

Catalog Number	
Notes	Type

Wallpack® LED



LVG - Vandal guard



LWG - Wire guard



Description

Perimeter and security lighting requires excellent control and uniformity while minimizing light trespass and glare. The W4GLED/W4PLED Wallpack LED luminaires excel at this, requiring fewer luminaires to achieve required light levels in infrastructure, industrial and municipal applications. With energy cost reductions up to 77% and expected service life of over 20 years, Wallpack LED provides the latest lighting technology from the company that introduced the very first Wallpack to the market.

Optics

- The W4G uses a tempered glass lens and the W4P uses a protective polycarbonate lens that covers the light engine's precision-molded proprietary acrylic lenses.
- Type 3 medium
- Type 3 short (IP66 rated light engine)

Mechanical

- The housing is constructed of die-cast aluminum and is fully gasketed for ease of maintenance
- The LED driver is mounted to the front casting to thermally isolate it from the light engine for low operating temperature and long life
- Housing is completely sealed against moisture and environmental contaminants, IP55
- Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering.
- A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

Electrical

- Light engine(s) consist of 10-30 high-efficacy LEDs mounted to a metal-core circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life
- The dimmable electronic driver has a power factor of >90%, THD <20%
- SPD: 20kV/10kA standard
- CCT: 3000K, 4000K, 5000K
- CRI: 70CRI
- Integrated emergency backup on W4GLED with T3M option

Installation

- Top 3/4" threaded wiring access
- Back access through removable 3/4" knockout
- Feed-thru wiring can be achieved by using a conduit tee

Certification and Standards

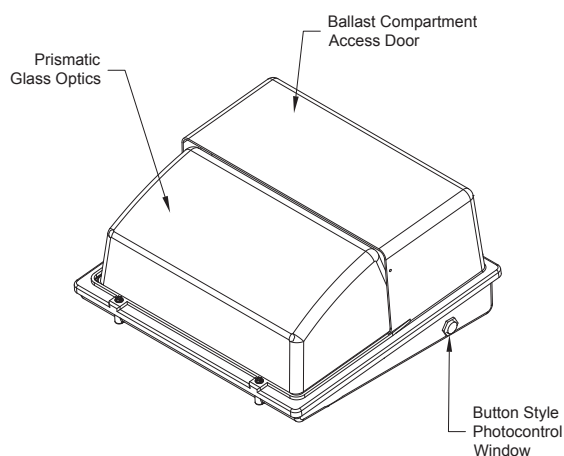
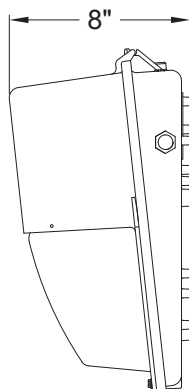
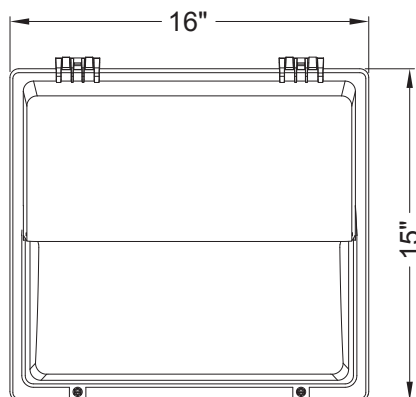
- UL listed for wet locations. Rated for -40°C to 40°C ambient, refer to page 4 for details
- Designlights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- LM-79 compliant
- The projected LED Lumen Maintenance shall be based only on IES LM-80-08 and TM-21

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C.

