

# PBLV

## LED BACKLIT PANEL

### 5 CCT AND 5 POWER SELECTABLE

AimLite's PBLV LED panel lights utilize next-generation back-lit technology, ensuring high performance, superior uniformity, and reduced glare. With the 5 colour temperature and 5 power selectable feature, PBLV series is a cost-effective solution for reducing stocking inventory. The sleek trim design provides a modern frameless look in recessed ceilings, makes it an ideal replacement for traditional fluorescent fixtures in offices, schools, and commercial buildings.



## FEATURES & SPECIFICATIONS

### CONSTRUCTION

#### Physical Characteristics

- White steel housing
- PMMA LED lens
- CCT and Power Select switches are placed on the driver box

#### Mounting

- Recessed, suspended, surface

### PERFORMANCE DATA

- Available in 3 000/3 500/4 000/5 000/6 500 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 174 000 hours to L70
- 0-10 V dimming standard (dimming range: 5% -100%)
- 1 kV surge protection
- Operating temperature: -20 °C to 35 °C [-4 °F to 95 °F]

### COMPLIANCES

- cULus listed for damp locations
- DLC Standard
- IC rated
- Meets requirements of ICES-005 issue 5 for Class B products
- Conforms to NSF and certified to be used in food handling applications
- Conforms to:
  - CAN/ULC-S102.3:2018(R2023) Standard method of fire test of light diffusers and lenses
  - CAN/ULC-S102.2-10 Standard method of test for surface burning characteristics of flooring, floor coverings, and miscellaneous materials and assemblies

| OVERVIEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                       |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------|-------------------------------|
| LIGHT SOURCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LED                                  | EFFICACY (LM/W)       | 111 - 128                     |
| WATTS (W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20/25/30/35/40 W<br>30/35/40/45/50 W | COLOR TEMPERATURE (K) | 3 000/3 500/4 000/5 000/6 500 |
| LUMEN OUTPUT (LM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 191 - 5 612                        | CRI                   | >80                           |
| <div>  <div>  CCT<sup>+</sup> 5CCT SELECTABLE           </div> <div>  W<sup>+</sup> POWER SELECTABLE           </div> <div>  LED           </div> <div>  QUICKSHIP           </div> <div>  DAMP LOCATION           </div> <div>  DIMMABLE           </div> <div>  IC IC RATED           </div> <div>  ICES 005           </div> <div>  UL CERTIFIED           </div> <div>  FCC           </div> <div>  NSF           </div> <div>  DLC LISTED           </div> </div> |                                      |                       |                               |

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/search](http://www.designlights.org/search).

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

QUICK SHIP  
ORDERING GUIDE



| PART NUMBER       | DLC UNIQUE ID | WATTS<br>[W]   | VOLTS<br>[V AC] | COLOR TEMP.<br>[K] <sup>1</sup>   | LUMEN OUTPUT<br>[LM] <sup>2,3</sup> | EFFICACY<br>[LM/W] | CRI | LIFE L70<br>[HRS] <sup>4</sup> | TESTED HOURS LM-80<br>[HRS] <sup>4</sup> | DIM-MING | PF  | THD<br>[%] | MASTER CASE QTY |
|-------------------|---------------|----------------|-----------------|-----------------------------------|-------------------------------------|--------------------|-----|--------------------------------|------------------------------------------|----------|-----|------------|-----------------|
| 1x4               |               |                |                 |                                   |                                     |                    |     |                                |                                          |          |     |            |                 |
| PBLV-1LPS40-32/5C | S-Z68QW5      | 20/25/30/35/40 | 120-347         | 3 000/3 500/4 000/<br>5 000/6 500 | 2 288/2 955/3 585/<br>4 025/4 477   | 110                | ≥80 | 174 000                        | 10 000                                   | Yes      | 0.9 | <20        | 2               |
|                   |               |                |                 |                                   |                                     |                    |     |                                |                                          |          |     |            |                 |
| PBLV-2LPS40-32/5C | S-MNSRH7      | 20/25/30/35/40 | 120-347         | 3 000/3 500/4 000/<br>5 000/6 500 | 2 226/2 882/3 488/<br>3 938/4 397   | 110                | ≥80 | 174 000                        | 10 000                                   | Yes      | 0.9 | <20        | 2               |
|                   |               |                |                 |                                   |                                     |                    |     |                                |                                          |          |     |            |                 |
| PBLV-4LPS50-32/5C | S-GBF3P7      | 30/35/40/45/50 | 120-347         | 3 000/3 500/4 000/<br>5 000/6 500 | 3 639/4 074/4 494/<br>5 130/5 526   | 110                | ≥80 | 174 000                        | 10 000                                   | Yes      | 0.9 | <20        | 2               |

<sup>1</sup> Typical color temperature range: +/- 5 %.  
<sup>2</sup> Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.  
<sup>3</sup> Lumen values are based on 4 000 K default programming.  
Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.  
<sup>4</sup> Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.  
Standard packaging is 2 panels per master case without individual box.

