J.W. SPEAKER®

TRANSPORT CATALOGUE

2nd Edition 2024

LED Lighting

Headlight Inserts //
Forward Lighting //
Zone Lighting //
Emergency Lighting //





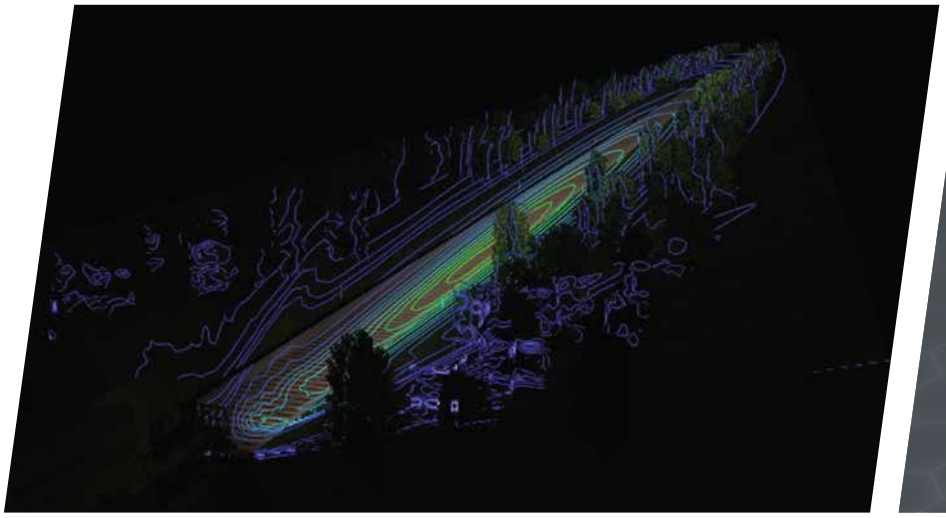
J.W. SPEAKER®
Engineered. Lighting. Solutions.

INVISION
lighting technology

Invision Sales is dedicated to offering the highest quality lighting solutions within the mining industry, including industry leading 3D light mapping. This service allows Invision to digitally mount lighting to specific machinery without the need for on site trials and evaluations which can be almost impossible for machines and sites running 24/7.

For further information about these services, please contact Invision Sales on **03 9336 2066.**





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DELIVERING
HI-TECH LIGHTING
SOLUTIONS

J.W. SPEAKER
Engineered. Lighting. Solutions.

MODEL 8770 GEN 3

LED 7" (178mm) Locomotive Headlight

(Low Beam / High Beam)

PART NO:	BEAM COLOUR:
0555711	5000K Cool White
0561051	3000K Warm White

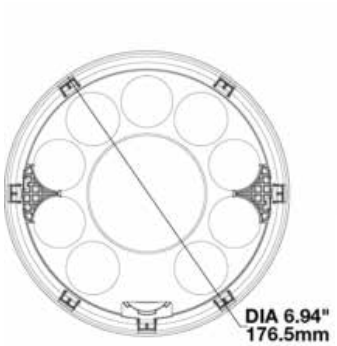


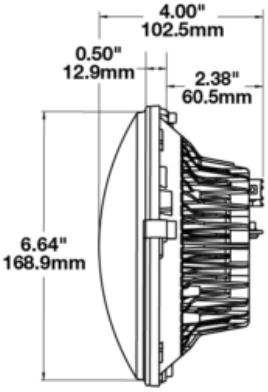
PRODUCT SPECIFICATIONS

Light Source:	LED (Light Emitting Diodes)
Lumen Output:	Raw: 2,200 (High) Effective: 2,041 (High); 204 (Low) * Low beam is a dimmed 10% of Max Output *
Candela Output:	High Beam: 260,000 Low Beam: 26,000 * Low beam is a dimmed 10% of Max Output *
Input Voltage:	24V - 110V DC (18-130V DC Operating Voltage)
Maximum Current Draw:	2.10A @ 24V DC (High Beam) 0.75A @ 75V DC (High Beam) 0.55A @ 110V DC (High Beam) 1.00A @ 24V DC (Low Beam) 0.45A @ 75V DC (Low Beam) 0.30A @ 110V DC (Low Beam)
LED Colour:	5000K or 3000K
Transient Sprike Protection:	330V Peak @ 1 HZ-100 Pulses
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	2D1 “PAR56” or 7" round headlights
Connector:	Standard Sealed Beam Style Screw Terminals
Standards:	See next page





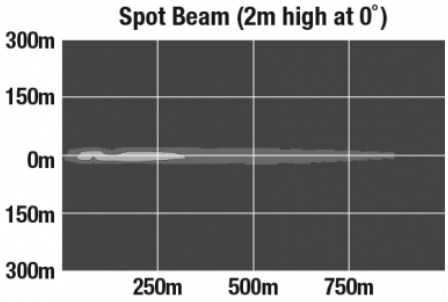




EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance

- 10+ Lux
- 1 Lux
- 0.25 Lux



LOCOMOTIVE LIGHTING

J.W. Speaker locomotive range, Model 8770GEN3, offers the most powerful replacement solution for 7" (178mm) Round locomotive headlights (PAR56).

