

WALL PACK (MWP13)



DESCRIPTION

Cast in a modern and low-profile design, MESTER MWP13 series is easily customized to fit every building's design aesthetic and a mix of architectural styling and energy savings. Available in two sizes, the MWP13 family delivers 2,750 to 15,000 lumens with a wide, uniform distribution. It's ideal for illuminating commercial office buildings warehouses, campuses, shopping malls and other office complexes.

SPECIFICATION FEATURES

Construction

- Sealed die-casting profile for outdoor applications.
- Casting thermally conducts LED heat to optimize performance and long life.
- The design with zero uplight meets the requirements of dark sky.

Optics

- Switchable color temperature 3000K/4000K/5000K.
- Adjustable lumen output with four lumen settings 100%, 80%, 60%, 40%.
- Scalable Lumen Packages from 2,750 to 15,000 Lumens.
- Zero uplight distributions using individual acrylic.
- High performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity.

Electrical

- Universal 120-277 VAC input voltage.
- 0-10V dimming standard for a dimming range of 100% to 10%.
- Both drivers have a power factor >90%, THD <20%.
- Operating Temperature Range: -40°C to 40°C (-40°F - + 104°F).

Controls

- Optional Occupancy sensor, Microwave sensor, Multifunction Sensor or daylight sensor or photo control.
- Optional Bluetooth sensor or Bluetooth controller.
- Silvair Luminaire Level Lighting Control (LLC) optional.
- Sharkward Luminaire Level Lighting Control (LLC) optional.
- Haisen Luminaire Level Lighting Control (LLC) optional.
- Also compatible with 3rd party smart network control system.
- High End Trim
- Optional Emergency Battery

Lifespan

- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Warranty

- Five-year limited warranty.

Certifications

- UL cUL wet location listed.
- DesignLights Consortium™ Qualified.
- Note : DesignLights Consortium™ Qualified and classified for DLC Premium refer to www.designlights.org for details.

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(±5°C) specifications subject to change without notice.



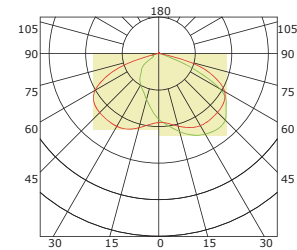
Small size: 45W



Large size: 70W/95W



PHOTOMETRICS



ACCESSORIES



120-277V Integrated Photocell
Description: Photocell can be pre-installed in the factory before shipment



Plug-and-Play PIR Sensor
PIR sensor: ANT-6-4T
Bluetooth PIR sensor: ANT-6-4T-BLE-SR



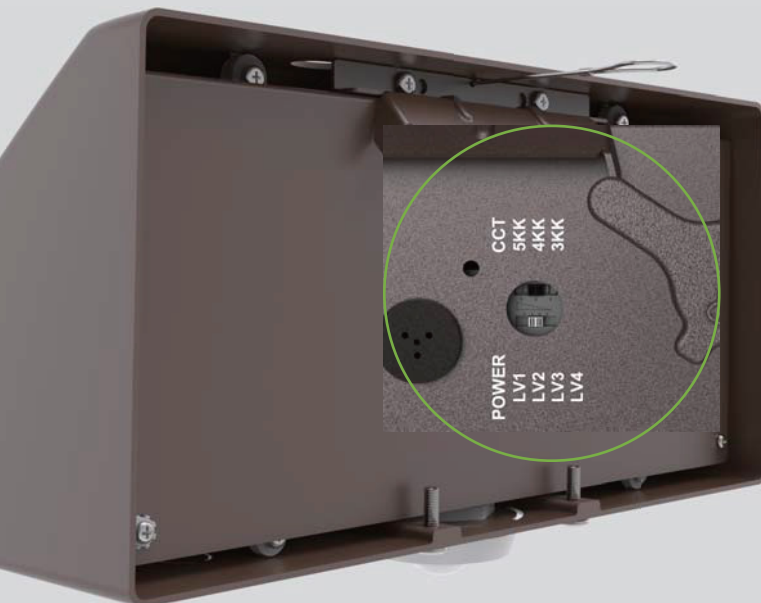
Emergency Battery Backup
Description: It can be pre-installed in factory or field installed



Surface-Mounted Back Box
Description: Easy to install to recessed J-box or surface mount.
W4.8" x H5.3" x 1.77"



CCT and Wattage controller
Description: Allowing the contractor to set the lumen value and CCT of the fixture at the installation site.



CCT AND WATTAGE CONTROLLER

This fixture has the function of adjusting the lumens output and color temperature on-site.



Wattage selectable: 100%, 80%, 60%, 40%
CCT selectable: 3000K, 4000K, 5000K

PERFORMANCE DATA

| MWP13 45W | | | | | | | |
|-----------|--------------|----------------|-------------|----------------|-------------|----------------|-------------|
| SETTING | SYSTEM WATTS | 3000K | | 4000K | | 5000K | |
| | | LUMENS (70CRI) | LPW (70CRI) | LUMENS (70CRI) | LPW (70CRI) | LUMENS (70CRI) | LPW (70CRI) |
| 100% | 45W | 6500lm | 144lm/w | 7000lm | 156lm/w | 6750lm | 150lm/w |
| 80% | 36W | 5300lm | 147lm/w | 5700lm | 158lm/w | 5500lm | 153lm/w |
| 60% | 27W | 4050lm | 150lm/w | 4400lm | 163lm/w | 4200lm | 156lm/w |
| 40% | 18W | 2750lm | 153lm/w | 3000lm | 167lm/w | 2900lm | 161lm/w |

