

Memorandum Department of Planning, Public Works & Parks

To: Planning and Public Works Committee

From: Mara M. Perry, Senior Planner

Date: 05/10/2012

RE: Chesterfield Blue Valley, Proposed Lot 10 (Premium Outlets): A Site

Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a 50.72 acre tract of land zoned "PC" Planned Commercial District in the northeast corner of the development located on the north side of Olive Street Road, west of its intersection with Chesterfield Airport

Road.

Summary

The Clayton Engineering Company and The Collaborative, Inc., on behalf of Simon Property Group and the Woodmont Company, has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design.

The plans were reviewed at the Planning and Public Works Committee meeting on April 19, 2012. At that meeting, a recommendation to hold was approved by a vote of 4-0 for the applicant to address concerns with the Architectural Elevations.

The applicant worked with Staff to address the concerns expressed by the Planning and Public Works Committee and submitted amended plans on Friday, May 4, 2012.

In your packet are a set of new architectural elevations and architectural renderings in a 11" x 17" color format. The drawings show both the prior submission to the Planning Commission next to the revised submission. In addition, a new aerial perspective was generated to show the relationship of all the buildings as a whole with the updated materials and landscaping around the edges of the buildings. On each page is a bullet point reference to what changes have been made to the architectural elevations.

Attached please find a revised Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, Architect's Statement of Design, Architectural renderings and perspectives.

Respectfully submitted,

Mara M. Perry, AICP Senior Planner

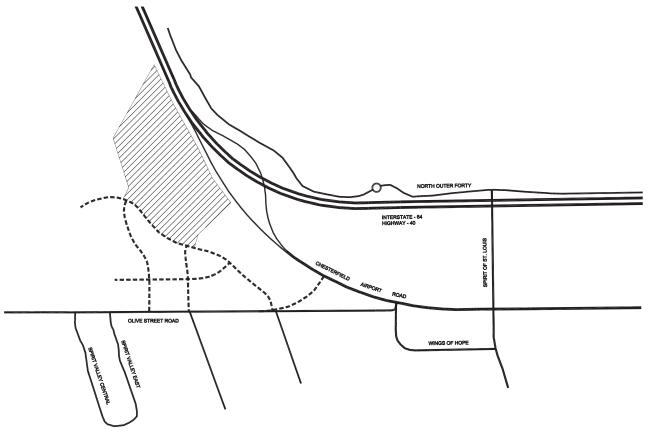
Cc: Michael G. Herring, City Administrator

Rob Heggie, City Attorney

Michael O. Geisel, Director of Planning, Public Works & Parks Aimee Nassif, Planning and Development Services Director

ST. LOUIS PREMIUM OUTLETS

ZONED: PC PLANNED COMMERCIAL DISTRICT



ST. LOUIS PREMIUM OUTLETS BUILDING DATA:

GROSS FLOOR AREA	A (GFA)
BUILDING 1 GFA =	49,213 SF
BUILDING 2 GFA =	37,699 SF
BUILDING 3 GFA =	36,341 SF
BUILDING 4 GFA =	40,411 SF
BUILDING 5 GFA =	53,141 SF
BUILDING 6 GFA =	19,598 SF
BUILDING 7 GFA =	78,844 SF
BUILDING 8 GFA =	74,851 SF
TOTAL BLDG GEA -	300 000 SE

BUILDING GFA (includes 11,800 SF restaurant) = OUTDOOR RESTAURANT SEATING AREA = TOTAL BUILDING GFA = Percentage of restaurant use 12,800/391,098 TOTAL PARKING PROVIDED: REGULAR SPACES (9'x19') = 20. PLUS 1 FOR EACH 100 OVER 1.000

LOADING CALCULATIONS: 10'x40' LOADING SPACES REQUIRED:



Edward R. Dabler, Jr. MO LS-1956

PROPERTY DESCRIPTION

A tract of land in part of Lot 1 of the BOUNDARY ADJUSTMENT PLAT OF LOT 1 OF MCGRATH PLAZA, per the plat thereof recorded in Plat Book 358, Page 273 of the St. Louis County records and part of Lot 1 through 8 of the Partition of the Estate of Conrad Kroenung as said lots were established by Report of Commissioners recorded August 13, 1879 in Book 4, Page 583 of the St. Louis County (now St. Louis City) records, being located in Township 45 North, Range 3 East, St. Louis County, Missouri and being described as follows:

PREMIUM OUTLETS

WOODMONT OUTLETS

4/27/2012 11141

Commencing at the easternmost corner of said Lot 1, being a point in the west line of Highway 40 TR; thence along the west line of said Highway 40 TR; on the said Highway 40 TR; on th West, 102.58 feet to a point, and North 32° 06' 57" West, 287.20 feet to the point of beginning of the herein described tract of land; thence leaving the west line of

The Woodmont Company and Simon Property Group, Inc., owners under contract of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisioned chapter of the dity of Chesterfield Ordinance No.

do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of the duty of

The Woodmont Company	Simon Property Group, Inc.
State of Missouri)) ss. County of St. Louis)	
	, 2012, before me personally appeared to me known, who, being by me duly sworn in, did say that s of The Woodmont Company, and that the seal affixed to the poration, and that said instrument was signed on behalf of sa
	rd of directors, and acknowledged said instrument to be the fi
IN WITNESS WHEREOF, I have smy commission expires:	signed and sealed the foregoing the day and year first above
notary public	
State of Missouri)) ss.	
County of St. Louis)	
On this day of	, 2012, before me personally appeared
foregoing instruments is the seal of said corporation by authority of its	to me known, who, being by me duly sworn in, did say that s of Simon Property Group, Inc., and that the seal affixed to the of said corporation, and that said instrument was signed on b s board of directors, and acknowledged said instrument to be
foregoing instruments is the seal said corporation by authority of its act and deed of said corporation.	of Simon Property Group, Inc., and that the seal affixed to the of said corporation, and that said instrument was signed on be board of directors, and acknowledged said instrument to be signed and sealed the foregoing the day and year first above

Aimee E. Nassif, AICP, Planning and Development Services Director

4. Lighting Plan

2. THE REQUILATORY 100-YEAR WATER SURFACE ELEVATION FOR THE SITE IS CONTROLLED BY THE CHESTERFIELD VALLEY STORM WATER MASTER PLAN MODEL. THE LOWEST FLOOR OF ANY BUILDING NEEDS TO BE AT LEAST I FOOT ABOVE THE ELEVATION OF THE 100-YEAR WATER SURFACE OF ANY CHANNEL WITHIN 200 FEET OF THE BUILDING FOOTFMAT. THE 100-YEAR HIGH WATER ELEVATION VARIES FROM 402.48 AT THE SOUTH EAST CORNER OF THE SITE TO 400.44 AT THE SOUTH WEST CORNER OF THE SITE. Call Before you DIG 1-800-344-7483

All proposed improvements shall be constructed to City of Chesterfield, Monarch Chesterfield Levee District, the U.S. Army Corps of Engineers, and MSD Standards.

Au omerisions snown are to trace or curo uniess omerwise specimed.

All grading and storm water collection shall be per MSD, MODOT, the City of Chesterfield, the Monarch Chesterfield Levee District, and the U. S. Army Corps of Engineers.

Storm water shall be discharged at adequate natural discharge points. Site drainage is to Master Drainage Channels via swales.

The location and height of any light standards on site shall be as approved by the Planning Commission on the Site Development Plan and shall be in conformance with the City of Chest

be cleaned prior to the end of each work day.

14. Erosion and silitation control shall be installed prior to any grading and be maintained throughout the project until acceptance of the work by the Owner and/or controlling regulatory agency and adequat vegetative growth insures no future erosion of the soil. 15. The final location of biofiltration shall be subject to change following final design and review by MSD and subject to MSD regulations at the time of review. 16. Storm water and roadway improvement contributions shall be paid prior to building permit issuance. An approved Site Development Section Plan will need to be submitted for assessment of those contributions.

Buildings or structures other than freestanding project identification signs, light standards or flag poles: 100 feet from the northern boundary line of the "PC" District N34°00'30"E. 30 feet from the eastern boundary line of the "PC" District.

50.72 Acres

390 098 sf

914,324 sf

704.365 sf

Tree Preservation Plan: There are no existing trees on the site, so no separate tree preservation plan will be provided. Site access is via a new 5 lane subdivision road (Outlet Boulevard) which connects to an improved Olive Street Road.

HLOUD / HIGH WATTER NOTES:

1. SUBJECT PROPERTY LIES WITHIN FLOOD ZONES AE (SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD, BASE FLOOD ELEVATIONS DETERMINED), ZONE AH (SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD). FLOOD DEPTHS OF 1-3 FEET, USUALLY AREAS OF FONDING: BE ALLOWED AREAS OF TON THE PROPERSON OF THE

50 72 acres (2 209 363 sf) 100%

MISSOURI AMERICAN WATER CO. 727 CRAIG ROAD ST. LOUIS, MO. 63141 SUE MOYNIHAN (314) 991-3404, x2306

2350 MARKET ST. ST. LOUIS, MO. 63103

METROPOLITAN ST. LOUIS SEWER DISTRICT

CHESTERFIELD MONARCH LEVEE DISTRICT C/O FULLER, MOSSBARGER, SCOTT & MAY ENGINEERS, INC. 1856 CRAIG PARK COURT ST. LOUIS, MO. 63146 (314) 878-6800

xing settatoxs:

10 feet from the principal internal street (Outlet Boulevard).

20 feet from the eastern boundary of the "PC" District (1-64).

20 feet from the northern boundary line of the "PC" District N34"00"30"E.

 10 feet from internal lot lines. 0 feet for shared driveway:

Overall Site Area =

Zoning: PC - Planned Com

Open Space Calculation (30% Min.): Overall Site Area

Total Building Area
Gallery Roof Area - No Walls
Total Paved Parking Area

Total Open Space

CHESTERFIELD MONARCH FIRE PROTECTION DISTRICT 155 LONG ROAD CHESTERFIELD, MO. 63005

ROCKWOOD R-6 SCHOOL DI 111 EAST NORTH STREET EUREKA, MO. 63025

SBC 14780 MANCHESTER ROAD BALLWIN, MO. 63011

FLOOD / HIGH WATER NOTES:

Total Hardscape Area w/in Mega Pad 169,121 sf

Maximum Building Height per Ordinance 2612: 4 stories or 65 feet.

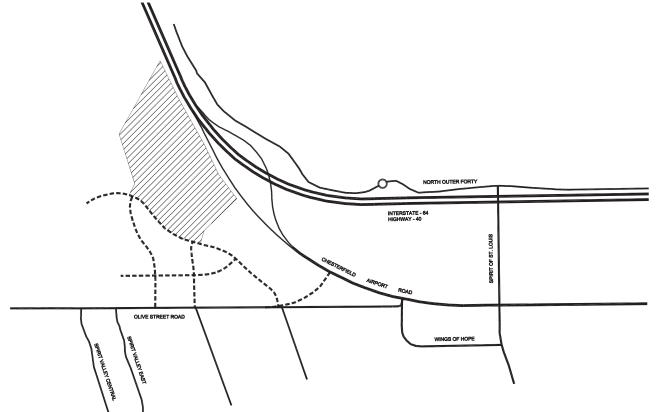
No grade shall exceed 3:1 slope.

