Lumark

DESCRIPTION

The Lumark Wal-Pak wall luminaire provides traditional architectural style with high performance energy efficient illumination. Rugged die-cast aluminum construction, stainless steel hardware along with a sealed and gasketed optical compartment make the Wal-Pak virtually impenetrable to contaminants. IP66 Rated. Three available lamp sources including patented energy efficient LED, pulse start metal halide and high pressure sodium. UL/cUL wet location listed. The Wal-Pak wall luminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Housing
Rugged one-piece die-cast aluminum housing and hinged, removable die-cast aluminum door. One-piece silicone gasket seals the optical chamber. UL 1598 wet location listed and IP66 ingress protection rated.

Electrical
Ballasts, LED driver and related electrical components are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. Wiring is extended through a silicone gasket at the back of the housing. Three 1/2" threaded conduit entry points allow for thru-branch wiring. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from LED source. Integral LED electronic driver incorporates internal fusing designed to withstand a 6kV surge test and is Class 2 rated for 120-277V with an operating temperature of -40° to 55°C. Wal-Pak LED systems maintain greater than 93% of the initial light output after 72,000 hours of operation. UL listed HID high power factor ballasts are Class H insulation rated (high pressure sodium: 150, 250, 400W [-40°C / -40°F]. High efficiency HID ballasts are available in 120, 208, 240, 277, 347 and 480V.

Optical
Highly reflective anodized aluminum reflectors provide high efficiency illumination. Optical assemblies include impact resistant borosilicate refractive glass, and full cutoff IESNA compliant configurations. Patented, solid state LED luminaires are thermally optimized with three lumen packages. HID models are offered in horizontal medium or mogul-based metal halide [MP] or high pressure sodium [HP] lamps.

Door Assembly
Single point, captive stainless steel hardware secures the removable hinged door allowing for ease of installation and maintenance. Door assembly is hinged at the bottom for easy removal, installation and re-lamping.

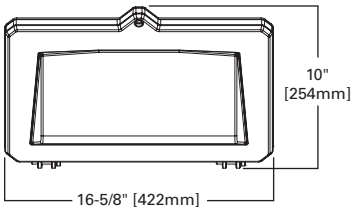
Finish
Finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is bronze. Additional colors available in white, grey, bronze, black, dark platinum and graphite metallic. Consult your lighting representitive at Eaton for a complete selection of standard colors.

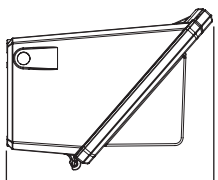




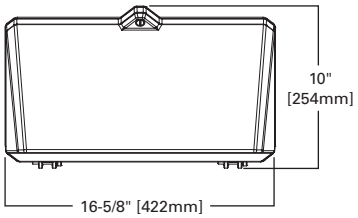
DIMENSIONS

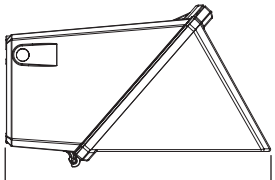
BOROSILICATE GLASS DOOR (GL)





FULL CUTOFF DOOR (FC)





WP WAL-PAK

27, 32 and 46W
LED
70 - 400W
Pulse Start Metal Halide
150 - 400W
High Pressure Sodium

WALL MOUNT LUMINAIRE

TECHNICAL DATA

UL/cUL Wet Location Listed
IP66 Rated
40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum
EISA Ⓔ, ARRA, Title 20 Compliant
LM79 / LM80 Compliant

ENERGY DATA

Reactor Ballast Input Watts
150W HPS NPF (175 Watts)

High Reactance Ballast Input Watts
70W MP HPF (94 Watts)
150W MP HPF (185 Watts)

CWA Ballast Input Watts
200W HPS HPF (250 Watts)
250W MP HPF (283 Watts) Ⓔ
400W HPS HPF (465 Watts)
400W MP HPF (452 Watts) Ⓔ

SHIPPING DATA

Approximate Net Weight:
32-42 lbs. (15-19 kgs.)

