Goodlight
LED Wash Lights
Latest Technology for Cabin Illumination

Whether you are planning the lighting concept for your new aircraft or you are looking for an alternative to replace general cabin lighting fluorescent tubes in your plane – UTC Aerospace Systems offers a wide range of ceiling and side wall wash light systems.

Goodlight LED Wash Lights feature the following advantages:
- State-of-the-art LED technology
- Long lifetime
- Low power consumption
- Low maintenance effort
- Constant light output and dimmability to 0%
- Uniform light through the whole cabin
- High resistance to shock and vibration
- No risk of breaking glass tubes

Experience and Know-how
UTC Aerospace Systems has more than 20 years of experience in the use of LED technology and was the first to develop an LED reading light for series production in aircraft. Since then, the company has produced more than 500,000 lights.

Studies have shown that the general illumination in the passenger compartment is one of the major items to create an atmosphere of passenger comfort. In cooperation with the “Institute of Light and Color Dynamic” UTC Aerospace Systems has therefore implemented a human factor in the design of its ceiling and side wall illumination by taking special care of the physiological effect of light: Goodlight LED Wash Lights provide a well received and absolutely homogeneous light output.

To guarantee this, it is essential to sort the LEDs according to their color. UTC Aerospace Systems’ in-house LED selection and soldering techniques make sure that only exactly matching LEDs are used for the production of Goodlight LED Wash Lights.

Having understood how much the appearance of the materials in the passenger compartment depends on the light provided, UTC Aerospace Systems only uses LEDs with a significantly high Color Rendering Index. They make the interior of the cabin look very natural.

Wide Range of Light Colors
According to their individual intention, customers may choose from a wide range of Goodlight LED Wash Lights – from unicolor neutral or warm white to white and yellow to state-of-the-art multicolor wash lights that combine either white, amber and blue (WAWB), white amber and red (WAWR) or red, green and blue (RGB) LEDs.

The white light produced by Goodlight LED Wash Lights always features a high Color Rendering Index which supports the natural look of the interior materials.

WAWB Wash Lights 2LA455982-XX provide the full color spectrum of the natural daylight circle – from deep blue to cool white to warm white and yellow.

RGB Wash Lights 2LA455834-XX feature the widest possible color performance. They allow choosing from a palette of 16 million colors including white.

WAWR Wash Lights 2LA456260-XX
Operating Goodlight LED Wash Lights

To ensure the best possible performance of the Goodlight LED Wash Lights using WAWB, WAWR or RGB color technology, customers may choose from the following three different control options:

**Option 1:**
**Data Bus Control from Cabin Management System**

Especially in series aircraft production, it is advantageous to control the Goodlight LED Wash Lights directly from the Cabin Management System. Thanks to an individually configured Data-Bus-Input to the Interior Lighting System Director 8ES455611-20 (see page 9), this option offers the highest level of integration and the best performance.

UTC Aerospace Systems is able to provide such highly sophisticated and customized solutions in cooperation with competent partners like UTC Aerospace Systems Cabin Electronics Systems, Rockwell Collins or Lufthansa Technik.

**Option 2:**
**Control via discrete signals from Cabin Management System**

If the customer intends to produce or retrofit a limited number of aircraft, it is profitable to control the Goodlight LED Wash Lights via discrete signals from the Cabin Management System. The Switch Box 8ES455676-00 (see page 10) transforms these signals and supplies the equivalent Data-Bus input for the Interior Lighting System Director 8ES455674-00 (page 9).

Providing both the Switch Box and the Interior Lighting System Director, UTC Aerospace Systems has optimized the communication between these two devices to ensure an excellent efficiency with low development effort.

**Option 3:**
**Control via discrete signals from Switch Panel**

Even if the aircraft does not feature a Cabin Management System, there is no need to miss the benefits of Goodlight LED Wash Lights. It is also possible to control them with a conventional manual attendant switch panel providing discrete signal inputs to the Switch Box 8ES455676-00 (see page 10) which then sends Data-Bus input to the Interior Lighting System Director 8ES455674-00 (see page 9). Therefore, this option can be the ideal retrofit solution.

