

DESCRIPTION

The LCB Series Sealed LED Recessed Flat Panel is designed for Medical, cleanroom, behavioral healthcare, food preparation, high-tech manufacturing and much more. It is suitable for ISO Class 3, Positive Pressure Cleanroom ISO Class 5-9 and Biosafety labs rated 1 through 4. The CCT can easily be switched between 3000K, 4000K and 5000K for the 1' x 4' and 3000K, 3500K, 4000K, 5000K, 6000K on the 2' x 2' and 2' x 4'. The wattage can be adjusted between 20W-30W-40W for the 1' x 4', 20W-30W-40W or 20W-25W-30W-35W-40W for the 2' x 2' configurations and 30W-40W-50W-60W-72W for the 2' x 4' configuration.

SPECIFICATIONS

Construction:

- Aluminum Extruded frame with Cold rolled steel backplate in white finish
- Recessed design fits most standard T-bar grid ceilings, only 2.25" deep
- Backlit design, LEDs sit at the back of the enclosure aimed directly at the diffuser to evenly illuminate the entire surface of the panel

Optics/LEDs:

- Switchable CCT, switch located outside driver box behind the unit
 - 1' x 4' switchable between 3000K-4000K-5000K CCT
 - 2' x 2' switchable between 3000K-3500K-4000K-5000K-6000K
 - 2' x 4' switchable between 3000K-3500K-4000K-5000K-6000K
- UV-stabilized PMMA optical lenses over the LEDs that will not yellow over time
- Inner satin lens and a choice of outer polycarbonate lenses
- Lumen packages from 2,100 to 8,230 lumens
- CRI ≥ 80
- Efficacy up to 132 lumens per watt
- L70 > 50,000 hours

Electrical:

- Universal 120/277VAC, 50/60Hz
- 0-10V Dimming driver
- Power Factor ≥ 0.90
- 347-480VAC option (Option: HVS)
- Power Switchable, switch located outside driver box behind the unit
 - 1' x 4' switchable between 20W-30W-40W
 - 2' x 2' switchable between 20W-25W-30W-35W-40W
 - 2' x 4' switchable between 30W-40W-50W-60W-72W

Installation:

- Unit simply lifts through grid ceiling and rests on T-bars
- Easy installation in new construction or retrofit
- Standard recessed mounting in most 1' x 4', 2' x 2' or 2' x 4' grid ceilings
- Easily set wattage and CCT during installation using the adjustment switches located outside the driver box

Options:

- Integral Battery Backup provides 8-watt (Option: BB1) or 14-watt (Option: BB2) emergency for continued illumination during power loss
- IP65 (Option: IP65) or IP66 (Option: IP66) rated sealed construction suitable for wet locations and high-pressure wash-down.
- High Abuse (IK10) includes security clips and additional polycarbonate lens for maximum protection (Option: HA1 or HA2)
- 6' Line cord, 2 conductor, 2 dimming leads for 120-277VAC applications (Option: LC6)

Warranty:

- Five Year Warranty (Terms and Conditions Apply)

Model: _____ Date: _____
Accessories: _____
Job Name: _____ Type: _____



APPLICATIONS

- Pharmaceutical
- Restrooms
- Cleanrooms
- Laboratories
- Research and Development
- Food Processing
- Healthcare Pharmacies



OPTIONAL

Specs at a Glance			
Model	LCB-14	LCB-22	LCB-24
Wattage (W)*	20W-30W-40W (Switchable)	20W-25W-30W-35W-40W (Switchable)	30W-40W-50W-60W-72W (Switchable)
Lumens (lm)	2,400 - 4,000	2,100 - 4,305	3,700 - 8,230
Efficacy (LPW)	Up to 132		
CCT (K)	3000K-4000K-5000K (Switchable)	3000K-3500K-4000K-5000K-6000K (Switchable)	
CRI	≥80		
Input Voltage	120/277VAC, 50/60Hz		
Operating Temp	-10°C to 40°C (14°F to 104°F)		
Certifications	cETL Listed, Optional Wet Location (IP65 or IP66)		
Warranty	5 Years		

* Nominal Wattage, tested at 4000K CCT. See performance table for details.

Note: Environment and application will affect actual performance. Typical values and 25°C (77°F) used for testing. Specifications subject to change without notice.

