



# Dialight

## LED Vehicle Lighting Selector Guide

[www.dialight.com](http://www.dialight.com)



# Lighting technology

In business since 1938, Dialight continues to pioneer some of the most innovative applications in LED technology since the development of the LED in the early 1970s.

Our LED products for the electronics industry have given engineers better ways to indicate status on all kinds of equipment. Dialight LED traffic signals have saved municipalities millions of dollars in energy costs and maintenance. Our LED signal and marker lights for heavy-duty vehicles often outlast the vehicles themselves.

We put our expertise to work for you by designing the most reliable and cost-effective LED products available. As a vertically integrated supplier, Dialight has the resources to design and produce everything in-house, supported by a global sales and distribution network.

Dialight offers a complete range of LED based marker and signal lamps for a variety of different types of vehicles, such as:

- Transit Buses
- Heavy Duty Truck and Trailers
- School Buses
- Rail Cars
- Tactical Vehicles
- Motor Coaches
- RV's
- Emergency Vehicles

...and many, many other applications.

So if you're looking for the best and brightest in LEDs, look no further than Dialight.

[www.dialight.com](http://www.dialight.com)



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## Heavy Duty Vehicle Marker and Signal Lights

Dialight's Diode Lite line of LED truck signal and marker lights include oval, round and rectangular turn signals, standard, rectangular and round marker lights, oval center-high mount, cab markers, and front park/turn signals.



**Page 6**

## White Illumination

Dialight offers a complete line of white lighting including reading lights, strip lights, reverse lighting, stepwell and mini-markers that can be used in a variety of applications where white lighting is needed.



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## School Bus

Incorporating the latest in LED technology, Dialight's warning, signal, and marker lights are designed specifically for the school bus market.



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## Tactical Lighting

Dialight has developed a complete line of Tactical signal and marker lighting to be used as an easy incandescent retrofit upgrade for new and existing military vehicles.



**Page 10**

## Rail

Dialight has developed this new LED 5.5" Red Tail Marker to be a drop in replacement for existing PAR 46 Sealed Beam Tail Markers that are currently being used on Transit and Commuter Railroads across North America.

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## Accessories

A variety of accessories are available, including safeguards, mounting grommets, brackets, surface mount adapters, branch deflectors, and anti-theft brackets.



**Page 11 & 12**

## Bus Marker and Signal Lights

Dialight offers a complete range of LED-based marker and signal lamps for buses, featuring longer life, lower power requirements and better shock and vibration resistance than fragile incandescent lights.



# HEAVY DUTY VEHICLE MARKERS

**DiodeLite®**

Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance
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## MARKER LIGHTS

	13	1" x 2.5"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: white;">○</span> White</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	14	1.63" x 4.5"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	15	0.88" x 4"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: white;">○</span> White</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	16	2" Round	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> </ul>	Grommet	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	17	2.5" Round	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: white;">○</span> White</li> </ul>	Grommet/Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	18	1.95" x 4.8"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: blue;">●</span> Blue</li> <li><span style="color: green;">●</span> Green</li> <li><span style="color: white;">○</span> White</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	19	0.66" x 5.4"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	20	2.2" x 4.5"	<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE



# HEAVY DUTY VEHICLE SIGNALS

**DiodeLite®**

Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## STOP/TAIL/TURN

	40	4" Round	● Red	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	46	4" Round	● Red	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating; Regulator
	60/64	2" x 6" Oval	● Red	Vertical Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	61/65	2" x 6" Oval	● Red	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	68	2" x 6" Oval	● Red	Vertical or Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating; Regulator
	70	7" Round	● Red	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating; Regulator
	80	4" x 6.5"	● Red	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	84	4.5" x 5.5"	● Red	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

# HEAVY DUTY VEHICLE SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## CHMSL (CENTER HIGH MOUNT STOP LIGHT)

	62	2" x 6" Oval	● Red	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	87	18" Strip	● Red	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

## REAR TURN

	41	4" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	64	2" x 6" Oval	● Amber	Vertical Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	65	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	68	2" x 6" Oval	● Amber	Vertical & Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	70	7" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	80	4" x 6.5"	● Amber	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	84	4.5" x 5.5"	● Amber	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating



# HEAVY DUTY VEHICLE SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## BACKUP

	46	4" Round	○ White	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	71	7" Round	○ White	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	68	2" x 6" Oval	○ White	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

