



# DURALUM™ IP20 INDOOR MODULE STRAND

## Key Features

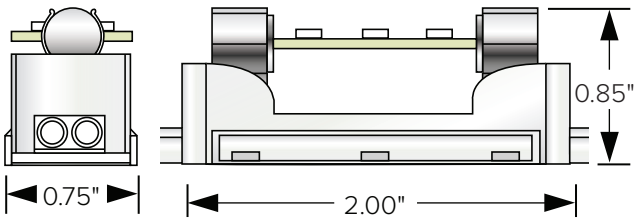
- Critical neutral to warm white color applications within +/-50°K, recommended for indirect illumination of interior coves, niches, toe kick and cabinetry with high CRI illumination on color or white backgrounds up to 5 feet high
- Flexible field cuttable dual wire system - 90° horizontal bend, 45° vertical bends for complex cove and niche applications
- Custom model series LED modules create high CRI illumination at up to over 340 Lumens per foot
- Low maintenance, energy efficient lighting for high or low ambient light interior applications
- Multiple dimming options available

## High Output LED Strand

Adjustable multiple array LED modules in a flexible system for directional control of premium color illumination.



## Dimensional Drawings



## Details

- Spacing** 2.4" & 3.0" OC Spacing
- LED PCB** Replaceable SMD LED modules with 6 LED array with snap-in cap connection for rotational adjustability
- Adjustability** +/-60° directional LED modules (120° total adjustability) offers the ability to manually set the angular throw of light individually, distributing light over 300° range
- Colors** 2200°K, 2700°K, 3000°K and 3500°K
- MacAdam Ellipse** Advanced LED binning with +/- 2-step MacAdam ellipse
- Mounting** Optional aluminum mounting channel for linear mounting or mounting clips (2 per foot) for curved or arched applications
- Lens** Optional linear lens mounts in channel to protect LEDs from direct contact and create a maintainable dust cover
- Max run length** 75 LED PCBs per 4A class II circuit
- Listing** cULus / CE listed
- Compliance** ROHS compliant
- Warranty** 3 year warranty

## Product Specification Guide

Spacing	Watts per foot	Product max run limitations (Ft/W/LED's)
2.4" OC	5.60W/ft	15' / 75 PCB's per 4A Class II circuit
3.0" OC	4.48W/ft	19' / 75 PCB's per 4A Class II circuit

## LED Data

Model	Wattage	Lifespan at 90% drive
DuraLum	0.9W per PCB	60,000hrs

\* LEDs operating at 90% of LED manufacturers maximum current rating.

## Fixture Data

Model	Efficacy* Lm/Wt	CRI	Lm/Ft	Lm/Module	Wt/Ft	Wt/Module
DuraLum						
2200°K at 2.4" OC	54.48*	85.2	245.16	49.03	4.50	0.9
2700°K at 2.4" OC	63.37*	84.6	285.17	57.03	4.50	0.9
3000°K at 2.4" OC	66.67*	83.5	300.00	60.00	4.50	0.9
3500°K at 2.4" OC	71.38*	84.8	321.19	64.23	4.50	0.9

\*Meets Title 24 High efficacy rating.

## Ordering Guide

PRODUCT CODE	LED SPACING	COLOR	OUTPUT	VOLTAGE	+	WIRING	+	MOUNTING	+	POWER SUPPLY
DRL — DuraLum™	<b>24</b> — 2.4" OC	<b>22</b> — 2200K	<b>SO</b> — Standard Output	<b>24</b> — 24 VDC						
	<b>30</b> — 3.0" OC	<b>27</b> — 2700K								
		<b>30</b> — 3000K								
		<b>35</b> — 3500K								

\*2400K available upon request

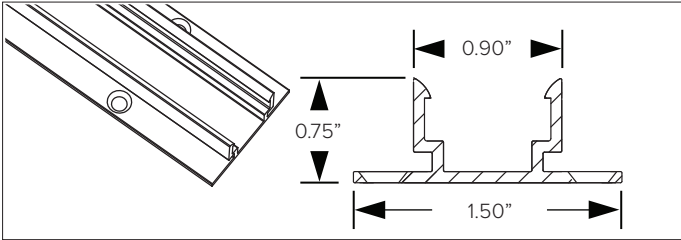
## Wiring



### DRL-TERM-BLK

Duralum terminal block available separately. Accepts AWG #10, 12 or 14 wire.

