



# City of Madison

## Conditional Use

Location  
134 South Fair Oaks Avenue

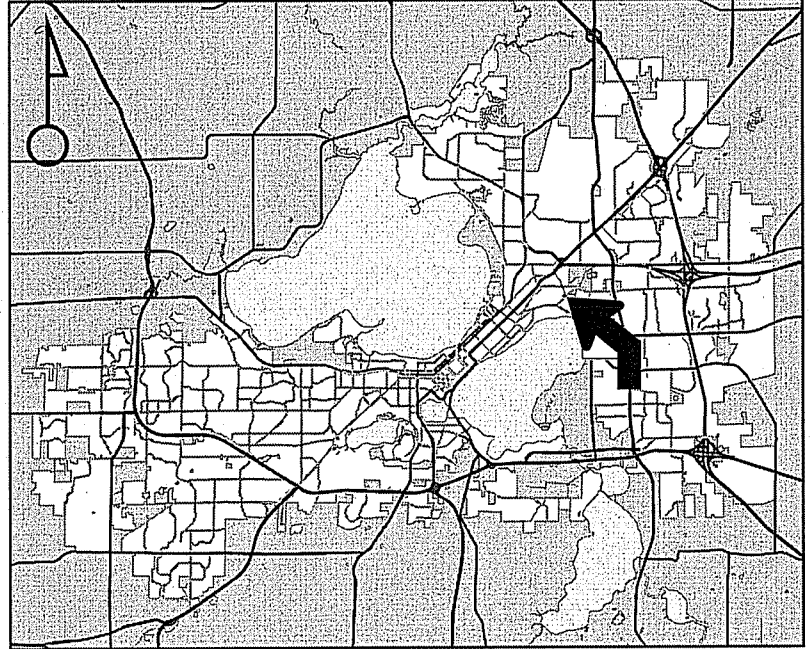
Project Name  
Stone House Apartments

Applicant  
Rich Armensen-Stone House Development/  
Randy Bruce-Knothe & Bruce Architects

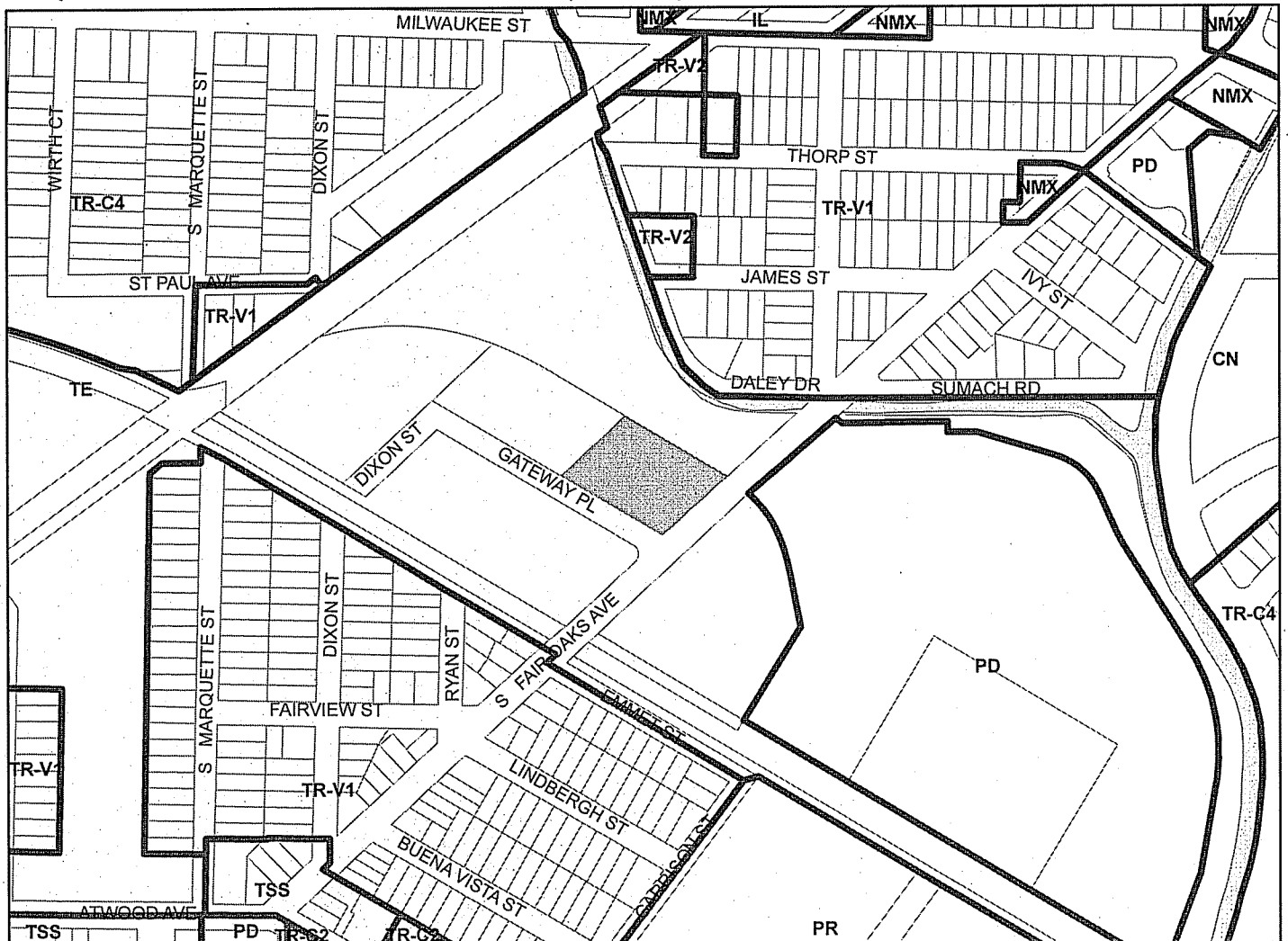
Existing Use  
Landscaping Sales and Services

Proposed Use  
Construct residential addition to existing  
commercial building to contain 80  
apartments and 2,500 square feet of  
commercial space

Public Hearing Date  
Plan Commission  
12 December 2016



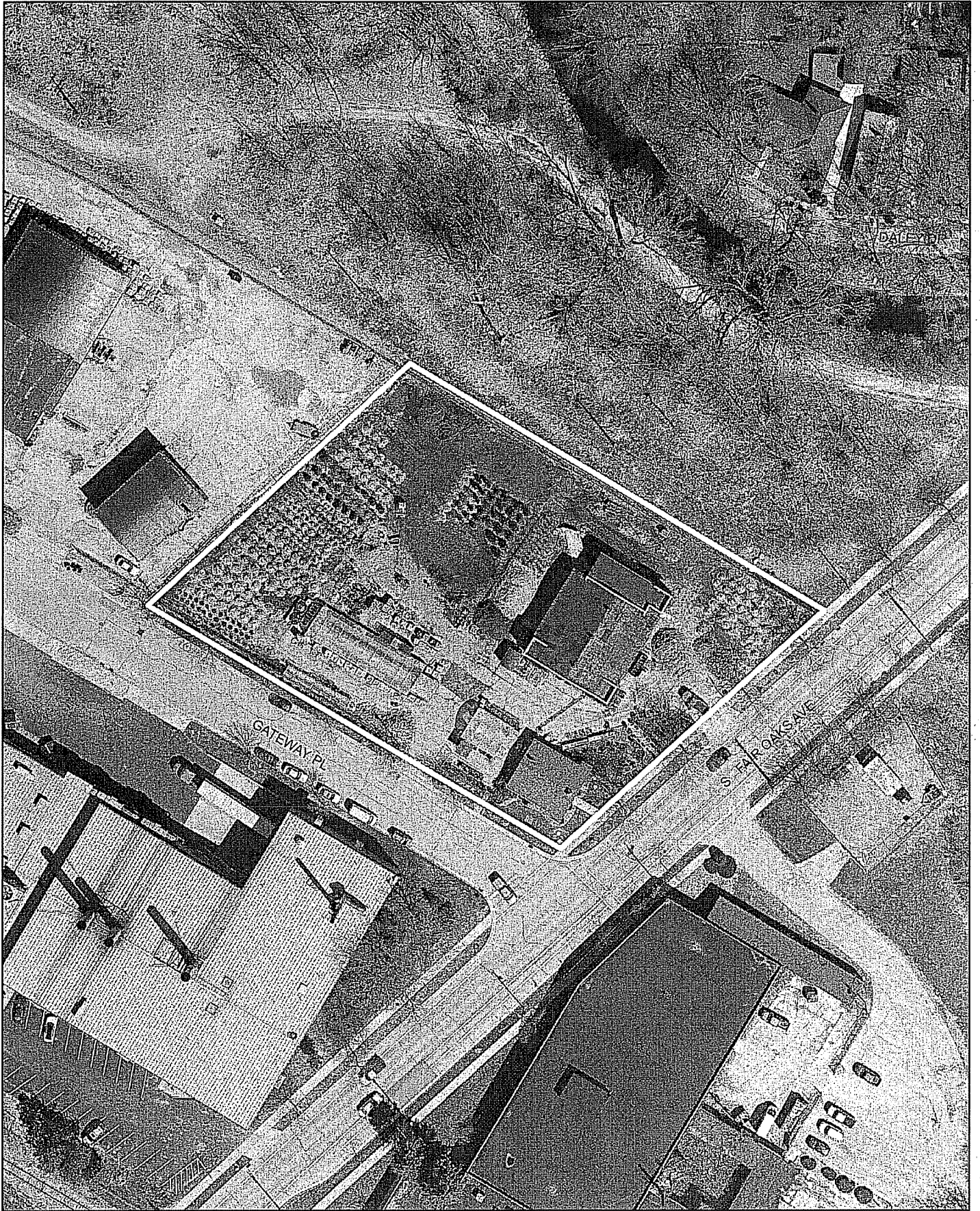
For Questions Contact: Tim Parks at: 261-9632 or [tparks@cityofmadison.com](mailto:tparks@cityofmadison.com) or City Planning at 266-4635