## FRONT TURN

	42	4" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	42	4" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	66	2" x 6" Oval	● Amber	Vertical Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	67	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	67	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	81	4" x 6.5"	● Amber	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

# WHITE ILLUMINATION

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
	586	.979" Round x 1.55" Long	Cool White	Bayonet Base	24	Bayonet Base	FMVSS 108 & SAE		
	13	1" x 2.5"	Cool White	Surface	12 & 24	.180 Bullets/ Bare Wire			
	15	.88" x 4"	Cool White	Surface	12 & 24	.180 Bullets/ Bare Wire			
	17	2.5" Round	Cool White	Flange	12 & 24	Packard Connector/ Bare Wire	FMVSS 108 & SAE		With or Without Optics
	18	1.95" x 4.8"	Cool White	Surface	12 & 24	Packard Connector/ Bare Wire			
	46	4" Round	Cool White	Grommet; Flange	12 & 24	Packard Connector/ Bare Wire	FMVSS 108 & SAE		High and Low Intensity
	47	4" Round	Cool White	Grommet; Flange	12 & 24	Packard Connector/ Bare Wire			Clear Lens High and Low Intensity
	79	8.29" x 1.92"	Cool White	Surface	12 & 24	Packard Connector/ Bare Wire	FMVSS 108 & SAE	License Plate Light	
	87	18" Strip	Cool White	Surface	12 & 24	EDAC Connector		Low Intensity Strip Light	Diffused, Clear Lens or Hard Coating
	VSL	18" Strip	Cool & Warm White	Surface	10-30		ADA	High Intensity Strip Light	Diffused, Clear Lens or Hard Coating
	SB4	3" Round	Cool & Warm White	Recessed Surface	24	Bare Wires		Recessed Spot Light	



# SCHOOL BUS MARKERS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance
	13	1" x 2.5"	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> <li>○ White</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	14	1.63" x 4.5"	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	15	0.88" x 4"	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	16	2" Round	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> </ul>	Grommet	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	17	2.5" Round	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> <li>○ White</li> </ul>	Grommet & Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	18	1.95" x 4.8"	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> <li>● Blue</li> <li>● Green</li> <li>○ White</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	19	0.66" x 5.4"	<ul style="list-style-type: none"> <li>● Red</li> <li>● Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE
	20	2.2" x 4.5"	<ul style="list-style-type: none"> <li>● Amber</li> </ul>	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE

# SCHOOL BUS SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Options
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## STOP/TAIL/TURN

	40	4" Round	● Red	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	46	4" Round	● Red	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	60	2" x 6" Oval	● Red	Vertical Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	61	2" x 6" Oval	● Red	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	75	7" Round	● Red	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	80	4" x 6.5"	● Red	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	84	4.5" x 5.5"	● Red	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator

## CENTER HIGH MOUNTED STOP LAMP (CHMSL)

	62	2" x 6" Oval	● Red	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating; Regulator
	87	18" Strip	● Red	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	

## WARNING LIGHTS

	76	7" Round	● Red ● Amber ● Red/Amber	Grommet	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Hard Coating
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# SCHOOL BUS SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## REAR TURN

	41	4" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	64	2" x 6" Oval	● Amber	Vertical Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	65	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	75	7" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	80	4" x 6.5"	● Amber	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	84	4.5" x 5.5"	● Amber	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

## FRONT TURN

	42	4" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Housed	Hard Coating
	42	4" Round	● Amber	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	81	4" x 6.5"	● Amber	Mounting Bracket	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

## BACK UP

	46	4" Round	○ White	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	71	7" Round	○ White	Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating
	68	2" x 6" Oval	○ White	Horizontal Grommet; Flange	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

# MILITARY / TACTICAL AND RAIL

	Series	Description	Available Colors	Mounting Options	Nominal Voltage
	TFP	Front Park	● Amber	Surface	10-30
	TST	Rear Tail	● Red	Surface	10-30
	TMK	Rectangular Marker	● Red ● Amber	Surface	10-30
	TM4	45 Degree Marker	● Red ● Amber	Surface	10-30
	TBL	Black-out Drive	● Green	Surface	10-30
<b>COMING SOON</b>	TBU	Back-up Light	○ White	Surface	10-30

## RAIL

	P46	5.5" Rail Marker Light	● Red	Surface	24-90
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## ACCESSORIES

	91802A	18 Series Armor Guard			
	94001A	40 Series Mounting Grommet			
	96001A	60 Series Mounting Grommet			