LUMEN SPECIFICATION TABLE

| MODEL NUMBER      | WATTS<br>[W] | 3 000 K              |                    | 3 500 K              |                    | 4 000 K              |                    | 5 000 K              |                    | 6 500 K              |                    |
|-------------------|--------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|
|                   |              | LUMEN OUTPUT<br>[LM] | EFFICACY<br>[LM/W] | LUMEN OUTPUT<br>[LM] | EFFICACY<br>[LM/W] | LUMEN OUTPUT<br>[LM] | EFFICACY<br>[LM/W] | LUMEN OUTPUT<br>[LM] | EFFICACY<br>[LM/W] | LUMEN OUTPUT<br>[LM] | EFFICACY<br>[LM/W] |
| PBLV-1LPS40-32/5C | 20           | 2 218                | 120                | 2 251                | 121                | 2 288                | 123                | 2 333                | 126                | 2 370                | 128                |
|                   | 25           | 2 866                | 118                | 2 908                | 120                | 2 955                | 122                | 3 011                | 124                | 3 058                | 126                |
|                   | 30           | 3 464                | 116                | 3 533                | 118                | 3 585                | 120                | 3 649                | 122                | 3 700                | 124                |
|                   | 35           | 3 911                | 114                | 3 974                | 116                | 4 025                | 117                | 4 101                | 120                | 4 155                | 122                |
|                   | 40           | 4 389                | 112                | 4 416                | 114                | 4 477                | 115                | 4 554                | 118                | 4 609                | 120                |
| PBLV-2LPS40-32/5C | 20           | 2 198                | 120                | 2 191                | 121                | 2 226                | 123                | 2 267                | 125                | 2 294                | 127                |
|                   | 25           | 2 862                | 119                | 2 836                | 119                | 2 882                | 121                | 2 931                | 123                | 2 965                | 125                |
|                   | 30           | 3 465                | 117                | 3 438                | 117                | 3 488                | 119                | 3 553                | 121                | 3 587                | 122                |
|                   | 35           | 3 906                | 114                | 3 893                | 115                | 3 938                | 117                | 4 010                | 119                | 4 045                | 120                |
|                   | 40           | 4 399                | 112                | 4 332                | 113                | 4 397                | 114                | 4 475                | 117                | 4 515                | 118                |
| PBLV-4LPS50-32/5C | 30           | 3 535                | 117                | 3 584                | 119                | 3 639                | 121                | 3 699                | 123                | 3 752                | 126                |
|                   | 35           | 3 961                | 116                | 4 013                | 118                | 4 074                | 120                | 4 145                | 122                | 4 200                | 124                |
|                   | 40           | 4 360                | 115                | 4 426                | 117                | 4 494                | 118                | 4 573                | 121                | 4 633                | 123                |
|                   | 45           | 4 975                | 112                | 5 115                | 116                | 5 130                | 116                | 5 216                | 118                | 5 277                | 120                |
|                   | 50           | 5 385                | 111                | 5 449                | 112                | 5 526                | 114                | 5 612                | 117                | 5 599                | 114                |

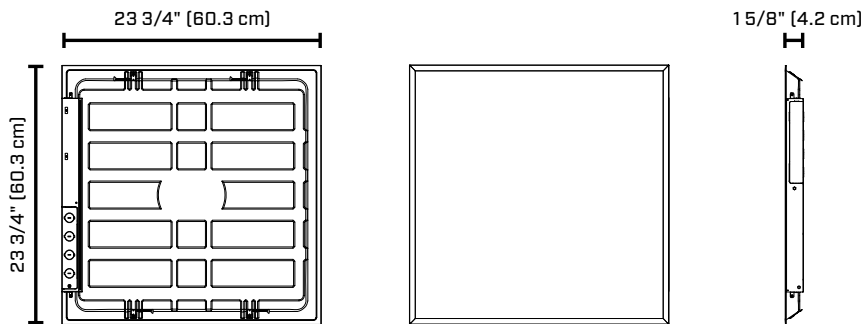
DEFAULT PROGRAMMING  
PBLV-1LPS40-32/5C : 40 W / 4 000 K  
PBLV-2LPS40-32/5C : 40 W / 4 000 K  
PBLV-4LPS50-32/5C : 50 W / 4 000 K