A sophisticated communication between the Switch Box and the Lighting System Director – both offered by UTC Aerospace Systems – is guaranteed.
With their specific configuration of white, amber and blue LEDs the WAWB Wash Lights produce a variable light that can be changed from deep blue to a very homogeneous cool white to warm white and yellow. Having a significantly high Color Rendering Index, the neutral white light makes the materials in the cabin appear as natural as possible. This effect is also supported by the special full spectrum amber LEDs. The color mixing system allows various presets for boarding, cruise, cabin movie viewing, candle light dinner, working atmosphere and others as well as the most often chosen mood light setting with a blue ceiling and amber sideline illumination. WAWB Wash Lights even provide the full color spectrum of the natural daylight circle to create an ambience of sunrise or sunset.

Technical Data:
- Driven by Power Supply 8ES455618-10 or 8ES456261-00 (see page 8)
- Completely dimmable with constant light intensity and color temperature
- 13 different lengths available (see variant table for details)
- Lifetime: up to 30,000 operating hours

<table>
<thead>
<tr>
<th>Part-Number</th>
<th>Length</th>
<th>Weight</th>
<th>Operation Current</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2LA455982-00/-50</td>
<td>296.6 mm ± 0.5/11.7&quot; ± 0.02</td>
<td>0.14 kg/0.31 lbs max.</td>
<td>160 mA ± 10 %</td>
<td>4.9 W max.</td>
</tr>
<tr>
<td>2LA455982-01/-51</td>
<td>363 mm ± 0.5/14.3&quot; ± 0.02</td>
<td>0.16 kg/0.35 lbs max.</td>
<td>230 mA ± 10 %</td>
<td>7.1 W max.</td>
</tr>
<tr>
<td>2LA455982-02/-52</td>
<td>182.5 mm ± 0.5/7.2&quot; ± 0.02</td>
<td>0.11 kg/0.24 lbs max.</td>
<td>140 mA ± 10 %</td>
<td>4.3 W max.</td>
</tr>
<tr>
<td>2LA455982-03/-53</td>
<td>477 mm ± 0.5/18.8&quot; ± 0.02</td>
<td>0.20 kg/0.44 lbs max.</td>
<td>300 mA ± 10 %</td>
<td>9.2 W max.</td>
</tr>
<tr>
<td>2LA455982-04/-54</td>
<td>544 mm ± 0.5/21.4&quot; ± 0.02</td>
<td>0.22 kg/0.49 lbs max.</td>
<td>370 mA ± 10 %</td>
<td>11.4 W max.</td>
</tr>
<tr>
<td>2LA455982-05/-55</td>
<td>592 mm ± 0.5/23.3&quot; ± 0.02</td>
<td>0.24 kg/0.53 lbs max.</td>
<td>320 mA ± 10 %</td>
<td>9.9 W max.</td>
</tr>
<tr>
<td>2LA455982-06/-56</td>
<td>658 mm ± 0.5/25.9&quot; ± 0.02</td>
<td>0.26 kg/0.57 lbs max.</td>
<td>390 mA ± 10 %</td>
<td>12 W max.</td>
</tr>
<tr>
<td>2LA455982-07/-57</td>
<td>724.5 mm ± 0.5/28.5&quot; ± 0.02</td>
<td>0.29 kg/0.64 lbs max.</td>
<td>460 mA ± 10 %</td>
<td>14.2 W max.</td>
</tr>
<tr>
<td>2LA455982-08/-58</td>
<td>772 mm ± 0.5/30.4&quot; ± 0.02</td>
<td>0.31 kg/0.68 lbs max.</td>
<td>460 mA ± 10 %</td>
<td>14.2 W max.</td>
</tr>
<tr>
<td>2LA455982-09/-59</td>
<td>838.5 mm ± 0.5/33&quot; ± 0.02</td>
<td>0.33 kg/0.73 lbs max.</td>
<td>530 mA ± 10 %</td>
<td>16.3 W max.</td>
</tr>
<tr>
<td>2LA455982-10/-60</td>
<td>887 mm ± 0.5/34.9&quot; ± 0.02</td>
<td>0.34 kg/0.75 lbs max.</td>
<td>480 mA ± 10 %</td>
<td>14.8 W max.</td>
</tr>
<tr>
<td>2LA455982-11/-61</td>
<td>952.5 mm ± 0.5/37.5&quot; ± 0.02</td>
<td>0.37 kg/0.82 lbs max.</td>
<td>550 mA ± 10 %</td>
<td>16.9 W max.</td>
</tr>
<tr>
<td>2LA455982-12/-62</td>
<td>1,019 mm ± 0.5/40.1&quot; ± 0.02</td>
<td>0.39 kg/0.86 lbs max.</td>
<td>620 mA ± 10 %</td>
<td>19.1 W max.</td>
</tr>
</tbody>
</table>