DIMENSIONAL DATA



ORDERING INFORMATION *Italicized and Blue INDICATES OPTIONS ONLY AVAILABLE WITH W4GLED*

Example: W4GLED 30C1000 40K T3S MVOLT SPD P7 BZSDP

Series	Performance Package	Color Temperature	Distribution	Voltage	Surge Protection
W4GLED <i>Wallpack IV Glass LED</i>	10C1000 <i>10 LED</i>	30K 3000 series CCT	T3M Type III Medium	MVOLT Multi-volt: 120-277 volt	SPD 20kV/10kA (Standard)
W4PLED Wallpack IV Plastic LED	20C1000 <i>20 LED</i>	40K 4000 series CCT	T3S Type III Short	120 120 Volt	
	30C1000 <i>30 LED</i>	50K 5000 series CCT		208 208 Volt	
	10C700 10 LED			240 240 Volt	
	20C700 20 LED			277 277 Volt	
	30C700 30 LED			347 347 Volt	
				480 480 Volt	

Control Options	Options	Super Durable Paint
PE Button Style Photoelectric Cell	AO <i>Field Adjustable Output</i>	BKSDP Black Super Durable Paint
P3 <i>N.E.M.A. Twistlock 3-pin Receptacle - Control not included</i>	SF Single Fusing	BZSDP Bronze Super Durable Paint
P7 <i>N.E.M.A. Twistlock 7-pin Receptacle - Control not included</i>	DF Double Fusing	GYSDP Grey Super Durable Paint
	TP Tamper resistant screws	WHSDP White Super Durable Paint
	NOM NOM Certified	
	ELSW <i>Emergency Battery Backup (Standard 0°C)</i>	
	ELCW <i>Emergency Battery Backup (Cold Weather -20°C)</i>	
	LWG <i>Wire Guard</i>	
	LVG <i>Vandal Guard</i>	

Accessories: Order as separate catalog number.	
DLL127F 1.5 JU	<i>Photocell - SSL Twist-Lock (120-277V)</i>
DLL347 1.5 CUL JU	<i>Photocell - SSL Twist-Lock (347V)</i>
DLL480 1.5 CUL JU	<i>Photocell - SSL Twist-Lock (480V)</i>
SC U	<i>Shorting Cap</i>
W4GVGU	<i>Vandal Guard</i>
W4GWGU	<i>Wire Guard</i>

OPTIONS MATRIX

Parameters		Voltage Options by LED Package			SELECTED OPTION												
		10Cxxxx	20Cxxxx	30Cxxxx	A0	PE	P3	P7	SF	DF	TP	NOM	ELSW	ELCW	LWG	LVG	
LED Package	10Cxxxx				N	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	20Cxxxx				Y	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	30Cxxxx				Y	Y	W4G	W4G	Y	Y	Y	T3M	N	N	Y	W4G	
Voltage	MVOLT	Y	Y	Y	Y	Y	W4G	W4G	Y	N	Y	T3M	W4GM	W4GM	Y	W4G	
	120	Y	Y	Y	Y	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	208	Y	Y	Y	Y	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	240	Y	Y	Y	Y	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	277	Y	Y	Y	Y	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	347	N	Y	Y	Y	Y	W4G	W4G	Y	Y	Y	T3M	N	N	Y	W4G	
	480	N	Y	Y	Y	N	W4G	W4G	Y	Y	Y	T3M	N	N	Y	W4G	
Optic	T3M				Y	Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	T3S				W4G	Y	W4G	W4G	Y	Y	Y	N	N	N	Y	W4G	
Controls	A0					Y	W4G	W4G	Y	Y	Y	T3M	W4GM	W4GM	Y	W4G	
	PE				Y		N	N	Y	N	Y	T3M	N	N	Y	W4G	
	P3				W4G	N		N	W4G	W4G	W4G	W4GM	N	N	W4G	W4G	
	P7				W4G	N	N		W4G	W4G	W4G	W4GM	N	N	W4G	W4G	
Options	SF				Y	Y	W4G	W4G		N	Y	T3M	W4GM	W4GM	Y	W4G	
	DF				Y	Y	W4G	W4G	N		Y	T3M	W4GM	W4GM	Y	W4G	
	TP				Y	Y	W4G	W4G	Y	Y		T3M	W4GM	W4GM	Y	W4G	
	NOM				Y	W4G	W4G	W4G	Y	Y	Y		W4GM	W4GM	N	W4G	
	ELSW				Y	N	N	N	W4G	W4G	W4G	T3M				W4G	W4G
	ELCW				Y	N	N	N	W4G	W4G	W4G	T3M				W4G	W4G
	LWG				Y	Y	Y	Y	Y	Y	Y	T3M	W4GM	W4GM		N	
	LVG				W4G	W4G	W4G	W4G	W4G	W4G	W4G	W4GM	W4GM	W4GM	N		