Scale : 1" = 400'

City of Madison, Planning Division : PPE : Date : 6 December 2016

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# 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](http://www.cityofmadison.com/developmentcenter/landdevelopment)

FOR OFFICE USE ONLY:	
Amt. Paid _____	Receipt No. _____
Date Received _____	
Received By _____	
Parcel No. _____	
Aldermanic District _____	
Zoning District _____	
Special Requirements _____	
Review Required By:	
<input type="checkbox"/> Urban Design Commission	<input type="checkbox"/> Plan Commission
<input type="checkbox"/> Common Council	<input type="checkbox"/> Other: _____

Form Effective: February 21, 2013

1. **Project Address:** 134 South Fair Oaks Avenue  
**Project Title (if any):** \_\_\_\_\_

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

- Zoning Map Amendment from \_\_\_\_\_ to \_\_\_\_\_
- 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:** Rich Arnesen      Company: Stone House Development, Inc.  
**Street Address:** 625 N. Segoe Rd. Suite #107      City/State: Madison, WI      Zip: 53705  
**Telephone:** (608) 251-60700      Fax: (608) 251-6077      Email: rba@stonehousedevlopment.com

**Project Contact Person:** Randy Bruce      Company: Knothe & Bruce Architects  
**Street Address:** 7601 University Ave. Ste 201      City/State: Middleton, WI      Zip: 53562  
**Telephone:** (608) 836-3690      Fax: ( ) N/A      Email: rbruce@knothebruce.com

**Property Owner (if not applicant):** \_\_\_\_\_  
**Street Address:** \_\_\_\_\_      City/State: \_\_\_\_\_      Zip: \_\_\_\_\_

### 4. Project Information:

Provide a brief description of the project and all proposed uses of the site: 80 unit apartment building with underground parking and commercial space, repurposing existing building

Development Schedule: Commencement Summer 2017      Completion Spring 2018

**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 1/2 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 <sup>2</sup> 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](mailto: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:  
District 6-Marsha Rummel, SASY Neighborhood Association, September 07, 2016

→ 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 & Heather Date: 9/29/2016 Zoning Staff: Jenny Kirchgatter Date: 9/29/2016

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

Name of Applicant Rich Armes Relationship to Property: Developer  
 Authorizing Signature of Property Owner Rich Armes Date 10/26/16

September 7, 2016

Alder Marsha Rummel  
Aldersperson – District # 6  
City-County Building  
Common Council Office  
210 Martin Luther King Jr. Blvd.  
Madison, WI 53709-0001



**Re: 134 South Fair Oaks Avenue**

Dear Marsha,

We are working with Stone House Development on a proposed redevelopment of 134 South Fair Oaks Avenue. I would like to take this opportunity to formally notify you that we will be submitting an application for conditional use approval for the proposed redevelopment.

The proposed development is a five-story, mixed-use building with approximately 3000 s.f. of commercial space and 91 apartments. Our intent is to integrate the existing Fair Oak Nursery storage building into the project as commercial space. Enclosed parking for 81 cars is provided in an underground parking garage with an additional 10 surface stall in front of the commercial space.

We look forward to working with you to design a successful development for this property. If you have any questions, please contact me at 608-836-3690 or [rbruce@knothebruce.com](mailto:rbruce@knothebruce.com).

Sincerely,



J. Randy Bruce, AIA  
Managing Member

cc. Brad Hinkfuss, 217 Corry St, Madison, WI 53704

October 26, 2016



Heather Stouder  
Department of Planning & Development  
City of Madison  
215 Martin Luther King Jr. Blvd  
PO Box 2985  
Madison, Wisconsin 53701

Re: Letter of Intent – Conditional Use  
134 South Fair Oaks Avenue  
Madison, WI

Ms. Heather Stouder,

The following is submitted together with the plans and application for the staff and plan commission consideration of approval.

**Organizational Structure:**

Owner/Developer:	Stone House Development, Inc 625 N. Segoe Rd., Suite 107 Madison, WI 53705 Phone: 608-251-6000 Contact: Rich Arnesen rarnesen@stonehousedev.com	Engineer:	Vierbicher Engineering, Inc. 999 Fourier Drive Suite 201 Madison, WI 53717 Phone: 608-862-0532 Fax: 608-826-0530 Contact: Joe Doyle jdoyle@vierbicher.com
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Architect:	Knothe & Bruce Architects, LLC 7601 University Avenue, Ste. 201 Middleton, WI 53562 Phone: 608-836-3690 Fax: 608-836-6934 Contact: Randy Bruce <a href="mailto:rbruce@knothebruce.com">rbruce@knothebruce.com</a>	Landscape Design:	Ken Saiki Design 303 S. Paterson Street Madison, WI 53703 Phone: 608-251-3600 Contact: Julia Schilling jschilling@ksd-la.com
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**Introduction:**

The proposed site is located on the corner at S. Fair Oaks Avenue and Gateway Place and is zoned TE – traditional employment. The proposal will create a mixed-use building with 2,500 square feet of commercial space and 80 apartments of workforce housing financed with the assistance of Low Income Housing Tax Credits. One of the two existing structures on the site will be repurposed and incorporated into the redevelopment.

**Project Description:**

The development entails the repurposing of the existing one-story industrial storage building and the construction of a new four-story, “L-shaped” building addition. The resulting building is a “U-shaped” structure that creates an attractive edge along the public streets and a private interior courtyard for

residents. The one-story wing will be subdivided so that 2,500 sf. commercial space will front along Fair Oaks Avenue and the residential community spaces will face the interior courtyard. The new building addition will include 80 apartments over 72 basement parking spaces.

The building addition architecture takes its cues from the existing building and utilizes a simple architecture that references both the residential and industrial characteristics of the area. The exterior materials will be a combination of masonry with a manufactured cut stone base and horizontal fiber-cement siding. Landscaping along the two streets enhance the building and provide an attractive buffer and streetscape.

The main building entry is located along the Fair Oaks Avenue façade near the juncture between the existing building and the new addition. An additional building entrance is provided toward the west end of the Gateway Avenue. Multiple townhome entries punctuate the remaining street facades and provide a distinctly residential scale to the development. Vehicular access to the underground parking is achieved from Gateway Place and generally screened from street view.

### **Affordable Housing**

The proposed project is designed and financed to provide affordable housing to a range of family sizes and incomes. Unit sizes range from studio to three bedroom apartments and income limits will range from 30% of the Dane County Median to 60% of the Dane County Median. Of the 80 apartments and townhomes, 68 will be income-restricted. All of the three bedroom townhomes will be income restricted providing an opportunity for families to live in high-quality housing environment.

