# Norman Lamps, Inc.
## Aircraft Lighting Catalog

*"Serving the Aviation Industry Since 1985"*

Design ● Manufacturing ● Distribution








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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Logo/Tail Light
- 50T4Q/CL/SC14V
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-4 |
| Base | S.C. Indexing Bayonet |
| Filament | CC-6, Horizontal |
| Voltage | 14 |
| Wattage | 50 |
| Rated Life | 2,000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.65" (42mm) |
| Maximum Bulb Diameter | 0.40" (10mm) |
| Light Center Length | 1.03" (26mm) |

**50T4Q/CL/SC14V**
**14V 50W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 1,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 105 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| DA-15 | *DeVore Aviation* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Computer Aligned Filament Centering
- Superior Lumen Maintenance
- **BAY15S** Indexing Bayonet Base

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
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- Aircraft Logo/Tail Light
- 75T4Q/CL/SC28V
- Quartz-Halogen

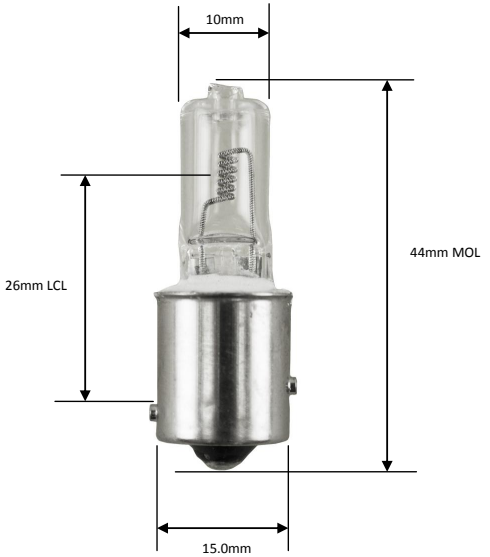
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-4 |
| Base | S.C. Indexing Bayonet |
| Filament | CC-8, Axial |
| Voltage | 28 |
| Wattage | 75 |
| Rated Life | 2,000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.74" (44mm) |
| Maximum Bulb Diameter | 0.40" (10mm) |
| Light Center Length | 1.03" (26mm) |

**75T4Q/CL/SC28V**
**28V 75W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 1,500 |
| Initial Lumens per Watt | 20 |
| MSCP | 135 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| DA-27 | *DeVore Aviation* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Computer Aligned Filament Centering
- Superior Lumen Maintenance
- **BAY15S** Indexing Bayonet Base

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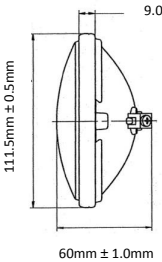
- Aircraft Spot Light
- H7604; Q50PAR36/SP/12.8V
- Quartz-Halogen

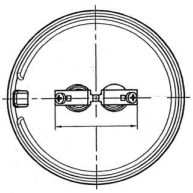
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 12.8 |
| Wattage | 50 |
| Rated Life | 100 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 100,000 |
| Beam Spread-Horizontal | 7° – 10.0% |
| Beam Spread-Vertical | 5° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**H7604 12.8V 50W**
**SPOT LAMP**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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**NORMAN Lamps, Inc.**
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- Aircraft Flood Light
- H7606; Q50PAR36/FL/12.8V
- Quartz-Halogen

**NLI**
**H7606 12.8V 50W**
**FLOOD LAMP**

## GENERAL SPECIFICATIONS

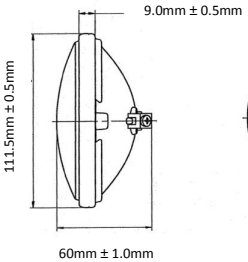
| | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 12.8 |
| Wattage | 50 |
| Rated Life | 400 Hrs. |
| Primary Application | Aircraft |

## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Max. Beam Candlepower | 1,000 |
| Beam Spread-Horizontal | 80° – 10.0% |
| Beam Spread-Vertical | 30° – 10.0% |
| General Beam Pattern | Flood |







## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

## SPECIAL FEATURES

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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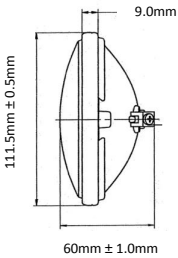
- Aircraft Landing Light
- Q4509; Q100PAR36/SP7/13V
- Quartz-Halogen

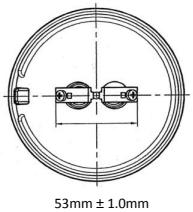
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-8 Ultra |
| Voltage | 13 |
| Wattage | 100 |
| Rated Life | 100 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 140,000 |
| Beam Spread-Horizontal | 7° – 10.0% |
| Beam Spread-Vertical | 7° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**Q4509 13V 100W**
**AIRCRAFT LANDING**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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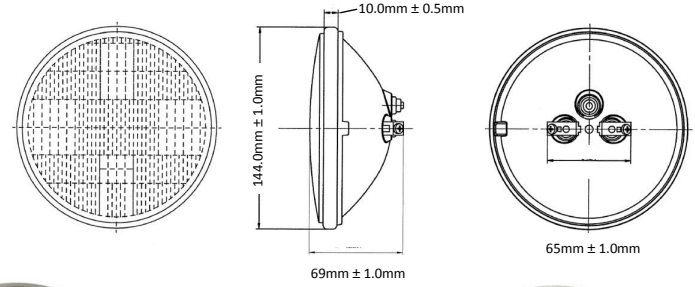
- Aircraft Taxiing Light
- Q4554; Q450PAR46/ST2/WFL28V
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra™ |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 100 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.70" (69mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**Q4554 28V 450W**
**AIRCRAFT TAXIING**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 65,000 |
| Beam Spread-Horizontal | 50.0° – 10.0% |
| Beam Spread-Vertical | 11.0° – 10.0% |
| General Beam Pattern | Flood |






CC-6 Ultra™ / Quartz Halogen

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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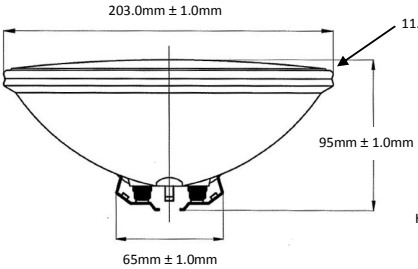
- Aircraft Landing Light
- Q4559; NSN 6240-00-145-4161
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR64 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra |
| Voltage | 28 |
| Wattage | 600 |
| Rated Life | 100 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 600,000 |
| Beam Spread-Horizontal | 12.0° – 10.0% |
| Beam Spread-Vertical | 8.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.74" (95mm) |
| Maximum Bulb Diameter | 8.00" (203.0mm) |
| Bulb Edge Width | 0.44" (11.0mm) |

**NLI**
**Q4559 28V 600W**
**AIRCRAFT LANDING**






Heavy Duty CC-6 Ultra, Filament Support



| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 6 Lamps | 14Lbs. | 22"x14½"x8" |
| Inner pack | N/A | N/A | N/A |
| Unit Pack | 1 Lamp | 2Lbs. | 7"x7"x7" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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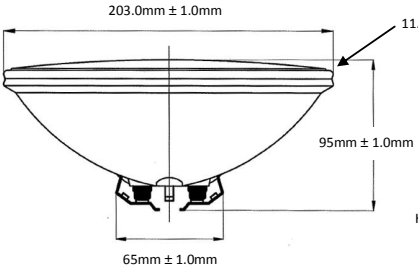
- Aircraft Landing Light
- Q4559X; Q600PAR64/SP11/28V
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR64 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra |
| Voltage | 28 |
| Wattage | 600 |
| Rated Life | 100 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 765,000 |
| Beam Spread-Horizontal | 11.0° – 10.0% |
| Beam Spread-Vertical | 7.5° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.74" (95mm) |
| Maximum Bulb Diameter | 8.00" (203.0mm) |
| Bulb Edge Width | 0.44" (11.0mm) |

**NLI**
**Q4559X 28V 600W**
**AIRCRAFT LANDING**





Heavy Duty CC-6 Ultra, Filament Support







| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 6 Lamps | 14Lbs. | 22"x14½"x8" |
| Inner pack | N/A | N/A | N/A |
| Unit Pack | 1 Lamp | 2Lbs. | 7"x7"x7" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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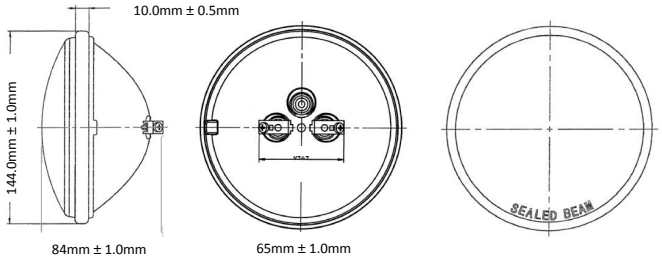
- Aircraft Spot Light
- Q4566; Q450PAR46/2ST/SP-28V
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra™ |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 1000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 150,000 |
| Beam Spread-Horizontal | 16.0° – 10.0% |
| Beam Spread-Vertical | 12.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.30" (84mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**Q4566 28V 450W**
**AIRCRAFT SPOT**






CC-6 Ultra™ / Quartz Halogen

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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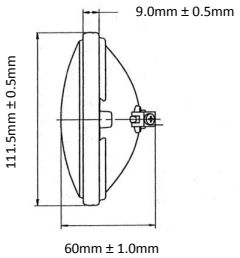
- Aircraft Landing Light
- Q4596; Q250PAR36/SP11/28V
- Quartz-Halogen

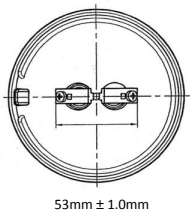
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-8 Ultra |
| Voltage | 28 |
| Wattage | 250 |
| Rated Life | 100 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 160,000 |
| Beam Spread-Horizontal | 11° – 10.0% |
| Beam Spread-Vertical | 12° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**Q4596 28V 250W**
**AIRCRAFT LANDING**













| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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*Design ● Manufacturing ● Distribution*

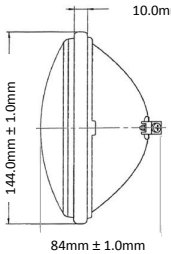
- Aircraft Flood Light
- Q4597; NSN 6240-00-163-5143
- Quartz-Halogen

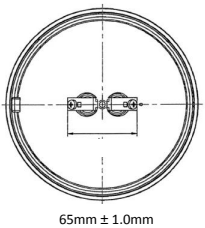
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra™ |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 1000 Hrs. |
| Primary Application | Aircraft |

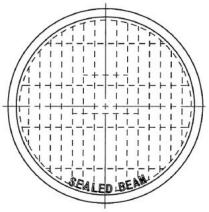
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 16,000 |
| Beam Spread-Horizontal | 60.0° – 10.0% |
| Beam Spread-Vertical | 35.0° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.32" (84mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**Q4597 28V 450W**
**AIRCRAFT FLOOD**












CC-6 Ultra™ / Quartz Halogen

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
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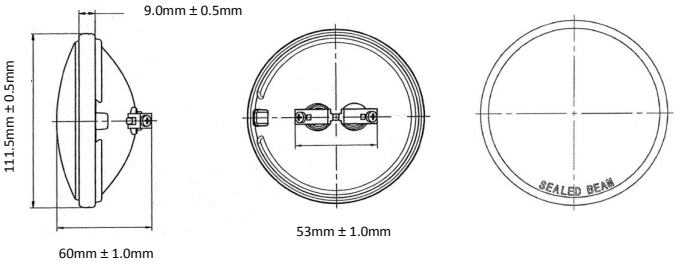
- Aircraft Landing Light
- Q4631; Q250PAR36/VNSP/13V
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | C-6 Ultra™ |
| Voltage | 13 |
| Wattage | 250 |
| Rated Life | 500 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 80,000 |
| Beam Spread-Horizontal | 13° – 10.0% |
| Beam Spread-Vertical | 12° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**Q4631 13V 250W**
**AIRCRAFT LANDING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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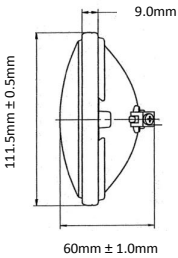
- Aircraft Logo Light
- Q4632; Q250PAR36/SP14/13V
- Quartz-Halogen

