

CB SERIES

Power and CCT Adjustable Center Basket Troffer

NORDEON

LIGHTING SOLUTIONS

DESCRIPTION

The CB Series Power and CCT adjustable Center Basket Troffer offers versatile and energy-efficient lighting with field-selectable color temperatures of 3500K, 4000K, and 5000K. Designed with long-life LEDs, it ensures at least 196,000 hours of operation while maintaining 70% of initial lumen output. Delivering between 4,500 and 5,800 lumens, this troffer provides uniform, flicker-free lighting with 80+ CRI for accurate color representation. Its universal voltage compatibility (120-277V) and 0-10V dimming capability make it adaptable to various environments, while the steel housing and PMMA lens ensure durability. Easy to install in both new construction and retrofit applications, it fits standard 2x2' and 2x4' grid ceilings and includes built-in earthquake clips for secure mounting. The CB Series is a reliable and flexible solution for high-quality, long-lasting lighting in any commercial space.



Date: _____ Type: _____ Catalog Number: _____

Project Name: _____

ORDERING INFORMATION

LUMINAIRE

MODEL	LUMEN OUTPUT	CCT	EMERGENCY DRIVER ¹	OPTIONAL ACCESSORIES
CB22 2x2' Center Basket Troffer	4L 4000 Lumen Package - Power Selectable	LKFS 35/40/50K Package - CCT Selectable	EM5 5 Watt Emergency Battery Backup - 755 Lumens	DWS-010-T 0-10v Dimmer, Toggle Switch
CB24 2x4' Center Basket Troffer	6L 6000 Lumen Package - Power Selectable		EM10 10.7 Watt Emergency Battery Backup - 1,617 Lumens	DWS-010-D 0-10v Dimmer, Decora Switch
			EM13 13.7 Watt Emergency Battery Backup - 1,940 Lumens	IP710-DLZ 0-10v Dimmer, Button Switch
			BLANK No Emergency Battery Backup - Leave Blank	

Custom options are available; consult factory for assistance via phone at (864) 487-3535 ext. 258 or via email at DesignServices@EXP-Brands.com.
See Page 4 for ordering information of available accessories.

¹All emergency drivers are installed externally and have a minimum runtime of 90 minutes.



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PHYSICAL	HOUSING	Steel Housing, White Finish	
	LENS	PMMA Lens	
	MOUNTING	Recessed Mounting in Grid Ceilings or Suspended Mounting via Earthquake Clips Standard See Page 4 for Additional Mounting Options.	
	OVERALL DIMENSIONS	2' x 2'	2' x 4'
		23.7" L x 23.7" W x 2" H	47.8" L x 23.7" W x 2" H
	WEIGHT	7 Pounds	11 Pounds
	OPERATING TEMPERATURE	-13° F to 122° F	

ELECTRICAL	POWER (field selectable)	See "Light Distributions" Section Below.
	CURRENT	See "Light Distributions" Section Below.
	VOLTAGE	Universal 120-277VAC (50-60Hz)
	DRIVER	0-10vdc Dimming Driver
	SURGE SUPPRESSION	2.5kV Input Transient Surge Protection
	POWER FACTOR	> 0.90

PHOTOMETRIC	LED	Field Selectable 3500K, 4000K and 5000K
	COLOR RENDERING INDEX	> 80
	TOTAL HARMONIC DISTORTION	< 20%
	DELIVERED LUMEN OUTPUT	Up to 5850 Lumens
	EFFICACY	Up to 141 Lumens per Watt
	LUMEN MAINTENANCE*	L70 > 196,000 Hours

LIGHT DISTRIBUTIONS	MODEL	MEASUREMENTS	LOW LUMENS			MID LUMENS			HIGH LUMENS		
	2' x 2'	CCT	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
		LUMENS	3073	3176	3120	3640	3772	3649	4220	4370	4196
		WATTS	22	22	22	27	27	27	32	31	32
		EFFICACY	137	144	139	134	142	134	131	140	131
		INPUT CURRENT @ 120V	0.18A	0.18A	0.18A	0.23A	0.23A	0.23A	0.27A	0.26A	0.27A
		INPUT CURRENT @ 277V	0.08A	0.08A	0.08A	0.10A	0.10A	0.10A	0.12A	0.11A	0.12A
	2' x 4'	LUMENS	4466	4566	4460	4922	5062	5002	5653	5850	5675
		WATTS	33	32	33	37	36	37	44	43	44
		EFFICACY	134	141	134	132	139	134	128	137	129
		INPUT CURRENT @ 120V	0.28A	0.27A	0.28A	0.31A	0.30A	0.31A	0.37A	0.36A	0.37A
		INPUT CURRENT @ 277V	0.12A	0.12A	0.12A	0.13A	0.13A	0.13A	0.16A	0.16A	0.16A
Values reflect delivered lumens at full output.											