This project will be financed with the assistance of federal LIHTC's that are administered by the Wisconsin Housing and Economic Development Authority. An application to WHEDA will be made in January 2017. If the application is successful, the tax-credits will be awarded in April or May of 2017.

### **Demolition**

The existing site currently has two existing structures on the site. One of the structures, a low-value one-story commercial structure is located on the corner and will be deconstructed to make room for the new building addition. The architecturally interesting masonry storage building will be repurposed. The building proposed for deconstruction is not a long-term durable structure and does not support a traditional streetscape.

We believe that the demolition standards can be met. The demolition allows for an important redevelopment that will provide affordable housing to this east side neighborhood and enhance the surrounding residential properties. A Re-use and Recycling Plan will be submitted prior to the deconstruction of the structure.

### **Conditional Use approvals:**

The proposed redevelopment requires a conditional use to allow multifamily dwellings in a mixed-use building.

### **Neighborhood Input:**

Two meetings with neighbors and neighborhood representatives have been held. Input from the first meeting resulted in the developer making significant changes to the proposal including reducing the building height and density and revising the exterior architecture. The second meeting held on October 25<sup>th</sup> was met with generally positive response from the neighbors.

**Site Development Data:**

**Densities:**

Lot Area	58,509 S.F. / 1.34 acres
Dwelling Units	80 DU
Lot Area / D.U.	171 S.F./D.U.
Density	59.7 units/acre
Usable Open Space	21,733 S.F.
Open Space / Bedroom	171 S.F. / Bdrm (20 S.F. Min. Required)
Lot Coverage	38,792 S.F. = 66% of total lot (85% Max.)
Commercial Area	
Building	1,800 S.F.
Patio	<u>700 S.F.</u>
Total	2,500 S.F.
Residential Area	87,088 S.F.

**Building Height:** 4 Stories

**Dwelling Unit Mix:**

Efficiency	12
One Bedroom	32
Two Bedroom	25
<u>Three Bedroom</u>	<u>11</u>
Total	80 units

**Vehicle Parking:**

Underground	72
<u>Surface</u>	<u>8</u>
Total	80 vehicle stalls

**Bicycle Parking:**

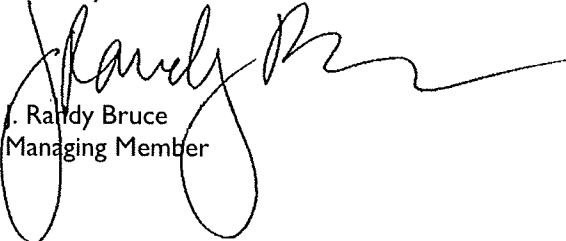
Underground Long-term -Residential	77
Surface - Residential	9
Surface - Guest	8
<u>Surface - Commercial</u>	<u>4</u>
Total	98 bike stalls

**Project Schedule:**

It is anticipated that construction will start Summer 2017 and be completed in Spring 2018.

Thank you for your time reviewing our proposal.

Sincerely,

  
J. Randy Bruce  
Managing Member





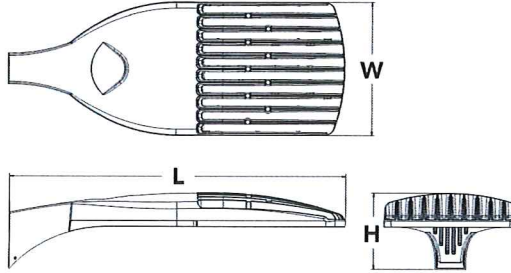
# D-Series Size 1 LED Area Luminaire

d<sup>series</sup>



## Specifications

<b>EPA:</b>	1.01 ft <sup>2</sup> (0.09 m <sup>2</sup> )
<b>Length:</b>	33" (83.8 cm)
<b>Width:</b>	13" (33.0 cm)
<b>Height:</b>	7-1/2" (19.0 cm)
<b>Weight (max):</b>	27 lbs (12.2 kg)



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

## 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
DSX1 LED	<b>Forward optics</b>	530 530 mA	30K 3000 K	T1S Type I Short	MVOLT <sup>3</sup>	<b>Shipped included</b>
	30C 30 LEDs (one engine)	700 700 mA	40K 4000K	T2S Type II Short	120 <sup>3</sup>	SPA Square pole mounting
	40C 40 LEDs (two engines)	1000 1000 mA (1 A)	50K 5000 K	T2M Type II Medium	208 <sup>3</sup>	RPA Round pole mounting
	60C 60 LEDs (two engines)		AMBPC Amber phosphor converted <sup>2</sup>	T3S Type III Short	240 <sup>3</sup>	WBA Wall bracket
	<b>Rotated optics<sup>1</sup></b>			T3M Type III Medium	277 <sup>3</sup>	SPUMBA Square pole universal mounting adaptor <sup>5</sup>
	60C 60 LEDs (two engines)			T4M Type IV Medium	347 <sup>4</sup>	RPUMBA Round pole universal mounting adaptor <sup>5</sup>
				TFTM Forward Throw Medium	480 <sup>4</sup>	<b>Shipped separately</b>
				TSVS Type V Very Short		KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>6</sup>

## Control options

### Shipped installed

PER	NEMA twist-lock receptacle only (no controls) <sup>7</sup>
PERS	Five-wire receptacle only (no controls) <sup>7,8</sup>
PER7	Seven-wire receptacle only (no controls) <sup>7,8</sup>
DMG	0-10V dimming driver (no controls) <sup>9</sup>
DCR	Dimmable and controllable via ROAM <sup>®</sup> (no controls) <sup>10</sup>
DS	Dual switching <sup>11,12</sup>
PIR	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>13</sup>
PIRH	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>13</sup>

PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>13</sup>
PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>13</sup>
BL30	Bi-level switched dimming, 30% <sup>12,14</sup>
BL50	Bi-level switched dimming, 50% <sup>12,14</sup>
PNMTDD3	Part night, dim till dawn <sup>15</sup>
PNMT5D3	Part night, dim 5 hrs <sup>15</sup>
PNMT6D3	Part night, dim 6 hrs <sup>15</sup>
PNMT7D3	Part night, dim 7 hrs <sup>15</sup>

### Other options

#### Shipped installed

HS	House-side shield <sup>16</sup>	DDBXD	Dark bronze
WTB	Utility terminal block <sup>17</sup>	DBLXD	Black
SF	Single fuse (120, 277, 347V) <sup>18</sup>	DNAXD	Natural aluminum
DF	Double fuse (208, 240, 480V) <sup>18</sup>	DWHXD	White
L90	Left rotated optics <sup>19</sup>	DDBTXD	Textured dark bronze
R90	Right rotated optics <sup>19</sup>	DBLTXD	Textured black
		DNATXD	Textured natural aluminum
		DWHGXD	Textured white

## Accessories

DL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>20</sup>
DL1347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>20</sup>
DL1480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>20</sup>
SCU	Shorting cap <sup>20</sup>
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
PUMBA DDBXD U <sup>6</sup>	Square and round pole universal mounting bracket (specify finish)
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>6</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.

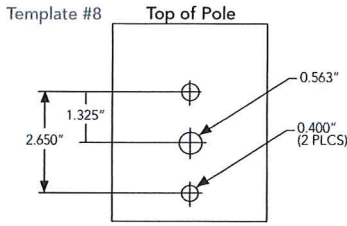
## NOTES

- Rotated optics available with 60C only.
- AMBPC not available with 530mA, 700mA, BLC, LCCO or RCCO.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
- Not available with single board, 530mA product (30C 530 or 60C 530 DS). Not available with BL30, BL50 or PNMT options.
- Available as a separate combination accessory: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.
- If ROAM<sup>®</sup> node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.
- DMG option for 347V or 480V requires 1000mA.
- Specifies a ROAM<sup>®</sup> enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM<sup>®</sup> deployment; must be purchased separately. Call 1-800-442-6745 or email: [sales@roomservices.net](mailto:sales@roomservices.net). N/A with PIR options DS, PERS, PER7, BL30, BL50 or PNMT options.

- Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR or PIRH.
- Requires an additional switched circuit.
- PIR and PIR1FC3V specify the [SensorSwitch SBGR-10-ODP](#) control; PIRH and PIRH1FC3V specify the [SensorSwitch SBGR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PERS, PER7 or PNMT options.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PERS, PER7, BL30 or BL50.
- Also available as a separate accessory; see Accessories information.
- WTB not available with DS.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Available with 60 LEDs (60C option) only.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.