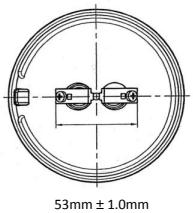
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra™ |
| Voltage | 13 |
| Wattage | 250 |
| Rated Life | 500 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 75,000 |
| Beam Spread-Horizontal | 14° – 10.0% |
| Beam Spread-Vertical | 12° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**Q4632 13V 250W**
**AIRCRAFT LOGO**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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**NORMAN Lamps, Inc.**
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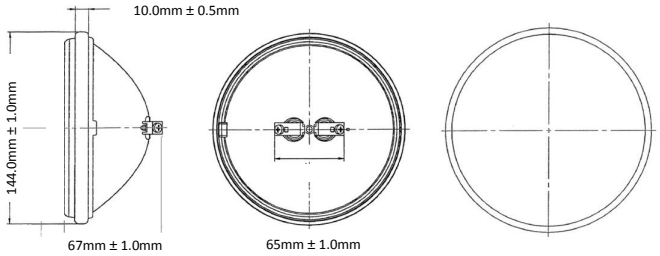
- Aircraft Landing Light
- Q4681; NSN 6240-00-372-4841
- Quartz-Halogen

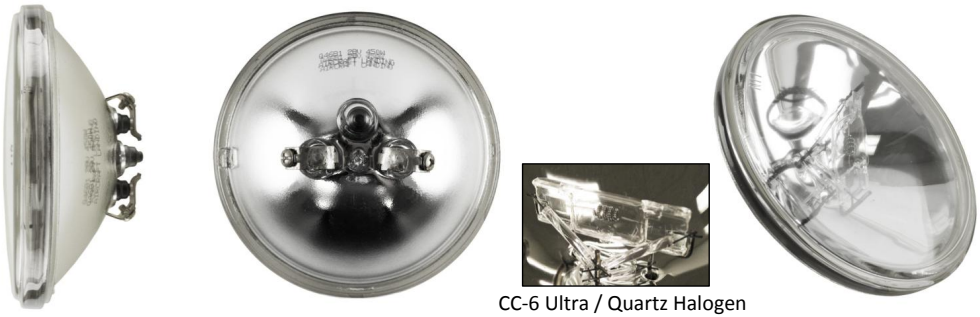
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 Ultra |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 50 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 310,000 |
| Beam Spread-Horizontal | 15.0° – 10.0% |
| Beam Spread-Vertical | 9.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.65" (67mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**Q4681 28V 450W**
**AIRCRAFT LANDING**



CC-6 Ultra / Quartz Halogen

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

**NORMAN LAMPS, INC. (NLI)**

Every NLI aircraft lamp is manufactured to exacting industry and military specifications. Physical, electrical and optical specifications and tolerances meet or exceed these standards. NLI certifies all aircraft lamps we manufacture to be free from any and all manufacturing and specification defects. Each NLI aircraft lamp is pre-tested and fully inspected before they are made available for distribution. For additional information visit: www.AircraftLightingDirect.com NLI/2010

**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 8GH002473-08
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 8 |
| Wattage | 10 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 160 |
| Initial Lumens per Watt | 20 |
| MSCP | 11 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| NLI-8GH002473-08 | *Norman* |
| | |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH002473-08**
**8V 10W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
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- Aircraft Reading Light
- 8GH003912-06
- Quartz-Halogen

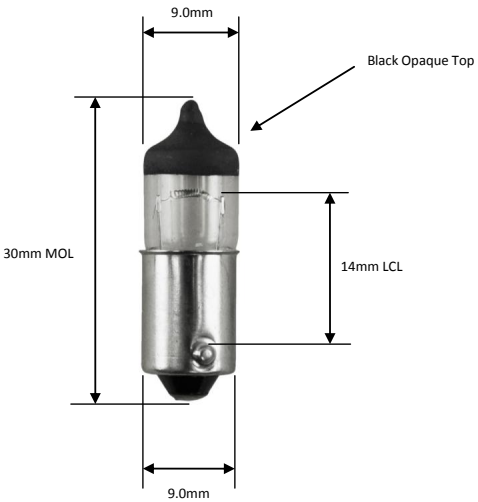
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 6 |
| Wattage | 12 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH003912-06**
**6V 12W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 240 |
| Initial Lumens per Watt | 20 |
| MSCP | 12 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| NLI-8GH003912-06 | *Norman* |
| 998502-17 | *Welch Allyn* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Black Opaque Top

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
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- Aircraft Reading Light
- 8GH004554-28
- Quartz-Halogen

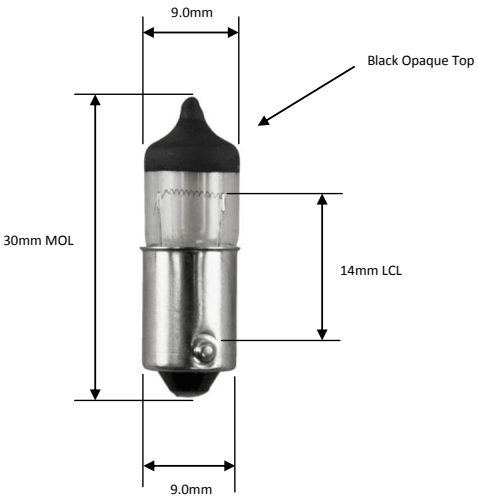
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 11.5 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH004554-28**
**28V 11.5W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 230 |
| Initial Lumens per Watt | 20 |
| MSCP | 14.2 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| NLI-8GH004554-28 | *Norman* |
| 998502-7 | *Welch Allyn* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Black Opaque Top

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 8GH005123-06
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 6 |
| Wattage | 4 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 80 |
| Initial Lumens per Watt | 20 |
| MSCP | 6.8 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| NLI-8GH005123-06 | *Norman* |
| | |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH005123-06**
**6V 4W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
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- Aircraft Reading Light
- 8GH005448-28
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 11.5 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 230 |
| Initial Lumens per Watt | 20 |
| MSCP | 14 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| NLI-8GH005448-28 | *Norman* |
| 998502-2 | *Welch Allyn* |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH005448-28**
**28V 11.5W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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- Aircraft Reading Light
- 8GH005549-28
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 10 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH005549-28**
**28V 10W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 200 |
| Initial Lumens per Watt | 20 |
| MSCP | 9.8 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| NLI-8GH005549-28 | *Norman* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 8GH005597-12
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 12 |
| Wattage | 12 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

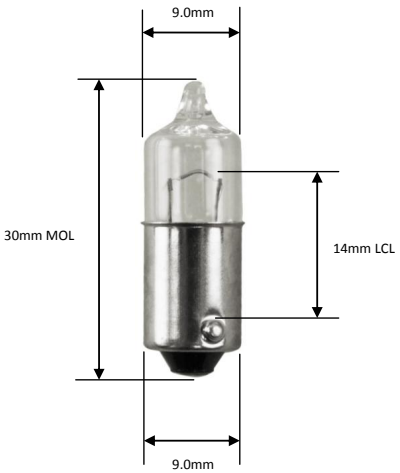
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 240 |
| Initial Lumens per Watt | 20 |
| MSCP | 13 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| NLI-8GH005597-12 | *Norman* |
| | |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH005597-12**
**12V 12W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 8GH005678-06
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 6 |
| Wattage | 10 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 200 |
| Initial Lumens per Watt | 20 |
| MSCP | 10 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| NLI-8GH003912-06 | *Norman* |
| 998502-18 | *Welch Allyn* |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**8GH005678-06**
**6V 10W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 8GH007429-28
- Quartz-Halogen

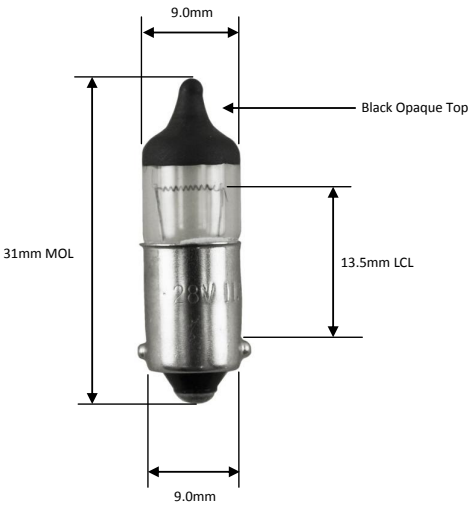
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 11.5 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 230 |
| Initial Lumens per Watt | 20 |
| MSCP | 18 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.23" (31mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.53" (13.5mm) |

**8GH007429-28**
**28V 11.5W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 15Lbs. | 26¾"x10½"x12½" |
| Inner pack | 100 Lamps | 1.5Lbs. | 10¾"x5¾"x5" |
| Unit Pack | 1 Lamp | 0.25oz. | 2¾"x⅞"x⅞" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Black Opaque Top

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Signal Light
- NLI-8GH409570-28; LN9334-28V50W
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3½ |
| Base | Special Bi-Pin |
| Filament | CC-8, Axial |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 1,000 Hrs. |
| Primary Application | Aircraft |

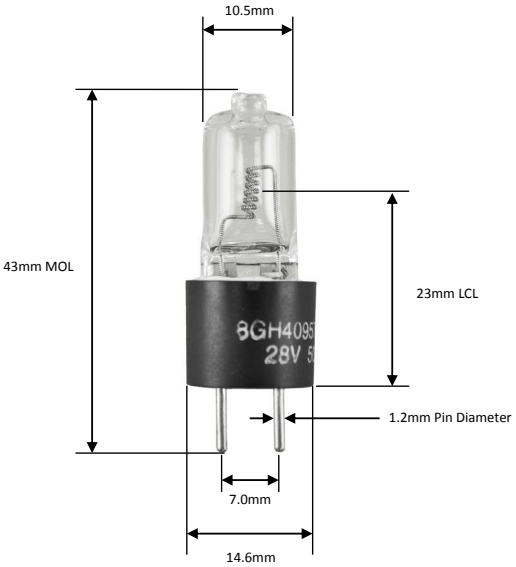
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 1,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 105 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| ML-8GH409570-28 | *Micro Lamps* |
| NLI-8GH409570-28 | *Norman* |
| 8GH409570-28 | *Goodrich* |
| LN9334-28V50W | *Airbus* |
| | |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.69" (43mm) |
| Maximum Bulb Diameter | 0.42" (10.5mm) |
| Light Center Length | 0.90" (23mm) |

**8GH409570-28**
**28V 50W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 49Lbs. | 26"x26"x14" |
| Inner pack | 50 Lamps | 1.2Lb. | 7"x7"x4" |
| Unit Pack | 1 Lamp | 0.30oz. | 3"x1¼"x1½" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Ceramic Base with Stainless Pins

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**

*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**

*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- 692; Q25T3.5/DC/28V
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3½ |
| Base | D.C. Bayonet |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 25 |
| Rated Life | 800 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.50" (38mm) |
| Maximum Bulb Diameter | 0.42" (10.5mm) |
| Light Center Length | 0.87" (22mm) |

**692**
**28V 25W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 500 |
| Initial Lumens per Watt | 20 |
| MSCP | 250 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| NLI-692 | *Norman* |
| W692 | *Whelen* |
| 34-0270398-9H | *Whelen* |
| 692 | *Grimes* |
| | |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2½"x1⅛"x1⅛" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- High Temperature Brass Solder Contacts

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft; Low Voltage Light
- 767; Q12T2.5MB6V50H767
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-2½ |
| Base | Miniature Bayonet |
| Filament | C-6 |
| Voltage | 6 |
| Wattage | 12 |
| Rated Life | 50 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 240 |
| Initial Lumens per Watt | 20 |
| MSCP | 19 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.23" (31mm) |
| Maximum Bulb Diameter | 0.32" (7.9mm) |
| Light Center Length | 0.58" (15mm) |

