LED Dome Lights
High performance general illumination

In addition to general ceiling and side wall illumination, there is a need for further lights in parts of the aircraft.

LED dome lights from UTC Aerospace Systems offer the ideal solution for illuminating galleys, passageways, lavatories, closets and staircases. Flexible design even allows their use as workstation lighting.

Many shapes and sizes
UTC Aerospace Systems offers LED dome lights in many different shapes and sizes, including round, oval and rectangular, small to large. This wide range of options offers a comprehensive solution to meet our customers’ many requirements.

Uniform light output
Since illumination is a major factor in creating an atmosphere of comfort inside the aircraft – UTC Aerospace Systems has implemented a human factor in the design of its dome lights: Using state-of-the-art LED technology, they provide a homogeneous and uniform light output.

Long lifetime – low costs
UTC Aerospace Systems LED dome lights provide operators the cost benefits of up to 50,000 hours lifetime, low power consumption, and low maintenance needs. High resistance to shock and vibration as well as room temperature touchable parts add to the passengers’ safety.

Experience
UTC Aerospace Systems has more than 25 years of experience in the use of LED technology and was the first to develop an LED reading light for series production in aircraft.

Today, the company continues to focus its research into providing lighting systems that promote the highest levels of passenger comfort.
Round LED Dome Lights | 2LA455601-XX

Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: 110 mA ± 25 %
- Power Consumption: 4 W max.
- Lifetime: approx. 20,000 hours
- Luminance: 26 cd min.
- Light Color: Cold White (approx. 5,600 K)
- Plating: see variant table
- Color of Lens: White
- Connection: Leads (127 mm/5") with contact pins
- Weight: 0.255 kg/0.562 lbs max.

<table>
<thead>
<tr>
<th>Part-Number</th>
<th>Plating*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2LA455601-02</td>
<td>Champagne Gold Polished</td>
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<tr>
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<tr>
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<tr>
<td>2LA455601-36</td>
<td>Rose Nickel Satin</td>
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</tbody>
</table>

* Further platings available.

• switch included
• no visible screws
• mounting by clamping
• bayonet lock for cover lens

2LA455601-XX

MOUNTING
Round LED Dome Lights | 2LA455913-XX

Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: 280 mA
- Power Consumption: 7.8 W
- Lifetime: approx. 10,000 hours
- Luminance: 24 cd ± 5 cd
- Light Color: Red
- Plating: see variant table
- Color of Lens: White
- Connection: Leads (127 mm/5”) with contact pins
- Weight: 0.255 kg/0.562 lbs max.

- Switch included
- Red light
- No visible screws
- Mounting by clamping
- Bayonet lock for cover lens

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<td>2LA455913-36</td>
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</tbody>
</table>

* Further platings available.
Round LED Dome Lights | 2LA455915-XX

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 110 mA ± 25 %
- Power Consumption: 4 W max.
- Lifetime: approx. 20,000 hours
- Luminance: 26 cd min.
- Light Color: Cold White (approx. 5,600 K)
- Plating: see variant table
- Color of Lens: White
- Connection: Leads (127 mm/5") with contact pins
- Weight: 0.275 kg/0.606 lbs max.

<table>
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<th>Part-Number</th>
<th>Plating*</th>
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<tbody>
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<td>Rose Nickel Satin</td>
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<tr>
<td>2LA455915-58</td>
<td>Polished Gold</td>
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</tbody>
</table>

* Further platings available.

- no visible screws
- mounting by clamping
- bayonet lock for cover lens

2LA455915-58
Round LED Dome Lights | 2LA455608-XX and 2LA455949-XX

**Technical Data:**
- **Operating Voltage:** 28 V DC
- **Operating Current:** 110 mA ± 25 %
- **Power Consumption:** 4 W max.
- **Lifetime:** approx. 20,000 hours
- **Luminance:** 26 cd min.
- **Light Color:** Warm White (approx. 3,000 K)
- **Plating:** see variant table
- **Color of Lens:** White
- **Connection:** Leads (127 mm/5") with contact pins
- **Weight:** 0.454 kg/1 lb max.

