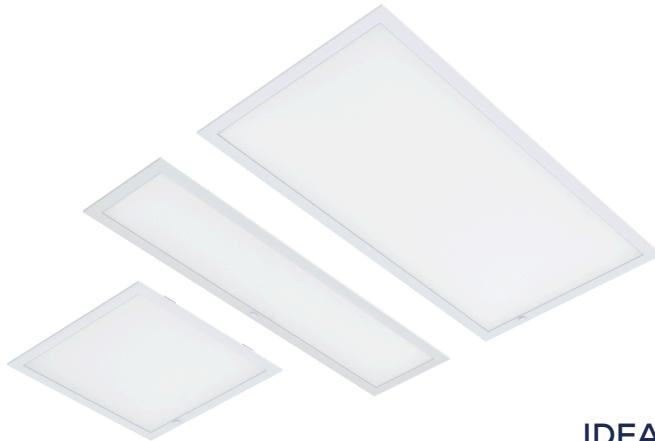




**CPLH-LED**  
Indoor Ceiling Light



The RAB DESIGN CPLH is a ceiling panel light that combines high performance, intelligent design, and exceptional value. With advanced features like sensor-ready panels – including PIR sensor, high efficacy, and field-adjustable switches, it's engineered to deliver unmatched efficiency and energy savings and versatility at a fair price.

### IDEAL APPLICATIONS

Commercial Spaces

Offices

Convenience Stores

Retail Spaces

Schools

### SPECIFICATIONS

	CPLH14	CPLH22	CPLH24	CERTIFICATIONS			
<b>PERFORMANCE</b>							
Light Output	5800/4200/2800 lm	5800/4200/2800 lm	7100/5600/4200 lm	cULus Listed for Canada and USA, per UL 1598, CSA C22.2 No. 250.0, DLC Premium			
Efficacy	145 lm/W	145 lm/W	142 lm/W				
CCT	CCT Selectable - 3500K/4000K/5000K						
Beam Angle	110°						
LED Lifetime (L80)	>100,000 Hours						
CRI	83	83	83				
<b>ELECTRICAL</b>							
Wattage	40/30/20W	40/30/20W	50/40/30W				
Voltage	120-347 V						
Surge Protection	2kV (Built-in Driver) as per IEC/EN61000-4-5						
Power Factor	≥0.9						
THD	≤20%						
Dimming	0-10V (5-100% Dimming, Dim to Off)						
<b>AMBIENT OPERATING TEMPERATURE</b>							
Fixture	-20°C to 40°C (-4°F to 104°F)						
<b>DEFAULT SETTINGS</b>							
CCT	4000K						
Wattage	40W	40W	50W				
<b>MOUNTING</b>							
Recessed in T-bar grid ceiling with integral earthquake clips Surface mount, Suspension mount, Recessed drywall kit sold separately							
<b>FIELD INSTALLED CONTROLS</b>							
Bluetooth PIR Motion Sensor PIR Motion Sensor (RC-500 remote needed to operate sensor)							
<b>CONSTRUCTION</b>							
Housing	Steel housing + Aluminum Frame						
Lens	PMMA Lens						
Finish	White						
<b>WEIGHT (Fixture Only)</b>							
CPLH14	4.40 lbs						
CPLH22	4.40 lbs						
CPLH24	8.20 lbs						
<b>MAX AMPERAGE DRAW (A)</b>							
	120V	208V	240V	277V	347V		
CPLH14	0.350	0.200	0.170	0.150	0.120		
CPLH22	0.350	0.200	0.170	0.150	0.120		
CPLH24	0.440	0.260	0.220	0.190	0.150		
<b>LUMEN MAINTENANCE</b>							
<b>L90</b>		<b>L80</b>		<b>L70</b>			
>60000 hrs		>100000 hrs		>100000 hrs			
Note: 1. Electrical and Light Performance data is based on LM79 test report at 4000K and 120V. 2. Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.							

