



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760 Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

### Architectural Review Board Staff Report

| Project Type: | Amended Site Development Plan   |
|---------------|---|
| Meeting Date: | December 12, 2013   |
| From:         | Purvi Patel<br>Project Planner  |
| Cc:           | Aimee Nassif, Planning & Development Services Director  |
| Location:     | 18500 Edison Avenue   |
| Applicant:    | Farnsworth Group, on behalf of Monsanto Company   |
| Description:  | <b>Spirit of St. Louis Airpark, Monsanto Hanga</b> r: An Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and an Architect's Statement of Design for an 11 acre tract of land zoned "M3" Planned Industrial District located on the south side of Edison Avenue, east of Spirit of St. Louis Boulevard. |

### PROPOSAL SUMMARY

The request is for a 28,460 square foot aircraft storage and light maintenance hangar building located within the Spirit of St. Louis Airpark development. The subject site is zoned "M3" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance 1430. The exterior building materials will be comprised of painted metal panel siding. The proposal includes a flat painted metal panel roof.

### **HISTORY OF SUBJECT SITE**

St. Louis County approved a rezoning from an "NU" Non-Urban District to an "M-3" Planned Industrial District for Spirit of St. Louis Airport via Ordinance 2212 prior to the incorporation of the City of Chesterfield. The ordinance was subsequently amended by St. Louis County Ordinance 9642, 11,768, 13,838, and 13,935 and City of Chesterfield Ordinance 656, 870, 1156, and 1312.

The ordinance amendments were to allow for additional uses, amend setbacks, and amend the boundaries of the "M3" Planned Industrial District. The current ordinance governing the site is City of Chesterfield Ordinance 1430.

The existing building was constructed in 1999 and since that time, there have been no alterations to the subject site. The proposed hangar addition is a stand-alone building and will not be physically attached to the existing building; additionally, there are no changes proposed to the existing building.



### STAFF ANALYSIS

General Requirements for Site Design:

### A. Site Relationships

The subject site is located near the terminus of Edison Avenue and is surrounded by other similar uses within the airport context. Additionally, the proposed building uses similar materials and design as other buildings constructed in the area.

The location of the proposed building is directly adjacent to the airport runways and does not have frontage along Edison Avenue or face the existing parking on site.

### **B. Circulation System and Access**

There are two existing entrances to the site off of Edison Avenue on the northern portion of the site and no changes are proposed to these entrances. A taxiway is proposed on the southern portion of the site with the circulation being governed by the Spirit of St. Louis Airport. Additionally, the access to the taxiway will be restricted to the public.

Similar to vehicular traffic, the pedestrian traffic near the proposed building will be strictly controlled and monitored due to the proximity of the building to the proposed taxiway.

### C. Topography

The existing grade of the property is nearly flat. Minimal changes to the existing topography are planned.

### D. Retaining Walls

No retaining walls are proposed on the site.

### **General Requirements for Building Design:**

### A. Scale

The applicant is proposing a building of similar height and size as the adjacent structures. The tallest point on the building is approximately 37 feet 11 inches; this height is required to ensure that the building can shelter a variety of aircrafts and perform the necessary maintenance to the aircrafts.

There is an ancillary addition to the main hangar, as seen on the East and West Elevations. As noted in the Architect's Statement of Design, the addition is designed to the human scale and by scale provides a strong visual cue for entry. This portion of the addition is set back from the main hangar to avoid potential gusts of air from the engines being directed towards people exiting the proposed hangar.

### B. Design

The proposed hangar is similar to other nearby hangars, as well as the existing hangar on the site, in both materials and design. The existing hangar on site is connected to the building associated with the use; however, the proposed hangar is not physically connected to any structures on site. As discussed above, the proposed building is located directly adjacent to the taxiway and does not have direct access to the parking area.

There are no roof parapets included in the design of the hangar and the applicant has confirmed that no rooftop equipment is proposed for this facility.

The two large green areas shown on the colored Amended Site Development Plan on the southern portion of the site will serve as the MSD Stormwater BMP areas.

### C. Materials and Color

The building will be primarily comprised of painted metal siding—more specifically pre-engineered steel—which is typical for this building type. The design also includes expansive windows to allow natural light into the space. Additionally, large door openings are proposed in order to promote cross-ventilation. The proposed materials and colors are chosen to match the existing Monsanto Hangar on the site and other buildings within the airport complex.

### D. Landscape Design and Screening

There is no additional landscaping planned for the site. The proposal includes grassy areas in locations not occupied by taxiway, runways, and aircraft staging areas.

### E. Signage

Signage is not part of the proposal before Architectural Review Board and will be reviewed by Staff.

### F. Lighting

The plan proposes two different light fixtures attached to the proposed building. The first fixture, noted as SA on the plan, is a fully-shielded metal halide flood light with a cut-off shield. The purpose of this fixture is to illuminate the tarmac and will be mounted at approximately thirty (30) feet on the building. The applicant is adding a cut-off shield in order ensure there is no light trespass. The second fixture type proposed, noted as SB on the plan, is a fully enclosed metal halide wall pack. This fixture will be mounted at approximately eleven (11) feet on the building. Cut-sheets for both fixture types are included in the packet, as well as a letter from the Project Designer explaining the proposed lighting.

### DEPARTMENTAL INPUT

Staff has reviewed the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design. A comment letter has been sent to the applicant regarding the outstanding issues pertaining to Staff's initial review of the Site Development Section Plan.

Staff requests action on the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Monsanto Hangar.

### MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Monsanto Hangar, as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Site Development Plan, Amended Lighting Plan, Amended Architectural Elevations and Architect's Statement of Design for the Spirit of St. Louis Airpark, Monsanto Hangar, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



### ADDITIONAL PROJECT INFORMATION: N/A

| Check | list: Items to be provided in an 11" x 17" format  |
|-------|--|
| ~     | Color Site Plan with contours, site location map, and identification of adjacent uses.   |
| ~     | Color elevations for all building faces.   |
| ~     | Color rendering or model reflecting proposed topography.   |
| ~     | Photos reflecting all views of adjacent uses and sites.  |
|       | Details of screening, retaining walls, etc.  |
|       | Section plans highlighting any building off-sets, etc. (as applicable)   |
| ~     | Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project. |
|       | Landscape Plan.  |
| ~     | Lighting cut sheets for any proposed building lighting fixtures. (as applicable)   |
| ~     | Large exterior material samples. (to be brought to the ARB meeting)  |
| ~     | Any other exhibits which would aid understanding of the design proposal. (as applicable)   |
| ~     | Pdf files of each document required.   |
| L     |  |

690 Chesterfield Parkway West, Chesterfield, MO 63017-0760 Ph. (636)537-4746 Fax (636)537-4798 www.chesterfield.mo.us



20 Allen Ave, Ste 200 St. Louis, MO 63119 p 314.962.7900 f 314.962.1253

www.f-w.com | www.greennavigation.com

October 31, 2013

City of Chesterfield Architectural Review Board 690 Chesterfield Parkway West Chesterfield, MO 63017-0760

### Re: Architect's Statement of Design – Monsanto Spirit of St. Louis Hangar

Dear Architectural Review Board,

This document shall serve as the Architect's Statement of Design, which will identify how each section of the City of Chesterfield's design standards have been addressed for the above referenced project.

