



**HOUSING  
OPPORTUNITY  
DEVELOPMENT  
CORPORATION**

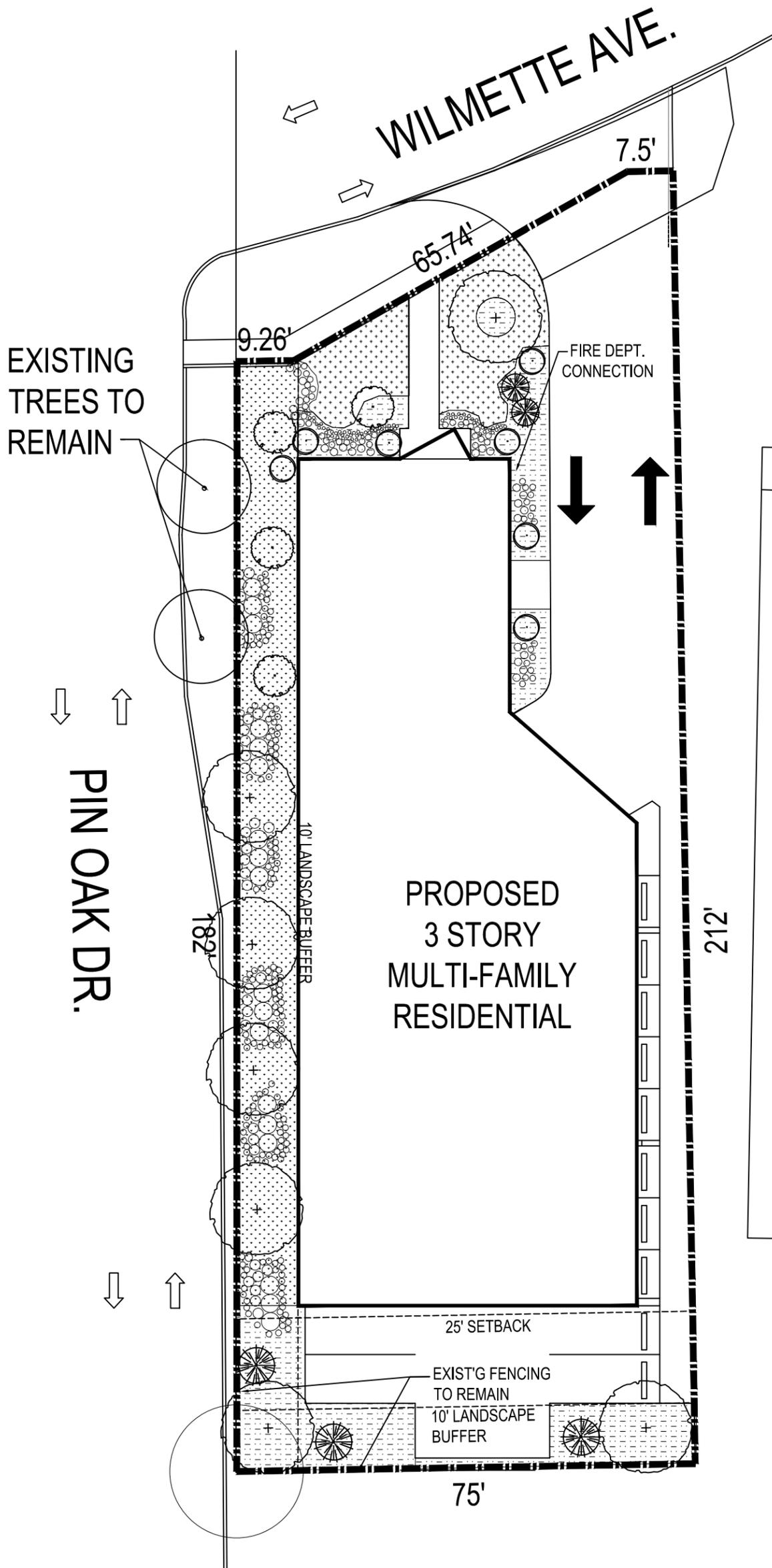
2001 Waukegan Rd, PO Box 480 ♦ Techny, Illinois 60082  
(847) 564-2900 ♦ (847) 564-2992 fax ♦ [hodc@hodc.org](mailto:hodc@hodc.org) ♦ [www.hodc.org](http://www.hodc.org)