**767**
**6V 12W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 15Lbs. | 26¾"x10½"x12½" |
| Inner pack | 100 Lamps | 1.5Lbs. | 10¾"x5¾"x5" |
| Unit Pack | 1 Lamp | 0.25oz. | 2¾"x⅞"x⅞" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- High Temperature Solder Contacts

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- 1912; NSN 6240-00-182-7717; Q125T3.5/DC/AX/12V
- Quartz-Halogen

**1912**
**12V 125W**

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3½ |
| Base | D.C. Bayonet |
| Filament | C-8, Axial |
| Voltage | 12 |
| Wattage | 125 |
| Rated Life | 800 Hrs. |
| Primary Application | Aircraft |

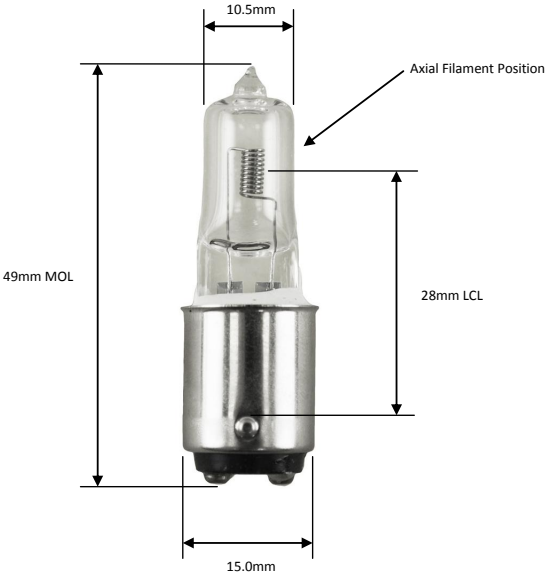
## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 1.93" (49mm) |
| Maximum Bulb Diameter | 0.42" (10.5mm) |
| Light Center Length | 1.10" (28mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Initial Lumens | 2,500 |
| Initial Lumens per Watt | 20 |
| MSCP | 230 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




## CROSS REFERENCE

| | |
|---|---|
| ML-1912 | *Micro Lamps* |
| NLI-1912 | *Norman* |
| 12V125W | *Universal* |
| C17312-3 | *Cessna* |
| 40-0028 | *Aeroflash* |
| 40-5A | *Gulfstream* |
| | |
| | |

## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

## SPECIAL FEATURES

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Axial Filament Positioning
- High Temperature Brass Solder Contacts

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**NORMAN Lamps, Inc.**
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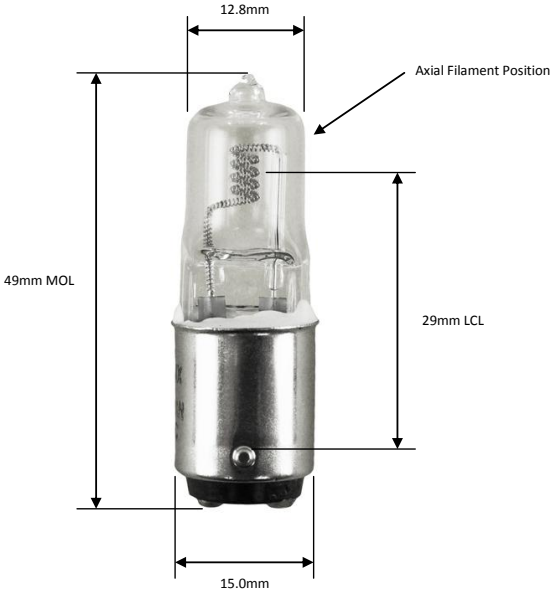
- Aircraft Navigation/Signal Light
- 1924X; NSN 6240-00-898-9190; Q150T4/DC/AX/28V
- Quartz-Halogen

**1924X**
**28V 150W**

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-4 |
| Base | D.C. Bayonet |
| Filament | CC-8, Axial |
| Voltage | 28 |
| Wattage | 150 |
| Rated Life | 750 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.93" (49mm) |
| Maximum Bulb Diameter | 0.50" (12.8mm) |
| Light Center Length | 1.15" (29mm) |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 3,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 290 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |




**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| ML-1924X | *Micro Lamps* |
| 1924X | *Norman* |
| 28V150W | *Universal* |
| 34-0226010-91 | *Whelen* |
| C17312-1 | *Cessna* |
| 40-0003 | *Aeroflash* |
| 40-6A | *Gulfstream* |
| 369A-4562-5 | *Hughes* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Axial Filament Positioning
- High Temperature Brass Solder Contacts

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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- Aircraft Marker Light
- 1939X; NSN 6420-00-225-5128
- Krypton Gas Filled

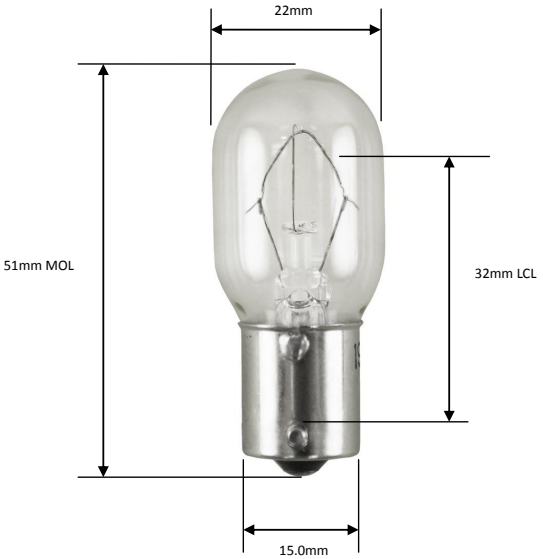
**1939X**
**28V 50W**

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-7 |
| Base | S.C. Bayonet |
| Filament | C-2V Supported |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft Beacon |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.0" (51mm) |
| Maximum Bulb Diameter | 0.87" (22mm) |
| Light Center Length | 1.26" (32mm) |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 942 |
| Initial Lumens per Watt | 18 |
| MSCP | 75 |
| General Light Pattern | 360° |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| ML-1939X | *Micro Lamps* |
| U1939X | *Universal* |
| GE-1939X | *General Electric* |
| WRM-1939 | *Whelen* |
| 1939X | *Cessna* |
| 751-457 | *Piper* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 28Lbs. | 16"x16"x9½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2½"x1⅛"x1⅛" |

**SPECIAL FEATURES**

- Long Life Filament, Supported
- Superior Lumen Maintenance
- Precise Filament Positioning
- Rough Service Rated

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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*Design ● Manufacturing ● Distribution*

- Aircraft Marker Light
- 1940; NSN 6420-00-946-4819
- Krypton Gas Filled

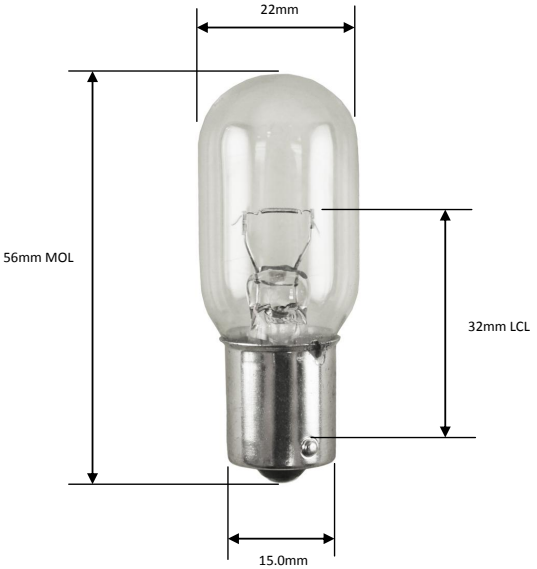
**1940**
**14V 50W**

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-7 |
| Base | S.C. Bayonet |
| Filament | C-6 |
| Voltage | 14 |
| Wattage | 50 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft Beacon |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.2" (56mm) |
| Maximum Bulb Diameter | 0.87" (22mm) |
| Light Center Length | 1.26" (32mm) |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 942 |
| Initial Lumens per Watt | 18 |
| MSCP | 75 |
| General Light Pattern | 360° |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| ML-1940 | *Micro Lamps* |
| U1940 | *Universal* |
| GE-1940 | *General Electric* |
| WRM-1940 | *Whelen* |
| 1940 | *Cessna* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 28Lbs. | 16"x16"x9½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2½"x1⅛"x1⅛" |

**SPECIAL FEATURES**

- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Rough Service Rated

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**NORMAN Lamps, Inc.**

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*Design ● Manufacturing ● Distribution*

- Aircraft Navigation/Signal Light
- 1959; NSN 6240-00-885-4049; JFD28V150W/TAB
- Quartz-Halogen

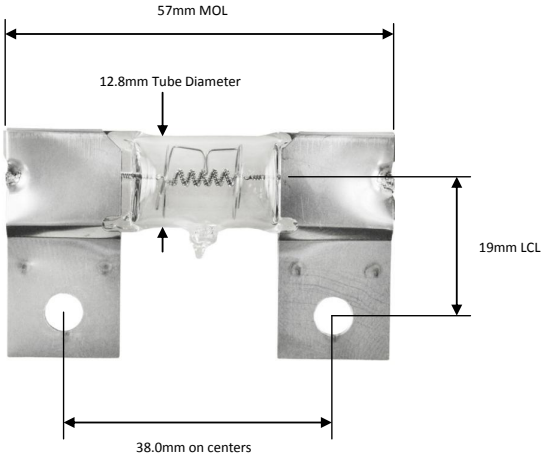
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-4 |
| Base | TAB |
| Filament | CC-8 Supported |
| Voltage | 28 |
| Wattage | 150 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.25" (57mm) |
| Maximum Bulb Diameter | 0.50" (12.8mm) |
| Light Center Length | 0.75" (19mm) |

**1959**
**28V 150W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 3,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 240 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** Photos are enlarged to show detail.




| CROSS REFERENCE | |
|---|---|
| ML-1959 | *Micro Lamps* |
| 1959 | *Norman* |
| 1959 | *G.E.* |
| | |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x14" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x3" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1½"x1½" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Advanced Filament Supports

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**NORMAN Lamps, Inc.**

*Aircraft Lamp Division*

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*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- 1978X; NSN 6240-00-007-5214
- Quartz-Halogen

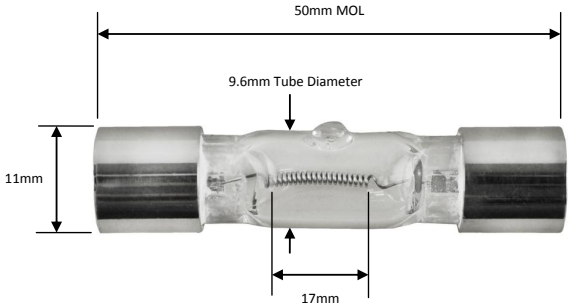
**1978X**
**10V 100W**

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | End Caps, 11mm |
| Filament | C-8 |
| Voltage | 10 |
| Wattage | 100 |
| Rated Life | 2,000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.97" (50mm) |
| Maximum Bulb Diameter | 0.38" (9.60mm) |
| Filament Length | 0.67" (17.0mm) |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 2,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 130 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** Photos are enlarged to show detail.




| CROSS REFERENCE | |
|---|---|
| ML-1978X | *Micro Lamps* |
| NLI-1978X | *Norman* |
| GE-1978X | *G.E.* |
| | |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 500 Lamps | 12Lbs. | 23"x10"x6" |
| Inner pack | 50 Lamps | 1.1Lbs. | 9"x4½"x2½" |
| Unit Pack | 1 Lamp | 0.36oz. | 2½"x¾"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Vibration Resistant
- Precise Filament Positioning

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- 1982; NSN 6240-01-057-0964; QBA15S2875/AX
- Quartz-Halogen

**1982**
**28V 75W**

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | S.C. Bayonet |
| Filament | C-8, Axial |
| Voltage | 28 |
| Wattage | 75 |
| Rated Life | 1,000 Hrs. |
| Primary Application | Aircraft |