### 1. General Requirements for Site Design

a) Site Relationships

The proposed building will match the architectural components of other buildings adjacent to the proposed site. The building is a stand-alone structure that will not be physically attached to any existing structures. The building is intended to fit into the existing airport context, and will be part of an overall campus of airport structures. It does not sit directly adjacent to the vehicular street, but sits directly adjacent to the airport runways. For the safety of the public and the airport, the building will be off-limits to the public and pedestrian traffic. The public side of the airport and the off-limits side is separated by a fence. Since the building and grounds are not accessible to the public, the following site elements have not been provided: plazas, courtyards, assembly areas, scenic views, fountains, or artwork.

The Federal Aviation Administration (FAA) dictates the orientation of the building. The building is required to be positioned in such a way to not impede visual inspection of the runways from the air traffic control tower. As a result, almost all of the passive building orientation could not be considered. The building does contain a significant amount of glazing to provide natural daylighting. The building doors have large door openings on the long axis to promote cross ventilation.

b) Circulation System and Access

Circulation System is governed by the Spirit of Saint Louis Airport. Pedestrian traffic shall remain within close proximity of the building and the ramp. Pedestrian traffic is strictly controlled and monitored on taxiways. Pedestrian traffic is deemed normal on nearby Edison Ave. Most pedestrian traffic will be from the neighboring building and it will fulfill two roles: maintenance of aircraft and boarding / deplaning aircraft. For the safety of the public and the airport, the building will be off-limits to the public and pedestrian traffic.

All utilities for the site are below grade.

Service and loading areas are not within main circulation. Access for trash shall utilize the existing system. Trash generated by the hangar shall be staged and transported as necessary to the existing building.

Bicycle Traffic is not allowed on working surfaces of the airport. Cyclists shall be served by the existing building.

Vehicular traffic is restricted to aircraft support services. All public vehicular parking will be served by existing areas. Landscaping is limited to grassy areas in locations not occupied by taxiway, runways, and aircraft staging zones.

Public transportation will utilize existing amenities in the surrounding area.

c) Topography

All grading and surface improvements are dictated by water shedding capability of the hangar and the surrounding area. Grading is also designed for aircraft maneuverability. All surrounding areas of the hangar are improved surfaces. Therefore, a trench drain shall be installed between the existing hangar and the new hangar to drain surface runoff from precipitation. The site is nearly flat, minor cut and fill will be used to gain additional elevation under the building footprint to allow proper drainage. The cut and fill shall present a smooth appearance and shall be rounded to the extent as to appear flat.

d) Retaining Walls

There are no new retaining walls in the project.

### 2. General Requirements for Building Design

### a) Scale

Hangar design is dictated by the sheltering and maintenance of the aircraft. The proposed hangar is designed to be visually neutral for pilots on approach. The hangar pattern shall match existing buildings and give a cohesive sightline. Hangars dominate the area and they use light color schemes. The proposed hangar shall visually meld in the existing fabric. The ancillary addition portion of the hangar design shall be designed to the human scale and by scale provides a strong visual cue for entry. The ancillary addition shall also be setback from the main West elevation of the building to avoid potential gusts of air from engines affecting people exiting the hangar.

b) Design

The design shall incorporate colors from existing cues and are intended to match the existing Monsanto building colors.

The proposed hangar shall not incorporate any overt signage of ownership, nor shall it impinge on the existing area with a stylized exterior of corporate branding.

The proposed hangar is designed in accordance with the International Energy Conservation Code of 2009 with an insulated envelope. The design also incorporates extensive windows. This character encourages energy efficiency with natural daylight. The building has large door openings on the long axis to promote cross-ventilation.

The entry is noted by the ancillary addition and its recessed position. Overt protection from elements is not necessary, but geometrically the position offers significant protection from the environment by being a recessed alcove on the Northwest side. Prevailing winds are from the South.

Painting and trim of temporary barriers shall be in accordance with the guidelines as set forth by the Spirit of Saint Louis Airport.

An emergency generator will be present on-site. This will be screened with natural vegetation. All other exterior equipment will be screened naturally.

c) Materials and Colors

The materials and colors of the building will match the existing Monsanto hangar and other buildings within the airport context. Finish is a durable and high-performance paint. Color shall be coordinated with the existing hangar and shall blend in with other hangars on-site.

The design incorporates a pre-engineered steel building, which is typical solution for this building type. It is a highly durable hangar material and structure.

Aircraft needs shall dictate the paving surface construction. Pedestrian traffic areas in public zones already in place are designated by different pavements to clearly delineate pedestrian areas.

Landscaping is limited to grassy areas in locations not occupied by taxiway, runways, and aircraft staging zones. The exterior equipment and emergency generator shall be screened with natural landscaping.

Additional fencing is not proposed.

d) Signage

Signage is minimized to areas where it is required by local code. As mentioned above, the building shall not utilize any corporate branding or signage.

e) Lighting

Lighting is used for safety and security. The exterior lighting will adhere to the local code as governed within the limits of the City of Chesterfield. Exterior lighting will be utilized and selected in such a way to eliminate or reduce light pollution.

