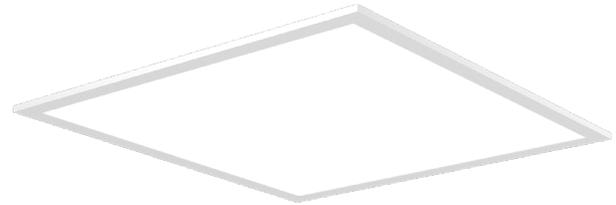


DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

tradeSELECT®

FEATURES

- Switchable Lumen technology: 4400/3300/2750 lumens (1x4 and 2x2)
5500/4400/3300 lumens (2x4)
- Switchable CCT technology: 3500/4000/5000K
- 1x4, 2x2, and 2x4 sizes
- 0-10V 1% Dim to Off driver (standard) provides superior dimming capabilities
- IC rated
- Back-lit design and frosted lens provides smooth, even illumination across the face of the luminaire
- All CBT LSCS Generation A units are priced as single units and must be ordered as single units. Two packaging options are available



SERVICE PROGRAMS

STOCK QS10



Typical Dimensions and Weights			
	CBT14 (1x4)	CBT22 (2x2)	CBT24 (2x4)
Length	11.9" / 303 mm	23.7" / 603 mm	23.7" / 603 mm
Width	47.8" / 1213 mm	23.7" / 603 mm	47.8" / 1213 mm
Height	2.0" / 50 mm	2.0" / 50 mm	2.0" / 50 mm
Weight*	4.99lbs / 2.26kg	4.92lbs / 2.23kg	9.37lbs / 4.25kg

*Base configurations; weight varies by option

SPECIFICATIONS

CONSTRUCTION

- Aluminum lens frame has a matte white finish
- Luminaire housing is die formed code-gauge steel
- Low profile design is ideal for shallow plenum applications

OPTICS

- Acrylic micro-optics over each LED provide edge to edge illumination without pixelation or bright spots
- Frosted textured lens provides smooth surface brightness

INSTALLATION

- Integral T-bar clips for secure mounting to 9/16" and 15/16" grid ceiling
- For surface mount applications use surface mount kit accessories
- For plaster or sheet rock installations, use flange kit accessories

ELECTRICAL

- 60,000 hour LEDs at L90 for reduced maintenance
- Operates at 120–277V. 1V minimum low-end trim recommended when paired with a 0-10V dimmer
- 0–10V 1% Dim to Off driver is standard. See additional info on page 6
- Switchable luminaire default settings at highest lumen output and 3500K

PACKAGING

- All CBT LSCS Generation A units are priced as single units and must be ordered as single units. Two packaging options are available

CERTIFICATIONS

- All luminaires are built to UL 1598 standards and bear appropriate cULus labels
- Damp location label standard
- Adheres to LM79, LM80, and TM21 industry standards for photometrics and lifetime calculations

CERTIFICATIONS (CONTINUED)

- DLC® (DesignLights Consortium Qualified.) Please refer to the DLC website for specific product qualifications at www.designlights.org
- UL Sanitation Certified to NSF 2 Food Equipment standard for non-food zones
- Tested in accordance with ISO 14644-1; suitable for ISO Class 4-9 positive and negative pressure clean rooms
- Emergency battery options are California Energy Commission (CEC) Title 20 Compliant
- Suitable for ambient temperatures from -25°C to 25°C

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	2750 - 5700
Wattage Range	24w - 48w
Efficacy Range (LPW)	115 -123
Reported Life (Hours)	L90/60,000

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

Gray Shading = Service Program
Limit of 50 Luminaries **QS10**

ORDERING GUIDE

Example: CBT14-A-LSCS-EDD-2PK

CATALOG #

CBT		Generation	Selectable	Driver	Packaging	Options
Model	Size					
CBT Back-lit Troffer	14 1x4 22 2x2 24 2x4	A Generation A	LSCS Lumen Selectable, CCT Selectable	EDD 0-10V Dim to Off ¹	Blank ⁴ 2PK 2 Pack ²	ELL14 10W Emergency Battery Pack (CEC Title 20 Compliant) Installed C588 5 Wire Flex C688 6 Wire Flex ³