## 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 D08XD

Visit Lithonia Lighting's **POLES CENTRAL** to see our wide selection of poles, accessories and educational tools.

\*Round pole top must be 3.25" O.D. minimum.  
\*\*For round pole mounting (RPA) only.

## Tenon Mounting Slipfitter \*\*

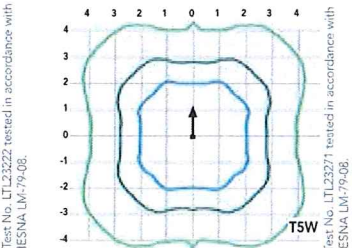
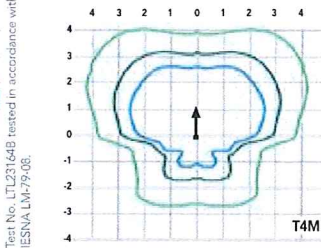
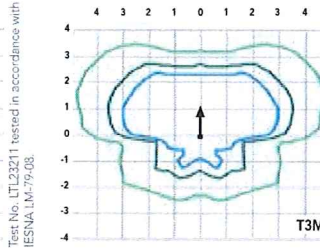
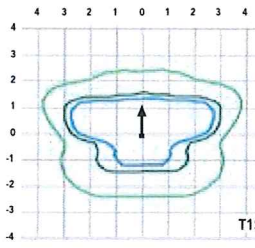
Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

## 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').

### LEGEND



## 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
<b>25°C / 77°F</b>	<b>1.00</b>
30°C / 86°F	1.00
40°C / 104°F	0.99

### 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	--	--
	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

### 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	0.98	0.96	0.91
	DSX1 LED 60C 700			
	1.0	0.99	0.99	0.99



# 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. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30C (30 LEDs)	530 mA	52 W	T1S	5,948	1	0	1	114	6,387	1	0	1	123	6,427	1	0	1	124	3,640	1	0	1	70
			T2S	6,132	1	0	1	118	6,585	2	0	2	127	6,626	2	0	2	127	3,813	1	0	1	73
			T2M	5,992	1	0	2	115	6,434	1	0	2	124	6,475	1	0	2	125	3,689	1	0	1	71
			T3S	5,985	1	0	1	115	6,427	1	0	2	124	6,467	1	0	2	124	3,770	1	0	1	73
			T3M	6,039	1	0	2	116	6,485	1	0	2	125	6,525	1	0	2	125	3,752	1	0	1	72
			T4M	6,121	1	0	2	118	6,573	1	0	2	126	6,614	1	0	2	127	3,758	1	0	1	72
			TFTM	6,030	1	0	2	116	6,475	1	0	2	125	6,515	1	0	2	125	3,701	1	0	1	71
			TSVS	6,370	2	0	0	123	6,840	2	0	0	132	6,883	2	0	0	132	3,928	2	0	0	76
			T5S	6,417	2	0	0	123	6,890	2	0	0	133	6,933	2	0	0	133	3,881	2	0	0	75
			T5M	6,428	3	0	1	124	6,902	3	0	1	133	6,945	3	0	1	134	3,930	2	0	1	76
			TSW	6,334	3	0	1	122	6,801	3	0	1	131	6,844	3	0	1	132	3,820	3	0	1	73
			BLC	4,735	1	0	1	91	5,085	1	0	2	98	5,116	1	0	1	98					
			LCCO	4,600	1	0	2	88	4,940	1	0	2	95	4,971	1	0	2	96					
			RCCO	4,600	1	0	2	88	4,940	1	0	2	95	4,971	1	0	2	96					
			T1S	7,554	1	0	1	111	8,112	2	0	2	119	8,163	2	0	2	120	4,561	1	0	1	67
	T2S	7,789	2	0	2	115	8,364	2	0	2	123	8,416	2	0	2	124	4,777	1	0	1	70		
	T2M	7,610	1	0	2	112	8,172	2	0	2	120	8,223	2	0	2	121	4,622	1	0	2	68		
	T3S	7,601	1	0	2	112	8,162	2	0	2	120	8,213	2	0	2	121	4,724	1	0	1	69		
	T3M	7,670	1	0	2	113	8,236	2	0	2	121	8,288	2	0	2	122	4,701	1	0	2	69		
	T4M	7,774	1	0	2	114	8,348	2	0	2	123	8,400	2	0	2	124	4,709	1	0	2	69		
	TFTM	7,658	1	0	2	113	8,223	1	0	2	121	8,275	1	0	2	122	4,638	1	0	2	68		
	TSVS	8,090	2	0	0	119	8,687	3	0	1	128	8,742	3	0	1	129	4,922	2	0	0	72		
	T5S	8,150	2	0	0	120	8,751	3	0	0	129	8,806	3	0	0	130	4,863	2	0	0	72		
	T5M	8,164	3	0	1	120	8,767	3	0	2	129	8,821	3	0	2	130	4,924	3	0	1	72		
	TSW	8,044	3	0	1	118	8,638	3	0	2	127	8,692	3	0	2	128	4,787	3	0	1	70		
	BLC	6,028	1	0	2	89	6,473	1	0	2	95	6,514	1	0	2	96							
	LCCO	5,856	1	0	2	86	6,289	1	0	2	92	6,328	1	0	2	93							
	RCCO	5,856	1	0	2	86	6,289	1	0	2	92	6,328	1	0	2	93							
	T1S	10,331	2	0	2	98	11,094	2	0	2	106	11,163	2	0	2	106							
	T2S	10,652	2	0	2	101	11,438	2	0	2	109	11,510	2	0	2	110							
T2M	10,408	2	0	2	99	11,176	2	0	3	106	11,246	2	0	3	107								
T3S	10,395	2	0	2	99	11,163	2	0	2	106	11,233	2	0	2	107								
T3M	10,490	2	0	2	100	11,264	2	0	2	107	11,335	2	0	2	108								
T4M	10,632	2	0	2	101	11,417	2	0	2	109	11,488	2	0	2	109								
TFTM	10,473	2	0	2	100	11,247	2	0	3	107	11,317	2	0	3	108								
TSVS	11,064	3	0	1	105	11,881	3	0	1	113	11,955	3	0	1	114								
T5S	11,145	3	0	1	106	11,968	3	0	1	114	12,043	3	0	1	115								
T5M	11,165	3	0	2	106	11,989	4	0	2	114	12,064	4	0	2	115								
TSW	11,001	3	0	2	105	11,813	4	0	2	113	11,887	4	0	2	113								
BLC	7,960	1	0	2	76	8,548	1	0	2	81	8,601	1	0	2	82								
LCCO	7,734	1	0	2	74	8,305	1	0	2	79	8,357	1	0	2	80								
RCCO	7,734	1	0	2	74	8,305	1	0	2	79	8,357	1	0	2	80								



## 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. Contact factory for performance data on any configurations not shown here.

