

LTV81
INGRADE



FEATURES

- Sealed IP68 LED light engine
- Bluetooth connectivity for remote control aiming and dimming
- Free Mobile App for Android and iOS
- Easy to install and pair devices
- Advanced thermal management provides long life in excess of 100,000+ hours
- Runs cool to the touch - less than 40°C



Lightvault8 Flat Frame, Stainless Steel, Rock Guard, Half Shield, Eyeball

CONTROL TECHNOLOGY



RELATED PRODUCTS

LTV8FF RGBW

LTV8SS

LTV8SS RGBW

SPECIFICATIONS

HOUSING:

- Pour Box rough-in housing for installation below grade
- High temperature UV resistant thermal plastic, 3/16" minimum wall, black
- Includes a splice box with molded plastic splice cover and silicone gasket
- Three 1" NPT in bottom for through wiring on LTV81 and LTV82
- Two 1" NPT in bottom for through wiring on LTV83. 107 cu. in. splice area for LTV81
- 52 cu. in. splice area for LTV82. 24 cu. in. splice area for LTV83
- Rough-in housing supplied with a protective aluminum debris shield and includes an orientation label for proper installation alignment. This allows for clean and easy installation in concrete pad or soil. Pour Box can be shipped separately as a quick-ship if requested
- One-piece impregnated cast bronze component module is fully sealed and secured to the face trim from the underside
- A high temperature, anti-siphon, IP68 sealed cable extends from the component module to the splice box inside the housing
- The fully assembled component module is secured to the housing with (4) ¼-20 tamper-resistant and high grade stainless steel fasteners
- One-piece cast bronze lens ring fastens to the component module from the underside and provides a flat surface
- Slip Resistant Lens (SR) and Rebar Cage Anchor (RCA81)
- When installed in concrete, fixture will withstand drive-over by vehicles weighing up to 4,500 lb.

OPTICS

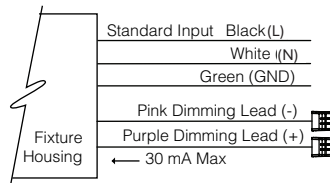
- Spot (SP), Narrow Flood (NF), and Wall Wash (WW) optical modules are adjustable up to 15° utilizing a Bluetooth enabled motor assembly
- Clear 5/16" thick tempered glass lens and silicone gasket is retained securely within the component module

ELECTRICAL

- All electronic components are UL and CSA recognized and are mounted directly to the component module for maximum heat dissipation and modularity. Driver is IP67 with -30°C minimum temperature rating
- Product comes standard with a UL Recognized 10kA surge protector

CONTROLS

- Standard fixtures dimming range is from 10% to 100% and be compatible with 0-10V, user-defined, control devices



BLUETOOTH:

- Integral Bluetooth module used to adjust optics and dim fixture to desired setting when paired with KIM LTV8 Remote App via cellular/tablet device
- Fully qualified Bluetooth 1.1, 1.2, 2.0, 2.1. Bluetooth v2.0+EDR compatible with Android devices running Android Gingerbread API level 9 forward. Bluetooth 4.0 LE compatible with iOS devices - iPhone 4S and later, 5th generation iPod touch, the iPad Mini and the 3rd generation and later of the full size iPad with iOS 5 or later

BLUETOOTH (CONTINUED)

- Bluetooth Apps are available for Apple iOS and Google Android mobile devices and are downloadable via the internet at Apple App Store or Google Play

CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

CERTIFICATIONS AND LISTINGS

- Listed to UL1598 and UL8750 25°C ambient operation
- SASO Certified for LTV82/83
- IP68 rated
- IEC 66262 Mechanical Impact Code IK09
- CISPR 15 Compliant, per product standard EN 55015:2013
- RoHS compliant

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	988–3878
Wattage Range	14–44
Reported Life (Hours)	L70/60,000

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ORDERING GUIDE

Example: LTV81-FF-NF-18L-4K-UV-SR-RCA81

CATALOG #

HOUSING

LTV81															
Model	Style	Distribution		Source		Color Temperature		Voltages		Len Options ²	Rebar Cage Anchor				
LTV81	13" Dia.	FF	Flat Frame	SP	Spot	36L	36 LEDs	3K	3000K	UV	120-277V	SR	Slip-Resistant	RCA81	for LTV81
		SS	Stainless Steel	NF	Narrow Flood	18L	18 LEDs (EB only)	4K	4000K			PL	Prismatic Lens		
		HS	Half Shield	WW	Wall Wash			5K	5000K						
		RG	Rock Guard												
		EB	Eyeball ¹												

1 Eyeball fixture comes only with 18 LED.
 2 All lens options are integral parts of component module and must be installed at factory.