94012B 3 Position Packard Connector Kit, Male Connector, Female Terminals  
 94012C 3 Position Packard Connector Kit, Female Connector, Male Terminals  
 94511B 2 Position Packard Connector Kit, Male Connector, Female Terminals  
 94511C 2 Position Packard Connector Kit, Female Connector, Male Terminals

# BUS MARKERS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance
	13	1" x 2.5"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: white;">○</span> White</li> </ul>	Surface	12 & 24	.180 bullets	FMVSS 108 & SAE
	15	0.88" x 4"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: white;">○</span> White</li> </ul>	Surface	12 & 24	.180 bullet and ring terminal	FMVSS 108 & SAE
	16	2" Round	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> </ul>	Grommet	12 & 24	Packard Connector	FMVSS 108 & SAE
	17	2.5" Round	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: white;">○</span> White</li> </ul>	Grommet Flange	12 & 24	Packard Connector	FMVSS 108 & SAE
	18	1.95" x 4.8"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> <li><span style="color: blue;">●</span> Blue</li> <li><span style="color: green;">●</span> Green</li> <li><span style="color: white;">○</span> White</li> </ul>	Surface	12 & 24	Packard Connector	FMVSS 108 & SAE
	19	0.66" x 5.4"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> </ul>	Surface	12 & 24	.180 bullet and ring terminal	FMVSS 108 & SAE
	20	2.2" x 4.5"	<ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Amber</li> </ul>	Surface	12 & 24	Packard Connector	FMVSS 108 & SAE
	45	1.63" x 4.5"	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: orange;">●</span> Amber</li> </ul>	Surface	12 & 24	Packard Connector	FMVSS 108 & SAE

# BUS SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## STOP/TAIL/TURN

	40	4" Round	● Red	Grommet; Flange	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	46	4" Round	● Red	Grommet; Flange	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating; Regulator
	60/64	2" x 6" Oval	● Red	Vertical Grommet; Flange	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	61/65	2" x 6" Oval	● Red	Horizontal Grommet; Flange	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	68	2" x 6" Oval	● Red	Vertical or Horizontal Grommet; Flange	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating; Regulator
	70	7" Round	● Red	Grommet; Flange	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating; Regulator
	80	4" x 6.5"	● Red	Mounting Bracket	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	84	4.5" x 5.5"	● Red	Mounting Bracket	12 & 24	3 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating



# BUS SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## CHMSL (CENTER HIGH MOUNT STRIP LIGHT)

	62	2" x 6" Oval	● Red	Horizontal Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating; Regulator
	87	18" Strip	● Red	Surface	12 & 24	Bare Wire or Customer Specific Connector	FMVSS 108 & SAE	Potted	Hard Coating

## REAR TURN

	41	4" Round	● Amber	Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating
	64	2" x 6" Oval	● Amber	Vertical Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating
	65	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating
	68	2" x 6" Oval	● Amber	Vertical or Horizontal Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	70	7" Round	● Amber	Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	80	4" x 6.5"	● Amber	Mounting Bracket	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	84	4.5" x 5.5"	● Amber	Mounting Bracket	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating

# BUS SIGNALS

	Series	Size	Available Colors	Mounting Options	Nominal Voltage	Standard Termination	Compliance	Features	Options
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## BACKUP

	46	4" Round	○ White	Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	68	2" x 6" Oval	○ White	Horizontal Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	71	7" Round	○ White	Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating

## FRONT TURN

	42	4" Round	● Amber	Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating
	42	4" Round	● Amber	Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	66	2" x 6" Oval	● Amber	Vertical Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating
	67	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Housed	Hard Coating
	67	2" x 6" Oval	● Amber	Horizontal Grommet; Flange	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating
	81	4" x 6.5"	● Amber	Mounting Bracket	12 & 24	2 Way Packard Connector	FMVSS 108 & SAE	Potted	Hard Coating





# MODIFICATION STATION

*This selector guide provides a brief overview of our standard vehicle LED light sources. Found something you like, but your parameters are slightly different? Complete this form and fax it to us for consideration - with more than 65 years experience, we may already have your solution available!*

## Common modifications include:

### ► Different voltage

- Indicate the Series \_\_\_\_\_, color \_\_\_\_\_, voltage \_\_\_\_\_, circle **AC** or **DC**
- Internal regulators are not always possible; please indicate whether a regulator is needed, circle **YES** or **NO**. Dialight will provide standard wire leads, indicate length desired \_\_\_\_\_, circle unit of measure: **inch** or **mm**.