Notes:

- 1 EDD - Dim to Off Standard. See additional detail on page 6
- 2 2PK - must be ordered as single units in even quantities, as this product is packed two fixtures per box. It should be noted in receiving documents that one box has two units and should be received as two units.
- 3 Can only be ordered with ELL14 Battery Option
- 4 Fixtures are priced as single fixtures and must be ordered as single fixtures. Standard packaging is a master carton containing four individually boxed fixtures. It should be noted in receiving documents that one master carton includes four individually boxed fixtures and should be received as four fixtures

STOCKED OPTIONS

Catalog Number	Description	Setting	Lumens			Watts	Lumens Per Watt (LPW)			Weight	Carton Qty	UPC
			3500K	4000K	5000K		3500K	4000K	5000K			
CBT14-A-LSCS-EDD-2PK	1x4 Back-Lit Troffer; 4400/3300/2750 Switchable Lumens; 3500/4000/5000K Switchable CCT; 80 CRI; 0-10V 1% Dim to Off; 120-277V	LOW	2750	2850	2800	24	115	119	117	4.99 lb 2.19 kg	2 [^]	84014142184
CBT14-A-LSCS-EDD		MED	3300	3400	3350	28	118	121	120		4 [*]	840141432670
		HIGH	4400	4600	4500	38	116	121	118		10840141432677	
CBT22-A-LSCS-EDD-2PK	2x2 Back-Lit Troffer; 4400/3300/2750 Switchable Lumens; 3500/4000/5000K Switchable CCT 80 CRI; 0-10V 1% Dim to Off; 120-277V	LOW	2750	2850	2800	24	115	119	117	4.96 lb 2.24 kg	2 [^]	840141422207
CBT22-A-LSCS-EDD		MED	3300	3400	3350	28	118	121	120		4 [*]	840141432687
		HIGH	4400	4600	4500	38	116	121	118		10840141432684	
CBT24-A-LSCS-EDD-2PK	2x4 Back-Lit Troffer; 5500/4400/3300 Switchable Lumens; 3500/4000/5000K Switchable CCT 80 CRI; 0-10V 1% Dim to Off; 120-277V	LOW	3300	3450	3400	28	118	123	121	9.37 lb 4.25 kg	2 [^]	840141422221
CBT24-A-LSCS-EDD		MED	4400	4600	4500	38	116	121	118		4 [*]	840141432700
		HIGH	5500	5800	5700	48	115	121	119		10840141432707	

Notes:

- [^] Must be ordered as single units in even quantities as this item is packed two fixtures per carton
- ^{*} Must be ordered in single units, with no quantity restrictions as standard packaging is a master carton containing four individually boxed fixtures.

MADE TO ORDER OPTIONS

Factory Installed Flexible Conduit & Battery Options

Catalog Number	UPC	Description	Carton Qty
<input type="checkbox"/> CBT14-A-LSCS-EDD-ELL14	840141430058	1x4 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery (CEC Title 20 Compliant)	1
<input type="checkbox"/> CBT22-A-LSCS-EDD-ELL14	840141430065	2x2 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery (CEC Title 20 Compliant)	1
<input type="checkbox"/> CBT24-A-LSCS-EDD-ELL14	840141430072	2x4 Back-lit LED Troffer, 5500/4400/3300lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery (CEC Title 20 Compliant)	1
<input type="checkbox"/> CBT14-A-LSCS-EDD-C588	603134946468	1x4 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 5 Wire Flexible Conduit	1
<input type="checkbox"/> CBT22-A-LSCS-EDD-C588	603134946482	2x2 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 5 Wire Flexible Conduit	1
<input type="checkbox"/> CBT24-A-LSCS-EDD-C588	603134946505	2x4 Back-lit LED Troffer, 5500/4400/3300lm, 3500/4000/5000K, Dim to Off, Factory Installed 5 Wire Flexible Conduit	1
<input type="checkbox"/> CBT14-A-LSCS-EDD-ELL14-C688	603134946475	1x4 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery & 6 Wire Flexible Conduit	1
<input type="checkbox"/> CBT22-A-LSCS-EDD-ELL14-C688	603134946499	2x2 Back-lit LED Troffer, 4400/3300/2750lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery & 6 Wire Flexible Conduit	1
<input type="checkbox"/> CBT24-A-LSCS-EDD-ELL14-C688	603134946512	2x4 Back-lit LED Troffer, 5500/4400/3300lm, 3500/4000/5000K, Dim to Off, Factory Installed 10W EM Battery & 6 Wire Flexible Conduit	1