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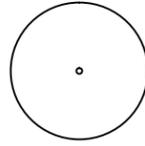
Re: 1925 Wilmette Avenue  
Preliminary Plan Application  
Landscape Plan

Attached is a proposed landscape plan for the proposed site prepared by Cordogan Clark & Associates.

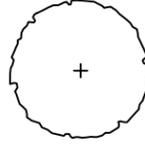




## LANDSCAPE SCHEDULE



**EXISTING TREE TO REMAIN**  
PENDING TREE CONDITION SURVEY & APPROVAL OF VILLAGE ARBORIST



**SHADE TREE**  
4" MIN. CALIPER, MEETING DIVERSITY REQUIREMENTS



**ORNAMENTAL TREE**  
3" MIN. CALIPER, 8' MIN. HEIGHT @ PLANTING



**EVERGREEN TREE**  
6' MIN. HEIGHT @ PLANTING



**LARGE DECIDUOUS SHRUB**  
3' MIN. HEIGHT @ PLANTING



**SMALL DECIDUOUS SHRUB**  
18' MIN. HEIGHT @ PLANTING



**TALL GRASSES**



**EVERGREEN SHRUB**



**SWALE PLANTINGS**  
NATIVE SPECIES, BIO-SWALE TOLERANT PLANTINGS



**SMALL SHRUBS & FLOWERS**



**MULCH**



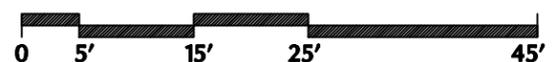
**MESIC GRASS**



**TURF GRASS**

**ALL NEW TREES AND SHRUBS WILL BE INSTALLED IN SIZES AS REQUIRED BY THE VILLAGE OF WILMETTE.**

**ALL PLANTING BEDS, TREES, AND SHRUBS TO BE MULCHED.**



SHADE TREES



HONEYLOCUST



RIVER BIRCH



WHITE OAK

ORNAMENTAL TREES



JAPANESE MAPLE

MEDIUM SHRUBS



SWAMP MILKWEED



SNEEZEWEED



LOBELIA

GRASSES



CATTAILS



PRAIRIE CORDGRASS



PALM SEDGE



BOXWOOD



COMMON ARROWHEAD

SMALL FLOWERING SHRUBS



PURPLE STEM ASTER



MONKEY FLOWER



MARSH MARIGOLD



PURITY CONEFLOWER

OCTOBER 10, 2016



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Re: 1925 Wilmette Avenue  
Preliminary Plan Application  
Lighting Plan

Attached is a proposed lighting plan prepared by Cordogan Clark & Associates.



