



City of Madison

Proposed Demolition & Rezoning

Location
105-113 South Mills Street &
1018-1022 Mound Street

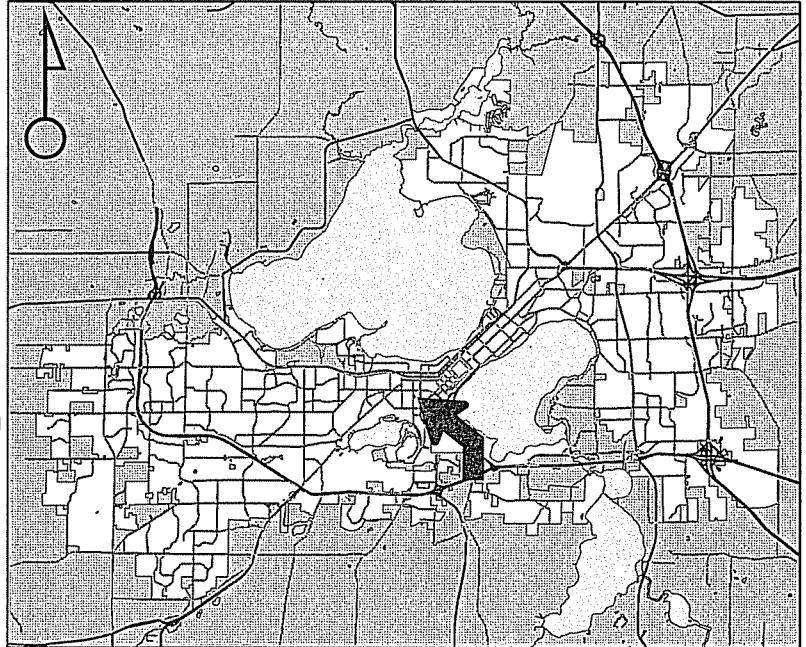
Applicant
Meriter Hospital, Inc./Steve Kleckhafer -
Plunkett Raysich Architects

From: PD-SIP To: Amended
PD-SIP

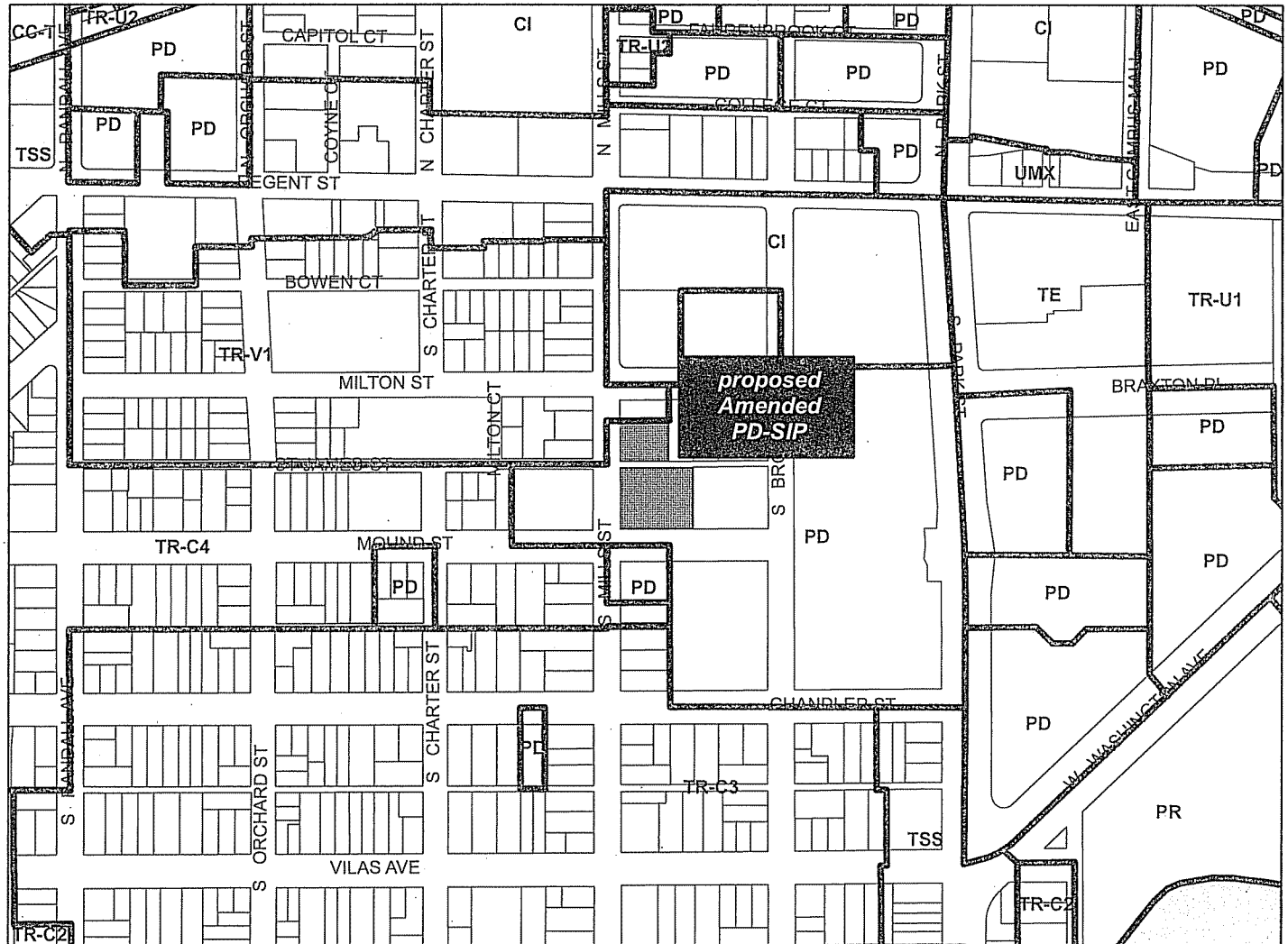
Existing Use
Residential structures

Proposed Use
Demolish 6 residential structures and
approve amended specific implementation
plan to construct new apartment building
with 74 units

Public Hearing Date
Plan Commission
30 September 2013
Common Council
15 October 2013



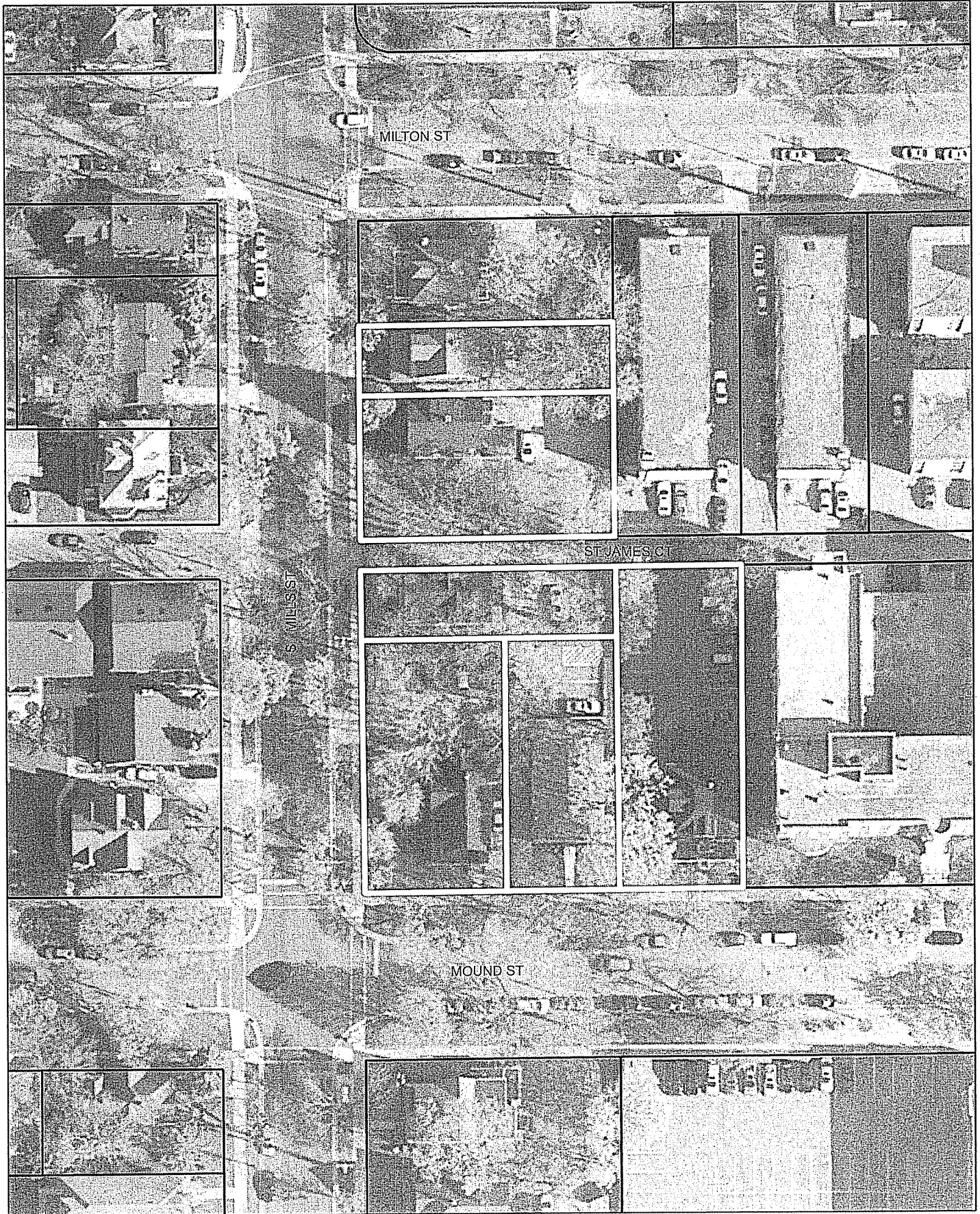
For Questions Contact: Tim Parks at: 261-9632 or tparks@cityofmadison.com or City Planning at 266-4635