**Technical Data integrated Emergency Light:**
- **Operating Voltage:** 6 V DC
- **Operating Current:** 220 mA
- **Power Consumption:** 1.3 W

**Part-Number | Plating**
--- | ---
2LA455608-02/2LA455949-02 | Champagne Gold Polished
2LA455608-06/2LA455949-06 | Champagne Gold Satin
2LA455608-08/2LA455949-08 | Almond Gold Polished
2LA455608-09/2LA455949-09 | Almond Gold Satin
2LA455608-11/2LA455949-11 | Nickel Polished
2LA455608-12/2LA455949-12 | Nickel Satin
2LA455608-15/2LA455949-15 | 24 K Gold Polished
2LA455608-17/2LA455949-17 | 24 K Gold Satin
2LA455608-19/2LA455949-19 | Smoked Nickel Polished
2LA455608-20/2LA455949-20 | Smoked Nickel Satin
2LA455608-24/2LA455949-24 | Chrome Polished
2LA455608-25/2LA455949-25 | Chrome Satin
2LA455608-27/2LA455949-27 | Blush White Gold Polished
2LA455608-28/2LA455949-28 | Blush White Gold Satin
2LA455608-30/2LA455949-30 | Peach Gold Polished
2LA455608-31/2LA455949-31 | Peach Gold Satin
2LA455608-35/2LA455949-35 | Rose Nickel Polished
2LA455608-36/2LA455949-36 | Rose Nickel Satin

* Further platings available.

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**emergency function**
- **no visible screws**
- **mounting by clamping**
- **bayonet lock for cover lens**

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**2LA455608-25**
Round LED Dome Lights | 2LA456185-25

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 110 mA ± 25 %
- Power Consumption: 4 W max.
- Lifetime: approx. 20,000 hours
- Luminance: 26 cd min.
- Light Color: Cold White (approx. 5,750 K)
- Plating: Chrome Satin (further platings available on request)
- Color of Lens: White
- Connection: Leads (127 mm/5") with contact pins
- Weight: 0.277 kg/0.61 lbs max.

- no visible screws
- mounting by clamping
- bayonet lock for cover lens
- dual feed capability (normal operation mode/battery pack)
- auto shut-off function switches light off after 20 minutes to avoid battery discharge (other durations available on request)

2LA456185-25
Round LED Dome Lights | 2LA456192-09

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 110 mA ± 25 %
- Power Consumption: 4 W max.
- Lifetime: approx. 20,000 hours
- Luminance: 26 cd min.
- Light Color: Neutral White (approx. 5,000 K)
- Plating: Almond Gold Satin (further platings available on request)
- Color of Lens: Transparent
- Connection: Leads (127 mm/5") with contact pins
- Weight: 0.454 kg/1.0 lbs max.

Technical Data integrated Emergency Light:
- Operating Voltage: 6 V DC
- Operating Current: 220 mA ± 15 %
- Power Consumption: 1.6 W

• emergency function
• transparent lens
• no visible screws
• mounting by clamping
• bayonet lock for cover lens
Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: see variant table
- Power Consumption: see variant table
- Lifetime: approx. 20,000 hours
- Luminance: see variant table
- Light Color: Cold White (approx. 5,600 K)

- Color of Lens: White
- Connection: Receptacle mating with Plug according to MIL-DTL-24308E
- Size: see variant table
- Weight: see variant table

<table>
<thead>
<tr>
<th>Part-Number</th>
<th>Operating Current</th>
<th>Power Consumption</th>
<th>Luminance</th>
<th>Size</th>
<th>Weight</th>
<th>Number of Springs*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2LA455606-00</td>
<td>565 mA</td>
<td>18.2 W max.</td>
<td>20 cd</td>
<td>861.2 x 124 mm/33.904 x 4.882&quot;</td>
<td>1.0 kg/2.2 lbs</td>
<td>6</td>
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<tr>
<td>2LA455606-21</td>
<td>735 mA</td>
<td>24.0 W max.</td>
<td>25 cd</td>
<td>1,155.1 x 125.8 mm/45.475 x 4.953&quot;</td>
<td>1.2 kg/2.645 lbs</td>
<td>8</td>
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<tr>
<td>2LA455606-30</td>
<td>565 mA</td>
<td>18.2 W max.</td>
<td>20 cd</td>
<td>861.2 x 124 mm/33.904 x 4.882&quot;</td>
<td>1.0 kg/2.2 lbs</td>
<td>8</td>
</tr>
</tbody>
</table>

* Information on position of springs available on request.