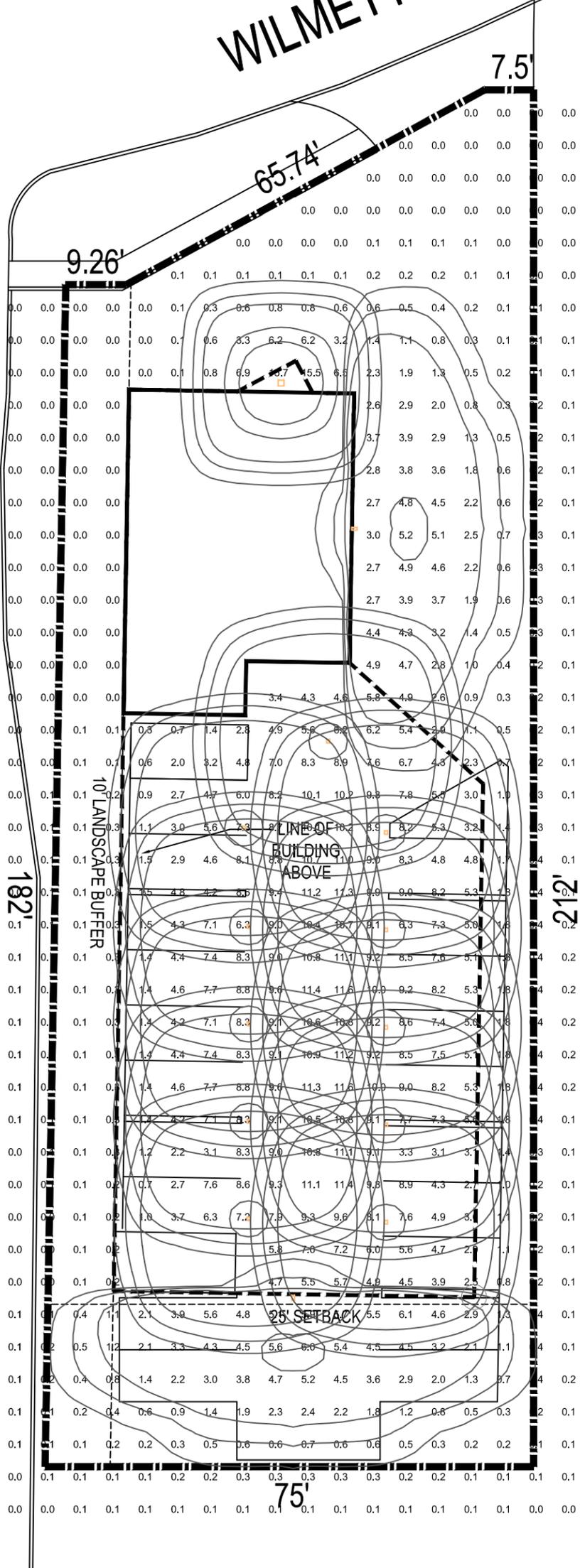
WILMETTE AVE.

7.5'

65.74'

9.26'

PIN OAK DR.

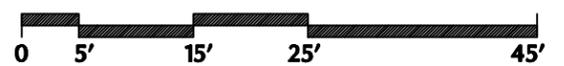


STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Front	+	1.5 fc	17.4 fc	0.0 fc	N/A	N/A
Garage	+	6.74 fc	11.79 fc	1.16 fc	10.2:1	5.8:1
Site	+	1.1 fc	17.4 fc	0.0 fc	N/A	N/A

LUMINAIRE SCHEDULE

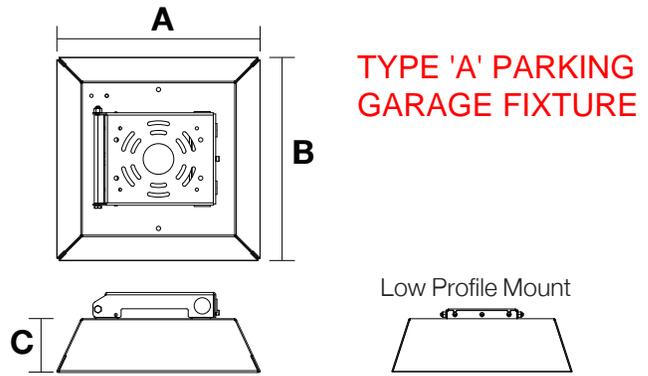
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
□	E	22	PGA-1-TS-16LC-5-4K	15" X 6-1/2" LED LUMINAIRE LED WITH OPTICS		pga-1-ts-16lc-5-4k.ies	Absolute	1.00	26
□	F	2	LRC-B16-1-LED-E1-WST	LRC CANOPY LUMINAIRE ABSOLUTE PHOTOMETRIC IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		LRC-B16-1-LED-E1-WST.ies	Absolute	1.00	49.9
□	G	4	DSX1 LED 1 30B53040K SR2 MVOLT HS	DSX1 LED 1 LIGHT ENGINE, 530MA DRIVER, 4000K LEDS, HOUSE SIDE SHIELD, TYPE 2 OPTICS	ONE 55.8-WATT LED, AIMED DOWN POS.	DSX1-LED-1-30B530-40K-SR2-MVOLT-HS.ies	Absolute	1.00	55.7



