

### OVERVIEW

The CTB Series contemporary center lens design delivers a soft natural glow with even illumination and minimized glare making it an attractive general-purpose ambient lighting solution. The optional factory-installed Sigtex Emergency Lighting Control option ensures full emergency code compliance at the lowest possible cost.

### SPECIAL FEATURES

- **Emergency lighting from 1,250 Lm to 2,100 Lm with adjustable Emergency Lighting Control (ELC), powered from a Sigtex low-voltage central battery system.**  
**See Page 2 for details.**
- Available with factory-installed UL Listed Emergency Lighting Control (ELC), for connection to a Sigtex central battery, DC emergency power system.
- Available in 3500k (warm/neutral white), 4000k (neutral white) & 5000k (cool white) color temperatures\*.
- Long life LEDs provide at least 180,000 hours of operation with at least 70% of initial lumen output (L70) and 54,000 hours with at least 90% of initial lumen output (L90)\*\*.
- Uniform illumination with no visible LED pixilation.
- Universal 120 277 AC voltage (50 60Hz) is standard.
- 0 10vdc, continuous dimming capability is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index (R a ) > 80.
- Steel housing and PMMA (polymethyl methacrylate) frosted lens.
- Easy installation in new construction or retrofit. Fits in standard 2' x 2' or 2' x 4' grid ceilings.
- Built in earthquake clips provide secure installation in grid ceilings.
- Standard mounting options include recessed mounting in grid ceilings, or suspended mounting using earthquake clips. For other mounting options, see Mounting Means.

\* Contact factory for other color temperatures and lumen packages.

Default kelvin temperature 4000k and highest lumen output.

\*\* L90 hours are IES TM-21-11 calculated hours.

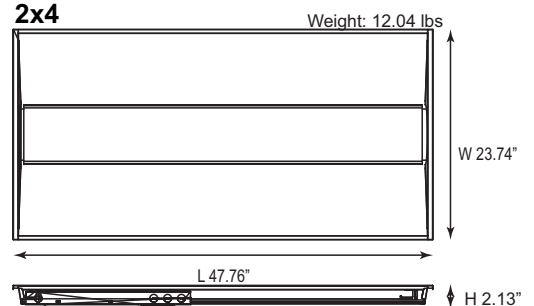
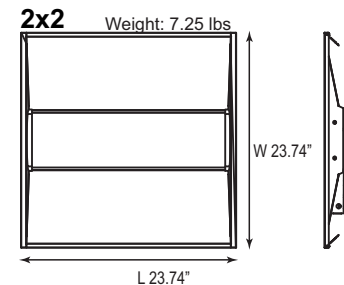
### WARRANTY & LISTINGS

- cULus listed for damp locations and Operating temperature (ambient): -25°C to 50°C (-13°F to 122°F).
- UL listed for maximum of 4, 12 AWG through branch circuit conductor.
- Inherently protected.
- Type IC rated for insulated ceilings.
- DLC 5.1 premium approved.
- Low risk of flicker (per IEEE1789 2015) at 100% light output level.
- Complies with FCC Part 15, class B.
- Complies with IEEE C.62.41 1991, Class A input transient surge protection (2.5kV).
- View Sigtex [Warranty](#) for further details

PROJECT:

TYPE:

CATALOG #:



### FIXTURE ORDERING INFORMATION EXAMPLE: CTB24-SLSK-AC-ELC10P2

CTB	24	SL	SK	AC	ELC10P2	
SERIES	SIZE	SELECTABLE <sup>1</sup>		OPERATION	OPTIONS	
		NOMINAL LUMENS	(SL) COLOR TEMP (SK)			
CTB	22 2' x 2'	SL	4,700 / 4,200 / 3,600	SK	AC 120-277VAC RE 24V Remote from central battery	ELCPXX <sup>2</sup> Emergency Lighting Control EMXX Emergency Driver ODS Occupancy Sensor Microwave SMKXX Surface Mount Kit FLKXX Flange KIT CMK Cable Mount Kit
	24 2' x 4'	SL	6,000 / 5,200 / 4,700			

## EMERGENCY LIGHTING CONTROLS (ELC)

For use with Signtex Lighting DC Central Battery System

MODEL	ELC10P2		ELC14P2	
	EPR <sup>1</sup> WATTS (MIN.)	EM LUMENS <sup>2</sup>	EPR WATTS (MAX.) <sup>3</sup>	EM LUMENS
CTB22	10	1300	14	1750
CTB24	10	1300	14	1750

<sup>1</sup> Emergency power rating (Factory Adjustable).

<sup>2</sup> Nominal output at 4000K and Efficacy in Mid-Lumen Range.

<sup>3</sup> Maximum Emergency Power Rating (EPR).

