



BETALIGHT  
when reliability really counts

LOCOMOTIVE

# LOCOMOTIVE LIGHTING SYSTEMS

LIGHTING CATALOGUE



# MODEL 8770

## 7" Round Locomotive Headlamps



### SPECIFICATION

Description	24-110V LED Locomotive Headlight with Spot Beam Pattern
Diameter	170.00 mm / 6.69 in
Depth	103.00 mm / 4.06 in
Shape	Round
Outer Lens Material	Polycarbonate
Outer Lens Colour	Clear
Housing Material	Aluminum
Housing Colour	Gray
Bezel Color	Black
Mounting Type	Panel
Retrofits Minimum	2D1 "PAR56" or 7" Round Headlights
Operating Temperature	-40 °C / -40 °F
Maximum Operating Temperature	65 °C / 149 °F
Connector or Wiring	Standard Sealed Beam Style Screw Terminals
Product Weight	2.60 lbs / 1.18 kgs
Shipping Weight	3.10 lbs / 1.41 kgs

### FEATURES

The Model 8770 offers the most powerful FRA-approved replacement solution for 7" locomotive headlights (PAR56). Designed for railroad locomotives using only high and low functionality (determined through a control line), the Model 8770 GEN3 can also be used as a ditch light application.

#### Features

- 230,000 minimum Candela output
- SmartHeat® technology melts ice and snow to keep locomotive headlights unobstructed
- Die-cast aluminum housing for maximum protection
- Meets all Federal Railroad Administration (FRA) requirements

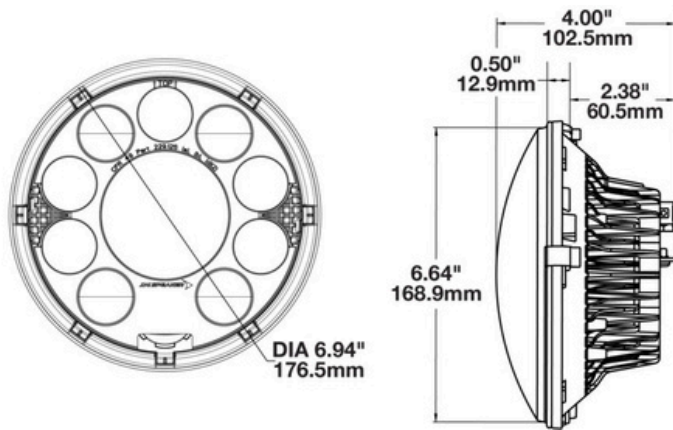


### MODEL 8770

PART NO.	DESCRIPTION
0551901	24-110V LED Locomotive Headlight with Spot Beam Pattern & Heated Lens
.0554601	24-110V LED Locomotive Headlight with Spot Beam Pattern



**PRODUCT DIMENSIONS**



**ELECTRICAL SPECIFICATIONS**

<b>Input Voltage</b>	24-110V DC
<b>Operating Voltage</b>	18-130V DC
<b>Transient Spike Protection</b>	330V Peak @ 1 HZ-100 Pulses
<b>Current Draw</b>	2.10A @ 24V DC (High Output) 0.75A @ 75V DC (High Output) 0.55A @ 110V DC (High Output) 1.00A @ 24V DC (Low Output) 0.45A @ 75V DC (Low Output) 0.30A @ 110V DC (Low Output)

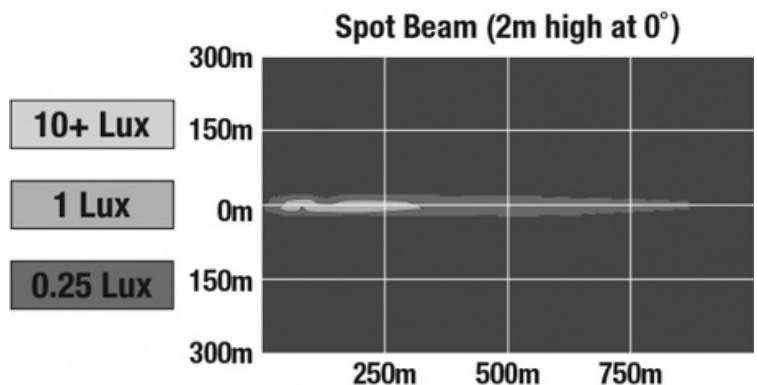
**REGULATORY STANDARDS COMPLIANCE**



Buy Standards Eco Friendly  
 FRA Title 49 CFR 229.125 (a) FRA Title 49 CFR 229.125 (b)  
 FRA Title 49 CFR 229.125 (d) (2) IEC IP67  
 Tested to ECE Reg. 10 (Radiated Emissions only)