## Mounting

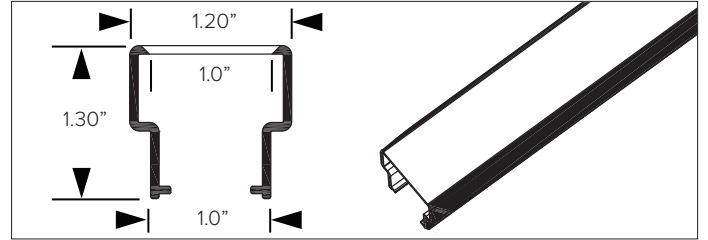


### DRL-CHAN-4

Aluminum mounting channel for straight run applications. Channel screws into place, lamp sockets fit into channel ensuring linear integrity and reducing installation time. Finish is standard satin aluminum. 1.5"W x 0.75"H. Available in 4' sections.

### DRL-CH-EC

Channel endcaps for aluminum mounting channel. Set of 2.

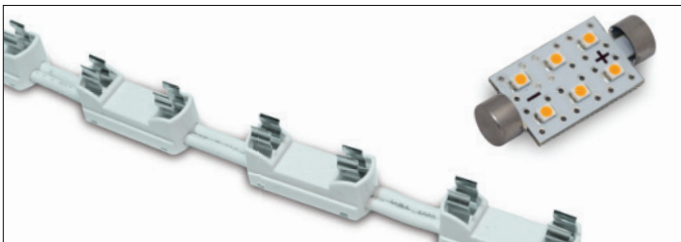


### DRL-LENS-C-4 *Clear Lens*

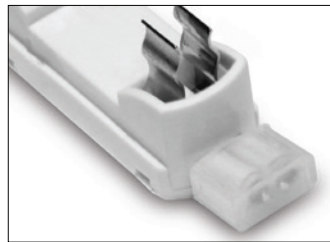
### DRL-LENS-F-4 *Frosted Lens*

### DRL-LENS-O-4 *Opaque Lens*

Clear, frosted or opaque polycarbonate lens for channel. Protects LED modules from direct contact. Available in 4' sections.



- DRL-CM-DW-22-24** 2200K PCB module
- DRL-CM-DW-24-24** 2400K PCB module
- DRL-CM-WW-27-24** 2700K PCB module
- DRL-CM-WW-30-24** 3000K PCB module
- DRL-CM-NW-35-24** 3500K PCB module



### DRL-EC

Each length of Duralum can be terminated with PVC end caps to protect and insulate the conductors at the end of a run.



### DRL-CC

White PVC cable mounting clamp secures Duralum cable to surface with a single screw on each side of clamp (screws not included).

### Power Supply

Product Code	Type	Wattage	Voltage	Dimmable	Listing	Dimensions
<b>DEL-I-120-1-4-24</b>	Electronic Power Supply in Enclosure	96W / 1X4A**	90-305V AC / 24V DC	Non Dimmable	cULus	10"W X 10"L 4"D*
<b>DEL-I-240-2-4-24</b>		192W / 2X4A**				
<b>DEL-I-320-3-4-24</b>		288W / 3x4A**				
<b>DEL-120-1-4-24</b>	Electronic Stand alone	96W / 1X4A**		UL/CE	2.67"W X 9.66"L 1.53"D	
<b>DEL-I-120-1-4-24-D</b>	Electronic Power Supply in Enclosure with Integral Dimming	96W / 1X4A**		Integral 0-10V Dimming Interface	cULus	10"W X 10"L 4"D*
<b>DEL-I-240-2-4-24-D</b>		192W / 2X4A**				
<b>DEL-I-320-3-4-24-D</b>		288W / 3x4A**				
<b>DMG-40-1-1.6-24-D</b>	Magnetic Dimmable in enclosure	40W / 1X1.6A**	120V AC / 24V DC	Triac or MLV	cETLus	2.00"W X 5.06"L 2.14"D
<b>DMG-60-1-2.4-24-D</b>		60W / 1X2.4A**				2.25"W X 6.55"L 2.55"D
<b>DMG-120-1-4-24-D</b>		96W / 1X4A**				3.00"W X 9.80"L 3.00"D
<b>DMG-192-2-4-24-D</b>		192W / 2X4A**				3.00"W X 9.80"L 3.00"D

\* Dimensions include enclosure with mounting bracket

\*\* 4A maximum current protection for each secondary circuit

\*\*\* Constant voltage drivers 50HZ , voltage regulated with short circuit protection. operating temperature -40 C- 80° C

#### Electronic Drivers

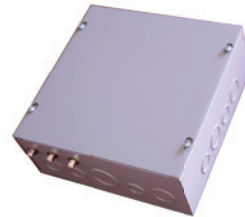
For use with or without 0-10V interface for secondary side dimming control. Generally used for programmable dimming levels for changing scenarios.