Scale : 1" = 400'

City of Madison, Planning Division : RPJ : Date : 26 September 2013

8-7





LAND USE APPLICATION

CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

- All Land Use Applications should be filed with the Zoning Administrator at the above address.
- The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the Subdivision Application.
- This form may also be completed online at:
www.cityofmadison.com/developmentcenter/landdevelopment

FOR OFFICE USE ONLY:

Amt. Paid \$1500 Receipt No. 145584
 Date Received 7/31/13
 Received By JLK
 Parcel No. 0709-233-0405-3
 Aldermanic District 13 Sme Ellingson
 Zoning District PD
 Special Requirements _____
 Review Required By:
 Urban Design Commission Plan Commission
 Common Council Other: _____

Form Effective: February 21, 2013

1. **Project Address:** 107 S. Mills Street
Project Title (if any): Vicinato Apartments

2. **This is an application for (Check all that apply to your Land Use Application):**

- Zoning Map Amendment from PD-GDP to PD-SIP
- Major Amendment to Approved PD-GDP Zoning Major Amendment to Approved PD-SIP Zoning
- Review of Alteration to Planned Development (By Plan Commission)
- Conditional Use, or Major Alteration to an Approved Conditional Use
- Demolition Permit
- Other Requests: _____

3. **Applicant, Agent & Property Owner Information:**

Applicant Name: Craig Enzenroth Company: Gallina Corporation
Street Address: 101 E Main Street City/State: Mount Horeb, WI Zip: 53572
Telephone: (608) 437-8300 Fax: (608) 437-8302 Email: cenzenroth@gallinacos.com

Project Contact Person: Steven Kleckhafer Company: Plunkett Raysich Architects, LLP
Street Address: 2310 Crossroads Dr, Suite 2000 City/State: Madison, WI Zip: 53718
Telephone: (608) 240-9900 Fax: (608) 240-9690 Email: skieckhafer@prarch.com

Property Owner (if not applicant): Meriter Management Services, Inc., c/o Meriter Hospital, Inc.
Street Address: 202 S Park Street City/State: Madison, WI Zip: 53715

4. **Project Information:**

Provide a brief description of the project and all proposed uses of the site: The Gallina Companies is proposing Vicinato Apartments, a 4-story, 74-unit, apartment complex with under building parking and surface parking. Removal of six residential structures.

Development Schedule: Commencement December 2013 Completion August 2014

8-9

5. Required Submittal Information

All Land Use applications are required to include the following:

- Project Plans** including:*
 - Site Plans (fully dimensioned plans depicting project details including all lot lines and property setbacks to buildings; demolished/proposed/altered buildings; parking stalls, driveways, sidewalks, location of existing/proposed signage; HVAC/Utility location and screening details; useable open space; and other physical improvements on a property)
 - Grading and Utility Plans (existing and proposed)
 - Landscape Plan (including planting schedule depicting species name and planting size)
 - Building Elevation Drawings (fully dimensioned drawings for all building sides, labeling primary exterior materials)
 - Floor Plans (fully dimensioned plans including interior wall and room location)

Provide collated project plan sets as follows:

- **Seven (7) copies** of a full-sized plan set drawn to a scale of 1 inch = 20 feet (folded or rolled and stapled)
- **Twenty Five (25) copies** of the plan set reduced to fit onto 11 X 17-inch paper (folded and stapled)
- **One (1) copy** of the plan set reduced to fit onto 8 ½ X 11-inch paper

* For projects requiring review by the **Urban Design Commission**, provide **Fourteen (14) additional 11x17 copies** of the plan set. In addition to the above information, all plan sets should also include: 1) Colored elevation drawings with shadow lines and a list of exterior building materials/colors; 2) Existing/proposed lighting with photometric plan & fixture cutsheet; and 3) Contextual site plan information including photographs and layout of adjacent buildings and structures. The applicant shall bring samples of exterior building materials and color scheme to the Urban Design Commission meeting.

Letter of Intent: Provide one (1) Copy per Plan Set describing this application in detail including, but not limited to:

- | | | |
|---|---|--|
| • Project Team | • Building Square Footage | • Value of Land |
| • Existing Conditions | • Number of Dwelling Units | • Estimated Project Cost |
| • Project Schedule | • Auto and Bike Parking Stalls | • Number of Construction & Full-Time Equivalent Jobs Created |
| • Proposed Uses (and ft ² of each) | • Lot Coverage & Usable Open Space Calculations | • Public Subsidy Requested |
| • Hours of Operation | | |

Filing Fee: Refer to the Land Use Application Instructions & Fee Schedule. Make checks payable to: *City Treasurer*.

Electronic Submittal: All applicants are required to submit copies of all items submitted in hard copy with their application as Adobe Acrobat PDF files on a non-returnable CD to be included with their application materials, or by e-mail to pcapplications@cityofmadison.com.

Additional Information may be required, depending on application. Refer to the Supplemental Submittal Requirements.

6. Applicant Declarations

Pre-application Notification: The Zoning Code requires that the applicant notify the district alder and any nearby neighborhood and business associations in writing no later than **30 days prior to FILING this request**. List the alderperson, neighborhood association(s), and business association(s) AND the dates you sent the notices:
Alder Sue Ellingson on March 12, Greenbush Neighborhood Association meeting

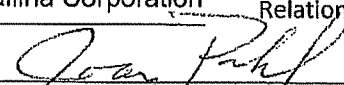
→ If a waiver has been granted to this requirement, please attach any correspondence to this effect to this form.

Pre-application Meeting with Staff: Prior to preparation of this application, the applicant is required to discuss the proposed development and review process with Zoning and Planning Division staff; note staff persons and date.

Planning Staff: Tim Parks Date: 3-5-13 Zoning Staff: Matt Tucker Date: 3-5-13

The applicant attests that this form is accurately completed and all required materials are submitted:

Name of Applicant Craig Enzenroth - Gallina Corporation Relationship to Property: Accepted offer to purchase

Joan Pahl, Dir of Treasury Services
Authorizing Signature of Property Owner  Date 7-30-13 **8-9**



11000 West Park Place
Milwaukee, WI 53224
Tel 414 359-3060
Fax 414 359-3070
www.prarch.com

2310 Crossroads Drive
Suite 2000
Madison, WI 53718
Tel 608 240-9900
Fax 608 240-9690

September 18, 2013

Mr. Al Martin, Urban Design Commission
Department of Planning & Community Development
City of Madison
215 Martin Luther King Jr. Blvd.
Madison, WI 53701

CITY OF MADISON

SEP 26 2013

J:00 PM EW
Planning & Community
& Economic Development

Re: Letter of Intent
Vicinato Apartments
105-113 S. Mills Street & 1020-1022 Mound Street, Madison, WI
PRA Project No. 120399-01

Dear Mr. Martin:

The following submittal is for an Initial/Final Approval presentation to the Urban Design Commission on September 25, 2013.

Organizational Structure:

Owner:	Gallina Corporation 101 E. Main St., Ste. 500 Mt. Horeb, WI 53572 Contact: Craig Enzenroth cenzenroth@gallinacos.com	Architect:	Plunkett Raysich Architects, LLP 2310 Crossroads Dr., Ste. 2000 Madison, WI 53718 Contact: Steve Kieckhafer SKieckhafer@prarch.com
Site/Civil:	Burse Surveying and Engineering, Inc. 1400 E. Washington Ave, Suite 158 Madison, WI 53703 Contact: Michelle Burse mburse@bse-inc.net	Landscape:	Bruce Company 2830 Parmenter St. Middleton, WI 53562 Contact: Steve Short sshort@brucecompany.com
Lighting:	Hein Engineering 319 W Beltline Hwy, Suite 111 Madison, WI 53713 Contact: Mike Hein hein@chorus.net		

Partners: Michael P. Brush, Martin P. Choren, D. Scott Davis, Gregg R. Golden, Kim D. Hassell, Mark C. Herr, John J. Holz,
Steven A. Kieckhafer, Scott A. Kramer, David J. Raysich, Michael H. Scherbel, Michael J. Sobczak

Introduction:

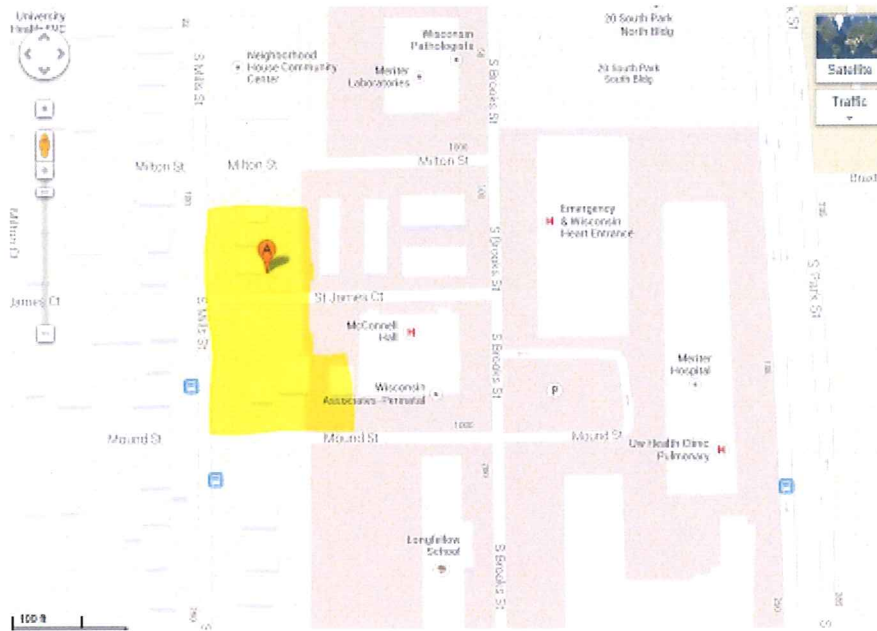
The Gallina Companies is proposing Vicinato Apartments a 4-story, 74-unit, apartment complex located at 107 Mills Street in Madison, Wisconsin. This development is in the Greenbush Neighborhood, Alder District 13, Sue Ellingson.