End of Statement







# AMENDED SITE DEVELOPMENT PLAN **MONSANTO SPIRIT OF ST. LOUIS HANGAR**

SCALE: 1"=60'



CAD FILE NAME 0130858-SITE DISTANCE STUDY CONC 10.DWG PRINTS ISSUED TO FIELD BY



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|    | 800 NORTH LINDBERGH BOULEVARD<br>SAINT LOUIS, MISSOURI 63167<br>PLANT<br>Monsanto Spirit of St. Louis Hangar<br>Elevations Color<br>18510 Edison Ave, Chesterfield, MO 63005  |                       |
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|                   | LUMINAIRE SCHEDULE |   |                 |                    |         |                    |                        |
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| SA                |                    | FM-1500 C 277 TDB WB-1-(F) ALF-10-F-L/LENS-(F) SK-100-(F) | 1               | 1500W METAL HALIDE | 277     | VARIES             | INDUSTRIAL FLOODLIGHT  |
| SB                | COOPER LIGHTING    | WKP 40 M CWI 7 FC BZ                                      | 1               | 400W METAL HALIDE  | 277     | VARIES             | WALL MOUNTED LUMINAIRE |

### IGHT FIXTURE SCHEDULE NOTES:

COORDINATE WITH SUPPLIER ON LENGTH AND REQUIRED FITTINGS FOR CONTINUOUS FIXTURE AS SHOWN ON DRAWINGS WITH UNIFORM ILLUMINATION ALONG FIXTURE INCLUDING CORNERS. CONTRACTOR SHALL REMOVE ALL FINGER PRINTS FROM LENSES, REFLECTORS, AND LOUVERS FOLLOWING LIGHT FIXTURE INSTALLATION. FOR APPROVAL OF FIXTURES FROM MANUFACTURERS OTHER THAN THOSE LISTED, PROPOSED FIXTURE CUTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER TEN (10) BUSINESS DAYS PRIOR TO BID FOR REVIEW. FINAL DETERMINATION OF 'EQUAL' STATUS FOR BIDDING SHALL BE THE SOLE DETERMINATION OF THE ARCHITECT/ENGINEER.

5

## Symbol Avg Max Min Max/Min Avg/Min Avg/Ma + 2.4 fc 51.0 fc 0.1 fc 510.0:1 24.0:1 0.0:1 Description Calc Zone #3 FC = Foot candles (unit of luminance)

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To, Purvi Patel Project Planner City of Chesterfield

690 Chesterfield Parkway West Chesterfield, MO 63017

Subject : Monsanto Hangar at Spirit of Chesterfield Airport in Chesterfield, Missouri

### **Basis of Design for Exterior Lighting**

We intend to use a fully enclosed 1500 watts Metal Halide flood light fixture with a cut-off shield for illuminating the tarmac (labeled as type 'SA'), mounted at +30'-0, for illumination of the tarmac/apron area. This is going to suffice the City of Chesterfield ordinance requirements for a fully enclosed metal halide fixture and shielding (to fulfill 'Dark Sky' environment).

Also, intend to use a fully enclosed 400 watts Metal Halide wall pack light fixture with full cut-off for general illumination around the exterior of the new hangar (labeled as type 'SB'), mounted at +11'-0".

Please feel free to give me a call with any questions.

Thank you,

Sincerely,

Basit A. Syed Senior Project Designer Farnsworth Group, Inc.

### Industrial Floodlight - 250-1500 watt HID



Widelite

Philips Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications / availability subject to change by manufacturer without notice. Please refer to detailed specification sheets for additional information and spec details. 1611 Clovis Barker Road • San Marcos, TX 78666 • Phone: 512.392.5821 • Fax: 512.753.1122 • www.wide-lite.com © 2011 Philips Group. All rights reserved.

Industrial Floodlight - 250-1500 watt HID

| Type: SA  | Job: Monsa  | nto Hangar  | Page 2 of 6   |
|---|---|---|---|
|   |   | Series/Source-Wattage       Optics (Reflector/Distribution) <sup>5</sup> M       Marine Type UL1598A Flood light <sup>1</sup> Me tal Halide <sup>2</sup> A       Specular Reflector Wide         FM-1000       B       Specular Reflector Wide         FM-1500       B       Specular Reflector Wide         Pulse Start Me tal Halide <sup>3</sup> Image: Constraint of the tail of the tail of the tail with B37 kmp uses 23° housing. HAZunit re quire s26° housing.       Image: Constraint of tail | Voltage<br>□ 120<br>□ 208<br>□ 240<br>☑ 277<br>□ 480<br>□ QV <sup>6</sup>   |
| <ul> <li>BL<sup>7</sup></li> <li>IQ</li> <li>IQ40</li> <li>FFI<sup>8</sup></li> <li>FF2<sup>8</sup></li> <li>IB<sup>9</sup></li> <li>CO<sup>10</sup></li> <li>HAZ<sup>11</sup></li> <li>50HZ</li> </ul> | Bi-Le ve l<br>Ho t/ Co ld Quartz Re strike<br>Ho t/ Co ld Quartz Re strike<br>for Co ld We at her starts to<br>-40°C (-40°F)<br>Sing le Fuse (120/277V)<br>Do ub le Fuse (208/240/480V)<br>Le ss Ba lla st (remote mount<br>ballast)<br>Cuto ff op tic s<br>Ha zard o us Lo c ation liste d<br>50 Hz Ba lla st operation<br>(consult factory) | □       TGR       Texture d         Gray       □       FF1-KIF(F)       Single Fuse Kit (120/277V)       □       SMB 400         □       TBK       Texture d       □       FF2-KIF(F)       Double Fuse Kit (208/240/480V)       □       SMB 100         □       TBK       Texture d       □       MF1-(F)       Mastfitter       □       SMB 100         □       TDB       Texture d       □       TH+1-(F)       Io we ring Adapter<br>(Te non Hanger)       SMB 100         □       TBK       Texture d<br>Satin<br>Aluminum       □       HV-1-(F)       Io we ring Adapter<br>(Te non Hanger)       SMB 100         □       TSA       Texture d<br>Satin<br>Aluminum       □       HV-1-(F)       Wall Bac ket       □       FB1         □       TWHT       Texture d<br>White       □       WB 5-(F)       Wining Box (used with WB1 &<br>surface mounted conduit feed)       □       FK-40-(F)         □       TGN       Texture d<br>White       □       PX-1-(F)       Cross-Arm Bac ket       □       SK 40-(F)         □       M(F)       Marine<br>Grade<br>finish;       □       AL-4F       Auxiliary Polymer Lens (23" housing)       ☑       SK 40-(F)         □       AL-4F       Auxiliary Polymer Len  | <ul> <li><sup>9</sup> Shock<br/>Mounting<br/>Bracket<br/>(23" housing)</li> <li>0<sup>9</sup> Shock<br/>Mounting<br/>Bracket<br/>(26" housing)</li> <li>Fat Base Mount</li> <li>Photocell<br/>Receptacle<br/>Mounting<br/>Bracket</li> <li>O Cutoff Shield<br/>(23" housing)</li> <li>F) Cutoff Shield<br/>(26" housing)</li> </ul> |
| <ul> <li>IG</li> <li>PB(X)</li> <li>EPXY-C'</li> <li>EPXY-C'</li> </ul>   | Te flon bonded to<br>glass lens<br>Pre-wire d ballast<br>(X) = SO cord length in feet:<br>3, 6 or 10<br>ID-WHT White Epoxy<br>coated<br>ID-GR Gray Epoxy<br>coated  | Two-part epoxy primer and<br>a polymethane to p coat<br>especially suited formarine<br>environments and coastal<br>applications.       AIF 10-F 1/ IENS-(F) Auxiliary Lens Frame (26" housing)         AIF 10-F 1/ GIASS IV8-(F) 26" Lens Frame with louver,         applications.         (b) = Specify color.         Example: MWHT=<br>Marine Grade<br>White finish         Consult factory for color<br>availability.         PM-1         Wood Pole Mounting Kit (with one U-arm)         PM-2         Wood Pole Mounting Kit (with three U-arms)         PM-4   | <b>1)</b> = <i>k</i> ns c o <i>l</i> o r<br><b>1)</b> = <i>k</i> ns c o <i>l</i> o r<br><b>1)</b> = specify finish  |