**PHOTOMETRIC SPECIFICATIONS**

<b>Raw Lumen Output</b>	2,200
<b>Effective Lumen Output</b>	2,041
<b>Candela Output</b>	260,000
<b>Nominal LED Color Temperature</b>	5100 K
<b>Beam Pattern(s)</b>	Forward Lighting - Spot



# Model 93

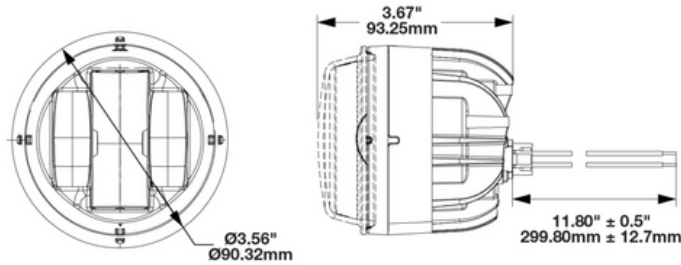
## LED 90mm Round Headlight Insert (Low Beam) & (High Beam / Park) & (Fog)



### SPECIFICATION

Description	LED Model 93 sets a new standard for 90mm headlights & fog turn/DRL.
Lumen Output	Raw: 630 (High); 1,910 (Low); 1,435 (Fog) Effective: 230 (High); 575 (Low); 607 (Fog)
Candela Output	45,000 (High); 18,500 (Low); 7,500 (Fog)
Input voltage	12V - 24 V DC
Lens Material	Polycarbonate
Housing Material	Die-cast Aluminum
Operation Temp.	-40 °C / 65 °C
Weight	0.45 kg
Connector	High Beam: Deutsch DT04-3P (Deutsch DT06-3S Mating) Low Beam & Fog: Deutsch DT04-2P (Deutsch DT06-2S Mating)
Standards	ECE Reg. 6, 7, 19, 87 & 112 FMVSS 108 s7.1 (Table VI) SAE J2087, SAE J588

### EFFECTIVE LUMEN ISOLUX CHARTS



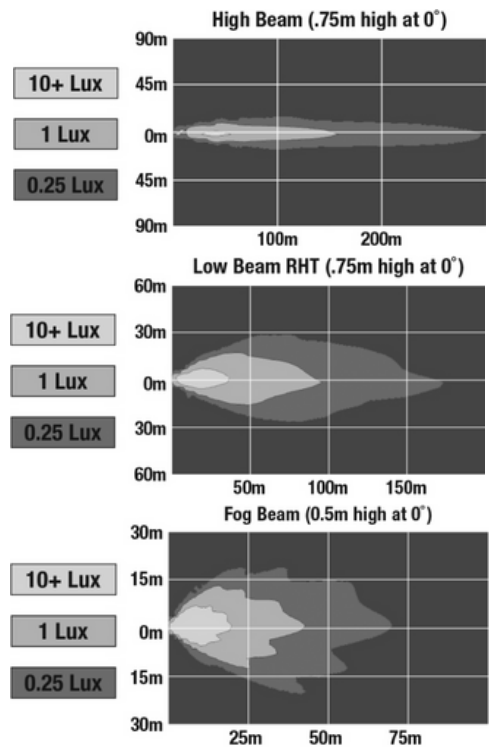
8001461 & 8001471  
3-Point Mount



8001601  
Pedestal Mounting



8001621  
Double lamp pedestal mount



### MODEL 93

Part No.	Description
0553071	DOT/ECE LED High Beam Headlight
0554381	DOT/ECE LED High Beam Headlight with Front Position
0553091	ECE Reg 112 LHT LED Low Beam Headlight
0553101	DOT/ECE Reg 112 RHT LED Low Beam Headlight
0556701	SAE/ECE LED Fog Light
0347941	SAE/ECE LED Turn Signal with DRL Function

Part No.	Description
8001461	3 Point Mount - 1.5mm thick mounting
8001471	3 Point Mount - 3mm thick mounting
8001601	Single lamp pedestal mount
8001621	Double lamp pedestal mount



# Model 210

## LED Solar Flasher & Warning Light

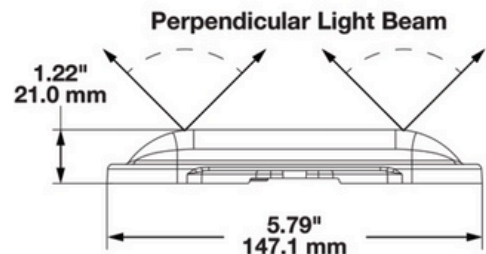


### SPECIFICATION

Description	LED Solar Amber Flasher and Warning Light
Visible	up to 1.6 km / 1 mile
Beam pattern	Flashing warning - 0.5 Hz
Battery time	120 hours
Battery charge time	6 hours
light output	11 candela
Outer Lens Material	Modified acrylic - will not degrade in UV Light
Outer Lens Colour	Clear
Housing Material	Polycarbonate
Housing Colour	Black
Size	136 x 147.1 x 21 mm
Mounting Type	Low profile
Min & max Operating Temperature	-40 °C 65 °C
Weight	180 gram
Standards	IEC IP69K - IP67

