

# Center Basket Troffer

## CBTS-LED



**The CBTS-LED Series** is a volumetric LED troffer engineered for performance and flexibility. Featuring a standard sensor receptacle along with lumen and CCT selection switches, it adapts easily to a wide range of applications. Designed to provide smooth, even illumination while minimizing glare, the CBTS-LED delivers comfortable, high-quality lighting. It is an ideal solution for schools, hospitality spaces, and commercial environments.

IDEAL APPLICATIONS

- ✓ Offices

✓ Schools

✓ Retail Spaces

✓ Convenience Stores

✓ Commercial Spaces

SPECIFICATIONS

	CBTS22	CBTS24
PERFORMANCE		
Light Output	5800/4400/2900 lm	7200/5700/4300 lm
Efficacy	145 lm/W	
CCT	3500/4000/5000K (CCT Selectable)	
Beam Distribution	120°	
LED Lifetime (L85)	>100,000 Hrs	
CRI	>83	
ELECTRICAL		
Wattage	40/30/20W	50/40/30W
Voltage	120-347 V	
Surge Protection	2kV (Built-in Driver) as per IEC/EN61000-4-5	
Power Factor	≥0.9	
THD	≤15%	
Dimming	0-10V (0-100% Dimming, Dim to Off)	
CONSTRUCTION		
Housing	Steel Back housing	
Finish	White	
Lens	Frosted Polycarbonate	
Weight	6 lbs	11 lbs
AMBIENT OPERATING TEMPERATURE		
Fixture	-20°C to 40°C (-4°F to 104°F)	

MOUNTING		
Recessed in T-bar grid ceiling with integral earthquake clips Surface mount/suspension mount (kit sold separately)		
CERTIFICATIONS		
cULus Listed for Canada and USA, per UL 1598, CSA C22.2 No. 250.0 DLC Premium		
CONTROLS		
Sensor	Bluetooth PIR Motion Sensor PIR Motion Sensor (RC-500 remote needed to operate sensor)	
Switches	Bluetooth 3-KEY AC Line voltage wall switch Bluetooth 5-KEY Battery powered wireless wall switch & plate	
LUMEN MAINTENANCE		
L90	L80	L70
>60000 hrs	>100000	>125000
MAX AMPERAGE DRAW (A)		
	CBTS22-LED40A20	CBTS24-LED50A30
120V	0.37	0.46
208V	0.21	0.26
240V	0.18	0.23
277V	0.16	0.20
347V	0.13	0.16

**Note:**

- Electrical and Light Performance data is based on LM79 test report at 4000K and 120V.
- Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.

# ORDERING GUIDE

		H	VK	DIM	SR
Fixture	Wattage	Voltage	Colour Temp.	Dimming	Controls
CBTS22	LED40A20	H - 120-347V	VK - CCT Selectable (3500K/4000K/ 5000K)	DIM - 0-10V Dimming	SR - Sensor Receptacle
CBTS24	LED50A30				