Can be ordered in single unit (odd number) quantities as this is a factory installed option

ELL14 option uses a 10 watt Emergency Battery. To determine lumen output in emergency mode, multiply 10w by the fixture lumens per watt (LPW). EX: 10w x 123LPW = 1230 Lumens in Emergency Mode

CBT Gen A fixtures with factory installed ELL14 option require a remote mounted test switch. The Dual Lite PLRTS is included with each CBT that has a factory installed ELL14 option, standard.

ORDERING GUIDE CONTINUED

Accessories (Order Separately)	Part #	UPC	Notes & Restrictions
Flange Kits			
<input type="checkbox"/> FK14	FK14	078531000745	1x4 Single Flange Kit
<input type="checkbox"/> FK22	FK22	078531000752	2x2 Single Flange Kit
<input type="checkbox"/> FK24	FK24	078531038991	2x4 Single Flange Kit
Surface Mount Kits			
<input type="checkbox"/> PSMK14	93302543	662055127905	1x4 Shallow Surface Mount Kit, 63mm
<input type="checkbox"/> PSMK22	93302544	662055127912	2x2 Shallow Surface Mount Kit, 63mm
<input type="checkbox"/> PSMK24	93302545	662055127929	2x4 Shallow Surface Mount Kit, 63mm
<input type="checkbox"/> DSMK14	93313908	840141433134	1x4 Deep Surface Mount Kit, 110mm, for use with ELL14 and EMBB options
<input type="checkbox"/> DSMK22	93313898	840141433219	2x2 Deep Surface Mount Kit, 110mm, for use with ELL14 and EMBB options
<input type="checkbox"/> DSMK24	93313899	840141433226	2x4 Deep Surface Mount Kit, 110mm, for use with ELL14 and EMBB options
<p>Emergency Battery - CBP Gen A EMBB Kits use a 10 watt Emergency Battery. To Determine lumen output in emergency mode, multiply 10w by the fixture lumens per watt (LPW). Ex: 10w x 123 LPW = ~1230 lumens in emergency mode. A remote mounted test switch is required when installing an EMBB Kit (listed below) on the CBT Gen A, we recommend the Dual Lite PLRTS (order separately).</p>			
<input type="checkbox"/> CBP14A EMBB Kit	93308995	662055313940	1x4 CBP Gen A EMBB (CEC Title 20 Compliant) Field Installable Kit
<input type="checkbox"/> CBP224A EMBB Kit	93308998	662055313971	2x2 & 2x4 CBP Gen A EMBB (CEC Title 20 Compliant) Field Installable Kit
347V			
<input type="checkbox"/> CBP14A 347V Kit	93308996	662055313957	1x4 CBP Gen A 347V Field Installable Kit
<input type="checkbox"/> CBP224A 347V Kit	93308999	662055313988	2x2 & 2x4 CBP Gen A 347V Field Installable Kit
Dimming Bypass Module			
<input type="checkbox"/> CBP14A DTS Kit	93308997	662055313964	1x4 CBP Gen A DTS Field Installable Kit
<input type="checkbox"/> CBP224A DTS Kit	93309000	662055313995	2x2 & 2x4 CBP Gen A DTS Field Installable Kit
Switch Cover			
<input type="checkbox"/> PSC Switch Cover 50PK	93167456	840141413426	CBP Gen A Selectable Driver Switch Cover