7 No step allowed at accessible entrance doors

All dimensions shown are to face of curb unless otherwise specified

Simon Property Grou 105 Eisenhower Parkway Roseland, NJ 07068 ST. LOUIS ₽ ₹¥ Wood The 2100 \ SITE DEVELOPMENT PLAN SHEET INDEX: Cover Sheet Site Plan Landscape Plan

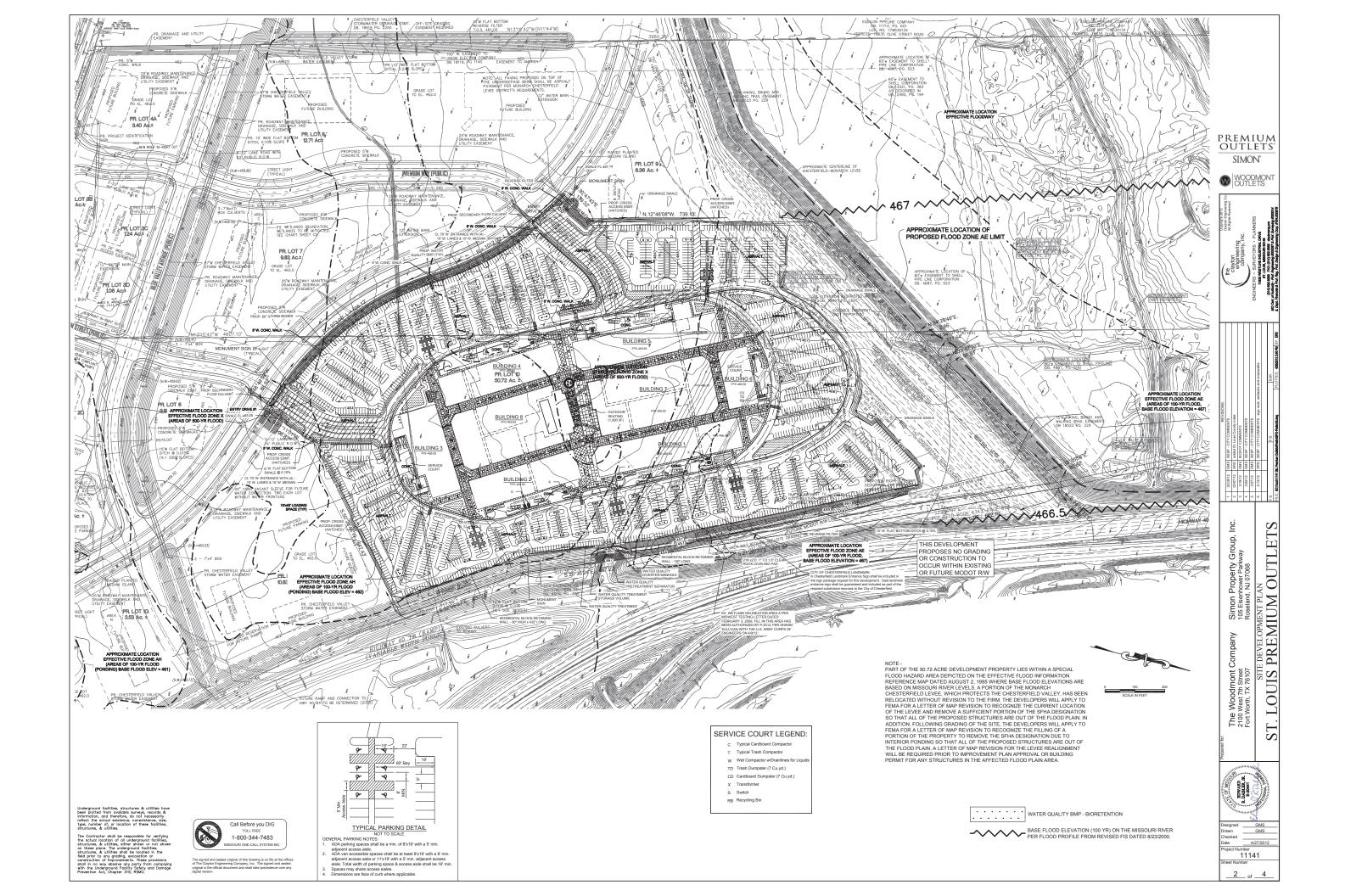
CITY OF CHESTERFIELD, MISSOURI **ORDINANCE NO. 2612**

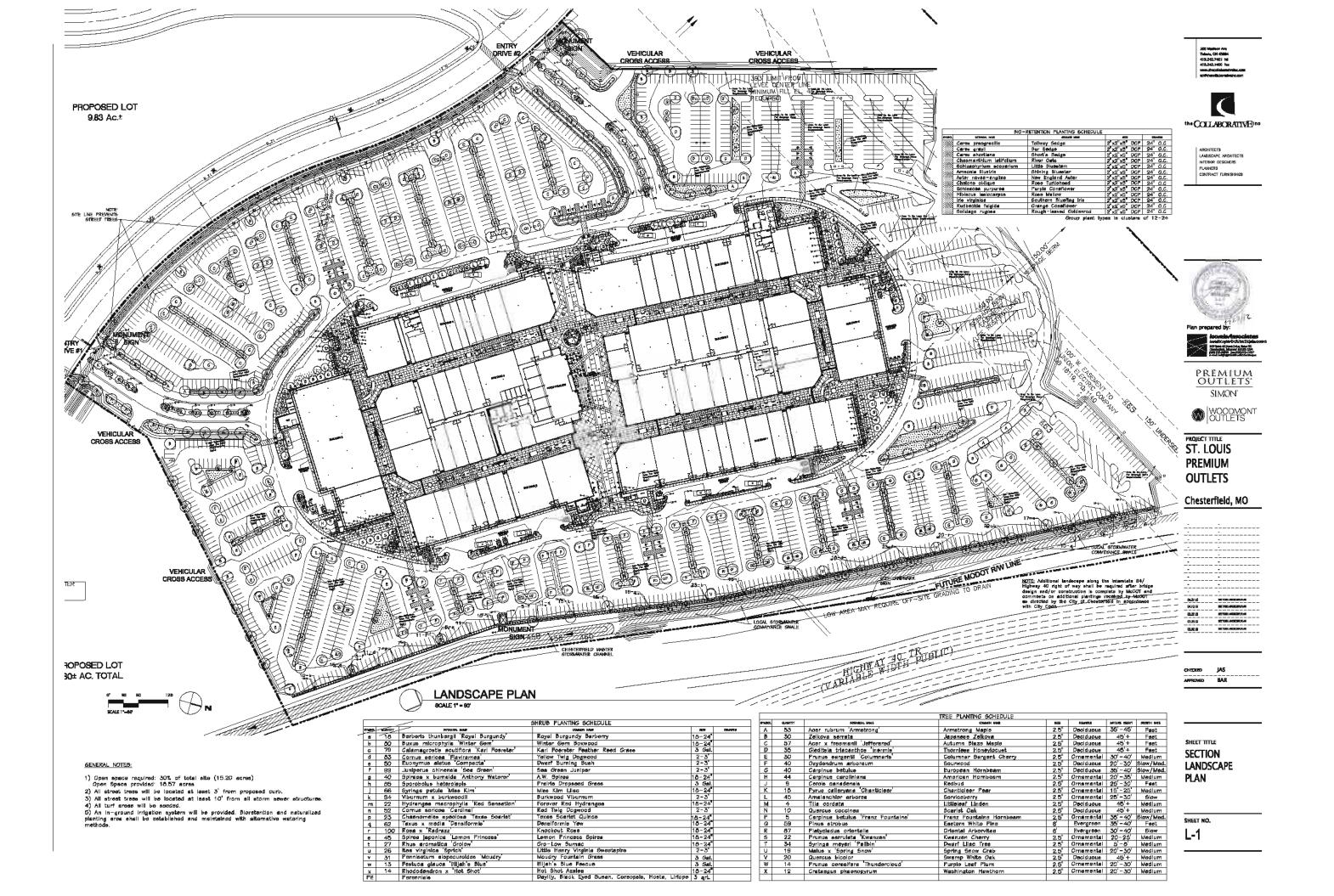


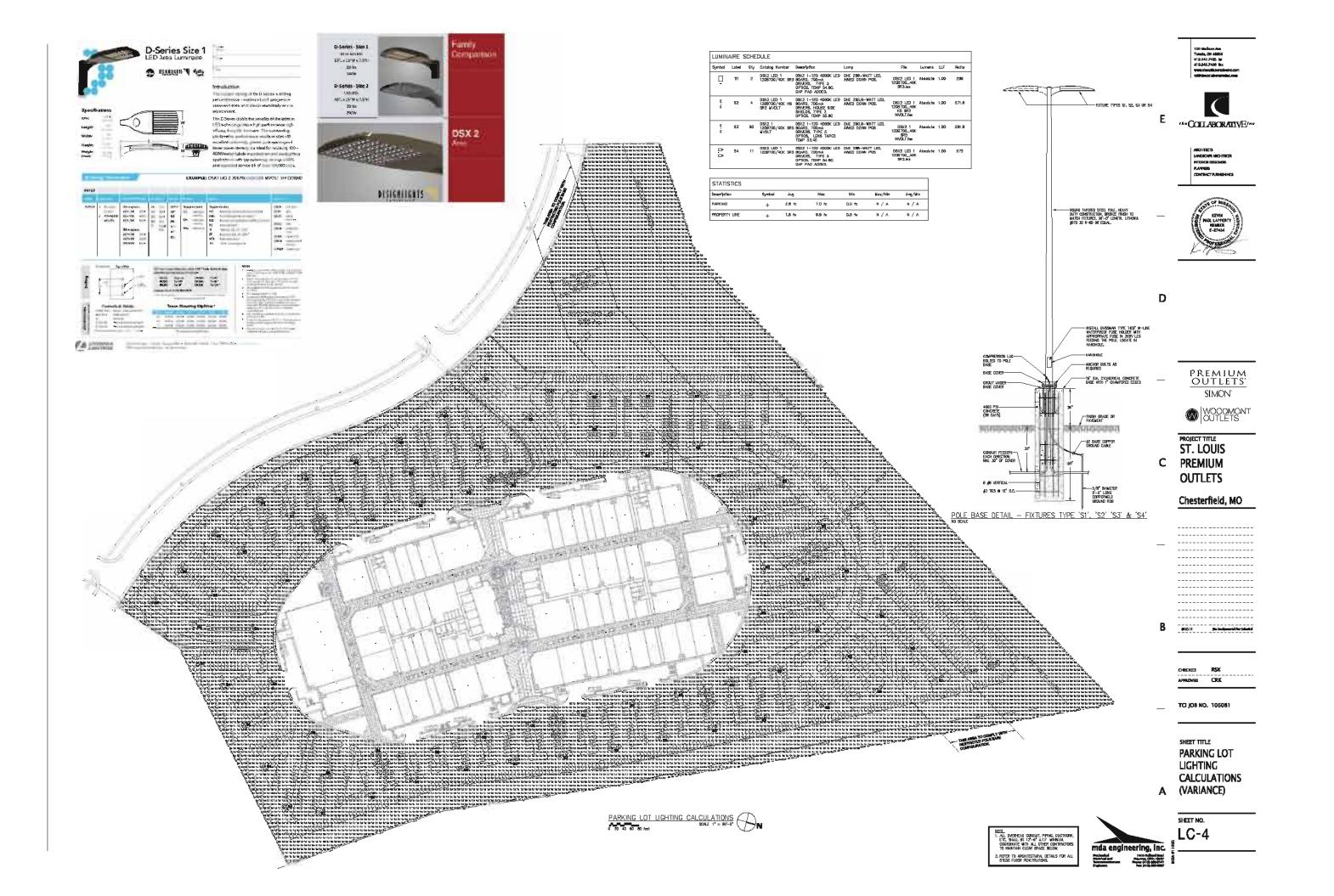
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BUILDING 6 GFA =	19,598 SF
BUILDING 7 GFA =	78,844 SF
BUILDING 8 GFA =	74,851 SF
TOTAL BLDG GFA =	390,098 SF
PARKING CALCULATE	ONS:

OR 31 SPACES REQUIRED ADA SPACES (8'X19' MIN.) PROVIDED = 48 SPACES







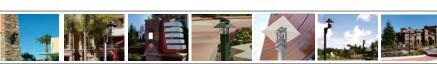


PKSA/PKSP

Parkway Square[™] – Sconce

1	2	3		4		5
FIVTUDE	LAMP/BALLAST	DECORATIVE SCREEN	OPTIONS		COLOR	
FIXTURE			GENERAL	HOOD	SCREEN	





PARKWAY SQUARE FAMILY OF FIXTURES





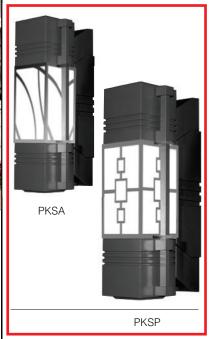




Features

- Six configuration, including down beam, down spread, up beam, up spread, down beam/up spread, up beam/down spread, and egress
- Available with highly efficient LEDs
- Six decorative screen options
- Tamper resistant hardware
- Cast aluminum struts
- Full cutoff options
- EISA compliant
- IP65 rated for horizontal configurations and IP66 rated for vertical configurations
- · Powder coat finish in 13 standard colors with a polymer primer sealer

PAKWAY SQUARE SCONCE



JOB INFORMATION	
TYPE	

JOB NAME

LAMP (BY OTHERS)

CUSTOMER

DATE

Consult factory for any custom/ modified products

APPROVALS

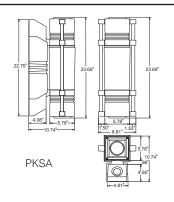


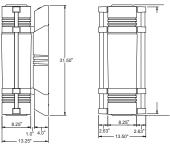
1	2	3		4		5
FIVTUDE	LAMP/DALLACT	DECORATIVE SCREEN	OPTIONS		COLOR	
FIXTURE	LAMP/BALLAST		GENERAL	HOOD	SCREEN	

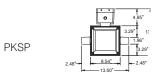
1.	FIXTURE		
	ACCENT (SMALL) SCALE		
	PKSA DB	Small - Down beam & egress	
	PKSA DS	Small - Down spread & egress	
\Box	PKSA UB	Small - Up beam & egress	
	PKSA US	Small - Up spread & egress	
\Box	PKSA DBUS	Small - Down beam/up spread & egress	
<u>u</u>	PKSA UBDS	Small - Up beam/down spread & egress	
	PEDESTRIAN (MEDI	UM) SCALE	
	PKSP DB	Large - Down beam & egress	
	PKSP DS	Large - Down spread & egress	
\Box	PKSP UB	Large - Up beam & egress	
	PKSP US	US Large - Up spread & egress	
	PKSP DBUS	Large - Down beam/up spread & egress	
	PKSP UBDS	Large - Up beam/down spread & egress	