Default Setting: Maximum Wattage and 4000K

## STOCK CODE

033422	CBTS22-LED40A20-H-VK-DIM-SR
033424	CBTS24-LED50A30-H-VK-DIM-SR

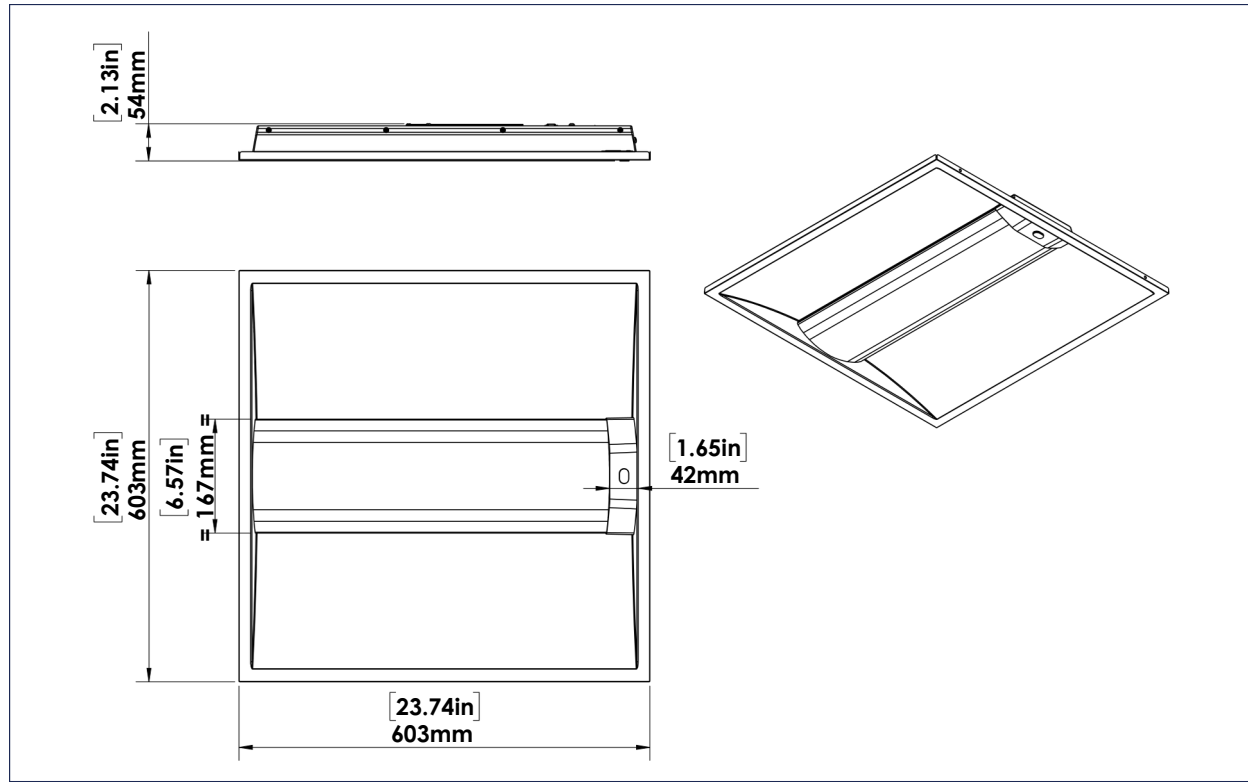
## ACCESSORIES SOLD SEPARATELY

083786	LOWBAY RC PIR MOTION/DLH PLUG-IN SENSOR		070002	2 CABLE SUSPENSION MOUNT KIT F/PANELS/TROFFERS	
083787	LOWBAY BLUETOOTH PIR MOTION/DLH PLUG-IN SENSOR		072203	SURFACE MOUNT KIT F/2x2 PANELS/TROFFERS	
083789	CONTROLLED RC-500 MOTION SENSOR REMOTE CONTROL		072403	SURFACE MOUNT KIT F/2x4 PANELS/TROFFERS	
084215	BLUETOOTH 3-KEY AC LINE VOLTAGE WALL SWITCH 120-277VAC, 3-KEYS(ON/OFF, DIM+, DIM-)		072205	DRY WALL KIT F/2X2 PANELS/TROFFERS	
084633	BLUETOOTH 5-KEY BATTERY POWERED WIRELESS WALL SWITCH & PLATE <sup>1</sup>		072206	DRY WALL KIT F/2X4 PANELS/TROFFERS	