**CONTROLLED**



## ORDERING GUIDE



Fixture	Wattage	Voltage	Colour Temp.	Dimming	Controls	Options
CPLH14	LED40A20	H - 120-347V	VK - CCT Selectable (3500K/ 4000K/ 5000K)	DIM - 0-10V Dimming	SR - Sensor Receptacle	Blank - No Battery Backup
CPLH22	LED40A20					BBK8 - Battery Backup 8W
CPLH24	LED50A30					

### STOCK CODE

033714	CPLH14-LED40A20-H-VK-DIM-SR
033722	CPLH22-LED40A20-H-VK-DIM-SR
033724	CPLH24-LED50A30-H-VK-DIM-SR

### ACCESSORIES SOLD SEPARATELY

083786	LOWBAY RC PIR MOTION/DLH PLUG-IN SENSOR		072203	SURFACE MOUNT KIT F/2x2 BACKLIT CPL,ECPL,CPLH-3" H	
083787	LOWBAY BLUETOOTH PIR MOTION/DLH PLUG-IN SENSOR		072403	SURFACE MOUNT KIT F/2x4 BACKLIT CPL,ECPL,CPLH-3" H	
083789	CONTROLLED RC-500 MOTION SENSOR REMOTE CONTROL		071403	SURFACE MOUNT KIT F/1x4 BACKLIT CPL,ECPL,CPLH-3" H	
084215	BLUETOOTH 3-KEY AC LINE VOLTAGE WALL SWITCH 120-277VAC, 3-KEYS(ON/OFF, DIM+, DIM-)		072204	DRY WALL KIT F/1X4 BACKLIT ECPL/CPLH	
084633	BLUETOOTH 5-KEY BATTERY POWERED WIRELESS WALL SWITCH & PLATE <sup>1</sup>		072205	DRY WALL KIT F/2X2 BACKLIT ECPL/CPLH	
070016	WIRING COMPARTMENT- 8.88" L X 2.44" W X 1.24" H		072206	DRY WALL KIT F/2X4 BACKLIT ECPL/CPLH	
070002	2 CABLE SUSPENSION MOUNT KIT F/CPL, CPLH				

<sup>1</sup> Wireless Bluetooth module can also be used as portable remote control.

Motion Sensor Specifications	
<b>Sensor Type</b>	PIR Sensor/Bluetooth PIR Sensor
<b>Microwave Frequency</b>	2.4GHz +/- 75MHz
<b>Operating Voltage</b>	12VDC
<b>Input Current</b>	25mA Max.
<b>Operating Current</b>	10mA
<b>Output Power</b>	0.1W
<b>Output Current</b>	10mA Max.
<b>Maximum Detection Range</b>	40 ft Max.
<b>Maximum Mounting Height</b>	18 ft Max.
<b>Bluetooth Version**</b>	4.2
<b>Bluetooth Transmit**</b>	100 ft Max.
<b>Ambient Operating Temperature</b>	-30°C to 55°C (-22°F TO 131°F)
<b>Indoor/Outdoor Use</b>	Indoor use only
<b>IP Rating</b>	IP20
<b>Installation</b>	Field Installed Quick Plug-and-play

### Motion Sensor Programming

<b>Programming Tool</b>	RC-500 Remote Control
<b>Brightness</b>	50%/75%/100%*
<b>Sensitivity</b>	Sensitivity of surrounding motion OFF/LOW/HIGH* OFF indicates sensor mode is disabled and it will act as photocell only
<b>Hold Time</b>	After no motion for [HOLD TIME], the fixture dims from [TRIM-LEVEL] to [STANDBY DIM]. 30sec/5min*/15min/30min
<b>Standby Dim</b>	After no motion for [STANDBY TIME] after [HOLD TIME] has passed, the fixture turns off. 10sec/5min/15min/30min/60min*/∞ Select ∞ if the fixture should not turn off and should stay at [STANDBY DIM] level.
<b>Standby Time</b>	Fixture dims to this level after [HOLD TIME] has passed. 0%/10%/30%*/50%

#### Notes:

\* refers to the default settings

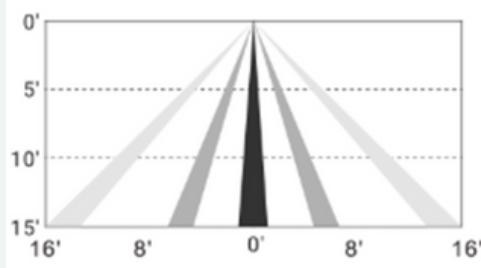
\*\* Applies to Bluetooth sensor only

Default Setting: Motion Sensor: ON, Occupancy/Vacancy Mode:Occupancy, High Trim: 100%, Sensitivity: High, Hold time: 20 min, Standby dim: 50%, Standby time: 1 min, Photocell: OFF, Linkage: OFF, Linkage level: 100%