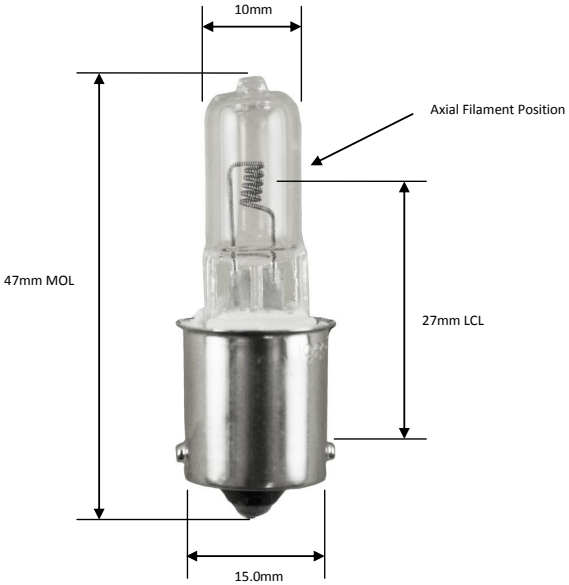
## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 1.85" (47mm) |
| Maximum Bulb Diameter | 0.40" (10mm) |
| Light Center Length | 1.07" (27mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Initial Lumens | 1,500 |
| Initial Lumens per Watt | 20 |
| MSCP | 120 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




## CROSS REFERENCE

| | |
|---|---|
| ML-1982 | *Micro Lamps* |
| NLI-1982 | *Norman* |
| U1982 | *Universal* |
| GE-1982 | *General Electric* |
| 761-214 | *Piper* |
| | |

## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

## SPECIAL FEATURES

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Axial Filament Positioning

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- 1982SP; NSN 6240-01-294-8600; QBA15S2875/HZ
- Quartz-Halogen

**1982SP**
**28V 75W**

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | S.C. Bayonet |
| Filament | CC-6, Horizontal |
| Voltage | 28 |
| Wattage | 75 |
| Rated Life | 2,000 Hrs. |
| Primary Application | Aircraft |

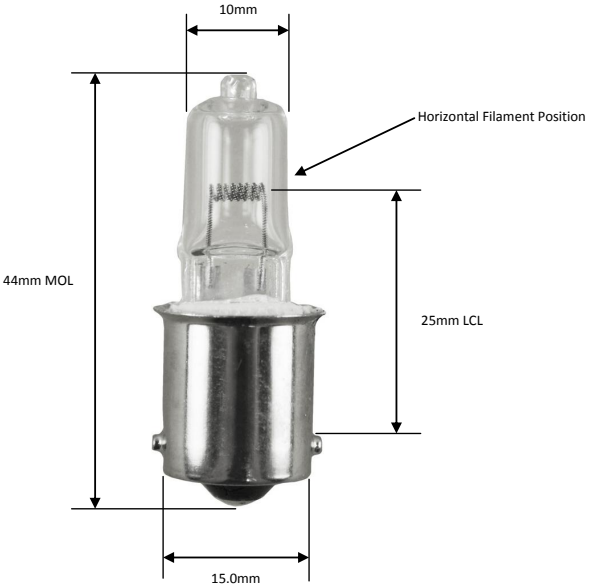
## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 1.74" (44mm) |
| Maximum Bulb Diameter | 0.40" (10mm) |
| Light Center Length | 0.99" (25mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Initial Lumens | 1,500 |
| Initial Lumens per Watt | 20 |
| MSCP | 120 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




## CROSS REFERENCE

| | |
|---|---|
| ML-1982SP | *Micro Lamps* |
| NLI-1982SP | *Norman* |
| U1982-SP | *Universal* |
| GE-1982SP | *General Electric* |
| 761-214 | *Piper* |
| LP-1982SP | *Grimes* |

## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

## SPECIAL FEATURES

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Horizontal Filament Positioning

## NORMAN LAMPS, INC. (NLI)

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**NORMAN Lamps, Inc.**

*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**

*Design ● Manufacturing ● Distribution*

- Aircraft Navigation/Signal Light
- 1987; NSN 6240-00-898-9190; Q150T4/DC/HZ/28V
- Quartz-Halogen

**1987**
**28V 150W**

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-4 |
| Base | D.C. Bayonet |
| Filament | CC-6, Horizontal |
| Voltage | 28 |
| Wattage | 150 |
| Rated Life | 750 Hrs. |
| Primary Application | Aircraft |

## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 1.93" (49mm) |
| Maximum Bulb Diameter | 0.50" (12.8mm) |
| Light Center Length | 1.15" (29mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Initial Lumens | 3,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 290 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** Photos are enlarged to show detail.




## CROSS REFERENCE

| | |
|---|---|
| ML-1987 | *Micro Lamps* |
| 1987 | *Norman* |
| 28V150W | *Universal* |
| 34-0226010-91 | *Whelen* |
| C17312-1 | *Cessna* |
| 40-0003 | *Aeroflash* |
| 40-6A | *Gulfstream* |
| 369A-4562-5 | *Hughes* |

## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

## SPECIAL FEATURES

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Horizontal Filament Positioning
- High Temperature Brass & Solder Contacts

## NORMAN LAMPS, INC. (NLI)

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**NORMAN Lamps, Inc.**

*Aircraft Lamp Division*

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*Design ● Manufacturing ● Distribution*

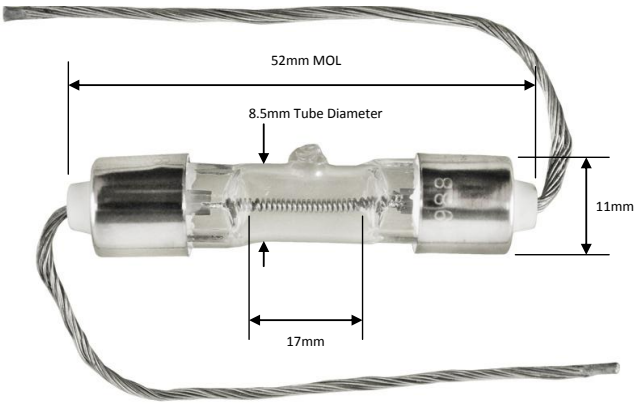
- Aircraft Navigation Light
- 1988; NSN 6240-00-548-3978
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Wire Terminals* |
| Filament | C-8 |
| Voltage | 10 |
| Wattage | 100 |
| Rated Life | 2,000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.05" (52mm) |
| Maximum Bulb Diameter | 0.34" (8.5mm) |
| Filament Length | 0.67" (17.0mm) |

**1988**
**10V 100W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 2,000 |
| Initial Lumens per Watt | 20 |
| MSCP | 130 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |




**NOTE:** Photos are enlarged to show detail.
*Stranded wire terminals with ⅛" solder dipped tips.
78mm (3.08") terminal length.

| CROSS REFERENCE | |
|---|---|
| ML-1988 | *Micro Lamps* |
| NLI-1988 | *Norman* |
| GE-1988 | *General Electric* |
| | |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 500 Lamps | 15Lbs. | 23"x10"x6" |
| Inner pack | 50 Lamps | 1.3Lbs. | 9"x4½"x2½" |
| Unit Pack | 1 Lamp | 0.46oz. | 2½"x¾"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Vibration Resistant
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- A508-14; 1991; ERC
- Quartz-Halogen

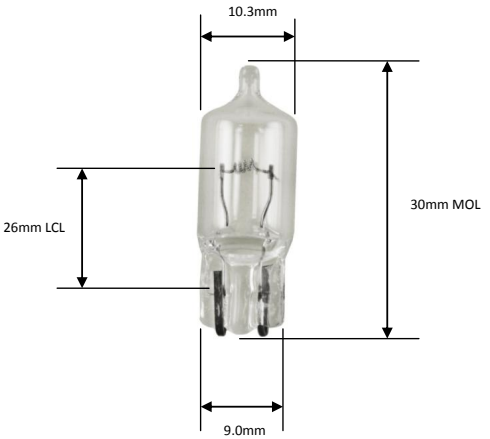
**A508-14**
**14V 25W**

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3¼ |
| Base | Glass Wedge Base |
| Filament | CC-6 |
| Voltage | 14 |
| Wattage | 25 |
| Rated Life | 500 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.40" (10.3mm) |
| Light Center Length | 0.50" (12.7mm) |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 500 |
| Initial Lumens per Watt | 20 |
| MSCP | 48 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| 1991 | *Norman* |
| 1991 | *Sylvania* |
| ERC | *ANSI* |
| WHL-A508-14 | *Whelen* |
| 34-0428070-63 | *Whelen* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 28Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.38oz. | 2¾"x1"x1" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Computer Aligned Filament Centering
- Superior Lumen Maintenance
- Glass Wedge Base

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- A508-28; 1999; ESG
- Quartz-Halogen

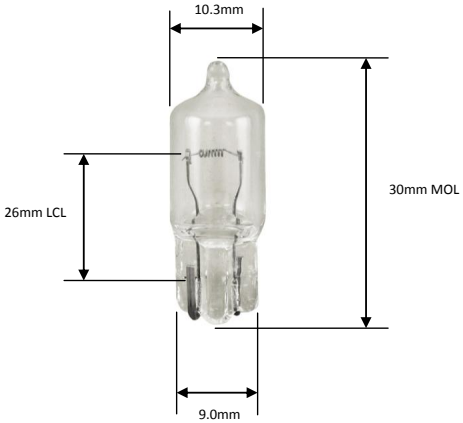
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3¼ |
| Base | Glass Wedge Base |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 25 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.40" (10.3mm) |
| Light Center Length | 0.50" (12.7mm) |

**A508-28**
**28V 25W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 500 |
| Initial Lumens per Watt | 20 |
| MSCP | 48 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| 1999 | *Norman* |
| 1999 | *Sylvania* |
| ESG | *ANSI* |
| WHL-A508-28 | *Whelen* |
| 34-0428070-64 | *Whelen* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 28Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.38oz. | 2¾"x1"x1" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Computer Aligned Filament Centering
- Superior Lumen Maintenance
- Glass Wedge Base

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 2059
- Quartz-Halogen

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 12 |
| Wattage | 10 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 200 |
| Initial Lumens per Watt | 20 |
| MSCP | 11 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*

| CROSS REFERENCE | |
|---|---|
| 998502-8 | *Welch Allyn* |
| | |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.23" (31mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**2059**
**12V 10W**




| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Reading Light
- 2059X
- Quartz-Halogen

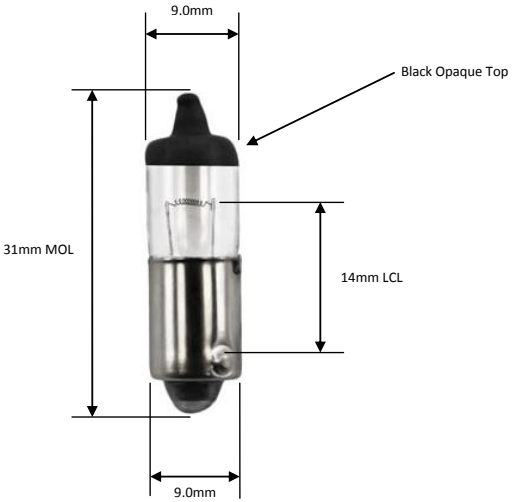
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-3 |
| Base | Miniature Bayonet |
| Filament | CC-6 |
| Voltage | 12 |
| Wattage | 10 |
| Rated Life | 4000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.23" (31mm) |
| Maximum Bulb Diameter | 0.35" (9.0mm) |
| Light Center Length | 0.55" (14mm) |

**2059X**
**12V 10W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 200 |
| Initial Lumens per Watt | 20 |
| MSCP | 9.3 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| 998502-4 | *Welch Allyn* |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 8Lbs. | 12"x9½"x10½" |
| Inner pack | 100 Lamps | ¾ Lbs. | 7"x2"x4½" |
| Unit Pack | 10 Lamp | 1.20oz. | 4½"x2"x¾" |

**SPECIAL FEATURES**

- Quartz-Halogen Bulb
- Long Life Filament
- Superior Lumen Maintenance
- Precise Filament Positioning
- Black Opaque Top

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**
*Design ● Manufacturing ● Distribution*