#### Forward Optics

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
				40C (40 LEDs)																				
530 mA	68 W	T1S	7,861	1	0	1	116	8,441	2	0	2	124	8,494	2	0	2	125	4,794	1	0	1	71		
		T2S	8,105	2	0	2	119	8,704	2	0	2	128	8,758	2	0	2	129	5,021	1	0	1	74		
		T2M	7,920	2	0	2	116	8,504	2	0	2	125	8,557	2	0	2	126	4,858	1	0	2	71		
		T3S	7,910	1	0	2	116	8,494	2	0	2	125	8,547	2	0	2	126	4,966	1	0	1	73		
		T3M	7,982	2	0	2	117	8,571	2	0	2	126	8,625	2	0	2	127	4,941	1	0	2	73		
		T4M	8,090	1	0	2	119	8,687	2	0	2	128	8,741	2	0	2	129	4,950	1	0	2	73		
		TFTM	7,969	1	0	2	117	8,558	2	0	2	126	8,611	2	0	2	127	4,875	1	0	2	72		
		TSVS	8,419	2	0	0	124	9,040	3	0	1	133	9,097	3	0	1	134	5,174	2	0	0	76		
		TSS	8,481	2	0	0	125	9,107	3	0	1	134	9,164	3	0	1	135	5,111	2	0	0	75		
		TSM	8,496	3	0	1	125	9,123	3	0	2	134	9,180	3	0	2	135	5,175	3	0	1	76		
		TSW	8,371	3	0	2	123	8,989	3	0	2	132	9,045	3	0	2	133	5,031	3	0	1	74		
		BLC	6,255	1	0	2	92	6,717	1	0	2	99	6,759	1	0	2	99							
		LCCO	6,077	1	0	2	89	6,526	1	0	2	96	6,566	1	0	2	97							
		RCCO	6,077	1	0	2	89	6,526	1	0	2	96	6,566	1	0	2	97							
		700 mA	91 W	T1S	9,984	2	0	2	112	10,721	2	0	2	120	10,788	2	0	2	121	6,014	1	0	1	68
				T2S	10,294	2	0	2	116	11,054	2	0	2	124	11,123	2	0	2	125	6,299	2	0	2	71
				T2M	10,059	2	0	2	113	10,801	2	0	3	121	10,869	2	0	3	122	6,094	2	0	2	68
				T3S	10,046	2	0	2	113	10,788	2	0	2	121	10,855	2	0	2	122	6,229	1	0	2	70
				T3M	10,137	2	0	2	114	10,886	2	0	2	122	10,954	2	0	2	123	6,198	2	0	2	70
				T4M	10,275	2	0	2	115	11,033	2	0	2	124	11,102	2	0	2	125	6,209	1	0	2	70
TFTM	10,122			2	0	2	114	10,869	2	0	2	122	10,937	2	0	2	123	6,115	1	0	2	69		
TSVS	10,693			3	0	1	120	11,482	3	0	1	129	11,554	3	0	1	130	6,490	2	0	0	73		
TSS	10,771			3	0	1	121	11,566	3	0	1	130	11,639	3	0	1	131	6,411	2	0	0	72		
TSM	10,790			3	0	2	121	11,587	4	0	2	130	11,659	4	0	2	131	6,492	3	0	1	73		
TSW	10,632			3	0	2	119	11,417	4	0	2	128	11,488	4	0	2	129	6,311	3	0	2	71		
BLC	7,963			1	0	2	89	8,551	1	0	2	96	8,605	1	0	2	97							
LCCO	7,736			1	0	2	87	8,308	1	0	2	93	8,359	1	0	2	94							
RCCO	7,736			1	0	2	87	8,308	1	0	2	93	8,359	1	0	2	94							
1000 mA	138 W			T1S	13,655	2	0	2	99	14,663	3	0	3	106	14,754	3	0	3	107					
				T2S	14,079	2	0	2	102	15,118	3	0	3	110	15,212	3	0	3	110					
				T2M	13,756	2	0	3	100	14,772	3	0	3	107	14,864	3	0	3	108					
				T3S	13,739	2	0	2	100	14,754	2	0	2	107	14,846	3	0	3	108					
				T3M	13,864	2	0	2	100	14,888	3	0	3	108	14,981	3	0	3	109					
				T4M	14,052	2	0	2	102	15,090	3	0	3	109	15,184	3	0	3	110					
		TFTM	13,842	2	0	3	100	14,864	2	0	3	108	14,957	2	0	3	108							
		TSVS	14,623	3	0	1	106	15,703	4	0	1	114	15,801	4	0	1	115							
		TSS	14,731	3	0	1	107	15,818	3	0	1	115	15,917	3	0	1	115							
		TSM	14,757	4	0	2	107	15,846	4	0	2	115	15,945	4	0	2	116							
		TSW	14,540	4	0	2	105	15,614	4	0	2	113	15,711	4	0	2	114							
		BLC	10,516	1	0	2	76	11,292	1	0	2	82	11,363	1	0	2	82							
		LCCO	10,216	2	0	3	74	10,971	2	0	3	80	11,039	2	0	3	80							
		RCCO	10,216	2	0	3	74	10,971	2	0	3	80	11,039	2	0	3	80							

# 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. Contact factory for performance data on any configurations not shown here.

Forward Optics																									
LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)						
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW		
60C (60 LEDs)	530 mA	99 W	T1S	11,569	2	0	2	117	12,423	2	0	2	125	12,501	2	0	2	126	7,167	2	0	2	72		
			T2S	11,928	2	0	2	120	12,809	3	0	3	129	12,889	3	0	3	130	7,507	2	0	2	76		
			T2M	11,655	2	0	2	118	12,516	2	0	3	126	12,594	2	0	3	127	7,263	2	0	2	73		
			T3S	11,641	2	0	2	118	12,500	2	0	2	126	12,579	2	0	2	127	7,424	2	0	2	75		
			T3M	11,747	2	0	2	119	12,614	2	0	2	127	12,693	2	0	2	128	7,387	2	0	2	75		
			T4M	11,906	2	0	2	120	12,785	2	0	2	129	12,865	2	0	2	130	7,400	2	0	2	75		
			TFTM	11,728	2	0	2	118	12,594	2	0	3	128	12,673	2	0	3	128	7,288	1	0	2	74		
			TSVS	12,390	3	0	1	125	13,305	3	0	1	134	13,388	3	0	1	135	7,734	3	0	1	78		
			TSS	12,481	3	0	1	126	13,402	3	0	1	135	13,486	3	0	1	136	7,641	3	0	0	77		
			TSM	12,503	3	0	2	126	13,426	4	0	2	136	13,510	4	0	2	136	7,737	3	0	2	78		
			TSW	12,320	4	0	2	124	13,229	4	0	2	134	13,312	4	0	2	134	7,522	3	0	2	76		
			BLC	9,212	1	0	2	93	9,892	1	0	2	100	9,954	1	0	2	101							
			LCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98							
			RCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98							
			T1S	14,694	2	0	2	112	15,779	3	0	3	120	15,877	3	0	3	121	8,952	2	0	2	68		
			T2S	15,150	3	0	3	116	16,269	3	0	3	124	16,370	3	0	3	125	9,377	2	0	2	72		
			T2M	14,803	2	0	3	113	15,896	3	0	3	121	15,995	3	0	3	122	9,072	2	0	2	69		
			T3S	14,785	2	0	2	113	15,877	3	0	3	121	15,976	3	0	3	122	9,273	2	0	2	71		
	T3M	14,919	2	0	2	114	16,021	3	0	3	122	16,121	3	0	3	123	9,227	2	0	2	70				
	T4M	15,122	2	0	2	115	16,238	3	0	3	124	16,340	3	0	3	125	9,243	2	0	2	71				
	TFTM	14,896	2	0	3	114	15,996	2	0	3	122	16,096	2	0	3	123	9,103	2	0	2	69				
	TSVS	15,736	3	0	1	120	16,898	4	0	1	129	17,004	4	0	1	130	9,661	3	0	1	74				
	TSS	15,852	3	0	1	121	17,022	4	0	1	130	17,129	4	0	1	131	9,544	3	0	1	73				
	TSM	15,880	4	0	2	121	17,052	4	0	2	130	17,159	4	0	2	131	9,665	3	0	2	74				
	TSW	15,647	4	0	2	119	16,802	4	0	2	128	16,907	4	0	2	129	9,395	4	0	2	72				
	BLC	11,728	1	0	2	90	12,594	1	0	2	96	12,672	3	0	3	97									
	LCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94									
	RCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94									
	T1S	20,095	3	0	3	96	21,579	3	0	3	103	21,714	3	0	3	104									
	T2S	20,720	3	0	3	99	22,249	3	0	3	106	22,388	3	0	3	107									
	T2M	20,245	3	0	3	97	21,740	3	0	3	104	21,876	3	0	3	105									
	T3S	20,220	3	0	3	97	21,713	3	0	3	104	21,849	3	0	3	105									
	T3M	20,404	3	0	3	98	21,910	3	0	4	105	22,047	3	0	4	105									
	T4M	20,681	3	0	3	99	22,207	3	0	4	106	22,346	3	0	4	107									
	TFTM	20,372	3	0	3	97	21,876	3	0	4	105	22,013	3	0	4	105									
	TSVS	21,521	4	0	1	103	23,110	4	0	1	111	23,254	4	0	1	111									
TSS	21,679	4	0	1	104	23,280	4	0	1	111	23,425	4	0	1	112										
TSM	21,717	4	0	2	104	23,321	5	0	3	112	23,466	5	0	3	112										
TSW	21,399	4	0	3	102	22,979	5	0	3	110	23,122	5	0	3	111										
BLC	15,487	2	0	2	74	16,630	2	0	2	80	16,734	2	0	3	80										
LCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78										
RCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78										

## 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 ft<sup>2</sup>) 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 4000 K (70 minimum CRI) or optional 3000 K (70 minimum CRI) or 5000 K (70 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-efficiency 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