_	PKSP UBDS	Large - Up beam/down spread & egress
2.	LAMP/BALLAST	
	15LED-WW	15 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. For PKSA DS/US only.
	15LED-BW	15 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. For PKSA DS/US only.
	18LED-WW	18 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. For PKSP DS/US only.
	18LED-BW	18 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. For PKSP DS/US only.
	24LED-WW	24 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. For PKSA DBUS/UBDS only.
	24LED-BW	24 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. For PKSA DBUS/UBDS only.
	30LED-WW	30 light emitting diode array. Warm white (3500K). Class 2, 120 thru 277 volt. For PKSP DBUS/UBDS only.
	30LED-BW	30 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. For PKSP DBUS/UBDS only.
	24PLL	24 watt PL-L compact fluorescent electronic 120/277 volt ballast. Specify wattage. <i>PKSA only</i> .
	35R111	35 watt electronic metal halide R111, 120/277 volt. PKSA only.
	20MMC	20 watt electronic metal halide ballast, 120 thru 277 volt. Use PGJ5 base, MiniMastercolor lamp. <i>PKSA only.</i>
	39ММС	39 watt electronic metal halide ballast, 120 thru 277 volt. Use PGJ5 base, MiniMastercolor lamp. <i>PKSA only.</i>
	50PLL	50 watt PL-L compact fluorescent electronic 120/277 volt ballast. Specify wattage. <i>PKSP only</i> .
	39MHT6EB	39 watt electronic metal halide, 120 thru 277 volt ballast. Use G12 base, T-6 ceramic lamp. <i>PKSP only.</i>
	70MHT6EB	70 watt metal halide ballast, 120/277/347 volt ballast. Use G12 base, T-6 ceramic lamp. <i>PKSP only.</i>
	35R111	35 watt electronic metal halide R111, 120/277 volt. PKSP only.
	70R111	70 watt electronic metal halide R111, 120/277 volt. <i>PKSP only</i> .
		All fixtures prewired for 277 volts unless specified Lamps not included (except II) and

All fixtures prewired for 277 volts unless specified. Lamps not included (except IL and LED options). All applicable ballasts are EISA compliant. Mini MasterColor® is a registered trademark and CosmoPolis™ is a trademark of Philips Lighting®.







JOB INFORMATION TYPE
JOB NAME
LAMP (BY OTHERS)
CUSTOMER
DATE

Consult factory for any custom/ modified products

APPROVALS



16555 East Gale Ave. City of Industry | CA 91745 P 626.968.5666 | F 626.369.2695 www.aal.net | Copyright © 2012

PKSA/PKSP

Parkway Square[™] – Sconce

1	2	3		4		5
ENTUDE	LAMP/DALLACT	DECORATIVE SCREEN	OPTIONS		COLOR	
FIXTURE	LAMP/BALLAST		GENERAL	HOOD	SCREEN	

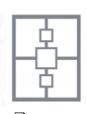
5. DECORATIVE SCREENS (OPTIONAL)

Painted to match fixture. Also available in stainless steel or copper. Not available with horizontal or LED optics.













■ DSIN Infinity design painted to match fixture.

DSOF Offset design painted to match fixture.

■ DSWH Wheat design painted to match fixture.

☐ DSTR Trio design painted to match fixture.

☐ DSSH Shutter design painted to match fixture.

☐ DSCS Custom design* painted to match fixture.

6. OPTIONS

GENERAL

- ☐ DS39 Dual source - 39 watt mini mastercolor. Specify primary or secondary
- BBU Integral battery backup
- NEG No egress lamp. Opening is sealed with a cap and painted to match fixture.

DECORATIVE SCREEN

Screen in brushed copper ☐ SSP Screen in brushed stainless steel

DI MDC

7. COLOR

AWT	Arctic White
BLK	Black
MTB	Matte Black
DGN	Dark Green
DBZ	Dark Bronze
WRZ	Weathered Bronze
BRM	Metallic Bronze
VBL	Verde Blue
CRT	Corten
MAL	Matte Aluminum

 MDG	Medium Grey
ATG	Antique Green
LGY	Light Grey
SPP	Salt and Pepper (premium)
SFM	Seafoam (premium)
WCP	Weathered Copper (premium)
SHK	Shamrock (premium)
RAL COLOR	Provide a RAL 4 digit color number
CUSTOM COLOR	Please provide a color chip for matching

Madium Cray

JOB INFORMATION **TYPE** JOB NAME LAMP (BY OTHERS) **CUSTOMER** DATE Consult factory for any custom/ modified products

APPROVALS



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PAGE 3 OF 4

1	2	3		4		5
FIVTUDE	LAMP/DALLACT	DECORATIVE		OPTIONS		COLOR
FIXTURE	LAMP/BALLAST	SCREEN	GENERAL	HOOD	SCREEN	

HOUSING

Parkway Square housings shall be cast aluminum. A356 alloy, free of any porosity, foreign materials, or cosmetic fillers. The vertical lens shall be opal, semi translucent high impact injection molded lighting grade acrylic and shall not be field replaceable. The vertical struts shall be cast aluminum and painted to match the fixture. The lens shall be sealed to the housing with a molded silicone gasket on the top and bottom. The optical lens frame shall be secured with four captive socket cap screws and shall be sealed with a one piece memory retentive, molded silicone gasket. The lamp compartment shall have a molded silicone plug to completely seal the optical system from insects or dirt emanating from the electrical box or conduit. Four stainless steel screws shall release the canopy to allow electrical access. All internal and external hardware shall be stainless steel and zinc

REFLECTOR

The reflector is formed aluminum with bright dip anodized finish for pedestrian scale and bead blasted finish for accent scale fixtures.

ELECTRICAL

The ballast or LED driver electrical assembly shall be integral to the fixture and mounted to the cast canopy, the electrical assembly shall be prewired with a guick disconnect plug and removable by loosening two screws. All metal halide ballasts shall be electronic. T6 metal halide lamps shall use G12 sockets; R111 lamps shall use GX8.5 sockets; PL-L fluorescent lamps shall use 2G11 sockets. LED drivers shall have a drive current of 350mA. Standard color temperatures for Nichia NS6L183 and NS6W183 LEDs shall be 3500K and 5100K. The ballast or LED driver shall accept an input voltage of 120 through 277 volts and shall be wired at the factory for 277 volts, unless specified. The MR16 lamp for emergency egress feature shall be included and powered by 120 volt input transformed into low-voltage (12 volt) by the electronic transformer (included). The MR16 lamp shall use a miniature bi-pin base.

SAFETY

The fixture shall include an integral secondary source to provide path of egress illumination from building to the public way. The hidden MR16 lamp, powered as a remote head is able to be angle up to 15° in either direction.

WALL PLATE

Wall plate shall be secured into wall over j-box and shall be wired to the power circuit. Fixture shall be attached to the wall plate by four set-screws.

FINISH

Fixture finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture is listed with ETL for outdoor, wet location use and shall conform to UL1598 and Canadian CSA Std. C22.2 no.9. IP65 rated for horizontal configurations and IP66 rated for vertical configurations.

WARRANTY

Fixture is warranted for three years. Driver components carry the driver manufacturer's limited warranty. Any unauthorized return, repair, replacement or modification of the Product(s) shall void this warranty. This warranty applies only to the use of the Product(s) as intended by AAL and does not cover any misapplication or misuse of said Product(s), or installation in hazardous or corrosive environments. Contact AAL for complete warranty language, exceptions, and limitations.

ТҮРЕ
JOB NAME
LAMP (BY OTHERS)
CUSTOMER
DATE
Consult factory for any custom/ modified products
APPROVALS

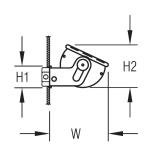
JOB INFORMATION

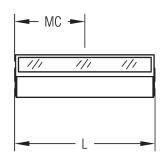


SPI Echo Round 9.0 Exterior Wall EEW9501 Forward Throw

JOB NAME	TYPE
	'C'
MODEL NO.	
LAMP	







Dimensions

W	L	MC	H1	H2
11.4 in	27.5 in	13.7 in	4.2 in	8.3 in
(29 cm)	(69.8 cm)	(34.8 cm)	(10.7 cm)	(21.1 cm)

Description

Echo Round 9.0 is designed to address larger, high-ceiling spaces such as atriums, gymnasiums, libraries, natatoriums and open offices. Its vast lamping range and premium light control provides sufficient and visually uniform illumination to surfaces. Round's proportionate size and basic shape integrates seamlessly into a space.

Features

- Formed stainless steel yoke brackets equip the fixture with durable mounting components that will not rust or corrode.
- Standard thermoset polyester powder coat paint provides durable protection in a palette of color options. Custom colors available upon request.
- Extruded aluminum construction provides durable protection for internal components and is recyclable.
- Cast aluminum end caps protect internal components and are recyclable.
- Field adjustable housing locks into position, enabling precise fixture alignment for high-quality design performance.
- · Tempered glass lens protects HID and tungsten halogen lamp engines.
- Premium 95% reflective aluminum is utilized in the highly-efficient and effective reflector design.

Weight

Consult Factory.

Contents
Features
Technical Notes
Ordering Information
Finshes

EEW9501 Technical Notes

Accessories

• Only one louver option can be specified per fixture.

Construction

• Luminaires over 27" in length have a two-piece yoke assembly.

Electrical

- · Black weatherproof power cord with watertight fittings.
- HID versions have integral ballasts eliminating the need for remote mounting, simplifying installation.
- Thermally protected ballast limits operating temperature.
- Class "C" sound rated ballast.
- ETL listed to UL standards (US and Canada) for use in wet locations.

Finish

 Housing and mounting components painted to match, unless otherwise specified.

Mounting

• Steel cover fits over standard 4" octagonal junction box.

EEW9501 Forward Throw

Model Number/Style	Select Lamping	_	Select Voltage	Select Lamp Options
EEW9501 [FT]				

Not all options are available in all configurations, consult factory for details.

1M250PS 1PSMH250/BT28/M0G ITL62257 1M315PS 1PSCMH315/T9/PGZ18 1M320PS 1PSMH320/ED28/M0G 1M350PS 1PSMH350/ED28/M0G ITL62257	Lamping		Photometry	
1M315PS 1PSCMH315/T9/PGZ18 1M320PS 1PSMH320/ED28/MOG 1M350PS 1PSMH350/ED28/MOG ITL62257	1M175PS	1PSMH175/BT28/MOG/U	ITL62257	
1M315PS 1PSCMH315/T9/PGZ18 1M320PS 1PSMH320/ED28/M0G 1M350PS 1PSMH350/ED28/M0G ITL62257	1M250PS	1PSMH250/BT28/MOG	ITL62257	
1M350PS 1PSMH350/ED28/M0G ITL62257	1M315PS	1PSCMH315/T9/PGZ18		
	1M320PS	1PSMH320/ED28/MOG		
	1M350PS	1PSMH350/ED28/MOG	ITL62257	
1M400PS 1PSMH400/ED28/M0G ITL62257	1M400PS	1PSMH400/ED28/MOG	ITL62257	

120V	120 Volt
277V	277 Volt

Lamp	Options

CS	Cut-off Shield
F	Fusing

Finish must be selected.

PT473

EEW9501 Forward Throw

The finishes shown here are representations of the standard color selections available for SPI Lighting products. There may be variations in color, texture and finish between the samples shown here and the actual product finishes. If a more accurate paint color or metal finish is required, please contact us at finishes@spilighting.com.

01 ²	SuperWhite	PT021	White	PT031	Morning Light	PT041	Warm White	PT051	Putty
Г 06 1	Warm Beige	PT07 ¹	Light Taupe	PT08 ¹	Medium Taupe	PT09 ¹	Medium Gray	PT10 ¹	Dark Gray
1111	Black	PT12 ¹	Dark Chocolate	PT13 ¹	Warm Gray	PT14 ¹	Light Gray	PT15 ¹	Sage
T16 ¹	Spruce	PT17 ¹	Red	PT18 ¹	Deep Red	PT19 ¹	Blue	PT20 ¹	Dark Green
Γ 21 ⁴	Pearl White	PT22 ⁴	Platinum	PT27 ⁴	Deep Copper	PT28 ⁴	Dark Stainless	PT29 ⁴	Red Brass
T31 ⁴	Medium Bronze	PT32 ⁴	Dark Bronze	PT33 ¹	Dark Blue	PT40 ¹	Yellow	PT41 ¹	Orange
PT42 ¹	Sky Blue	PT43 ¹	Teal	PT44 ¹	Green	PT45 ¹	Purple	PT46 ³	Aluminum

PT49³

Bronze

¹Textured ²Glossy ³Metallic Textured ⁴Metallic Glossy

Deep Red Brass

Custom colors available, consult factory for details.