October 4, 2016



## Dimensional Drawings



Fixture	A	B	C	Max. LEDs	Lbs
<b>PGA</b>	15"	15"	4.5"	48	15

The new **PGA** LED luminaire from Visionaire, simplifies the task of selecting the best solution for LED parking garage lighting. The design of the luminaire, compliments the design of the pre-cast concrete coffer; creating an integrated lighting effect; and maximizes the perceived lighting coverage. It is an ideal replacement for the high-maintenance fluorescent or HID fixtures of yesterday.

The LED housing is formed aluminum with internal heat sink for maximum heat dissipation; with either 16, 32 or 48 LEDs. The formed aluminum driver compartment allows the driver to operate cooler for long life. Available with a Low Profile Ceiling Mount Bracket, a Speed Mount Bracket for surface conduit mounting, or Pendant Mounting.

Six optical distribution patterns are available. Choose between 4000 or 5000 Kelvin temperature of the LED's.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The **PGA** LED series is an exceptional choice for parking garage lighting and other ceiling mount applications.

Model	Optics	Source	Milliamps	Kelvin	Voltage	Mounting	Finish	Options
<b>PGA-1</b>	<b>Type I (T1)</b> 	# of LEDs 16 <b>(16LC)</b>	mA 350 <b>(3)</b>	<b>4000K</b> * Neutral white <b>(4K)</b>	120-277 * Universal voltage <b>(UNV)</b>	Low Profile Mount Ceiling Mount *No Conduit Feed <b>(LPM)</b>	Bronze <b>(BZ)</b>	0-10v Dimming Driver No Controls <b>(DIM)</b>
	<b>Type II (T2)</b> 	32 <b>(32LC)</b>	<b>530</b> <b>(5)</b>	5000K * Cool white <b>(5K)</b>	480 <b>(5)</b>	<b>Speed Mount Bracket™</b> Ceiling Mount <b>(SMB)</b>	Black <b>(BK)</b>	Motion Sensor/Control Watt Stopper FSP-211 22' Distance @ 8' CLG HT Must specify Dimming Driver. *120V-277V Only <b>(WSC)</b>
	<b>Type III (T3)</b> 	48 <b>(48LC)</b>	700 <b>(7)</b>		347 <b>(8)</b>	Pendant Mount 12" (PM12) 24" (PM24) 36" (PM36)	White <b>(WH)</b>	Motion Sensor 20' Distance @ 8' CLG HT Must specify Dimming Driver. Can use with Wireless Control *120V-277V Only <b>(MS)</b>
	<b>Type IV (T4)</b> 						Graphite <b>(GP)</b>	10kV Surge Protector <b>(10KV)</b>
	<b>Type V (T5)</b> 						Grey <b>(GY)</b>	Emergency Battery Pack *120V-277V Only <b>(EBPL)</b>
	<b>Type V-W (T5W)</b> 						Silver Metallic <b>(SL)</b>	<b>T.B.S.</b>
							Custom Color <b>(CC)</b>	<b>T.B.S.</b>

For more detailed information on mounting, wiring or installation instructions, please consult factory. If poles are not ordered with fixtures, please specify mounting requirements. This document contains proprietary information of Visionaire Lighting, LLC. Any use of this information requires the written approval of Visionaire Lighting, LLC. In keeping with our TQM policy of continuous improvement, Visionaire reserves the right to change any specifications contained herein without prior notice.

**DESCRIPTION**

The LRC LED Recessed Canopy Luminaire is specifically designed for recessed applications in single or double skin canopies. Three specialized optics are optimized for efficiency and uniformity, delivering high light levels on task. Typical applications include retail gas stations, convenience stores, banks and pharmacy drive thru canopies. UL/cUL listed for wet locations.

