



PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

INFINITY VOLUMETRIC LED TROFFER, CENTER DIFFUSER

ILT-CB Series

Panels and Troffers

DESCRIPTION

The Infinity Volumetric LED Troffer series combines the benefits of long life, controllability, and energy savings with elegant design and superior quality of light. The ILT luminaires optimize LED optics and electronics to deliver energy savings and high performance.

APPLICATION

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

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. Tool-less removal of diffuser allows access to LED array. LED module and driver are replaceable. 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. 120V-277V input voltage for increased versatility. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code

Mounting

Installs recessed with T-bar grid. LED module arrays and drivers accessible from fixture during service and operation, no need to access via plenum.

Finish

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

Optics

Volumetric effect achieved by delivering a comfortable mix of light to working and surrounding surfaces, creating balanced illumination throughout the environment. 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.

Certifications / Regulatory

UL/cUL listed. Damp location rated. All components used have UL approval. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Premium listed.

Warranty

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



Quick Ship Product

- ILT-CB-22L(25S2)/835
- ILT-CB-22L(25S2)/840
- ILT-CB-22L(25S2)/850
- ILT-CB-22H(35S2)/835
- ILT-CB-22H(35S2)/840
- ILT-CB-22H(35S2)/850
- ILT-CB-24L(34S2)/835
- ILT-CB-24L(34S2)/840
- ILT-CB-24L(34S2)/850
- ILT-CB-24L(45S2)/835
- ILT-CB-24L(45S2)/840
- ILT-CB-24L(45S2)/850

ORDERING INFORMATION

Sample Number: ILT-CB-24L(34S2)/840

ILT-CB	24	L	8	40	(Blank)	(Blank)
Series	Form Factor	Lumen Package	CRI	CCT	Input Voltage	Dimming
ILT-CB - Infinity Volumetric LED Troffer, Center Diffuser	22 - 2'x2' 24 - 2'x4' 14 - 1'x4'	VL - Very Low Wattage L - Low Wattage H - High Lumen VH - Very High Lumen *See energy data for details	8 - 82+ CRI	35 - 3500K 40 - 4000K 50 - 5000K	(Blank) - 120V-277V 347V - 120V-347V	(Blank) - 0-10V Continuous Dimming

Options

Accessories

- FLK - Flange Kit
- SMK - Surface Mount Kit

Driver Options

- CT - Cold temperature driver, -40°F-131°F (-40°C-55°C)

Controls

- MMS - Integrated step dimming microwave motion sensor with sync function
- DMMSDL - Step dimming microwave motion sensor and daylight harvesting
- DL - Integrated daylight harvesting
- SMC - Smart Control System

Emergency Backup

- (Lumen will maintain over the 90-minute duration)
- EM700 - 700lm
- EM1400 - 1400lm
- EM2000 - 2000lm

Assembly in USA

BAA - assembly in USA



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SUMMARY

Input Voltage	120V-277V
Input Power	See energy data for details
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 125 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	0-10V Continuous (10-100%)
CRI	> 83
CCT	3500K, 4000K, 5000K
Operating Temp.	-20 ~ +55 C
Rated Life	70,000 hours

