

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



CCT - Color Temperature (K)



7 Year Warranty



Certifications



Description

The versatile VCOB-6590 conversion kit transforms existing Sternberg 6590 Victorian Gaslight HID 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-6590:** Victorian Gaslight, LED Conversion Kit

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	<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
4L40T_-MDL05	8070	B2U3G3	103.5	8225	B3U3G3	105.4	78
4L30T_-MDL05	7865	B2U3G3	100.8	8015	B3U3G3	102.8	78
4L27T_-MDL05	7145	B2U3G3	91.6	7280	B3U3G3	93.3	78
4L40T_-MDL03	5970	B2U3G3	112.6	5980	B3U3G2	112.8	53
4L30T_-MDL03	5820	B2U3G3	109.8	5830	B3U3G2	110.0	53
4L27T_-MDL03	5285	B2U3G3	99.7	5295	B3U3G2	99.9	53
4L40T_-MDL02	4485	B1U3G2	115.0	4480	B2U3G2	114.9	39
4L30T_-MDL02	4370	B1U3G2	112.1	4365	B2U3G2	111.9	39
4L27T_-MDL02	3970	B1U3G2	101.8	3965	B2U3G2	101.7	39

How to order

Series	LED	CCT - Color Temperature (K)	Distribution Type	Driver	Option Fixed Dimming Resistor Board
VCOB-6590 Victorian Gaslight, 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	FDRB Fixed Dimming Resistor Board