Alphalite Inc.

INFINITY VOLUMETRIC LED TROFFER RETROFIT KIT

IRT Series
Retrofit Kits

DESCRIPTION

The Infinity Volumetric LED Troffer Retrofit Kit series combines the benefits of long life, controllability, and energy savings with elegant design and superior quality of light. The IRT retrofit solution optimize LED optics and electronics to deliver energy savings and high performance while being extremely quick and easy to install.

APPLICATION

Indoor general/ambient illumination. Idea for offices, retail, and other architectural spaces that demand energy demand reduction and high quality light.

7 YEAR WARRANTY   **c(UL)us LISTED**   **DLC LISTED**

SPECIFICATION FEATURES

Construction
Rugged construction: solid die-formed, cold-rolled steel. Interior utilizes highly reflective powder coat finish. All surfaces coated and baked post-fabrication with high gloss powder-paint. Diffuser lens provides even and consistent light while eliminating pixelation. LED module and driver are replaceable. Easy and convenient installation utilizes existing luminaire body, reduces labor hours. Housing and optics maintain damp location rating with all internal components.

Electrical
Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 120-277V input voltage for increased versatility. 1-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code

Finish
Highly reflective powder coat finish. Baked white matte paint, applied after fabrication.

Optics
Occupants can realize a productive and comfortable atmosphere through enhanced light quality and distribution. Diffuser shape, pattern, and opacity designed in conjunction with precisely-engineered reflector cavity angles to distribute LED light consistently, reducing glare and pixelation.

Mounting
Installs within existing troffer and louvers. Utilizes existing luminaire body, eliminating the need to remove and dispose of old hardware. LED module arrays and drivers accessible from fixture during service and operation, no need to access via plenum.

Certifications / Regulatory
UL/cUL listed. All components used have UL approval. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty
7-year limited warranty. See complete warranty terms for details.

Quick Ship Product

IRT-22L(23S)/840.
IRT-22H(33S)/840.
IRT-24L(30S2)/850.
IRT-24L(36S)/840
IRT-24L(36S)/850

ORDERING INFORMATION

Sample Number: IRT-14L(23S)/840

Series	Length	Lumen Package			CRI	CCT
IRT - Infinity Volumetric LED Troffer Retrofit Kit	**14** - 1'x4' **22** - 2'x2' **24** - 2'x4'	**1'x4'** **14L(12S2)** - 12W, 1500lm **14L(23S)** - 23W, 2875lm	**2'x2'** **22L(23S)** - 23W, 2875lm **22H(33S)** - 33W, 4125lm	**2'x4'** **24VL(23S)** - 23W, 2875lm **24L(30S2)** - 30W, 3750lm **24L(36S)** - 36W, 4500lm **24L(45/35/26S2)** - 45/35/26W, 6300/4900/3640lm	**8** - 80+ CRI	**35** - 3500K **40** - 4000K **50** - 5000K

Auxiliary Power	Input Voltage	Control Option	Emergency Backup	Assembly in USA
(Blank) - without Aux **12V** - with Aux 12V	**(Blank)** - 120-277V **C** - 120-347V **480** - 480V	**OS** - Step dimming PIR motion sensor and daylight sensor (Required RC-RM51 Sensor Configuration Tool) **AWNR** - Lutron Athena wireless node integral fixture control (RF only) **AWNS** - Lutron Athena wireless node integral fixture control (RF with daylight and occupancy sensing) *Recommended to be used at heights of 8-12 feet for optimal coverage.	**EM15W** - 15W constant power with integrated self-diagnostic test	**(Blank)** - Non-BAA **BAA** - Assembly in USA

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SUMMARY

Input Voltage	120-277V
Input Power	See energy data for details
Power Factor	> 0.9
THD (Max.)	10%
Efficacy	>125 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	1-10V dimming standard
Dimming Range	10-100%
CRI	> 80
CCT	3500,4000,5000K
Operating Temp.	-4°F ~ 133°F (-20°C ~ +55°C)
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA

Form Factor	Part No.	Rated Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2'x2'	IRT-22L(23S)/835 IRT-22L(23S)/840 IRT-22L(23S)/850	23	2875	125
	IRT-22H(33S)/835 IRT-22H(33S)/840 IRT-22H(33S)/850	33	4125	125
2'x4'	IRT-24VL(23S)/835 IRT-24VL(23S)/840 IRT-24VL(23S)/850	23	2875	125
	IRT-24L(30S2)/835 IRT-24L(30S2)/840 IRT-24L(30S2)/850	30	3750	125
	IRT-24L(36S)/835 IRT-24L(36S)/840 IRT-24L(36S)/850	36	4500	125
1'x4'	IRT-14VL(12S2)/835-C	12	1500	125
	IRT-14L(23S)/835 IRT-14L(23S)/840 IRT-14L(23S)/850	23	2875	125

*The delivered lumens above are based on highest wattage and 4000K.
**Default setting at time of shipping are highest wattage and highest CCT.
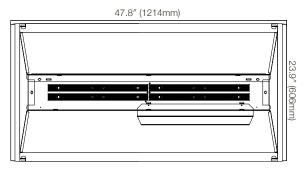

PHYSICAL PARAMETERS

DIMENSION

IRT-22
7.72 Lbs.

23.9" (606mm) 2.6" (67mm)
23.9" (606mm) 23.9" (606mm)

IRT-24
13.14 Lbs.

47.8" (1214mm) 2.6" (67mm)
23.9" (606mm) 23.9" (606mm)

IRT-14
9.04 Lbs.

47.8" (1214mm) 2.6" (67mm)
11.89" (302mm) 11.89" (302mm)

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