Features

- Polycarbonate Lens for maximum protection.
- Die-cast aluminium housing.
- Designed to meet Australian Standards: AS7531.1
- 200,000 minimum candela
- Models available to suit 24/75/110 DC Volts

Specifications & Standards

- Sealed to IP67
- Tested to ECE Reg. 10 (Radiated Emmissions Only)
- Australian Standards AS7531.1
- FRA Title 49 CFR 229.125 (a)
- FRA Title 49 CFR 229.125 (b)
- FRA Title 49 CFR 229.125 (d) (2)

Lamp Conforms To:

1) Photometry:	A) FRA 49 CFR 229.125 (a), (b), (d)(2)	
	B) Candella Output: High 260,000	Low: 26,000
2) Lamp Seal Rating:	IP66	
3) Electrical Specifications A:	Design Voltage:	24 - 110 VDC
	High Output Current Draw:	2.10A @ 24V, 0.75A @ 75V, 0.55A @ 110V
3) Electrical Specifications B:	Additional Railway Specifications: EN 55011: 2007, IEC 61000-4-5: 2014, EN61000-4-3, EN 61000-4-4: 2012, 1500V Chassis to ground short protection, EN 50155_2007: Electronic equipment used on rolling stock.	
4) JWS Product Standard:	Construction Specification. Note: No end of life warning	

Summary

- Designed for railroad locomotives using only high and low functionality (determined through a control line), the model 8770 can also be used as a ditch light application.
- Additional features include heavy-duty construction, solid-state electronics.
- LEDs are long-lasting, providing years of maintenance-free operation and lower life-cycle costs when compared to standard sealed beams or halogen lamps.



Contact Invision Sales for further information on the J.W. Speaker Locomotive range.

J.W. SPEAKER
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MODEL 8700 EVO 2 PRO

7" ROUND HEADLIGHT INSERTS

Low Beam | High Beam | Park | DRL
With Dual Burn® Technology

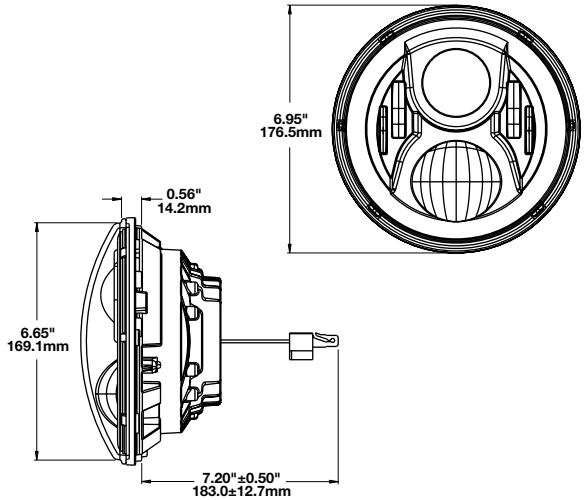
ADR APPROVED

PART NO:	BEZEL:
0556961	Black
0556951	Chrome



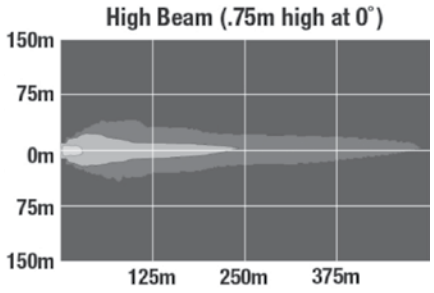
PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 4,170 (High); 2,340 (Low) Effective: 1,340 (High); 694 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	3.60A @ 12V DC (High Beam)
Bezel:	Black or Chrome
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	2D1 “PAR56” or 7" round headlights
Connector:	H4
Wiring:	Black Wire: Ground Yellow Wire: Low Beam White Wire: High Beam Red Wire: Park (Front Position) Blue Wire: Daytime Running Light
Standards:	Sealed to IP67 ECE Reg 7, 10, 87 & 112
Weight:	1.05kg
Pack Qty:	Single

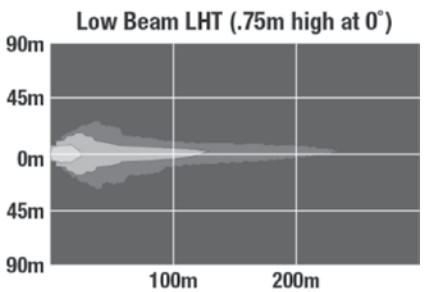


EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance
10+ Lux
1 Lux
0.25 Lux



Illuminance
10+ Lux
1 Lux
0.25 Lux



8700 EVO 2 PRO Mounting Options

Part No.	Description	Pack Qty
3156351	8700 - Mounting Ring Kit Assembly	Single
3156561	8700 - Panel Mount Bucket Assembly	Single
3157091	8700 - Side Mount Bucket Assembly	Single

MODEL 8710

7" ROUND HEADLIGHT INSERTS

High Beam Only

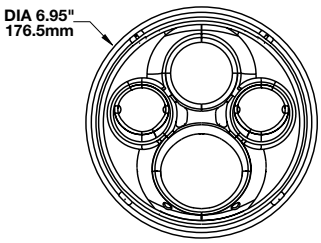
ADR APPROVED

PART NO:	BEZEL:
0550021	Black
0550011	Chrome



PRODUCT SPECIFICATIONS

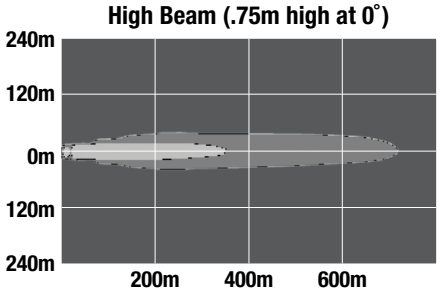
Colour Temp:	White 5000K
Lumen Output:	Raw: 3,300 Effective: 1,440
Input Voltage:	12V - 24V DC
Current Draw:	4.80A @ 12V DC 2.50A @ 24V DC
Bezel:	Black or Chrome
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	2D1 “PAR56” or 7" round headlights Optional Pedestal Mount: (×1) 3/8-16 × 1.5" Stainless Steel Screw
Connector:	H4
Wiring:	Black Wire: Ground White Wire: Positive
Standards:	Sealed to IP67 ECE Reg 112
Weight:	1.05kg
Pack Qty:	Single