PT48³

Brass



FEATURES & SPECIFICATIONS

INTENDED USE— For building- and wall-mounted applications.

CONSTRUCTION — Rugged, die-cast, single-piece aluminum housing. Die-cast door frame has a 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone.

OPTICS — Segmented reflectors for superior uniformity and control. Reflectors are interchangeable. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw).

ELECTRICAL — Ballast: 50W-150W utilizes a high reactance, high power factor ballast. Metal halide 150W and below are standard with pulse-start technology. 35S utilizes a reactance high power factor ballast. 175W utilizes a constant-wattage autotransformer ballast. CSA, NOM or INTL required for probe start shipments outside of the US for 175M. Not available 175M SCWA. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired.

Quick disconnect plug easily disconnects reflector from ballast. Ballasts are 100% factory-tested.

Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated.

Finish: Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder finish. Additional architectural colors are available. Striping is also available.

INSTALLATION — Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

LISTINGS — UL Listed (standard). CSA Certified (see Options). Suitable for wet locations (damp location listed in lens-up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 rated. 25°C ambient. ELED: U.S. Patent No. 7,737,640.

Note: Specifications subject to change without notice.

Catalog Number	
Notes	
Туре	'D'



Decorative Wall-Mounted Lighting

WST

METAL HALIDE: 50W-175W HIGH PRESSURE SODIUM: 35W-150W

Specifications
Length: 16-1/4 (41.2)
Depth: 9-1/8 (23.2)
Overall Height: 7-1/4 (18.4)
*Weight: 30 lbs (13.6 kg)

7-1/4 (18.4) (18.4) (41.2) - 9-1 (23.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options** (shown in bold).

Example: WST 100M FT TB LPI

WST				MD								
Series	Wattage/so	urce		Distr	ibution	Voltage	Ballast		Mountir	ng	Options	
WST	High pressure sodium 3551 50S 70S 100S 150S	Metal halide 50M 70M 100M 150M 175M ²	Ceramic metal halide 50MHC 70MHC 100MHC 150MHC	FT MD WT	Forward throw Medium throw (coated lamp std.) Wide throw	120 208³ 240³ 277 347 TB ⁴ 23050HZ ⁵	(blank) CWI Pulse SCWA	Magnetic ballast Constant wattage isolated Start Super CSA pulse start ballast ⁶	, , ,	Surface mount separately ⁷ Surface mount back box Uptilt 5 degrees	Shipped i SF DF DC12 2DC12 DC2012 2DC2012	nstalled in fixture Single fuse (120, 277, 347V) ⁸ Double fuse (208, 240V) ⁸ Emergency circuit 12-volt (35W lamp included) ⁹ Emergency circuit 12-volt (two 35W lamps included) ⁹ Emergency circuit 12-volt (20W lamp included) ⁹ Emergency circuit 12-volt (two 20W lamps included) ⁹

Options (continued)	ions (continued)							8
ELED Emergency LED secondary source battery pack with a delay (-4°F min. operating temperature) ¹⁰ 2ELED Emergency LED secondary source (two modules) bat pack with time delay (-4°F min. operating temperature) DFL Diffusing lens EC Emergency circuit ^{11, 12} IBS Internal backlight shield ¹³ PE Photoelectric cell-button type (n/a TB) ¹⁴	erv	Quartz restrike system ^{11, 15} Wet location door for up orientation CSA certified NOM certified ⁵ International shipment for 175M	<u>Ship</u> p WG VG	oed separately ¹⁴ Wire guard Vandal guard	(blank) DSST DNAT DWHG DBLB CR CRT	Dark bronze, textured Sandstone, textured Natural aluminum, textured White, textured Black, textured Corrosion-resistance Non-stick protective coating ¹⁷	LPI L/LP	Lamp included Less lamp

Notes

- 1 120V
- These wattages do not comply with California Title 20 regulations.
- 3 Must specify CWI for use in Canada.
- 4 Optional multi-tap ballast (120, 208, 240, 277V); (120, 277, 347V in Canada; ships as 120V/347V).
- 5 Consult factory for available wattages
- 6 Available with 150M or 150MHC only
- 7 May be ordered as an accessory with prefix "WS". Must specify finish.
- 8 Not available with DC options.
- 9 Not available with ELED, SF, DF, EC or QRS.
- Maximum wattage 100M, 70S. Must specify 120V or 277V. Not available with QRS, EC or DC.
- 11 Maximum allowable wattage lamp included.
- Not available with ELED, QRS or DCs.

- Not available with medium throw (MD, MDU, MDU5) distributions.
- Must be ordered with fixture; cannot be field installed.
 Not available with ELED, EC or DCs.
- 16 See www.lithonia.com/archcolors for additional color options.
- 17 Black finish only.
- 18 Must be specified. L/LP not available with MHC.

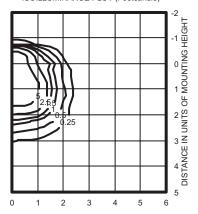


Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

^{*}Weight as configured in example below.

WST 150MHC FT LTL11069P

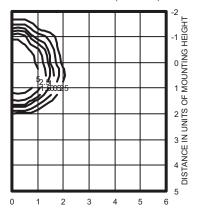
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 14000 rated lumens. Luminaire Efficiency: 52.9%

WST 150MHC MD LTL11068P

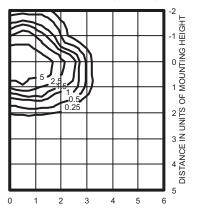
ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 12500 rated lumens. Luminaire Efficiency: 60.2%

WST 150MHC WT LTL11070P

ISOILLUMINANCE PLOT (Footcandle)



150W pulse start metal halide lamp, horizontal lamp orientation Footcandle values based on 12' mounting height, 14000 rated lumens. Luminaire Efficiency: 62.5%

Lamp	Initial lumens		Mounting	height	
Metal Halide		10′	12′	14′	16′
50W MH	3,900	0.43	0.30	0.22	0.17
70W MH	5,500	0.62	0.43	0.31	0.24
100W MH	8,500	0.95	0.66	0.48	0.37
150W MH	12,500	1.41	0.98	0.72	0.55
175W MH	12,800	1.44	1.0	0.73	0.56
High Pressure Sodium					
35W HPS	1,250	0.26	0.18	0.13	0.10
50W HPS	4000	0.45	0.31	0.23	0.17
70W HPS	6,400	0.72	0.50	0.37	0.28
100W HPS	9,500	1.07	0.74	0.54	0.41
150W HPS	16,000	1.80	1.25	0.91	0.70

Emergency Option Lamp Compatability										
Lamp options # of lamps/wattage	DC12	2DC12	DC2012	2DC2012	EC	ELED	2ELED			
35\$										
50S										
70S										
100S										
150S										
50M										
70M										
100M										
150M										
175M										





FEATURES & SPECIFICATIONS

INTENDED USE — For landscape and facade lighting.

CONSTRUCTION — Rugged, die-cast, single piece low copper alloy aluminum housing. Die-cast doorframe has impact-resistant, tempered, glass lens. Doorframe is fully sealed with a closed-cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder finish, with other architectural colors available, Patent No. D552,778.

OPTICS — Anodized aluminum reflectors; segmented, specular or hammertone finish for superior uniformity and control. Reflectors are interchangeable and allow for tool-less access to electrical components.

ELECTRICAL — 50W-150W utilizes a high reactance, high power factor ballast. 175W utilizes a constantwattage autotransformer ballast. Quick disconnect plug easily disconnects reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested. UL Listed. CSA, NOM or INTL $required \ for \ probe \ start \ shipments \ outside \ of \ the \ US \ for \ 175M. \ Not \ available \ with \ 175M \ SCWA. \ Ceramic \ metal$ halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired.

Socket: Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact.

INSTALLATION — Standard mounting is cast ¾" threaded knuckle. Mounting mechanism features infinite locking points for aiming precision. Optional yoke mounting available, heavy-duty compact cast aluminum yoke adaptor to maintain fixture aesthetics. Provided with painted steel yoke and three feet of 16/3 SEOOW cable.

LISTING — UL listed suitable for wet locations in all orientations. UL Listed to U.S. and Canadian safety standards (see Options). NOM Certified (see Options). IP66 rated. Canadian patent pending. Note: Specifications subject to change without notice.

Catalog Number
Notes
Type 'E'



AERIS

Architectural Floodlighting

ASF1

METAL HALIDE: 50W-175W HIGH PRESSURE SODIUM: 50W-150W

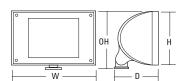
Specifications

EPA: 1.20 ft² Width: 15-1/2 (39.4) Depth: 7-5/8 (19.4) Height: 10 (25.4)

Overall Height: 10-7/8 (27.6) *Max. Weight: 20 lbs (9.1 kg)

All dimensions are inches (centimeters) unless otherwise indicated.

*Weight as configured in example below.



ORDERINGINFORMATION

For shortest lead times, configure products using standard options (shown in bold).

Example: ASF1 100M HSP TB LPI

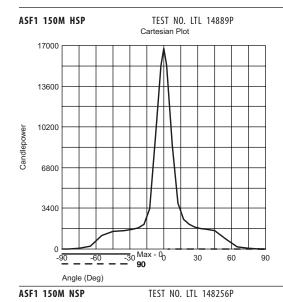
ASF1													
Series	Wattage	Distribution	Voltage	Ballast		Mounting		Options		Finish ⁹		Lamp	10
ASF1	Metal halide 50M 70M 100M 150M 175M¹ Cermamic metal halide 50MHC 100MHC 150MHC High pressure sodium 50S 70S 100S 150S	SP Spot HSP Horizontal spot NSP Narrow spot WDF Wide flood MDF medium flood VFN Vertical narrow VFW Vertical wide	120 208 ² 240 ² 277 347 480 ² TB ³ 23050HZ ⁴	CWI	Magnetic ballast Constant wattage isolated Stort Super CWA pulse start ballast ⁵	Shipped ins (blank) YK Shipped seg AFSTMTHK AFWMATHK AFTS AFTMBTHK AFWMPTHK AFWMPTHK	Threaded knuckle Yoke mount	SF DF PE CSA NOM INTL Shipped sep ASF1GS ASF1EV ASF1EV ASF1BD ASF1BVG	talled in fixture Single fuse (120, 277, 3477 n/a TB) Double fuse (208, 240, 480V n/a TB) Photoelectric cell-button type (n/a 480V or TB) ⁸ CSA certified NOM certified ⁴ Inernational shipment for 175M tarately ⁶ Glare shield (upper or bottom visor) ⁷ Eggcrate visor (black only) Full visor ⁷ Barn door ⁷ Vandal guard Full visor/vandal guard ⁷	DDBT DSST DNAT DWHG DBLB CR CRT	Dark bronze, textured Sandstone, textured Natural aluminum, textured White, textured Black, textured Corrosion resistance Non-stick protective coating (black only)	LPI L/LP	Lamp included Less lamp

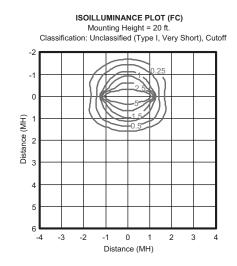
Notes

- These wattages do not comply with California Title 20 regulations.
- 2 Must specify CWI in Canada
- Optional multi-tap ballast (120, 208, 240, 277); (120, 277, 347V in Canada ships as 120/347).
- Consult factory for availability.
- Available with 150M or 150MHC only.
- May be ordered as an accessory.
- Must specify finish when ordered as an accessory.
- Must be ordered with fixture; cannot be field installed.
- See www.lithonia.com/archcolors for additional color options.
- 10 Must be specified. L/LP not available with MHC.

OUTDOOR ASF1-M-S

ASF1 Metal Halide, High Pressure Sodium Architectural Flood





139000 Cartesian Plot

139000 83400 83400 855600

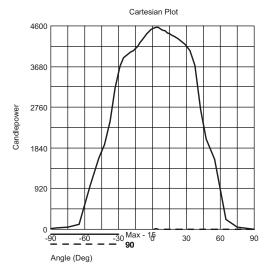
-60 - -30 Max - 00

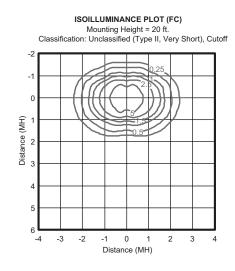
ASF1 150M WDF

Angle (Deg)

27800

TEST NO. LTL 14888P







FEATURES

OPTICAL SYSTEM

- Aluminum upper reflector coated with highly reflective white paint provides high efficiency and an evenly illuminated aperture appearance.
- Available with tempered prismatic lens (T73), flat Fresnel lens (FFL) or flat opal lens (FOL).
- Regressed white door (RW) or stepped black baffle (SB) available with white painted flange provided.
- Door is retained by self-aligning, torsion support springs, preventing gaps between door and ceiling.

