

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



CCT - Color Temperature (K)



7 Year Warranty



Certifications



Description

The versatile VCOB-9930 conversion kit transforms existing Sternberg 9930 Gettysburg 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-9930: Gettysburg, LED Conversion Kit
Optional Driver Housing	682: Driver Housing Cover (Required for units manufactured prior to 2004)
Optional Internal Diffusing Lens	SV2: Cylindrical Soft Vue Medium Diffused Acrylic SV4: Cylindrical Soft Vue Maximum Diffused Acrylic

Light Source

LED	4L	
CCT - Color Temperature (K)	27: 2,700K 35: 3,500K 50: 5,000K	30: 3,000K 40: 4,000K
Distribution Type	TS: Type Symmetric	TA: Type Asymmetric

Electrical and control

Driver	MDL02: 120V-277V, 250mA MDL03: 120V-277V, 350mA MDL05: 120V-277V, 500mA	MDH02: 347V-480V, 250mA MDH03: 347V-480V, 350mA MDH05: 347V-480V, 500mA
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Features

Option Fixed Dimming Resistor Board	FDRB: Fixed Dimming Resistor Board
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Specifications

LEDs	<p>The luminaire shall use high output, high brightness LED's, 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 LEDs 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 LED's 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>CCT Lumen Derate Values from 4,000K</p> <p>2,700K (80+ CRI)=.89 3,000K (70+ CRI)=.97 3,500K (80+ CRI)=.93 5,000K (70+ CRI)=1.01</p>
Optics	<p>The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ____ (Symmetric or Asymmetric) light distribution. Testing shall be done in accordance with IESNA LM-79.</p>
UL Listing	<p>UL listed per UL1598 and CSA 22.2 No. 250.0 for the US and Canada</p>
Electronic Driver	<p>The LED driver shall be securely mounted inside the fixture, for optimized performance and longevity and shall be U.L. Recognized. It shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation. It shall have overload, overheat and short circuit protection, and have a DC voltage output, constant current design, 50/60HZ. It shall be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It shall be a high efficiency driver with a THD less than 20% and a high power factor greater than .9. It shall be dimming capable using a 0-10v signal, consult factory for more information.</p>
FDRB	<p>10-step field adjustable dimming board. Includes step dimming options from 25%-100%. The unit is conformal coated and UL recognized for use in damp locations.</p>
Warranty	<p>7-year limited warranty (See Website for Terms and Conditions.)</p>

Lumen Chart(s)

Model #	TA DELIVERED LUMENS	BUG	EFFICACY (LPW)	TS DELIVERED LUMENS	BUG	EFFICACY (LPW)	WATTAGE
4L40__-MDL05	7125	B2U3G3	91.3	7180	B3U3G3	92.1	78
4L30__-MDL05	6900	B2U3G3	88.5	6955	B3U3G3	89.2	78
4L27__-MDL05	6275	B2U3G3	80.4	6320	B3U3G3	81.0	78
4L40__-MDL03	5260	B2U3G3	97.4	5280	B3U3G2	97.8	54
4L30__-MDL03	5095	B2U3G3	94.4	5115	B3U3G2	94.7	54
4L27__-MDL03	4630	B2U3G3	85.7	4650	B3U3G2	86.1	54
4L40__-MDL02	3850	B1U3G2	101.3	3860	B2U3G2	101.6	38
4L30__-MDL02	3730	B1U3G2	98.2	3740	B2U3G2	98.4	38
4L27__-MDL02	3390	B1U3G2	89.2	3400	B2U3G2	89.5	38

How to order

Series	LED	CCT - Color Temperature (K)	Distribution Type	Driver	Optional Driver Housing ⁽¹⁾	Optional Internal Diffusing Lens ⁽²⁾	Option Fixed Dimming Resistor Board
VCOB-9930 Gettysburg, LED Conversion Kit	4L 4L	27 2,700K 30 3,000K 35 3,500K 40 4,000K 50 5,000K	TS Type Symmetric TA Type Asymmetric	MDL02 120V-277V, 250mA MDH02 347V-480V, 250mA MDL03 120V-277V, 350mA MDH03 347V-480V, 350mA MDL05 120V-277V, 500mA MDH05 347V-480V, 500mA	682 Driver Housing Cover (Required for units manufactured prior to 2004)	SV2 Cylindrical Soft Vue Medium Diffused Acrylic SV4 Cylindrical Soft Vue Maximum Diffused Acrylic	FDRB Fixed Dimming Resistor Board

Notes:

1. Required for units manufactured prior to 2004

2. Not for use with TA optic