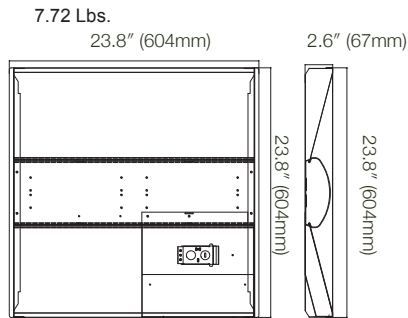
ENERGY PERFORMANCE DATA

Form Factor	Part No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2'x2'	ILT-CB-22VL(18S2)/835	18	17	2384	124
	ILT-CB-22VL(18S2)/840			2250	125
	ILT-CB-22VL(18S2)/850			2268	126
	ILT-CB-22L(25S2)/835	25	25	2954	122
	ILT-CB-22L(25S2)/840			3125	125
	ILT-CB-22L(25S2)/850			3150	126
	ILT-CB-22H(35S2)/835	35	35	4122	125
	ILT-CB-22H(35S2)/840			4410	126
	ILT-CB-22H(35S2)/850			4445	127
	ILT-CB-22H(35/25/18S2)	35/25/18	35/25/18	4410/3125/2250	125
2'x4'	ILT-CB-24VL(25S2)/835	25	25.35	3150	126
	ILT-CB-24VL(25S2)/840			3175	127
	ILT-CB-24VL(25S2)/850			3200	128
	ILT-CB-24L(34S2)/835	34	33	4232	125
	ILT-CB-24L(34S2)/840			4284	126
	ILT-CB-24L(34S2)/850			4318	127
	ILT-CB-24H(34/25/18S2)	34/25/18	34/25/18	4284/3175/2250	125
	ILT-CB-24L(45S2)/835	45	46	5556	124
	ILT-CB-24L(45S2)/840			5625	125
	ILT-CB-24L(45S2)/850			5670	126
	ILT-CB-24VH(64/56/46S2)/835	64/56/46	64/56/46	8192/7168/5888	128
	ILT-CB-24VH(64/56/46S2)/840			8256/7224/5934	129
	ILT-CB-24VH(64/56/46S2)/850			8320/7280/5980	130
	ILT-CB-24VH(85/70/60S2)	85/70/60	85/70/60	12750/10640/9300	150
ILT-CB-24-VH(100S2)	100	100	15000	150	
1'x4'	ILT-CB-14H(35/25/18S2)/835	35/25/18	35/25/18	4375/ 3125/ 2250	125
	ILT-CB-14H(35/25/18S2)/840				
	ILT-CB-14H(35/25/18S2)/850				

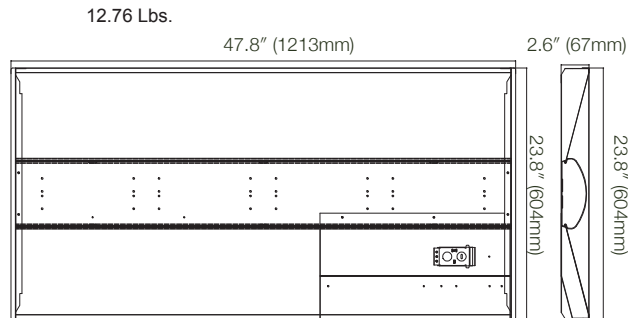
PHYSICAL PARAMETERS

DIMENSION

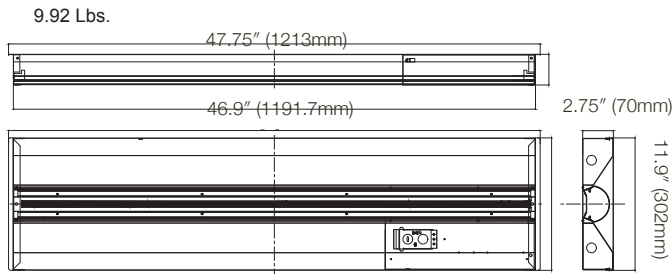
ILT-CB-22



ILT-CB-24



ILT-CB-14



-DMMS/MMS control pre-commissioning

Sample Number: -DMMS (10-3M-L3-S10M)

10	3M	L3	S10M	(Blank)
Detection Area	Hold Time	Low Mode	Stand-by Period	Daylight Sensor
10 - 100%	NM - ∞	L5 - 50%	SN - ∞	(Blank) - Disable
7 - 75%	20M - 20 min.	L3 - 30%	S1H - 1 hr.	D100 - 100 lux
5 - 50%	3M - 3 min.	L2 - 20%	S30M - 30 min.	D50 - 50 lux
1 - 10%	30S - 30 sec.	L1 - 10%	S10M - 10 min.	D25 - 25 lux
	5S - 5 sec.		S5M - 5 min.	D10 - 10 lux
			S5S - 5 sec.	D5 - 5 lux
			(Blank) - Disable	D2 - 2 lux
<p>Detection Area: Detection area can be reduced to fit precisely each application.</p> <p>Hold Time: The time period the luminaire remains at 100% illumination after no motion detected.</p> <p>Low Mode: The selected low light level after the hold time.</p> <p>Stand-by Period: The time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected.</p> <p>Daylight Sensor: The sensor can be set to only allow the luminaire to illuminate below a defined ambient brightness threshold. When set to "Disable" mode, the daylight sensor will switch on the luminaire when motion is detected regardless of ambient light level.</p> <p>**Noted that daylight sensor is active only when the luminaire switches off**</p>				