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DELIVERED LUMENS

LTV81FF

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V	Field Angle (10%) H x V	NEMA Type			
SP	36L	3K	3529	42861	UV	42W	.350 for 120V .202 for 208V .175 for 240V .152 for 277V	12.9 x 12.9	26.4 x 26.4	2H x 2V			
		4K	3617	45492									
		5K	3658	46015									
NF		3K	2911	3248				44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V		46 x 54.6	79.9 x 83.8	5H x 5V
		4K	2985	3310									
		5K	3020	3379									
WW		3K	3739	6083		44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	53.1 x 28.2	102.5 x 61.1	6H x 4V			
		4K	3835	6239									
		5K	3878	6309									

LTV81SS

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V		
SP	36L	3K	3529	42861	UV	42W	.350 for 120V .202 for 208V .175 for 240V .152 for 277V	12.9°		
		4K	3617	45492						
		5K	3658	46015						
NF		3K	2911	3248				44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	46°
		4K	2985	3310						
		5K	3020	3379						
WW		3K	3739	6083		44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	53.1°		
		4K	3835	6239						
		5K	3878	6309						

LTV81RG

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V		
SP	36L	3K	2399	26821	UV	42W	.350 for 120V .202 for 208V .175 for 240V .152 for 277V	13.3°		
		4K	2462	27423						
		5K	2488	28026						
NF		3K	2036	2368				44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	44.3°
		4K	2088	2436						
		5K	2111	2453						
WW		3K	2522	4097		44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	49.3°		
		4K	2585	4201						
		5K	2616	4250						

LTV81HS

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V		
SP	36L	3K	3418	42371	UV	42W	.350 for 120V .202 for 208V .175 for 240V .152 for 277V	12.9°		
		4K	3507	43660						
		5K	3543	45983						
NF		3K	2627	3228				44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	49.3°
		4K	2695	3317						
		5K	2724	3412						
WW		3K	3489	6032		44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	52.3°		
		4K	3578	6187						
		5K	3619	6257						

KEY: FF = Flat Frame, SS = Flat Frame, RG = Rock Guard, HS = Half Shield, EB = Eyeball, SP = Spot, NF = Narrow Flood, WW = Wall Wash (PicoPrism™), 36L = 36 LEDs, 18L = 18 LEDs, 16L = 16 LEDs, 12L = 12 LEDs, 3K = 2800K to 3175K, 4K = 3800K to 4600K, 5K = 4600K to 5600K, UV = Universal Voltage shall range from 120V-277V with a ±10% tolerance.
* The SP and NF are based on Candela exiting unit straight up. The WW is for highest candela angle.

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DELIVERED LUMENS

LTV81EB

Optical Module	Source	Color Temp.	Absolute Lumens	Center Beam Candle Power*	Voltage	Total System Watts	Max. Amps	Beam Angle (50%) H x V
SP	18L	3K	1956	42861	UV	42W	.350 for 120V .202 for 208V .175 for 240V .152 for 277V	12.9 x 12.9
		4K	2007	45492				
		5K	2030	46015				
NF		3K	1612	3248				46 x 54.6
		4K	1653	3310				
		5K	1672	3379				
WW		3K	1826	6083		44W	.367 for 120V .212 for 208V .183 for 240V .159 for 277V	53.1 x 28.2
		4K	1872	6239				
		5K	1895	6309				

KEY: FF = Flat Frame, SS = Flat Frame, RG = Rock Guard, HS = Half Shield, EB = Eyeball, SP = Spot, NF = Narrow Flood, WW = Wall Wash (PicoPrism™), 36L = 36 LEDs, 18L = 18 LEDs, 16L = 16 LEDs, 12L = 12 LEDs, 3K = 2800K to 3175K, 4K = 3800K to 4600K, 5K = 4600K to 5600K, UV = Universal Voltage shall range from 120V-277V with a ±10% tolerance.
 * The SP and NF are based on Candela exiting unit straight up. The WW is for highest candela angle.

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DIMENSIONS



LIGHT DISTRIBUTIONS:



ELECTRICAL DATA

Spectroradiometric

	3K	4K	5K
Correlated Color Temp. CCT (K)	2800K to 3175K	3800K to 4600K	4600K to 5600K
Color Rendering Index (CRI)	≥72	≥72	≥72
Power Factor	>.90	>.90	>.90

L70 Data

	Calculated	Reported*
350 mA	100,000	60,000