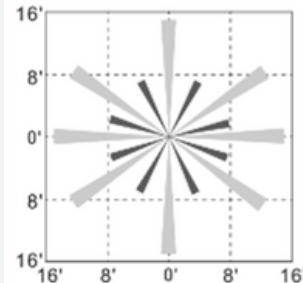
For instructions on programming the motion sensor remote control, please see the Installation Instructions.

### Motion Detection Range

#### Side View (at 15ft Height)



#### Top View (at 15ft Height)



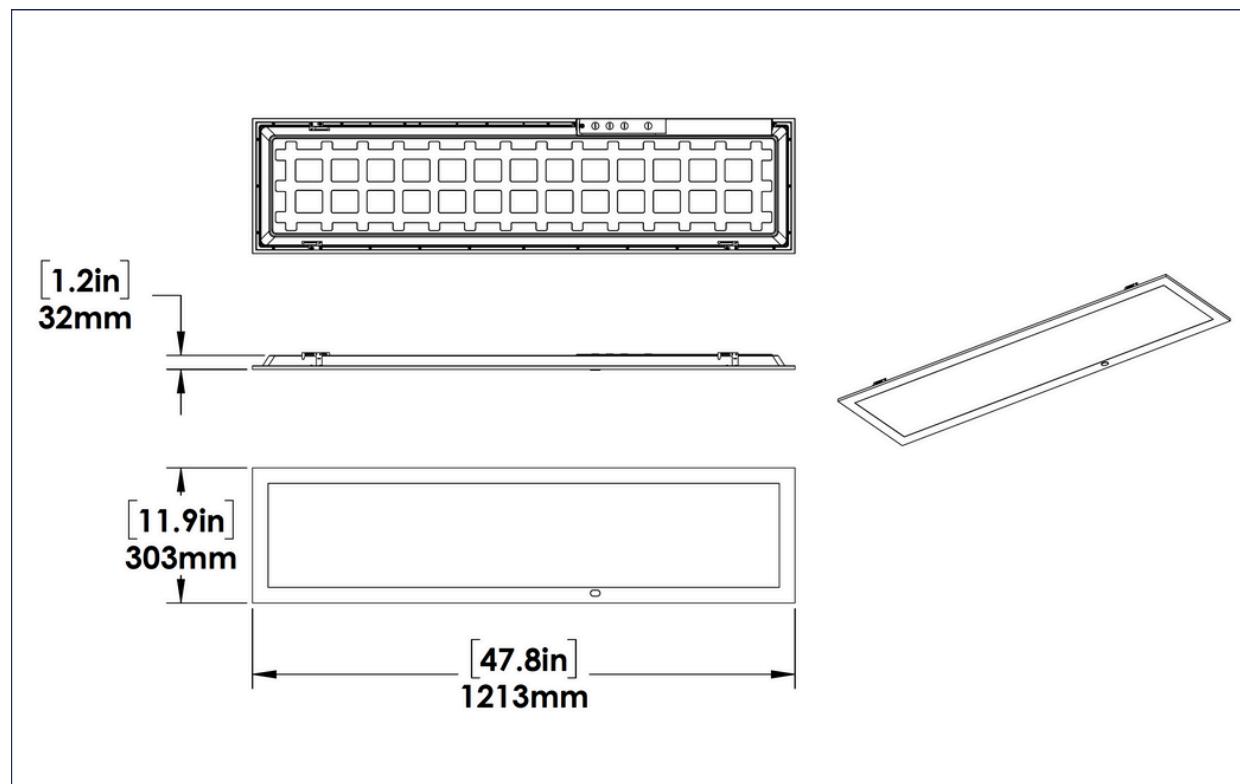
Battery Backup Specifications			
	CPLH14	CPLH22	CPLH24
<b>Rated Input Voltage</b>	100-347V, 100-277V AC, 50/60Hz		
<b>Input Current</b>	80mA max		
<b>Input Power</b>	5W max		
<b>Output Current Max (LED Load Input)</b>	AC 6A Max		
<b>Output Voltage Range</b>	DC15-50V, 55V max		
<b>Output Wattage (Emergency mode)</b>	8W, constant power		
<b>Battery Pack Voltage/Capacity</b>	Li-ion 7.4V 2.6Ah 19.24Wh 2S1P		
<b>Recharge Current</b>	0-250mA		
<b>Recharge Time</b>	24 hours		
<b>Discharge Time</b>	90 minutes		
<b>Max. Casing Temperature</b>	70°C		
<b>Ambient Operating Temperature</b>	0-50°C		
<b>Service Life<sup>1</sup></b>	50 000 hours		
<b>RFI/EMI</b>	FCC		