### FEATURES

- Up to 11 Candela brightness
- Visibility of up to 1500 meter
- Perpendicular light beam offers easier identification from further distances
- ClickBond™ adhesive mount eliminates drilling and risking the structural integrity
- Rugged Housing is IP67, and IP69k rated for the harshest environments
- Available in amber or red to accommodate multiple applications
- Clean, reusable energy LED is maintenance-free
- Fully Charged in 6 hours, lasts for 120 hours
- 1-year warranty



### MODEL 210

PART NO.	DESCRIPTION
0647031	LED Solar Amber Flasher and Warning Light
0647041	LED Solar Red Flasher and Warning Light
0647071	LED Solar Amber Flasher and Warning Light with Mounting Kit
0647081	LED Solar Red Flasher and Warning Light with Mounting Kit

### PART ACCESSORIES

PART NO.	DESCRIPTION
8200491	Mounting kit for work lights



# RAILWAY

## LABELS & PHOTOLUMINESCENT SIGNS FOR COACHES

SEPTEMBER 2016



Making the world  
a safer place



**BETALIGHT**

when reliability really counts

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# LABELS & PHOTOLUMINES

## 1 ROUTE MAP



## 2 WARNING SIGNS



## 3 DOOR SIGNS



## 4 EMERGENCY STOP



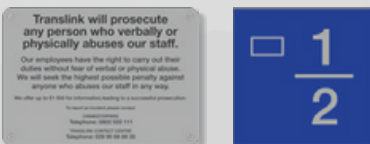
## 5 SPECIAL SEATS & ACCESSIBILITY



## 6 INFORMATIVE



## 7 ALUMINIUM PLATES & SEATS



## 8 EMERGENCY



## 9 FIRE FIGHTING EQUIPMENT



## 10 EVACUATION PLAN



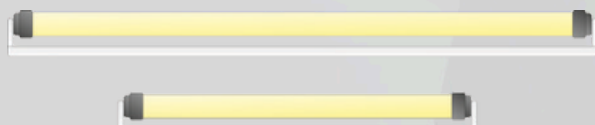
## 11 INFORMATION, FIRST AID



## 12 WINDOWS SIGNS



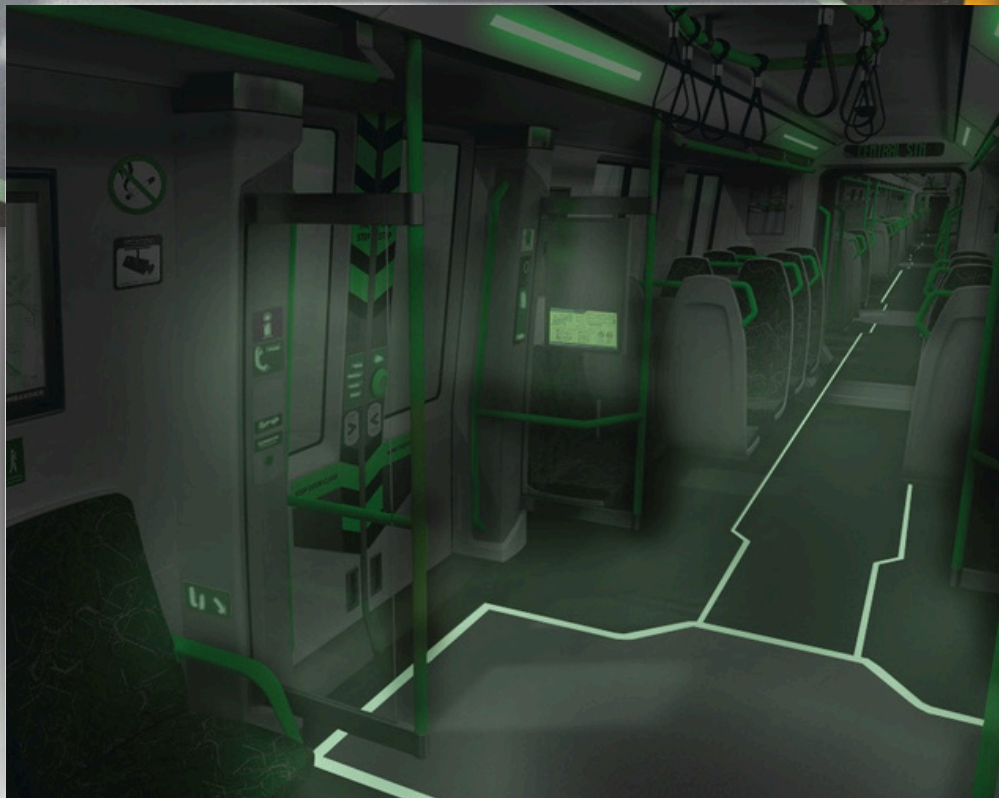
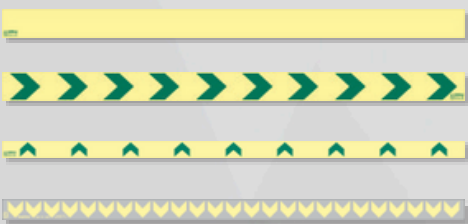
## 13 EMERGENCY LIGHTING (IMPLATUBE)