- Aircraft Navigation Light
- NLI-4174-24; MS24513-4174-24; NSN 6240-00-592-1006; M6363/3-1

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | GG-12B1 |
| Base | S.C. Indexing Base |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 43 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (61mm) |
| Maximum Bulb Diameter | 1.53" (39mm) |
| Light Center Length | 1.34" (34mm) |

**NLI-4174-24**
**28V 43W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 650 |
| Initial Lumens per Watt | 16.25 |
| MSCP | 52 |
| General Light Pattern | Flood |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| ML-4174-24 | *Micro Lamps* |
| UA-4174B24 | *Universal* |
| CMA-4174-B24 | *Chicago Miniature* |
| WA-4174B24 | *Whelen* |
| A4174-B24 | *Grimes* |
| NLI-4174-24 | *Norman* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 600 Lamps | 32Lbs. | 19"x19"x18" |
| Inner pack | 50 Lamps | 2.5Lbs. | 9"x9"x5¾" |
| Unit Pack | 1 Lamp | 0.80oz. | 1¾"x1¾"x2½" |

**SPECIAL FEATURES**

- Integrated Reflector Coating
- Superior Beam Performance
- Precise Filament Positioning
- Precise Base Alignment
- **BAY15S** Indexing Bayonet Base

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*Aircraft Lamp Division*

**Serving the Aviation Industry Since 1985**

*Design ● Manufacturing ● Distribution*

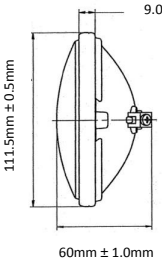
- Aircraft Landing/Emergency Light
- 4313; 250WPAR36/NSP/ST/13V

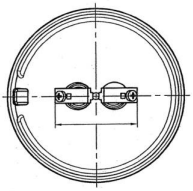
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | C-6 |
| Voltage | 13 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 140,000 |
| Beam Spread-Horizontal | 16° – 10.0% |
| Beam Spread-Vertical | 7° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4313 13V 250W**
**AIRCRAFT LANDING**













| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

**NORMAN LAMPS, INC. (NLI)**

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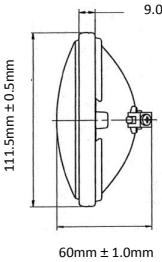
- Aircraft/Military Auto Light
- 4502; MS25243-4502

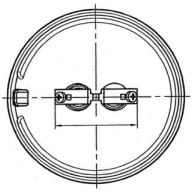
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | C-6 |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 400 Hrs. |
| Primary Application | Aircraft/Military |

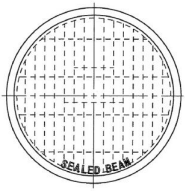
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 10,000 |
| Beam Spread-Horizontal | 40° – 10.0% |
| Beam Spread-Vertical | 7° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4502 28V 50W**
**AUTO HEADLAMP**











| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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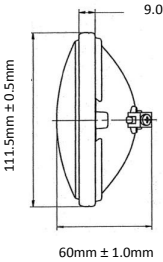
- Aircraft Navigation Light
- 4505; NSN 6240-00-635-4643; MS25243-4505

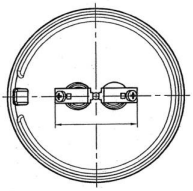
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6, Shielded |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 400 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 45,000 |
| Beam Spread-Horizontal | 11° – 10.0% |
| Beam Spread-Vertical | 5° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4505 28V 50W**
**AIRCRAFT NAVIGATION**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty, Shielded Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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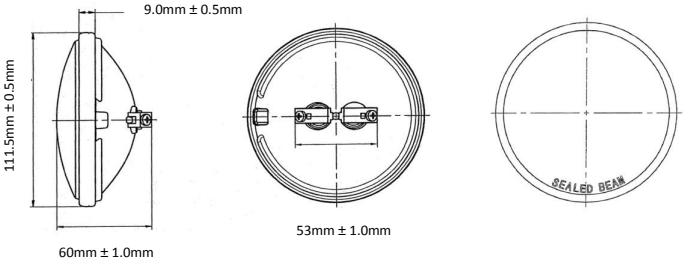
- Aircraft Navigation Light
- 4505-R; 50PAR36/NSP/ST/28V/RED

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6, Shielded |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 400 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 38,000 |
| Beam Spread-Horizontal | 11° – 10.0% |
| Beam Spread-Vertical | 5° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4505-R 28V 50W**
**AIRCRAFT NAVIGATION**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Vibration Resistant
- Computer Aligned Filament Positioning
- Aviation **Red** Glass

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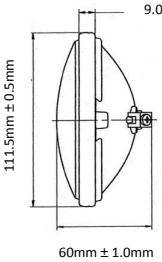
- Aircraft Landing Light
- 4509; NSN 6240-00-237-7867; MS25243-4509

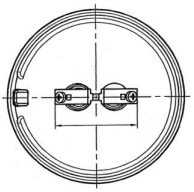
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | C-6 |
| Voltage | 13 |
| Wattage | 100 |
| Rated Life | 25Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 110,000 |
| Beam Spread-Horizontal | 12° – 10.0% |
| Beam Spread-Vertical | 6° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4509 13V 100W**
**AIRCRAFT LANDING**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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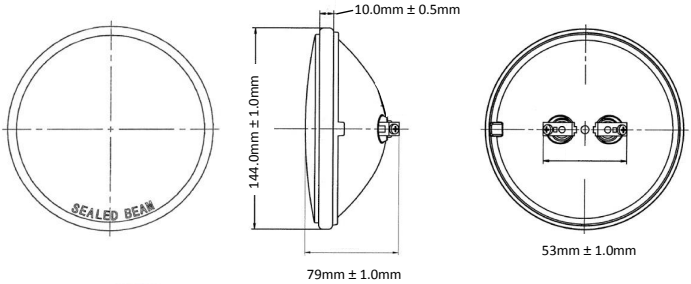
- Aircraft Landing Light
- 4522; NSN 6240-00-155-7920; MS25241-4522

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | C-2, Shielded |
| Voltage | 13 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.12" (79mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4522 13V 250W**
**AIRCRAFT LANDING**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 290,000 |
| Beam Spread-Horizontal | 12.0° – 10.0% |
| Beam Spread-Vertical | 10.0° – 10.0% |
| General Beam Pattern | Spot |






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty, Shielded Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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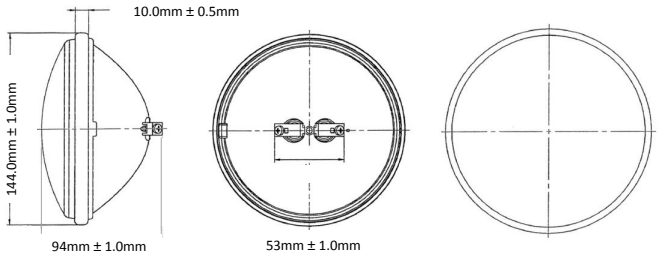
- Aircraft; Emergency Signal Flashing Light
- 4530; 5.3A/139W/PAR46/ST/SP/26V

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | 4CC-8 |
| Voltage | 26 |
| Wattage | 139 (5.3Amp) |
| Rated Life | 50 Hrs. |
| Primary Application | Emergency Signal |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 100,000 |
| Beam Spread-Horizontal | 11.0° – 10.0% |
| Beam Spread-Vertical | 11.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70" (94mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4530 26V 5.3A**
**SIGNAL FLASHING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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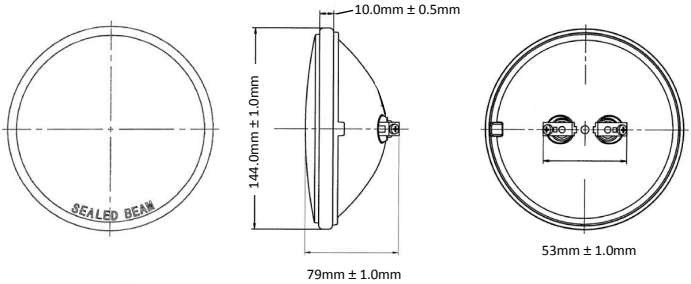
- Aircraft Landing Light
- 4537; NSN 6240-00-946-9636

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | C-6 |
| Voltage | 13 |
| Wattage | 100 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.12" (79mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4537 13V 100W**
**AIRCRAFT LANDING**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 200,000 |
| Beam Spread-Horizontal | 11.0° – 10.0% |
| Beam Spread-Vertical | 6.0° – 10.0% |
| General Beam Pattern | Spot |






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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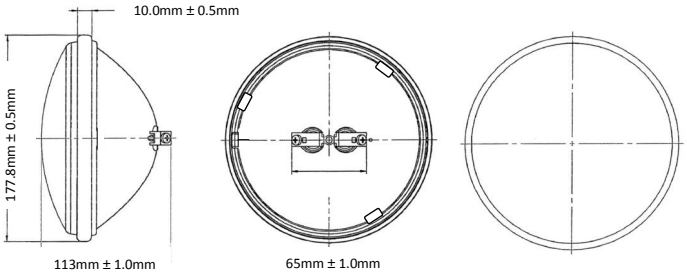
- Aircraft Landing Light
- 4541; NSN 6240-00-155-7774; MS18007-4541

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR56 |
| Base | Screw Terminals |
| Filament | C-13, Shielded |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 470,000 |
| Beam Spread-Horizontal | 15.0° – 10.0% |
| Beam Spread-Vertical | 11.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 4.50" (114mm) |
| Maximum Bulb Diameter | 7.00" (177.8mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4541 28V 450W**
**AIRCRAFT LANDING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 12 Lamps | 15Lbs. | 38"x38"x23" |
| Inner pack | 6 Lamps | 7Lbs. | 18"x18"x11" |
| Unit Pack | 1 Lamp | 1Lb. | 6"x6"x5½" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty, Shielded Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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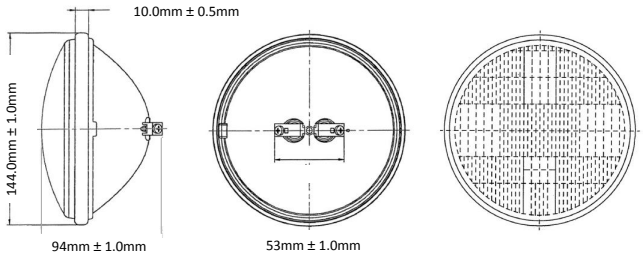
- Aircraft Taxiing Light
- 4551; NSN 6240-00-583-3334; MS24517-4551

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 75,000 |
| Beam Spread-Horizontal | 50.0° – 10.0% |
| Beam Spread-Vertical | 10.0° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70” (94mm) |
| Maximum Bulb Diameter | 5.67” (144.0mm) |
| Bulb Edge Width | 0.39” (10.0mm) |

**NLI**
**4551 28V 250W**
**AIRCRAFT TAXIING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31”x13”x10” |
| Inner pack | 12 Lamps | 11Lbs. | 15”x12”x9” |
| Unit Pack | 1 Lamp | 14oz. | 5”x4½”x6” |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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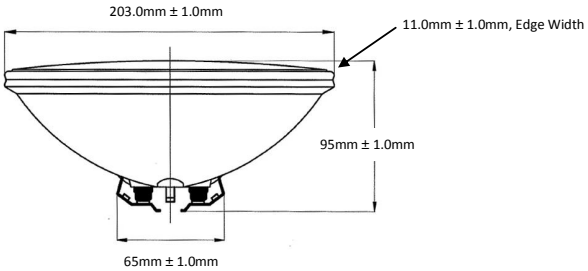
- Aircraft Landing Light
- 4552; NSN 6240-00-617-0994

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR64 |
| Base | Screw Terminals |
| Filament | CC-8, Shielded |
| Voltage | 28 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 500,000 |
| Beam Spread-Horizontal | 7.0° – 10.0% |
| Beam Spread-Vertical | 8.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.74" (95mm) |
| Maximum Bulb Diameter | 8.00" (203.0mm) |
| Bulb Edge Width | 0.47" (12.0mm) |