<sup>1</sup> When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.

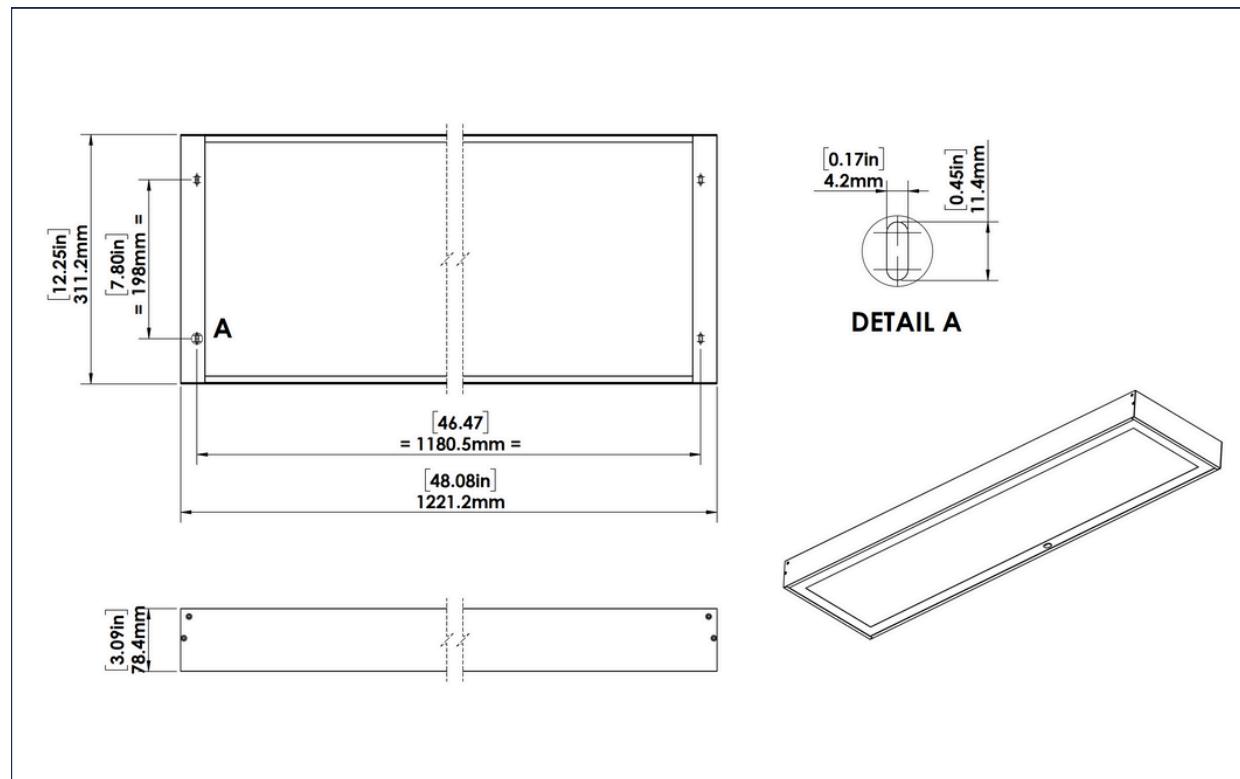
**Notes:**

Lumen output with emergency battery backup can be calculated by multiplying the output power with the efficacy of the fixture. In emergency mode, the CCT will be fixed at 3000K. Once power is restored, the CCT will revert to the setting configured on the CCT select switch.