#### Magnetic Transformers

For use with primary side dimming with an MLV forward phase dimming system (supplied by others). Generally used for a pre-set dimming level.



Electronic Driver Standalone



Electronic Driver in Enclosure



Magnetic Transformer

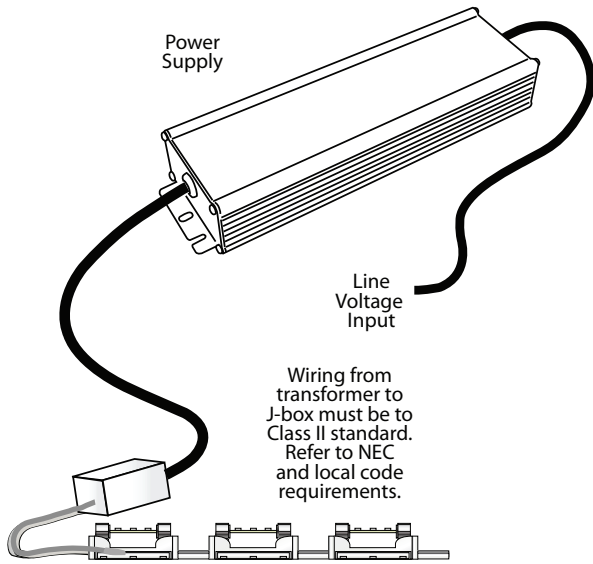
### Dimmer (Optional)

Product Code:	Type	Max Load	Voltage	Dimensions
<b>D-MG-600</b>	Magnetic	450W	120VAC/120VAC	Single Gang Box - Recessed
<b>D-MG-1000</b>		800W	120VAC/120VAC	Dual Gang Box - Recessed

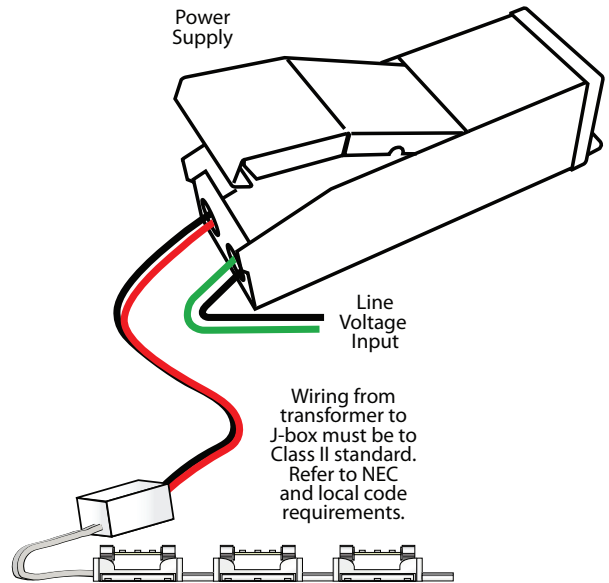


DM-G  
Single Gang Dimmer

Electronic Driver

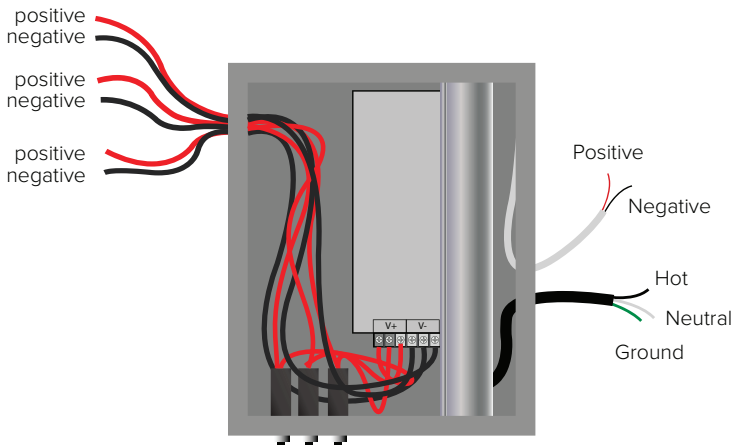


Magnetic Transformer



## System Layout Example Diagram

Standard Power Supply



Electronic Power Supply with integral 0-10V Dimming