Part-Numbers 2LA455982-00 to -12 with Deutsch plug shell connector ABC06N-22P.
Other connectors for individual installation situations available on request.
Using a special combination of white, amber and red LEDs, these wash lights produce a variable light which can be changed from a very uniform white with a high Color Rendering Index to a warm white to yellow and full red. Providing a wide bandwidth of homogeneous warm colors, WAWR Wash Lights create an ambience of daylight inside the cabin. They also allow the customer to define presets for various mood enhancing lighting situations to create different atmospheres. The featured range of warm colors especially supports relaxation during the flight. Many airlines prefer WAWR Wash Lights because of this characteristic benefit.

### Technical Data:
- Driven by Power Supply 8ES45618-10 or 8ES456261-00 (see page 8)
- Completely dimmable with constant light intensity and color temperature
- 13 different lengths available (see variant table for details)
- Lifetime: up to 30,000 operating hours

### Part-Numbers

<table>
<thead>
<tr>
<th>Part-Number</th>
<th>Length</th>
<th>Weight</th>
<th>Operation Current</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2LA456260-00/-20</td>
<td>296.6 mm ± 0.5/11.7” ± 0.02</td>
<td>0.14 kg/0.31 lbs max.</td>
<td>160 mA ± 10 %</td>
<td>4.9 W max.</td>
</tr>
<tr>
<td>2LA456260-01/-21</td>
<td>363 mm ± 0.5/14.3” ± 0.02</td>
<td>0.16 kg/0.35 lbs max.</td>
<td>230 mA ± 10 %</td>
<td>7.1 W max.</td>
</tr>
<tr>
<td>2LA456260-02/-22</td>
<td>182.5 mm ± 0.5/7.2” ± 0.02</td>
<td>0.11 kg/0.24 lbs max.</td>
<td>140 mA ± 10 %</td>
<td>4.3 W max.</td>
</tr>
<tr>
<td>2LA456260-03/-23</td>
<td>477 mm ± 0.5/18.8” ± 0.02</td>
<td>0.20 kg/0.44 lbs max.</td>
<td>300 mA ± 10 %</td>
<td>9.2 W max.</td>
</tr>
<tr>
<td>2LA456260-04/-24</td>
<td>544 mm ± 0.5/21.4” ± 0.02</td>
<td>0.22 kg/0.49 lbs max.</td>
<td>370 mA ± 10 %</td>
<td>11.4 W max.</td>
</tr>
<tr>
<td>2LA456260-05/-25</td>
<td>592 mm ± 0.5/23.3” ± 0.02</td>
<td>0.24 kg/0.53 lbs max.</td>