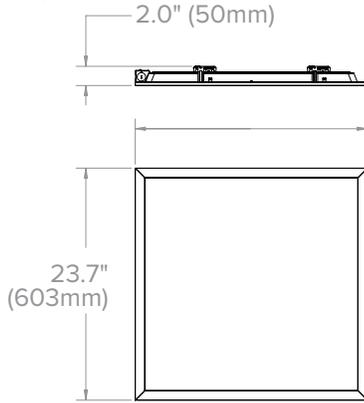
DLC LISTINGS

Size	DLC Model #	DLC Product ID #
1x4	CBT14-A-LSCS-EDD-2PK-HIGH-3500K	S-V0XH25
	CBT14-A-LSCS-EDD	S-0BBXCH
2x2	CBT22-A-LSCS-EDD-2PK-HIGH-3500K	S-TGP9ED
	CBT22-A-LSCS-EDD	S-6LZF85
2x4	CBT24-A-LSCS-EDD-2PK-HIGH-3500K	S-9KC4SA
	CBT24-A-LSCS-EDD	S-J8QJ2F

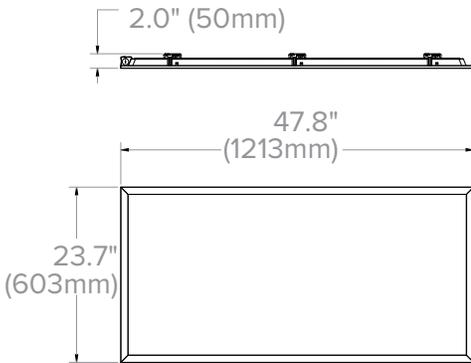
DIMENSIONS

Basic Version

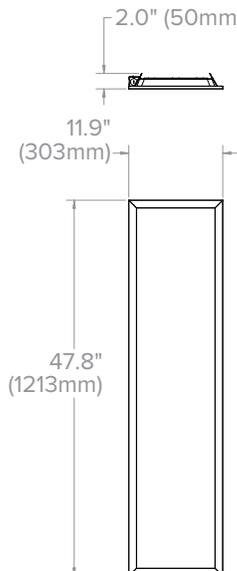
2x2 example



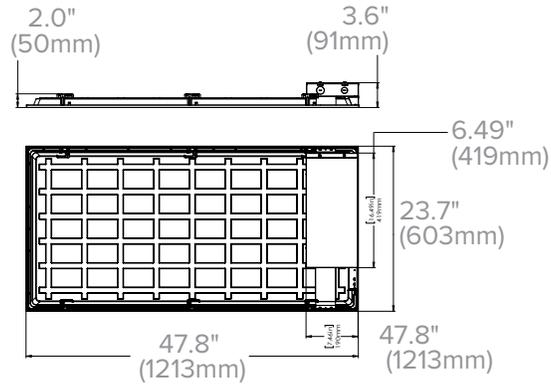
2x4 example



1x4 example

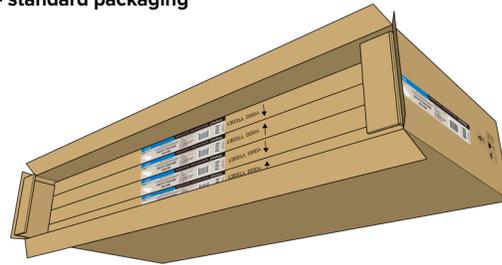


2x4 example with EMBB kit



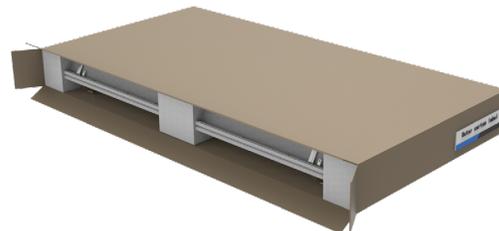
PACKAGING INFO

4 Pack — standard packaging



Standard 4 Pack. Fixtures are priced as single fixtures and must be ordered as single fixtures. Standard packaging is a master carton containing four individually boxed fixtures. It should be noted in receiving documents that one master carton includes four individually boxed fixtures and should be received as four fixtures