*www.designlights.org

POWER AND LUMENS

Catalog Number	Lumens	Power Consumption (Watts)	B.U.G. Rating	Correlated Color Temperature CCT (Kelvin)	Color Rendering Index (CRI)
Borosilicate Glass Door (GL)					
LDWP-GL-3B-ED-7040	3,270	27W	B1-U3-G1	4000K	73
LDWP-GL-4B-ED-7040	4,160	32W	B1-U3-G2	4000K	73
LDWP-GL-6B-ED-7040	5,828	46W	B1-U4-G4	4000K	73
LDWP-GL-3B-ED	3,333	27W	B1-U3-G1	5000K	72
LDWP-GL-4B-ED	4,199	32W	B1-U3-G3	5000K	73
LDWP-GL-6B-ED	5,883	46W	B1-U4-G4	5000K	73
Full Cutoff Door (FC)					
LDWP-FC-3B-ED-7040	1,884	27W	B1-U0-G1	4000K	72
LDWP-FC-4B-ED-7040	2,239	32W	B1-U0-G1	4000K	73
LDWP-FC-6B-ED-7040	3,137	47W	B1-U0-G1	4000K	73
LDWP-FC-3B-ED	1,912	27W	B1-U0-G1	5000K	72
LDWP-FC-4B-ED	2,279	32W	B1-U0-G1	5000K	73
LDWP-FC-6B-ED	3,192	46W	B1-U0-G1	5000K	73

CURRENT DRAW

Light Engine	3B	4B	6B
Nominal Power (Watts)	27W	32W	46W
Input Current @ 120V (A)	0.24	0.28	0.40
Input Current @ 208V (A)	0.14	0.16	0.23
Input Current @ 240V (A)	0.13	0.15	0.20
Input Current @ 277V (A)	0.11	0.13	0.18
Input Current @ 347V (A)	0.09	0.11	0.15
Input Current @ 480V (A)	0.10	0.12	0.14

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)*	Theoretical L70 (Hours)
25°C	> 93%	> 340,000
40°C	> 92%	> 316,000

* Per TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.07
15°C	1.04
25°C	1.00
40°C	0.94

ORDERING INFORMATION

Sample Number: LDWP-FC-4B-120V

Lamp Type	Product Family [2]	Door Type [3]	Lamp Wattage [4]	Voltage [5]
LD=Solid State Light-Emitting Diodes (LED) [1] **HP**=High Pressure Sodium **MP**=Pulse Start Metal Halide	**WP**=Wal-Pak	**GL**=Borosilicate Glass Door **FC**=Full Cutoff Door	**LED** **3B**=(3 Package), 27W **4B**=(4 Package), 32W **6B**=(6 Package), 46W **HP** **150**=150W **250**=250W **400**=400W **MP** **70**=70W **150**=150W **250**=250W **400**=400W	**120V**=120V **208V**=208V **240V**=240V **277V**=277V **347V**=347V [6] **480V**=480V [6] **DT**=Dual-Tap **MT**=Multi-Tap **TT**=Tri-Tap **5T**=5-Tap **E**=Electronic Ballast [7] **ED**=Electronic LED Driver

Options (Add as Suffix) [8]	**Accessories** (Order Separately)
F1=Single Fuse (Must Specify Voltage. 120, 277 or 347V) **PE**=Button Type Photocontrol (Must Specify Voltage. 120, 208, 240 or 277V) **LL**=Lamp Included **Q**=Quartz Restrike T4 Lamp [9] **EM**=Emergency Quartz Restrike T4 Lamp with Time Delay Relay [9] **EMLED-CD**=LED Battery Backup Cold Temperature [10] **7040**=72 CRI / 4000K CCT **AP**=Grey **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White	**WG/WPGL**=Wire Guard Borosilicate Glass Lens Door **WG/WPFC**=Wire Guard Full Cutoff Door **TR/WP**=Tamper-resistant Screw and Bit **VS/WPGL**=Polycarbonate Vandal Shield for Borosilicate Glass Lens Door