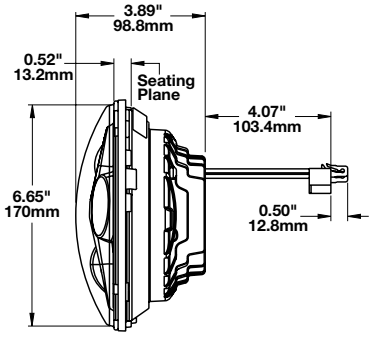


EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance

- 10+ Lux
- 1 Lux
- 0.25 Lux





8710 Mounting Options

Part No.	Description	Pack Qty
3156351	8700 - Mounting Ring Kit Assembly	Single
3156561	8700 - Panel Mount Bucket Assembly	Single
3157091	8700 - Side Mount Bucket Assembly	Single

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MODEL 8630 EVO

5¾" ROUND HEADLIGHT INSERT

Low Beam | High Beam | Park | DRL

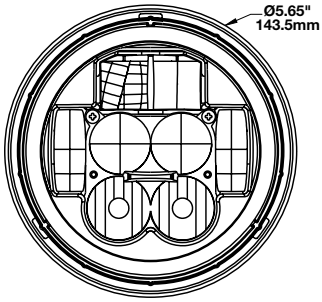
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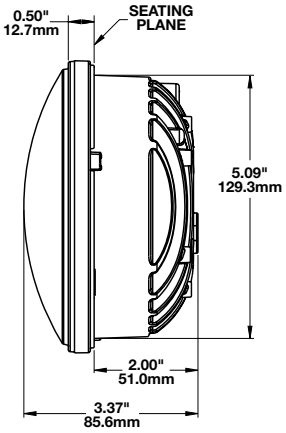
PART NO:
0549921



PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 2,925 (High); 2,025 (Low) Effective: 1,000 (High); 630 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	3.50A @ 12V DC (High Beam)
Bezel:	Chrome
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	PAR46 sealed beams or 5¾" round headlights
Connector:	Integral Connector in Housing simulating Delphi 12124107
Wiring:	**8630** Black Wire: Ground White Wire: High Beam Yellow Wire: Low Beam Red Wire: Park (Front Position) Purple Wire: Daytime Running Light **8631 & 8632 - Next Page** Orange / White Wire: Turn (Indicator)
Standards:	Sealed to IP67 ECE Reg 7, 87 & 112
Weight:	840 grams (8630 & 8631) 1.1kg per light (8632)
Pack Qty:	Single (8630 & 8631) Twin (8632)
Product Accessories:	Mounting Ring Kits (Page 85)

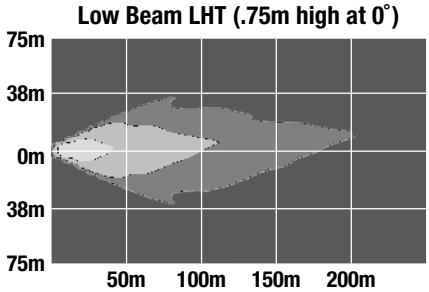




EFFECTIVE LUMENS ISOLUX CHARTS

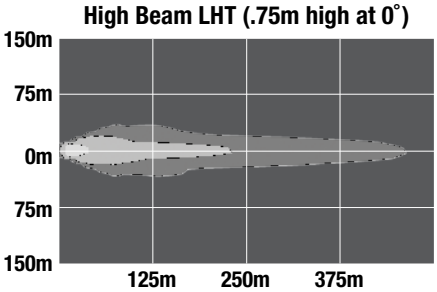
Illuminance
10+ Lux
1 Lux
0.25 Lux

Low Beam LHT (.75m high at 0˚)



Illuminance
10+ Lux
1 Lux
0.25 Lux

High Beam LHT (.75m high at 0˚)





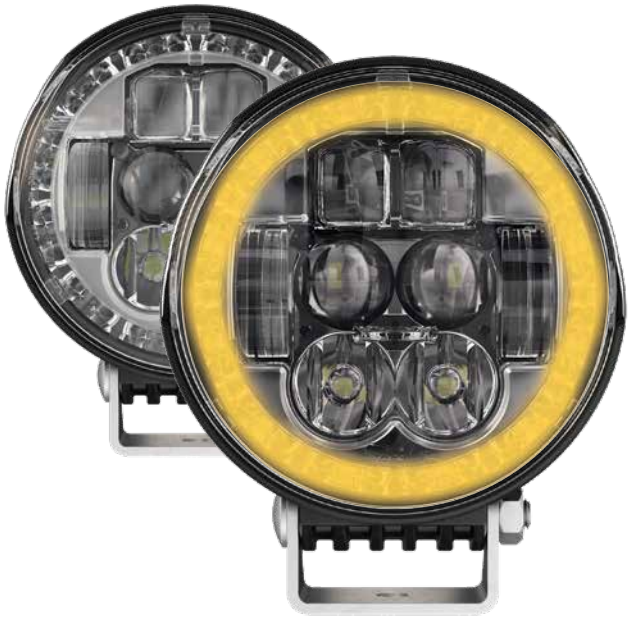
ADR APPROVED

MODEL 8631 EVO

8630 WITH TURN SIGNAL

Same Product Specifications

PART NO:
0551641



MODEL 8632 EVO

8630 WITH PEDESTAL MOUNT
& TURN SIGNAL - TWIN PACK

Same Product Specifications

PART NO:
0551973



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MODEL 6130 EVO

ADR APPROVED

4¾" ROUND HEADLIGHT INSERTS

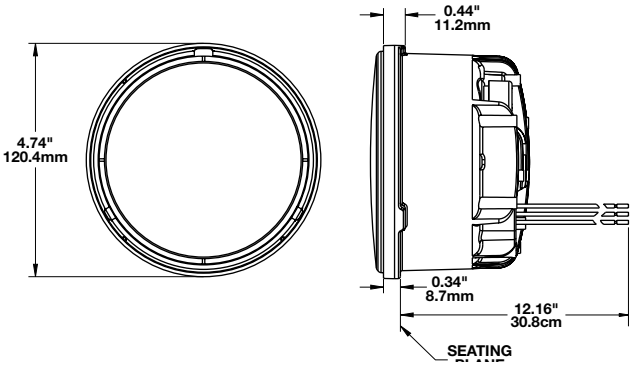
(Low Beam | DRL) & (High Beam | Park)