**NLI**
**4552 28V 250W**
**AIRCRAFT LANDING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 6 Lamps | 14Lbs. | 22"x14½"x8" |
| Inner pack | N/A | N/A | N/A |
| Unit Pack | 1 Lamp | 2Lbs. | 7"x7"x7" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament, Shielded
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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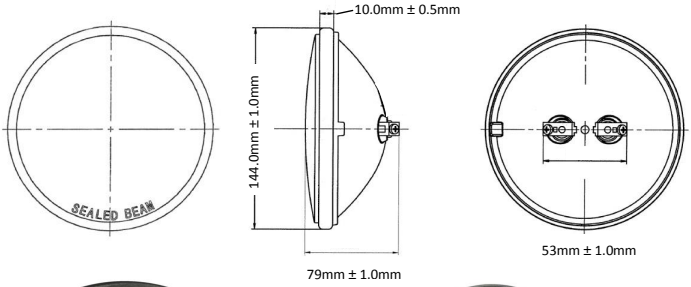
- Aircraft Landing Light
- 4553; NSN 6240-00-816-4808; MS25241-4553

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-8, Shielded |
| Voltage | 28 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.12" (79mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4553 28V 250W**
**AIRCRAFT LANDING**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 300,000 |
| Beam Spread-Horizontal | 11.0° – 10.0% |
| Beam Spread-Vertical | 12.0° – 10.0% |
| General Beam Pattern | Spot |











| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty, Shielded Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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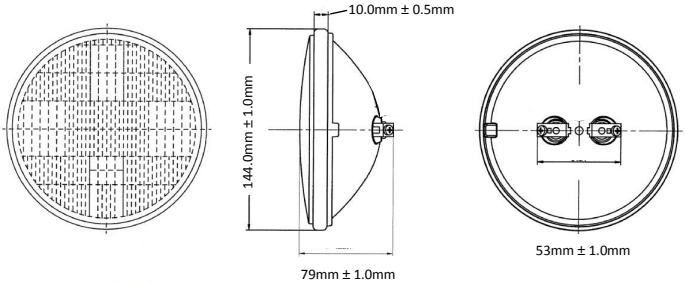
- Aircraft Taxiing Light
- 4554; NSN 6240-00-821-5125

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.12" (79mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4554 28V 450W**
**AIRCRAFT TAXIING**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 90,000 |
| Beam Spread-Horizontal | 50.0° – 10.0% |
| Beam Spread-Vertical | 16.0° – 10.0% |
| General Beam Pattern | Flood |







| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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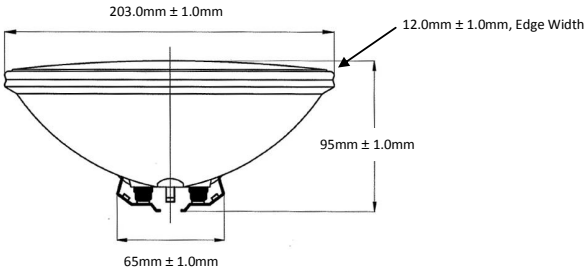
- Aircraft Landing Light
- 4557; NSN 6240-00-519-2131

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR64 |
| Base | 3 Screw Terminals |
| Filament | CC-8/C-6 Ultra |
| Voltage | 28 |
| Wattage | 1000/400 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | N/A |
| Beam Spread-Horizontal | 25.0° – 10.0% |
| Beam Spread-Vertical | 11.0° – 10.0% |
| General Beam Patterns | Spot & Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.74" (95mm) |
| Maximum Bulb Diameter | 8.00" (203.0mm) |
| Bulb Edge Width | 0.47" (12.0mm) |

**NLI**
**4557 28V 1000/400W**
**AIRCRAFT LANDING/TAXIING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 6 Lamps | 14Lbs. | 22"x14½"x8" |
| Inner pack | N/A | N/A | N/A |
| Unit Pack | 1 Lamp | 2Lbs. | 7"x7"x7" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty, ***Double*** Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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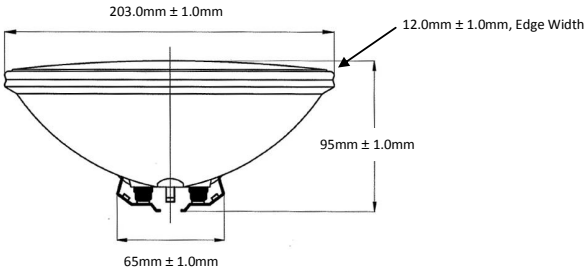
- Aircraft Landing Light
- 4559; 600PAR64/VNSP/28V

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR64 |
| Base | Screw Terminals |
| Filament | CC-8 Ultra |
| Voltage | 28 |
| Wattage | 600 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.74" (95mm) |
| Maximum Bulb Diameter | 8.00" (203.0mm) |
| Bulb Edge Width | 0.47" (12.0mm) |

**NLI**
**4559 28V 600W**
**AIRCRAFT LANDING**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 600,000 |
| Beam Spread-Horizontal | 11.0° – 10.0% |
| Beam Spread-Vertical | 12.0° – 10.0% |
| General Beam Patterns | Spot |










| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 6 Lamps | 14Lbs. | 22"x14½"x8" |
| Inner pack | N/A | N/A | N/A |
| Unit Pack | 1 Lamp | 2Lbs. | 7"x7"x7" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure, Shielded
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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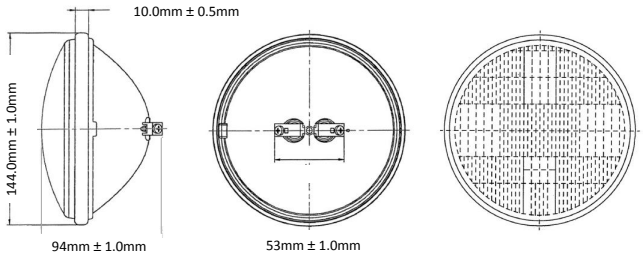
- Aircraft Taxiing Light
- 4570; NSN 6240-00-132-5328; MS28926-4570

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 150 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 32,000 |
| Beam Spread-Horizontal | 50.0° – 10.0% |
| Beam Spread-Vertical | 9.0° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70” (94mm) |
| Maximum Bulb Diameter | 5.67” (144.0mm) |
| Bulb Edge Width | 0.39” (10.0mm) |

**NLI**
**4570 28V 150W**
**AIRCRAFT TAXIING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31”x13”x10” |
| Inner pack | 12 Lamps | 11Lbs. | 15”x12”x9” |
| Unit Pack | 1 Lamp | 14oz. | 5”x4½”x6” |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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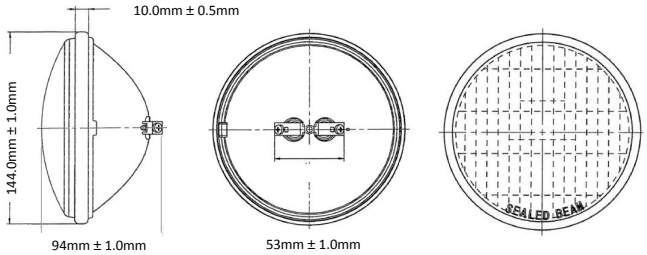
- Aircraft; Special Service Flood Light
- 4571; NSN 6240-00-690-1094

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 150 |
| Rated Life | 300 Hrs. |
| Primary Application | Military, CIM |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 7,000 |
| Beam Spread-Horizontal | 80.0° – 10.0% |
| Beam Spread-Vertical | 25.0° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70" (94mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4571 28V 150W**
**SPECIAL SERVICE FLOOD**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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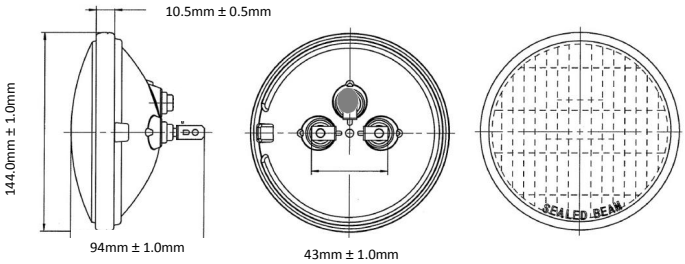
- Aviation Flood Light
- 4578; 4578/28V/60W/PAR46/2; GM5949701

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | 2 Contact Lugs |
| Filament | 2C-6 |
| Voltage | 28 |
| Wattage | 60 |
| Rated Life | 800 Hrs. |
| Primary Application | Aviation Machinery |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70" (94mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.42" (10.5mm) |

**NLI**
**4578 28V 60W**
**C.I.M. FLOOD**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 1,600 |
| Beam Spread-Horizontal | 55.0° – 10.0% |
| Beam Spread-Vertical | 30.0° – 10.0% |
| General Beam Pattern | Flood |







| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- 2 Contact Lugs for Quick Connect
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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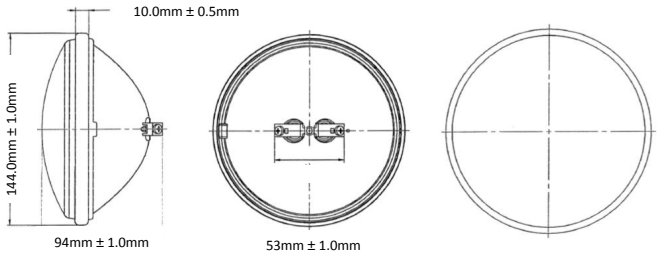
- Aircraft Landing Light
- 4580; NSN 6240-00-283-9901

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 10 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 400,000 |
| Beam Spread-Horizontal | 13.0° – 10.0% |
| Beam Spread-Vertical | 14.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70" (94mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4580 28V 450W**
**AIRCRAFT LANDING**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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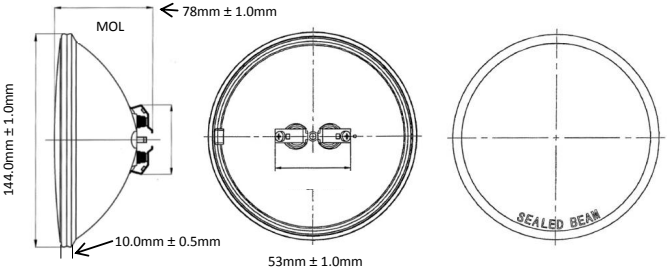
- Aircraft Taxiing Light
- 4581; NSN 6240-00-557-3065; MS25241-4581

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 10 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 40,000 |
| Beam Spread-Horizontal | 13.0° – 10.0% |
| Beam Spread-Vertical | 14.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.07" (78mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4581 28V 450W**
**AIRCRAFT TAXIING**










| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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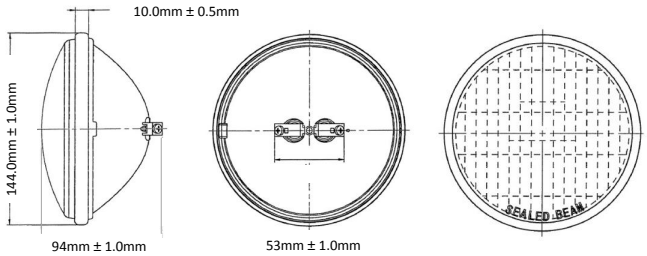
- Aircraft Flood Light
- 4582; NSN 6240-00-594-7138; MS25241-4582

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 28 |
| Wattage | 450 |
| Rated Life | 10 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 20,000 |
| Beam Spread-Horizontal | 50.0° – 10.0% |
| Beam Spread-Vertical | 55.0° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.70" (94mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4582 28V 450W**
**AIRCRAFT FLOOD**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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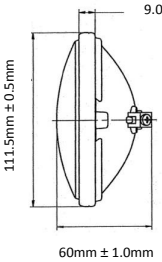
- Aircraft Taxiing Light
- 4587; NSN 6240-00-557-3426

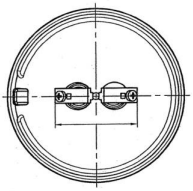
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 28 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