<td>320 mA ± 10 %</td>
<td>9.9 W max.</td>
</tr>
<tr>
<td>2LA456260-06/-26</td>
<td>658 mm ± 0.5/25.9” ± 0.02</td>
<td>0.26 kg/0.57 lbs max.</td>
<td>390 mA ± 10 %</td>
<td>12 W max.</td>
</tr>
<tr>
<td>2LA456260-07/-27</td>
<td>724.5 mm ± 0.5/28.5” ± 0.02</td>
<td>0.29 kg/0.64 lbs max.</td>
<td>460 mA ± 10 %</td>
<td>14.2 W max.</td>
</tr>
<tr>
<td>2LA456260-08/-28</td>
<td>772 mm ± 0.5/30.4” ± 0.02</td>
<td>0.31 kg/0.68 lbs max.</td>
<td>460 mA ± 10 %</td>
<td>14.2 W max.</td>
</tr>
<tr>
<td>2LA456260-09/-29</td>
<td>838.5 mm ± 0.5/33” ± 0.02</td>
<td>0.33 kg/0.73 lbs max.</td>
<td>530 mA ± 10 %</td>
<td>16.3 W max.</td>
</tr>
<tr>
<td>2LA456260-10/-30</td>
<td>887 mm ± 0.5/34.9” ± 0.02</td>
<td>0.34 kg/0.75 lbs max.</td>
<td>480 mA ± 10 %</td>
<td>14.8 W max.</td>
</tr>
<tr>
<td>2LA456260-11/-31</td>
<td>952.5 mm ± 0.5/37.5” ± 0.02</td>
<td>0.37 kg/0.82 lbs max.</td>
<td>550 mA ± 10 %</td>
<td>16.9 W max.</td>
</tr>
<tr>
<td>2LA456260-12/-32</td>
<td>1,019 mm ± 0.5/40.1” ± 0.02</td>
<td>0.39 kg/0.86 lbs max.</td>
<td>620 mA ± 10 %</td>
<td>19.1 W max.</td>
</tr>
</tbody>
</table>

All Part-Numbers with Deutsch plug shell connector ABC06N-22P.
Other connectors for individual installation situations available on request.
With RGB technology, the choice of colors is endless. By using the same principal found in color television screens, three different LEDs form a triple. Mixing red, green and blue these Goodlight LED Wash Lights provide the widest range of color performance: a palette of 16 million colors including white. Presets allow the customer to define different mood enhancing light colors for pre-selected areas of the passenger cabin. It is even possible to provide a totally different ambience with the touch of only one switch.

### Technical Data:

- Driven by Power Supply 8ES455618-10 or 8ES456261-00 (see page 8)
- Completely dimmable with constant light intensity and color temperature
- 13 different lengths available (see variant table for details)
- Lifetime: up to 20,000 operating hours