Project Description:

“Vicinato” means Neighborhood in Italian. This name was chosen as a remembrance to the Italian immigrants that came to the Greenbush Neighborhood of Madison to settle and raise families.

This Development will redevelop six (6) lots on the corner of S. Mills St. and along Mound St. Currently these lots are residential as described by address:

- 105 S Mills St- single family residential rental property, zoned PD (parcel # 070923304045)
- 107 S Mills St- 2-unit residential rental property, zoned PD (parcel # 070923304053)
- 113 S Mills St- 3-unit residential rental property, zoned PD (parcel # 070923304061)
- 1018 Mound St- 2-unit residential property, zoned PD (parcel # 070923304095)
- 1020 Mound St- Office converted sm., Commercial, zoned PD (parcel # 070923304087)
- 1022 Mound St- 2-unit residential rental property, zoned PD (parcel # 070923304079)



These properties are currently owned by Meriter Hospital, with ownership that will be transferred to The Gallina Companies. A certified survey map has been created for the development. Lot 1 will be the property that is purchased by the Gallina Companies, and Outlot 1 will be retained by Meriter Hospital for future development. The structures on all of the listed addresses sites have been determined to be in poor to very poor condition and will be demolished for the proposed development for which the Alder has been notified. Currently the structure at 1022 Mound St. is being offered for relocation to a reasonable buyer for the cost of \$1.00.

The development will be 4-stories in height with 74 dwelling units in a mix of studio, 1-bedroom and 2-bedroom units.

Building Elements

This transitional zone within the Meriter PUD, allows for a 4-story building. To integrate with the topography of the site, higher elevation on the south, lower elevation to the north, the building massing along Mills St., and Mound St. will maintain the street edge for 4-stories and then step down to the south at an intersection that is the main street entrance along Mills St. for 4-stories.

The goal is to create a residentially friendly scale due to the transitional zone from the Meriter campus currently and proposed of larger buildings to the small scale buildings for residential, as the blend to the established residential neighborhood. To accommodate the residential character, the apartments building will have hip roof design with ornamental brackets that are contextual with the year in which the neighborhood was established. A series of raised brick walls within the 10 foot step back along Mills St. and Mount St. provide for a patio to the first floor residents and also accommodates a variety to the landscaping. To also reinforce the smaller scale residential character of the building, a series of bay windows allow the elevation to have a variety of articulation, with

The exterior materials for the Vicinato Apartments consist of brick masonry, fiber cement exposed lap siding and accents of precast concrete. These materials will provide for a durable, high quality and attractive building with low maintenance. The brick color will be complementary to the Meriter campus brick varieties and the siding colors will be accented

Access to the site for vehicles will be provided from Mount St., which was a preference of the Neighborhood, down a maximum 8% slope to the lower floor level of the building. Parking for the development will be provided in an under building parking garage, where there will be a total of 51 parking spaces provided. In addition, the parking garage has ample, secure bike parking provided. Surface parking is provided, and accommodated by a retaining wall constructed at the property line with a landscape buffer. Trash and recycling dumpsters are located to provide access at the backside of the building within an enclosed structure. A loading zone area is provided at the front of the building, off of Mills St. provided with a mountable curb and designated only for loading, and not short term parking. Semi-trailer deliveries will not be permitted on to the site.

Green space that is landscaped is provided around the building at several locations. The building is at the setback, or build to 10-feet from the north, south and west property lot line providing opportunity for a variety of landscaping and a nicely landscaped buffer at the back of the building between the surface parking lot and the adjacent property.

Site Development Statistics

Lot 1 Area	36,877 s.f. / .8466 acres
Dwelling Units	74
Density	498 s.f. / du
Building Height	4 Stories

Gross Floor Area ~64,000 s.f.
(Excluding parking)
Floor Area Ratio 1.74

<u>Dwelling Unit Mix</u>	Total	Area (sq.ft.)
Studio	3	435
One Bedroom	47	645-710
<u>Two Bedroom</u>	<u>24</u>	<u>950-1015</u>
Total Dwelling Units	74	

Vehicle Parking

On-site surface Parking 18 spaces
Below Grade Parking 50 spaces

Parking Ratio .92 spaces / du

Bike Parking

Bike Storage available to residents, 74 spaces

Moped Parking

Moped parking available to residents.

Project Schedule:

This project is anticipated to start construction in December, 2013 with completion scheduled for August, 2014.

Social & Economic Impacts:

We believe that the site at South Mills Street and Mound Street is prime location for the proposed Vicinato Apartments. Extremely accessible to central Madison, the University, and great employment centers like Meriter and St. Mary's hospitals, this project will provide much needed housing opportunities for a wide diversity of tenants, from work force housing to professionals. Vicinato will be a valuable asset to the Greenbush Neighborhood. In addition to providing needed housing, it will also benefit local employees and employers. Local businesses will also benefit from the increased customer base. This development promotes connectivity, diversity, and a vibrant local community while minimizing vehicular travel and encouraging pedestrian activity. In addition, this development will provide significant employment for the local construction trades.

City Planning, Urban Design (UDC), Alderperson and Neighborhoods:

The following is a list of dates of which meetings were held to discuss the proposed project

- February 26, 2013- Alder
- March 5, 2013- City Planning
- March 12, 2013- Neighborhood (Greenbush)
- June 6, 2013- City Planning
- July 16, 2013- City Planning

Urban Design Commission – Vicinato Apartments
PRA Project No. 120399-01
September 18, 2013
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July 24, 2013 - UDC, Informational
July 29, 2013 - Alder and Neighborhood (Greenbush)
September 11, 2013 - UDC, Initial/Final Approval
September 30, 2013 – Plan Commission
October 15, 2013 – Common Council

Value of Land:

The current assessed Land Value of the parcels total \$470,500

Estimated Project Costs:

The project costs is estimated to be \$8,100,000

Job Creation:

Vicinato Apartments will create an estimated 170 construction jobs as well as provide employment for 3 staff members to manage and operate the completed building.

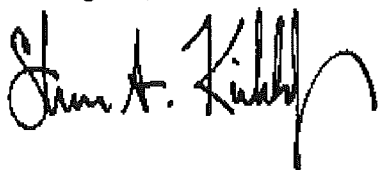
Public Subsidy:

This project will be funded totally with private equity/lending and is not requesting any public subsidy or assistance. The Vicinato will be a market rate apartment project.

Please contact us with any questions or for additional information that you request.

Thank you for your time in reviewing our proposal.

Best regards,

A handwritten signature in black ink, appearing to read "Steven A. Kieckhafer". The signature is fluid and cursive, with a long, sweeping tail on the final letter.

Steven A. Kieckhafer, AIA
Architect

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — **LP6LN (New Construction)**: Rugged, 16-gauge galvanized steel mounting frame with torsion spring bracket to mount the finishing module. Vertically adjustable mounting brackets that use 16-gauge flat bar hangers (included), 1/2" conduit or C channel T-bar fasteners. Provides 3-3/4" total height adjustment.

6VL (New Construction): Galvanized steel mounting/plaster frame with torsion spring bracket to mount the finishing module. Integral galvanized bar hangers span up to 24" o.c. and feature built-in T-bar clips and nailers for T-bar or wood joist installations.

6VLR (Remodel): Galvanized steel remodel mounting/plaster frame with torsion spring bracket to mount the finishing module. Four (4) remodel ARC clips included for remodel installation.

All frames are equipped with galvanized steel junction box UL Listed for through wire applications. Junction boxes equipped with two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs and removable access doors. Capacity: 4 (2 in, 2 out), No. 12 AWG conductors, rated for 90°C.

Post installation adjustment possible from below the ceiling.

Maximum 1-1/2" ceiling thickness.

LED Trim: Rugged, one-piece, die-cast heat sink design for optimum thermal management. Wet location rated lens is tightly fitted to the housing to reduce the ingress of dust.

OPTICS — Elliptical upper reflector and micro prism lens, provides precise beam control. Lower splay recesses optical system into the ceiling to reduce glare and provide a traditional PAR look. Standard fixture has a 0.65 spacing criteria. The luminaire is also available with a 0.95 spacing criteria option for use in general/ambient lighting applications.

CRI>80.

ELECTRICAL — On-board circuitry to ensure against wiring errors.

Thermal protection provided against improper insulation use.

High-efficiency, electronic LED 0-10V dimming driver mounted to the junction box, dims luminaire to 15% light output.