**TYPE B FLUSH CANOPY FIXTURE**

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

**SPECIFICATION FEATURES**

**Construction**

Heavy-duty cast aluminum housing with aluminum mounting frame. Wet location driver enclosure is elevated to prevent water ingress. 1/2" knockouts provided for wiring connections. IP66 Rated.

**Optics**

Dedicated optical cavities for the array of 16 individual LEDs to maximize the efficiency and control of the distribution out of each module. To enhance visual comfort, a glare-reducing optical system is utilized to maximize delivered lumens while minimizing glare. Scalable in 1, 2 or 4 Light Square LED modules to optimize cost and lumen output. Each reflector is precision manufactured via injection molding and coated with a highly reflective optical coating via vacuum metallization. Two symmetric optics and one asymmetric optic are specifically designed for efficiency and

uniformity. Offered standard in 4000K (+/- 275K) CCT and nominal 70 CRI. Optional 6000K CCT with nominal 70 CRI, and 3000K with nominal 80 CRI.

**Electrical**

LED driver is enclosed in a wet location box, designed to manage thermals for longevity. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Optional proprietary circuit module designed to withstand 10kV of transient line surge. 90% lumen maintenance expected at 60,000 hours. The LRC LED Recessed Canopy Luminaire is suitable for operation in -40°C to 40°C ambient operations.

**Mounting**

Designed to recess in single or double skin canopies. Luminaire can be installed from above or below canopy, through 14" square cutout in the canopy.

**Finish**

Housing and lens frame are finished in Super TGIC polyester powder cost paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard housing and lens frame trim finished in true white color. Optional lens frame trim colors include white, grey, black, bronze, dark platinum, and graphite metallic. RAL and color matches available.

**Warranty**

Five-year warranty.

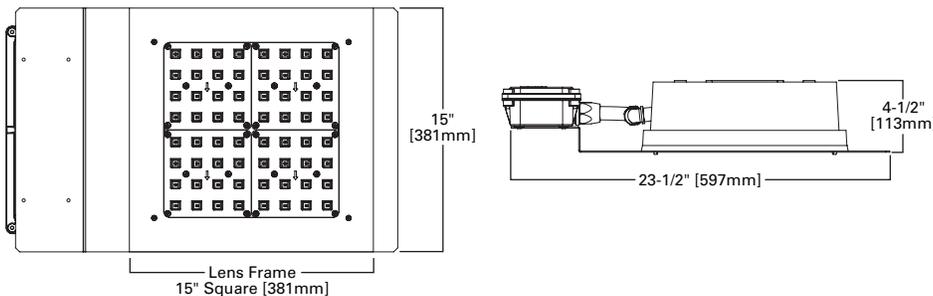


**LRC LED RECESSED CANOPY**

1, 2 or 4 Light Squares  
Solid State LED

CANOPY LUMINAIRE

**DIMENSIONS**



**CERTIFICATION DATA**

UL/cUL Listed  
LM79 / LM80 Compliant  
ARRA Compliant  
ISO 9001  
DesignLights Consortium® Qualified\*

**ENERGY DATA**

**Electronic LED Driver**  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz  
-40°C Minimum Temperature  
40°C Maximum Ambient Temperature