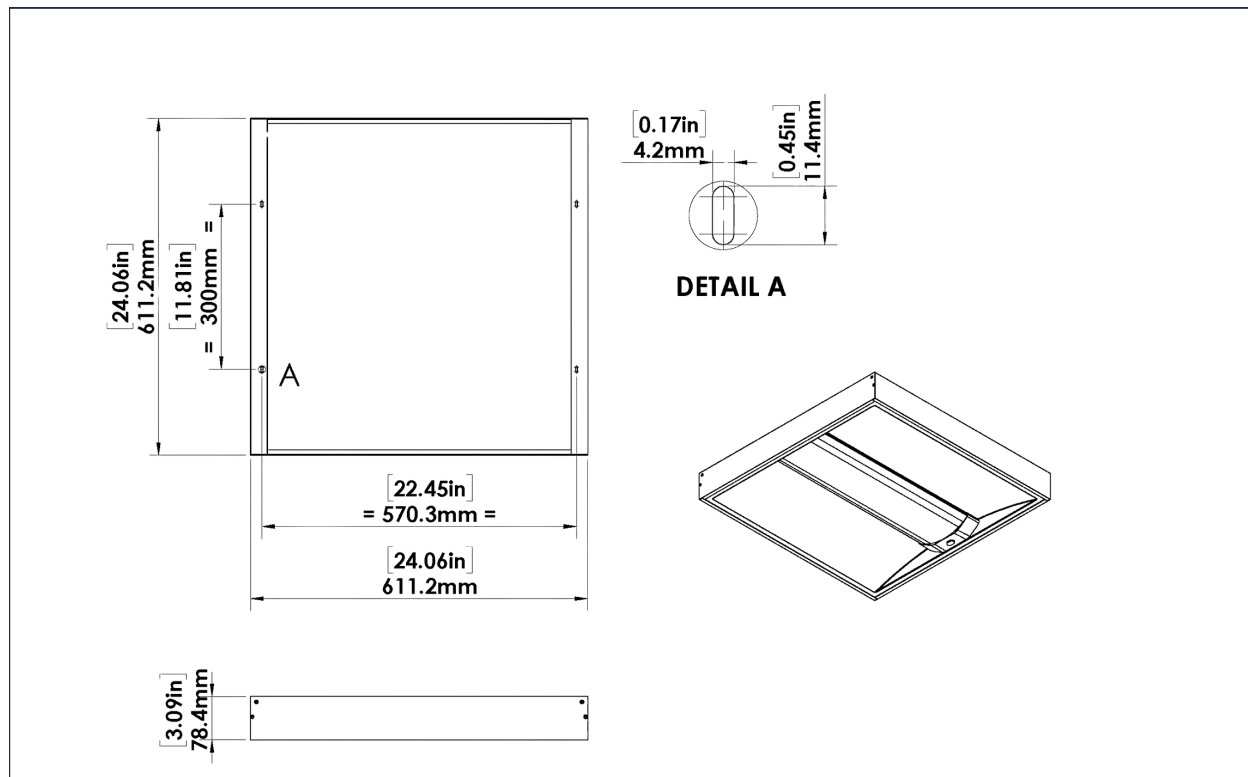
<sup>1</sup> Wireless Bluetooth module can also be used as portable remote control.