### NOTE:

Emergency lumens are calculated based on efficacy in the MID-LUMEN range (4000K) from the Electrical Data Table. The value is adjustable through the EPR range shown above. For maximum efficiency, EPR should be set at the minimum level for compliance with NFPA Life Safety Code, based on photometric data for the fixture when installed.

To calculate lumen output within the EPR range given:

**Lumens = EPR (watts) x Luminaire Efficacy (Lm/watt)**

## ACCESSORIES

### Remote Mount Sensors:

#### Sensor:

YM2301	=	Ceiling Mount 360° PIR Sensor
YM2108T	=	Wall Switch With PIR OCC/VAC Sensor
		Default sensor settings: detection area = 100%, hold time = 5 sec, daylight threshold = disabled, stand-by period = 0 sec, stand-by dimming level = 10%
HD05R	=	Remote control required for programming s factory installed microwave sensor (sold separately)

#### Dimmer:

DWS-010-T	=	0-10V Dimmer, Toggle Switch
DWS-010-D	=	0-10V Dimmer, Decora Switch
IP710-DLZ	=	0-10V Dimmer, Button Switch

### Mounting Option:

SMK-22	=	Compatible Surface Mount Kit for CTB22.
SMK-24	=	Compatible Surface Mount Kit for CTB24.
FLK-22	=	Compatible Recessed Flange Mount Kit for CTB22.
FLK-24	=	Compatible Recessed Flange Mount Kit for CTB24.
CMK	=	Set Of (4) 1 Meter Cables For Suspending CTB22 and CTB24.

### Remote Mount EM Drivers:

BLEM-CP-5C	=	5W Emergency Driver W/Conduit and Test Button
BLEM-CP-10C	=	10W Emergency Driver W/Conduit and Test Button
BLEM-CP-13C	=	13W Emergency Driver W/Conduit and Test Button

## COMPATIBLE EMERGENCY DRIVERS-INSTALLED

Emergency Driver Part Number	EM5		EM10		EM13	
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens
CTB22	5	650	10	1300	13	1690
CTB24	5	650	10	1300	13	1690

## ELECTRICAL DATA

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
CTB22-SLSK	3500K	0.21	0.11	0.09	0.25	0.12	0.11	0.29	0.14	0.12
	4000K	0.20	0.10	0.09	0.24	0.12	0.10	0.28	0.14	0.12
	5000K	0.21	0.11	0.09	0.25	0.12	0.11	0.29	0.14	0.13
CTB24-SLSK	3500K	0.28	0.14	0.12	0.31	0.15	0.13	0.37	0.18	0.16
	4000K	0.27	0.13	0.12	0.30	0.15	0.13	0.35	0.18	0.15
	5000K	0.28	0.14	0.12	0.31	0.16	0.13	0.37	0.18	0.16

## LUMEN TABLES

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
CTB22-SLSK	Lumens	3,447	3,608	3,591	3,953	4,174	4,136	4,500	4,769	4,716
	Watt	25.58	24.54	25.34	29.68	28.75	29.83	34.61	33.39	34.78
	Efficacy	134.75	147.03	141.71	133.19	145.18	138.65	130.02	142.83	135.60
CTB24-SLSK	Lumens	4,530	4,670	4,573	4,997	5,174	5,055	5,752	5,974	5,792
	Watt	33.11	32.15	33.3	37.12	35.96	37.36	43.91	42.37	44.18
	Efficacy	136.81	145.26	137.33	134.62	143.88	135.31	131.00	141.00	131.10

## PHOTOMETRICS

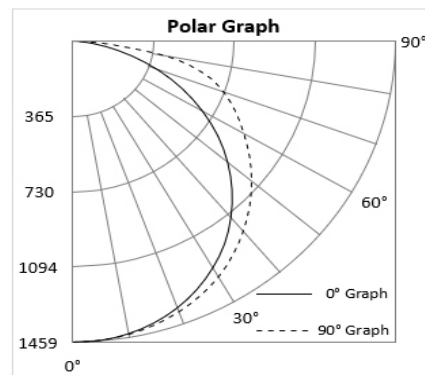
### CTB22-SLSK Luminaire Data

Description	2X2 Center Basket Lumen and Kelvin Select
Total Lumens	4,205
Input Wattage	33
Efficacy (lm/W)	126
Spacing Criterion (0-180°)	1.3
Spacing Criterion (90-270°)	1.36

\*Represents performance  
when set to 4000k and  
highest lumen output.

### Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	475	11.3%
0-30°	1,020	24.3%
0-40°	1,694	40.3%
20-50°	1,943	46.2%
40-70°	1,995	47.4%
0-60°	3,108	73.9%
0-80°	4,092	97.3%
0-90°	4,205	100.0%
90-180°	0	0.0%
0-180°	4,205	100.0%



### CTB24-SLSK

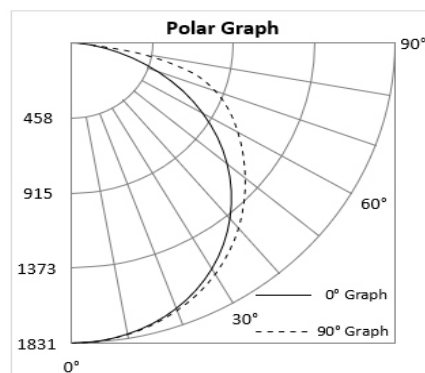
### Luminaire Data

Description	2X4 Center Basket Lumen and Kelvin Select
Total Lumens	5,675
Input Wattage	42
Efficacy (lm/W)	134
Spacing Criterion (0-180°)	1.3
Spacing Criterion (90-270°)	1.34

\*Represents performance  
when set to 4000k and  
highest lumen output.

### Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	641	11.3%
0-30°	1,374	24.2%
0-40°	2,279	40.2%
20-50°	2,609	46.0%
40-70°	2,680	47.2%
0-60°	4,175	73.6%
0-80°	5,512	97.1%
0-90°	5,675	100.0%
90-180°	0	0.0%
0-180°	5,675	100.0%



### COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W

### PLUGS AND CORDS

When ordering a plug, use the following suffix choices.

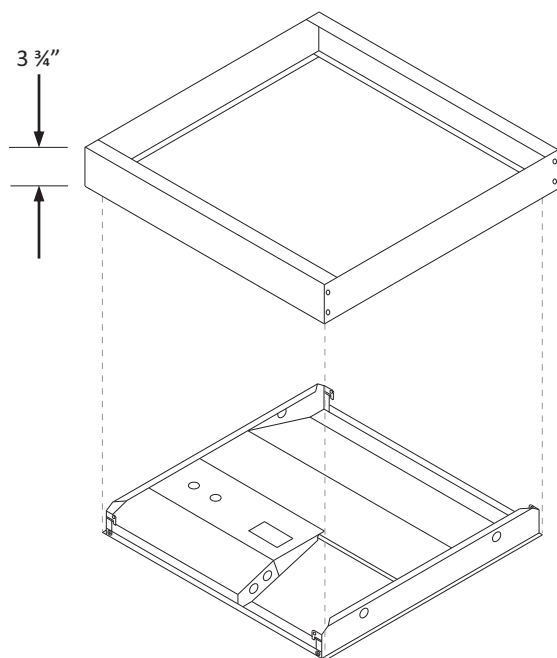
Example: CTB22-SLSK-6W3, CTB24-SLSK-6W3 Note: Cords & plugs do not affect the ability to install sensors.

Part number suffix	Description	For use with
6W3	6' whip - 3 conductor (black/white/green)	Standard & UNC
6W4	6' whip - 4 conductor (black/white/green/red)	EM driver
6W5	6' whip - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
6W6	6' whip - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver

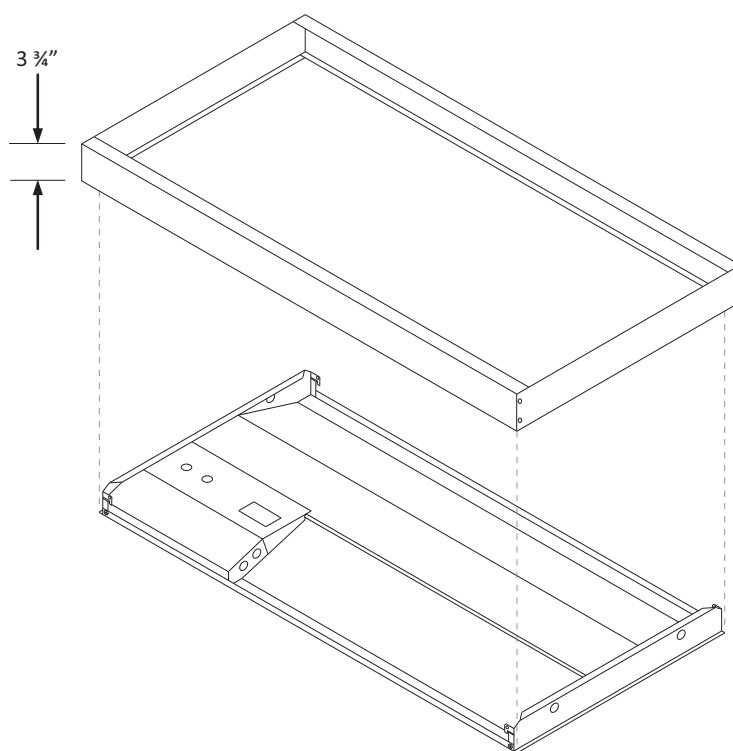
### MOUNTING MEANS - ORDER SEPARATELY

- Optional Surface Mounting Kit (SMK-22 & SMK-24) mounts below the ceilings.