Testing & Compliance:

- cETL Listed
- Optional Wet Location IP65 (Option: IP65) or IP66 (Options: IP66)
- Optional IK10 rating with High Abuse options (HA1 or HA2)
- Biosafety labs rated 1, 2, 3 and 4
- ISO Class 3
- Positive Pressure Cleanroom ISO Class 5-9
- Buy American Act compliant
- Build America, Buy America Act compliant
- Operating temperatures: -10°C to 40°C (14°F to 104°F)

ORDERING INFORMATION (Example: LCB-14-CP1-VS-SMC-BB1)

Model	Size	Lens	Voltage	Security & Frame Kits (Field Installed)	Options (Factory Installed)
LCB	14 = 1' x 4'	CP1 = .125 Clear Polycarbonate	VS = 120/277VAC	BLANK = None	BB1 ⁴ = 8 Watt Battery Backup
	22 = 2' x 2'	CP2 = .187 Clear Polycarbonate	HVS = 347-480VAC	SMC ¹ = Security Mounting Clips	BB2 ⁴ = 14 Watt Battery Backup
	24 = 2' x 4'	CP3 = .250 Clear Polycarbonate		F14 ² = 1' x 4' Drywall framing kit	IP65 ⁵ = Installation Brackets for IP65
		CP4 = .375 Clear Polycarbonate		F22 ² = 2' x 2' Drywall framing kit	IP66 ⁵ = Installation Brackets for IP66
				F24 ² = 2' x 4' Drywall framing kit	HA1 ⁶ = High-Abuse .250 Polycarbonate Lens
				FV14 ³ = 1' x 4' Vandal Resistant Drywall	HA2 ⁷ = High-Abuse .375 Polycarbonate Lens
				FV22 ³ = 2' x 2' Vandal Resistant Drywall	LC6 = 6' Line cord, blunt end
				FV24 ³ = 2' x 4' Vandal Resistant Drywall	

Notes:
¹ Secures fixture to grid. Not compatible with CP4, IP65, IP66, HA1 and HA2

² Gasketed drywall framing kit. Ships with gasket to be applied in field. Used to install in hard ceiling applications, to be installed in a hard ceiling, a frame kit is required.

³ Vandal Resistant gasketed drywall framing kit. Ships with gasket to be applied in field. IP66 standard.

⁴ Not available with HVS

⁵ Brackets supplied to attach luminaire to the grid; which ensures a seal between luminaire and grid. Vandal resistant options ships with brackets and is IP65 and IP66 compliant.

⁶ Includes security clips and .250 Clear Polycarbonate Lens

⁷ Includes security clips and .375 Clear Polycarbonate Lens

PERFORMANCE DATA

Model	Wattage	CCT	Lumens	LPW	CRI
LCB-14	20W	3000K	2400	120	≥80
LCB-14	20W	4000K	2512	126	≥80
LCB-14	20W	5000K	2600	130	≥80
LCB-14	30W	3000K	3200	107	≥80
LCB-14	30W	4000K	3330	111	≥80
LCB-14	30W	5000K	3400	113	≥80
LCB-14	40W	3000K	3850	96	≥80
LCB-14	40W	4000K	3920	98	≥80
LCB-14	40W	5000K	4000	100	≥80
LCB-22	20W	3000K	2100	105	≥80
LCB-22	20W	3500K	2140	107	≥80
LCB-22	20W	4000K	2171	109	≥80
LCB-22	20W	5000K	2200	110	≥80
LCB-22	20W	6000K	2150	108	≥80
LCB-22	25W	3000K	2559	102	≥80
LCB-22	25W	3500K	2602	104	≥80
LCB-22	25W	4000K	2640	106	≥80
LCB-22	25W	5000K	2750	110	≥80
LCB-22	25W	6000K	2630	105	≥80
LCB-22	30W	3000K	3175	106	≥80
LCB-22	30W	3500K	3200	107	≥80
LCB-22	30W	4000K	3250	108	≥80
LCB-22	30W	5000K	3300	110	≥80
LCB-22	30W	6000K	3200	107	≥80
LCB-22	35W	3000K	3702	106	≥80
LCB-22	35W	3500K	3789	108	≥80
LCB-22	35W	4000K	3810	109	≥80
LCB-22	35W	5000K	3850	110	≥80
LCB-22	35W	6000K	3680	105	≥80
LCB-22	40W	3000K	4255	106	≥80
LCB-22	40W	3500K	4305	108	≥80