PART NO:	BEAM:
0549861	Low & DRL
0549871	High & Park



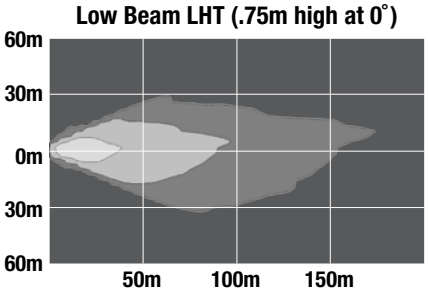
PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 1,760 (High); 1,690 (Low) Effective: 955 (High); 640 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	**0549861 -** 2.07A @ 12V DC (Low Beam) **0549871 -** 1.84A @ 12V DC (High Beam)
Bezel:	Black
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	PAR38 sealed beams
Connector:	12" Flying Leads
Wiring:	Black Wire: Ground White Wire: Low & High Beam Yellow Wire: DRL & Park (Front Position)
Standards:	Sealed to IP67 ECE Reg 112 ECE Reg 7 (High) ECE Reg 87(Low)
Weight:	700 grams
Pack Qty:	Single
Product Accessories:	Mounting Ring Kit (Page 85)

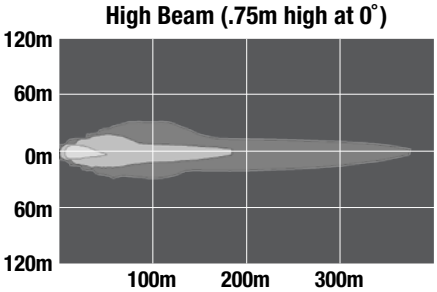


EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance
10+ Lux
1 Lux
0.25 Lux



Illuminance
10+ Lux
1 Lux
0.25 Lux



MODEL 6130 EVO

ADR APPROVED

4¾" ROUND HEADLIGHT INSERT

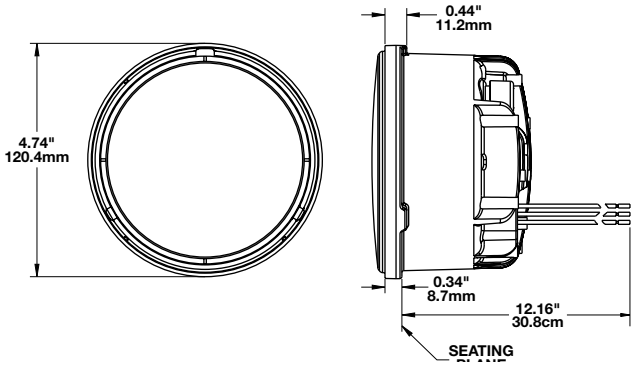
Low Beam | High Beam | Park

PART NO:
0549891



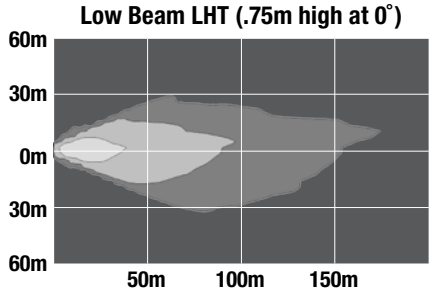
PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 2,230 (High); 1,330 (Low) Effective: 840 (High); 440 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	3.00A @ 12V DC (High Beam)
Bezel:	Black
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	PAR38 sealed beams
Connector:	12" Flying Leads
Wiring:	Black Wire: Ground White Wire: High Beam Yellow Wire: Low Beam Red Wire: Park (Front Position)
Standards:	Sealed to IP67 ECE Reg 7 & 112
Weight:	700 grams
Pack Qty:	Single
Product Accessories:	Mounting Ring Kit (Page 85)

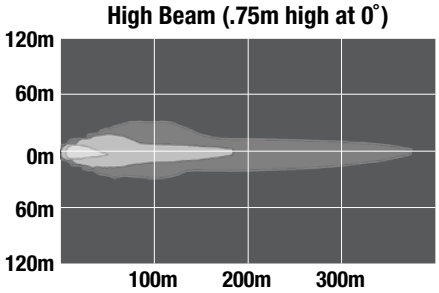


EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance
10+ Lux
1 Lux
0.25 Lux



Illuminance
10+ Lux
1 Lux
0.25 Lux



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MODEL 93

90mm ROUND HEADLIGHT INSERTS

(Low Beam) & (High Beam | Park)

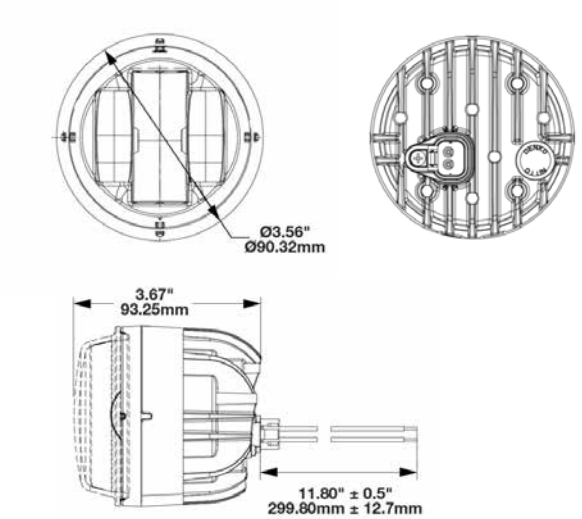
PART NO:	BEAM:
0553091	Low
0554381	High & Park