MECHANICAL SYSTEM

- 16-gauge galvanized steel mounting/plaster frame with integral brackets to retain optical system.
 Maximum 1-1/2" ceiling thickness.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustment are shipped preinstalled. Post installation adjustment possible without the use of tools from above or below ceiling.
- Galvanized steel junction box with hinged access covers and spring latch. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.

ELECTRICAL SYSTEM

- Rugged aluminum lampholder housing.
- Vertically-mounted, four-pin, positive-latch, thermoplastic socket.
- Class P, thermally-protected, high power factor, electronic ballast mounted to the junction box.

LISTING

 Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and wet locations. Listed and labeled to comply with Canadian Standards. Type Catalog number

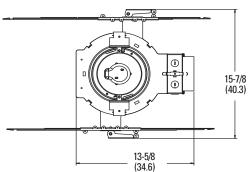
'F'

Compact Fluorescent Downlights

6" LGFV

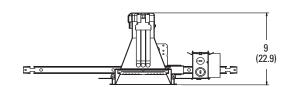
Round Lens
Wet Location
Vertical Triple-Tube Lamp

LGFV 26TRT 6RW T73 MVOLT



Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (17.8) Overlap Trim: 7-1/2 (19.1)

All dimensions are inches (centimeters).



Example:

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

LGFV Series	Wattage/Lamp	Door	Frame	S	hielding	Vo	 tage	В	allast³		Options
LGFV	18TRT' 26TRT' 32TRT 42TRT	ed do 6SB St bl	egress- I white oor epped ack affle	T73 FFL FOL	Tempered prismatic lens Flat Fresnel lens Flat opal lens	1	/OLT ² 120 277 347	(blank)	Electronic ballast standard EcoSystem electronic dimming ballast. Minimum dimming level 5%.	CP TRDA LRC ⁶ GMF GLR	Chicago Plenum Tamper-Resistant Door Assembly Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required Single slow-blow fuse (not available with MVOLT) Single fast-blow fuse (not available with MVOLT)
Multi-very voltage For add 1 120 or 2	o operate DTT 4-PIN olt electronic ballast from 120V through 27 litional ballast types, 277V only.	capable 77V, 50 o refer to	of operat r 60 Hz. Technical	ing on Bulle	any line tins tab.			ADEZ ⁴	Advance Mark X TM electronic dimming ballast; minimum dimming level 5%	WLP RIF ELR ⁷ GSKT NSD ⁸	Radio Interference Filter Emergency battery pack. Remote test switch provided Foam gasketing, ships uninstalled Sensorswitch nLight™ dimming relay
separat See Sir For cor Not ava For din	'5™ includes 9' S5 M rely). Available in 120 nply5.net for more in npatible Reloc system ailable with ELR option tensional changes re relay with one 0-10 '	or 277V formations, refer n. fer to Te	only. Not n. to Techni echnical E	availa ical B Bulletir	able in 18W. ulletins tab. us tab.			S 5⁵	Simply5 system ballast		Order as separate catalog number. SCA6 Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D,

installed. Requires additional nLight bus power supply.

25D, 30D). Ex: SCA6 10D.

20

30

Distribution curve Distribution data Output data Illuminance Data at 30" Above Floor for **Coefficient of utilization** a Single Luminaire LGFV 32TRT 6RW T73, 32TRT lamp, 1.1 s/mh, 2400 rated lumens, Test no. LTL14208 20% 50% beam angle 10% beam angle 80% 70% From 0° Ave Lumens % Lamp 50% Zone Lumens 56.1° 563 0° - 30° 408.5 17.0 50% 30% 50% 30% 50% 30% pw Inital fc fc at 70° 563 0° - 40° 600.8 25.0 .39 .38 .39 .37 .37 .36 Mount at beam Beam beam beam 15 536 150 0° - 60° 810.1 33.8 2 .36 .34 .35 .33 .34 .32 height center diameter diameter edge edge 25 449 205 0° - 90° 873.8 36.4 3 .32 .30 .32 .30 .31 .29 35 309 192 90° - 180° 0.0 0.0 .29 .27 .29 .27 .28 .26 10.0 1.0 45 171 133 0° - 180° 873.8 *36.4 .27 .24 .26 .24 .26 .24 10.1 3.1 19.4 0.6 55 83 *E fficiency .25 .22 .24 .22 .24 .21 4.3 12.3 2.1 23.5 0.4 41 .23 .20 .23 .20 .22 .20 0.3 75 .21 .18 .21 .18 .20 .18

.20 .17 .19 .17 .19 .17

10 .18 .16 .18 .16 .18

LGFV 32TRT 6RW FFL, 32TRT lamp, 1.1 s/mh, 2400 rated lumens, Test no. LTL14209

85

90

4

0

		90°	From 0°	Ave	Lumens	Zone l	Lumens	% Lamp	pf pc	80)%)%)%	50	1%			50% bear		10% bea 91.	3
100	XXXX	. /1	0	604		0° - 30°	463.7	19.3	pw	50%	30%	50%	30%	50%	30%		Inital fc	50.	fc at	J1.	fc at
100	\times	70°	5	624	58	0° - 40°	679.7	28.3	1	.45	.43	.44	.43	.42	.41		at beam	Beam	beam	Beam	beam
200	tt/ / /	∠ 60°	15	605	169	0° - 60°	914.0	38.1	2	.40	.38	.40	.38	.38	.37			diameter	edge	diameter	edge
	IXXX	,] [~]	25	517	236	0° - 90°	995.1	41.5	3	.37	.34	.36	.33	.35	.33	8	20.0	6.1	10.0	11.3	2.0
300	TIVX	∑ _{50°}	35	348	216	90° - 180°	0.0	0.0	4	.33	.30	.33	.30	.32	.29	10	10.7	8.3	5.4	15.3	1.1
	1-41 X	7 130	45	184	144	0° - 180°	995.1	*41.5	5	.30	.27	.30	.27	.29	.27	12	6.7	10.6	3.3	19.4	0.7
400	$\neg \land \bigvee$	\	55	99	90	*E	fficiency	/	6	.28	.25	.28	.25	.27	.24	14	4.6	12.8	2.3	23.5	0.5
	111	40°	65	54	54				7	.26	.23	.25	.23	.25	.22	16	3.3	15.0	1.7	27.6	0.3
500	$^{-}$ \ $^{\prime}$	1."	75	21	22				8	.24	.21	.24	.21	.23	.20						
			85	4	5				9	.22	.19	.22	.19	.22	.19						
600 ©	10° 20°	30°	90	0					10	.21	.18	.21	.18	.20	.18						

NOTES:

For electrical characteristics consult Technical Bulletins tab.

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.





Exhibitor Series

TOKISTAR® Exhibitor Series is a wet-location festoon lighting system widely used in amusement parks, shopping centers, street decorations and promenades. Exhibitor fixtures may also be surface mounted to accent rooflines and other architectural features.

Light sources include solid-state LEDs and incandescent xenon lamps, enclosed within shatterproof polycarbonate globes. These globes are injection blow-molded for a seamless appearance and excellent clarity. Each globe includes two o-rings for a secure and weatherproof seal to the socket.

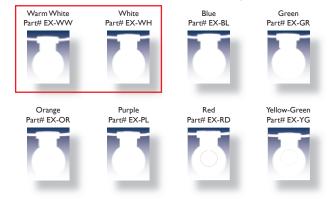
LEDs

Tokistar LEDs operate at 24 VAC and consume only 0.48 Watts. This makes them our most energy-efficient light source and dramatically increases the maximum run length of each fixture.



With incredible life ratings, LEDs are ideally suited for continuous operation in commercial applications.

LEDs shown below with frosted globes.





Xenon Lamps

For a traditional incandescent look, our wedge-base lamps create crisp pin-points of light when specified with transparent globes. These xenon-gas lamps have the apparent brightness of much higher wattage standard incandescent lamps, and significantly longer life.

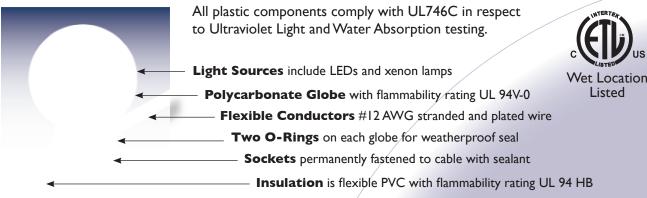
Lamp	Watts/Volts	Hours	Lumens	Color
EX-212	4.2 Watts / I2VAC	10,000	35	2550K
EX-124	7.5 Watts / 24VAC	10,000	65	2500K



In addition to clear and frosted globes, xenon lamps are available with green, amber, blue, red, and violet colored globes.

Listed

Specifications





EXBK - 12 - WW - F

How to Specify

Three key considerations in specifying an Exhibitor Lighting System are:

								_
Cable / S	Socket Color	Sock	et Spacing		LED			Globe
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Globe Color
ВК	Black	6	6" (150 mm)	ww	Warm White	0.48 W / 24 VAC	C	Clear
WH	White	12	12" (300 mm)	WH	White	0.48 W / 24 VAC	F	Frosted
		18	18" (450 mm)	BL	Blue	0.48 W / 24 VAC	G	Green
		24	24" (600 mm)	GR	Green	0.48 W / 24 VAC	A	Amber
			stom Spacing	OR	Orange	0.48 W / 24 VAC	В	Blue
		is	Available)	PL	Purple	0.48 W / 24 VAC	R	Red
				RD	Red	0.48 W / 24 VAC	V	Violet
				YG	Yellow-Green	0.48 W / 24 VAC	M	Multi-Colors
d perspect	ive when deci	ding on		(Any (Combination of C	olors is Possible)		
gs (18"-24	") are the bes	t choice	!		Xenon La	тр		
ns. Closer	spacings (6"-	12") are	9	212	2550K	4.2 W / 12VAC		
t closer vi	ewing range.			124	2500K	7.5 W / 24VAC		

I) Socket Spacing

Consider viewing distance and perspective when deciding on socket spacing. Wider spacings (18"-24") are the best choice for most festooning applications. Closer spacings (6"-12") are appropriate for applications at closer viewing range.

2) Light Source

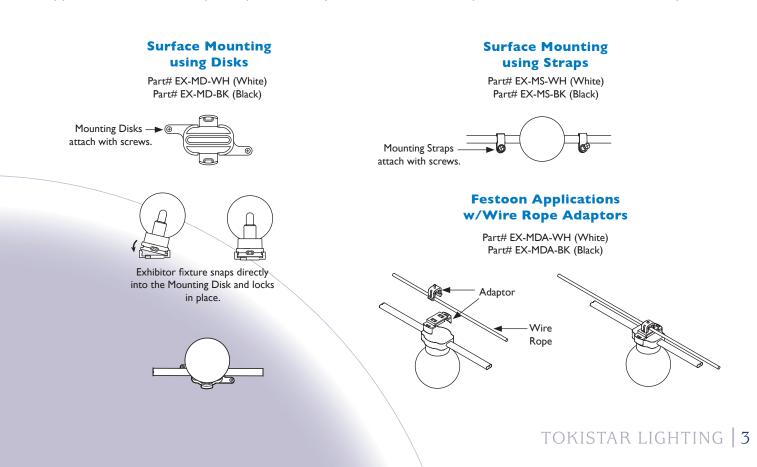
LEDs create a softer lighting effect and are the most energy-efficient choice. Since LEDs consume so little energy, they can run much greater distances from a single feed point. Xenon lamps will produce brighter distinct points of light.

3) Globe Selection

Clear globes have excellent clarity and will emphasize the distinct points of incandescent or LED light. Frosted globes will diffuse light on their entire surface. Colored globes in combination with xenon lamps create vibrant color.

Mounting Options

Exhibitor Series can be surface mounted to structures using our mounting disks or straps. For festoon applications, our wire rope adaptor securely holds each socket in place to 1/16" or 1/8" wire rope.



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Sizes and Lengths

4" (100 mm) 2.36"Ø (60 mm)

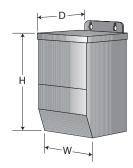
To minimize voltage drop and keep conductors safely within their ratings, do not exceed the maximum lengths shown for each independent fixture.

	Maximum Run Lengths									
	LED Xenon Lamps									
Socket Spacing	.48 Watt / 24VAC	4.2 Watt / 12VAC	7.5 Watt / 24VAC							
6" (150 mm)	250' (76 M)	24' (7 M)	32' (10 M)							
12" (300 mm)	350' (106 M)	36' (II M)	56' (17 M)							
18" (450 mm)	426' (130 M)	45' (14 M)	72' (22 M)							
24" (600 mm)	492' (150 M)	50' (15 M)	80' (24 M)							

Transformers

Tokistar transformers operate from a 120 VAC/60 Hz input and are fully dimmable. They are provided in a Nema 3R enclosure suitable for wet locations. The secondary outputs are protected by circuit breakers.