CERTIFICATIONS	SAFETY	UL Listed for Damp Locations and Insulated Ceilings in Ambient Temperatures from -13°F to 122°F and for a Maximum of 4, 12 AWG Through Branch Circuit Conductor
	OTHER CERTIFICATIONS	DLC Approved Type IC Rated for Insulated Ceilings
	FCC	Complies with FCC Part 15, Class A
	WARRANTY	Five Year Limited Warranty

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*LED life may vary under actual field conditions due to external factors. Lifetime estimates are generated from actual testing in a controlled environment. Values are conservatively derived from those numbers.

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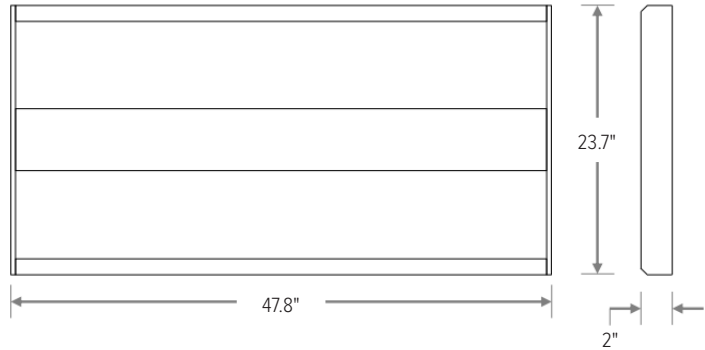
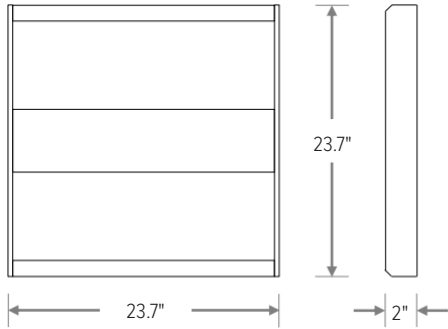
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DIMENSIONS

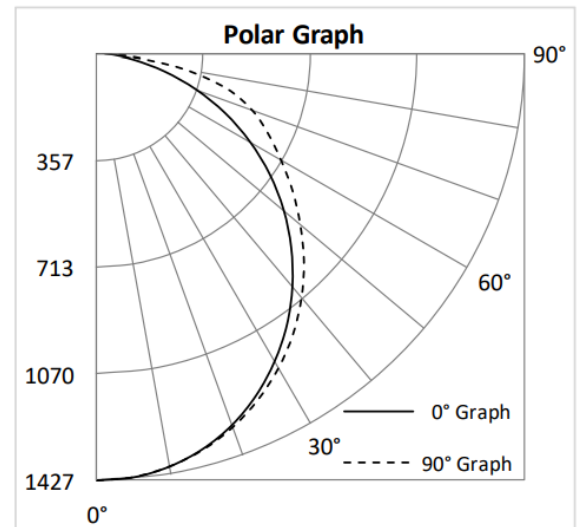
Dimensions are shown in inches.



PHOTOMETRICS

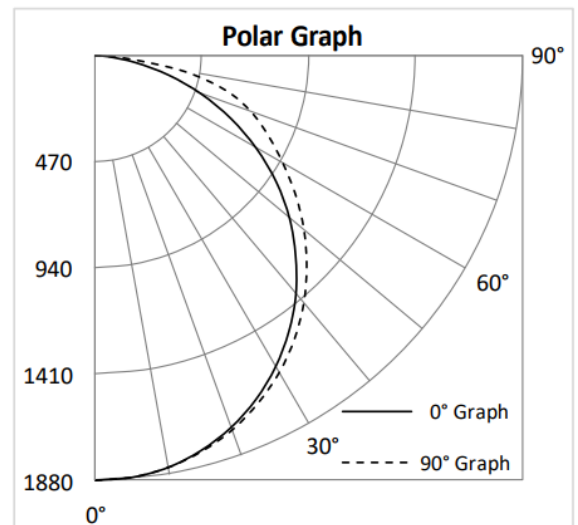
CB22-4L Luminaire Data	
Description	2x2' Center Basket Troffer @ 5000K
Total Lumens	4205
Input Wattage	32
Efficacy (lm/W)	131
Spacing Criterion (0-180°)	1.24
Spacing Criterion (90-270°)	1.28