<table>
<thead>
<tr>
<th>Part-Number</th>
<th>Cable left</th>
<th>Cable right</th>
<th>Length</th>
<th>Weight</th>
<th>Operation Current</th>
<th>Power Consumption</th>
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<tbody>
<tr>
<td>2LA455834-00/-50</td>
<td>-20/-70</td>
<td>296.6 mm ± 0.5/11.7” ± 0.02</td>
<td>0.14 kg/0.31 lbs max.</td>
<td>220 mA ± 10 %</td>
<td>6.8 W max.</td>
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<tr>
<td>2LA455834-01/-51</td>
<td>-21/-71</td>
<td>363 mm ± 0.5/14.3” ± 0.02</td>
<td>0.16 kg/0.35 lbs max.</td>
<td>275 mA ± 10 %</td>
<td>8.5 W max.</td>
<td></td>
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<tr>
<td>2LA455834-02/-52</td>
<td>-22/-72</td>
<td>182.5 mm ± 0.5/7.2” ± 0.02</td>
<td>0.11 kg/0.24 lbs max.</td>
<td>170 mA ± 10 %</td>
<td>5.2 W max.</td>
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</tr>
<tr>
<td>2LA455834-03/-53</td>
<td>-23/-73</td>
<td>477 mm ± 0.5/18.8” ± 0.02</td>
<td>0.20 kg/0.44 lbs max.</td>
<td>390 mA ± 10 %</td>
<td>12.1 W max.</td>
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<tr>
<td>2LA455834-04/-54</td>
<td>-24/-74</td>
<td>544 mm ± 0.5/21.4” ± 0.02</td>
<td>0.22 kg/0.49 lbs max.</td>
<td>445 mA ± 10 %</td>
<td>13.8 W max.</td>
<td></td>
</tr>
<tr>
<td>2LA455834-05/-55</td>
<td>-25/-75</td>
<td>592 mm ± 0.5/23.3” ± 0.02</td>
<td>0.24 kg/0.53 lbs max.</td>
<td>440 mA ± 10 %</td>
<td>13.5 W max.</td>
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<tr>
<td>2LA455834-06/-56</td>
<td>-26/-76</td>
<td>658 mm ± 0.5/25.9” ± 0.02</td>
<td>0.26 kg/0.57 lbs max.</td>
<td>495 mA ± 10 %</td>
<td>15.3 W max.</td>
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<tr>
<td>2LA455834-07/-57</td>
<td>-27/-77</td>
<td>724.5 mm ± 0.5/28.5” ± 0.02</td>
<td>0.29 kg/0.64 lbs max.</td>
<td>550 mA ± 10 %</td>
<td>17.0 W max.</td>
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<tr>
<td>2LA455834-08/-58</td>
<td>-28/-78</td>
<td>772 mm ± 0.5/30.4” ± 0.02</td>
<td>0.31 kg/0.68 lbs max.</td>
<td>610 mA ± 10 %</td>
<td>18.9 W max.</td>
<td></td>
</tr>
<tr>
<td>2LA455834-09/-59</td>
<td>-29/-79</td>
<td>838.5 mm ± 0.5/33” ± 0.02</td>
<td>0.33 kg/0.73 lbs max.</td>
<td>665 mA ± 10 %</td>
<td>20.6 W max.</td>
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<tr>
<td>2LA455834-10/-60</td>
<td>-30/-80</td>
<td>887 mm ± 0.5/34.9” ± 0.02</td>
<td>0.34 kg/0.75 lbs max.</td>
<td>660 mA ± 10 %</td>
<td>20.3 W max.</td>
<td></td>
</tr>
<tr>
<td>2LA455834-11/-61</td>
<td>-31/-81</td>
<td>952.5 mm ± 0.5/37.5” ± 0.02</td>
<td>0.37 kg/0.82 lbs max.</td>
<td>715 mA ± 10 %</td>
<td>22.1 W max.</td>
<td></td>
</tr>
<tr>
<td>2LA455834-12/-62</td>
<td>-32/-82</td>
<td>1,019 mm ± 0.5/40.1” ± 0.02</td>
<td>0.39 kg/0.86 lbs max.</td>
<td>770 mA ± 10 %</td>
<td>23.8 W max.</td>
<td></td>
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</table>

Part-Numbers 2LA455834-00 to -32 with Deutsch plug shell connector ABC06N-22P.
Part-Numbers 2LA455834-50 to -82 with Tyco Electronics MATE-N-LOK plug shell connector AMP 350715-4.
Other connectors for individual installation situations available on request.
Each of these Power Supplies drives up to four WAWB, WAWR or RGB Wash Lights with a total power consumption of up to 80 W. It is controlled by one of the Interior Lighting System Directors 8ES455611-20 or 8ES455674-00 (see page 9).

**Technical Data 8ES455618-10:**
- Input Voltage: 28 V DC
- Input Current: 3.8 A max.
- Output Voltage: 28 V DC
- Output Current single channel: 1 A max.
- Total Output Power: 80 W max.
- Weight: 0.65 kg/1.43 lbs max.