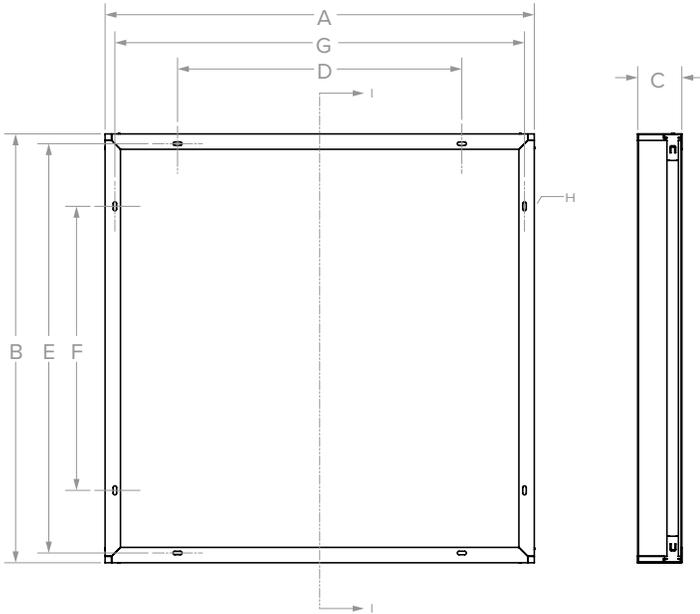
2 Pack option — indicate 2PK in "Packaging" section of ordering SKU



2 Pack. Must be ordered as single units in even quantities, as this product is packed two fixtures per box. It should be noted in receiving documents that one box has two units and should be received as two units.

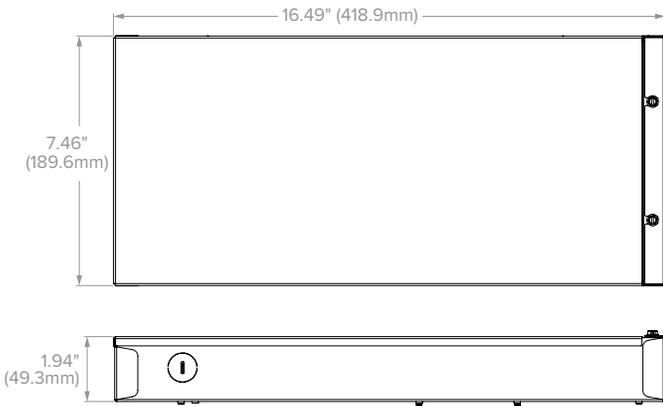
ACCESSORY DIMENSIONS

Surface Mount PSMK Dimensions - 2x2 example see below chart for all size dimensions

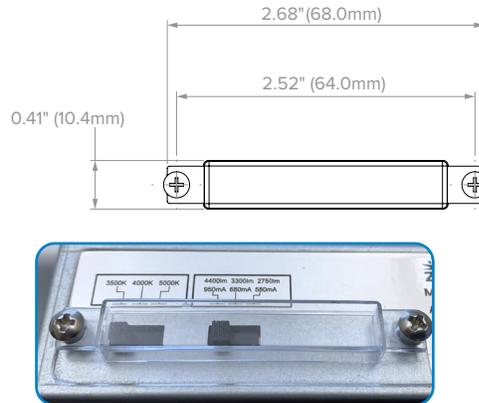


Product Code	Description	A (in)	B (in)	C (in)	D (in)	E (in)	F (in) Between Holes	G (in)
93302543	PSMK14 1x4 SMK - 63mm	12.32	48.09	2.48	-	46.91	16.0 (3 holes)	11.14
93302544	PSMK22 2x2 SMK - 63mm	24.25	24.25	2.48	16.0	23.06	16.0	23.06
93302545	PSMK24 2x4 SMK - 63mm	24.25	48.09	2.48	16.0	46.91	16.0 (3 holes)	23.06
93313908	DSMK14 1x4 SMK - 110mm	12.35	48.07	4.34	-	46.91	16.0 (3 holes)	11.14
93313898	DSMK22 2x2 SMK - 110mm	24.27	24.27	4.34	16.0	23.06	16.0	23.06
93313899	DSMK24 2x4 SMK - 110mm	24.27	48.07	4.34	16.0	46.91	16.0 (3 holes)	23.06