### ► Mounting

- Indicate grommet \_\_\_\_\_, or flange mount \_\_\_\_\_, flange color \_\_\_\_\_

### ► Coating

- Hard coating; circle **YES** or **NO**.

### ► Connectorized assembly

- Indicate the Series \_\_\_\_\_, color \_\_\_\_\_, voltage \_\_\_\_\_, length of wires from front of mounting panel to end of connector \_\_\_\_\_, circle unit of measure **inch** or **mm**, wire color for anode \_\_\_\_\_, wire color for cathode \_\_\_\_\_, desired connector style indicated by manufacturer name \_\_\_\_\_ and p/n \_\_\_\_\_

### ► Custom requirement - please provide us a drawing of your requirement and include all of the following information so we can expedite our response, and fax to **732-919-5778** or email **info@dialight.com**:

- |   |   |
|---|---|
| ► Estimated initial order _____ and estimated purchase quantity in first year _____ | ► Mounting considerations _____                 |
| ► Target cost _____   | ► Finish _____                                  |
| ► Dialight Distributor of choice _____  | ► Space constraints _____                       |
| ► Voltage - AC (also indicate frequency in Hz) or DC or both _____                  | ► Environmental issues _____                    |
| ► Color _____   | ► FMVSS, SAE or other safety requirements _____ |
| ► Lens style _____  | ► NEMA or IP water sealing requirements _____   |

### DRAWING



# THE LED ADVANTAGE

With the technological advancements in Light Emitting Diodes (LEDs) brightness can now rival the incandescent lamp when incorporated in similar packages such as the non-relampable indicator or Based LED bulbs. Dialight's LED products incorporate the latest in AlInGaP and InGaN LED technology, the technology that is used in all of our high reliability applications such as traffic lights, vehicle lights and aviation lighting.

## BENEFITS OF LEDs

<u>FEATURE</u>	<u>BENEFIT</u>
▶ Operate life > 50k hours	▶ Low maintenance
▶ Solid State	▶ Impervious to shock and vibration
▶ Full range of colors	▶ Ability to mix and change dynamically
▶ Narrow band emitter	▶ 90% less energy for color applications
▶ Low operate voltage	▶ Compatibility with controls
▶ No in-rush current	▶ Ease of power supply design
▶ Very fast - nanoseconds	▶ Safety and ability to multiplex
▶ Precision optics	▶ Higher utilization of light
▶ No mercury	▶ No disposal issues

## COST COMPARISON BETWEEN LED AND INCANDESCENT BULBS



\* Cost includes:  
Replacement of bulb,  
labor, and energy savings

■ Based LED ■ Incandescent Bulbs

### Maximizing Light Output

In order to maximize the light output from LEDs, it is important to match the color of the lens cap to that of the emitting color of the LED. Unlike incandescent lamps, which emit light over the full spectrum, LEDs are monochromatic (emit one color). Since a lens cap is a filter, if not matched properly the overall light output may be substantially reduced.



# Why LED's?



- Last beyond 100,000 hours
- 10x more efficient than incandescent
- Low temperature operation
- Robust solid state construction
- Low voltage
- "Instant" switching operation
- Dynamic color control
- Precision optics

## Other LED Products offered by Dialight

- Surface Mount Indicators (Prism®)
- Circuit Board Indicators (CBI®)
- Optical Light Pipes (Optopipe®)
- Exterior & Interior Vehicle Lights
- LED-based Traffic Signal Products
- Obstruction Lights
- Rail Track and Car Signaling
- Illumination Products
- SpectraMix™ - Color Control Protocol
- Patented Light Engines

[www.dialight.com](http://www.dialight.com)



# Dialight



## ■ Dialight Corporate Office

1501 Route 34 South  
Farmingdale, NJ 07727 USA  
TEL: +1.732.919.3119  
FAX: +1.732.751.5778  
EMAIL: info@dialight.com

## ■ Dialight Ltd.

Exning Road  
Newmarket, Suffolk CB8 0AX UK  
TEL: +44.1638.666541  
FAX: +44.1638.561735  
EMAIL: dialight-sales@dialight.co.uk

[www.dialight.com](http://www.dialight.com)

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Guide Version 5.0

