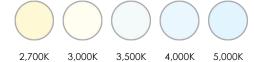
Project Name					
Туре	Catalog / Part Number				

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	30: 3,000K			
	35: 3,500K	40: 4,000K			
	50: 5,000K				
Distribution Type	TS: Type Symmetric	TA: Type Asymmetric			
Electrical and control					
Driver	MDL02 : 120V-277V, 250mA	MDH02 : 347V-480V, 250mA			
	MDL03: 120V-277V, 350mA	MDH03: 347V-480V, 350mA			
	MDL05: 120V-277V, 500mA	MDH05: 347V-480V, 500mA			
Features					
Option Fixed Dimming Resistor Board	FDRB: Fixed Dimming Resistor	Board			



Specifications

LEDs

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).

CCT Lumen Derate Values from 4,000K

2,700K (80+ CRI)=.89

3,000K (70+ CRI)=.97

3,500K (80+ CRI)=.93

5,000K (70+ CRI)=1.01

Optics

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.

UL Listing

UL listed per UL1598 and CSA 22.2 No. 250.0 for the US and Canada

Electronic Driver

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.

FDRB

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.

Warranty

7-year limited warranty (See Website for Terms and Conditions.)

Lumen Chart(s)

Model #	TA DELIVERED LUMENS	BUG	EFFICACY (LPW)	TS DELIVERED LUMENS	BUG	EFFICACY (LPW)	WATTAGE
4L40MDL05	6955	B2U3G3	89.2	7195	B3U3G3	92.2	78
4L30MDL05	6735	B2U3G3	86.3	6970	B3U3G3	89.4	78
4L27MDL05	6125	B2U3G3	78.5	6335	B3U3G3	81.2	78
4L40MDL03	5125	B2U3G3	94.9	5270	B3U3G2	97.6	54
4L30MDL03	4965	B2U3G3	91.9	5105	B3U3G2	94.5	54
4L27MDL03	4515	B2U3G3	83.6	4640	B3U3G2	85.9	54
4L40MDL02	3765	B1U3G2	99.1	3850	B2U3G2	101.3	38
4L30MDL02	3645	B1U3G2	95.9	3730	B2U3G2	98.2	38
4L27MDL02	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