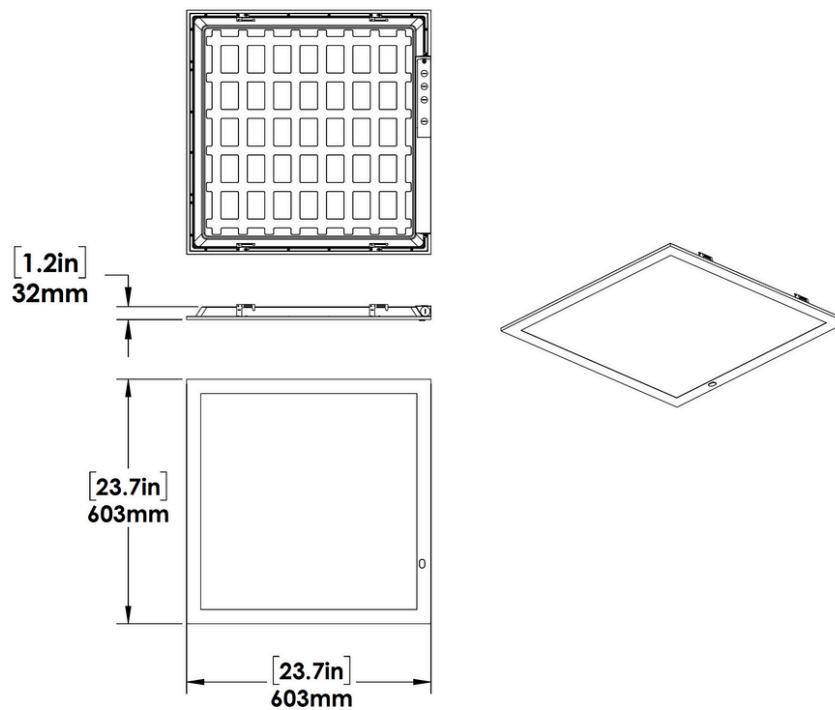
## CPLH14 FIXTURE



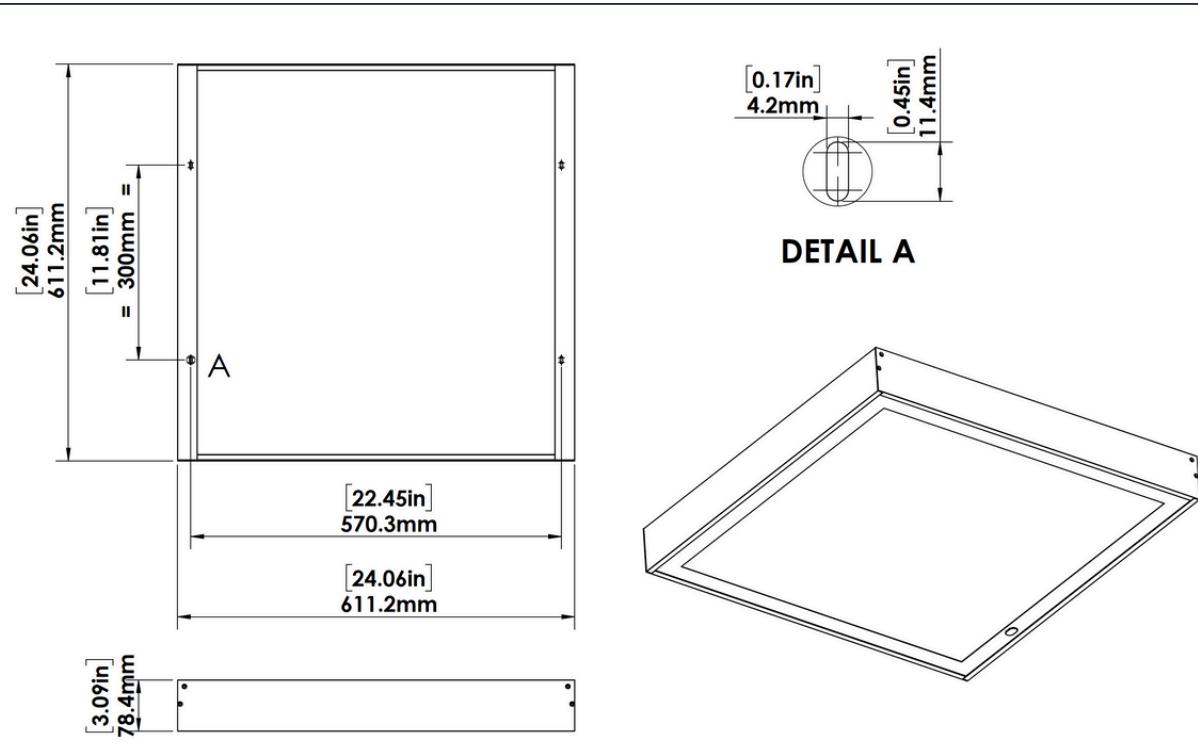
## 1X4 SURFACE MOUNT



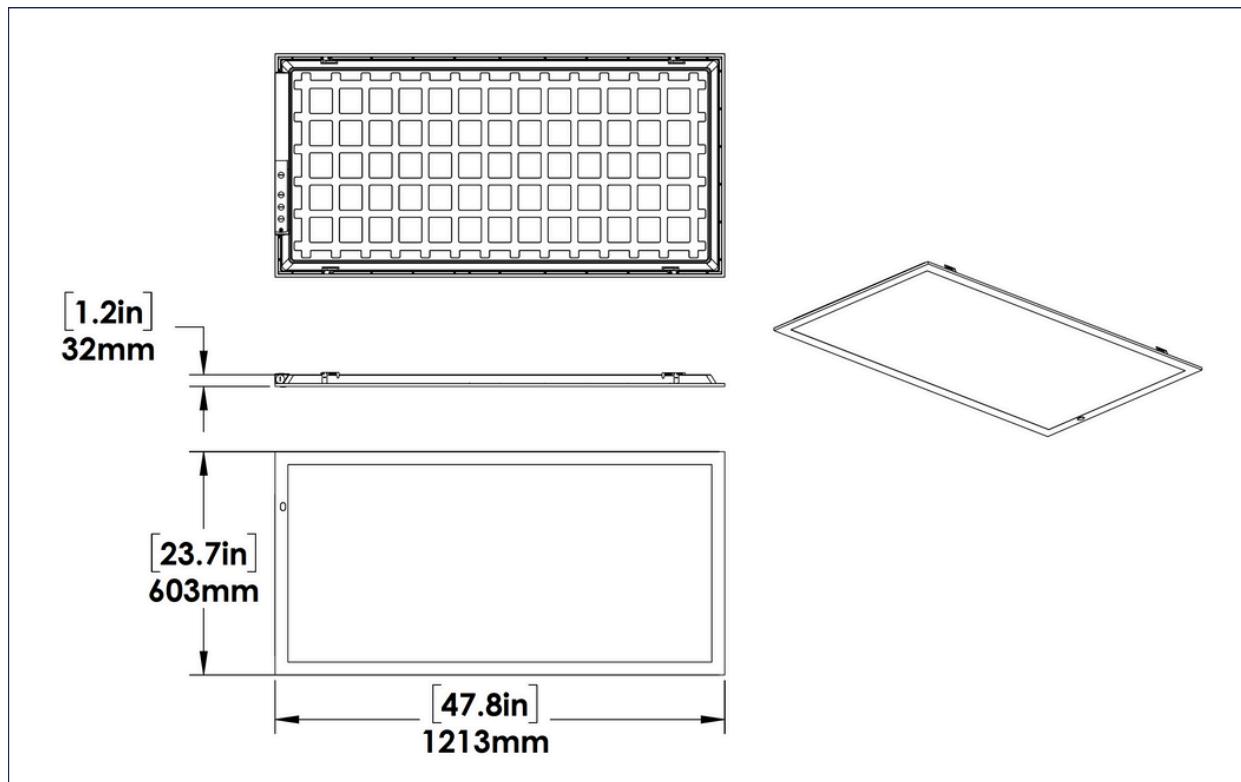
## CPLH22 FIXTURE



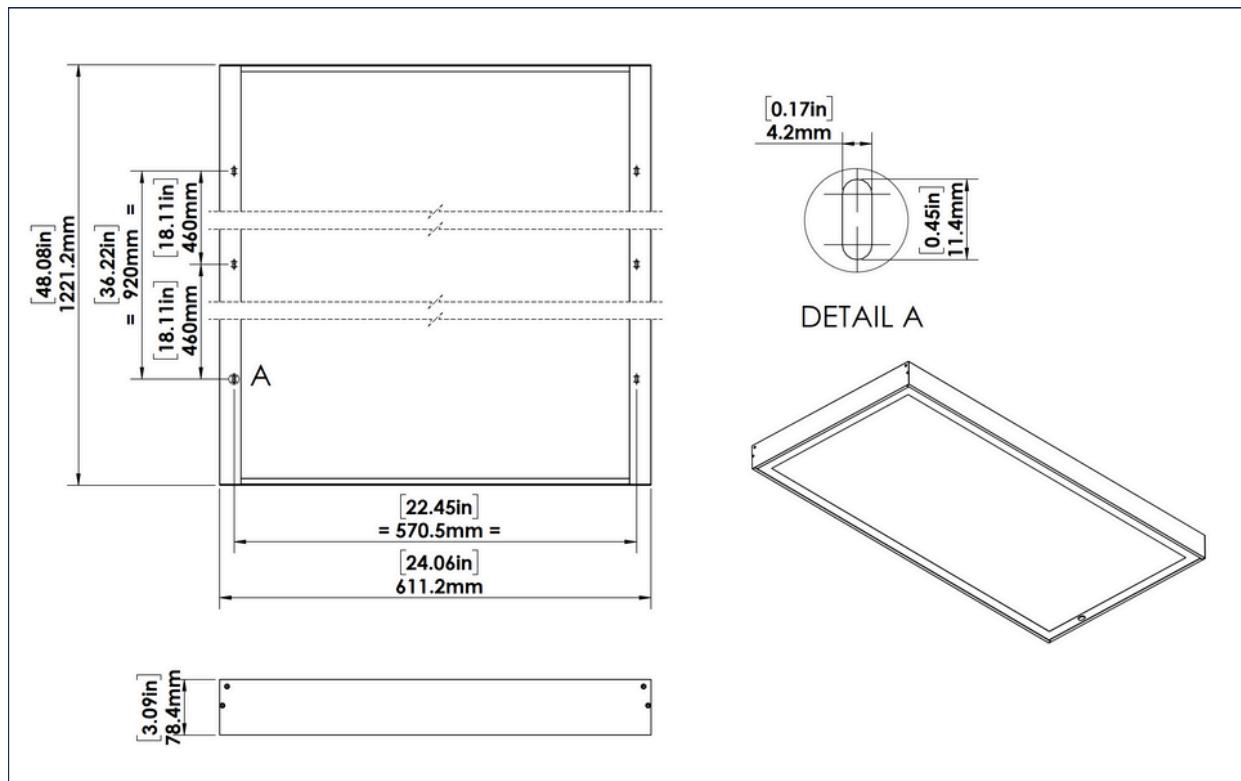
## 2X2 SURFACE MOUNT



## CPLH24 FIXTURE

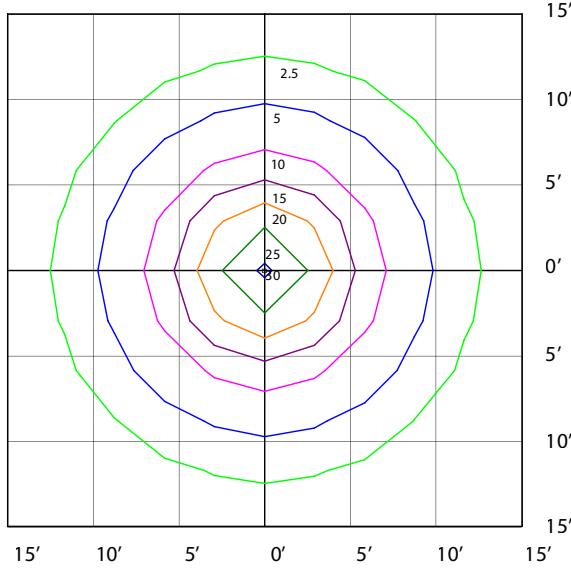