Transformers should be installed in an accessible location. Magnetic transformers generate heat and must be installed in locations where there is free air circulation.



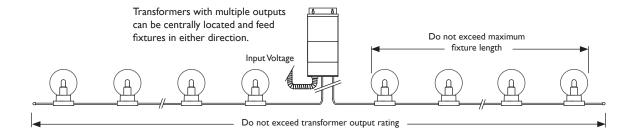
Consult factory for transformers with input voltages of 230 or 277 VAC. Sizes and weights shown are approximate and subject to change without notice.

T12 Series Transformers											
Number	Outputs	D	Н	W	Weight						
T12-100	I @ 100 Watt / 12 VAC	3.0"	9.0"	3.0"	5 lbs						
T12-150	I @ 150 Watt / 12 VAC	3.0"	9.0"	3.0"	5 lbs						
T12-250	I @ 250 Watt / I2 VAC	3.5"	9.5"	4.5"	8 lbs						
T12-300	I @ 300 Watt / I2 VAC	3.5"	9.5"	4.5"	8 lbs						
T12-500	2 @ 250 Watt / 12 VAC	4.5"	10.5"	4.5"	I2 lbs						
T12-600	2 @ 300 Watt / 12 VAC	4.5"	10.5"	4.5"	15 lbs						
T12-750	3 @ 250 Watt / 12 VAC	4.5"	10.5"	4.5"	15 lbs						
T12-1000	4 @ 250 Watt / 12 VAC	5.0"	11.5"	7.0"	28 lbs						
T12-1200	4 @ 300 Watt / 12 VAC	5.0"	11.5"	7.0"	28 lbs						

T24 Series Transformers								
Number	Outputs	D	Н	W	Weight			
T24-100	I @ 100 Watt / 24 VAC	3.0"	9.0"	3.0"	5 lbs			
T24-150	I @ I50 Watt / 24 VAC	3.0"	9.0"	3.0"	5 lbs			
T24-250	I @ 250 Watt / 24 VAC	3.5"	9.5"	4.5"	8 lbs			
T24-300	I @ 300 Watt / 24 VAC	3.5"	9.5"	4.5"	8 lbs			
T24-500	I @ 500 Watt / 24 VAC	4.5"	10.5"	4.5"	12 lbs			
T24-600	I @ 600 Watt / 24 VAC	4.5"	10.5"	4.5"	15 lbs			
T24-750	2 @ 375 Watt / 24 VAC	4.5"	10.5"	4.5"	15 lbs			
T24-1000	2 @ 500 Watt / 24 VAC	5.0"	11.5"	7.0"	28 lbs			
T24-1200	2 @ 600 Watt / 24 VAC	5.0"	11.5"	7.0"	28 lbs			

The recommended maximum distance between the fixture and the transformer varies based on the load of each fixture and the size of secondary wire feeding the fixture. Electrical engineers and contractors can calculate these distances.

Should you need guidance, consult the factory.



TOKISTAR® LIGHTING INC.

1015 E. Discovery Lane • Anaheim, CA 92801



Parkway Square[™] – Medium Housing Scale

1	2	3	4	5	6			7	8
LUMINIAIDE	HOOD	OPTION	LAMB/DALLACT	DECORATIVE		OPTIONS		COLOR	MOUNTING
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	SCREEN	GENERAL	HOOD	SCREEN		
PKWM									





PARKWAY SQUARE FAMILY OF FIXTURES









'S PKWB

PKSA/PKSF

Features

- Four optical systems, including LED, horizontal, vertical, and indirect
- Features highly efficient, exclusive MicroEmitter™ technology
- Available with exclusive wiHUBB® technology
 - Wireless control system for 0-10VDC full range dimming control
 - Programmable autonomous operation
- Three hood styles to configure a look in harmony with your architecture
- Six decorative screen options
- Wide variety of custom arm options.
- Tool-less access
- EISA compliant
- IP65 rated for horizontal configurations and IP66 rated for vertical configurations
- Powder coat finish in 13 standard colors with a polymer primer sealer

PAKWAY SQUARE MEDIUM SCALE HOUSING



PKWM



JOB INFORMATION

TYPE

JOB NAME

LAMP (BY OTHERS)

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DATE

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Parkway Square[™] - Medium Housing Scale

1	2	3	4	5	6			7	8
LUMINIAIDE	HOOD	OPTION	LAMB/DALLACT	DECORATIVE		OPTIONS		COLOR	MOUNTING
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	SCREEN	GENERAL	HOOD	SCREEN		
PKWM									

1. LUMINAIRE

PKWM Parkway Square Pedestrian (Medium) scale.

Slips over a 4" open top square pole or 2 3/8" tenon.

ANG Angled Hood

Horizontal Optics HT: 30.5"/775 mm DIA: 23"/584 mm FPA: 3 18 WT: 57 lbs.

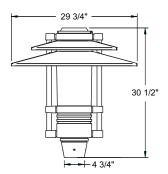


Vertical Optics HT: 30.5"/775 mm DIA: 23"/584 mm EPA: 3.22 WT: 49 lbs.

☐ STR Straight Hood Indirect Hood (Underside finished in high reflectance white)

> **Vertical Optics** HT: 30.5"/775 mm DIA: 29.75"/756 mm EPA: 3.21 WT: 63 lbs.





3. OPTICS

HORIZONTAL LED OPTICAL SYSTEM - Available with ANG hood and LEDs only. Flat glass lens.

□ T2	Horizontal LED optical system. IES Type 2 distribution.
□ T3	Horizontal LED optical system. IES Type 3 distribution.
□ T4	Horizontal LED optical system. IES Type 4 distribution.
□ T5	Horizontal LED optical system. IES Type 5 distribution.

VERTICAL LED OPTICAL SYSTEM

☐ VL3	Asymmetric distribution
☐ VL5	Symmetric distribution

HORIZONTAL OPTICAL SYSTEM - Available with ANG hood only. Not available with LEDs. Flat glass lens.

□ H2	Horizontal optical system. IES Type 2 distribution.
□ H3	Horizontal optical system. IES Type 3 distribution.
□ H4	Horizontal optical system. IES Type 4 distribution.
□ H5	Horizontal optical system. IES Type 5 distribution.

VERTICAL OPTICAL SYSTEM - Not available with IND or LEDs. Clear acrylic cylinder.

GLA	Vertical optical system. Frosted glass diffuser.
GR3	Vertical optical system. IES Type 3 glass refractor.
GB5	Vertical optical system, IES Type 5 glass refractor.

INDIRECT OPTICAL SYSTEM - Available with IND hood only. Not available with LEDs. Clear acrylic cylinder. Underside of hood is painted in high reflectance white.

-3	Indirect reflector. IES Type 3 distribution.
-5	Indirect reflector. IES Type 5 distribution.
BARE LAMP – Available w	ith II. system only. Lightly diffused acrylic cylinder.

☐ BLO Bare lamp system, only for induction lamp system.



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JOB INFORMATION TYPE

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Parkway Square[™] – Medium Housing Scale

1	2	3	4	5	6			7	8
LUMINIAIDE	HOOD	OPTIOS	LAMB/DALLACT	DECORATIVE		OPTIONS		COLOR	MOUNTING
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	SCREEN	GENERAL	HOOD	SCREEN		
PKWM									

4. LA	MP/BAL	LAST
☐ 55L	ED-BW	42 light emitting diode array. Bright white (5100K). Class 2, 120 thru 277 volt. VL3 & VL5 only.
☐ 60L	ED-WW	MicroEmitter™ 60 light emitting diode array. Warm white (3500K). Class 1, 120 thru 277 volt. <i>Horizontal LED only</i> .
☐ 60L	.ED-BW	MicroEmitter™ 60 light emitting diode array. Bright white (5100K). Class 1, 120 thru 277 volt. <i>Horizontal LED only</i> .
☐ 70M	IH	70 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
☐ 70M	IHEB	70 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.
☐ 70M	IHT6	70 watt metal halide 120/277/347 volt ballast. Use G12 base, T6 ceramic lamp.
☐ 70M	IHT6EB	70 watt electronic metal halide 120 thru 277 volt ballast. Use G12 base, T6 ceramic lamp.
100	МН	100 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
100	MHEB	100 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.
150	PSMH	Pulse start 150 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
1 50F	PSMHT6	Pulse start 150 watt metal halide 120/277 volt ballast. Use G12 base, T6 ceramic lamp.
150	MHEB	150 watt electronic metal halide 120 or 277 volt ballast. Use medium base, ED-17 lamp.
150	MHT6EB	150 watt electronic metal halide 120 or 277 volt ballast. Use G12 base, T6 ceramic lamp.
☐ 70H	PS	70 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
100	HPS	100 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
150	HPS	150 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
☐ IL85	5	85 watt induction lamp system. 120, 208, 240 or 277 volt25°C min. start temp. Available in bare lamp configuration (BLO) with LDL lens only.
☐ CF		Compact fluorescent electronic 120 thru 277 volt ballast. Use GX24q base, 26, 32 or 42 watt lamp. Not available with horizontal or LED optics18° C min start temp. Specify wattage.
1400	СО	140 watt electronic CosmoPolis™ 120 or 208 thru 277 volt ballast. Use PGZ12 base, CosmoPolis™ lamp. Not available with horizontal or LED optics.
		All fixtures prewired for 277 volts unless specified. Lamps not included (except IL and LED options). All applicable ballasts are EISA compliant. Mini MasterColor® is a registered trademark and CosmoPolis™ is a trademark of Philips Lighting®.

JOB INFORMATION
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Parkway Square[™] – Medium Housing Scale

1	2	3	4	5	6			7	8
LUMINIAIDE	HOOD	OPTIOS	LAMB/DALLACT	DECORATIVE	OPTIONS CO		COLOR	MOUNTING	
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST	SCREEN	GENERAL	HOOD	SCREEN		
PKWM	_								

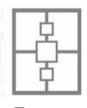
5. DECORATIVE SCREENS (OPTIONAL)

Painted to match fixture. Also available in stainless steel or copper. Not available with horizontal or LED optics.













Infinity design painted to match fixture.

Offset design painted to match fixture.

Wheat design painted to match fixture.

Trio design painted to match fixture.

Shutter design painted to match fixture.

Custom design*
painted to
match fixture.

6. OPTIONS **GENERAL** ☐ WIH-IM In fixtures wireless control module. *For use with LED only. ☐ ULS Upper lens shield above the hood. Reduces light above hood. ☐ TEN 2 3/8" O.D. x 4" long tenon. Required for all poles, except for PS4. GLA only. Tenon adaptor slips over a 2 3/8" O.D. x 4" long tenon. Required for poles by ☐ TEN23 others or used in conjunction with the TEN pole option by AAL. GLA only. ■ LDL Lightly diffused lens **3**47 120/240/347 volt ballast for HID only, except 50MH and 50HPS. HOOD ☐ COP Brushed copper hood STS Stainless steel hood **DECORATIVE SCREEN** CPR Screen in brushed copper Screen in brushed stainless steel SSP

7. COLOR

AWT	Arctic White
BLK	Black
MTB	Matte Black
DGN	Dark Green
DBZ	Dark Bronze
WRZ	Weathered Bronze
BRM	Metallic Bronze
VBL	Verde Blue
CRT	Corten
MAI	Matte Aluminum

MDG	Medium Grey
ATG	Antique Green
LGY	Light Grey
SPP	Salt and Pepper (premium)
SFM	Seafoam (premium)
WCP	Weathered Copper (premium)
SHK	Shamrock (premium)
RAL COLOR	Provide a RAL 4 digit color number
CUSTOM COLOR	Please provide a color chip for matching

JOB INFORMATION

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Parkway Square[™] - Medium Housing Scale

1	2	3	4	5	6			7	8
LUMINIAIDE	HOOD	OPTICS	LAMP/DALLACT	DECORATIVE		OPTIONS		COLOR	MOUNTING
LUMINAIRE	HOOD		LAMP/BALLAST	SCREEN	GENERAL	HOOD	SCREEN		
PKWM	_					_			

8. MOUNTING

WALL MOUNT – Mou	unting plate included. Hardware by others.
PSWM-TU	Fixture above with arm mounted up.
PSWM-TD	Fixture above with arm mounted down.
PSWM-BU	Fixture below with arm mounted up. Not available with indirect.
PSWM-BD	Fixture below with arm mounted down. Not available with indirect.

POLE MOUNT - Mounts to the side of 4" O.D. pole.

I OLL MICOIVI	Wealth to the olde of 1 C.D. pole.	
PSA-TU	Fixture above with arm mounted up.	
PSA-TD	Fixture above with arm mounted down.	
PSA-BU	Fixture below with arm mounted up. Not available with indirect.	
PSA-BD	Fixture below with arm mounted down. Not available with indirect.	