| MWP13 70W | | | | | | | |
|-----------|--------------|----------------|-------------|----------------|-------------|----------------|-------------|
| SETTING | SYSTEM WATTS | 3000K | | 4000K | | 5000K | |
| | | LUMENS (70CRI) | LPW (70CRI) | LUMENS (70CRI) | LPW (70CRI) | LUMENS (70CRI) | LPW (70CRI) |
| 100% | 70W | 10500lm | 150lm/w | 11600lm | 166lm/w | 11000lm | 157lm/w |
| 80% | 56W | 8700lm | 155lm/w | 9600lm | 171lm/w | 9000lm | 161lm/w |
| 60% | 42W | 6700lm | 160lm/w | 7400lm | 176lm/w | 7000lm | 167lm/w |
| 40% | 28W | 4700lm | 168lm/w | 5100lm | 182lm/w | 4800lm | 171lm/w |

| MWP13 95W | | | | | | | |
|-----------|--------------|----------------|-------------|----------------|-------------|----------------|-------------|
| SETTING | SYSTEM WATTS | 3000K | | 4000K | | 5000K | |
| | | LUMENS (70CRI) | LPW (70CRI) | LUMENS (70CRI) | LPW (70CRI) | LUMENS (70CRI) | LPW (70CRI) |
| 100% | 95W | 13800lm | 145lm/w | 15000lm | 158lm/w | 14300lm | 151lm/w |
| 80% | 76W | 11300lm | 149lm/w | 12300lm | 162lm/w | 11700lm | 154lm/w |
| 60% | 57W | 8700lm | 153lm/w | 9400lm | 165lm/w | 8900lm | 156lm/w |
| 40% | 38W | 5900lm | 155lm/w | 6400lm | 168lm/w | 6000lm | 158lm/w |

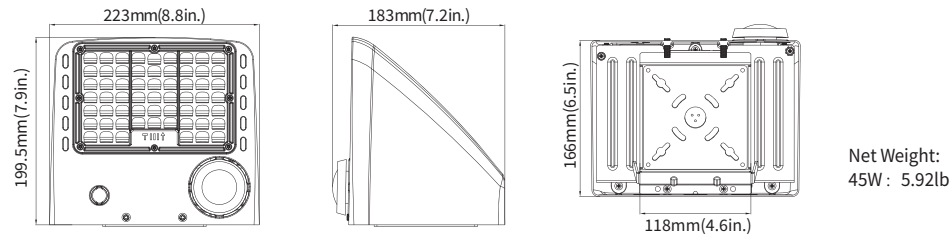
ELECTRICAL DATA

| Number Of Drivers | Driver Current (mA) | Nominal Power (W) | INPUT VOLTAGE (V) | CURRENT (Amps) |
|-------------------|---------------------|-------------------|-------------------|----------------|
| 1 | 680 | 45 | 120 | 0.38 |
| | | 45 | 208 | 0.22 |
| | | 45 | 240 | 0.19 |
| | | 45 | 277 | 0.16 |
| 1 | 1050 | 70 | 120 | 0.58 |
| | | 70 | 208 | 0.34 |
| | | 70 | 240 | 0.29 |
| | | 70 | 277 | 0.25 |
| 1 | 850 | 95 | 120 | 0.79 |
| | | 95 | 208 | 0.46 |
| | | 95 | 240 | 0.40 |
| | | 95 | 277 | 0.34 |

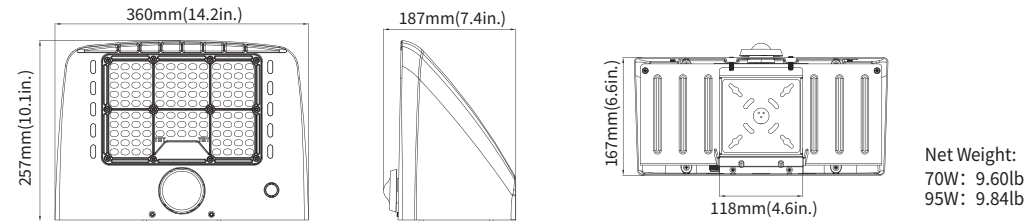
DIMENSIONS

unit: mm/inch

Small size: 45W



Large size: 70W/95W





ORDERING GUIDE

Example: MWP13 45W 27V DDK Y Y Y Y Y

| Fixture Type | Wattage | Voltage | CCT | Finish | Photocell (Option) | Sensor (Option) | Emergency Battery (Option) | Internal Code |
|------------------------------|----------------------------|----------------------|---|-------------------------------------|---|---|--|-----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| MWP13 Wall Pack Series | 45 45W 70 70W 95 95W | 27V 120-277V | DDK Adjustable color temperature | D Dark Bronze B Black W White | P 120-277V Photocell Blank Without Photocell | M With Sensor Blank Without Sensor | B Emergency Battery Blank Without Emergency Battery | Blank Alphanumeric |

MOUNTING

| | | | |
|--|---|--|---|
|  | The external portable mounting plate makes installation super easy and simple. There's no need to open fixture housing, nor drill on housing, which greatly minimize the risk of water ingress. |  | The optional external Surface-Mounted Back Box can not only support standard J-box installation but also support outer-surface conduits wiring through the 1/2" knockouts on 4 sides without a J-box. |
|--|---|--|---|