For dimming fixture requires two (2) additional low-voltage wires to be pulled.

The system maintains 70% lumen output for more than 50,000 hours.

Input wattage for 1000L is 14.2W, 74 lumens per watt. Input wattage for 1500L is 18.8W, 85 lumens per watt.

Actual wattage may differ by +/-15% when operating between 120-277V +/-10%.

LISTINGS — CSA certified to US and Canadian safety standards. Wet location listed. ENERGY STAR® qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

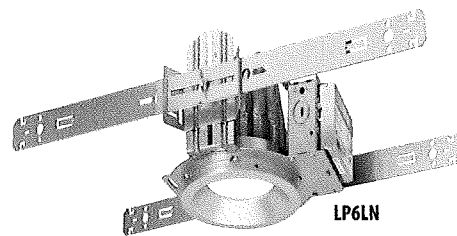
Note: Specifications subject to change without notice.

Catalog Number
Notes XA - recess can
Type

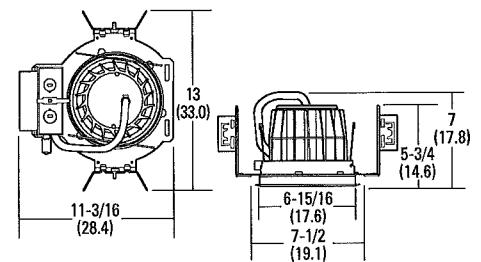
6" LED



Non-IC
New Construction



LP6LN



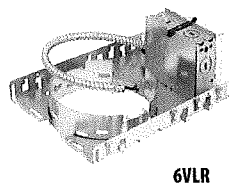
Specifications

- Aperture: 4-3/8 (11.1)
- Ceiling opening: 6-15/16 (17.6)
- Overlap trim: 7-1/2 (19.1)
- Height: 7 (17.8)

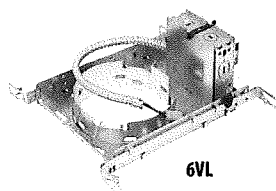
All dimensions are inches (centimeters) unless otherwise noted.

ORDERING INFORMATION For shortest lead times, configure products using **bolded options**. **Example: REAL6C D6MW ESL 1500L 35K .95SC 277 LP6LN**

REAL6C D6		BN		1000L	40K	.65SC	120	LP6LN1000 ³	ISH
Series/Finish		Type		Lumen output ¹	Color temperature	Distribution	Voltage	Mounting pan	Options
Series REAL6C D6	6" open downlight	ESL	ENERGY STAR® listed	1000L 14.2W, 1000 lumens 1500L 18.8W, 1500 lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	.65SC .65 Spacing criteria .95SC .95 Spacing criteria	120 277 347 ²	LP6LN 1000L ³	PFMW Matte white plastic flange ring
								A Clear diffuse	PFBL Black plastic flange ring
								AZ Clear specular	ELR ⁴ Emergency battery pack with remote test switch
								BN Brushed nickel	NSD ⁵ Sensor Switch nLight™ dim- ming relay
								BLZ Black specular	GMF Single slow- blow fuse, must specify voltage
								BZA Antique bronze	
								ORB Oil-rubbed bronze	
WT Wheat diffuse	ISH Insect shield								



6VLR



6VL

Notes

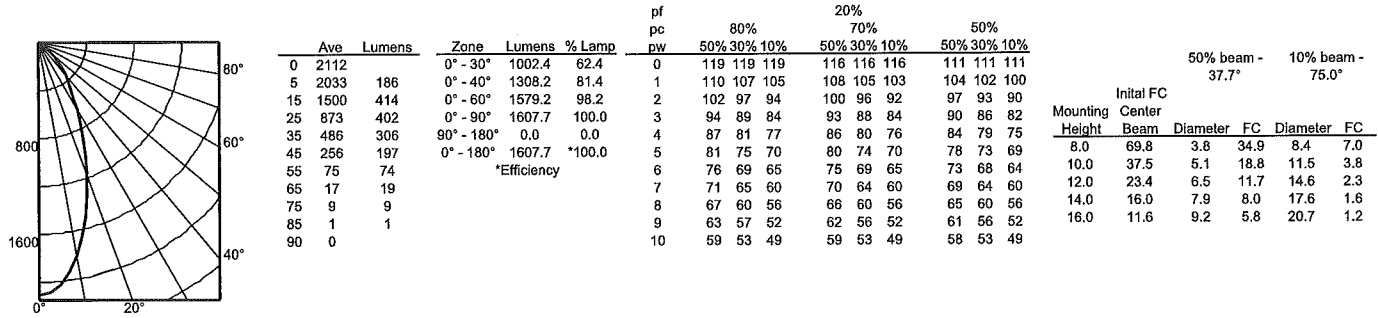
- Total system nominal delivered lumens.
- Using step-down transformer increases power draw by 15 watts.
- Lumens only required when ordered separately.
- Not available with 347V.
- One 5A relay with one 0-10VDC dimming output, shipped installed. Requires additional nLight bus power supply.

REALITY™ 6" LED ENERGY STAR®

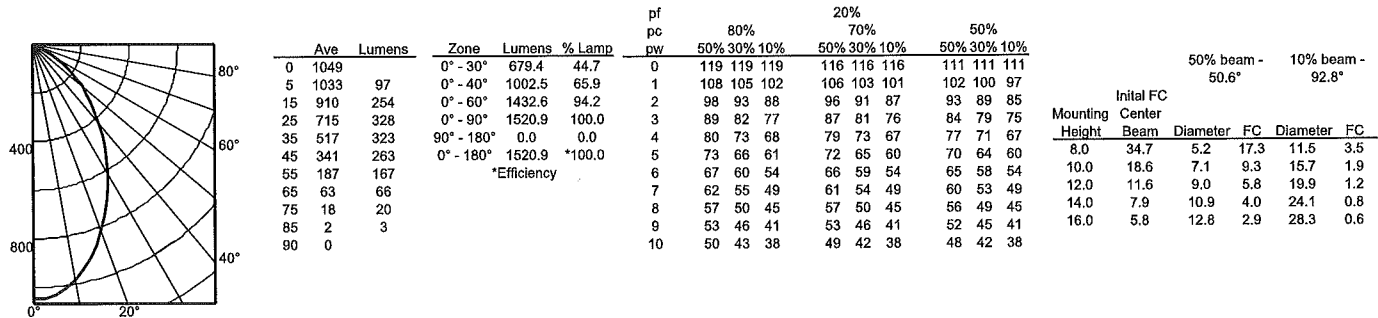
PHOTOMETRICS

Distribution Curve Distribution Data Output Data Coefficient of Utilization Illuminance Data at 30" Above Floor for a Single Luminaire

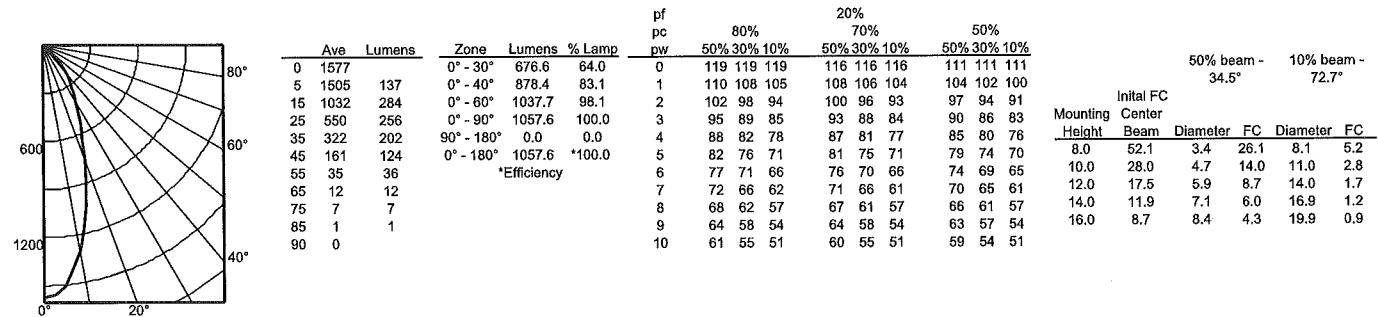
REAL6C D6MW ESL 35K 1500L .65SC, input watts: 18.8, delivered lumens: 1607, .65 spacing, LM/W=85, test no. LTL21387



REAL6C D6MW ESL 1500L 35K .95SC, input watts: 18.8, delivered lumens: 1520, .95 spacing, LM/W=81, test no. LTL21389



REAL6C D6MW ESL 1000L 35K .65SC, input watts: 14.2, delivered lumens: 1057, .65 spacing, LM/W=74, test no. LTL21373



Color temperature	Lumen multiplier
27K	0.83
30K	0.94
35K	1.00 (Baseline)
40K	1.03

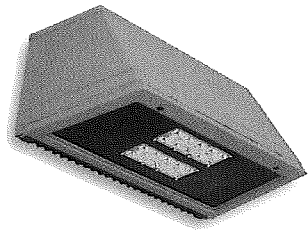
Trim finish	Lumen multiplier
Clear Diffuse (A)	1.01
Matte White (MW)	1.00
Clear Specular (AZ)	1.00
Wheat (WT)	0.98
Brushed Nickel (BN)	0.97
Black Specular (BLZ)	0.96
Antique Bronze (BZA)	0.95
Oil-Rubbed Bronze (ORB)	0.95

COMPATIBLE DIMMER SWITCHES	
Manufacturer	Model number
Synergy®	ISD BC 120/277
Leviton®	IP710-DLX
Lutron®	NTFTV-WH For on/off control, this switch requires a power pack. Consult Lutron for more information.