- switchable and dimmable via CAN-bus
- standard version without bus control available on request
- no visible screws
- flush mounting with installation spring
- may be operated with interior lighting system director 8ES455611-20 (see page 19)
Oval LED Dome Light | 1005-150-100/-200

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 163 mA
- Power Consumption: 4.6 W
- Lifetime: approx. 50,000 hours
- Luminance: 6.8 cd min.
- Light Color: Cold White (approx. 5,700 K)
- Color of Lens: Milky Diffuse White
- Connection: Connector J1: TVPS00RF11-98PN M354 according to MIL-DTL-38999 Series III
- Weight: 0.447 kg/0.985 lbs for 1005-150-100 (light) + -200 (lens)

Technical Data integrated Emergency Light:
- Operating Voltage: 5.6 VDC
- Operating Current: 275 mA
- Power Consumption: 1.6 W
- Lifetime: approx. 10,000 hours
- Light Color: White (6,000 K)

• switchable and dimmable by cabin management system
• mounted in the ceiling panel above the main cabin aisle
• decorative accent light providing low level illumination on the floor
• emergency function
• easy mounting with quick-release fasteners
Oval LED Dome Light | 1005-020-001

- switchable and dimmable by cabin management system
- provides feature lighting for passengers and flight attendants and serves as entry illumination
- inner oval emits white light
- outer ring consists of side emitting red, green and blue LEDs that flood the ceiling dome profile with any color or sequence of colors as commanded by cabin management system
- mounted in the ceiling panel of the forward entrance area
- easy mounting with clips

Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: 643 mA
- Power Consumption: 18 W
- Lifetime: approx. 50,000 hours
- Luminance: 64 cd min.
- Light Color: Cold White (approx. 5,600 K); Outer Ring: Any Color
- Color of Lens: Milky Diffuse White
- Connection: wiring loom (279.4 mm/11.0") with Amphenol Air-LB Connector D38999/26MD15PN according to MIL-DTL-38999 Series III
- Weight: 1,360.8 kg/3.0 lbs
Oval LED Dome Lights | 2LA455115-XX

Technical Data Emergency Dome Light 2LA455115-26:
• Operating Voltage: 6 V DC
• Operating Current: 570 mA
• Power Consumption: 3.4 W
• Lifetime: approx. 10,000 hours
• Luminance: 15 cd
• Light Color: Cold White (approx. 6,500 K)
• Color of Lens: White
• Connector: AMP 1-640508-0
• Weight: 0.140 kg/0.309 lbs

Technical Data Dome Light with Emergency Function 2LA455115-32:
• Operating Voltage: 28 V DC 6 V DC
• Operating Current: 75 mA 175 mA
• Power Consumption: 2.1 W 1 W
• Lifetime: approx. 10,000 hours
• Luminance: 17 cd 6 cd
• Light Color: Cold White (approx. 6,500 K)
• Color of Lens: White
• Connector: AMP 1-640510-0
• Weight: 0.195 kg/0.430 lbs

Technical Data Dome Light 2LA455115-61:
• Operating Voltage: 28 V DC
• Operating Current: 75 mA
• Power Consumption: 2.1 W
• Lifetime: approx. 10,000 hours
• Luminance: 22 cd
• Light Color: Cold White (approx. 6,500 K)
• Color of Lens: rear gold plated
• Connection: Lead (1,000 mm/39.4”)
• Weight: 0.115 kg/0.254 lbs

• oval lens with rectangular light emitting area
• curved lens surface to follow headliner’s radius (-26 and 61)
• no visible screws
• clip mounting
• available as emergency light (-26) and as dome light with emergency function (-32)
Angular LED Dome Lights | 2LA455605-XX

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 565 mA
- Power Consumption: 18.2 W max.
- Lifetime: approx. 20,000 hours
- Luminance: 25 cd
- Light Color: Cold White (approx. 5,600 K)
- Color of Lens: White
- Shape: rectangular (-00) or trapezoidal (-50)
- Connection: Leads (127 mm/5") with Contact Pins
- Weight: 1.0 kg/2.2 lbs

Technical Data integrated Emergency Light:
- Operating Voltage: 6 V DC
- Operating Current: 210 mA
- Power Consumption: 1.3 W
- Connection: Receptacle mating with Plug according to MIL-DTL-24308E; Dual Feed

- switchable and dimmable via CAN-bus
- standard version without bus control available on request
- emergency function
- no visible screws
- curved lens surface to follow headliner’s radius
- flush mounting with installation spring
- may be operated with interior lighting system director 8ES455611-20 (see page 19)
Rectangular LED Dome Light | 2LA005109-80