**Technical Data 8ES456261-00:**
- Input Voltage: 115 V AC
- Input Current: 1.05 A max.
- Output Voltage: 28 V DC
- Output Current single channel: 1 A max.
- Total Output Power: 80 W max.
- Weight: 0.85 kg/1.87 lbs max.

**Cable Assy 8KA413305-02**
For the connection of two wash lights to their power supply, one Cable Assy is needed. 8KA413305-02 matches all wash lights with a Tyco Electronics MATE-N-LOK plug shell connector AMP 350715-4 and has a length of 1.0 m/39.37".
8ES455611-20

The Interior Lighting System Director 8ES455611-20 receives Data-Bus input from the Cabin Management System and controls the interior lighting system via CAN-Bus as described in Control Option 1 on page 4. Besides the wash lights, this may also include for example dome, accent or mirror lights. Control opportunities comprise switching the lights on or off, dimming and changing the light color. Together with the Power Supply 8ES456261-00 for 115 V DC or 8ES455618-10 for 28 V DC (see page 8) this Interior Lighting System Director offers a very smooth color transition.

Technical Data:
• Operating Voltage: 28 V DC
• Operating Current: 0.5 A max.
• Weight: 0.875 kg / 1.930 lbs max.
• Connector: with screw locks

8ES455674-00

This director is almost similar to 8ES455611-20. Having the same technical data, it features a prompt color transition and allows mood light settings. Its software has been adapted to the requirements of the Switch Box 8ES455676-00 (see page 10), and its connectors therefore provide slide locks. So the combination of both devices provides the ideal solution for the control options 2 and 3 as described on page 4.

On request, UTC Aerospace Systems is also able to offer an Interior Lighting System Director providing a smooth color transition when being operated together with the Switch Box 8ES455676-00.
The Switch Box receives discrete signals either from the Cabin Management System or from a switch panel, transforms them into an equivalent Data-Bus input and sends it to the Interior Lighting System Director 8ES455674-00 (see page 9). UTC Aerospace Systems has optimally adapted these two devices to each other to achieve the best possible communication between them.

**Technical Data:**

- Operating Voltage: 28 V DC
- Operating Current: 0.15 A max.
- Weight: 0.4 kg/0.882 lbs max.
Warm White Wash Lights | 2LA455734-XX

If color mixing options are not required, these wash lights provide an ideal solution:
Producing a homogeneous warm white flood light comparable to incandescent lighting for the general cabin illumination, they can be directly operated by the 28 V power system of the aircraft. Featuring an additional dimming line, these LED Wash Lights can be controlled by the Dimming Unit 5XA411116-00 (see page 12). They provide a uniform white tone at any dim level.

Technical Data:
- Color temperature: 3,000 K
- Color Rendering Index: 78
- 13 different lengths available (see variant table for details)
- Lifetime: up to 20,000 operating hours

