

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 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
  CCT[±] 5CCT SELECTABLE  W[±] POWER SELECTABLE  LED  QUICKSHIP  DAMP LOCATION  DIMMABLE  IC IC RATED  ICES 005  UL CERTIFIED  FCC  NSF  DLC LISTED			

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.

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 [W]	VOLTS [V AC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ^{2,3}	EFFICACY [LM/W]	CRI	LIFE L70 [HRS] ⁴	TESTED HOURS LM-80 [HRS] ⁴	DIM-MING	PF	THD [%]	MASTER CASE QTY
1'x4'													
PBLV-1LPS40-32/5C	S-Z68QW5	20/25/30/35/40	120-347	3 000/3 500/4 000/ 5 000/6 500	2 288/2 955/3 585/ 4 025/4 477	110	≥80	174 000	10 000	Yes	0.9	<20	2
2'x2'													
PBLV-2LPS40-32/5C	S-MNSRH7	20/25/30/35/40	120-347	3 000/3 500/4 000/ 5 000/6 500	2 226/2 882/3 488/ 3 938/4 397	110	≥80	174 000	10 000	Yes	0.9	<20	2
2'x4'													
PBLV-4LPS50-32/5C	S-GBF3P7	30/35/40/45/50	120-347	3 000/3 500/4 000/ 5 000/6 500	3 639/4 074/4 494/ 5 130/5 526	110	≥80	174 000	10 000	Yes	0.9	<20	2

¹ Typical color temperature range: +/- 5 %.

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³ Lumen values are based on 4 000 K default programming.

Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

⁴ 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 [W]	3 000 K		3 500 K		4 000 K		5 000 K		6 500 K	
		LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [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

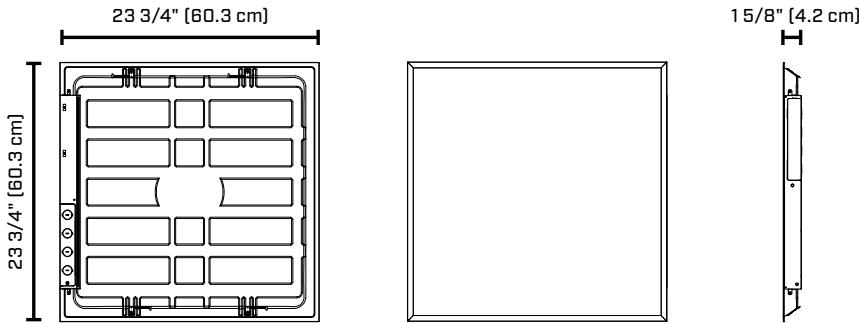
PBLV-4LPS50-32/5C : 50 W / 4 000 K

ACCESSORIES (ORDER SEPARATELY)

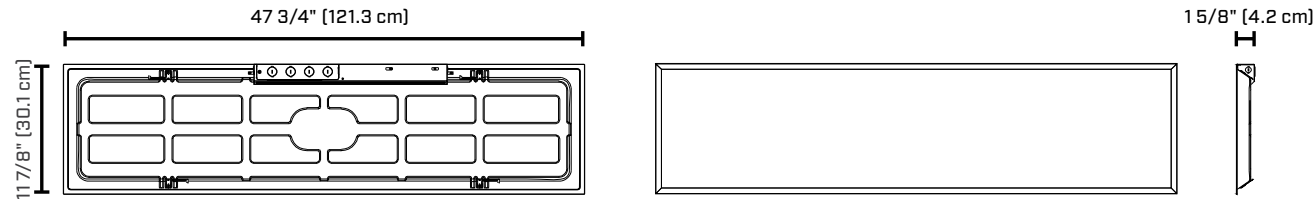
PART NUMBER	TYPE	COMPATIBLE WITH
PF-DWK-1X4-A	DRYWALL KIT	1'x4'
PF-DWK-2X2-A	DRYWALL KIT	2'x2'
PF-DWK-2X4-A	DRYWALL KIT	2'x4'
CAS973-1	SURFACE MOUNT KIT	1'x4'
CAS973-2	SURFACE MOUNT KIT	2'x2'
CAS973-3	SURFACE MOUNT KIT	2'x4'
KIT-SUS-CH	SUSPENSION KIT	1'x4', 2'x2', 2'x4'

DIMENSIONS AND WEIGHTS

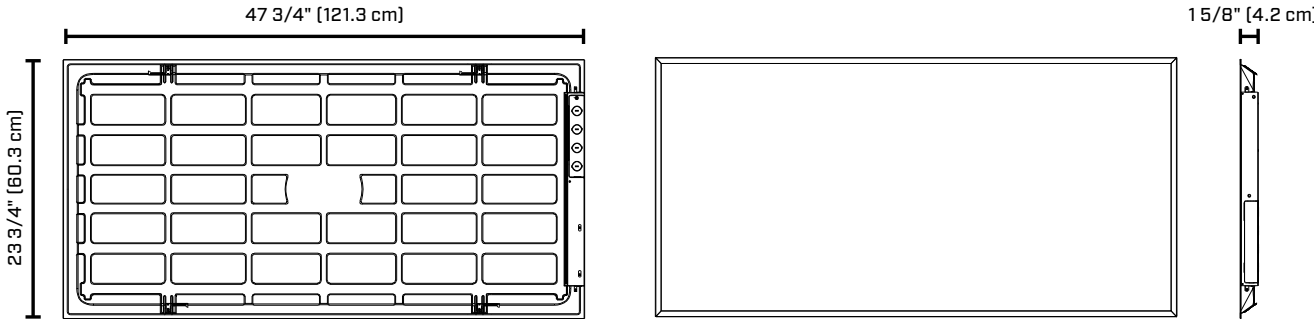
2'x2'



1'x4'



2'x4'

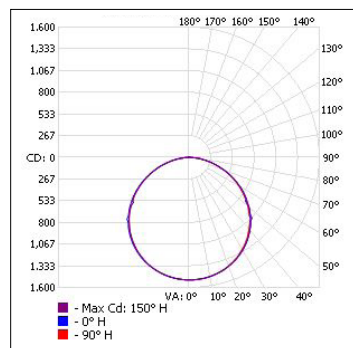


	1'x4'	2'x2'	2'x4'
NET WEIGHT (LBS)	4.1	3.9	7.3

PHOTOMETRIC DATA¹

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

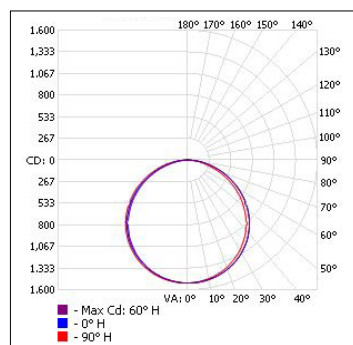
ILLUMINANCE AT A DISTANCE

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

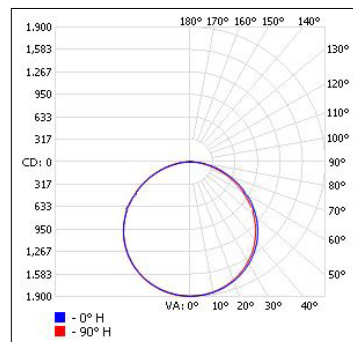
ILLUMINANCE AT A DISTANCE

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°

¹ Complete IES files available on our website.