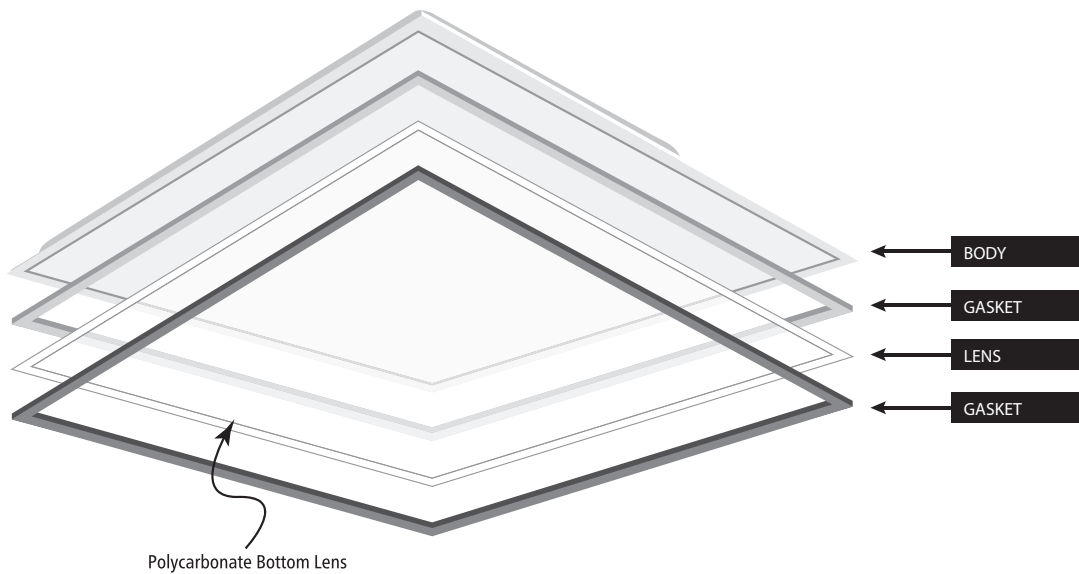
Specifications are subject to change without notice.
Installation must be performed in accordance with
Barron Lighting Group installation instructions.

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PERFORMANCE DATA (continued)

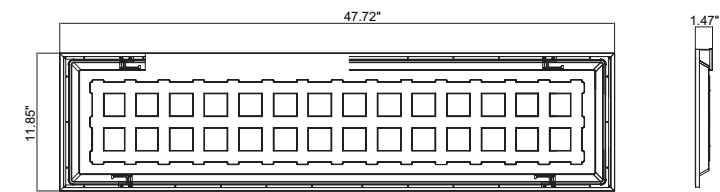
Model	Wattage	CCT	Lumens	LPW	CRI
LCB-22	40W	4000K	4360	109	≥80
LCB-22	40W	5000K	4400	110	≥80
LCB-22	40W	6000K	4305	108	≥80
LCB-24	30W	3000K	3700	123	≥80
LCB-24	30W	3500K	3890	130	≥80
LCB-24	30W	4000K	3939	131	≥80
LCB-24	30W	5000K	3900	130	≥80
LCB-24	30W	6000K	3946	132	≥80
LCB-24	40W	3000K	4824	121	≥80
LCB-24	40W	3500K	5065	127	≥80
LCB-24	40W	4000K	5135	128	≥80
LCB-24	40W	5000K	5128	128	≥80
LCB-24	40W	6000K	5084	127	≥80
LCB-24	50W	3000K	5814	116	≥80
LCB-24	50W	3500K	6143	123	≥80
LCB-24	50W	4000K	6235	125	≥80
LCB-24	50W	5000K	6228	125	≥80
LCB-24	50W	6000K	6117	122	≥80
LCB-24	60W	3000K	6743	112	≥80
LCB-24	60W	3500K	7178	120	≥80
LCB-24	60W	4000K	7279	121	≥80
LCB-24	60W	5000K	7250	121	≥80
LCB-24	60W	6000K	7063	118	≥80
LCB-24	72W	3000K	7780	108	≥80
LCB-24	72W	3500K	8253	115	≥80
LCB-24	72W	4000K	8415	117	≥80
LCB-24	72W	5000K	8300	115	≥80
LCB-24	72W	6000K	8230	114	≥80