## 2X4 SURFACE MOUNT



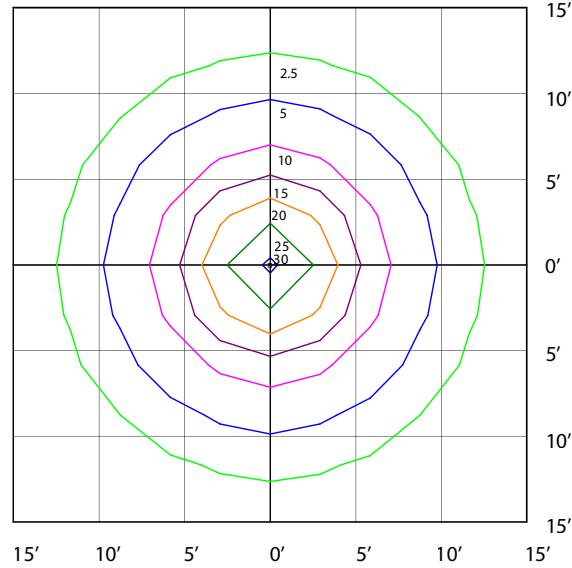
**CPLH14-LED40A20-H-VK-DIM-SR-(40W 120V 4000K)**  
MOUNTED AT 8 FEET

Total Lumens = 5809.2      Mounting Height = 8 Ft      Maximum Calculated Value = 31.04 Fc



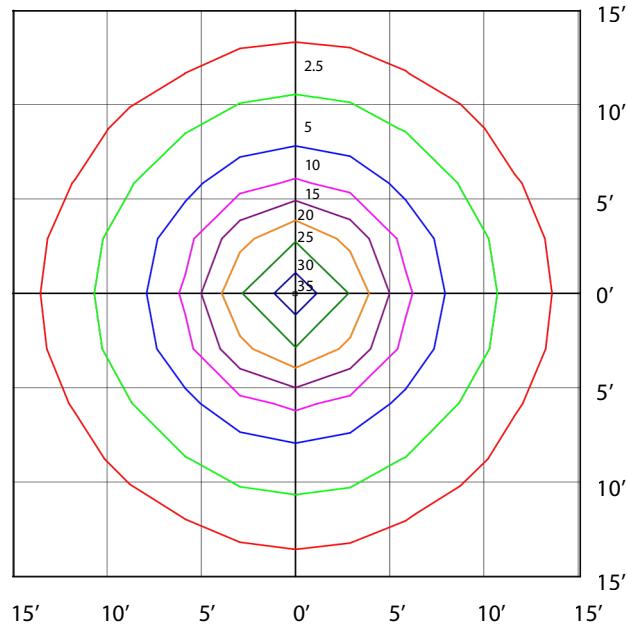
**CPLH22-LED40A20-H-VK-DIM-SR-(40W 120V 4000K)**  
MOUNTED AT 8 FEET

Total Lumens = 5807.2      Mounting Height = 8 Ft      Maximum Calculated Value = 31.06 Fc



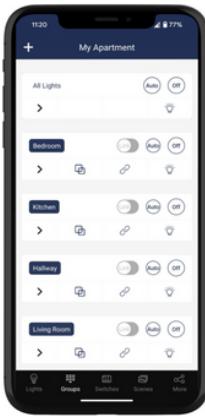
**CPLH24-LED50A30-H-VK-DIM-SR-(50W 120V 4000K)**  
MOUNTED AT 8 FEET

Total Lumens = 7157.4      Mounting Height = 8 Ft      Maximum Calculated Value = 38.29 Fc



# CONTROLLED

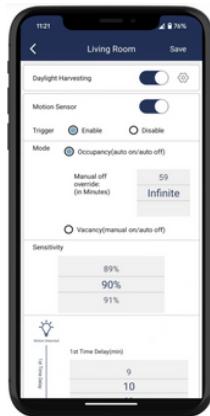
ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.



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Create Zones, Groups and Group linkages.



**Dimming Lights:**  
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Custom sensor settings for groups or individual lights.



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