**SHIPPING DATA**

**Approximate Net Weight:**  
20-29 lbs. (9.07-13.15 kgs.)

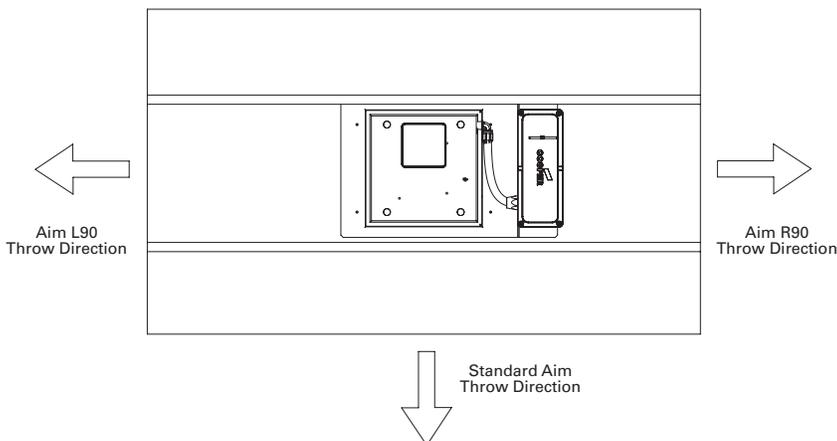


POWER AND LUMENS BY NUMBER OF LEDs

Number of LEDs	LED Drive Current	Input Wattage	Input Current (Amps)		Optics	MST	VAT	WST
			120V	277V				
16	700mA	37W	0.33	0.15	Lumens	3,099	2,987	3,026
					BUG Rating	2-0-0	2-0-0	1-0-0
	950mA	50W	0.41	0.19	Lumens	3,841	3,702	3,751
					BUG Rating	2-0-1	2-0-0	2-0-0
32	350mA	35W	0.30	0.14	Lumens	3,448	3,323	3,367
					BUG Rating	2-0-0	2-0-0	2-0-0
	450mA	46W	0.40	0.18	Lumens	4,285	4,130	4,184
					BUG Rating	2-0-1	2-0-0	2-0-0
	700mA	73W	0.62	0.23	Lumens	6,048	5,829	5,906
					BUG Rating	3-0-1	3-0-0	2-0-0
64	350mA	69W	0.59	0.28	Lumens	6,679	6,439	6,524
					BUG Rating	3-0-1	3-0-0	2-0-0
	450mA	88W	0.77	0.36	Lumens	8,212	8,019	8,125
					BUG Rating	3-0-1	3-0-0	3-0-0

NOTE: Lumen values tested at 4000K CCT.

VAT OPTIC ORIENTATION



LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96

ORDERING INFORMATION

Sample Number: LRC-B64-4-LED-E1-VAT

Product Family <sup>1</sup>	Generation	Number of LEDs	Drive Current <sup>2</sup>	Lamp Type	Voltage	Distribution	Trim Color
LRC=LED Recessed Canopy	B=B	16=16 32=32 64=64	1=950mA 3=350mA 4=450mA 7=700mA	LED=Solid State Light Emitting Diodes	E1=Electronic 120-277V 347=347V 480=480V	VAT=Vertical Aysmmetric WST=Wide Symmetric MST=Medium Symmetric	[Blank]=True White AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Option (Add as Suffix)						Accessories (Order Separately)	
10K=10kV Surge Module 2L=Two Circuits <sup>3</sup> L90=Optics Rotated 90° Left <sup>4</sup> R90=Optics Rotated 90° Right <sup>4</sup> 7060=70 CRI/6000K CCT <sup>5</sup> 8030=80 CRI/3000K CCT <sup>5</sup>						MA1253=10kV Circuit Module Replacement	

Notes:  
 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.  
 2. 950mA available only in 16 LEDs. 700mA available in 16 or 32 LEDs. 450mA available only in 32 or 64 LEDs. 350mA only available in 32 or 64 LEDs.  
 3. Not available in 347V or 480V. Not available with 16 LEDs. Not available with 32 LEDs in 350mA or 450mA.  
 4. Only applies with VAT distribution. MST and WST distributions are symmetrical.  
 5. Consult Factory for lead times and lumen multiplier.



