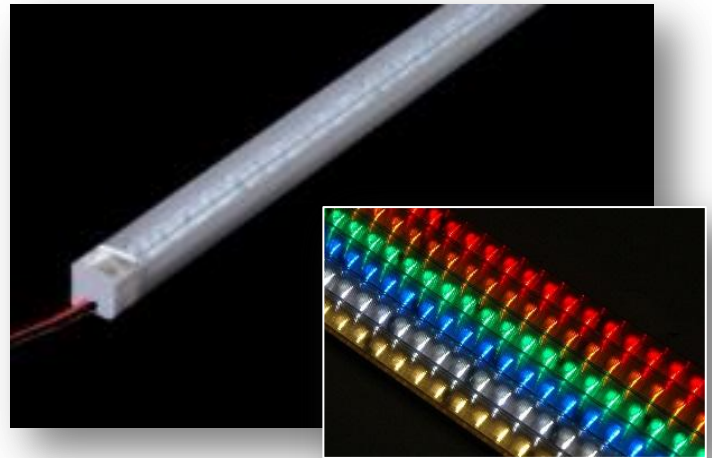


Fixture Schedule:

Type	Model Number

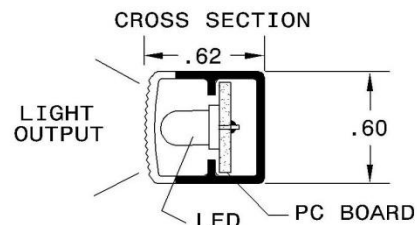
Job:

Remarks:



- Applications and Customization**
 Applications include edge, accent and cove lighting, retrofits, handrails, signage, display case lighting and more. Assemblies can be further customized with the addition of custom mounting rails and channels, brackets and finishes. Consult factory with requirements.
- Power**
 Assemblies are rated at 2.0 watts / foot based on 1/2" pitch (spacing). For other LED pitch densities see Pitch / Spacing Table.
- Dimming**
 Fixtures can be dimmed using a separate PWM module in the circuit. Consult factory for acceptable modules.
- Wiring / Termination**
 Standard fixture wiring includes 18-20 gauge leads, tray cable, plug-go connectors and nun-chuck wiring as the application requires. Specify or consult factory

CO-EXTRUSION DETAIL



HIGHLY INNOVATIVE • TECHNOLOGY BASED • QUALITY LIGHTING PRODUCTS

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TECHNICAL / ORDERING INFORMATION

LED SELECTOR					WIRING OPTIONS	
COLOR	COLOR TEMP*	VIEWING ANGLE	ORDER SUFFIX	LUMENS / LED @ 20mA	ORDER SUFFIX	Type / Description
Warm White	3000°K*	15°	1WD	3.7	18	18 gauge / typical indoor
		50°	5WD		20	20 gauge / typical display case
Neutral White	4000°K	15°	1ND	4.3	T	20/2 tray cable / indoor, outdoor
		50°	5ND		PG	Plug-Go connectors /daisy chain
Cool White	5000°K	15°	1CD	5.2	OPG	Outdoor Plug-Go connectors
		45°	5CD		C	Custom / Consult Factory
COLOR	Chromaticity			ORDER SUFFIX	Luminous Intensity per LED (mcd)	Notes: 1) Specify termination lengths when ordering wiring options. 2) Specify exact fixture length in odd inches (5" to 147") when ordering. Other LEDs, viewing angles, drive current options, wiring, lengths and custom mounting options may be available. CONSULT FACTORY
	X	Y	Wavelength			
Red	.700	.299	626nm	30R	5000	
Green	.170	.700	530nm	30G	4600	
Blue	.133	.075	470nm	30B	4700	
Amber	.560	.435	590nm	30A	7800	

* 40,000 Hour Life to 70LM @ 20mA

PITCH (LED SPACING) / POWER

Pitch	1/2"	1"	1 1/2"	2"	3"	4"
Power (W) / ft	2.0	1.5	CONSULT FACTORY			
Pitch Suffix	5	1	6	2	3	4

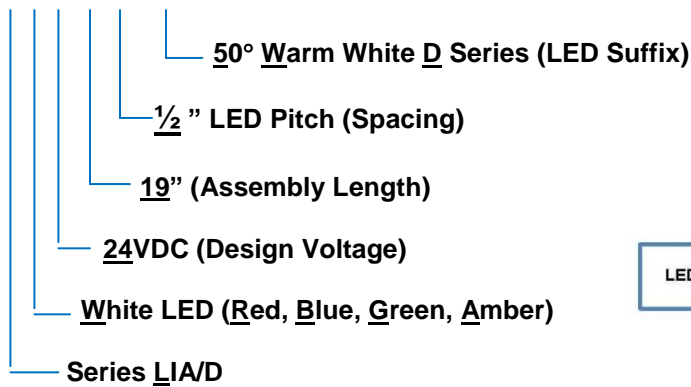
TYPICAL INTENSITY (1/2" Pitch)

3000°K - 89 lumens / foot
 4000°K - 103 lumens / foot
 5000°K - 125 lumens / foot
 (Note: Intensities may vary +10% / -5%)

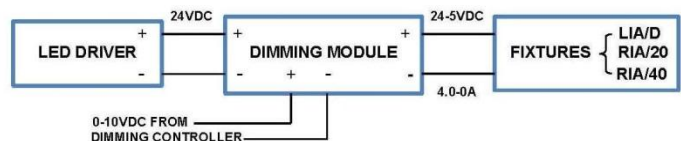
ORDERING...

Specify the Series, LED color, voltage, assembly length, pitch desired (1/2", 1", 1 1/2", 2", 3", 4"), LED Suffix (from Table) and termination (length and type). Power supply sizing will be based on assembly lengths and application requirements.

Model LW24-19-5-5WD/10T ——— 10' Tray Cable (Termination)



DIMMING SCHEMATIC*



*Fixtures may also be dimmed using a dedicated dimming driver with a PWM protocol.