Notes
 • Actual performance may differ as a result of end-user environment and application.

REALITY-6-LED-COMMERCIAL-ESL





WST LED

Architectural Wall Sconce



Catalog Number

Notes

Type

XB - wall pack

Use the WST LED sconce over the range to illuminate a wall sconce.

Specifications

Luminaire

Height: 7-1/4"
(18.4 cm)

Width: 16-1/4"
(41.3 cm)

Depth: 9-1/8"
(23.2 cm)

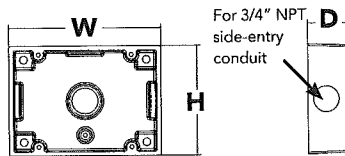
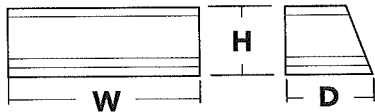
Weight: 17 lbs
(7.7 kg)

Optional Back Box (BBW)

Height: 4"
(10.2 cm)

Width: 5-1/2"
(14.0 cm)

Depth: 1-1/2"
(3.8 cm)



Introduction

The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WST LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Ordering Information

EXAMPLE: WST LED 2 10A700/40K SR3 MVOLT DDBTXD

WST LED	1 <	700 mA	SR3	MVOLT	to be selected by		
Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options ¹	Finish (required)
WST LED	1 One engine (10 LEDs) 2 Two engines (20 LEDs)	700 mA options: 10A700/40K 4000K	SR2 Type II SR3 Type III SR4 Type IV	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 480	Shipped included (blank) Surface mount Shipped separately² BBW Surface-mounted back box UTS Uptilt 5 degrees	Shipped installed PE Photoelectric cell, button type ^{4,5} SF Single fuse (120, 277, 347V) ⁴ DF Double fuse (208, 240, 480V) ⁴ DMG 0-10V dimming driver (no controls) ELCW Emergency battery backup ⁶ WLU Wet location door for up orientation PIR Motion/ambient light sensor ⁷ Shipped separately VG Vandal guard WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Emergency Battery Operation

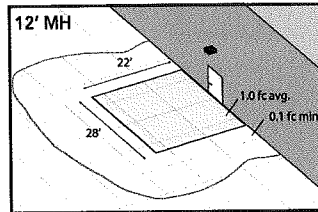
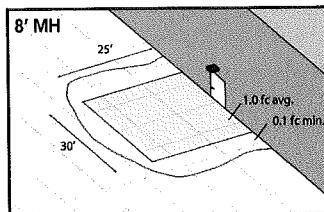
The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All ELCW configurations include an independent secondary driver with an integral relay to immediately detect A/C power loss. Dual light engines are wired in parallel so both engines operate in emergency mode and provide additional component redundancy. These design features meet various interpretations of NFPA 70/NEC 2008 - 700.16

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples at right show illuminance of 1 fc average and 0.1 fc minimum of the single-engine Type IV product in emergency mode.

WST LED 1 10A700/40K SR4 MVOLT ELCW
10' x 10' Gridlines
8' and 12' Mounting Height



NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with photocell (PE option) or fusing (SF, DF options).
- May also be ordered separately as an accessory. Ex: WSBBW DDBXD U. Must specify finish.
- Must be ordered with fixture; cannot be field installed.
- Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with 480V option. Not available with motion/ambient light sensor (PIR).
- Integral battery pack is rated for -20° to 60°C operating temperature. ELCW warranty is 3 year period. Not available with 347V or 480V.
- Specifies the SensorSwitch SFD-7-ODP control (photocell included); see Motion Sensor Guide for details. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with WLU, VG or WG.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current (mA)	Performance Package	System Watts (MVOLT ¹)	Dist. Type	40K (4000K, 70 CRI)				
					Nominal Lumens	B	U	G	LPW
1 (10 LEDs)	700	10A700/-K	24W	SR2	2005	1	0	1	84
				SR3	2029	1	0	1	84
				SR4	1959	1	0	1	82
2 (20 LEDs)	700	10A700/-K	47W	SR2	3944	1	0	1	84
				SR3	4028	1	0	1	86
				SR4	3851	1	0	1	82

1 See electrical load chart for 347/480V system watts.

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient	Lumen Multiplier
0°C	1.10
10°C	1.06
20°C	1.02
25°C	1.00
30°C	0.98
40°C	0.92

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **WST LED 2 10A700** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.88	0.77

Electrical Load

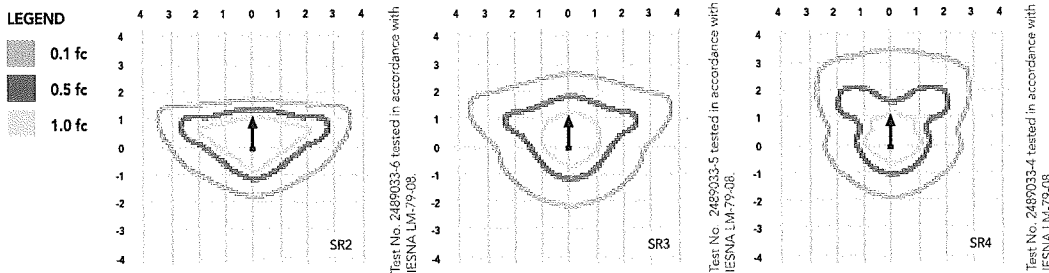
Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
1	700	24W	0.24	0.14	0.12	0.1	-	-
		29W ¹	-	-	-	-	0.09	0.07
2	700	47W	0.44	0.27	0.23	0.20	-	-
		53W ¹	-	-	-	-	0.17	0.12

1 Higher wattage is due to electrical losses from step-down transformer.

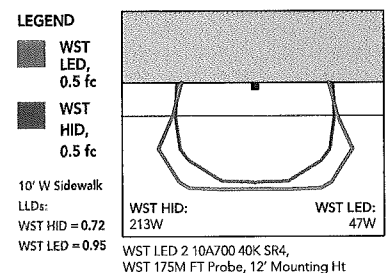
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isofootcandle plots for the WST LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (12').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The integral bubble level on the mounting plate provides assistance for level placement on every installation.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°C minimum ambient.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.



Catalog Number
Notes
Type XC - steplight

FEATURES & SPECIFICATIONS

INTENDED USE

Provides years of maintenance-free illumination for outdoor use in residential & commercial applications. Ideal for applications such as lighting walkways and stairways.

CONSTRUCTION

Cast-aluminum housing with corrosion-resistant paint in either dark bronze or white finish.

ADA compliant.

OPTICS

4000K CCT LEDs.

Polycarbonate lens protects the LED from moisture, dirt and other contaminants.

LUMEN MAINTENANCE: The LED will deliver 70% of its initial lumens at 50,000 hour average LED life. See Lighting Facts label on page 2 for performance details.

ELECTRICAL

MVOLT driver operates on any line voltage from 120-277V.

Operating temperature -30 C to 40 C.

1KV surge protection standard.

INSTALLATION

Surface mount to universal junction box (provided by others).

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations.

Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY

Five-year limited warranty.

Full warranty terms located at www.AcuityBrands.com/CustomerResources/Terms_and_Conditions.aspx.

Note: Specifications are subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

Outdoor General Purpose

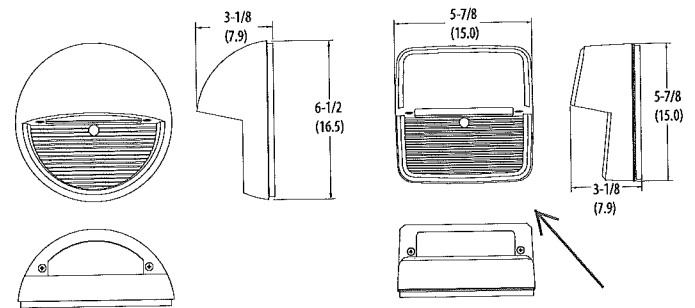
OLSR & OLSS

LED STEP LIGHT



Specifications

All dimensions are inches (centimeters)



Example: OLSS DDB

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

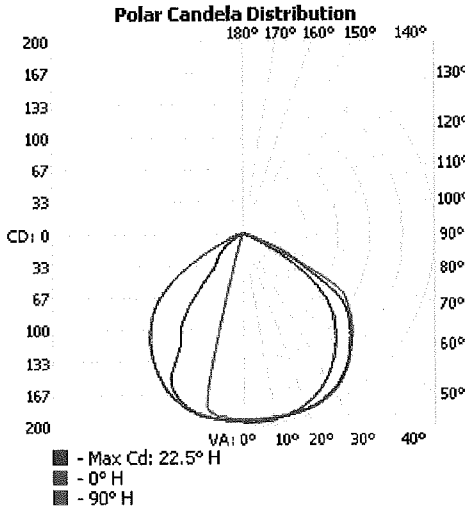
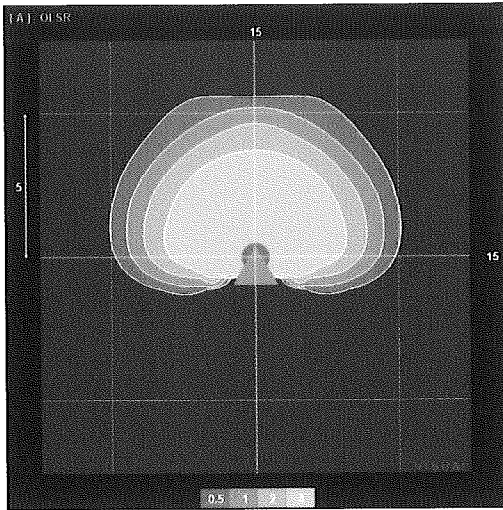
OLSS				DDB	
Series		Color temperature (CCT)		Finish	
OLSR	Step light round	(blank)	4000K	(blank)	MVOLT (120V-277V)
OLSS	Step light square			DDB	Dark bronze
				WH	White

OLSR & OLSS LED Step Light

PHOTOMETRICS

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's Outdoor LED homepage
 Tested in accordance with IESNA LM-79 and LM-80 standards.