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<tr>
<td>2LA455734-00</td>
<td>296.6 mm ± 0.5/11.7&quot; ± 0.02</td>
<td>0.14 kg/0.31 lbs max.</td>
<td>235 mA ± 10 %</td>
<td>7.2 W max.</td>
</tr>
<tr>
<td>2LA455734-01</td>
<td>363 mm ± 0.5/14.3&quot; ± 0.02</td>
<td>0.16 kg/0.35 lbs max.</td>
<td>290 mA ± 10 %</td>
<td>8.9 W max.</td>
</tr>
<tr>
<td>2LA455734-02</td>
<td>182.5 mm ± 0.5/7.2&quot; ± 0.02</td>
<td>0.11 kg/0.24 lbs max.</td>
<td>160 mA ± 10 %</td>
<td>4.9 W max.</td>
</tr>
<tr>
<td>2LA455734-03</td>
<td>477 mm ± 0.5/18.8&quot; ± 0.02</td>
<td>0.20 kg/0.44 lbs max.</td>
<td>395 mA ± 10 %</td>
<td>12.1 W max.</td>
</tr>
<tr>
<td>2LA455734-04</td>
<td>544 mm ± 0.5/21.4&quot; ± 0.02</td>
<td>0.22 kg/0.49 lbs max.</td>
<td>450 mA ± 10 %</td>
<td>13.8 W max.</td>
</tr>
<tr>
<td>2LA455734-05</td>
<td>592 mm ± 0.5/23.3&quot; ± 0.02</td>
<td>0.24 kg/0.53 lbs max.</td>
<td>470 mA ± 10 %</td>
<td>14.4 W max.</td>
</tr>
<tr>
<td>2LA455734-06</td>
<td>658 mm ± 0.5/25.9&quot; ± 0.02</td>
<td>0.26 kg/0.57 lbs max.</td>
<td>525 mA ± 10 %</td>
<td>16.1 W max.</td>
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<tr>
<td>2LA455734-07</td>
<td>724.5 mm ± 0.5/28.5&quot; ± 0.02</td>
<td>0.29 kg/0.64 lbs max.</td>
<td>580 mA ± 10 %</td>
<td>17.8 W max.</td>
</tr>
<tr>
<td>2LA455734-08</td>
<td>772 mm ± 0.5/30.4&quot; ± 0.02</td>
<td>0.31 kg/0.68 lbs max.</td>
<td>630 mA ± 10 %</td>
<td>19.3 W max.</td>
</tr>
<tr>
<td>2LA455734-09</td>
<td>838.5 mm ± 0.5/33&quot; ± 0.02</td>
<td>0.33 kg/0.73 lbs max.</td>
<td>685 mA ± 10 %</td>
<td>21.0 W max.</td>
</tr>
<tr>
<td>2LA455734-10</td>
<td>887 mm ± 0.5/34.9&quot; ± 0.02</td>
<td>0.34 kg/0.75 lbs max.</td>
<td>705 mA ± 10 %</td>
<td>21.6 W max.</td>
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<tr>
<td>2LA455734-11</td>
<td>952.5 mm ± 0.5/37.5&quot; ± 0.02</td>
<td>0.37 kg/0.82 lbs max.</td>
<td>760 mA ± 10 %</td>
<td>23.3 W max.</td>
</tr>
<tr>
<td>2LA455734-12</td>
<td>1,019 mm ± 0.5/40.1&quot; ± 0.02</td>
<td>0.39 kg/0.86 lbs max.</td>
<td>815 mA ± 10 %</td>
<td>25.0 W max.</td>
</tr>
</tbody>
</table>

All Part-Numbers with Tyco Electronics MATE-N-LOK plug shell connector AMP 350715-4. Other connectors for individual installation situations available on request.
This Dimming Unit is the ideal device to control the brightness of the Warm White Wash Lights 2LA455734-XX (see page 11). It converts 28 V DC into a pulse width modulated dimming signal. This guarantees that the LEDs are always operated with the nominal current and therefore do not change their white tone in dimmed mode. By turning the control knob, the brightness is set to the desired level. By pushing it, all lights are switched on or off.

**Technical Data:**
- Operating Voltage: 28 V DC
- Operating Current: 2.1 A max.
- Output Current: 2 x 1 A max.
- Dimming steps: 100
- Weight: 0.170 kg/0.375 lbs max.
UTC Aerospace Systems offers different options for common lighting situations that only require a single-color light which can be turned on or off by using a switch. The lights presented on pages 13 and 14 do not need any extra devices as they can be operated directly from the 28 V power system of the aircraft.

**Unicolor Wash Lights**

**White Yellow Wardrobe Lights 2LA455829-00**

If a bundled light beam is required, these lights provide a good solution. They feature a neutral white light tone and a 60° beam angle and have been optimized for example for the use in wardrobes and closets.