ADR APPROVED



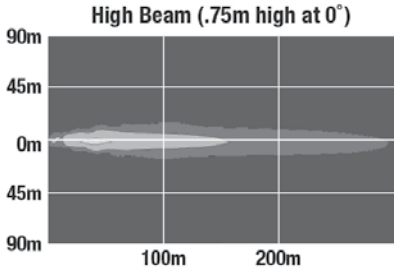
PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 630 (High); 1,910 (Low) Effective: 230 (High); 575 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	1.97A @ 12V DC (Low Beam) 0.80A @ 12V DC (High Beam)
Bezel:	Black
Lens Material:	Hard-Coated Polycarbonate
Body Material:	Aluminium
Mounting:	3 point flush mount or pedestal
Connector:	Deutsch DT04-4P
Wiring:	Red Wire: Positive Black Wire: Negative White Wire: Park (Front Position)
Standards:	Sealed to IP69K ECE Reg 112 ECE Reg 7 (0554381) FMVSS 108 Table XVIII (0554381)
Weight:	450 grams
Pack Qty:	Single

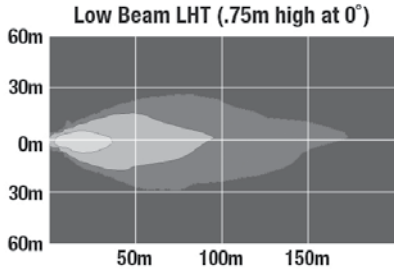


EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance
10+ Lux
1 Lux
0.25 Lux



Illuminance
10+ Lux
1 Lux
0.25 Lux





93 Mounting Options

Part No.	Description	Pack Qty
8001601	Single Lamp Pedestal Mount Bracket	Single
8001621	Double Lamp Pedestal Mount Bracket	Single
8001461	3-Point Mount for 1.5mm Thick Frame	Single
8001471	3-Point Mount for 3mm Thick Frame	Single

MODEL 93

90mm ROUND HEADLIGHT INSERTS

(Turn | DRL | Park) & (Fog Beam)

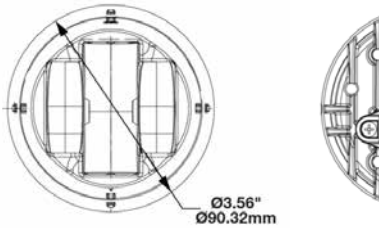
ADR APPROVED

PART NO:	BEAM:
0347941	Turn, DRL & Park
0556701	Fog



PRODUCT SPECIFICATIONS

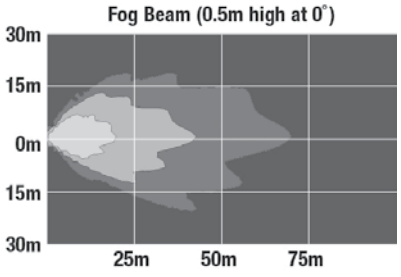
Colour Temp:	White 5000K	
Lumen Output:	Raw: 1,435 (Fog) Effective: 607 (Fog)	
Input Voltage:	12V - 24V DC	
Maximum Current Draw:	**0347941 -** 1.18A @ 12V DC (Turn Signal) **0556701 -** 1.25A @ 12V DC (Fog)	
Bezel:	N/A	
Lens Material:	Hard-Coated Polycarbonate	
Body Material:	Aluminium	
Mounting:	3 point flush mount or pedestal	
Connector:	Deutsch DT04-4P	
Wiring:	**0347941** Red Wire: DRL Black Wire: Ground Yellow Wire: Turn White Wire: Park	**0556701** Red Wire: Position Black Wire: Ground
Standards:	Sealed to IP69K **0347941** ECE Reg 6.01 ECE Reg 87 ECE Reg 7 SAE J2087 & 588 **0556701** ECE Reg 19.04 SAEJ583	
Weight:	450 grams	
Pack Qty:	Single	



EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance

- 10+ Lux
- 1 Lux
- 0.25 Lux





93 Mounting Options

Part No.	Description	Pack Qty
8001601	Single Lamp Pedestal Mount Bracket	Single
8001621	Double Lamp Pedestal Mount Bracket	Single
8001461	3-Point Mount for 1.5mm Thick Frame	Single
8001471	3-Point Mount for 3mm Thick Frame	Single

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MODEL 93 - NEW 5 IN 1

90mm ROUND HEADLIGHT INSERT

Low Beam | High Beam | Turn | Park | DRL

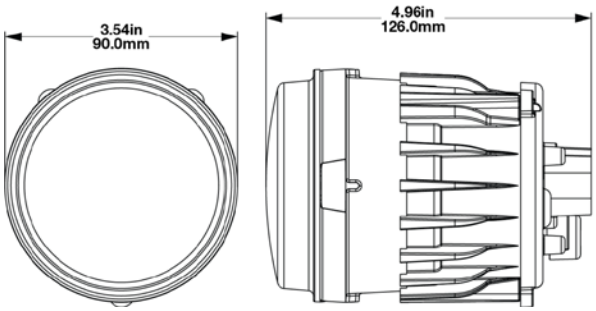
ADR APPROVED

PART NO:
0560381



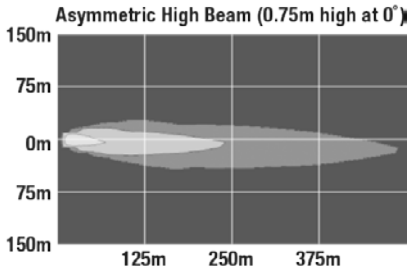
PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 1,827 (High); 1,325 (Low) Effective: 683 (High); 495 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	1.96A @ 12V DC (High Beam)
Bezel:	Black
Lens Material:	Hard-Coated Polycarbonate
Body Material:	Aluminium
Mounting:	3 point flush mount or pedestal
Connector:	Deutsch DT06-6S
Wiring:	Not supplied - See below for pin out diagram & wiring information
Standards:	Sealed to IP67 & IP69K ECE Reg 148 - A, 148 - 1b, 148 - RL, 149 - R, 149 - HC, 149 - R & 10
Weight:	540 grams
Pack Qty:	Single

