

Project Name

Qty

Type

Catalog / Part Number



CCT - Color Temp (K)		Description	
2,700K 3,000K 3,500K 4,000K 5,000K		The versatile VCOB-1843 conversion kit transforms existing Sternberg 1843 Carson City 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.	
7 Year Warranty		Physical	
7		Series VCOB-1843: Carson City, LED Conversion Kit	
Certifications		Light Source	
UL LISTED		LED 4L: 4 LEDs	
		CCT - Color Temp (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	
		Optional 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 United States and Canada. Suitable for Wet Locations.
Electronic Driver	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.
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.

Model #	TA DELIVERED LUMENS	BUG	EFFICACY (LPW)	TS DELIVERED LUMENS	BUG	EFFICACY (LPW)	WATTAGE
4L40T_-MDL05	7620	B2U3G3	97.7	7880	B3U3G3	101.0	78
4L30T_-MDL05	7425	B2U3G3	95.2	7680	B3U3G3	98.5	78
4L27T_-MDL05	6745	B2U3G3	86.5	6975	B3U3G3	89.4	78
4L40T_-MDL03	5610	B2U3G3	105.8	5730	B3U3G2	108.1	53
4L30T_-MDL03	5465	B2U3G3	103.1	5585	B3U3G2	105.4	53
4L27T_-MDL03	4965	B2U3G3	93.7	5075	B3U3G2	95.8	53
4L40T_-MDL02	4190	B1U3G2	107.4	4270	B2U3G2	109.5	39
4L30T_-MDL02	4085	B1U3G2	104.7	4160	B2U3G2	106.7	39
4L27T_-MDL02	3710	B1U3G2	95.1	3780	B2U3G2	96.9	39

Options



Fixed Dimming Resistor Board (**FDRB**)

How to Order

Series	LED	CCT - Color Temp (K)	Distribution Type	Driver	Optional Fixed Dimming Resistor Board
VCOB-1843 Carson City, LED Conversion Kit	4L 4 LEDs	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