LEGEND

N = Not available with W4GLED & W4PLED

Y = Valid combination with W4GLED & W4PLED

T3M = Only available on W4GLED & W4PLED with T3M distribution

W4G = Only available with W4GLED

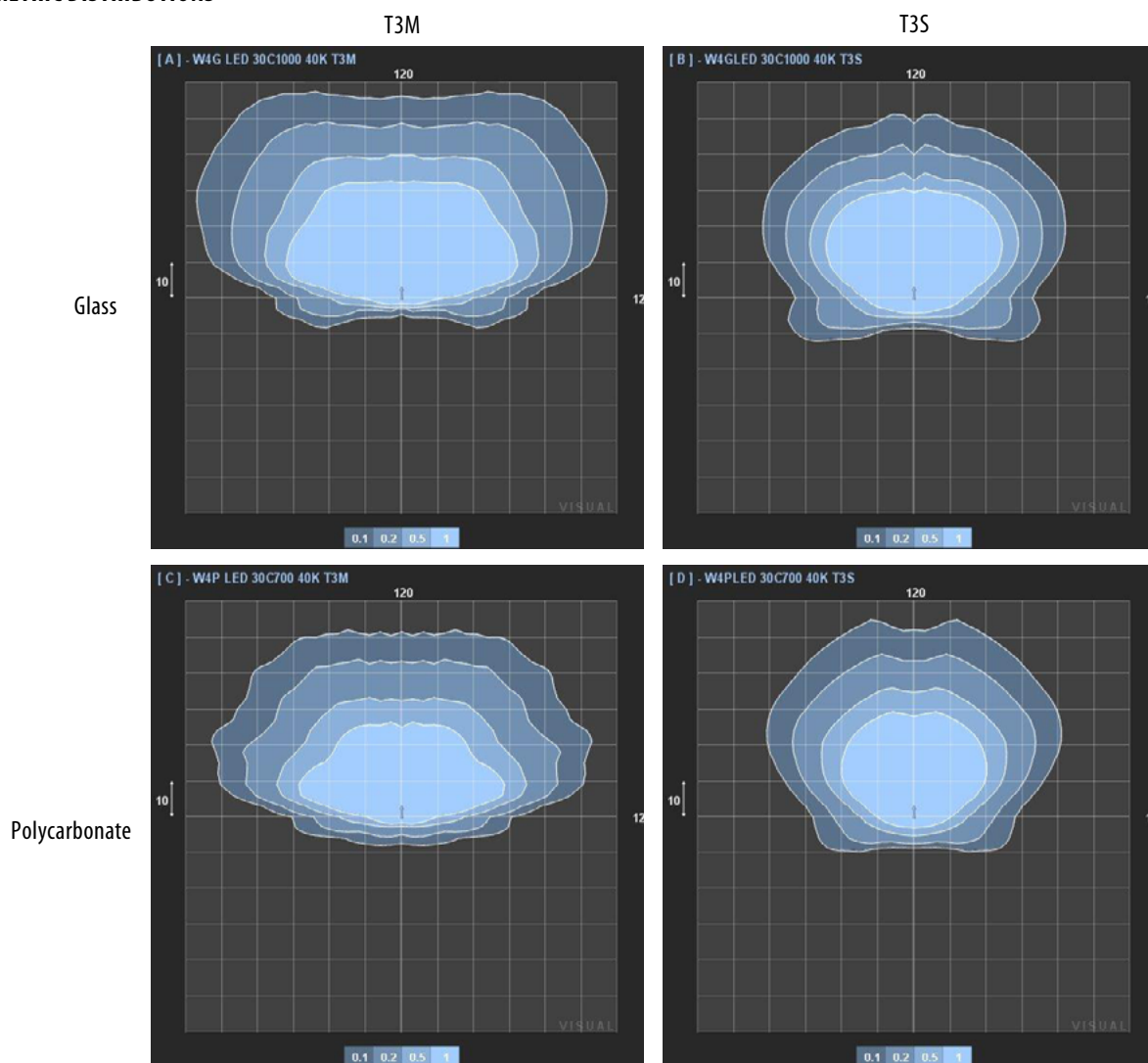
W4GM = Only available on W4GLED with T3M distribution