# SCENT SIGNS FOR COACHES

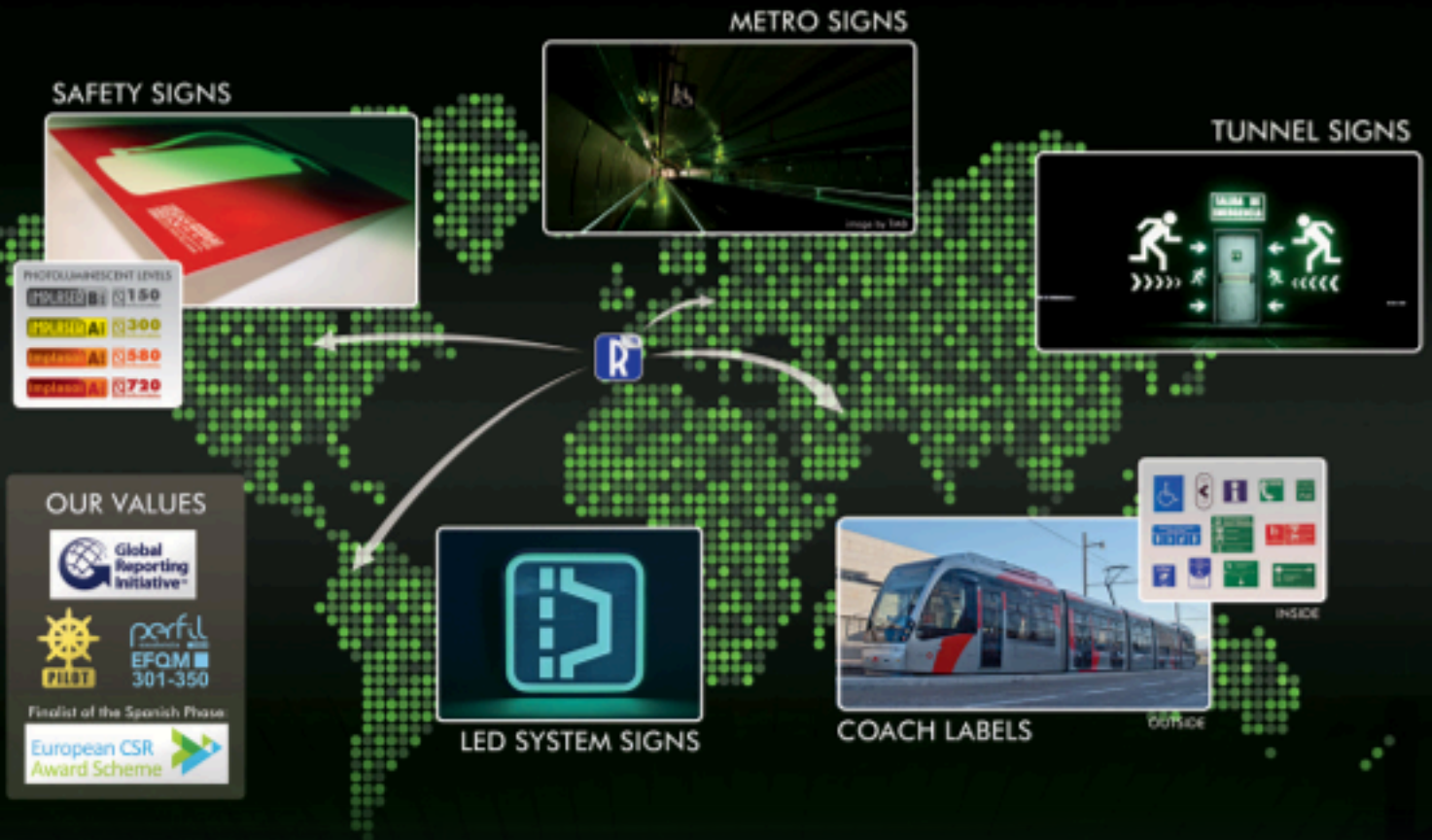


14 LLL (LOW LOCATION LIGHTING)





# Making the world a safer place



Our business lines