OLSR



Acuity Brands Lighting

LED lighting facts
 A Program of the U.S. DOE

Light Output (Lumens)	370
Watts	9
Lumens per Watt (Efficacy)	41

Color Accuracy
 Color Rendering Index (CRI) **75**

Light Color
 Correlated Color Temperature (CCT) **4000 (Bright White)**

↓

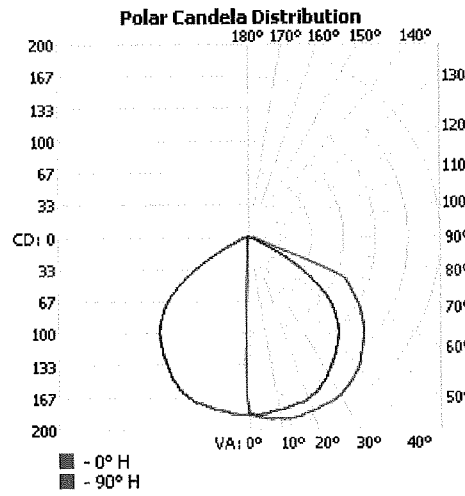
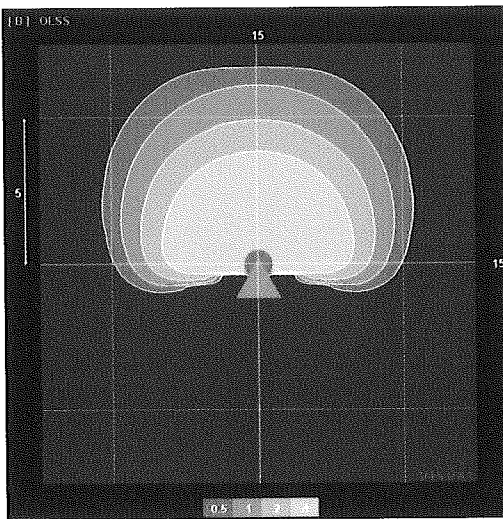
Warm White	Bright White	Daylight
2700K	3000K	4500K
		6500K

All results are according to IESNA LM-79-2003. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NLSMDS10P3 (6/25/2012)
 Model Number: OLSR
 Type: Outdoor path/step light

OLSS ←



Acuity Brands Lighting

LED lighting facts
 A Program of the U.S. DOE

Light Output (Lumens)	330
Watts	9
Lumens per Watt (Efficacy)	38

Color Accuracy
 Color Rendering Index (CRI) **75**

Light Color
 Correlated Color Temperature (CCT) **4000 (Bright White)**

↓

Warm White	Bright White	Daylight
2700K	3000K	4500K
		6500K

All results are according to IESNA LM-79-2003. Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: NLSM-1502E1 (6/23/2012)
 Model Number: OLSS
 Type: Outdoor path/step light



OLSR-OLSS



An Acuity Brands Company

IP65   

3110 LED LOUVER BOLLARD ROUND DOME

DESCRIPTION

The 3110 BOLLARD is a low level area lighting luminaire that combines visual appeal with superior performance and unequalled quality. It is designed to work in building perimeter areas and public spaces completing a wide variety of architectural styles.

Superior performance extends to the detailed finish of the louvers. Matte black finish of top surface provides IES cut off performance while gloss white on bottom extends reflective light to economize on spacing of fixtures. Custom finish available on top louver surface.

The 3110 BOLLARD offers a patented impact resistant mounting and leveling design ensuring life long performance. Four levelling pads within the base mounting plate are easily accessible through the access panel. The levelling pads provide full contact with the concrete pad, providing a high degree of stability. The base mounting plate is fully welded to the bollard post, providing complete structural support from all directions, giving the bollard superior vandal resistance.

Motion Sensing Bi-Level Switching (BLS option) is now possible through the use of a fixture-integrated microwave occupancy sensor. Mounted in the head of the fixture, within the sealed light engine compartment, the sensor is protected from moisture damage, as well as potential damage due to vandalism. The sensor provides up to 20' of motion coverage in the 360 deg area around the bollard (see diagram on the next page). When motion is detected bollard will illuminate at full output (60 Watts). After approx 5 min, bollard will drop to 1/4 full output (15 Watts).

FEATURES & SPECIFICATIONS

MATERIAL: Copper-free Aluminum, A360.

LED ARRAY: 60.3W (total system input wattage) Lumen maintenance of individual light sources have been independently tested to IESNA LM-80 standards.

VOLTAGE: MVOLT 50/60Hz

DISTRIBUTION: SYM - Symmetric, FT - Forward Throw

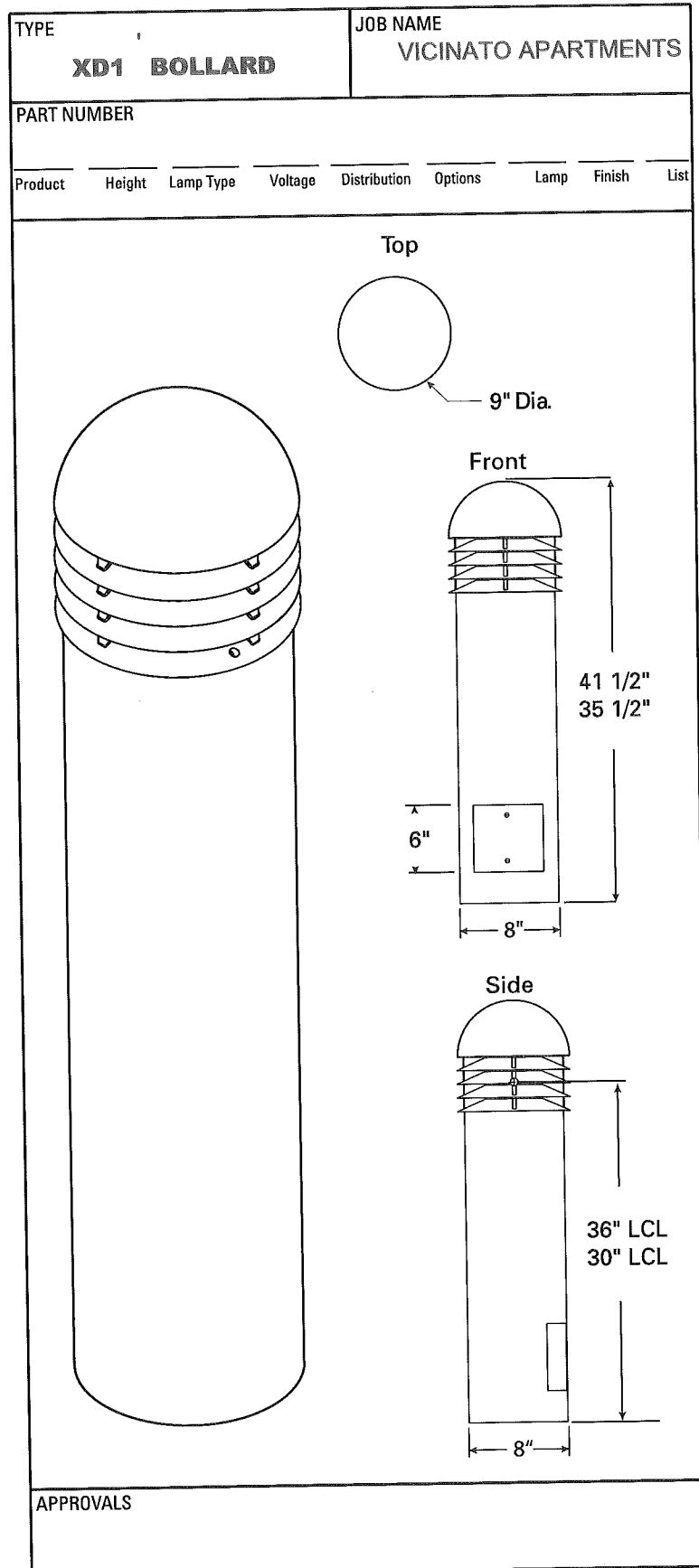
LENS: Frosted Borosilicate Glass.

BALLAST: Integrally mounted LED driver with operating temperature of -30° to 60°C.

FASTENERS: Stainless Steel.

FINISH: See ordering guide

LISTINGS: CSA_{US}, CSA



APPROVALS



An Acuity Brands Company

IP65

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LENS: Frosted Borosilicate Glass.

BALLAST: Integrally mounted LED driver with operating temperature of -30° to 60°C.

