Indoor positioning

Philips now introduces InstantFit LED T8 VLC lamps – retrofit LED lamps that are ready for Philips Indoor Positioning System. Lamps are designed to deliver high-quality light and light up the store with significant energy savings compared to fluorescent lamps. Product features the patented Philips Visible Light Communications (VLC) technology, and automatically sends out a unique code to enable location-based services, without adding any additional hardware in the future!

Visible Light Communications
• Compatible with Philips Indoor Positioning system.
• VLC signal can be adjusted with IR remote control
• Infrared detection range 6m (19.7ft)

Compatibility
• Innovative driver design, compatible with verified electronic ballast and LED driver
• Quick and easy installation
• Works with many fixture types

Reliability
• Reliable operation between -20°C and +45°C ambient temperature
• Rated for 70,000 hrs (B50L70) while using normal BF ballast
• 50,000 switching cycles
• Nominal code detection range 18ft (6m)

User Comfort
• CRI 82
• Advanced optical design that ensures uniform light output and superior optical efficiency

Energy Savings
• Energy savings of 50% or more compared to F32T8
• DLC listed

Safety
• Over voltage and over temperature protection
• Complies with UL safety requirement

See footnotes on next page.
Philips InstantFit LED lamps

Ordering, electrical and technical data  (Subject to change without notice)

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Model Number(s)</th>
<th>DLC Product ID</th>
<th>Ordering Code</th>
<th>Volts (Depending on Ballast)</th>
<th>Base</th>
<th>CRI</th>
<th>Color Temp.(K)</th>
<th>Pkg Qty</th>
<th>LED Lifetime $^{4,5}$</th>
<th>MOL (In.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>52998-1</td>
<td>9290018701</td>
<td>Pending</td>
<td>14T8/48-835/IF20/VLC 10/1</td>
<td>120-277, 347</td>
<td>G13</td>
<td>82</td>
<td>3500</td>
<td>10</td>
<td>70,000</td>
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<td>52999-9</td>
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Ballast technical data  (Subject to change without notice)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Bare Lamp Watts (W)</th>
<th>Average System Watts (W)</th>
<th>Initial Lumens</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Low Ballast Factor (0.78)</td>
<td>Normal Ballast Factor (0.88)</td>
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<tr>
<td>52998-1</td>
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Shipping Data  (Subject to change without notice)

<table>
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<tr>
<th>Product Number</th>
<th>SKU UPC (0-46677)</th>
<th>Outer Bar Code (5-00-46677)</th>
<th>Case Qty.</th>
<th>Case Weight (lbs.)</th>
<th>Case Cube (cu. Ft.)</th>
<th>Pallet Qty</th>
<th>Lamps/SKU</th>
<th>SKUs per Layer</th>
<th>Layers High</th>
<th>SKU Dimensions (W x D x H) (In.)</th>
<th>Case Dimensions (W x D x H) (In.)</th>
<th>Pallet Dimensions (W x D x H) (In.)</th>
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<tbody>
<tr>
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<td>52998-7</td>
<td>52998-2</td>
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<td>0.60</td>
<td>550</td>
<td>1</td>
<td>50</td>
<td>11</td>
<td>48.0 x 11 x 11</td>
<td>49.5 x 71 x 3.9</td>
<td>50.6 x 39.4 x 48.3</td>
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<tr>
<td>52999-9</td>
<td>52999-4</td>
<td>52999-9</td>
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<td>550</td>
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</tr>
</tbody>
</table>

1. Fixture must be tested to verify operation with the VLC system.
2. Savings based on comparison to F32T8 electronic instant start systems.
3. Photometric testing consistent with IES LM-79.
4. Tested to B50 L70 requirement.
5. LED lifetime means the length of time (in hours) until half of the LED light sources maintain at least 70% of their initial lumen output (B50, L70).
6. Product is not dimmable.
7. Modifications to the product void the warranty.

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