ACCESSORIES (ORDER SEPARATELY)

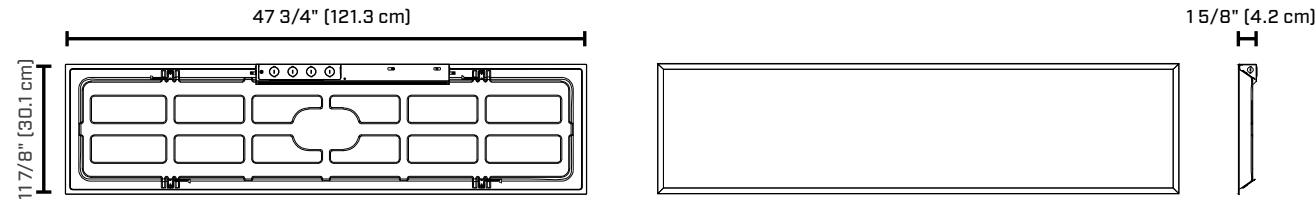
| PART NUMBER  | TYPE              | COMPATIBLE WITH |
|--------------|-------------------|-----------------|
| PF-DWK-1X4-A | DRYWALL KIT       | 1X4             |
| PF-DWK-2X2-A | DRYWALL KIT       | 2X2             |
| PF-DWK-2X4-A | DRYWALL KIT       | 2X4             |
| CAS973-1     | SURFACE MOUNT KIT | 1X4             |
| CAS973-2     | SURFACE MOUNT KIT | 2X2             |
| CAS973-3     | SURFACE MOUNT KIT | 2X4             |
| KIT-SUS-CH   | SUSPENSION KIT    | 1X4, 2X2, 2X4   |

DIMENSIONS AND WEIGHTS

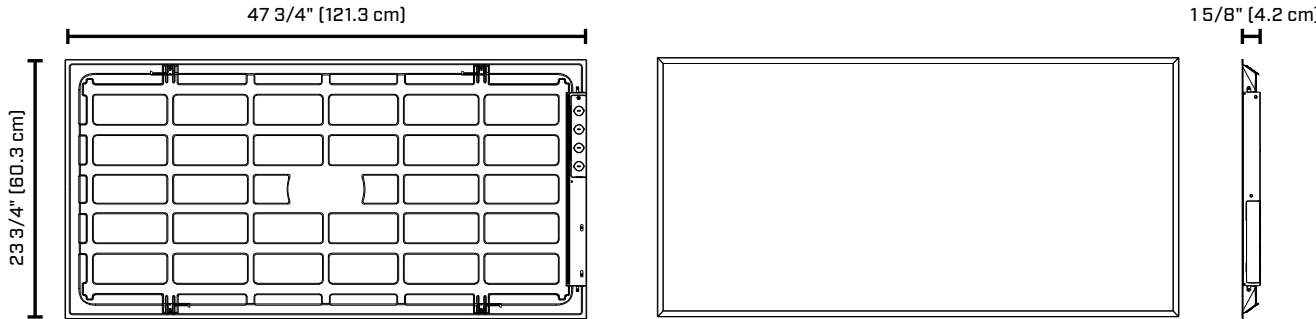
2'X2'



1'X4'



2'X4'

