CTB22 SERIES

2X2 CENTER BASKET DLC PREMIUM

FME Lighting
ILLUMINATING INDUSTRIAL APPLICATIONS

Project:	
Type:	
Catalog #:	

STANDARD

UL CERTIFIED · DLC QPL LISTED PREMIUM · FC · DAMP · IC RATED FOR INSULATED CEILINGS · 2.5kV Surge Protection

FEATURES

- *Available in 3500k (warm/neutral white), 4000k (neutral white) & 5000k (cool white) color temperatures.**

- *Long-life LEDs provide at least 144,000 hours of operation with at least 70% of initial lumen output (L_{70}).***

- *Provides 3,096-3,212 lumens and 130-135 lumens per watt (LPW).*

- *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) $\geq$ 80.*

- *Steel housing and PMMA lens.*

- *Easy installation in new construction or retrofit. Fits in standard 2' x 2' 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 (page 4).*

*   *Contact factory for other color temperatures and lumen packages.*
** *L70 hours are IES TM-21-11 calculated hours.*

WARRANTY & LISTINGS

- *cULus listed for damp locations and insulated ceiling in ambient temperatures from -20°C to 50°C (-4°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 5.0 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).*
- *5-year warranty of all electronics and housing.*

DIMENSIONS

23 ¾"

23 ¾"

2 ¾"

Weight: 11.5 lbs.

ORDERING INFORMATION

Series	Nominal Lumens		Color Temperature		DLC	Occupancy Sensor [1]		Emergency Driver [2][3]	
CTB22	3L	3,000 lm	35K	3500K	P	OS	Microwave	EM8	800 lumens
			4K	4000k		Blank	No occupancy sensor	EM12	1,200 lumens
			5K	5000k				EM16	1,600 lumens
								EM20	2,000 lumens
								EM24	2,400 lumens
								EC8	800 lumens
								EC12	1,200 lumens
								EC16	1,600 lumens
								EC20	2,000 lumens
								EC24	2,400 lumens
								Blank	No emergency driver

[1] Contact factory for other sensors.
[2] See list of emergency drivers (page 3).
[2] *EC* emergency drivers are California Energy Commission (CEC) listed.

ELECTRICAL DATA

Model	Color Temp.	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage	Input Current (A)			Power Factor	THD [2]	L70 Hours [3]
							120V	240V	277V			
CTB22-3L-35K-P	3500k	> 80	3,096	24	130	120-277V	0.20	0.10	0.09	> 90%	< 20%	144,000
CTB22-3L-4K-P	4000k	> 80	3,192	24	134	120-277V	0.20	0.10	0.09	> 90%	< 20%	144,000
CTB22-3L-5K-P	5000k	> 80	3,212	24	135	120-277V	0.20	0.10	0.09	> 90%	< 20%	144,000

[1] Color rendering index

[2] Total harmonic distortion

[3] L_{70} refers to the number of hours at which lumen output declines to 70% of the initial level. L_{70} hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

CTB22-3L-5K-PRM Luminaire Data

Description	2X2 LED Center Basket 3L, 5K
Total Lumens	3,212
Input Wattage	24
Efficacy (lm/W)	135
Spacing Criterion (0-180°)	1.22
Spacing Criterion (90-270°)	1.3

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	399	12.4%
0-30°	844	26.3%
0-40°	1,377	42.9%
20-50°	1,532	47.7%
40-70°	1,487	46.3%
0-60°	2,444	76.1%
0-80°	3,135	97.6%
0-90°	3,212	100.0%
90-180°	0	0.0%
0-180°	3,212	100.0%

Polar Graph
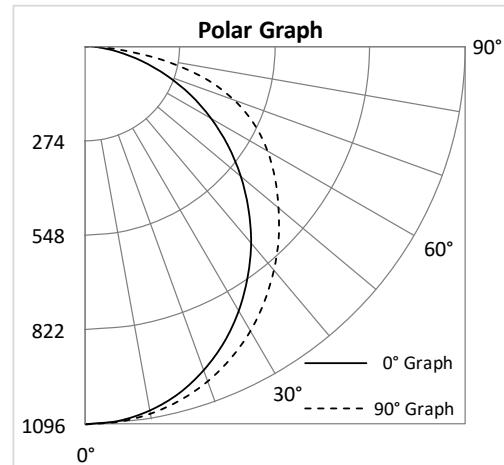
COMPATIBLE EMERGENCY DRIVERS *

| Emergency Driver Part Number	EM8 / EC8		EM12 / EC12		EM16 / EC16		EM20 / EC20		EM24 / EC24		Runtime
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	
CTB22-3L-xxK-PRM	5.0	650	7.8	1020	10.7	1390	13.7	1780	17.0	2210	90 MINS.
CTB24-5L-35K-PRM	5.0	650	7.8	1020	10.7	1390	13.7	1780	17.0	2210	90 MINS.