NOTES:
1. DesignLights Consortium Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Fixture color is standard bronze unless optional color is specified.
3. Small housing offered for 175W and below for LED models. Large housing for 250W-400W. Clear glass is standard for full cutoff door types except for LD. LD full cutoff door is standard with Solite® glass.
4. LED packages based on 70 CRI / 5000K package at 25°C ambient. Pulse start metal halide 175W and below are medium-base, all others are mogul-base.
5. See voltage chart for descriptions. 5T available in 400W MH models only. 90°C Rated wire required for thru-branch wiring for units 175W and lower. 105°C Rated wire required for thru-branch wiring for units 200W and higher. Thru-branch wiring is rated for 40°C for LD and 175W and below. Higher wattage thru-branch wiring is rated for use in 25°C ambient operating environments.
6. Not available with thru-branch wiring. LED will be supplied with integral step down transformer.
7. Available with 70-150W MP lamps. All electronic ballasts are universal 120-277V.
8. Not all options can be combined. Only one emergency or battery back-up option available within the fixture. LD models utilize EMLED-CD options only for battery back-up.
9. Q or EM not available with LD or E electronic ballast. Minimum 70W for HID wattages.
10. EMLED-CD available with B models only. For use in 25°C ambient operating temperature environments. Specify 120V or 277V. EMLED-CD minimum -20°C/-4°F. Battery pack is a UL recognized component.

STOCK ORDERING INFORMATION - LAMP INCLUDED

Sample Number: WPL4BC

Product Family	Lamp Type	Lamp Wattage	Door/Glass Type
WP=Wal-Pak	**L**=LED **P**=Pulse Start Metal Halide **S**=High Pressure Sodium	**LED** **3B**=27W **4B**=32W **6B**=46W **Pulse Start Metal Halide** **15**=150W **25**=250W **40**=400W **High Pressure Sodium** **15**=150W **25**=250W **40**=400W	**[Blank]**=Standard **C**=Full Cutoff Door

NOTES:
1. Options not available with stock products. Refer to standard order information to add options. Multi-tap standard. Full cutoff door (C), and borosilicate glass door (GL) are standard. 3B, 4B and 6B models available in LED only. LED models are 120-277V. LED model standard with 5000K CCT, standard bronze color.

VOLTAGE CHART

DT=Dual-Tap	120, 277V (Wired 277V)
MT=Multi-Tap	120, 208, 240, 277V (Wired 277V)
TT=Triple-Tap	120, 277, 347V (Wired 347V)
5T=5-Tap	120, 208, 240, 277, 480V (Wired 480V)
E=Electronic Ballast	120-277V (Universal - 50-60Hz)
ED=Electronic LED Driver	120-277V (Universal - 50-60Hz)

Lumark

DESCRIPTION

The Lumark Wal-Pak wall luminaire provides traditional architectural style with high performance energy efficient illumination. Rugged die-cast aluminum construction, stainless steel hardware along with a sealed and gasketed optical compartment make the Wal-Pak virtually impenetrable to contaminants. IP66 Rated. Three available lamp sources including patented energy efficient LED, pulse start metal halide and high pressure sodium. UL/cUL wet location listed. The Wal-Pak wall luminaire is ideal for pathway illumination, building entrances, vehicle ramps, schools, tunnels, stairways and loading docks.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Housing
Rugged one-piece die-cast aluminum housing and hinged, removable die-cast aluminum door. One-piece silicone gasket seals the optical chamber. UL 1598 wet location listed and IP66 ingress protection rated.

Electrical
Ballasts, LED driver and related electrical components are hard mounted to the die-cast housing for optimal heat sinking and operating efficiency. Wiring is extended through a silicone gasket at the back of the housing. Three 1/2" threaded conduit entry points allow for thru-branch wiring. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from LED source. Integral LED electronic driver incorporates internal fusing designed to withstand a 6kV surge test and is Class 2 rated for 120-277V with an operating temperature of -40° to 55°C. Wal-Pak LED systems maintain greater than 93% of the initial light output after 72,000 hours of operation. UL listed HID high power factor ballasts are Class H insulation rated (high pressure sodium: 150, 250, 400W [-40°C / -40°F]. High efficiency HID ballasts are available in 120, 208, 240, 277, 347 and 480V.

Optical
Highly reflective anodized aluminum reflectors provide high efficiency illumination. Optical assemblies include impact resistant borosilicate refractive glass, and full cutoff IESNA compliant configurations. Patented, solid state LED luminaires are thermally optimized with three lumen packages. HID models are offered in horizontal medium or mogul-based metal halide [MP] or high pressure sodium [HP] lamps.

Door Assembly
Single point, captive stainless steel hardware secures the removable hinged door allowing for ease of installation and maintenance. Door assembly is hinged at the bottom for easy removal, installation and re-lamping.