Control Box



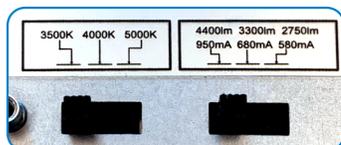
PSC Switch Cover



ADDITIONAL INFO

LSCS Switches Default Settings

Maximum Lumen Output and 3500K CCT



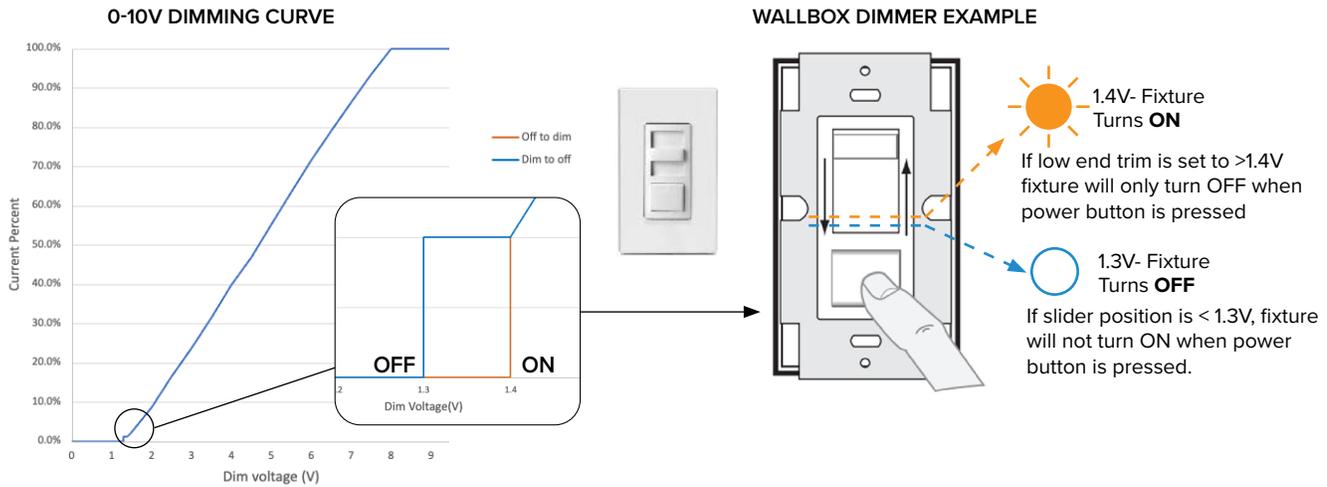
0-10V DIMMER COMPATIBILITY

Fixture operates at 120-277V. 0-10V dimmable driver, down to 1%.
1V minimum low-end trim recommended when paired with a 0-10V dimmer.

List of suitable dimmers based on laboratory testing. Compatibility must be verified by customer before install. Columbia cannot guarantee dimmer compatibility

- NX Lighting Controls RSD710
- LUTRON DVTV
- Synergy® ISD BC120/277
- NX Lighting Controls PSD710
- LUTRON NTSTV-DV
- Enerlites® 51300L
- Lutron® Diva DVST
- Eaton® DF10P-C1

ADDITIONAL DIMMING INFORMATION: DIMMING CURVE



DIM TO DARK FUNCTION

Dimmer Low End Trim Settings	ON/OFF Operation		Dimmer Control Range
> 1.4V	ON/OFF Toggle power control only		Full output to Low End Trim Setting
1.3V to 1.4V	<p>ON Adjust dimmer control above 1.4V + Set power control to ON</p>	<p>OFF Set power control to OFF</p>	Full output to Low End Trim Setting
< 1.3V	<p>ON Adjust dimmer control above 1.4V + Set power control to ON</p>	<p>OFF Set power control to OFF or Adjust dimmer below 1.3V level</p>	Full output to OFF