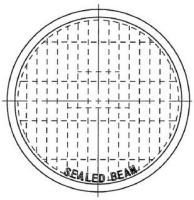
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 40,000 |
| Beam Spread-Horizontal | 40° – 10.0% |
| Beam Spread-Vertical | 13° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4587 28V 250W**
**AIRCRAFT TAXIING**










| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

**NORMAN LAMPS, INC. (NLI)**

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**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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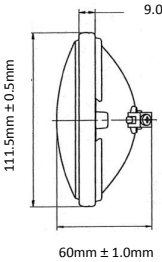
- Aircraft Cockpit Light
- 4589; NSN 6240-00-635-4406

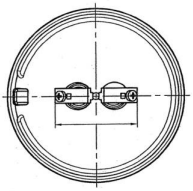
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | C-6 |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 400 Hrs. |
| Primary Application | Aircraft |

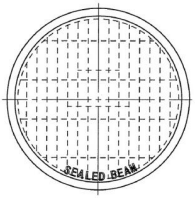
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 5,000 |
| Beam Spread-Horizontal | 40° – 10.0% |
| Beam Spread-Vertical | Trapezoidal |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4589 28V 50W**
**COCKPIT FLOOD**











| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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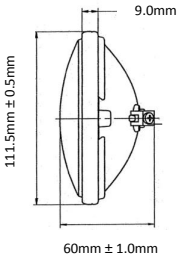
- Aircraft Landing Light
- 4591; NSN 6240-00-0132-5365

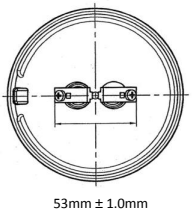
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 100 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 90,000 |
| Beam Spread-Horizontal | 12° – 10.0% |
| Beam Spread-Vertical | 6° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4591 28V 100W**
**AIRCRAFT LANDING**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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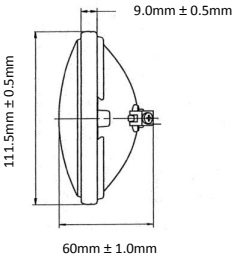
- Aircraft Flood Light
- 4593; NSN 6240-00-132-5317

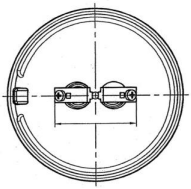
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 50 |
| Rated Life | 400 Hrs. |
| Primary Application | Aircraft |

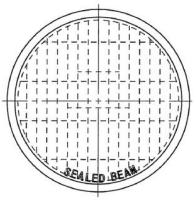
| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4593 28V 50W**
**AIRCRAFT FLOOD**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 1,500 |
| Beam Spread-Horizontal | 80° – 10.0% |
| Beam Spread-Vertical | 30° – 10.0% |
| General Beam Pattern | Flood |











| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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**NORMAN Lamps, Inc.**
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- Aircraft Navigation Light
- 4594; NSN 6240-00-484-5947

**NLI**
**4594 28V 100W**
**AIRCRAFT NAVIGATION**

## GENERAL SPECIFICATIONS

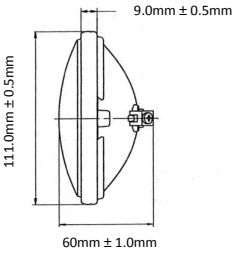
| | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 100 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

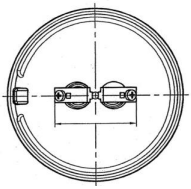
## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Max. Beam Candlepower | 70,000 |
| Beam Spread-Horizontal | 13.0° – 10.0% |
| Beam Spread-Vertical | 7.0° – 10.0% |
| General Beam Pattern | Spot |














## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

## SPECIAL FEATURES

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

## NORMAN LAMPS, INC. (NLI)

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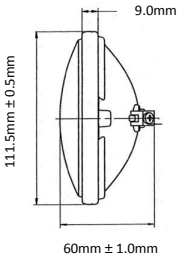
- Aircraft Navigation Light
- 4595; NSN 6240-00-954-5503

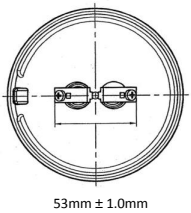
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 100 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 60,000 |
| Beam Spread-Horizontal | 14° – 10.0% |
| Beam Spread-Vertical | 6° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4595 13V 100W**
**AIRCRAFT NAVIGATION**














| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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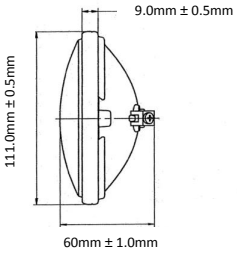
- Aircraft Landing Light
- 4596; NSN 6240-00-577-8450

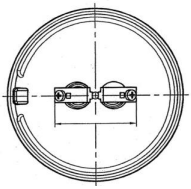
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 28 |
| Wattage | 250 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 150,000 |
| Beam Spread-Horizontal | 11.0° – 10.0% |
| Beam Spread-Vertical | 12.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4596 28V 250W**
**AIRCRAFT LANDING**













| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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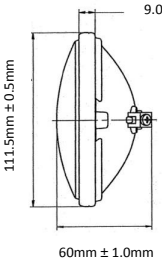
- Aircraft Taxiing Light
- 4626; NSN 6240-00-917-0771

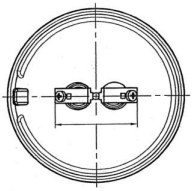
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | C-6 |
| Voltage | 28 |
| Wattage | 150 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

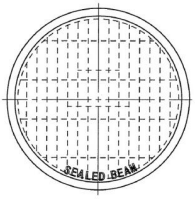
| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 25,000 |
| Beam Spread-Horizontal | 40° – 10.0% |
| Beam Spread-Vertical | 9° – 10.0% |
| General Beam Pattern | Flood |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4626 28V 150W**
**TAXIING LANDING**










| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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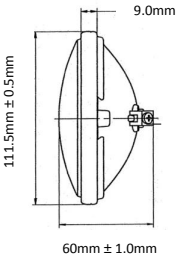
- Aircraft Flood Light
- 4627; NSN 6240-00-917-0772

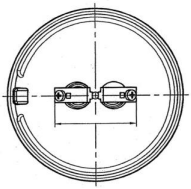
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | Screw Terminals |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 100 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

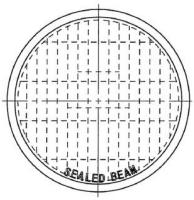
| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4627 28V 100W**
**AIRCRAFT FLOOD**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 3,000 |
| Beam Spread-Horizontal | 80° – 10.0% |
| Beam Spread-Vertical | 30° – 10.0% |
| General Beam Pattern | Flood |











| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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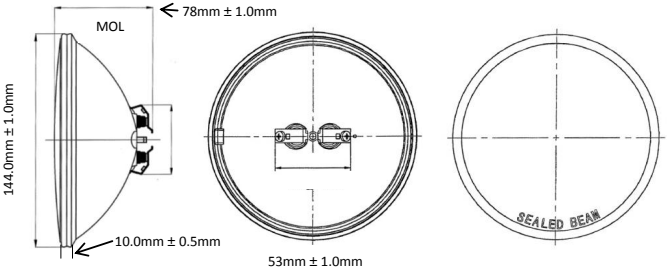
- Aircraft Landing Light
- 4635; 450W/PAR46/ST2/SP-16.5V

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR46 |
| Base | Screw Terminals |
| Filament | CC-8 |
| Voltage | 16.5 |
| Wattage | 450 |
| Rated Life | 25 Hrs. |
| Primary Application | Aircraft |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 325,000 |
| Beam Spread-Horizontal | 14.0° – 10.0% |
| Beam Spread-Vertical | 15.0° – 10.0% |
| General Beam Pattern | Spot |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 3.07" (78mm) |
| Maximum Bulb Diameter | 5.67" (144.0mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4635 16.5V 450W**
**AIRCRAFT LANDING**







| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 24 Lamps | 24Lbs. | 31"x13"x10" |
| Inner pack | 12 Lamps | 11Lbs. | 15"x12"x9" |
| Unit Pack | 1 Lamp | 14oz. | 5"x4½"x6" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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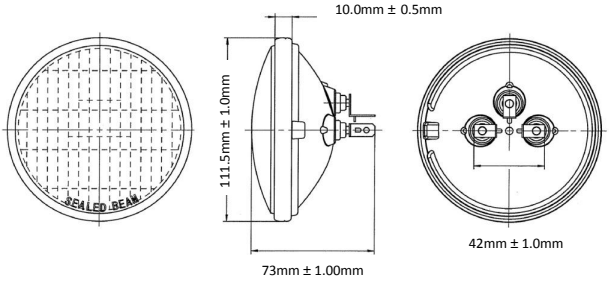
- Military, Special Service Light
- 4811; 6240-00-368-4972

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | 3 Contact Lugs |
| Filament | CC-6/CC-6 |
| Voltage | 28/28 |
| Wattage | 110/55 |
| Rated Life | 400/400 Hrs. |
| Primary Application | Military, Headlamp |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 440/130 SAE |
| Beam Spread-Horizontal | 25.0 – 10.0° |
| Beam Spread-Vertical | 9.0 – 10.0° |
| General Beam Pattern | Rectangular |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.87" (73mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.39" (10.0mm) |

**NLI**
**4811 28V 110/55W**
**MILITARY HEADLAMP**






| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Lugs
- High / Low Beam
- Heavy Duty Filament Structure
- Vibration Resistant
- Computer Aligned Filament Positioning
- Double Layer Aluminum Reflector

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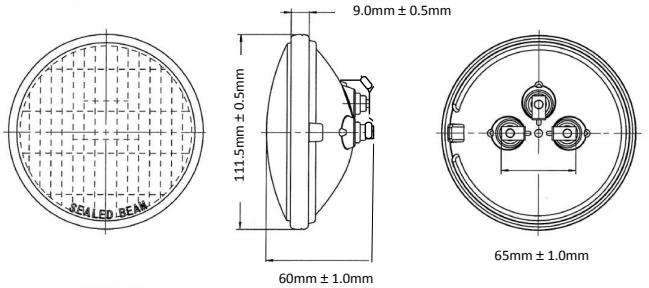
- Aviation Stop/Tail Light
- 4825-R; 50PAR36/28V/3/RED

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Sealed Beam-PAR |
| Bulb | PAR36 |
| Base | 3 Screw Terminals |
| Filament | C-2V/C-2V |
| Voltage | 28 |
| Wattage | 50/18 |
| Rated Life | 200 Hrs. |
| Primary Application | Aviation C.I.M. |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.40" (60mm) |
| Maximum Bulb Diameter | 4.40" (111.5mm) |
| Bulb Edge Width | 0.35" (9.0mm) |

**NLI**
**4825-R 28V 50W/18W**
**STOP/TAIL**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Max. Beam Candlepower | 5 |
| Beam Spread-Horizontal | 80° – 10.0% |
| Beam Spread-Vertical | 80° – 10.0% |
| General Beam Pattern | Flood |







| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 48 Lamps | 25Lbs. | 26"x12"x14" |
| Inner pack | 12 Lamps | 6Lbs. | 12"x10½"x6¼" |
| Unit Pack | 1 Lamp | 8oz. | 5¼"x4"x3" |

**SPECIAL FEATURES**

- Solid Brass Screw Base
- Secure Locking Washer
- Vibration Resistant
- Computer Aligned Filament Positioning
- Aviation **Red** Glass

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**NORMAN Lamps, Inc.**
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- Aircraft Rotating Beacon/Navigation Light
- NLI-7079-24; MS25338-7079-24; NSN 6240-00-564-1084; M6363/1-1

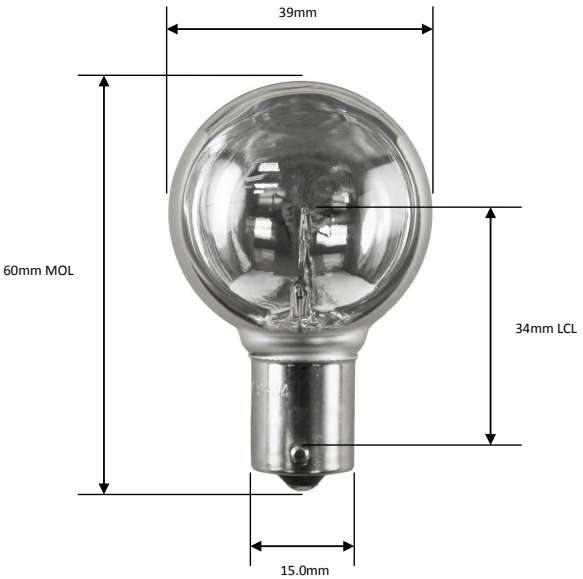
**NLI-7079-24**
**28V 43W**

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | GG-12A1 |
| Base | S.C. Indexing Base |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 43 |
| Rated Life | 150 Hrs. |
| Primary Application | Aircraft Beacon |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.35" (60mm) |
| Maximum Bulb Diameter | 1.53" (39mm) |
| Light Center Length | 1.34" (34mm) |