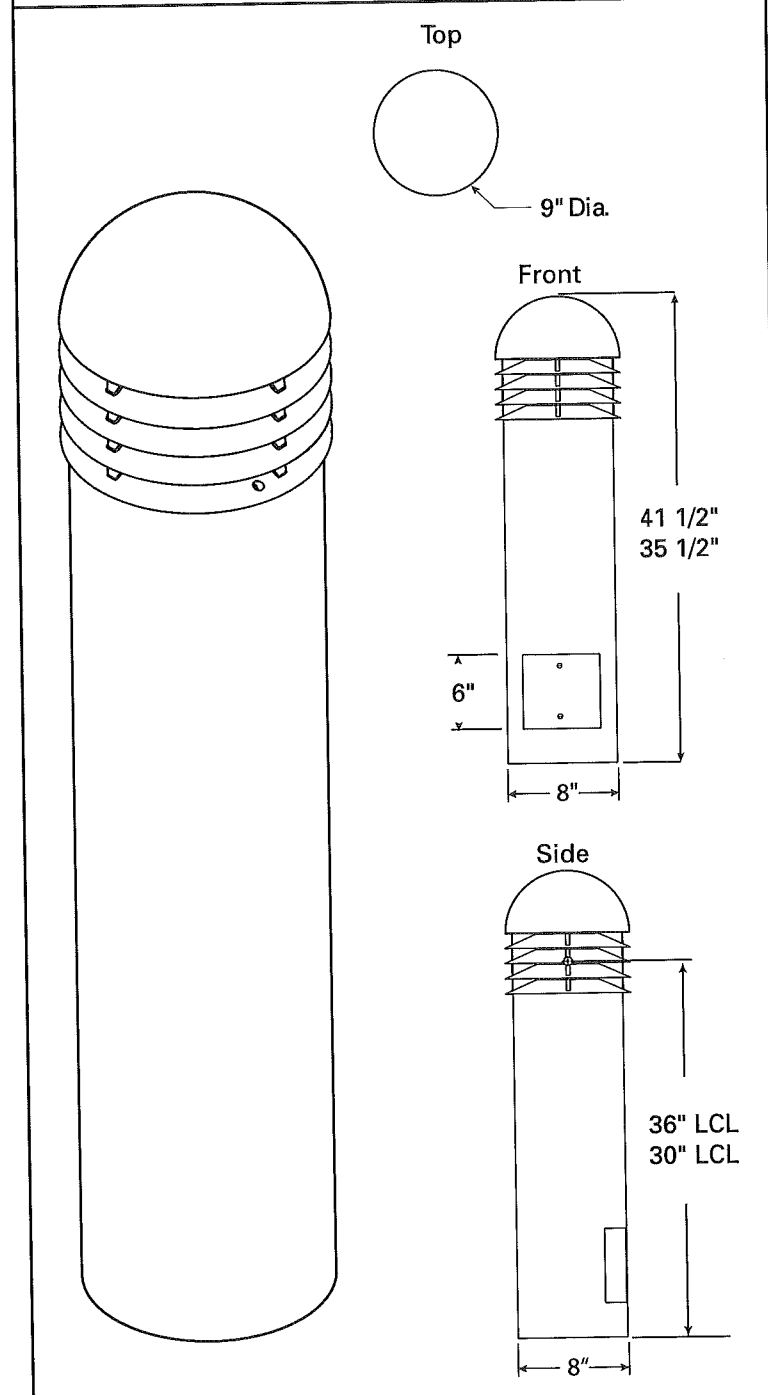
FASTENERS: Stainless Steel.

FINISH: See ordering guide

LISTINGS: CSA_{us}, CSA

TYPE XD2 BOLLARD	JOB NAME VICINATO APARTMENTS
----------------------------	--

PART NUMBER									
Product	Height	Lamp Type	Voltage	Distribution	Options	Lamp	Finish	List	



APPROVALS

3110 BOLLARD ORDERING INFORMATION

50/60 Hz Application

Choose the boldface catalog nomenclature that best suits your needs.

PART NO. _____

SELECTED BY ARCH

EXAMPLE: 42 ~~36~~

3110 **LED** **WHT53K** **MVOLT** **SYM** **Options⁴** **BL**

Product **LED Array** **Voltage** **Distribution** **Options⁴** **Finish**

3110 LED MVOLT SYM Symmetrical, 360° BLS⁶ Bi-Level Switching (Motion Activated) BL Black

120² FT⁵ Forward Throw GFCP³ Receptacle BZ Bronze

277² ELN⁶ Emergency Operation (1000 lumen output) DDB Dark Bronze

347 **Optional Louvers Painted¹** DNA Natural Aluminum

Height **Color**

36 WHT53K 5300°K Color Temp GN Green

42 WHT30K 3000°K Color Temp GR Gray

SND Sand

STG Steel Gray

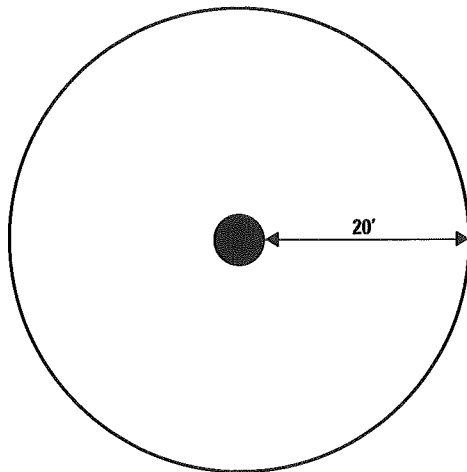
TVG Terra Verde Green

WH White

CF Custom Finish

___/PL Louvers painted to match fixture (top only)

APPROXIMATE MOTION SENSOR COVERAGE AREA:



LIGHT ENGINE SPECIFICATIONS

COLOR	TYPE	COLOR TEMP.	QTY / FIXTURE	LUMENS / WATT	INPUT WATTS
WHT53K	Nichia	5300°K	16	90.2	60.3
WHT30K	Nichia	3000°K	16	66.3	60.3

Notes:

- ¹ Louvers will be black unless otherwise specified (top only).
- ² Only valid with ELN or BLS.
- ³ Only valid with 120 Volt.
- ⁴ Options not valid with 50Hz.
- ⁵ FT not available with BLS.
- ⁶ ELN and BLS require 120 or 277 voltage, not MVOLT or 347.



D-Series Size 1 LED Area Luminaire



Catalog
Number

Notes

pole light w/12ft pole& 3ft base

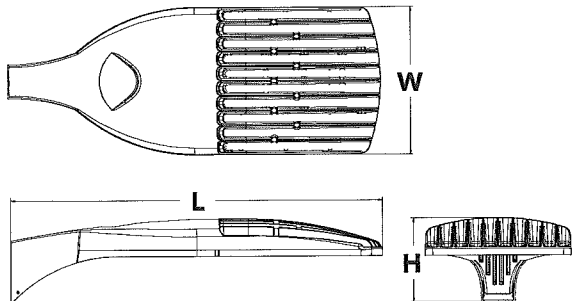
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Specifications

EPA:	1.2 ft ² (0.11 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



Introduction

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

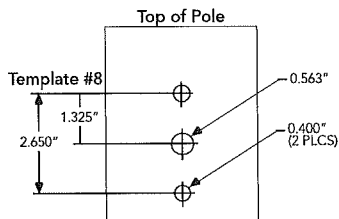
The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 – 400W metal 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 60C 1000 40K T3M MVOLT SPA DDBXD

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Control options	Other options	Finish
DSX1 LED	30C 30 LEDs (one engine) 40C 40 LEDs (two engines) 60C 60 LEDs (two engines)	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000K (80 CRI min.) 40K 4000K (70 CRI min.) 50K 5000K (67 CRI)	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide	MVOLT ² 120 ² 208 ² 240 ² 277 ² 347 480 ³	SPA Square pole mounting RPA Round pole mounting WBA Wall bracket	Shipped installed PER NEMA twist-lock receptacle only (no controls) DMG 0-10V dimming driver (no controls) ⁴ DCR Dimmable and controllable via ROAM® (no controls) ⁵ DS Dual switching ^{6,7} PIR Motion sensor, 8-15' mounting height ⁸ PIRH Motion sensor, 15-30' mounting height ⁹ BL30 Switched dimming, 30% ^{7,10} BL50 Switched dimming, 50% ^{7,10}	Shipped installed HS House-side shield ¹¹ WTB Utility terminal block ¹² SF Single fuse (120, 277, 347V) ¹³ DF Double fuse (208, 240, 480V) ¹³ TLS Tool-less entry trigger latch L90 Left rotated optics ¹⁴ R90 Right rotated optics ¹⁴	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Drilling



DSX1 shares a unique drilling 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 POLES CENTRAL* to see our wide selection of poles, accessories and educational tools.