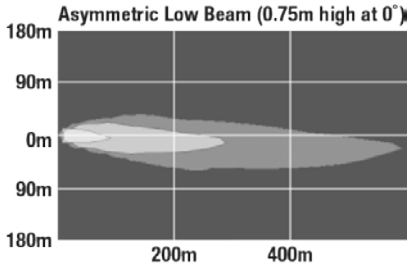


EFFECTIVE LUMENS ISOLUX CHARTS

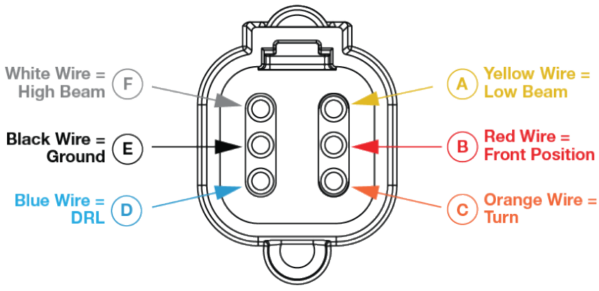
Illuminance
10+ Lux
1 Lux
0.25 Lux



Illuminance
10+ Lux
1 Lux
0.25 Lux



Pin Out Diagram & Wiring Information



93 Mounting Options

Part No.	Description	Pack Qty
8001601	Single Lamp Pedestal Mount Bracket	Single
8001621	Double Lamp Pedestal Mount Bracket	Single
8001461	3-Point Mount for 1.5mm Thick Frame	Single
8001471	3-Point Mount for 3mm Thick Frame	Single

MODEL 8820

4" × 6" RECTANGLE HEADLIGHT INSERT

Low Beam | High Beam | Park

PART NO:
0550281

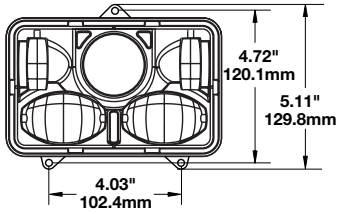
ADR APPROVED

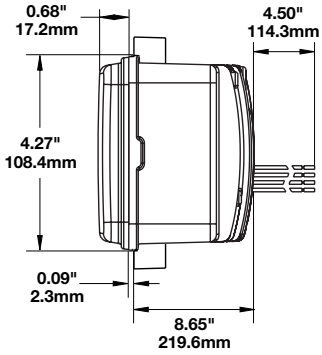


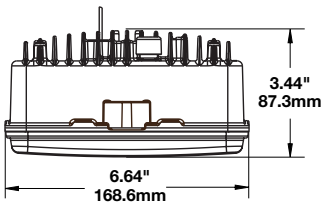
Note: This headlight insert does **NOT** fit conventional 4 × 6" headlight buckets

PRODUCT SPECIFICATIONS

Colour Temp:	White 5000K
Lumen Output:	Raw: 2,100 (High); 1,850 (Low) Effective: 755 (High); 645 (Low)
Input Voltage:	12V - 24V DC
Maximum Current Draw:	2.14A @ 12V DC (High Beam)
Bezel:	Black
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	3-Point Mount
Connector:	12" Flying Leads
Wiring:	Black Wire: Ground White Wire: High Beam Yellow Wire: Low Beam Red Wire: Park (Front Position)
Standards:	Sealed to IP67 ECE Reg 7 & 112 Military Standard: MIL-PRF-32243
Weight:	1.13kg
Pack Qty:	Single

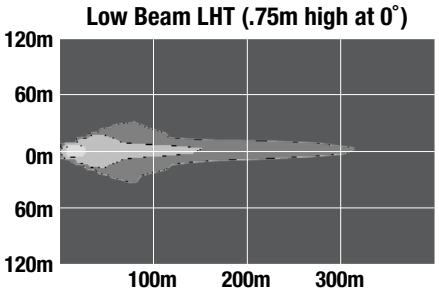




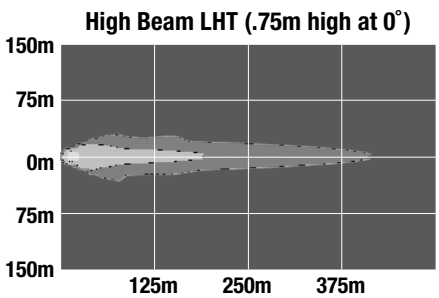


EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance
10+ Lux
1 Lux
0.25 Lux