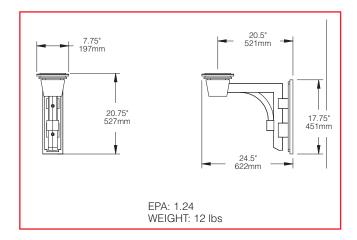




PSWM-TD PSA-TD

PSWM-BU PSA-BU

PSWM-BD PSA-BD



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Parkway Square[™] – Medium Housing Scale

1	2	3	4	5		6		7	8
LUMINIAIDE	HOOD	0.07100	LAMB/DALLACT	DECORATIVE SCREEN		OPTIONS		COLOR	MOUNTING
LUMINAIRE	HOOD	OPTICS	LAMP/BALLAST		GENERAL	HOOD	SCREEN		
PKWM									

HOUSING

Parkway Square housings shall be cast aluminum A356 alloy, free of any porosity, foreign materials, or cosmetic fillers. The driver shall be mounted internally and accessed by loosening four captive bolts and lifting away the lamp compartment. The lamp compartment shall be sealed with a molded silicone gasket. All lenses shall be molded, seamless high impact lighting grade acrylic. The lens shall be sealed to the housing with a molded silicone gasket on the top and bottom. The vertical struts shall be cast aluminum and painted to match the fixture. All internal and external hardware shall be stainless steel. The fixture shall slip over a 4"/100mm square post top and secured with four stainless steel set screws. The hood shall be formed from 5052 H32 aluminum, 304 stainless steel or 110 copper. The underside of the hood shall be finished in a high reflectance white powder coating. Copper hoods shall be unfinished to develop a patina.

The horizontal optical system door shall be cast aluminum painted to match the fixture. The internal horizontal optical system shall be sealed from the outer housing with a silicone gasket. The tempered glass lens shall be sealed to the housing with a silicone gasket. A pair of stainless steel latches shall release the door to allow access to the optical system. The horizontal optical system shall be rotatable on 90° centers for orienting the light distribution. The horizontal optical system shall meet ANSI IES standards for full cutoff reflector systems when using arm in the BU or BD configuration.

MICROEMITTER™ REFLECTOR

Precision injection molded, high specular reflectors shall be positioned to achieve directional control toward desired task. Secondary reflectors shall have a concave, specular medium hammertone finish that shall be used to redirect light downward. No fasteners shall be placed on the reflective surface. The entire assembly shall fasten to the housing as a one-piece module and shall feature wiring quick-connects for easy installation. MicroEmittersTM shall be field replaceable and shall be driven at 350mA current.

ELECTRICAL

The driver shall be integral to the fixture, mounted on a prewired module with a quick disconnect plug, and shall be removable by loosening four screws. The driver shall accept 120 thru 277 volts input, with output drive current of 350ma, and shall be wired at the factory for 277 volts, unless specified. Standard color temperatures for LEDs shall be 3500k and 5100k. Rated luminous efficacy of luminaire shall be >40 lm/W, with rated light output of >2960 for 5100k LED. The vertical LED configuration shall have a self contained light engine consisting of a diode array mounted to a die-cast aluminum heat sink and sealed behind an injection molded and optically clear lens.

INSTALLATION & MOUNTING

The PKWM shall be factory supplied as a complete, prewired assembly. The fixture shall slip over a 4" open top pole or 2 3/8" tenon and secured and leveled with 4 stainless steel set screws or arm mounted to the side 4"/100mm round or square pole.

FINISH

Fixture finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture is listed with ETL or outdoor, wet location use and shall conform to ul1598 and Canadian CSA std. C22.2 No.9. lp65 rated for horizontal configurations and ip66 rated for vertical configurations.

WARRANTY

Fixture is warranted for three years, with the exception of Parkway Square MicroEmitterTM LED models. Parkway square MicroEmitterTM LED, including housing, LEDs and electrical components, are warranted for five years. Driver components carry the driver manufacturer's limited warranty. Any unauthorized return, repair, replacement or modification of the product(s) shall void this warranty. This warranty applies only to the use of the product(s) as intended by AAL and does not cover any misapplication or misuse of said product(s), or installation in hazardous or corrosive environments. Contact AAL for complete warranty language, exceptions, and limitations.

JOB INFORMATION
TYPE
JOB NAME
LAMP (BY OTHERS)
CUSTOMER
DATE
Consult factory for any custom/ modified products
APPROVALS







9100 SERIES HID 150 WATT MAX. IN-GRADE LUMINAIRE

DESCRIPTION:

The 9100 Series HID flush mounted Up-lights are designed for flush mounting in planting areas or in concrete, and are used for illuminating building facades, walls, trees, and similar applications. The lamp module and power modules are factory sealed, thermally protected, and connected by submersible rated connectors.

SPECIFICATIONS:

DOOR MATERIAL: Cast aluminum or bronze that locks the lamp housing into the Rough-In Section with a single tamperproof stainless steel fastener.

ROUGH-IN SECTION: Injection molded ABS, U.V. stabilized, impact and corrosion resistant for use in all types of environments.

LAMP MODULE HOUSING: Stainless steel, sealed and purged of all moisture to 100°F (38°C). Electrical access to lamp module is done through submersible rated connector. **THERMALLY PROTECTED**.

LAMP TYPE: See ordering guide. LAMP INCLUDED.

VOLTAGE: See ordering guide.

DISTRIBUTIONS: The Spot Reflector is specular spun aluminum. The Wide Flood Reflector is diffuse spun aluminum and the Wall Wash Reflector is diffuse hydroformed aluminum. The Spot and Flood Reflector assemblies have 15° of internal lamp tilt on a 360° axis of rotation. Lamp tilt is not used in the Wall Wash units. The lenses are clear tempered flat glass. Convex lenses are available.

THE COMMON LIGHT DISTRIBUTIONS ARE:

SPOT = 7° spread; **WFL** = 140° spread; **NFL** = 30° spread; **MFL** = 60° spread;

WW = 10 to 1 Uniformity Ratio

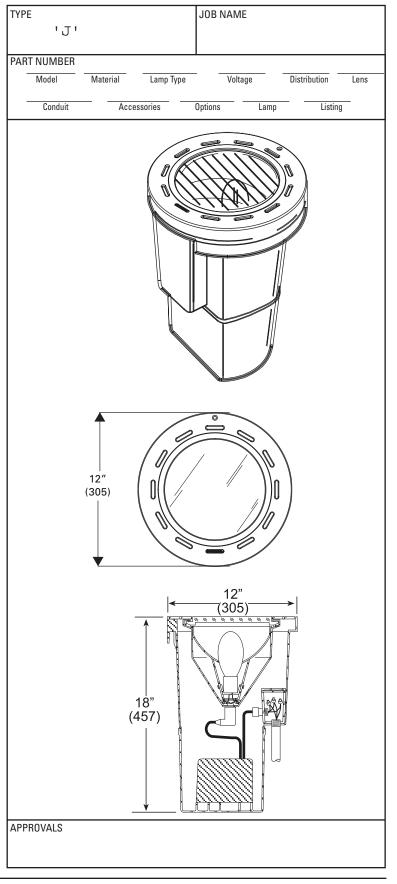
Reflectorized lamp distributions vary depending on manufacturer. Check Photometric Sheets.

POWER MODULE: Sealed unit encapsulated in an engineered composite resin to eliminate all water entry.

CONDUIT ENTRIES: 3/4" NPT are available in the cast aluminum integral Junction Box. Suitable for thru-branch wiring. This box has 24 cubic inches of volume.

LISTING: U.L., CSA, NEMKO

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)







9100 ORDERING INFORMATION

60 Hz Application

PART	NO.																							
XAMI 9	PLE:	A	1500	смт6	M	IV0	LT	M	IFL			FLC			34B	 B		G	EB		LI)		
* R /	la dal	$\neg \mid$			*1	/- 14		٦	lг			*Lens						0	4:		7			
	lodel	_					age						01				╵└		tion					
l 910	0 Round				☐ 120 ☐ 208 ☐ 220 ☐ 240 ☐ 277 ☐ 347	8 0 0 7				FLC	C5 10 LF	Flat Lens Flat Lens 5° Axial Flat Lens Flat Lens	Spread Spread 10° Ti Froste Clear	lt				GEB⁵	Ball		С			
4	•Mater	ial .			□ M\	VOLT	-4		[FLC5/	ıs	Anti-Slip Flat Lens		ial										
									_			Spread -		lip										
□ A □ B	Aluminu Bronze	ım								ı Ci	LC	Convex I Clear	_ens											
	*	_amp	Type				*Di	strib	ution				*Co	ondui	t	7				*	Lam	р		
	MH	p	7,60				SP	Spot					□ 34B	3/4" NI	PT	_					P Lam		_	
			T6, G-12		Ī		MFL ¹	Medi	ium Flo					Botton	1						inst	alled		
			T6, G-12		-		NFL ¹ WFL ¹		ow Floo e flood	od														
	□ 150 □		T6, G-12 E17, med				NWD ¹		Wash							Acces	sorie	es					Finisl	h ⁹
			E17, med						ctor, 5				Int	ernal									BL Black	
			E17, med				FL		ad lens I (PAR						/ISR	Modul	ar sup	port rin	ng		_		BZ Bronz	
			E17, med			_		only)	•	umpo					IHL	Interna	al hone	eycomb	o louv	er	i		DB Dark	
			E17, med E17, med													Interna			eld		Ī	□ DI	NA Natur	al Alur
			E17, med E17, med												WL ¹	Wall W	/ash L	ouver			1		GN Greer	1
			E17, med											<u>ternal</u>		<u>.</u>					1		GR Gray	
			PAR38, r													Glare S					- 1	□ SI	ND Sand	
	□ P387	70CM ⁷	PAR38, r	ned. ba	ise											Rock G					- 1	□ S	TG Steel	Gray
			PAR38, r											Р	U21	35 cu.	ın. pot	ung co	mpou	ΠT	-	□ T	VG Terra	
	□ P381		,																				Greer	
	□ P38		PAR38, r PΔR38 r																		-		VH White	
	HPS	200111	, 1		.50																I		CF Custo	m Finis
		50S8	E17, med	d. base																				
			E17, med																					
			E17, med																					
		150S	E17, med	d. base																				

Notes

- Not Available with PAR Lamps.
- ² RG and GS are mutually exclusive.
- ³ Not available with CLC Lens.
- ⁴ MVOLT only valid if GEB is Chosen.
- 5 GEB only available with MH lamps to 150 watts, MVOLT is the default voltage for GEB lamps.
- 6 Not available with WWD distribution.
- Not available in 220 Volt.
- ⁸ Only available in 120 or 277 Volt.
- ⁹ Finish is only valid with "A" door material.

Consisting of:

RIS Rough-In Section ACL Lamp Module HSL Ballast Module



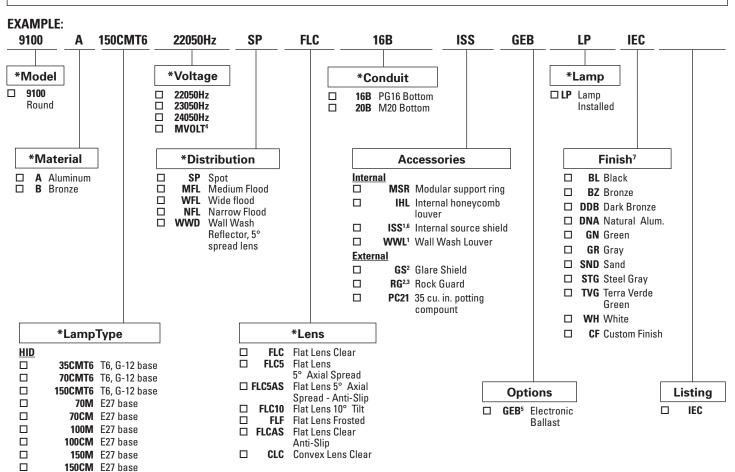


9100 ORDERING INFORMATION

50 Hz Application

Choose the boldface catalog nomenclature that best suits your needs. *Designates required selection.

PART NO.



Notes:

HPS □

- Not Available with PAR Lamps.
- RG and GS are mutually exclusive.
- Not available with CLC Lens.
- MVOLT only valid if GEB is Chosen.
- 5 GEB only available with MH lamps to 150 watts, MVOLT is the default voltage for GEB lamps.
- Not available with WWD distribution.
- ⁷ Finish is only valid with "A" door material.

50S E27 base

70S E27 base

100S E27 base

Consisting of:

RIS Rough-In Section ACL Lamp Module

HSL Transformer Module/ Power Cord

730LB PRAIRIE LIGHTED BOLLARD

SPECIFICATIONS

GENERAL

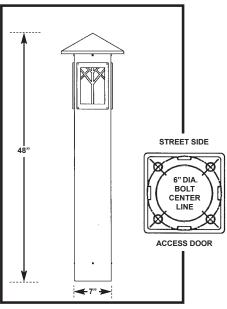
The Model 730LB decorative lighted bollard shall be aluminum, one-piece construction. The square aluminum shaft base shall be constructed with decorative cast window grilles and overhung roof cap. The Model shall be Sternberg Lighting #730LB lighted bollard or #730LB-QR quick release lighted bollard.