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 650 |
| Initial Lumens per Watt | 16.25 |
| MSCP | 52 |
| General Light Pattern | Spot |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| ML-7079-24 | *Micro Lamps* |
| UA-7079B24 | *Universal* |
| CML-7079-B24 | *Chicago Miniature* |
| WA-7079B24 | *Whelen* |
| A7079-B24 | *Grimes* |
| NLI-7079-24 | *Norman* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 600 Lamps | 32Lbs. | 19"x19"x18" |
| Inner pack | 50 Lamps | 2.5Lbs. | 9"x9"x5¾" |
| Unit Pack | 1 Lamp | 0.80oz. | 1¾"x1¾"x2½" |

**SPECIAL FEATURES**

- Integrated Reflector Coating
- Superior Beam Performance
- Precise Filament Positioning
- Precise Base Alignment
- **BAY15S** Indexing Bayonet Base

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**NORMAN Lamps, Inc.**
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- Aircraft Navigation Light
- NLI-7512-12; MS25309-7512-12; NSN 6240-00-182-7944

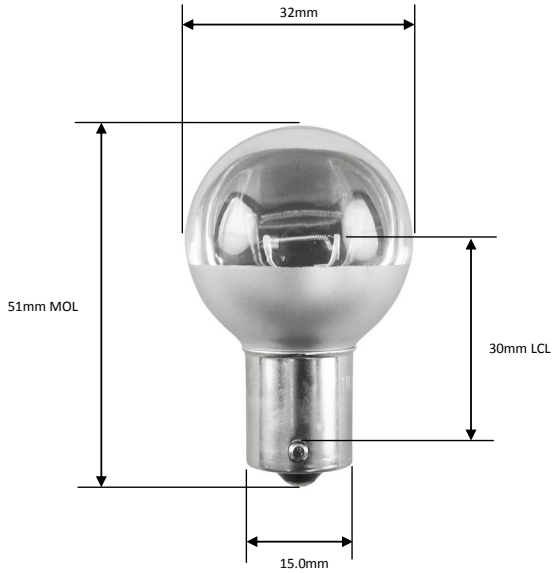
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | GG-10 |
| Base | S.C. Indexing Base |
| Filament | CC-6 |
| Voltage | 13 |
| Wattage | 26 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.00" (51mm) |
| Maximum Bulb Diameter | 1.26" (32mm) |
| Light Center Length | 1.18" (30mm) |

**NLI-7512-12**
**13V 26W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 425 |
| Initial Lumens per Watt | 16.25 |
| MSCP | 24 |
| General Light Pattern | Flood |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| ML-7512-12 | *Micro Lamps* |
| UA-7512-12 | *Universal* |
| CMA-7512-12 | *Chicago Miniature* |
| W1290-14 | *Whelen* |
| 7512-12 | *Grimes* |
| NLI-7512-12 | *Norman* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 600 Lamps | 28Lbs. | 15½"x15½"x15½" |
| Inner pack | 50 Lamps | 2.2Lbs. | 7"x7"x4¾" |
| Unit Pack | 1 Lamp | 0.70oz. | 1¼"x1¼"x2¼" |

**SPECIAL FEATURES**

- Integrated Reflector Coating
- Superior Beam Performance
- Precise Filament Positioning
- Precise Base Alignment
- **BAY15S** Indexing Bayonet Base

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**NORMAN Lamps, Inc.**
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- Aircraft Navigation Light
- NLI-7512-24; MS25309-7512-24; NSN 6240-00-681-8366; M6363/2-2

| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | GG-10 |
| Base | S.C. Indexing Base |
| Filament | CC-6 |
| Voltage | 28 |
| Wattage | 26 |
| Rated Life | 300 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 2.00" (51mm) |
| Maximum Bulb Diameter | 1.26" (32mm) |
| Light Center Length | 1.18" (30mm) |

**NLI-7512-24**
**28V 26W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 425 |
| Initial Lumens per Watt | 16.25 |
| MSCP | 24 |
| General Light Pattern | Flood |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| ML-7512-24 | *Micro Lamps* |
| UA-7512-24 | *Universal* |
| CMA-7512-24 | *Chicago Miniature* |
| W1290-24 | *Whelen* |
| 7512-24 | *Grimes* |
| 753-478 | *Piper* |
| NLI-7512-24 | *Norman* |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 600 Lamps | 28Lbs. | 15½"x15½"x15½" |
| Inner pack | 50 Lamps | 2.2Lbs. | 7"x7"x4¾" |
| Unit Pack | 1 Lamp | 0.70oz. | 1¼"x1¼"x2¼" |

**SPECIAL FEATURES**

- Integrated Reflector Coating
- Superior Beam Performance
- Precise Filament Positioning
- Precise Base Alignment
- **BAY15S** Indexing Bayonet Base

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**Norman Lamps Inc.**
**P.O. Box 3550**
**St. Charles, IL 60174**

*Quality Aircraft Lamps, Distributed Worldwide* *U.S.A.* **1-800-992-8020** *FAX* **1-866-482-3916**

***www.AircraftLightingDirect.com***

October 22, 2012

Re: Miniature Bi-pin lamp # 7839-100
Part number cross reference for identical lamp

The following list of part numbers are all interchangeable and identical to each other:

| | |
|---|---|
| 7839-100 | General Electric, NLI |
| 1044-06 | Chicago Miniature |
| E0510-01 | Vishay |
| OL6839BPE | Oshino |
| 6839BPE | Oshino |
| 1280-08 | MGG |
| E0404-2 | Osram |
| 7839BP2 | Airbus |
| 8GS005453-28 | Goodrich/Hella |

General Specifications:

T-1
28V
24mA
0.150MSCP
16,000 Life Hours
CC-2F Filament
Pin Spacing: .100" GPL (Gold Plated Leads)



Sincerely,

*Daniel J. D'Amico*

Daniel J. D'Amico, President
Norman Lamps, Inc.
USA: 1-800-992-8020 ext. 102
FAX: 1-866-482-3916
E-MAIL: dan@normanlamps.com
WEBSITE: www.normanlamps.com

**NORMAN Lamps, Inc.**
*Aircraft Lamp Division*

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- Aircraft Navigation Light
- 9203; NSN 6240-01-455-7331; Q35T4SC/28V
- Quartz-Halogen

**9203**
**28V 35W**

## GENERAL SPECIFICATIONS

| | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-4 |
| Base | S.C. Bayonet |
| Filament | CC-8, Axial |
| Voltage | 28 |
| Wattage | 35 |
| Rated Life | 2,000 Hrs. |
| Primary Application | Aircraft |

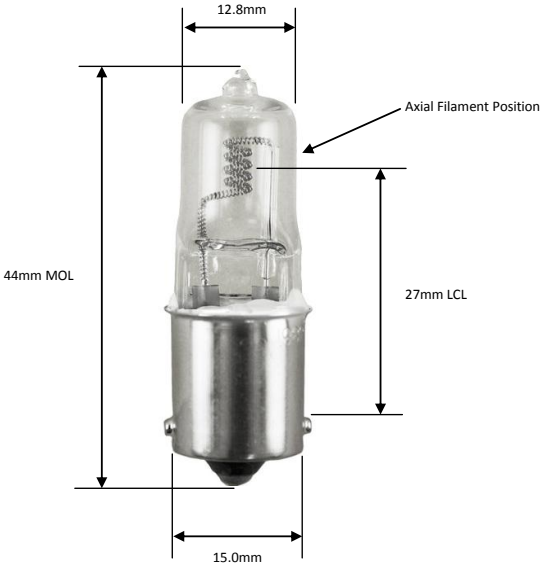
## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Maximum Overall Length | 1.73" (44mm) |
| Maximum Bulb Diameter | 0.50" (12.8mm) |
| Light Center Length | 1.06" (27mm) |

## PHOTOMETRIC SPECIFICATIONS

| | |
|---|---|
| Initial Lumens | 770 |
| Initial Lumens per Watt | 20 |
| MSCP | 90 |
| General Light Pattern | 360° |
| Color Temperature (k) | 4,200 |

**NOTE:** *Photos are enlarged to show detail.*




## CROSS REFERENCE

| | |
|---|---|
| ML-9203 | *Micro Lamps* |
| NLI-9203 | *Norman* |
| 70558 | *Amglo* |
| 55-2181-7 | *Grimes* |
| E4033-3 | *McDonnell Douglas* |

## PACKAGING, WEIGHTS & DIMENSIONS

| | | | |
|---|---|---|---|
| Master Carton | 2,000 Lamps | 53Lbs. | 24"x24"x12½" |
| Inner pack | 50 Lamps | 1.3Lbs. | 6"x6"x2½" |
| Unit Pack | 1 Lamp | 0.43oz. | 2¾"x1"x1" |

## SPECIAL FEATURES

- Quartz-Halogen Bulb
- Long Life Filament
- Computer Aligned Filament Centering
- Superior Lumen Maintenance
- Axial Filament Position

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- Aircraft Reading Light
- 9204
- Xenon Gas Filled

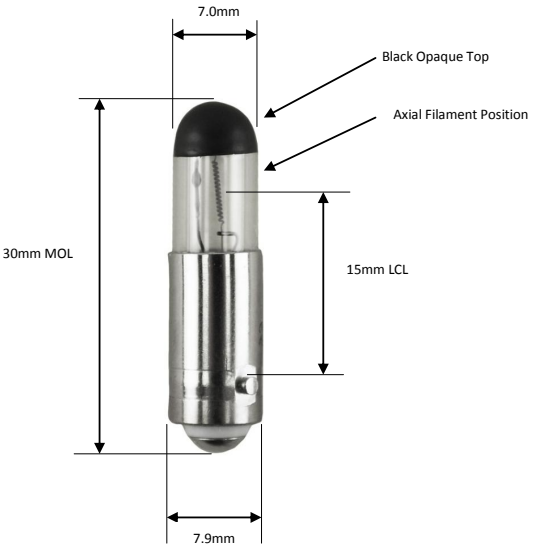
| GENERAL SPECIFICATIONS | |
|---|---|
| Lamp Type | Miniature |
| Bulb | T-2¼ |
| Base | Special Bayonet |
| Filament | CC-8, Axial |
| Voltage | 28 |
| Wattage | 10 |
| Rated Life | 10,000 Hrs. |
| Primary Application | Aircraft |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Maximum Overall Length | 1.18" (30mm) |
| Maximum Bulb Diameter | 0.276" (7.0mm) |
| Light Center Length | 0.58" (15mm) |

**9204**
**28V 10W**

| PHOTOMETRIC SPECIFICATIONS | |
|---|---|
| Initial Lumens | 105 |
| Initial Lumens per Watt | 10.5 |
| MSCP | 6.6 |
| General Light Pattern | 360° |

**NOTE:** *Photos are enlarged to show detail.*




| CROSS REFERENCE | |
|---|---|
| 998502-10 | Welch Allyn |
| | |

| PACKAGING, WEIGHTS & DIMENSIONS | | | |
|---|---|---|---|
| Master Carton | 1,000 Lamps | 20Lbs. | 22"x18"x12½" |
| Inner pack | 100 Lamps | 2Lbs. | 8"x3½"x2¾" |
| Unit Pack | 10 Lamp | 3oz. | 3"x1½"x1¼" |

**SPECIAL FEATURES**

- Xenon Gas Filled Bulb
- Axial Filament for Improved Performance
- Superior Lumen Maintenance Over Lifetime
- Precise Filament Positioning
- High Temperature Contact

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