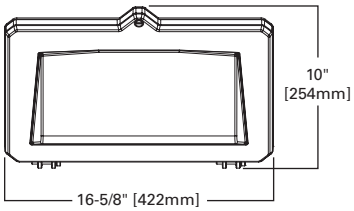
Finish
Finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is bronze. Additional colors available in white, grey, bronze, black, dark platinum and graphite metallic. Consult your lighting representitive at Eaton for a complete selection of standard colors.

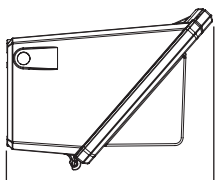




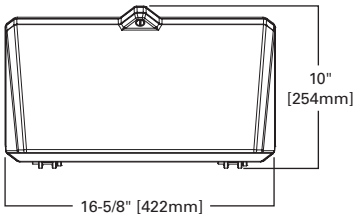
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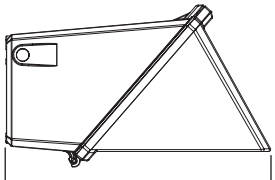
BOROSILICATE GLASS DOOR (GL)





FULL CUTOFF DOOR (FC)





WP WAL-PAK

27, 32 and 46W
LED
70 - 400W
Pulse Start Metal Halide
150 - 400W
High Pressure Sodium

WALL MOUNT LUMINAIRE

TECHNICAL DATA

UL/cUL Wet Location Listed
IP66 Rated
40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum
EISA Ⓔ, ARRA, Title 20 Compliant
LM79 / LM80 Compliant

ENERGY DATA

Reactor Ballast Input Watts
150W HPS NPF (175 Watts)

High Reactance Ballast Input Watts
70W MP HPF (94 Watts)
150W MP HPF (185 Watts)

CWA Ballast Input Watts
200W HPS HPF (250 Watts)
250W MP HPF (283 Watts) Ⓔ
400W HPS HPF (465 Watts)
400W MP HPF (452 Watts) Ⓔ

SHIPPING DATA

Approximate Net Weight:
32-42 lbs. (15-19 kgs.)

*www.designlights.org

POWER AND LUMENS

Catalog Number	Lumens	Power Consumption (Watts)	B.U.G. Rating	Correlated Color Temperature CCT (Kelvin)	Color Rendering Index (CRI)
Borosilicate Glass Door (GL)					
LDWP-GL-3B-ED-7040	3,270	27W	B1-U3-G1	4000K	73
LDWP-GL-4B-ED-7040	4,160	32W	B1-U3-G2	4000K	73
LDWP-GL-6B-ED-7040	5,828	46W	B1-U4-G4	4000K	73
LDWP-GL-3B-ED	3,333	27W	B1-U3-G1	5000K	72
LDWP-GL-4B-ED	4,199	32W	B1-U3-G3	5000K	73
LDWP-GL-6B-ED	5,883	46W	B1-U4-G4	5000K	73
Full Cutoff Door (FC)					
LDWP-FC-3B-ED-7040	1,884	27W	B1-U0-G1	4000K	72
LDWP-FC-4B-ED-7040	2,239	32W	B1-U0-G1	4000K	73
LDWP-FC-6B-ED-7040	3,137	47W	B1-U0-G1	4000K	73
LDWP-FC-3B-ED	1,912	27W	B1-U0-G1	5000K	72
LDWP-FC-4B-ED	2,279	32W	B1-U0-G1	5000K	73
LDWP-FC-6B-ED	3,192	46W	B1-U0-G1	5000K	73

CURRENT DRAW

Light Engine	3B	4B	6B
Nominal Power (Watts)	27W	32W	46W
Input Current @ 120V (A)	0.24	0.28	0.40
Input Current @ 208V (A)	0.14	0.16	0.23
Input Current @ 240V (A)	0.13	0.15	0.20
Input Current @ 277V (A)	0.11	0.13	0.18
Input Current @ 347V (A)	0.09	0.11	0.15
Input Current @ 480V (A)	0.10	0.12	0.14

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)*	Theoretical L70 (Hours)
25°C	> 93%	> 340,000
40°C	> 92%	> 316,000

* Per TM-21 data.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.07
15°C	1.04
25°C	1.00
40°C	0.94