Illuminance
10+ Lux
1 Lux
0.25 Lux



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MODEL 793

6" × 2" RECTANGLE SAFETY ZONE LIGHTS



12V - 36V

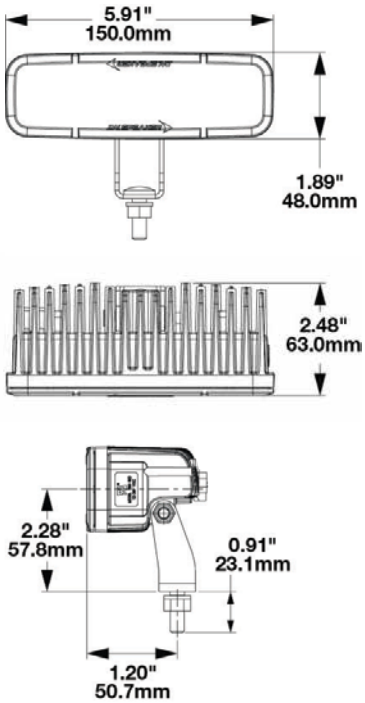
PART NO:	COLOUR:
1603761	Red
1603771	Blue
1603781	Amber

48V - 110V

PART NO:	COLOUR:
1603871	Red
1603881	Blue
1603891	Amber

PRODUCT SPECIFICATIONS

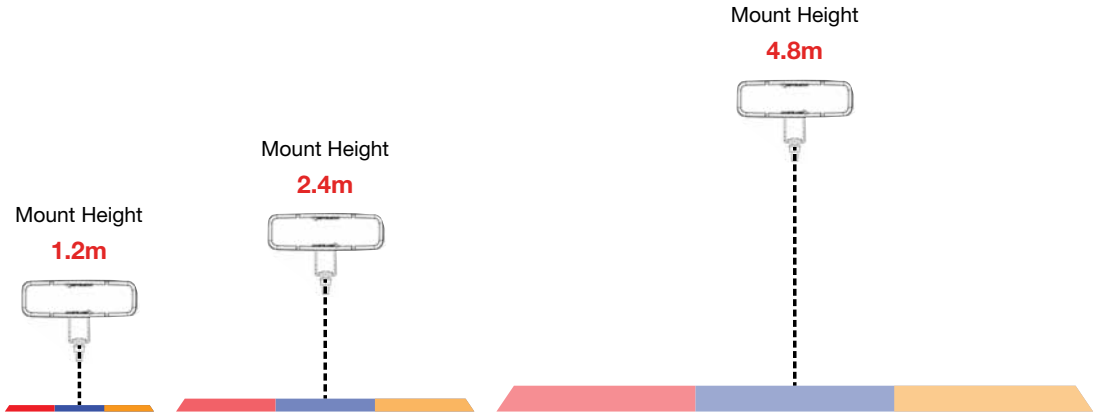
Colour Temp:	Red or Blue	
Lumen Output:	Raw: 496 Effective: 110	
Input Voltage:	12V - 36V or 48V - 110V	
Maximum Current Draw:	**12V - 36V** 1.6A @ 12V DC	**48V - 110V** 0.35A @ 48V DC
Lens Material:	Polycarbonate	
Body Material:	Aluminium	
Mounting:	Long Pedestal Bracket (×2) 5/16-18 × 1.00" Mounting Bolt	
Connector:	Deutsch DT04-2P & Deutsch DT06-2S (Harness included with flying leads)	
Wiring:	Red Wire: Positive Black Wire: Negative	
Standards:	Sealed to IP69K, UL Recognised & Tested to ECE Reg. 10 (Radiated Emissions Only)	
Weight:	390 grams	
Pack Qty:	Single	







MOUNTING HEIGHT & BEAM PERFORMANCE



Beam Dimensions:	**3m x 13cm**	**6m x 26cm**	**12m x 52cm**
Max Lux Red & Amber:	**1120**	**490**	**110**
Max Lux Blue:	**518**	**226**	**50**



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MODEL 210

147mm × 136mm
SOLAR FLASHER & WARNING LIGHTS

SOLAR POWERED

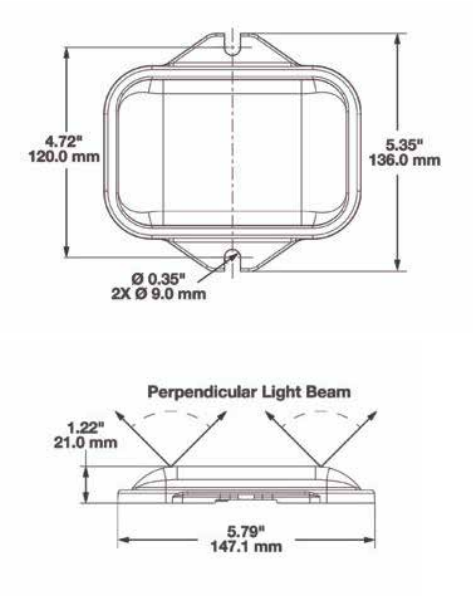
PART NO:	COLOUR:
0647031	Amber
0647041	Red



PRODUCT SPECIFICATIONS

Colour Temp:	Amber or Red
Candela Output:	11
Battery Run:	120 hours
Battery Charge:	6 hours
Lens Material:	Acrylic
Body Material:	Polycarbonate
Standards:	Sealed to IP69K
Weight:	180 grams
Pack Qty:	Single