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 116 mA
- Power Consumption: 3.25 W
- Lifetime: approx. 30,000 hours
- Luminance: 40 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Lens: White
- Connection: Flying Leads (280 mm/11.024")
- Weight: 1.0 kg/2.2 lbs
Rectangular LED Dome Lights | 2LA455115-XX

- small multiple purpose LED dome light
- dimmable version available (-16)
- emergency light available (-11)

Technical Data LED Dome Light 2LA455115-10:

- Operating Voltage: 28 V DC
- Operating Current: 45 mA
- Power Consumption: 1.3 W
- Lifetime: approx. 10,000 hours
- Luminance: 15 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: Black
- Connection: Lead (1,000 mm/39.4”)
- Weight: 0.080 kg/0.176 lbs

Technical Data dimmable LED Dome Light 2LA455115-11:

- Operating Voltage: 28 V DC
- Operating Current: 45 mA
- Power Consumption: 1.3 W
- Lifetime: approx. 10,000 hours
- Luminance: 15 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: Black
- Connection: Lead (1,000 mm/39.4”)
- Weight: 0.080 kg/0.176 lbs

Technical Data LED Emergency Dome Light 2LA455115-16:

- Operating Voltage: 6 V DC
- Operating Current: 180 mA
- Power Consumption: 1.1 W
- Lifetime: approx. 10,000 hours
- Luminance: 7 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: Black
- Connection: Lead (940 mm/37”)
- Weight: 0.070 kg/0.154 lbs
Rectangular LED Dome Lights | 2LA455115-XX

- multiple purpose LED dome light
- dimmable versions available (-30/-31)

Technical Data LED Dome Light 2LA455115-20:
- Operating Voltage: 28 V DC
- Operating Current: 75 mA
- Power Consumption: 2.1 W
- Lifetime: approx. 10,000 hours
- Luminance: 22 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: White
- Connection: Lead (1,000 mm/39.4“)
- Weight: 0.115 kg/0.254 lbs

Technical Data dimmable LED Dome Light 2LA455115-30:
- Operating Voltage: 28 V DC
- Operating Current: 120 mA
- Power Consumption: 3.4 W
- Lifetime: approx. 10,000 hours
- Luminance: 35 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: Black
- Connection: Flying Leads (1,000 mm/39.4“)
- Weight: 0.140 kg/0.309 lbs

Technical Data dimmable LED Dome Light 2LA455115-31:
- Operating Voltage: 28 V DC
- Operating Current: 120 mA
- Power Consumption: 3.4 W
- Lifetime: approx. 10,000 hours
- Luminance: 35 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: White/Black
- Connection: Flying Leads (1,000 mm/39.4“) + Bonding Lead (400 mm/15.8“)
- Weight: 0.140 kg/0.309 lbs
Rectangular LED Dome Light | 2LA455115-33

- multiple purpose LED dome light
- new SMD LED configuration for uniform light output
- dimmable

Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: 113 mA
- Power Consumption: 3.2 W
- Lifetime: approx. 10,000 hours
- Luminance: 60 cd
- Light Color: Cold White (approx. 6,500 K)
- Color of Housing: White
- Connection: Flying Leads (1,000 mm/39.4’); Dual Feed
- Weight: 0.115 kg/0.254 lbs

Light Distribution
Rectangular LED Dome Light | 1005-052-001

- switchable and dimmable by control distribution centre
- operation modes: full brightness and fixed dim level at 50%
- mounted in the ceiling or wall panel
- mounting with two countersunk screws hidden by the detachable lens

Technical Data:
- Operating Voltage: 28 V DC
- Operating Current: 97 mA
- Power Consumption: 2.7 W
- Lifetime: approx. 40,000 hours
- Luminance: 52 cd min.
- Light Color: Cold White (approx. 5,800 K)
- Color of Lens: transparent, structured
- Connection: Connector J1: SJS830230 according to MIL-T-81714
- Weight: 0.090 kg/0.198 lbs

1005-052-001
Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: 500 mA max.
- Weight: 0.875 kg/1.930 lbs max.
- Connector: with screw locks

- universal interface to the cabin management system
- directs multiple CAN-bus controlled interior lights including dome and wash lights
- suitable for dome lights 2LA455605-XX (page 13) and 2LA455606-XX (page 9)
- control options include on, off and dim functionality
This document does not contain any export controlled technical data.

For additional information:
Goodrich Lighting Systems GmbH
a UTC Aerospace Systems company
Bertramstrasse 8
59557 Lippstadt/Germany
Tel.: +49 2941 7676 0
Fax: +49 2941 7676 8432
www.utcaerospace.com