ORDERING INFORMATION

Sample Number: LDWP-FC-4B-120V

Lamp Type	Product Family [2]	Door Type [3]	Lamp Wattage [4]	Voltage [5]
LD=Solid State Light-Emitting Diodes (LED) [1] **HP**=High Pressure Sodium **MP**=Pulse Start Metal Halide	**WP**=Wal-Pak	**GL**=Borosilicate Glass Door **FC**=Full Cutoff Door	**LED** **3B**=(3 Package), 27W **4B**=(4 Package), 32W **6B**=(6 Package), 46W **HP** **150**=150W **250**=250W **400**=400W **MP** **70**=70W **150**=150W **250**=250W **400**=400W	**120V**=120V **208V**=208V **240V**=240V **277V**=277V **347V**=347V [6] **480V**=480V [6] **DT**=Dual-Tap **MT**=Multi-Tap **TT**=Tri-Tap **5T**=5-Tap **E**=Electronic Ballast [7] **ED**=Electronic LED Driver

Options (Add as Suffix) [8]	**Accessories** (Order Separately)
F1=Single Fuse (Must Specify Voltage. 120, 277 or 347V) **PE**=Button Type Photocontrol (Must Specify Voltage. 120, 208, 240 or 277V) **LL**=Lamp Included **Q**=Quartz Restrike T4 Lamp [9] **EM**=Emergency Quartz Restrike T4 Lamp with Time Delay Relay [9] **EMLED-CD**=LED Battery Backup Cold Temperature [10] **7040**=72 CRI / 4000K CCT **AP**=Grey **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White	**WG/WPGL**=Wire Guard Borosilicate Glass Lens Door **WG/WPFC**=Wire Guard Full Cutoff Door **TR/WP**=Tamper-resistant Screw and Bit **VS/WPGL**=Polycarbonate Vandal Shield for Borosilicate Glass Lens Door

NOTES:
1. DesignLights Consortium Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Fixture color is standard bronze unless optional color is specified.
3. Small housing offered for 175W and below for LED models. Large housing for 250W-400W. Clear glass is standard for full cutoff door types except for LD. LD full cutoff door is standard with Solite® glass.
4. LED packages based on 70 CRI / 5000K package at 25°C ambient. Pulse start metal halide 175W and below are medium-base, all others are mogul-base.
5. See voltage chart for descriptions. 5T available in 400W MH models only. 90°C Rated wire required for thru-branch wiring for units 175W and lower. 105°C Rated wire required for thru-branch wiring for units 200W and higher. Thru-branch wiring is rated for 40°C for LD and 175W and below. Higher wattage thru-branch wiring is rated for use in 25°C ambient operating environments.
6. Not available with thru-branch wiring. LED will be supplied with integral step down transformer.
7. Available with 70-150W MP lamps. All electronic ballasts are universal 120-277V.
8. Not all options can be combined. Only one emergency or battery back-up option available within the fixture. LD models utilize EMLED-CD options only for battery back-up.
9. Q or EM not available with LD or E electronic ballast. Minimum 70W for HID wattages.
10. EMLED-CD available with B models only. For use in 25°C ambient operating temperature environments. Specify 120V or 277V. EMLED-CD minimum -20°C/-4°F. Battery pack is a UL recognized component.

STOCK ORDERING INFORMATION - LAMP INCLUDED

Sample Number: WPL4BC

Product Family	Lamp Type	Lamp Wattage	Door/Glass Type
WP=Wal-Pak	**L**=LED **P**=Pulse Start Metal Halide **S**=High Pressure Sodium	**LED** **3B**=27W **4B**=32W **6B**=46W **Pulse Start Metal Halide** **15**=150W **25**=250W **40**=400W **High Pressure Sodium** **15**=150W **25**=250W **40**=400W	**[Blank]**=Standard **C**=Full Cutoff Door

NOTES:
1. Options not available with stock products. Refer to standard order information to add options. Multi-tap standard. Full cutoff door (C), and borosilicate glass door (GL) are standard. 3B, 4B and 6B models available in LED only. LED models are 120-277V. LED model standard with 5000K CCT, standard bronze color.

VOLTAGE CHART

DT=Dual-Tap	120, 277V (Wired 277V)
MT=Multi-Tap	120, 208, 240, 277V (Wired 277V)
TT=Triple-Tap	120, 277, 347V (Wired 347V)
5T=5-Tap	120, 208, 240, 277, 480V (Wired 480V)
E=Electronic Ballast	120-277V (Universal - 50-60Hz)
ED=Electronic LED Driver	120-277V (Universal - 50-60Hz)