HIGH-ABUSE OPTION CONFIGURATION (HA1 or HA2)

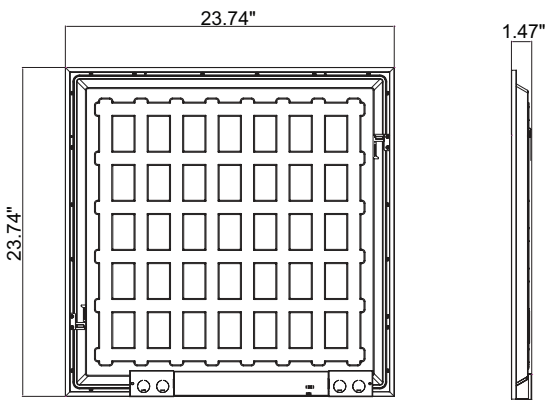


DIMENSIONS

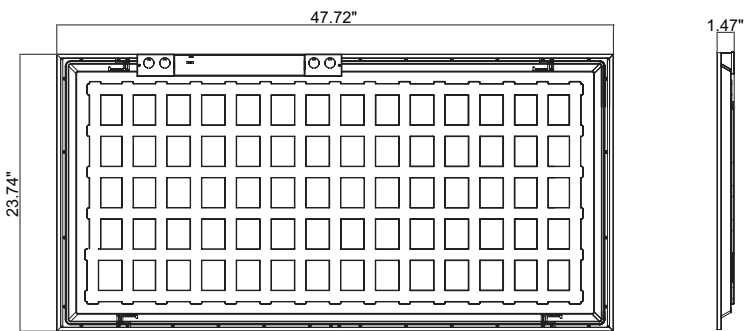
LCB-14



LCB-22

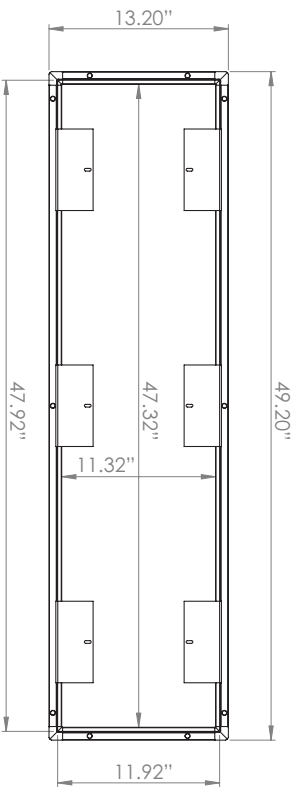


LCB-24

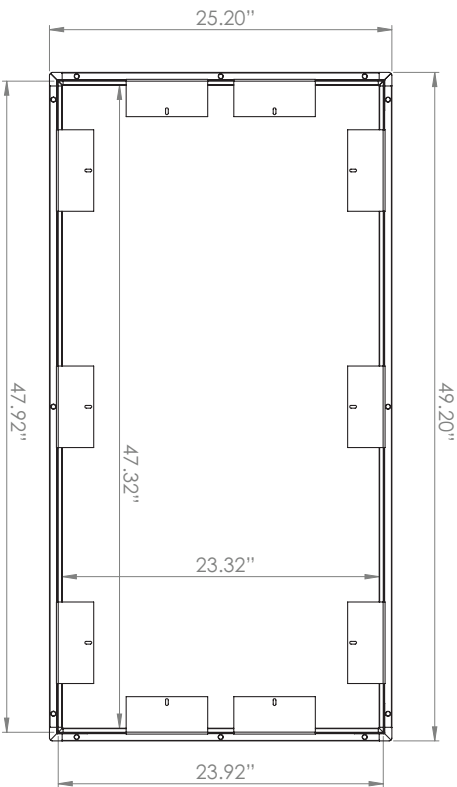


SECURITY AND FRAME KITS

F14 & FV14



F24 & FV24



F22 & FV22