**Technical Data:**

- Operating Voltage: 28 V DC
- Operating Current: 190 mA ± 10%
- Power Consumption: 5.5 W
- Color temperature: 4,000 K
- Color Rendering Index: 72
- Beam Spread: 60°
- Length: 296.6 mm ± 0.5/11.7" ± 0.02
- Weight: 0.15 kg/0.33 lbs max.
- Contacts: for pluggable connector
- Lifetime: up to 20,000 operating hours
Unicolor Wash Lights

2LA455919-00/-10

Featuring a uniform scattered light with a beam spread of 100° these Wash Lights have been optimized for the installation behind an additional lens. Available with a white or sky blue light color, they may be used for instance to illuminate glass cabinets or to provide accent or ambient lighting.

Technical Data:

- Operating Voltage: 28 V DC
- Operating Current: 190 mA ± 10 %
- Power Consumption: 5.5 W
- Light 2LA455919-00:
  - Color: White
  - Color Temperature: 4,000 K
  - Color Rendering Index: 72
- Light 2LA455919-10:
  - Color: Sky Blue
- Beam Spread: 100°
- Length: 296.6 mm ± 0.5/11.7" ± 0.02
- Weight: 0.15 kg/0.33 lbs max.
- Contacts: for pluggable connector
- Lifetime: up to 20,000 operating hours
Unicolor Wash Lights

Neutral White Wash Lights
2LA456014-XX

These wash lights offer the ideal retrofit option for customers who would like to replace the general lighting fluorescent tubes in the passenger cabin, galleys and lavatories. They substitute the ballast units and carriers of the fluorescent tubes using the existing space envelope, electrical interface points and operation modes. So this LED Wash Light Retrofit Kit features an easy installation.

Technical Data:
- Light Color: Neutral White
- Color temperature: 4,100 K
- Color Rendering Index: above 80
- Adjustability: 0 % and 100 % light intensity and dim levels of 10 % and 50 %
- Light beam angle: 60°
- Lifetime: 30,000 operating hours
- Operating mode: integrated power supply powered directly from 115 VAC 400 Hz bus

Part-Number Length Weight Operation Current Power Consumption

<table>
<thead>
<tr>
<th>Part-Number</th>
<th>Length</th>
<th>Weight</th>
<th>Operation Current</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2LA456014-00/-50</td>
<td>311 mm/12.24&quot;</td>
<td>0.32 kg/0.71 lbs max.</td>
<td>100 mA ± 40 %</td>
<td>12 W max.</td>
</tr>
<tr>
<td>2LA456014-01/-51</td>
<td>470 mm/18.54&quot;</td>
<td>0.41 kg/0.91 lbs max.</td>
<td>110 mA ± 40 %</td>
<td>16 W max.</td>
</tr>
<tr>
<td>2LA456014-02/-52</td>
<td>619 mm/24.37&quot;</td>
<td>0.51 kg/1.13 lbs max.</td>
<td>140 mA ± 40 %</td>
<td>20 W max.</td>
</tr>
<tr>
<td>2LA456014-03/-53</td>
<td>926 mm/36.46&quot;</td>
<td>0.71 kg/1.56 lbs max.</td>
<td>190 mA ± 40 %</td>
<td>30 W max.</td>
</tr>
<tr>
<td>2LA456014-04/-54</td>
<td>1,233 mm/48.54&quot;</td>
<td>0.90 kg/1.99 lbs max.</td>
<td>240 mA ± 40 %</td>
<td>36 W max.</td>
</tr>
</tbody>
</table>

Part-Numbers 2LA456014-00 to -04 with Tyco Electronics Mini-Universal MATE-N-LOK Splash Proof Sealed Connector 794941-1.
Part-Numbers 2LA456014-50 to -54 with Amphenol Series 1720 Push-Pull Connector ABS0364B10PC.

Other connectors for individual installation situations available on request.