

Project Name

Qty

Type

Catalog / Part Number



7 Year Warranty



Distribution Type



Type  
Symmetric

CCT - Color Temp (K)

2,700K

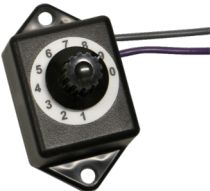
3,000K

3,500K

4,000K

5,000K

Optional Fixed Dimming Resistor Board



Fixed Dimming Resistor  
Board

Certifications



Description

The versatile VCOB-GXXDF conversion kit transforms existing Sternberg Decorative Fitter (DF) Globe luminaires into energy-efficient luminaires at significantly reduced maintenance costs. The wide variety of options makes this the industry's choice when converting from conventional lamp sources to energy-efficient lighting; made by Sternberg Lighting for Sternberg Lighting.

Physical

|                         |                                                                                                                                                                                                                                                                            |                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Series                  | VCOB-G16DF: Existing 16" Globe, LED Conversion Kit<br>VCOB-G18DF: Existing 18" Globe, LED Conversion Kit<br>VCOB-G20DF: Existing 20" Globe, LED Conversion Kit<br>VCOB-G22DF: Existing 22" Globe, LED Conversion Kit<br>VCOB-G24DF: Existing 24" Globe, LED Conversion Kit |                          |
| Optional Driver Housing | 682: Driver Housing Cover (Required for units manufactured prior to 2004)                                                                                                                                                                                                  |                          |
| Light Source            | LED4L: 4 LEDs                                                                                                                                                                                                                                                              |                          |
| CCT - Color Temp (K)    | 27: 2,700K<br>35: 3,500K<br>50: 5,000K                                                                                                                                                                                                                                     | 30: 3,000K<br>40: 4,000K |
| Distribution Type       | TS: Type Symmetric<br>TA: Type Asymmetric                                                                                                                                                                                                                                  |                          |

Electrical and control

|        |                                                                               |                                                                               |
|--------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Driver | MDL02: 120V-277V, 250mA<br>MDL03: 120V-277V, 350mA<br>MDL05: 120V-277V, 500mA | MDH02: 347V-480V, 250mA<br>MDH03: 347V-480V, 350mA<br>MDH05: 347V-480V, 500mA |
|--------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|

Features

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Optional Fixed Dimming Resistor Board | FDRB: Fixed Dimming Resistor Board |
|---------------------------------------|------------------------------------|

How to Order

| Series <sup>(1)</sup>                                       | LED                 | CCT - Color Temp (K) | Distribution Type                                               | Driver                           | Optional Driver Housing <sup>(2)</sup>                                                | Optional Fixed Dimming Resistor Board       |
|-------------------------------------------------------------|---------------------|----------------------|-----------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------|
| <b>VCOB-G16DF</b><br>Existing 16" Globe, LED Conversion Kit | <b>4L</b><br>4 LEDs | <b>27</b><br>2,700K  | <b>TS</b><br>Type Symmetric<br><br><b>TA</b><br>Type Asymmetric | <b>MDL02</b><br>120V-277V, 250mA | <b>682</b><br>Driver Housing Cover<br>(Required for units manufactured prior to 2004) | <b>FDRB</b><br>Fixed Dimming Resistor Board |
| <b>VCOB-G18DF</b><br>Existing 18" Globe, LED Conversion Kit |                     | <b>30</b><br>3,000K  |                                                                 | <b>MDH02</b><br>347V-480V, 250mA |                                                                                       |                                             |
| <b>VCOB-G20DF</b><br>Existing 20" Globe, LED Conversion Kit |                     | <b>35</b><br>3,500K  |                                                                 | <b>MDL03</b><br>120V-277V, 350mA |                                                                                       |                                             |
| <b>VCOB-G22DF</b><br>Existing 22" Globe, LED Conversion Kit |                     | <b>40</b><br>4,000K  |                                                                 | <b>MDH03</b><br>347V-480V, 350mA |                                                                                       |                                             |
| <b>VCOB-G24DF</b><br>Existing 24" Globe, LED Conversion Kit |                     | <b>50</b><br>5,000K  |                                                                 | <b>MDL05</b><br>120V-277V, 500mA |                                                                                       |                                             |
| <b>VCOB-G24DF</b><br>Existing 24" Globe, LED Conversion Kit |                     |                      |                                                                 | <b>MDH05</b><br>347V-480V, 500mA |                                                                                       |                                             |