Tenon Mounting Slipfitter*

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	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.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Not available with single board, 530mA product (30C 530).
- Not available with 347 or 480V.
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roomservices.net. Not available with PIRH.
- Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, DMG or WTB.
- Requires an additional switched line.
- Specifies the SensorSwitch SBR-10-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with DCR or WTB.
- Specifies the SensorSwitch SBR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with DCR or WTB.
- Dimming driver standard. MVOLT only. Not available with DCR or WTB.
- Also available as a separate accessory; see Accessories information.
- WTB not available with BL30, BL50, DS, PIR or PIRH.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Available with 60 LEDs (60C option) only.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁵
SC U	Shorting cap ¹⁵
DSX1HS 30C U	House-side shield for 30 LED unit
DSX1HS 40C U	House-side shield for 40 LED unit
DSX1HS 60C U	House-side shield for 60 LED unit
SPA19/MR2 DDBXD U	Square pole DM19 to DM19AS adapter (specify finish)
RPA19/MR2 DDBXD U	Round pole DM19 to DM19AS adapter (specify finish)

For more control options, visit DTL and ROAM online.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist Type	30K (3000K, 80 minimum CRI)					40K (4000K, 70 minimum CRI)					50K (5000K, 67 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30C (30 LEDs)	700 mA	30C 700 --K	68 W	T1S	5,290	1	0	1	78	6,524	2	0	2	96	7,053	2	0	2	104
				T2S	5,540	1	0	1	81	6,833	2	0	2	100	7,387	2	0	2	109
				T2M	5,360	1	0	2	79	6,611	2	0	2	97	7,147	2	0	2	105
				T3S	5,479	1	0	1	81	6,757	1	0	2	99	7,305	2	0	2	107
				T3M	5,452	1	0	2	80	6,724	2	0	2	99	7,269	2	0	2	107
				T4M	5,461	1	0	2	80	6,736	2	0	2	99	7,282	2	0	2	107
				TFTM	5,378	1	0	2	79	6,633	1	0	2	98	7,171	1	0	2	105
				TSVS	5,708	2	0	0	84	7,040	3	0	0	104	7,611	3	0	1	112
				TSS	5,639	2	0	0	83	6,955	2	0	0	102	7,519	3	0	0	111
				TSM	5,710	3	0	1	84	7,042	3	0	1	104	7,613	3	0	2	112
	TSW	5,551	3	0	1	82	6,847	3	0	2	101	7,401	3	0	2	109			
	1000 mA	30C 1000 --K	105 W	T1S	7,229	2	0	2	69	9,168	2	0	2	87	9,874	2	0	2	94
				T2S	7,572	2	0	2	72	9,603	2	0	2	91	10,342	2	0	2	98
				T2M	7,325	2	0	2	70	9,291	2	0	2	88	10,005	2	0	3	95
				T3S	7,488	2	0	2	71	9,496	2	0	2	90	10,227	2	0	2	97
				T3M	7,451	2	0	2	71	9,450	2	0	2	90	10,177	2	0	2	97
				T4M	7,464	2	0	2	71	9,467	2	0	2	90	10,195	2	0	2	97
				TFTM	7,351	1	0	2	70	9,323	2	0	2	89	10,040	2	0	3	96
				TSVS	7,801	3	0	1	74	9,894	3	0	1	94	10,655	3	0	1	101
				TSS	7,803	3	0	2	74	9,774	3	0	1	93	10,526	3	0	1	100
TSM				7,707	3	0	0	73	9,897	3	0	2	94	10,658	4	0	2	102	
TSW	7,586	3	0	2	72	9,621	4	0	2	92	10,363	4	0	2	99				
40C (40 LEDs)	700 mA	40C 700 --K	89 W	T1S	6,876	2	0	2	77	8,639	2	0	2	97	9,345	2	0	2	105
				T2S	7,202	2	0	2	81	9,049	2	0	2	102	9,788	2	0	2	110
				T2M	6,968	2	0	2	78	8,755	2	0	2	98	9,469	2	0	3	106
				T3S	7,122	2	0	2	80	8,948	2	0	2	101	9,679	2	0	2	109
				T3M	7,088	2	0	2	80	8,905	2	0	2	100	9,632	2	0	2	108
				T4M	7,100	2	0	2	80	8,920	2	0	2	100	9,649	2	0	2	108
				TFTM	6,992	1	0	2	79	8,785	2	0	2	99	9,502	2	0	2	107
				TSVS	7,421	3	0	0	83	9,323	3	0	1	105	10,085	3	0	1	113
				TSS	7,331	2	0	0	82	9,210	3	0	1	103	9,962	3	0	1	112
				TSM	7,423	3	0	2	83	9,326	3	0	2	105	10,087	4	0	2	113
	TSW	7,216	3	0	2	81	9,066	4	0	2	102	9,807	4	0	2	110			
	1000 mA	40C 1000 --K	138 W	T1S	9,521	2	0	2	69	11,970	2	0	2	87	12,871	3	3	0	93
				T2S	9,972	2	0	2	72	12,558	3	0	3	91	13,481	3	0	3	98
				T2M	9,648	2	0	3	70	12,149	3	0	3	88	13,043	3	0	3	95
				T3S	9,862	2	0	2	71	12,418	2	0	2	90	13,331	2	0	2	97
				T3M	9,814	2	0	2	71	12,358	3	0	3	90	13,267	3	0	3	96
				T4M	9,831	2	0	2	71	12,379	2	0	3	90	13,290	2	0	3	96
				TFTM	9,681	2	0	2	70	12,191	2	0	3	88	13,087	2	0	3	95
				TSVS	10,275	3	0	1	74	12,937	3	0	1	94	13,890	4	0	1	101
				TSS	10,150	3	0	1	74	12,782	3	0	1	93	13,721	3	0	1	99
TSM				10,278	4	0	2	74	12,942	4	0	2	94	13,894	4	0	2	101	
TSW	9,991	4	0	2	72	12,582	4	0	2	91	13,507	4	0	2	98				
60C (60 LEDs)	700 mA	60C 700 --K	131 W	T1S	10,226	2	0	2	78	12,871	3	0	3	98	13,929	3	0	3	106
				T2S	10,711	2	0	2	82	13,481	3	0	3	103	14,589	3	0	3	111
				T2M	10,363	2	0	3	79	13,043	3	0	3	100	14,115	3	0	3	108
				T3S	10,592	2	0	2	81	13,331	2	0	2	102	14,427	3	0	3	110
				T3M	10,541	2	0	2	80	13,267	3	0	3	101	14,357	3	0	3	110
				T4M	10,559	2	0	2	81	13,290	2	0	3	101	14,382	3	0	3	110
				TFTM	10,398	2	0	3	79	13,087	2	0	3	100	14,163	2	0	3	108
				TSVS	11,036	3	0	1	84	13,890	4	0	4	106	15,032	4	0	1	115
				TSS	10,902	3	0	1	83	13,721	3	0	1	105	14,849	4	0	1	113
				TSM	11,039	4	0	2	84	13,894	4	0	2	106	15,036	4	0	2	115
	TSW	10,732	4	0	2	82	13,507	4	0	2	103	14,617	4	0	2	112			
	1000 mA	60C 1000 --K	209 W	T1S	14,017	3	0	3	67	17,632	3	0	3	84	19,007	3	0	3	91
				T2S	14,681	3	0	3	70	18,467	3	0	3	88	19,908	3	0	3	95
				T2M	14,204	3	0	3	68	17,867	3	0	3	85	19,260	3	0	3	92
				T3S	14,518	3	0	3	69	18,262	3	0	3	87	19,687	3	0	3	94
				T3M	14,448	3	0	3	69	18,173	3	0	4	87	19,591	3	0	4	94
				T4M	14,473	3	0	3	69	18,205	3	0	3	87	19,625	3	0	4	94
				TFTM	14,253	2	0	3	68	17,928	3	0	4	86	19,326	3	0	4	92
				TSVS	15,127	4	0	1	72	19,028	4	0	1	91	20,512	4	0	1	98
				TSS	14,943	4	0	1	71	18,797	4	0	1	90	20,263	4	0	1	97
TSM				15,131	4	0	2	72	19,033	4	0	2	91	20,517	5	0	3	98	
TSW	14,710	4	0	2	70	18,503	5	0	3	89	19,946	5	0	3	95				



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

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

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX1 LED 60C 1000			
	1.0	0.95	0.93	0.88
	DSX1 LED 60C 700			
	1.0	0.99	0.98	0.96

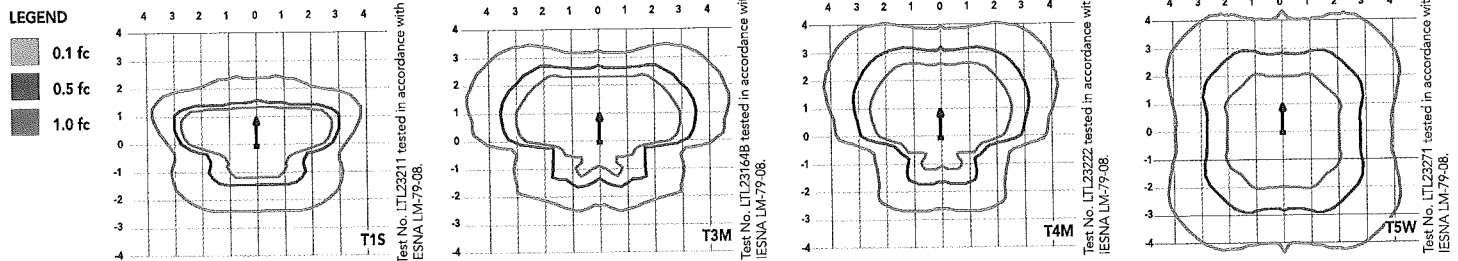
Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
30	530	52	0.52	0.30	0.26	0.23	0.18	—
	700	68	0.68	0.39	0.34	0.30	0.24	0.17
	1000	105	1.03	0.59	0.51	0.45	0.36	0.26
40	530	68	0.67	0.39	0.34	0.29	0.23	0.17
	700	89	0.89	0.51	0.44	0.38	0.31	0.22
	1000	138	1.35	0.78	0.67	0.58	0.47	0.34
60	530	99	0.97	0.56	0.48	0.42	0.34	0.24
	700	131	1.29	0.74	0.65	0.56	0.45	0.32
	1000	209	1.98	1.14	0.99	0.86	0.69	0.50

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.2 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000K (70 minimum CRI) or optional 3000K (80 minimum CRI) or 5000K (67 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

WARRANTY

Five-year limited warranty. Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Specifications subject to change without notice.