CB22-4L Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	521	12.4%
0-30°	1104	26.3%
0-40°	1807	43%
20-50°	2017	48%
40-70°	1936	46%
0-60°	3206	76.2%
0-80°	4102	97.5%
0-90°	4202	99.9%
90-180°	3	0.1%
0-180°	4205	100%



CB24-6L Luminaire Data	
Description	2x4' Center Basket Troffer @ 5000K
Total Lumens	5675
Input Wattage	44
Efficacy (lm/W)	129
Spacing Criterion (0-180°)	1.26
Spacing Criterion (90-270°)	1.28

CB24-6L Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20°	689	12.1%
0-30°	1465	25.8%
0-40°	2407	42.4%
20-50°	2706	47.7%
40-70°	2630	46.3%
0-60°	4305	75.9%
0-80°	5526	97.4%
0-90°	5671	99.9%
90-180°	4	0.1%
0-180°	5675	100%



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MOUNTING ACCESSORIES

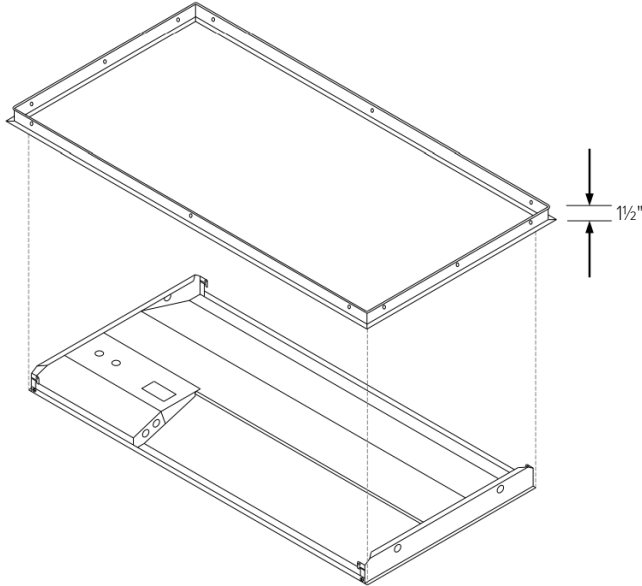
Flange Mounting Kit

FLANGEKIT22-ET (2x2') or FLANGEKIT24-ET (2x4')

For recessed installation on plaster or other hard ceilings. Attach Flange

Mounting Kit to ceiling joists or other stationary structures.

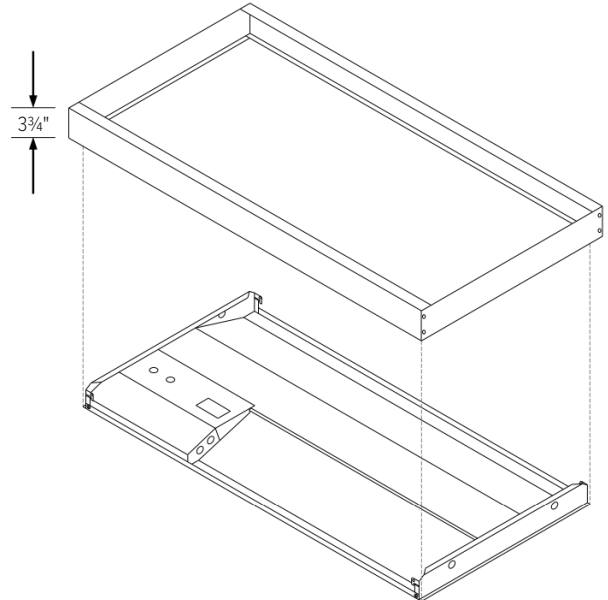
Panel is mounted flush to the ceiling.



Surface Mounting Kit

SMKT-22 (2x2') or SMKT-24 (2x4')

Surface Mounting Kit mounts below the ceiling.



Cable Mounting Kit

PNL-CM

Optional Cable Mounting Kits provide additional security, as well as suspended mounting. Attach one end of the Cable Mount Kit to luminaire earthquake clips using spring clips, and attach the other end to stationary structures using the adjustable, locking ceiling attachment.

