

Project Name

Qty

Type

Catalog / Part Number



CCT - Color Temp (K)

2,700K

3,000K

3,500K

4,000K

5,000K

7 Year Warranty

7

Certifications

UL

LISTED

Description

The versatile VCOB-12xx conversion kit transforms existing Sternberg 1200 series 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-12xx: Prairie, 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: 4 LEDs	
CCT - Color Temp (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

Optional Fixed Dimming Resistor Board	FDRB: Fixed Dimming Resistor Board
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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
4L40__-MDL05	4945	B1U3G2	63.4	4690	B1U3G1	60.1	78
4L30__-MDL05	4790	B1U3G2	61.4	4545	B1U3G1	58.3	78
4L27__-MDL05	4355	B1U3G2	55.8	4130	B1U3G1	52.9	78
4L40__-MDL03	3655	B1U3G2	67.7	3465	B2U3G2	64.2	54
4L30__-MDL03	3540	B1U3G2	65.6	3355	B2U3G2	62.1	54
4L27__-MDL03	3220	B1U3G2	59.6	3050	B2U3G2	56.5	54
4L40__-MDL02	2740	B2U3G3	72.1	2595	B2U3G2	68.3	38
4L30__-MDL02	2655	B2U3G3	69.9	2515	B2U3G2	66.2	38
4L27__-MDL02	2415	B2U3G3	63.6	2285	B2U3G2	60.1	38

Options



Fixed Dimming Resistor Board (**FDRB**)



Internal Cylindrical Soft View Lens (**SVx**)

How to Order

Series	LED	CCT - Color Temp (K)	Distribution Type	Driver	Optional Driver Housing ⁽¹⁾	Optional Internal Diffusing Lens ⁽²⁾	Optional Fixed Dimming Resistor Board
VCOB-12xx Prairie, 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	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.