- "M" pre fix a long with series de signates UL 1598A Marine Listed option which includes additional Marine Grade gaske ting. Unit is specially constructed with low copper content alloy (less than 0.4%) for comosion control in harsh coastal and industrial environments or where ver marine type units are required. Meets U.S. Coast Guard measible in plasme time time on plase time. specifications for marine type applications.
- 2) Wattages listed assume the use of c lear lamps. Coated lamps also available for 1000W metal halide.
- For a c e ptable performance, no te position orientation specific nature of Pulse Start Lamps. Operation of Pulse Start lamps in other than recommended burning positions 3)
- may result in signific antly reduced performance. Consult factory to determine if a suitable Pulse Start Lamp is available for the intended application.
- 4) In 1000W HPS units, the standard SO cord from ballast to optic head is replaced with flex conduit. Less ballast options and accessories are not available.
- 5) A and Breflectors are of Specular Miro 4 aluminum; C and D reflectors are of Hammertone Miro 9 aluminum. Curves reflect coated lamp performance.
- 6) Allows field selection of 120/208/240/277V. (No 480V). Certain options may require voltage selection as well.

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- Suitable for HPS in any aiming position.
- 8) Fusing not a vailable on MF series (marine listed) units.
- 9) Remote mount ballasts options and accessories are not available with 1000W HPS or on MF series (marine listed) units.
- 10) Available with Band D reflectors only.
- 11) HAZ listing available on MF units only, 400W and 1000W o nly
  - **PHILIPS WideLite**

Industrial Floodlight - 250-1500 watt HID

#### Job: Monsanto Hangar Туре: SA

| Doom Corood C  | $) \rightarrow + \rightarrow$ |                    |          |         | Max     |              | Horizonta                     | IX Vortical                 |
|----------------|-------------------------------|--------------------|----------|---------|---------|--------------|-------------------------------|-----------------------------|
| Dearn Spread L | Jala                          |                    |          |         | Candle  | HxV          | 10%                           | 50%                         |
|                | Reflec                        | ctorType           | Source   | Wattage | Power   | NEMA         | Field Angle                   | Beam Angle                  |
|                | Α                             | Specular Wide      | MHcoated | 1000W   | 43,000  | 7 x 7        | 147° x 140°                   | 90° x 49°                   |
|                | В                             | Specular Medium    | MHclear  | 1000W   | 249,000 | 3 x 4        | 38° x 62°                     | 14° x 34°                   |
|                |                               |                    | MIT      | 1000W   | 351,000 | 3 X 4        | 38° X 62°                     | 14° x 34°                   |
|                |                               |                    | MHcoated | 1000W   | 79,000  | 6 X 7        | 127° x 133°                   | 36° x 44°                   |
|                |                               |                    | PSclear  | 250W    | 52,000  | $3 \ge 4$    | 38° x 62°                     | 14° x 34°                   |
|                |                               |                    |          | 400W    | 90,000  | $3 \ge 4$    | 38° x 62°                     | 14° x 34°                   |
|                |                               |                    |          | 1000W   | 260,000 | 3 x 4        | 38° x 62°                     | 14° x 34°                   |
|                |                               |                    | HPSclear | 400W    | 117.000 | 3 x 4        | 39° x 53°                     | 15° x 26°                   |
|                |                               |                    |          | 1000W   | 236,000 | 5 x 5        | 88° x 87°                     | 13° x 41°                   |
|                | С                             | Diffused Very Wide | MHclear  | 1000W   | 58,000  | 7 x 6        | 137° x 129°                   | 83° x 37°                   |
|                |                               |                    |          | 1500W   | 82,000  | 7 x 6        | 137° x 129°                   | 83° x 37°                   |
|                |                               |                    | MHcoated | 1000W   | 37,000  | 7 x 7        | 150° x 144°                   | 93° x 55°                   |
|                |                               |                    | PSclear  | 250W    | 52,000  | 7 x 6        | 137° x 129°                   | 83° x 37°                   |
|                |                               |                    |          | 400W    | 90,000  | 7 x 6        | 137° x 129°                   | 83° x 37°                   |
|                |                               |                    |          | 1000W   | 260,000 | 7 x 6        | $137^{\circ} \ge 129^{\circ}$ | 83° x 37°                   |
|                |                               |                    | HPSclear | 400W    | 26,000  | 7 x 6        | 137° x 125°                   | 105° x 35°                  |
|                |                               |                    |          | 1000W   | 50,000  | $7 \ge 7$    | 138° x 135°                   | 85° x 58°                   |
|                | D                             | Diffuse d Wide     | MHclear  | 1000W   | 133.000 | 5 x 5        | 93° x 76°                     | 28° x 36°                   |
|                |                               |                    |          | 1500W   | 187,000 | 5 x 5        | 93° x 76°                     | 28° x 36°                   |
|                |                               |                    | MHcoated | 1000W   | 37,000  | $7 \ge 7$    | $150^{\circ} \ge 144^{\circ}$ | 93° x 55°                   |
|                |                               |                    | PSclear  | 250W    | 52,000  | 5 x 5        | 93° x 76°                     | 28° x 36°                   |
|                |                               |                    |          | 400W    | 90,000  | $5 \times 5$ | 93° x 76°                     | 28° x 36°                   |
|                |                               |                    |          | 1000W   | 260,000 | $5 \ge 5$    | 93° x 76°                     | $28^{\circ} \ge 36^{\circ}$ |
|                |                               |                    | HPSclear | 400W    | 26,000  | 7 x 6        | 137° x 125°                   | 105° x 35°                  |
|                |                               |                    |          | 1000W   | 50,000  | $7 \times 7$ | 138° x 135°                   | 85° x 58°                   |