*Surface Mounting Kits  
(SMK-22)*



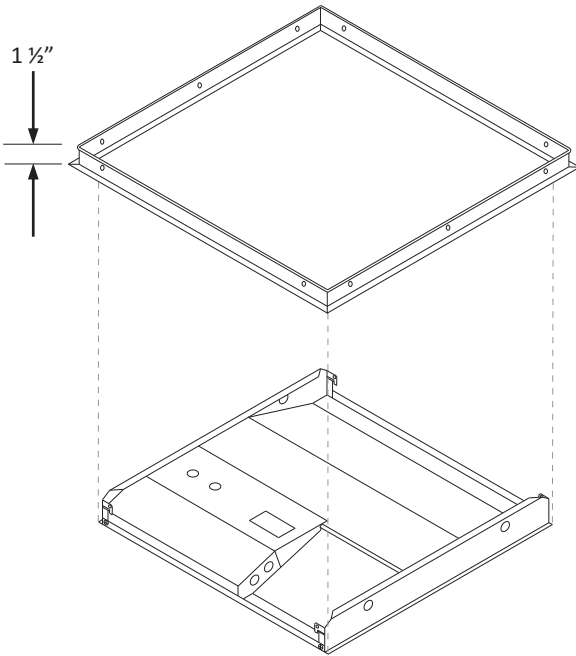
*Surface Mounting Kits  
(SMK-24)*



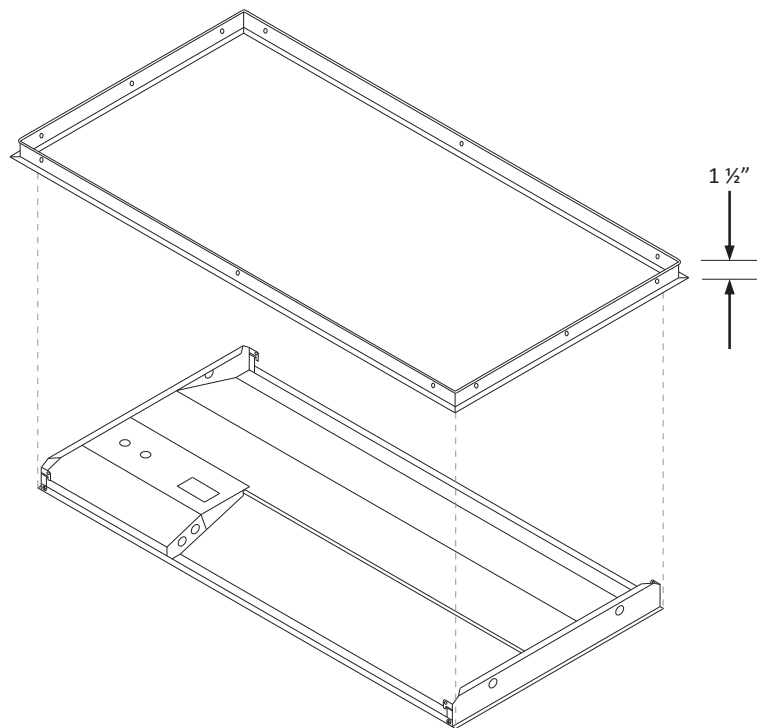
### MOUNTING MEANS - ORDER SEPARATELY

- Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attached Flange Mount Kit (FLK22-ET & FLK24-ET) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.

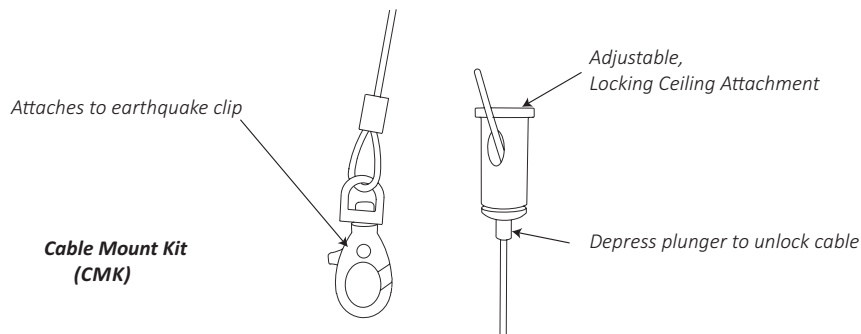
**Flange Mount Kit  
(FLK22-ET)**



**Flange Mount Kit  
(FLK24-ET)**



- Optional cable mounting kits provide additional security, as well as sus-pended mounting. Attach one end of the Cable Mount Kit (CMK) to luminaire earthquake clips using spring clips, and attach the other end to stationary structures using the adjustable, locking ceiling attachment.



# NOTES