## DIMENSIONS

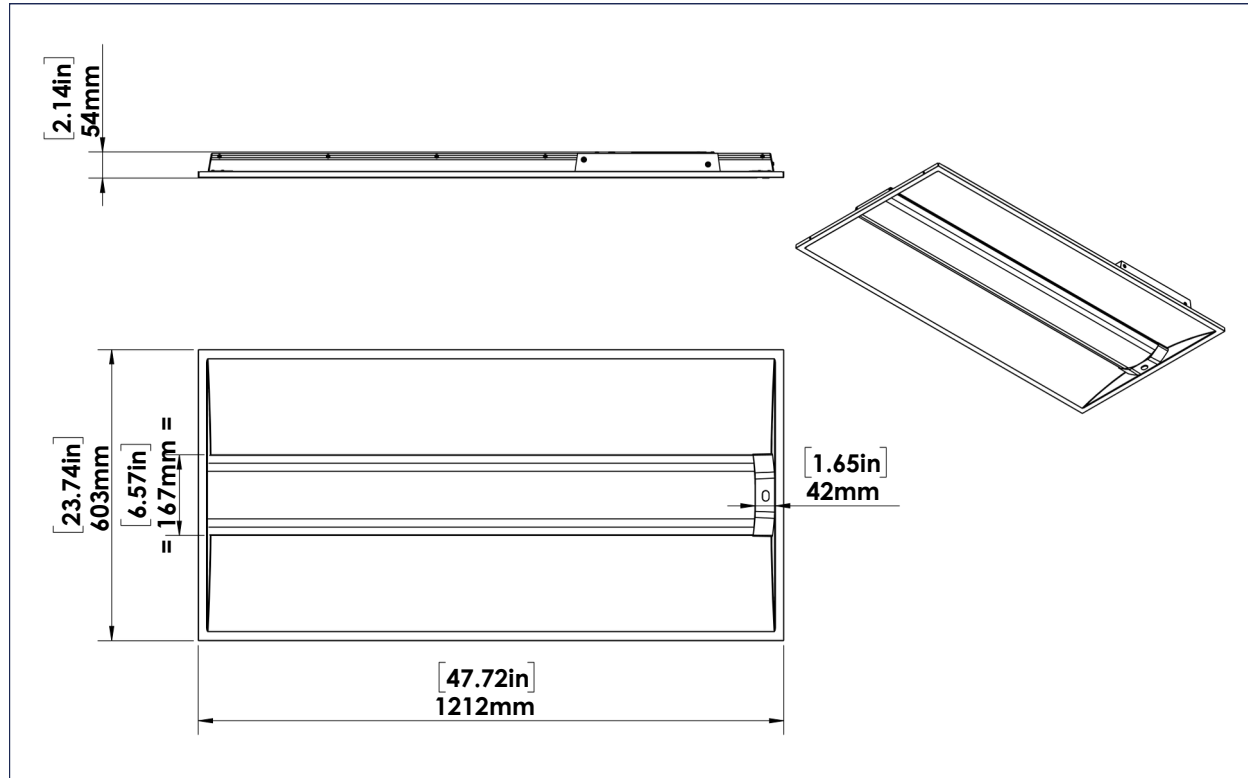
### CBTS22



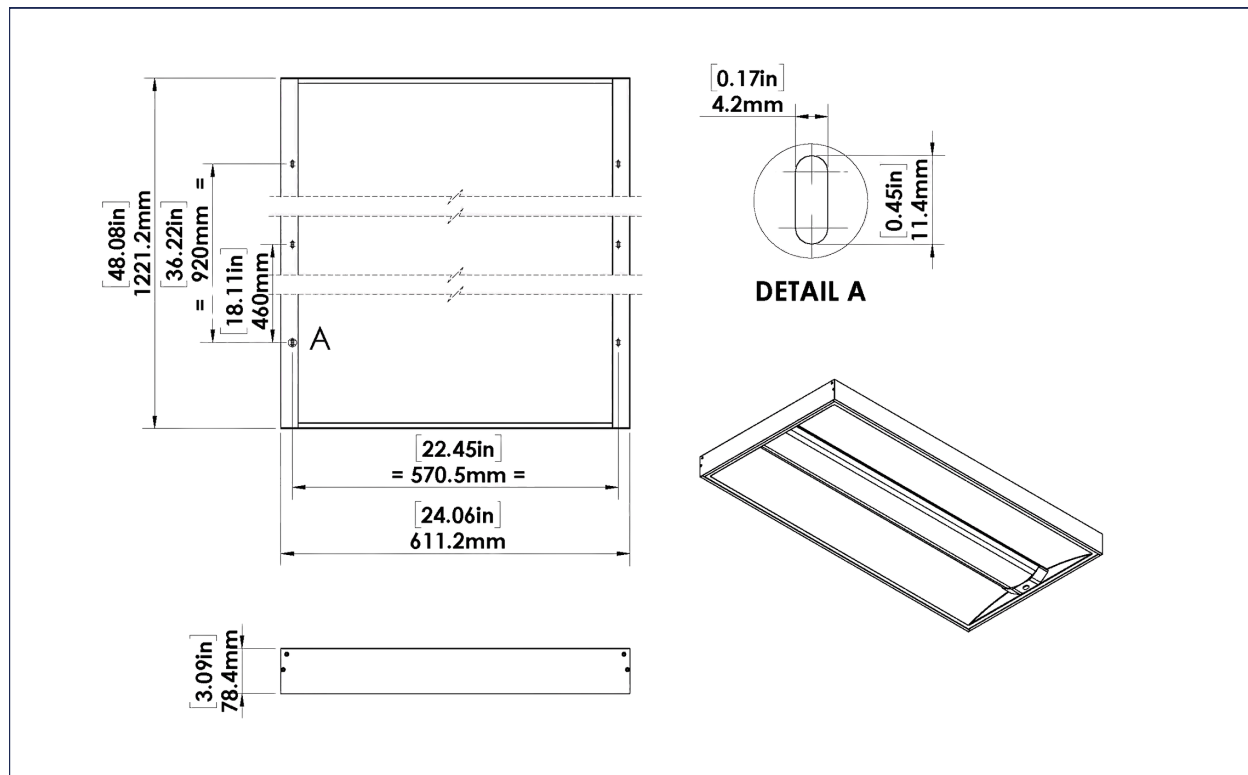
### CBTS22 SURFACE MOUNT KIT



## CBTS24



## CBTS24 SURFACE MOUNT KIT





# CONTROLLED

## PIR MOTION & DAYLIGHT HARVEST SENSOR

### FEATURES

- Available in two options - Remote controlled standalone sensor & bluetooth sensor
- Easy wireless plug-and-play installation

#### Remote Controlled Sensor

- Program the sensor easily and quickly using RC-500 remote control.

#### Bluetooth Sensor

- Program the sensor using the ControlLED app.
- Bluetooth mesh network
- DLC - Networked Lighting Control (NLC) & Luminaire Level Lighting Control (LLLC)



SPECIFICATION	