## 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 performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 70 CRI)					50K (5000K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	530	10C 530 --K	20 W	T2S	1724	1	0	1	86	1807	1	0	1	90
				T2M	1729	1	0	1	86	1812	1	0	1	91
				T3S	1709	1	0	1	85	1792	1	0	1	90
				T3M	1753	1	0	1	88	1838	1	0	1	92
				T4M	1753	1	0	1	88	1837	1	0	1	92
	700	10C 700 --K	27 W	TFTM	1766	1	0	1	88	1851	1	0	1	93
				T2S	2234	1	0	1	83	2341	1	0	1	87
				T2M	2241	1	0	1	83	2349	1	0	1	87
				T3S	2216	1	0	1	82	2322	1	0	1	86
				T3M	2272	1	0	1	84	2381	1	0	1	88
	1000	10C 1000 --K	40 W	T4M	2272	1	0	1	84	2381	1	0	1	88
				TFTM	2289	1	0	1	85	2399	1	0	1	89
				T2S	2992	1	0	1	75	3136	1	0	1	78
				T2M	3001	1	0	1	75	3146	1	0	1	79
				T3S	2967	1	0	1	74	3110	1	0	1	78
20C (20 LEDs)	530	20C 530 --K	36 W	T3M	3043	1	0	1	76	3189	1	0	1	80
				T4M	3043	1	0	1	76	3189	1	0	1	80
				TFTM	3066	1	0	1	77	3213	1	0	1	80
				T2S	3545	1	0	1	98	3715	1	0	1	103
				T2M	3556	1	0	1	99	3727	1	0	1	104
	700	20C 700 --K	47 W	T3S	3515	1	0	1	98	3685	1	0	1	102
				T3M	3606	1	0	2	100	3779	1	0	2	105
				T4M	3605	1	0	1	100	3779	1	0	1	105
				TFTM	3632	1	0	1	101	3807	1	0	1	106
				T2S	4357	1	0	1	93	4566	1	0	1	97
	1000	20C 1000 --K	75 W	T2M	4370	1	0	1	93	4580	1	0	1	97
				T3S	4320	1	0	1	92	4528	1	0	1	96
				T3M	4431	1	0	2	94	4644	1	0	2	99
				T4M	4430	1	0	1	94	4644	1	0	2	99
				TFTM	4464	1	0	1	95	4678	1	0	1	100
530	20C 530 --K	36 W	T2S	5745	2	0	2	77	6020	2	0	2	80	
			T2M	5763	1	0	2	77	6039	2	0	2	81	
			T3S	5697	1	0	1	76	5970	1	0	2	80	
			T3M	5843	1	0	2	78	6123	2	0	2	82	
			T4M	5843	1	0	2	78	6123	1	0	2	82	
700	20C 700 --K	47 W	TFTM	5887	1	0	2	78	6169	1	0	2	82	

### 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	1.02
10°C	1.01
20°C	1.00
25°C	1.00
30°C	1.00
40°C	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

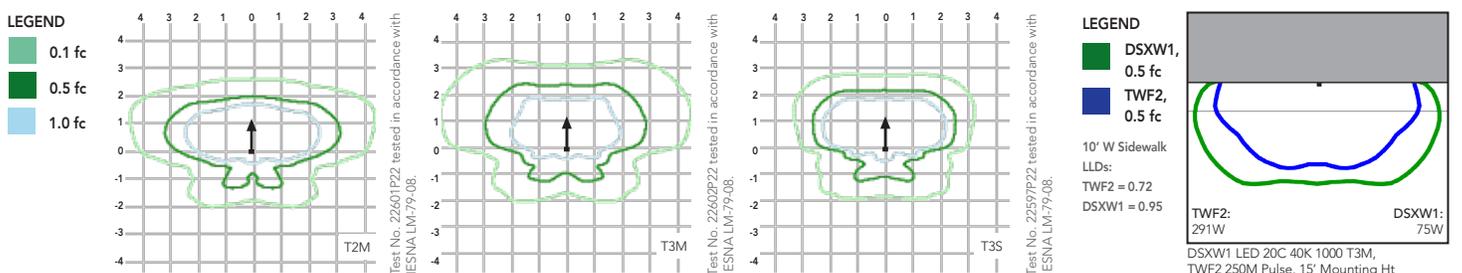
### Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
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	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	75 W	0.69	0.40	0.35	0.30	-	-

## 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').



## 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.

### 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 3000K (80 min. CRI),

4000K (70 min. CRI) or 5000K (65 min. 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 an expected life of 100,000 hours. Surge protection device 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.

### WARRANTY

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

**Note:** Specifications subject to change without notice.

