Alphalite Inc.

PROJECT			
TYPE		DATE	
ITEM NO.			
NOTE			

INFINITY VOLUMETRIC LED TROFFER RETROFIT KIT

IRT-S3 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

Quick Ship Product

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. 120-347V 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.
Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B.

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

ORDERING INFORMATION

Sample Number: IRT-14L(30/25/20S3)/8A-SR

Series	Length	Lumen Package			CRI
IRT - Infinity Volumetric LED Troffer Retrofit Kit	**14** - 1'x4' **22** - 2'x2' **24** - 2'x4'	**1'x4'** **14L(30/25/20S3)** - 30/25/20W, 3750/3150/2500lm	**2'x2'** **22L(30/25/20S3)** - 30/25/20W, 3750/3150/2500lm	**2'x4'** **24L(34/30/25S3)** - 34/30/25W, 4250/3750/3125lm	**8** - 80+ CRI

CCT	Input Voltage	Sensor Ready	Control Option
A - Adjustable CCT (5000/4000/3500K)	**(Blank)** - 120-277V **C** - 120-347V	**(Blank)** - without AUX **SR** - Sensor Ready Connector for control options	**OS** - Step dimming PIR motion sensor and daylight sensor (Required RC-RM51 Sensor Configuration Tool)

Emergency Backup
EM15W - 15W constant power with integrated self-diagnostic test

SUMMARY

Input Voltage	120-347V
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	0-10V dimming standard
Dimming Range	10-100%
CRI	> 80
CCT	5000/4000/3500K selectable
Operating Temp.	-4°F ~ 122°F (-20°C ~ +50°C)
Rated Life	70,000 hours

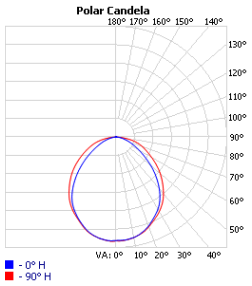
ENERGY PERFORMANCE DATA

Form Factor	Part No.	Rated Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
1'x4'	IRT-14L(30/25/20S3)/8A-SR	30/25/20	3750/3125/2500	125
2'x2'	IRT-22L(30/25/20S3)/8A-SR	30/25/20	3750/3125/2500	125
2'x4'	IRT-24L(34/30/25S3)/8A-SR	34/30/25	4250/3750/3125	125

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

OPTICS

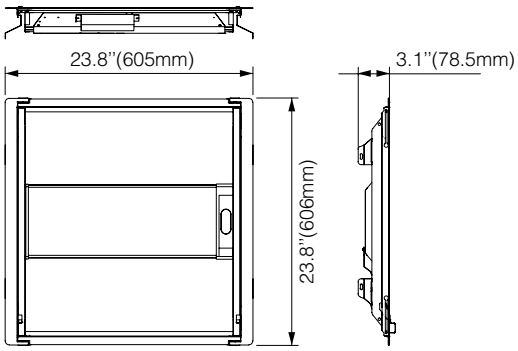
Beam angle 110°



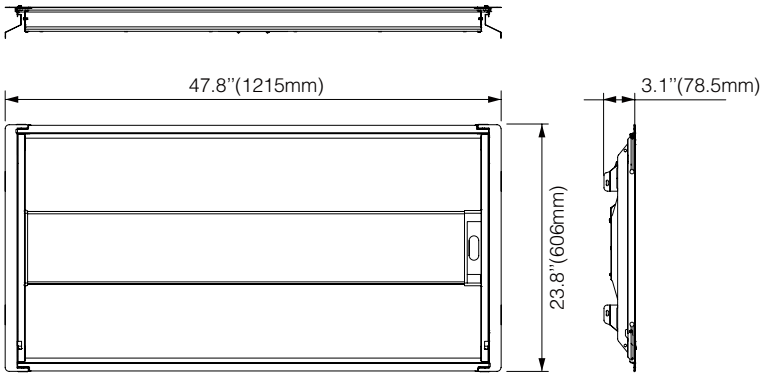
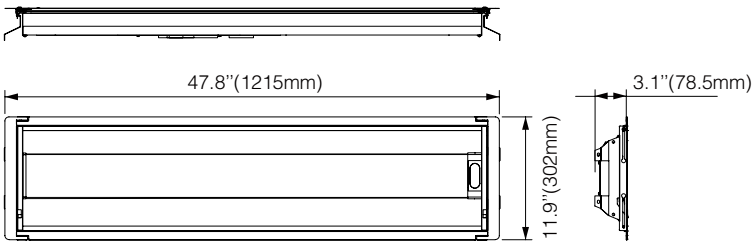
PHYSICAL PARAMETERS

DIMENSION

IRT-22L



IRT-24L



IRT-14L