UL Listed for wet locations. 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.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





# D-Series LED Bollard



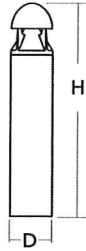
d-series

## Specifications

**Diameter:** 8" Round  
(20.3 cm)

**Height:** 42"  
(106.7 cm)

**Weight (max):** 27 lbs  
(12.25 kg)



Catalog  
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements

## Introduction

The D-Series LED Bollard is a stylish, energy-saving, long-life solution designed to perform the way a bollard should—with zero uplift. An optical leap forward, this full cut-off luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

## Ordering Information

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED													
Series	LEDs	Drive current		Color temperature		Distribution		Voltage	Control options	Other options	Finish (required)		
DSXB LED	Asymmetric 12C 12 LEDs <sup>1</sup>	350	350 mA	30K	3000 K	ASY	Asymmetric <sup>1</sup>	MVOLT <sup>5</sup>	Shipped installed PE Photoelectric cell, button type	Shipped installed SF Single fuse (120, 277, 347V) <sup>4,7</sup>	DWHXD	White	
		450	450 mA <sup>3,4</sup>	40K	4000 K	SYM	Symmetric <sup>2</sup>	120 <sup>5</sup>			DNAXD	Natural aluminum	
	Symmetric 16C 16 LEDs <sup>2</sup>	530	530 mA	50K	5000 K			208 <sup>5</sup>	DMG 0-10V dimming driver (no controls)	DF Double fuse (208, 240V) <sup>4,7</sup>	DDBXD	Dark bronze	
		700	700 mA	AMBPC	Amber phosphor converted			240 <sup>5</sup>			H24	24" overall height	DBLXD
				AMBLW	Amber limited wavelength <sup>3,4</sup>			277 <sup>5</sup>	ELCW Emergency battery backup <sup>6</sup>	H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet	DDBTXD	Textured dark bronze	
						347 <sup>4</sup>	L/AB	Without anchor bolts			DBLBXD	Textured black	
										L/AB4	4-bolt retrofit base without anchor bolts <sup>8</sup>	DNATXD	Textured natural aluminum
												DWHGXD	Textured white

## Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for DSXB<sup>8</sup>

## NOTES

- 1 Only available in the 12C, ASY version.
- 2 Only available in the 16C, SYM version.
- 3 Only available with 450 AMBLW version.
- 4 Not available with ELCW.
- 5 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), or photocontrol (PE option).
- 6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- 7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- 8 MRAB U not available with L/AB4 option.



## Performance Data

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 performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber					
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	
Asymmetric (12 LEDs)	350	16	1,194	75	1	0	1	1,283	80	1	0	1	1,291	81	1	0	1						
	530	22	1,719	78	1	0	1	1,847	84	1	0	1	1,859	85	1	0	1						
	700	31	2,173	70	1	0	1	2,335	75	1	0	1	2,349	76	1	0	1						
	Amber 450	16																348	22	1	0	1	
Symmetric (16 LEDs)	350	20	1,558	78	1	0	0	1,674	84	1	0	0	1,685	84	1	0	0						
	530	28	2,232	80	2	0	1	2,397	86	2	0	1	2,412	86	2	0	1						
	700	39	2,802	72	2	0	1	3,009	77	2	0	1	3,028	78	2	0	1						
	Amber 450	20																419	21	1	0	1	

**Note:** Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

## 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	1.00	0.98	0.97	0.95

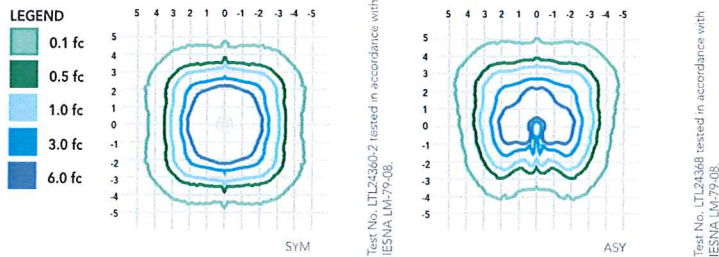
## Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Bollard homepage](#).

Isofootcandle plots for the DSXB LED 700 40K. Distances are in units of mounting height (3').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The rugged construction and maintenance-free performance of the D-Series LED Bollard is ideal for illuminating building entryways, walking paths and pedestrian plazas, as well as any other location requiring a low-mounting-height light source.

### CONSTRUCTION

One-piece 8-inch-round extruded aluminum shaft with thick side walls for extreme durability, and die-cast aluminum reflector and top cap. Die-cast aluminum mounting ring allows for easy leveling even in uneven areas and full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3-5/8" max. bolt circle template ensure stability. Overall height is 42" standard.

### FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Two 0% uplight optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

### ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

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

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.





# D-Series Size 1 LED Wall Luminaire



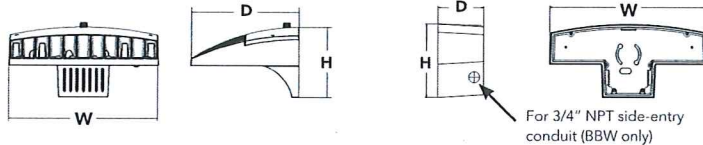
d-series

## Specifications Luminaire

<b>Width:</b>	13-3/4" (34.9 cm)	<b>Weight:</b>	12 lbs (5.4 kg)
<b>Depth:</b>	10" (25.4 cm)		
<b>Height:</b>	6-3/8" (16.2 cm)		

## Back Box (BBW, ELCW)

<b>Width:</b>	13-3/4" (34.9 cm)	<b>BBW Weight:</b>	5 lbs (2.3 kg)
<b>Depth:</b>	4" (10.2 cm)	<b>ELCW Weight:</b>	10 lbs (4.5 kg)
<b>Height:</b>	6-3/8" (16.2 cm)		



Catalog  
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements

## Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

## Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED											
Series	LEDs	Drive Current		Color temperature		Distribution		Voltage	Mounting	Control Options	
DSXW1 LED	10C 10 LEDs (one engine)	350	350 mA	30K	3000 K	T2S	Type II Short	MVOLT <sup>1</sup>	Shipped included (blank) Surface mounting bracket	Shipped installed PE Photoelectric cell, button type <sup>4</sup> DMG 0-10V dimming driver (no controls) PIR 180° motion/ambient light sensor, <15' mtg ht <sup>5</sup> PIRH 180° motion/ambient light sensor, 15-30' mtg ht <sup>5</sup> PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>5</sup> PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>5</sup> ELCW Emergency battery backup (includes external component enclosure) <sup>6</sup>	
	20C 20 LEDs (two engines)	700	700 mA	40K	4000 K	T2M	Type II Medium	120 <sup>1</sup>			
		1000	1000 mA (1 A)	50K	5000 K	T3S	Type III Short	208 <sup>1</sup>	BBW Surface-mounted back box (for conduit entry) <sup>3</sup>		
				AMBPC	Amber phosphor converted	T3M	Type III Medium	240 <sup>1</sup>			
						T4M	Type IV Medium	277 <sup>1</sup>			
						TFTM	Forward Throw Medium	347 <sup>2</sup>			
						ASYDF	Asymmetric diffuse	480 <sup>2</sup>			
Other Options						Finish (required)					
Shipped installed		Shipped separately <sup>8</sup>		DDBXD		Dark bronze		DSSXD	Sandstone	DWHGXD	Textured white
SF	Single fuse (120, 277 or 347V) <sup>7</sup>	BSW	Bird-deterrent spikes	DBLXD	Black	DDBTXD	Textured dark bronze	DSSTXD	Textured sandstone		
DF	Double fuse (208, 240 or 480V) <sup>7</sup>	WG	Wire guard	DNAXD	Natural aluminum	DBLXD	Textured black				
HS	House-side shield <sup>8</sup>	VG	Vandal guard	DWHXD	White	DNATXD	Textured natural aluminum				
SPD	Separate surge protection <sup>9</sup>	DDL	Diffused drop lens								

## 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 fusing (SF, DF options), or photocontrol (PE option).
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- PIR and PIR1FC3V specifies the [Sensor Switch SBGR-10-ODP](#) control; PIRH specifies the [Sensor Switch SBGR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at [www.lithonia.com](http://www.lithonia.com)
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- See the electrical section on page 3 for more details.

## Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory





# 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. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
(10 LEDs)	350mA	14W	T2S	1,415	0	0	1	101	1,520	0	0	1	109	1,529	0	0	1	109	894	0	0	1	64	
			T2M	1,349	0	0	1	96	1,449	0	0	1	104	1,458	0	0	1	104	852	0	0	1	61	
			T3S	1,400	0	0	1	100	1,503	0	0	1	107	1,512	0	0	1	108	884	0	0	1	63	
			T3M	1,386	0	0	1	99	1,488	0	0	1	106	1,497	0	0	1	107	876	0	0	1	63	
			T4M	1,358	0	0	1	97	1,458	0	0	1	104	1,467	0	0	1	105	858	0	0	1	61	
			TFTM	1,411	0	0	1	101	1,515	0	0	1	108	1,525	0	0	1	109	892	0	0	1	64	
			ASYDF	1,262	0	0	1	90	1,355	1	0	1	97	1,363	1	0	1	97	797	0	0	1	57	
			T2S	2,054	1	0	1	103	2,205	1	0	1	110	2,219	1	0	1	111	1,264	0	0	1	63	
			T2M	1,957	1	0	1	98	2,102	1	0	1	105	2,115	1	0	1	106	1,205	0	0	1	60	
			T3S	2,031	0	0	1	102	2,181	0	0	1	109	2,195	0	0	1	110	1,250	0	0	1	63	
			T3M	2,010	1	0	1	101	2,159	1	0	1	108	2,172	1	0	1	109	1,237	0	0	1	62	
			T4M	1,970	1	0	1	99	2,115	1	0	1	106	2,128	0	0	1	106	1,212	0	0	1	61	
	TFTM	2,047	0	0	1	102	2,198	0	0	1	110	2,212	0	0	1	111	1,260	0	0	1	63			
	ASYDF	1,830	1	0	1	92	1,966	1	0	1	98	1,978	1	0	1	99	1,127	0	0	1	56			
	T2S	2,623	1	0	1	97	2,816	1	0	1	104	2,834	1	0	1	105	1,544	0	0	1	57			
	T2M	2,499	1	0	1	93	2,684	1	0	1	99	2,701	1	0	1	100	1,472	0	0	1	55			
	T3S	2,593	1	0	1	96	2,785	1	0	1	103	2,802	1	0	1	104	1,527	0	0	1	57			
	T3M	2,567	1	0	1	95	2,757	1	0	1	102	2,774	1	0	1	103	1,512	0	0	1	56			
	T4M	2,515	1	0	1	93	2,701	1	0	1	100	2,718	1	0	1	101	1,481	0	0	1	55			
	TFTM	2,614	1	0	1	97	2,807	1	0	1	104	2,825	1	0	1	105	1,539	0	0	1	57			
	ASYDF	2,337	1	0	1	87	2,510	1	0	1	93	2,526	1	0	1	94	1,376	0	0	1	51			
	T2S	3,685	1	0	1	92	3,957	1	0	1	99	3,982	1	0	1	100	2,235	1	0	1	58			
	T2M	3,512	1	0	1	88	3,771	1	0	1	94	3,795	1	0	1	95	2,130	1	0	2	55			
	T3S	3,644	1	0	1	91	3,913	1	0	1	98	3,938	1	0	1	98	2,210	1	0	2	57			
	T3M	3,607	1	0	1	90	3,874	1	0	1	97	3,898	1	0	1	97	2,187	1	0	2	56			
	T4M	3,534	1	0	1	88	3,795	1	0	1	95	3,819	1	0	1	95	2,143	1	0	2	55			
	TFTM	3,674	1	0	1	92	3,945	1	0	1	99	3,969	1	0	1	99	2,228	1	0	2	57			
	ASYDF	3,284	1	0	1	82	3,527	1	0	1	88	3,549	1	0	1	89	1,991	1	0	2	51			
	(20 LEDs)	350mA	24W	T2S	2,820	1	0	1	118	3,028	1	0	1	126	3,047	1	0	1	127	1,777	1	0	1	74
				T2M	2,688	1	0	1	112	2,886	1	0	1	120	2,904	1	0	1	121	1,693	1	0	1	71
				T3S	2,789	1	0	1	116	2,995	1	0	2	125	3,013	1	0	2	126	1,757	0	0	1	73
				T3M	2,761	1	0	1	115	2,964	1	0	2	124	2,983	1	0	2	124	1,739	1	0	1	72
				T4M	2,705	1	0	1	113	2,904	1	0	2	121	2,922	1	0	2	122	1,704	1	0	1	71
				TFTM	2,811	1	0	1	117	3,019	1	0	2	126	3,038	1	0	2	127	1,771	0	0	1	74
				ASYDF	2,513	1	0	1	105	2,699	1	0	2	112	2,716	1	0	2	113	1,584	1	0	1	66
				T2S	4,079	1	0	1	113	4,380	1	0	1	122	4,408	1	0	1	122	2,504	1	0	1	70
T2M				3,887	1	0	1	108	4,174	1	0	1	116	4,200	1	0	1	117	2,387	1	0	1	66	
T3S				4,034	1	0	1	112	4,332	1	0	1	120	4,359	1	0	1	121	2,477	1	0	1	69	
T3M				3,993	1	0	1	111	4,288	1	0	1	119	4,315	1	0	1	120	2,451	1	0	2	68	
T4M				3,912	1	0	2	109	4,201	1	0	2	117	4,227	1	0	1	117	2,402	1	0	1	67	
TFTM		4,066	1	0	1	113	4,367	1	0	1	121	4,394	1	0	1	122	2,496	1	0	1	69			
ASYDF		3,635	1	0	2	101	3,904	1	0	2	108	3,928	1	0	2	109	2,232	1	0	1	62			
T2S		5,188	1	0	1	110	5,571	1	0	1	119	5,606	1	0	1	119	3,065	1	0	1	65			
T2M		4,945	1	0	1	105	5,310	1	0	1	113	5,343	1	0	1	114	2,921	1	0	1	62			
T3S		5,131	1	0	1	109	5,510	1	0	2	117	5,544	1	0	2	118	3,031	1	0	1	64			
T3M		5,079	1	0	2	108	5,454	1	0	2	116	5,488	1	0	2	117	3,000	1	0	1	64			
T4M		4,976	1	0	2	106	5,343	1	0	2	114	5,377	1	0	2	114	2,939	1	0	1	63			
TFTM		5,172	1	0	2	110	5,554	1	0	2	118	5,589	1	0	2	119	3,055	1	0	1	65			
ASYDF		4,624	1	0	2	98	4,966	1	0	2	106	4,997	1	0	2	106	2,732	1	0	1	58			
T2S		7,205	1	0	1	97	7,736	1	0	1	105	7,785	1	0	1	105	4,429	1	0	1	61			
T2M		6,866	1	0	2	93	7,373	1	0	2	100	7,419	1	0	2	100	4,221	1	0	2	58			
T3S		7,124	1	0	2	96	7,650	1	0	2	103	7,698	1	0	2	104	4,380	1	0	2	60			
T3M		7,052	1	0	2	95	7,736	1	0	2	105	7,620	1	0	2	103	4,335	1	0	2	59			
T4M		6,910	1	0	2	93	7,420	1	0	2	100	7,466	1	0	2	101	4,248	1	0	2	58			
TFTM		7,182	1	0	2	97	7,712	1	0	2	104	7,760	1	0	2	105	4,415	1	0	2	60			
ASYDF		6,421	1	0	2	87	6,895	2	0	2	93	6,938	2	0	2	94	3,947	1	0	2	54			



## 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	0.98

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXW1 LED 20C 1000 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	0.95	0.93	0.88

### Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	24 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	74 W	0.69	0.40	0.35	0.30	0.23	0.17

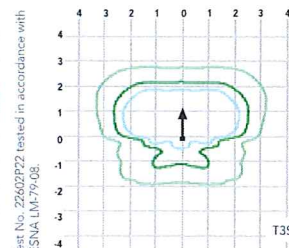
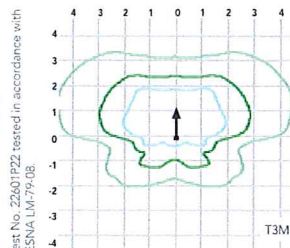
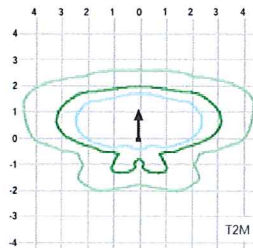
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 1 homepage](#).