### Distribution Guide & Ballast Data 1,4,5

| Source<br>Type <sup>(1)</sup>   | Catalog<br>Number                        | Reflector<br>Type             | Iamp<br>Envelope         | .ies<br>File Name                   | ANSI<br>Code        | Line Current<br>120 / 208 / 240 / 277 / 480   | Line<br>Watts |
|---------------------------------|--|-------------------------------|--------------------------|-------------------------------------|---------------------|---|---------------|
|                                 | FM-1000                                  | В                             | BI56                     | fm 100b ss.ie s                     | M47 / H36           | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                   | 1080          |
|                                 | <b>FM-1000</b>                           | С                             | BI56                     | fm 100c ss.ie s                     | M47 / H36           | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                   | 1080          |
| Char                            | <b>FM-1000</b>                           | D                             | BI56                     | fm 100d ss.ie s                     | M47 / H36           | 9.2 / $5.6$ / $4.7$ / $4.1$ / $2.4$           | 1080          |
| Iamps                           | FM-1500                                  | В                             | BI56                     | fm 150b ss.ie s                     | M48                 | 14.0 / 8.0 / 7.1 / 6.1 / 3.5                  | 1625          |
| F                               | <b>FM-1500</b>                           | С                             | BI56                     | fm 150c ss.ie s                     | M48                 | 14.0 / 8.0 / 7.1 / 6.1 / 3.5                  | 1625          |
|                                 | FM-1500                                  | D                             | BI56                     | fm 150d ss.ie s                     | M48                 | 14.0 / 8.0 / 7.1 / 6.1 / 3.5                  | 1625          |
| MIT                             | FM-1000                                  |                               | BI56                     | fmc 10a ss.ie s                     | M47 / H36           | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                   | 1080          |
| Controd                         | <b>FM-1000</b>                           | В                             | BI56                     | fmc 10b ss.ie s                     | M47 / H36           | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                   | 1080          |
| Iamns                           | <b>FM-1000</b>                           | С                             | BI56                     | fmc 10c ss.ie s                     | M47 / H36           | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                   | 1080          |
| in mp5                          | FM-1000                                  | D                             | BI56                     | fmc 10d ss.ie s                     | M47 / H36           | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                   | 1080          |
|                                 | FP-400                                   | В                             | BI37                     | fp 40b ss.ie s                      | M135 / M155         | 4.0 / 2.2 / 1.9 / 1.8 / 1.0                   | 456           |
| -                               | FP-400                                   | С                             | BI37                     | fp 40c ss.ie s                      | M135 / M155         | 4.0 / 2.2 / 1.9 / 1.8 / 1.0                   | 456           |
| PS                              | FP-400                                   | D                             | BI37                     | fp 40d ss.ie s                      | M135 / M155         | 4.0 / 2.2 / 1.9 / 1.8 / 1.0                   | 456           |
| Lamps                           | FP-1000                                  | В                             | BI37                     | fp 100b ss.ie s                     | M141                | 9.0 / 5.2 / 4.5 / 3.9 / 2.4                   | 1080          |
| minpo                           | FP-1000                                  | С                             | BI37                     | fp 100c ss.ie s                     | M141                | 9.0 / 5.2 / 4.5 / 3.9 / 2.4                   | 1080          |
|                                 | FP-1000                                  | D                             | BI37                     | fp 100d ss.ie s                     | M141                | $9.0 \ / \ 5.2 \ / \ 4.5 \ / \ 3.9 \ / \ 2.4$ | 1080          |
|                                 | FS-400                                   | В                             | FD18                     | fs40b ss ie s                       | S51                 | 41/25/21/19/11                                | 467           |
|                                 | FS-400                                   | Ē                             | ED18                     | fs40c ss.ie s                       | S51                 | 4.1 / 2.5 / 2.1 / 1.9 / 1.1                   | 467           |
| HPS                             | FS-400                                   | D                             | ED18                     | fs40d ss.ie s                       | S51                 | 4.1 / 2.5 / 2.1 / 1.9 / 1.1                   | 467           |
| Clear                           |  | _                             |                          |                                     |                     |   |               |
| Lamps                           | HS-1000                                  | В                             | E25                      | ts100b ss.ie s                      | S52                 | 9.5 / 5.5 / 4.8 / 4.2 / 2.5                   | 1100          |
|                                 | HS-1000                                  | C                             | E25                      | ts100c ss.ie s                      | S52                 | 9.5 / 5.5 / 4.8 / 4.2 / 2.5                   | 1100          |
|                                 | HS-1000                                  | D                             | E25                      | fs100d ss.ie s                      | S52                 | 9.5 / 5.5 / 4.8 / 4.2 / 2.5                   | 1100          |
| 1) The FSeriesc<br>wattages and | an accommodate a<br>1 lamps. Consult fac | a vanie ty of othe r<br>torv. | 4) LER value<br>Standard | esand efficienciesare not<br>LE-5B. | published. See NEMA | FPA Effective Deviacted Area in               | E+ 2          |

MH = Me tal Halide, PS = Pulse Start Me tal Halide, HPS = High Pressure Sodium.

3) All ballasts are CWA (Constant Wattage Autotransformer).

