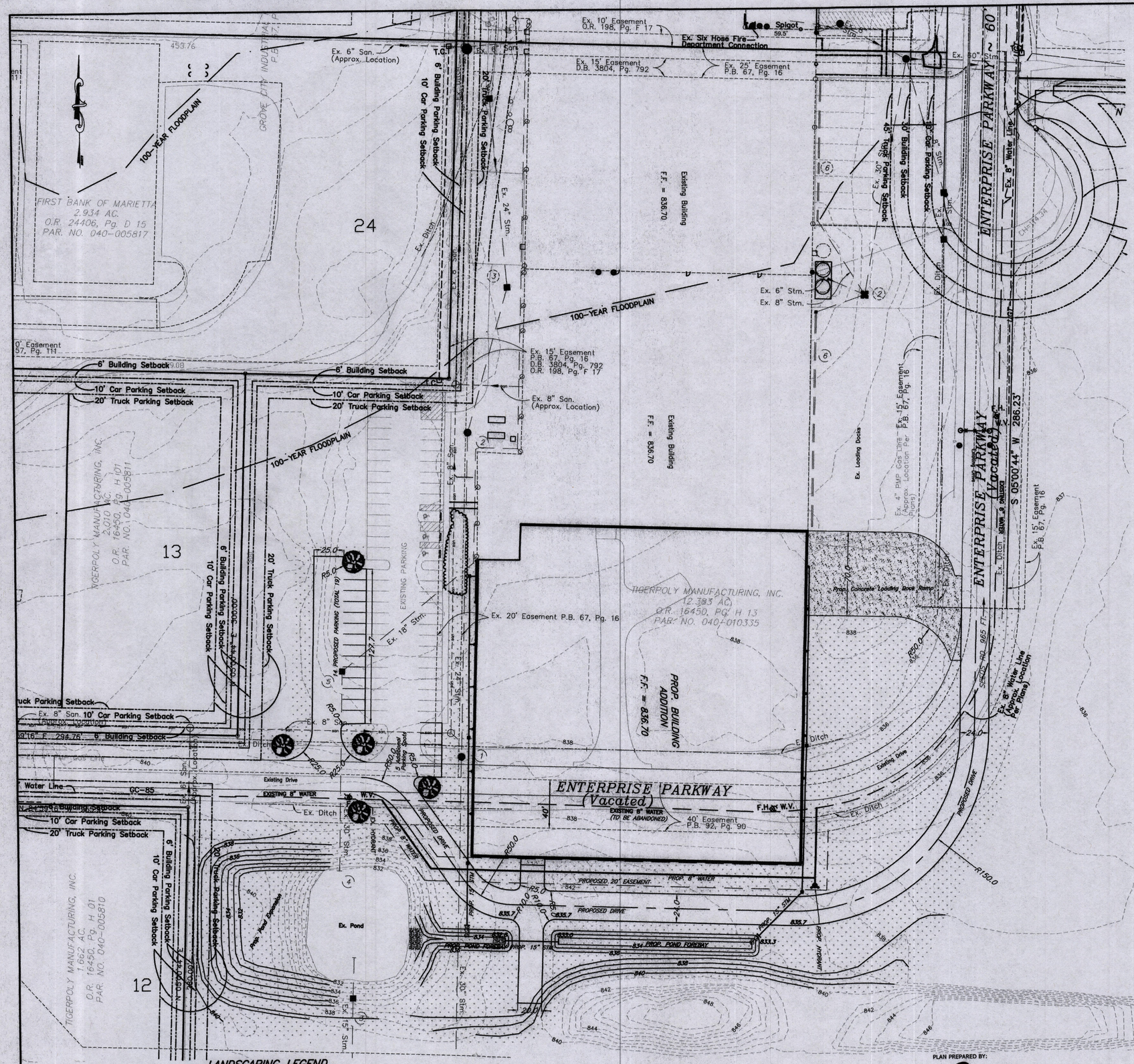
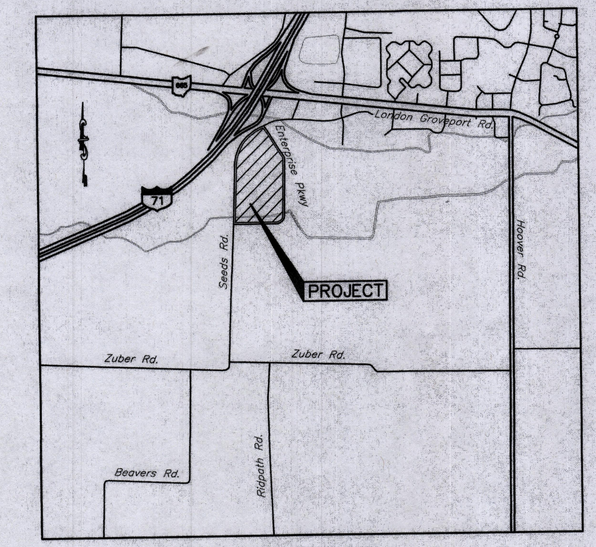
Tigerpoly Development Plan – Project Narrative