* Suitable for ambient above 0°C (32°F)

COMPATIBLE DIMMERS

Manufacturer	Model Number	Dimming Range	Load Switching Capacity
Lutron	DVSTV	10%-100%	450W
Leviton	IP710-LFZ	10%-100%	1200W
General Protecht	DMD-LED3-102	10%-100%	600W

MOUNTING MEANS – ORDER SEPERATATLY

▪ *Optional surface mounting kits (SMKT-22) mounts below the ceiling.*

▪ *Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attach Flange Mount Kit (FLANGEKIT22-ET) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.*

▪ *Optional cable mounting kits provide additional security, as well as suspended mounting. Attach one end of the Cable Mount Kit (LEDPNL-CMK) to luminaire earthquake clips using spring clips, and attach the other end to stationary structures using the adjustable, locking ceiling attachment (see picture below right).*

3 ¾"

**Surface
Mounting Kit
(SMKT-22)**

1 ½"

**Flange Mounting Kit
(FLANGEKIT22-ET)**
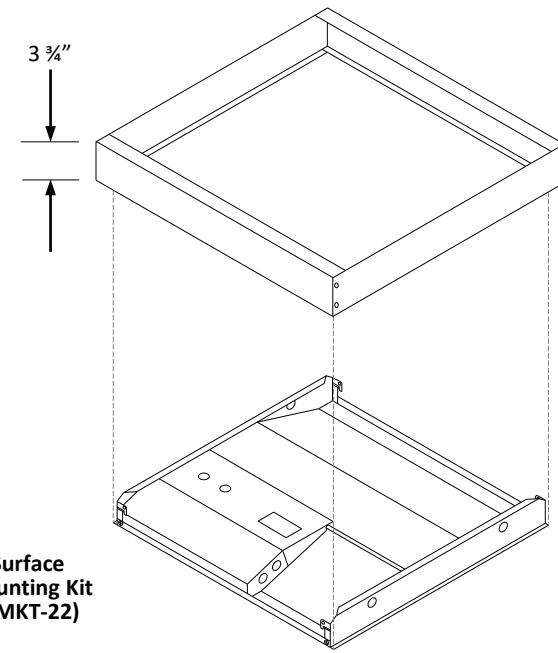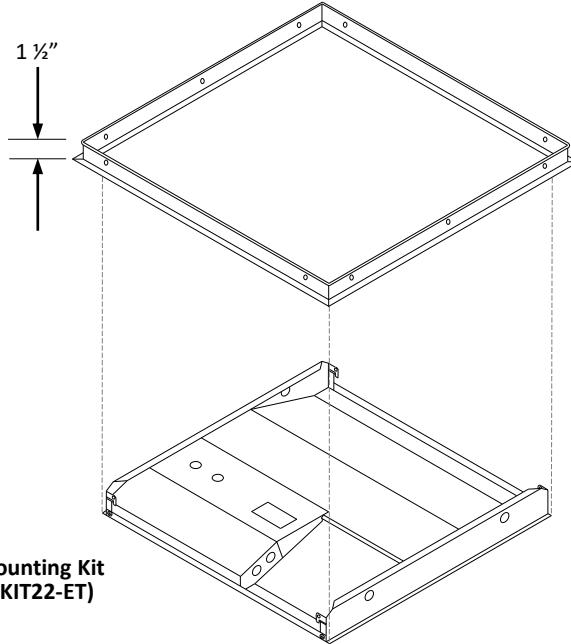
**Cable
Mounting Kit
(LEDPNL-CMK)**

Spring Clip:
Attaches to
earthquake clip

Adjustable,
Locking Ceiling
Attachment

Depress plunger to
unlock cable
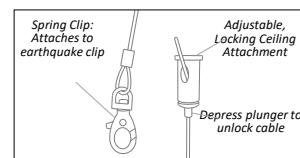
Cable Mount Kit:
• *Spring Clip*
• *Adjustable, locking ceiling attachment*