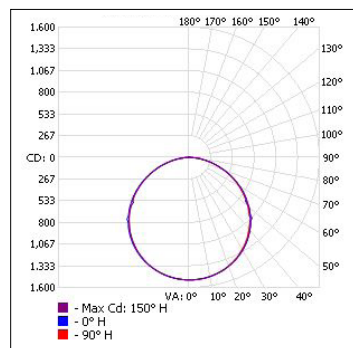


|                  | 1X4 | 2X2 | 2X4 |
|------------------|-----|-----|-----|
| NET WEIGHT (LBS) | 4.1 | 3.9 | 7.3 |

## PHOTOMETRIC DATA<sup>1</sup>

PBLV-1LPS40-32/5C • 40 W • 4 000 K • 4 518.1 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS  | % FIXTURE |
|--------|---------|-----------|
| 0-30   | 1 184.0 | 26.2      |
| 0-40   | 1 954.4 | 43.3      |
| 0-60   | 3 503.7 | 77.5      |
| 60-90  | 1 005.9 | 22.5      |
| 70-100 | 444.5   | 9.8       |
| 90-120 | 8.5     | 0.2       |
| 0-90   | 4 509.6 | 99.8      |
| 90-180 | 8.5     | 0.2       |
| 0-180  | 4 518.1 | 100       |

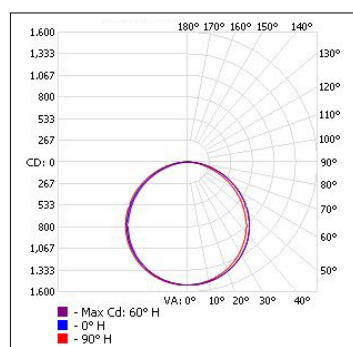
### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 2.0'           | 376.5 | 6.6'       | 6.4'  |
| 4.0'           | 94.1  | 13.1'      | 12.7' |
| 6.0'           | 41.8  | 19.7'      | 19.1' |
| 8.0'           | 23.5  | 26.2'      | 25.4' |
| 10.0'          | 15.1  | 32.8'      | 31.8' |

■ Vert. Spread: 117.2° ■ Hor. Spread: 115.6°

PBLV-2LPS40-32/5C • 40 W • 4 000 K • 4 550.8 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS  | % FIXTURE |
|--------|---------|-----------|
| 0-30   | 1 192.3 | 26.2      |
| 0-40   | 1 968.1 | 43.2      |
| 0-60   | 3 528.9 | 77.5      |
| 60-90  | 1 013.4 | 22.3      |
| 70-100 | 448.0   | 9.8       |
| 90-120 | 8.4     | 0.2       |
| 0-90   | 4 542.3 | 99.8      |
| 90-180 | 8.4     | 0.2       |
| 0-180  | 4 550.8 | 100       |

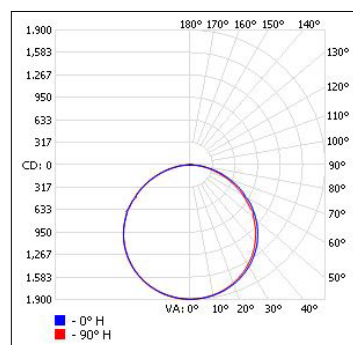
### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 2.0'           | 379.1 | 6.5'       | 6.3'  |
| 4.0'           | 94.8  | 13.0'      | 12.7' |
| 6.0'           | 42.1  | 19.5'      | 19.0' |
| 8.0'           | 23.7  | 26.0'      | 25.4' |
| 10.0'          | 15.2  | 32.5'      | 31.7' |

■ Vert. Spread: 116.8° ■ Hor. Spread: 115.6°

PBLV-4LPS50-32/5C • 50 W • 4 000 K • 5 706.4 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

| ZONE   | LUMENS  | % FIXTURE |
|--------|---------|-----------|
| 0-30   | 1 489.1 | 26.1      |
| 0-40   | 2 458.4 | 43.1      |
| 0-60   | 4 412.8 | 77.3      |
| 60-90  | 1 277.3 | 22.4      |
| 70-100 | 574.1   | 10.1      |
| 90-120 | 16.3    | 0.3       |
| 0-90   | 5 690.1 | 99.7      |
| 90-180 | 16.3    | 0.3       |
| 0-180  | 5 706.4 | 100       |

### ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC |       | BEAM WIDTH |       |
|----------------|-------|------------|-------|
| 2.0'           | 473.2 | 6.5'       | 6.3'  |
| 4.0'           | 118.3 | 13.0'      | 12.7' |
| 6.0'           | 52.6  | 19.5'      | 19.0' |
| 8.0'           | 29.6  | 26.0'      | 25.4' |
| 10.0'          | 18.9  | 32.5'      | 31.7' |

■ Vert. Spread: 116.8° ■ Hor. Spread: 115.5°

<sup>1</sup> Complete IES files available on our website.