OPERATIONAL DATA

Operating Characteristics

Series	LED Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
W4G	10C1000	39	T3M	3140	81	0	3	3	3377	87	0	3	3	3398	87	0	3	3
	20C1000	72		6495	90	1	3	4	6983	97	1	3	4	7027	98	1	3	4
	30C1000	104		7789	75	1	3	4	8375	81	1	3	5	8427	81	1	3	5
W4P	10C700	26		2030	78	0	3	2	2183	84	0	3	2	2197	85	0	3	2
	20C700	45		3912	87	0	3	3	4207	93	1	3	3	4233	94	1	3	3
	30C700	67		4813	72	1	3	3	5176	77	1	3	4	5208	78	1	3	4
W4G	10C1000	28	T3S	3206	115	0	3	2	3485	124	0	3	2	3485	124	0	3	2
	20C1000	57		6507	114	1	3	2	7073	124	1	3	3	7073	124	1	3	3
	30C1000	77		8477	110	1	3	3	9214	120	1	3	3	9214	120	1	3	3
W4P	10C700	27		2709	100	0	3	2	2944	109	0	3	3	2944	109	0	3	3
	20C700	38		3299	87	0	3	3	4017	106	1	3	3	4017	106	1	3	3
	30C700	49		4203	86	1	3	3	5173	106	1	3	3	5173	106	1	3	3

PHOTOMETRIC DISTRIBUTIONS



OPERATIONAL DATA

Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25° C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Lumen Maintenance Factor with TM3 Optic Option

Operating Hours	0	25,000	50,000	100,000
Glass Lumen Maintenance Factor	1.00	0.969	0.935	0.870
Polycarbonate Lumen Maintenance Factor	1.00	0.998	0.993	0.982

Lumen Maintenance Factor with T3S Optic Option

Operating Hours	0	25,000	50,000	100,000
Glass Lumen Maintenance Factor	1.00	1.00	0.977	0.925
Polycarbonate Lumen Maintenance Factor	1.00	1.00	0.977	0.925

The italicized is extrapolated beyond the TM-21 standard.

$E = (LM) \times (LAT) \times (LLD)$

Lumen Ambient Temperature (LAT) Multipliers

Use this factors to determine relative lumen output for average ambient temperatures from 0-40° C (32-104°F)

Ambient		Lumen Temperature	
		LEDs with T3M	LEDs with T3S
0° C	32° F	1.02	1.05
10° C	50° F	1.01	1.03
20° C	68° F	1.00	1.01
25° C	77° F	1.00	1.00
30° C	86° F	1.00	0.99
40° C	104° F	0.98	0.97

Ambient Temperature Ratings

Distribution	LED Package	Temperature
T3M	10C1000	40° C
	20C1000	35° C
	30C1000	35° C
	ELSW Option	30° C
	ELCW Option	30° C

Distribution	LED Package	Temperature
T3M	10C700	40° C
	20C700	40° C
	30C700	40° C

Distribution	LED Package	Temperature
T3S	10C700	40° C
	20C700	40° C
	30C700	40° C
	10C1000	40° C
	20C1000	40° C
	30C1000	40° C