Tigerpoly has been a part of Grove City for many years and continues to grow. Their last expansion in 2006 proved adequate for a few years, but now it is time to expand again. The expansion will allow them to move several machines from Plant 3, as well as permit space to install many new machines. The new plant expansion will be a 73,000 SF metal building, to the south, which will expand Tigerpoly's manufacturing capacity with much needed space for more machines. The new building has been designed to reflect the current plant as closely as possible to ensure a seamless look. The site work will include, extending the South portion of Enterprise road, increasing the existing pond, and adding 18 new parking spaces. Project storm water will be addressed with the pond expansion and all storm water calculations will be in accordance with City of Grove City's Storm Water Basins and Lake Design Manual.





VICINITY MAP
Not to Scale

SITE DATA:

Parcel ID: 040-010335-00
Certified Street Address: 6231 Enterprise Pkwy.
Existing Zoning District: IND-1

Total Site Area: 12.383 Acres

Total Affected Disturbed Area: 4.35 Ac.

Height of Proposed Building Addition: 36 Ft.-0 In.
Area of Proposed Building Addition: 73,931 S.F.
Use of Proposed Building Addition: Manufacturing

CERTIFICATION:

I hereby certify that this drawing was prepared from an actual field survey of the premises, and that said drawing exhibits the topographic features within the limits specified by the owner and/or his agent.
The location of underground utilities shown hereon have been obtained by field location and/or available records. It is believed that they are essentially correct, but the engineer does not guarantee their accuracy or completeness.

This Certification was made by me on this 8th day of May, 20 15.

STATE OF OHIO
ROBERT ALAN BEITER
E-71768
REGISTERED
PROFESSIONAL ENGINEER

Robert A. Beiter, Ohio Professional Engineer No. 71768

CITY ADMINISTRATOR — DATE
SERVICE DIRECTOR — DATE
REVIEW FOR THE CITY OF GROVE CITY — DATE
JACKSON TOWNSHIP FIRE DEPARTMENT — DATE

Flood Note:

The subject building addition lies within the limits of Flood Zone "X" as shown on the Flood Insurance Rate Map for Franklin County, Ohio.
Map Numbers:
39049C0404K, June 17, 2008

LANDSCAPING LEGEND

DECIDIOUS SHADE TREE, 2-INCH MIN. CALIPER

PERMANENT SEEDED GREENSPACE AREAS

PLAN PREPARED BY:
CROSSING WATERS ENGINEERING, INC.
P.O. Box 27
260 S. Main St., Suite A
Sugar Grove, Ohio 43155
(740) 746-0250
www.crossingwaterseng.com

NO.	REVISION	BY	DATE

RECORD DRAWING
BY:
DATE:
CONTRACTOR:
CONSTRUCTED:
NOTES:

CROSSING WATERS ENGINEERING, INC.
P.O. BOX 27, 260 S. MAIN ST., SUITE A
SUGAR GROVE, OHIO 43155 (740) 746-0250

TIGERPOLY MANUFACTURING, INC.
6231 ENTERPRISE PWWY
GROVE CITY, FRANKLIN COUNTY, OHIO
DEVELOPEMENT PLAN

CONTRACT		JOB NO.:	CW-14006
DRAWN BY:	RAB	SCALE:	1" = 40'
CHECKED BY:	JAS	DATE:	05/08/2015
APPROVED BY:	RAB	SHEET:	1 OF 1

d#series

D-Series Size 2
LED Wall Luminaire

Catalog Number

Notes

Type

Specifications

Luminaire

Width: 18-1/2" (47.0 cm) **Weight:** 21 lbs (9.5 kg)

Depth: 10" (25.4 cm)

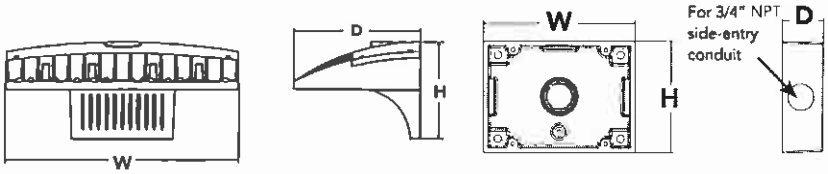
Height: 7-5/8" (19.4 cm)