CONSTRUCTION

The bollard housing shaft shall be 7" square having a wall thickness of 3 /16" and made of ASTM 6061 extruded aluminum and tempered to a T6 condition. The bollard features four 6" wide windows with cast tree design grille work. The cast 12" square roof shall cantilever the fixture body and have a solid aluminum soffit. The assembly comes standard with a 1-piece white lens made of 1 /4" thick square heavy-duty acrylic for vandal resistance. Optional lenses are available. The internal anchor base shall be 6^{1} /2" square and made of heavy wall, 356 alloy cast aluminum and shall be vertically fastened to bollard housing. It shall have a 1 /2" thick floor cast as an integral part of the base. The overall height of the bollard shall be 48". (For other heights, consult factory).*

ELECTRICAL

All electrical components shall be U.L. approved. H.I.D. ballasts shall be high power factor with lamp starting down to -30 degrees C. Medium base porcelain sockets to be 4KV rated. The ballast/socket assembly shall be pre-wired. Optional compact fluorescent (PL) ballasts shall be instant start electronic with a starting temperature of down to 0 degrees F. They shall have a 4-pin socket and support quad tube and triple tube lamps. Ballasts shall be DOE EISA compliant.



See installation template for exact door position.

QUICK RELEASE MOUNTING (Optional)

The Model 730LB-QR shall have a quick release option which allows quick removal of the bollard for convenience or emergency access. The burial portion shall be made of ASTM 6061 aluminum extrusion and shall have a keyway and flexible connection system for securing to bollard. The bollard shall have a mated extension and anti-rotation key and padlock slot. The quick release system shall allow for a flush pavement installation after temporary bollard removal.

FINISH

Prior to coating, each assembly shall be chemically cleaned and etched in a 5-stage washing system which includes alkaline cleaning, rinsing, phosphoric etching, reverse osmosis water rinsing, and non-chrome sealing to ensure corrosion resistance and excellent adhesion for the finish coating. The finish coating shall be electrostatically applied semi-gloss, super durable polyester powder baked at 400 degrees for a durable and superior, color retentive finish. Our optional antique Verde Green finish and Swedish Iron finish are hand brushed using a 3-step process. The total assembly shall be wrapped in shockproof wrapping or fully enclosed in corrugated cartons.

INSTALLATION

Four, hot-dipped galvanized "L" type anchor bolts shall be provided with the post for non-quick release bollard anchorage. Quick release anchorage requires no anchor bolts. Bollard will be provided with a grounding stud mounted on the base floor.

WARRANTY Five-year limited warranty. See product and finish warranty guide for details.

BUILDING A PART NUMBER PART NUMBER SELECTIONS OPTIONAL LIGHT SOURCE **BALLASTS** LAMPS **FINISHES STANDARD** · OWGT Old World Gray Textured OPTIONS FINISH CHAIN **BOLLARD** • HPS35/MED 35HPS BKT Black Textured · OWG Old World Gray WATTS/TYPE/VOLTS 50HPS • HPS50/MED BK Black **FINISHES CUSTOM** • HPS70/MED 730LB FHS 70HPS120 VG • 70HPS VG Verde Green · WHT White Textured • 100HPS • HPS100/MED • PGT Park Green Textured WH White • PG • 50MHP MHP50/MED Park Green • CV Copper Vein • 70MHP • MHP70/MED Architectural Medium ABZT MODELS' · WBK Weathered Black • 100MHP MHP100/MED Bronze Textured • 730LB WBR Weathered Brown • 26PLT PLT26 ABZ Architectural Medium • 730LB-QR • CD Cedar 32PLT PLT32 Bronze • RT Rust * NOTE: For custom heights • 42PLT • PLT42 SI Swedish Iron OI Old Iron designate height after bollard INCAND DBT Dark Bronze Textured TT Two Tone model Example: 730LB-42" DB Dark Bronze CM Custom Match **OPTIONAL VOLTAGES** ** TO ORDER CHAIN: CHAIN LOOP* • 120 **OPTIONS** Specify total length of chain CL1 • 208 . FHD Dual Fuse and • PEC1 Photocell-Bimetal 120 Volt required for project. Chain Loop • 240 • PEC2 Photocell-Bimetal 208-277 Volt Holder-208, 240, 480 Volt MHP- Metal halide systems • CL2 Chain • 277 • PEC1-E Photocell-Electronic 120 Volt GFI Ground Fault are pulse start. Loops 180º • 480 PEC2-E Photocell-Electronic 208-277 Volt Interrupter Duplex Outlet MULTI • FHS Single Fuse and Holder-120,277 Volt • LAMPS Select from List (120 - 277)

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IP68 ₹ ♦ ▮ ▮

4421 BASE OR YOKE MOUNT

LINE VOLTAGE FOUNTAIN FIXTURE

DESCRIPTION

The 4421 series is ideal for shallow pool installations. Designed for the 120V T-4 mini-can tungsten halogen (quartz) lamp, 500W Max. It is compact in size with an over all height of 8 3/8". The standard unit employs a medium-angle flood pattern reflector. The reflector is chrome plated spun copper.

FEATURES & SPECIFICATIONS

FIXTURE HOUSING & ROCK GUARD: Heavy wall cast bronze construction. Natural bronze finish.

LAMP: 500W Max., T-4 mini-can.

SOCKET: Mini-can base type with 200°C insulated leads.

DISTRIBUTION: Reflector is parabolic chrome plated spun copper.

LENS: 7 9/16" diameter convex clear tempered heat resistant

MOUNTING: ALB custom base enables underwater lighting fixtures to be mounted 2" below the water level regardless of the depth of the fountain. This is achieved by securing the base in 3 places and cutting a length of 3/4" red brass pipe (threaded on one end) to the desired size. The locking mechanism allows you to remove the fixture for re-lamping without upsetting the fixture adjustment.

RISER: RSR6 if no length specified and ALB is chosen. 4"-24" Riser stem, available in 2" increments.

GASKET: Single-piece molded U-shaped silicone.

CORD: Minimum of 10' of #16-3ST submersible rated cord. Cord entrance is brass, water-tight seal and epoxy encapsulated. *Cord length must be specified.*

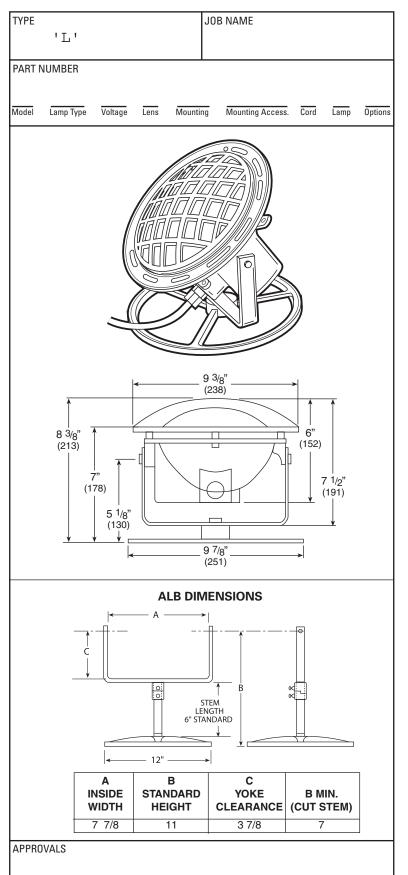
FACTORY LEAK TESTED: Fixtures are tested at 10 PSI (0.70kg/cm²) internal pressure while totally submerged in water.

LOW WATER CUT-OFF: Temperature sensing low water cutoff standard.

FASTENERS: Stainless steel.

LISTING: U.L., C.S.A.

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)



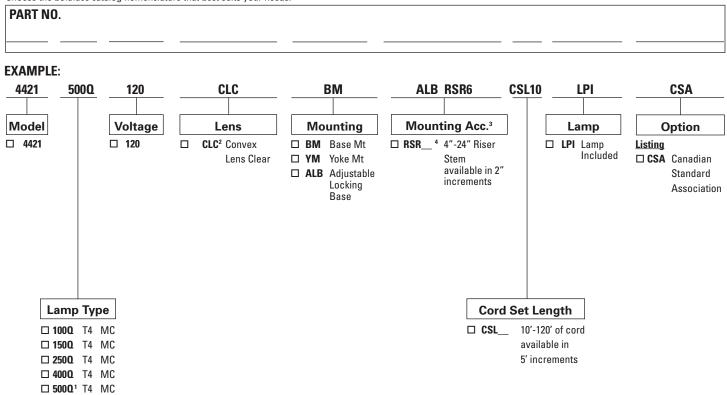




4421 ORDERING INFORMATION

60 Hz Application

Choose the boldface catalog nomenclature that best suits your needs.



- **Notes:** ¹ 500Q will be used if no lamp is chosen.
- ² CLC will be used if no lens is chosen.
- ³ Mounting Accessories are only available with BM.
- ⁴ RSR6 will be used if no riser length is specified and ALB is chosen.



D-Series Size 1 LED Area Luminaire





Number Note: Type

Munha felakan ar manga ayar iba caga ra 200 alli onarag-ya alamania.

Specifications

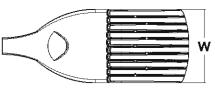
EPA: 0.8 ft² (0.07 m²)

Length: 33" (83.8 cm)

Width: 13" (33.0 cm)

Height: 7-1/2" (19.0 cm)

Weight 27 lbs (max): (12.2 kg)







Introduction

Catalog

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 – 400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

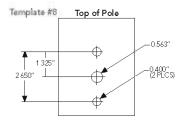
Ordering Information

EXAMPLE: DSX1 LED 2 30B700/40K SR3 MVOLT SPA DDBXD

DSX1 LED													
Series	Light Engines Performance Package			ackage '	Distric	oution	Voltage	Foltage Mounting		Options		Finish records	
DSX1 LED	2	Oneengine (30 LEDs) Two engines (60 LEDs)	530 mA option 30B530/30K 30B530/40K 30B530/50K 700 mA option 30B700/30K 30B700/40K 30B700/50K	3000K 4000K 5000K	SR2 SR3 SR4 SR5 FT	Type II Type IV Type IV Type V Forward throw	MVOLT ² 120 ² 208 ² 240 ² 277 ² 347 ³ 480 ³	Shippe SPA RPA WBA	ed included Square pole mounting Round pole mounting Wall bracket	Shippe PER DMG DCR HS SF DF WTB TLS	d installed NEMA twist-lock receptade only (no controls) 0-10V dimming driver (no controls) ⁴ Dimmable and controllable via ROAM® (no controls) ⁵ House-side shield ⁶ Single fuse (120, 277, 347V) ⁷ Double fuse (208, 240, 480V) ⁷ Utility terminal block Tool-less entry trigger latch	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white

Drilling

Accessories



Controls & Shields

 DSS124N1.5TJJE U
 Photocell - SSL twist-lock (120-277V)*

 REN277-NM1 U
 ROAM* node (277V)*

 SC U
 Shorting cap*

 DSX1 LED 1 HS U
 House-side shield (for one light engine)

 DSX1 LED 2 HS U
 House-side shield (for two light engine)

For more control options, wat [17] and [12] online.

DSX1 shares a unique dtllling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	DM29AS	2 at 90°
DM28AS	2 at 180°	DM39AS	3 at 90°
DM49AS	4 at 90°	DM32AS	3 at 120°*

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's PCLES CENTRAL to see our wide askedion of poles, accessories and advantorial tools.

Tenon Mounting Slipfitter*

Resen Sib.	Tingle flist	2 at 1807	2 at 90"	Sat 120"	3400	4 60 00"
2-3/8"	AST 20-190	AST20-280	AST20-290	AST20-320	AST 20-390	AST20-490
2-7/8"	AST 25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST3 5-190	AST35-280	AST35-290	AST35-320	AST3 5-390	AST35-490

* For round pole mounting (RPA) only.

NOTES

- Configured with 4000K (/40K) provides the shortest lead times. Consult factory for 3000K (/30K) and 5000K (/50K) lead times.
- 2 MVCLT driver operates on any line voltage from 120-277V. Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Not available with with single board, 530 mA product (1 308530).
- 4 Not available with 347 or 480V.
- 5 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Additional handware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: see 9 roamservices.net.
- 6 Also available as a separate accessory; see Accessories information at left.
- 7 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- 8 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.





30 or 60 LEDs 33"L x 13"W x 7.5"H 28 lbs 144W

D-Series - Size 2

120 LEDs 40"L x 15"W x 7.5"H 39 lbs 290W



Family Comparison



DSX 2 Area