Input Voltage	12VDC
Input Current	25mA Max.
Input Power	0.3W
Output Current	10mA Max. Sinking Current
Output Power	0.1W
Dimming	Class 2, 0-10VDC
Bluetooth Transmit <sup>2</sup>	100ft Max.
Radio Frequency	2.4GHz ±75MHz
Bluetooth Version <sup>2</sup>	5.0
Housing Material	Polycarbonate (UL 94-5VA)
Housing Finish	White
Detection Range	40ft Max.
Mounting Height	18ft. Max.
Indoor/Outdoor Use	Indoor Use Only
Operating Temperature <sup>1</sup>	-30°C to 55°C (-22°F to 131°F)
Storage Temperature	-30°C to 85°C (-22°F to 185°F)
IP Rating	IP20
Installation	Plug-and-play installation

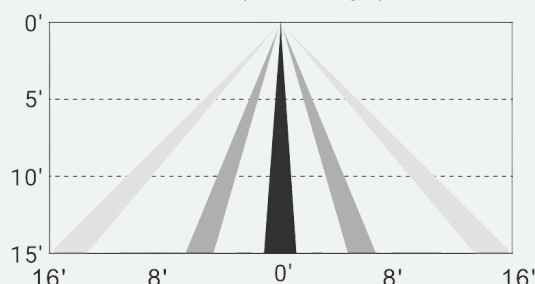
<sup>1</sup>When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.