5) Intended aiming and possible lamp orientation restrictions should be considered when selecting flood light.

in Ft Effective Proje 23'' housing 1.85 26'' housing 2.93

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Page 3 of 6

Industrial Floodlight - 250-1500 watt HID

| pe:                              | SA  | Job: Monsanto Hangar  |   |  |   | Page 4 of 6  |  |  |  |
|----------------------------------|---|---|---|--|---|--|--|--|--|
| ptior                            | n Details   | (Factory Installed)   |   |  |   | L.   |  |  |  |
| <b>BL</b><br>Note:               | Bi-Level<br>Suitable for H<br>Consult fac ta<br>with Me tal Ha          | PS in any aiming position.<br>ry when specifying dimming<br>vlide .   | Bi-Level provides h<br>with up to 50% pov<br>over network avoi      | igh / low level of lamp output<br>werconsumption. Zeю сюss-<br>ds strobing and lamp dюpout.  | LOW HICH  |  |  |  |  |
| <b>IQ</b><br>No te :             | Hot/Cold (<br>Standard 150<br>bayonet bas<br>Combine d Q<br>lamp wattag | Quartz Restrike<br>watt (120V) double contact<br>e socket.<br>uartz wattage may not exceed HID<br>e.                        | LQ - Provides Lite M<br>Lite Matic Operati                          | Latic operation for fixtures with 1<br>ion   | 20V ormulti-tap ballasts.   |  |  |  |  |
| [Q40                             | Hot/Cold (<br>WeatherS  | Quartz Restrike for Cold<br>tarts to -40°C (-40°F)  | Normal Start: Main<br>and Quartz lamps<br>both energized.           | Main Iamp Reaches Approximately<br>40% of Rated Output: Quartz lamp<br>auto matic ally extinguishes (combine-<br>lamp cuments never exceed that of<br>main lamp at 100% output). | When Arc Extinguished: Main<br>Auxiliary quartz lamp of Re<br>d automatically energized when lar<br>power is restored.              | Lamp Reaches 40%<br>ated Output: Quartz<br>np automatically<br>extinguishes. |  |  |  |
| <b>F- F1</b><br>F- F2<br>No te : | Single Fuse<br>Double Fus<br>Fusing not ave<br>Fordering QV             | : (120V/277V)<br>se (208V/240V/480V)<br>ailable on MFseries (marine listed) units.<br>7 ballast, voltage must be specified. | Fuses are KIK/KL/<br>otherwise specific                             | X30 amp unless<br>ed.  |   | ¢  |  |  |  |
| <b>IB</b><br>No te :             | Less Ballas<br>Remote mou<br>available with                             | t (remote mount ballast)<br>nt ballast options and accessories are not<br>h 1000W HPS or on MFseries (marinelisted) units.  | Optic unit with m<br>assembly.<br>Requires mounting                 | ounting arms shipped withou<br>accessory MF-1, TH-1, HV-1, SM  | t standard integral mastfittera<br>B-400 or SMB-1000 (shipped sepa  | nd ballast<br>.rately).  |  |  |  |
| C <b>O</b><br>No te :            | CutoffOp<br>Available with  | tic s<br>h Band D re fle c tors only.   | For applications v<br>Requires use of pro                           | whene glane control is needed<br>opercutoff shield accessory: SK   | 40-(F) or SK-100-(F) (shipped sepa  | arately).  |  |  |  |
| AZ                               | Ha za rd o us   | Location Listed   | Class I Division 2, Groups A, B, C, D                               |  |   |  |  |  |  |
|                                  | Limite d to   | 400W and 1000W units only.  | Catalog No.   | Measured Max. Internal<br>Operating Temperature  | Measured Max. External<br>Operating Temperature   | TRating  |  |  |  |
|                                  | Available (<br>(See Listing   | on <b>MF</b> (marine listed) units only.<br>on page 1.)   | MFM-1000<br>MFP-400<br>MFP-1000*<br>*The mal limits re q<br>MFS-400 | 339°C<br>316°C<br>339°C<br>uire 26" housing for MFSe ries 10<br>374°C  | 163°C<br>131°C<br>163°C<br>000W PS unit with UL844 liste d Hi<br>110°C  | TI<br>TI<br>TI<br>AZoption rating.<br>TI                                     |  |  |  |
|                                  | Class I, Divis<br>Groups A, H   | sion 2,<br>3, C and D.  | MFS-1000<br>Note: The classifica<br>such are as is sole             | 373°C<br>Data supplied by Texas Research<br>tion of an are a as to class, division<br>by the judge ment of the owner, ins  | 123°C<br>123°C<br>1 Institute, Inc., corrected to 23°C.<br>2 and groups and the use of UL844<br>urance carrier and the authority ha | TI<br>liste d luminaire s i<br>wing jurisdic tion.                           |  |  |  |
| 60HZ                             | 50 Hz Balla   | st Operation (consult factory)  | Specified for appli   | ic ations (outside the U.S.) where 5   | 0 Hertz operation is standard.  |  |  |  |  |
| G                                | Te flon Bon   | ded to Glass Lens   | 5 MILTe flon® bond  | ed to standard glass lens.   |   |  |  |  |  |
| B(X)                             | Pre-wire d h ft: $(\mathbf{X} = 3, 6)$                                  | oallast, specify length of SO cord in<br>Gor 10)  | Allows wining conn<br>mounting accesso                              | ections to be made in remote<br>nies such as WB1 wall bracket.   | mo unte djunc tion box. Use ful wi  | th various   |  |  |  |
| 9PXY-<br>9PXY-                   | CTD-WHT<br>CTD-GR   | White Epoxy Coated<br>Gray Epoxy Coated   | Durable coating o   | ffers protection against mildly a  | cidic oralkaline conditions.  |  |  |  |  |

Accessory Details (Field Installed - Shipped Separately)

| F-F1-KIT-(F)  | Sing le Fuse Kit (120V/277V)   | Consists of 1 or 2 fuse holdens and 1 or 2 KIK 30 amp fuses. Field in plate. <i>Fusing not available with MF series (marine listed) units.</i>  | nstalled on wining access           |
|---|--|---|-------------------------------------|
| F-F2-KIT-(F)  | Double Fuse Kit (208V/240V/480V)   |   | (IP) = specify finish               |
| MF-1-(F) Mas<br>Note:<br>Remote mou<br>with 1000W f | stfitter<br>unt ballast options and accessories are not available<br>HPS or on MFseries (marine listed) units. | C a st a luminum mastfitter for 2-3/8" O.D. pipe tenon. For<br>use with remote mounted ballast on all FSeries models.<br>(Requires a vertical tenon height of 4-5/8" minimum)<br>(P) = specify finish | 7.13"<br>(18.09 cm)<br>Set<br>Screw |

