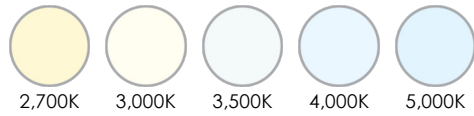


Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



CCT - Color Temperature (K)



7 Year Warranty



Certifications



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 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

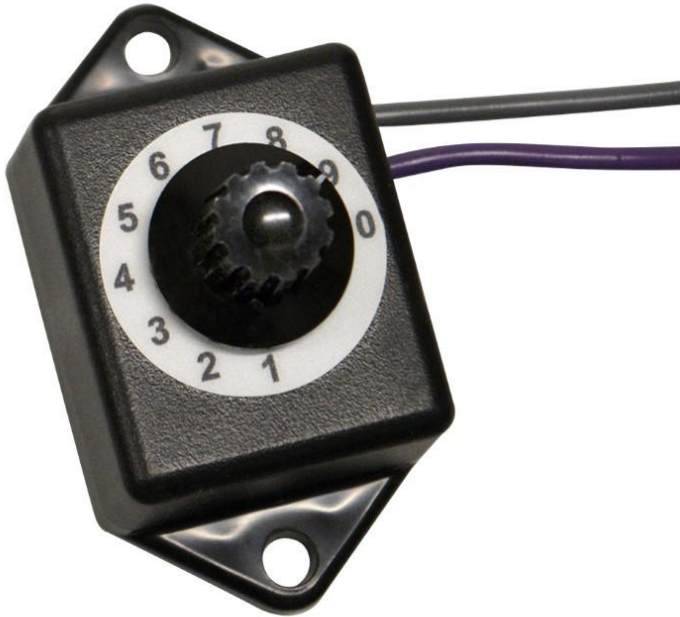
Optional Fixed Dimming Resistor Board	FDRB: Fixed Dimming Resistor Board
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Specifications

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 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 for Wet Locations 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>

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 Temperature (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	TS Type Symmetric TA Type Asymmetric	MDL02 120V-277V, 250mA	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
		30 3,000K		MDH02 347V-480V, 250mA			
		35 3,500K		MDL03 120V-277V, 350mA			
		40 4,000K		MDH03 347V-480V, 350mA			
		50 5,000K		MDL05 120V-277V, 500mA MDH05 347V-480V, 500mA			

Notes:

1. Required for units manufactured prior to 2004.

2. Not for use with TA optic.