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').

#### LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc

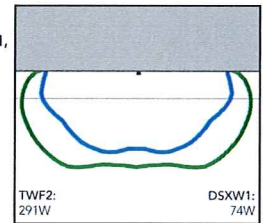


Distribution overlay comparison to 250W metal halide.

#### LEGEND

- DSXW1, 0.5 fc
- TWF2, 0.5 fc

10' W Sidewalk LLDs:  
TWF2 = 0.72  
DSXW1 = 0.95



DSXW1 LED 20C 40K 1000 T3M, TWF2 250M Pulse, 15' Mounting Ht

## Options and Accessories



T3M (left), ASYDF (right) lenses



HS - House-side shields



BSW - Bird-deterrent spikes



WG - Wire guard



VG - Vandal guard



DDL - Diffused drop lens

## FEATURES & SPECIFICATIONS

#### INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

#### CONSTRUCTION

Two-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. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

#### 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 textured and non-textured finishes.

#### OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (80 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 CRI) configurations.

#### ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a

power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

#### INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

#### LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

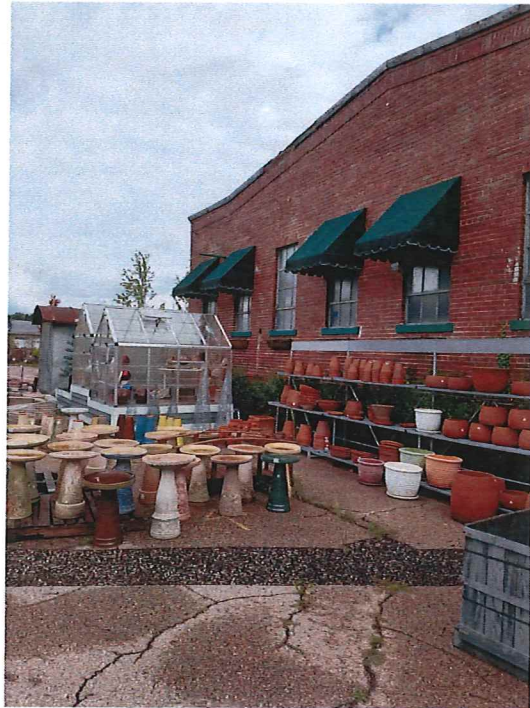
#### WARRANTY

Five-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



EXISTING BUILDING TO BE REPURPOSED



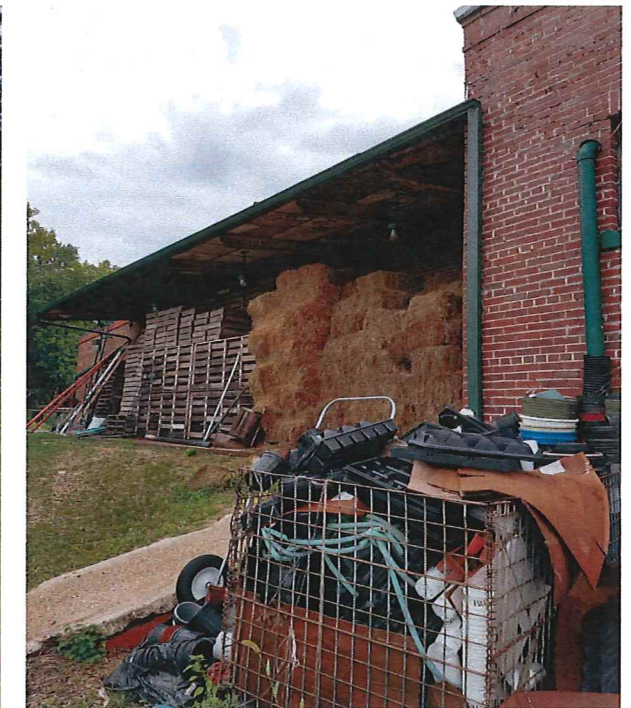
Southwest Elevation



Southeast Elevation along S. Fair Oaks



Northeast Elevation



Northwest Elevation

VIEW ALONG GATEWAY PLACE



134 S. Fair Oaks Avenue  
Madison, WI  
October 26, 2016



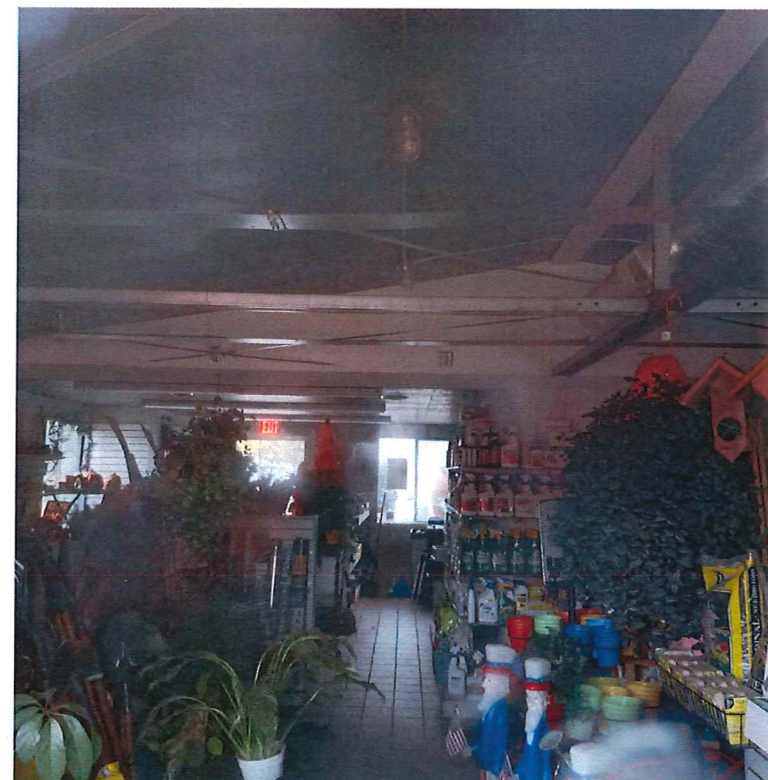
BUILDING TO BE DEMOLISHED



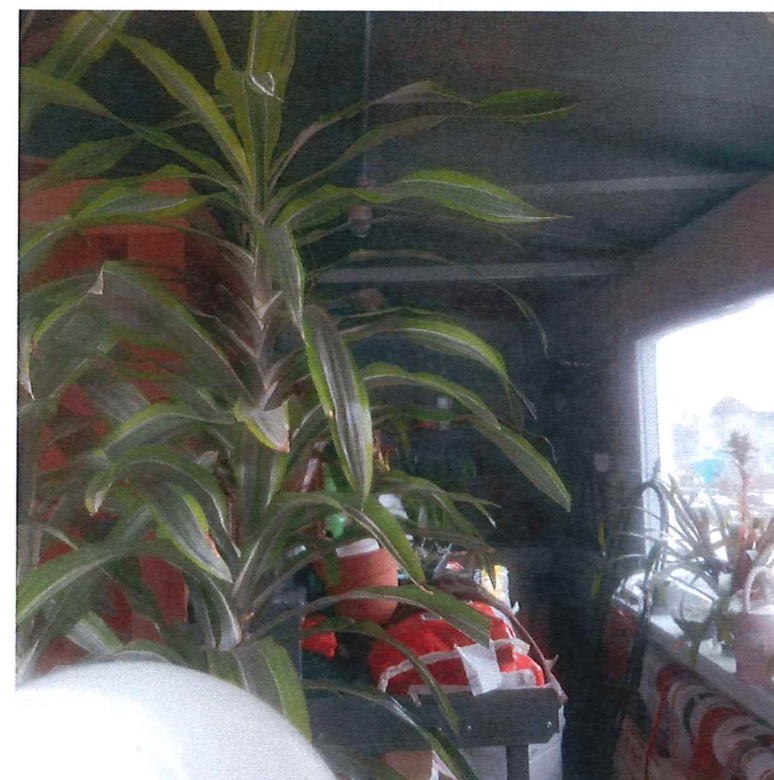
View from corner of Gateway Place & S. Fair Oaks



View from S. Fair Oaks Avenue



Interior



134 S. Fair Oaks Avenue  
Madison, WI  
October 26, 2016