CLICK BOND



210 Mounting Options

Part No.	Description	Pack Qty
8200491	210 Clickbond Mounting Kit M8-15mm	Single

MODEL 792

4" × 3" RECTANGLE WORKLIGHTS



12V - 24V

PART NO:	BEAM:
1603921	Pedestal
1603951	Panel

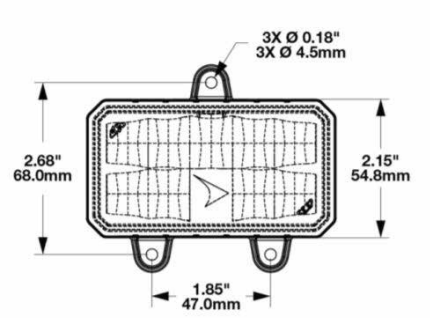
36V - 90V

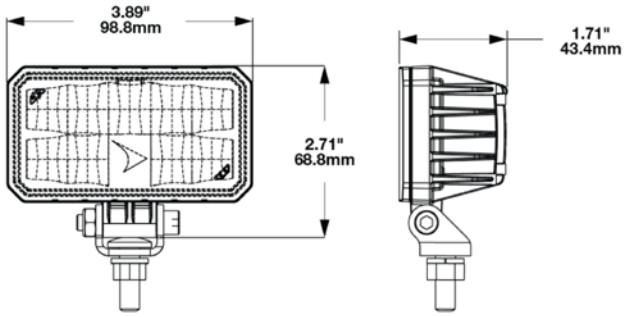
PART NO:	BEAM:
1603931	Pedestal



PRODUCT SPECIFICATIONS

Colour Temp:	White 5050K	
Lumen Output:	Raw: 3,630 Effective: 2,000	
Input Voltage:	12V - 24V or 36V - 90V DC	
Maximum Current Draw:	**12V - 24V** 2.2A @ 12V DC	**36V - 90V** 0.75A @ 36V DC
Lens Material:	Polycarbonate	
Body Material:	Aluminium	
Mounting:	Panel or Pedestal with (×1) 5/16"-18 × 1.00" Mounting Bolt Bracket	
Connector:	JAE Connector MX19A003S51 harness included with flying leads	
Wiring:	Red Wire: Positive Black Wire: Negative	
Standards:	Sealed to IP67 & IP69K	
Weight:	180 grams	
Pack Qty:	Single	

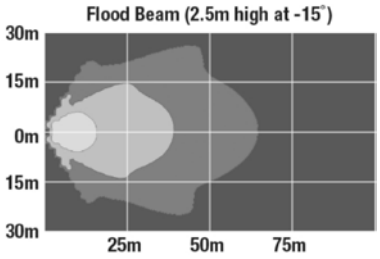




EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance

- 10+ Lux
- 1 Lux
- 0.25 Lux



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MODEL 892

4" × 4" RECTANGLE WORKLIGHT

PART NO:
1603961





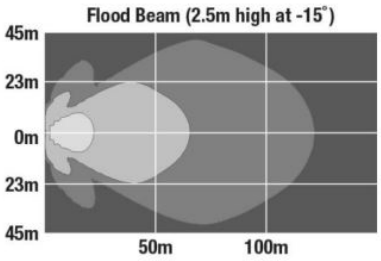
PRODUCT SPECIFICATIONS

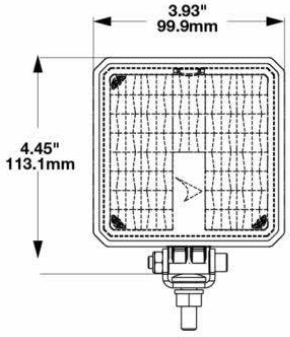
Colour Temp:	White 5050K
Lumen Output:	Raw: 6,372 Effective: 3,800
Input Voltage:	12V - 24V DC
Current Draw:	4.38A @ 12V DC 1.84A @ 24V DC
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	Universal Pedestal Mount (×1) 5/16"-18 × 1.00" Mounting Bolt Bracket
Connector:	Deutsch DT06-2S-E003
Wiring:	Red Wire: Positive Black Wire: Negative
Standards:	Sealed to IP67 & IP69K ECE Reg 10
Weight:	410 grams
Pack Qty:	Single

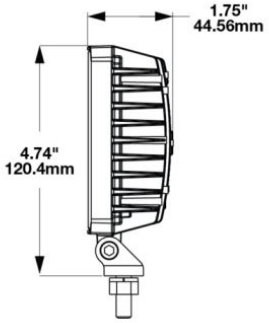
EFFECTIVE LUMENS ISOLUX CHARTS

Illuminance

- 10+ Lux
- 1 Lux
- 0.25 Lux









MODEL 893

8" × 3" RECTANGLE WORKLIGHT

PART NO:
1300671







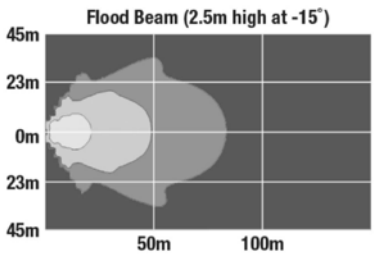
PRODUCT SPECIFICATIONS

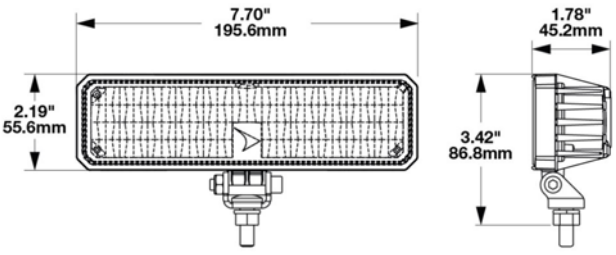
Colour Temp:	White 5050K
Lumen Output:	Raw: 7,120 Effective: 3,700
Input Voltage:	12V - 24V DC
Current Draw:	4.5A @ 12V DC 1.8A @ 24V DC
Lens Material:	Polycarbonate
Body Material:	Aluminium
Mounting:	Pedestal with (×1) 5/16"-18 × 1.00" Mounting Bolt Bracket
Connector:	Deutsch DT06-2S-E003
Wiring:	Red Wire: Positive Black Wire: Negative
Standards:	Sealed to IP67 & IP69K
Weight:	460 grams
Pack Qty:	Single

EFFECTIVE LUMENS ISOLUX CHART

Illuminance

- 10+ Lux
- 1 Lux
- 0.25 Lux







Notes

FOUNDED IN

1935

J.W. SPEAKER®

1935 – 2024



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Edition 2. Release date November 2024

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