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Industrial Floodlight - 250-1500 watt HID

| pe: SA                   | Job: Monsanto Han  | gar   | Page 5 of   |
|--------------------------|--|---|---|
| <b>TH-1-(F)</b><br>Note: | Lowering Adapter (Tenon Hanger)<br>Remote mount ballast options and accessories<br>are not available with 1000W HPS or on<br>MF series (marine listed) units.<br>(F) = spec ify finish | Cast aluminum hanger tapped for 1-1/4" NPT conduitor pipe.<br>Equips flood lights with remote mounted ballasts for use on<br>standard lowering devices.<br>Mounting arms provided with fixture.<br>(Requires a vertical tenon length of 4-5/8" minimum)   |   |
| <b>HV-1-(F)</b><br>Note: | Thunion Base<br>Remote mount ballast options and accessories<br>are not available with 1000W HPS or on<br>MF series (marine listed) units.<br>(F) = spec ify finish                    | Cast aluminum trunion base bracket<br>calibrated for horizontal adjustment.<br>For use with remote mounted ballast.   | 4.94" (12.55cm)<br>4.94" (12.55cm)  |
| WB-1-(F)                 | Wall Bracket<br>(19) = specify finish  | Cast a luminum wall bracket for vertical surfaces<br>only. Designed to permit mounting of flood lights<br>on flat vertical surfaces.<br>Use in conjunction with WB-5 for surface<br>mounted wiring.<br>5.63<br>(14.29<br>squa   | 9/16"<br>Dia. Hob<br>(4 Places<br>Typical)<br>"""<br>re<br>(2.59cm)<br>(21.59cm)<br>(21.59cm)<br>(21.59cm)<br>Pipe<br>Tenon<br>(5" useable<br>length)   |
| WB 5- (F)                | Wiring Box for WB-1 and surface<br>mounted conduit feed<br>(P) = specify finish  | Used in conjunction with WB1 for surface mounted<br>wiring. Tapped top, back and bottom for 3/4" (Top, Bottom<br>conduit or pipe.<br>Gasket provided for sealing surface wiring box to<br>WB-1 (wall mounting bracket).   | PT<br>Wiring<br>Inspection<br>Plate<br>3.25" Deep<br>(8.25cm)   |
| PX-1-(F)                 | C ro ss-a m Bracket<br>For installing flood lights on<br>wooden or steel c ross-a ms.<br>(P) = spec ify finish   | Cast aluminum<br>angle bracket with<br>2" pipe stub.<br>"L" base.<br>From<br>USJCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | t View Top View<br>4.50" + 1.32"<br>(11.43cm) 1.82"<br>(11.43cm) - 4.56m<br>(11.43cm) - 4.56m<br>(11.43cm) - 4.50"+<br>(11.43cm) - 4.50"+ |
| SMB-400<br>SMB-1000      | Shock Mounting Bracket<br>(23" housing)<br>Shock Mounting Bracket<br>(26" housing)   | Shock Mounting Bracket for use in applications where severe vibration may<br>be present. Secures floodlight with a remote mounted ballast less mounting<br>arms or mastfitter. Constructed of hot-dip galvanized steel with neoprene<br>pads to absorb shock. Comosion resistant assembly hardware is furnished.<br>Note: Not available with 1000W HPS or on MF series (marine listed) units. |   |
| FB-1                     | Flat Base Mount  | Cast a luminum mounting bracket for installing<br>flood lights on flat horizontal surfaces.<br>For use with 2-3/8" OD pipe tenon (by others).<br>Limit tenon height to 8.0" (20.32cm).  | 2.0"<br>(5.00cm)<br>(3.91/20cm)<br>(19.37cm)<br>(3.91/20cm)<br>(19.37cm)<br>(3.91/20cm)<br>(3.91/20cm)<br>(3.91/20cm)<br>(3.91/20cm)<br>(3.91/20cm)   |
| PCM-1                    | Photocell Receptacle<br>Mounting Bracket   | Bracket with standard twist-lock receptacle<br>formodels with integral ballasts.<br>Threads into 1/2" NPT hole in ballast base or<br>mastfitter.<br>(Photocell not included.)   |   |

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### Bulletin No. WLSP0124I1111

# PHILIPS WideLite

### Industrial Floodlight - 250-1500 watt HID

| Туре:              | SA Job: Mo  | onsanto Hangar   |   | Page 6 of 6                    |
|--------------------|---|--|---|--------------------------------|
| SK-40-(<br>SK-100- | (F) Cutoff Shield f<br>- (F) Cutoff Shield f                          | òr 23"housing<br>òr 26"housing                                 | Cutoff shield provides precise vertical cutoff without distortion of lateral pattern.<br>(F) = Specify finish.  |                                |
| AL-4-F<br>AL-10-1  | Auxilia ny Polym<br>F Auxilia ny Polym                                | ner Lens for 23"housing<br>ner Lens for 26"housing             | 1/4" thick impact-resistant polymerlens provides<br>additional protection of the glass lens.<br>Fumished with mounting hardware and standoffs.  |                                |
| AL-4-F<br>AL-10-1  | • <b>L' IENS- (F)</b> Auxilia ry<br>F• <b>L' IENS- (F)</b> Auxilia ry | y Lens Frame for 23"housing<br>y Lens Frame for 26"housing     | Designed for use with colored lenses. Formed aluminum frame<br>isolates the auxiliary lens from heat source for longer life.<br>Gasketed to minimize particulate and moisture entry.<br>May be used as a snoot when installed without a lens.<br>Mounting hardware included.<br>(F) = Specify finish. |                                |
| AIF 10-            | -F-L/GLASS-LV8-(F)  | Auxiliary Lens Frame with<br>8-lite internal louver            | For additional namow beam glane control, specify the auxiliary len<br>8-lite internal louver. Available for 26" housing only. (F) = Specify   | ns frame with the<br>y finish. |
| IENS-A             | IFF4-GIASS (color   | Colored Auxiliary Lens<br>for 23"housing                       | Colored a uxiliary lens (fully tempered glass).<br>Requires the use of the a uxiliary lens frame.   |                                |
| IENS-A             | IFF10-GIASS (colo   | <ul> <li>Colored Auxiliary Lens<br/>for 26" housing</li> </ul> | (color) = Lens color. (Consult factory to specify color of glass)<br>Note : Colore d lens reduces efficiency.   | le ns.)                        |
| PM-1               | Wood Pole Mounting<br>Shipping wt.: 6 lbs(2                           | Kit with one Uam<br>2.7 kg)                                    | For mounting<br>luminaires with<br>mastfitters to 6.0" FM-1 FM-1<br>to 12.0" O.D.   | -2                             |
| PM-2               | Wood Pole Mounting<br>Shipping wt.: 9 lbs (4                          | Kit with two Uams<br>4.05 kg)                                  | wood poles.<br>12.0"<br>(30.48c m)<br>12.<br>(30.48c m)<br>12.<br>(30.48c m)  | 0"<br>(km)                     |
| <b>PM-3</b>        | Wood Pole Mounting<br>Shipping wt.: 12 lbs                            | Kit with three Uams<br>(5.4 kg)                                | PM-3  | 4                              |
| PM-4               | Wood Pole Mounting<br>Shipping wt.: 15 lbs                            | Kit with four U-ams<br>(6.8 kg)                                | 12.0" 1<br>(30.48c m) (30   | 2.0"<br>(48cm)                 |



