

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



CCT - Color Temperature (K)



7 Year Warranty



Certifications



Description

The versatile VCOB-9920 conversion kit transforms existing Sternberg 9920 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-9920: Gettysburg, LED Conversion Kit
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
---------------	--	--

Features

Option Fixed Dimming Resistor Board	FDRB: Fixed Dimming Resistor Board
--	---

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	6955	B2U3G3	89.2	7195	B3U3G3	92.2	78
4L30__-MDL05	6735	B2U3G3	86.3	6970	B3U3G3	89.4	78
4L27__-MDL05	6125	B2U3G3	78.5	6335	B3U3G3	81.2	78
4L40__-MDL03	5125	B2U3G3	94.9	5270	B3U3G2	97.6	54
4L30__-MDL03	4965	B2U3G3	91.9	5105	B3U3G2	94.5	54
4L27__-MDL03	4515	B2U3G3	83.6	4640	B3U3G2	85.9	54
4L40__-MDL02	3765	B1U3G2	99.1	3850	B2U3G2	101.3	38
4L30__-MDL02	3645	B1U3G2	95.9	3730	B2U3G2	98.2	38
4L27__-MDL02	3315	B1U3G2	87.2	3390	B2U3G2	89.2	38

How to order

Series	LED	CCT - Color Temperature (K)	Distribution Type	Driver	Optional Internal Diffusing Lens ⁽¹⁾	Option Fixed Dimming Resistor Board
VCOB-9920 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	SV2 Cylindrical Soft Vue Medium Diffused Acrylic SV4 Cylindrical Soft Vue Maximum Diffused Acrylic	FDRB Fixed Dimming Resistor Board

Notes:

1. Not for use with TA optic