<sup>2</sup>Applies only to the Bluetooth sensor

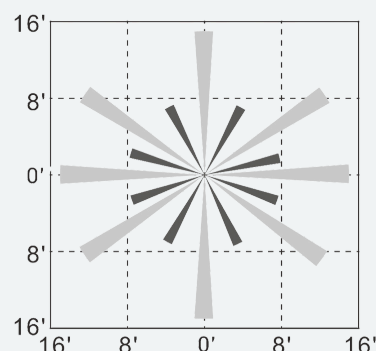
DEFAULT SETTINGS	
Motion Sensor	On
Mode	Occupancy
Trim Level	100%
Sensitivity	High
Hold Time (T1)	20 min
Standby Dim	50%
Standby Time (T2)	1 min
Photocell	Off
Daylight Harvest	Off
Linkage	Off
Linkage Level	100%

### DETECTION COVERAGE

#### Side View (at 15ft Height)



#### Top View (at 15ft Height)



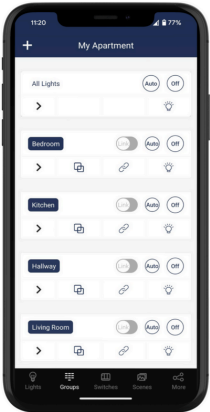
**Note:** Program the Bluetooth sensor with the desired settings using the ControlLED Mobile App (please refer to the ControlLED App manual for instructions).  
Program the RC sensor with RC-500 Remote Control (please refer to the manual for instructions).



# CONTROLLED

**RAB**<sup>®</sup>  
DESIGN

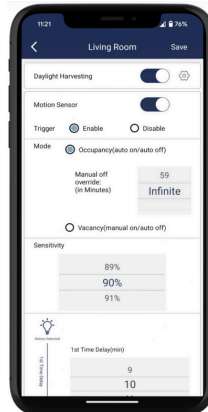
ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.



**Organized Workspaces:**  
Create Zones, Groups and Group linkages.



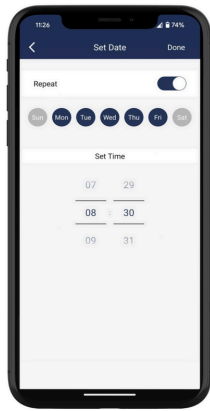
**Dimming Lights:**  
Set dim level for groups or individual lights.



**Motion and Daylight Harvest Sensors:**  
Custom sensor settings for groups or individual lights.



**Scenes:**  
Create custom scenes for different scenarios.



**Schedules:**  
Create custom schedules for recurring events.



**Share Access:**  
Share access using QR codes.

## Get the App!



**RAB**<sup>®</sup>  
DESIGN

**Engineered by skilled hands,  
for skilled hands.**

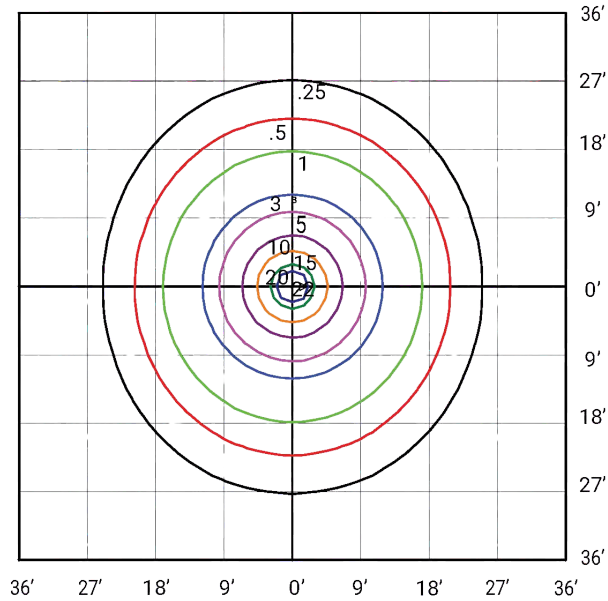
© RAB Design Lighting Inc. 2026. All rights reserved.  
For more information, visit [rabdesign.ca](http://rabdesign.ca).

## PHOTOMETRIC PLOTS

**CBTS22-LED40A20-H-VK-DIM (40W 4000K)  
MOUNTED AT 9 FEET**

LUMENS 5883

MAX CALCULATED VALUE 24.70



**CBTS24-LED50A30-H-VK-DIM (50W 4000K)  
MOUNTED AT 9 FEET**

LUMENS 7156

MAX CALCULATED VALUE 29