Back Box (BBW)

Width: 5-1/2" (14.0 cm) **BBW Weight:** 1 lbs (0.5 kg)

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

Height: 4" (10.2 cm)



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 76% in energy savings over comparable 400W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBTXD

DSXW2 LED

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options	Other Options	Finish (required)
DSXW2 LED	20C 20 LEDs (two engines) 30C 30 LEDs (three engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium ASYDF Asymmetric diffuse	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 [2] 480 [2]	**Shipped included** (blank) Surface mounting bracket **Shipped separately** [3] BBW Surface-mounted back box (for conduit entry)	**Shipped installed** PE Photoelectric cell, button type [4] PER NEMA twist-lock receptacle only (no controls) DMG 0-10V dimming driver (no controls) DCR Dimmable and controllable via ROAM® (no controls) [5] PIRH 180° motion/ambient light sensor, 15-30' mtg ht [6]	**Shipped installed** SF Single fuse (120, 277, 347V) [7] DF Double fuse (208, 240, 480V) [7] HS House-side shield [8] SPD Separate surge protection [9] **Shipped separately** [3] BSW Bird-deterrent spikes WG Wire guard VG Vandal 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

NOTES

1. 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).
2. Available with 30 LED/700mA options only (DSXW2 LED 30C 700). DMG option not available.
3. Also available as a separate accessory; see Accessories information
4. Photocontrol (PE) requires 120, 208, 240 or 277 voltage option. Not available with motion/ambient light sensors (PIR or PIRH)
5. Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347V, 480V or PIRH. Additional hardware and services required for ROAM® deployment, must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
6. 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) or DCR. Dimming driver standard.
7. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
8. See the electrical section on page 2 for more details.
9. 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) [1]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [2]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [1]
SC U	Shorting cap
DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW2WG U	Wire guard accessory
DSXW2VG U	Vandal guard accessory
DSXW2BBW DDBXD U	Back box accessory (specify finish)

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

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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

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A) 120V	208V	240V	277V	347V	480V
20C	350	25 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	-	-
	1000	73 W	0.68	0.39	0.34	0.29	-	-
30C	350	36 W	0.33	0.19	0.17	0.14	-	-
	530	54 W	0.50	0.29	0.25	0.22	-	-
	700	71 W	0.66	0.38	0.33	0.28	0.23	0.16
	1000	109 W	1.01	0.58	0.50	0.44	-	-

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW2 LED 30C 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)

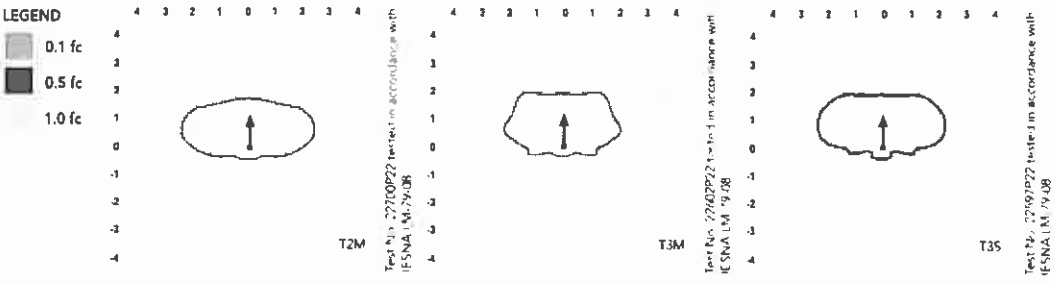
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.92	0.87

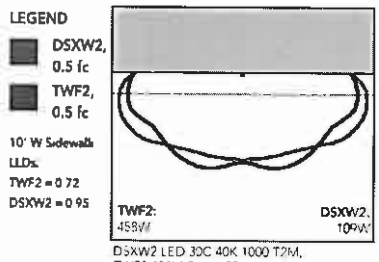
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 2 homepage.

Isofootcandle plots for the DSXW2 LED 30C 1000 40K Distances are in units of mounting height (25')



Distribution overlay comparison to 400W metal halide



DSXW2 LED 30C 40K 1000 T2M, TWF2 400M Pulse 25' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 2 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 (L87/100,000 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 to confirm which versions are qualified

WARRANTY

Five year limited warranty Full warranty terms located at 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

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