Notes:

1. For use with Decorative Filter Globe luminaires only.
2. Required for units manufactured prior to 2004.

Specifications

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEDs                                | <p>The luminaire shall use high output, high brightness LEDs, consisting of a two piece assembly complete with Chip on Board (COB) LED component and COB holder frame. The LEDs shall be 100% recyclable; not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. Lumen maintenance shall be determined in accordance with IESNA TM-21, based on LED manufacturer LM-80 test data of no less than 6,000 hours and in-situ testing of the luminaire by an NVLAP accredited Energy Efficient Lighting Products lab. The high performance white LED's will have a predicted lumen depreciation of approximately 100,000 hours with greater than 70% of initial output at 25°C. The High Brightness, High Output LEDs shall be 4000K (2700K, 3000K, 3500K or 5000K option) correlated color temperature (CCT) with a 70 (minimum) color rendering index (CRI). Consult factory for custom color CCT. The luminaire shall have a minimum _____ (see table) delivered initial lumen rating when operated at steady state with an average ambient temperature of 25°C (77°F).</p> <p><b>CCT Lumen Derate Values from 4,000K</b></p> <p>2,700K (80+ CRI)=.88</p> <p>3,000K (70+ CRI)=.97</p> <p>3,500K (80+ CRI)=.93</p> <p>5,000K (70+ CRI)=1.01</p> |
| UL Listing                          | UL listed per UL1598 and CSA C22.2 No. 250.0 for the United States and Canada. Suitable for Wet Locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electronic Driver                   | <p>The LED driver is UL recognized and will be securely mounted inside the fixture, for optimized performance and longevity. It will be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections for fixture installation and maintenance. It will have DC voltage output and be a constant current design. It runs at 50/60HZ and will have overload, overheat, and short circuit protection. It will be supplied with a supplemental line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It will be a high efficiency driver with a THD less than 20% and a high-power factor greater than .9. It will be dimming capable using a 0-10V signal, consult factory for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Fixed Dimming Resistor Board (FDRB) | Optional numbered 10-step selector switch allows for fine adjustment of the light levels in the field, repeatable from location to location. Offers dimming from 25% to 100% of the original output. Enclosure is composite material, sealed to protect components for the life of the product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Warranty                            | 7-year limited warranty. See Website for Terms and Conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Lumen Chart(s)

| Model #      | DELIVERED LUMENS | BUG    | EFFICACY (LPW) | WATTAGE |
|--------------|------------------|--------|----------------|---------|
| 4L40__-MDL05 | 8450             | B1U5G2 | 108.3          | 78      |
| 4L30__-MDL05 | 8185             | B1U5G2 | 104.9          | 78      |
| 4L27__-MDL05 | 7440             | B1U5G2 | 95.4           | 78      |
| 4L40__-MDL03 | 5895             | B2U5G3 | 109.2          | 54      |
| 4L30__-MDL03 | 5710             | B2U5G3 | 105.7          | 54      |
| 4L27__-MDL03 | 5190             | B2U5G3 | 96.1           | 54      |
| 4L40__-MDL02 | 4145             | B2U5G3 | 109.1          | 38      |
| 4L30__-MDL02 | 4015             | B2U5G3 | 105.7          | 38      |
| 4L27__-MDL02 | 3650             | B2U5G3 | 96.1           | 38      |