PHILIPS WideLite

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#### DESCRIPTION

The Streetworks Wal-Pak Series of wall luminaires 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. IP65 Rated. UL and 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 # | WKP-40-M-CWI-7-FC-BZ | Туре |  |
|-----------|----------------------|------|--|
| _         |                      | CD   |  |
| Project   | MONSANTO HANGAR      | 30   |  |
|           |                      |      |  |
| Comments  |                      | Date |  |
| Comments  |                      | Date |  |

### 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 IP65 ingress protection rated. Not recommended for car wash applications.

#### 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 3kV surge test and is Class 2 rated for 120-

277V with an operating temperature of -30° to 60°C. Wal-Pak LED systems maintain greater than 70% of the initial light output after 50,000 hours of operation. UL listed HID high power factor ballasts are Class H insulation rated (metal halide: 150, 175, 200, 250, 320, 350, 400W [-30°C / -20°F], (high pressure sodium: 50, 70, 100, 150, 250, 400W [-40°C / -40°F]. High efficiency HID ballasts are available in 120V, 208V, 240V, 277V, 347V and 480V. Compact fluorescent high power factor ballasts are Class P insulation rated for 120-277V and have a starting temperature of -18°C / 0°F.

### Optical

Highly reflective anodized aluminum reflectors provide high efficiency illumination. Optical assemblies include impact resistant borosilicate refractive glass, Solite™ flat diamond patterned glass and full cutoff IESNA compliant configurations. Patent pending, solid state LED luminaires

FULL CUTOFF

16-5/8" [422mm]

Small 15" [381mm]

Large 16-2/8" [414mm]

10'

[254mm]

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are thermally optimized with 2400 or 4000 lumen package modules. HID models are offered in horizontal medium or mogul-based metal halide or high pressure sodium lamps. T6 ceramic metal halide and 4-pin compact fluorescent lamp models offer high efficiency energy-saving illumination.

### **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

Housing and door are protected with 5-stage TGIC dark bronze polyester powder coat paint. Premium TGIC power coat finishes withstand extreme climate changes while providing optimal color and gloss retention. Optional premium colors are available.

DARK SKY FCO

FL LENS

16-5/8" [422mm]

Small 11-3/8" [290mm]

Large 12-6/8" [323mm]







### WKP WAL-PAK

2400 - 4000 Lumen LED 39 - 400W High Pressure Sodium Pulse Start Metal Halide Metal Halide Ceramic Metal Halide 32 - 140W Compact Fluorescent

### WALL MOUNT LUMINAIRE

### TECHNICAL DATA

UL and cUL Wet Location Listed IP65 Rated 40°C Maximum Ambient Temperature External Supply Wiring 90°C Minimum EISA ©, ARRA, Title 20 Compliant

### ENERGY DATA

10"

[254mm]

Reactor Ballast Input Watts 50W HPS NPF (58 Watts) 70W HPS NPF (82 Watts) 100W HPS NPF (118 Watts) 150W HPS NPF (175 Watts) High Reactance Ballast Input Watts 50W MP HPF (69 Watts) 70W MP HPF (94 Watts) 100W MP HPF (129 Watts) 150W MP HPF (185 Watts) CWA Ballast Input Watts 200W HPS HPF (250 Watts) 200W MP HPF (227 Watts) (2) 250W MP HPF (283 Watts) © 320W MP HPF (365 Watts) 🖲 350W MP HPF (400 Watts) © 400W HPS HPF (465 Watts) 400W MP HPF (452 Watts) ©

SHIPPING DATA

 Approximate Net Weight:

 32-42 lbs. (15-19 kgs.)
 ADW100024

 2012-05-23 13:21:15









### ORDERING INFORMATION

Sample Number: WKP10PC2GL



NOTES: 1 LED Packages are 67 CRI/5000K

2 MH products available for non-US markets only. 3 MH and MP 175W and below are medium base all others are mogul base. 250 and 350W MP are not Title 20 Compliant. 400W MP must be ordered with Lamp option to be Title 20 Compliant. 4 Electronic Ballast Standard with CF.

5 Available with 70-150W Pulse Start or CM Lamps.

b Available with //b-1b0W Yulse Start or CM Lamps.
6 Small housing offered for 175W and below, CF and LED Models. Large Housing for 200-400W. FL Door not available with CF or 200-400W Models.
Polycarbonate lens available in models up to 175W max including LED. Polycarbonate lens not available with full cutoff door or FL models. Solite stipple glass is standard for FL lens. Clear glass is standard for full cutoff door types except for LED. LED full cutoff door is standard with solite glass.
7 Specify voltage. 1 - 120, 277 or 347V, 2 - 208 or 240V
8 SGL optional on HID and CF models only.

9 Clear Glass not available with LED.

| LAMP TYPE                | WATTAGE  |
|--------------------------|--|
| Pulse Start Metal Halide | 50, 70, 100, 150, 200, 250, 320, 350, 400W                     |
| Metal Halide             | 175, 250, 400W   |
| High Pressure Sodium     | 50, 70, 100, 150, 250, 400W                                    |
| T6 Ceramic Metal Halide  | 39, 70, 100, 150W  |
| Compact Fluorescent      | (1) 32, (1) 42, (1) 57, (1) 70, (2) 32, (2) 42, (2) 57, (2) 70 |
| LED                      | 2A=28W, 4A=40W   |
|                          |  |

