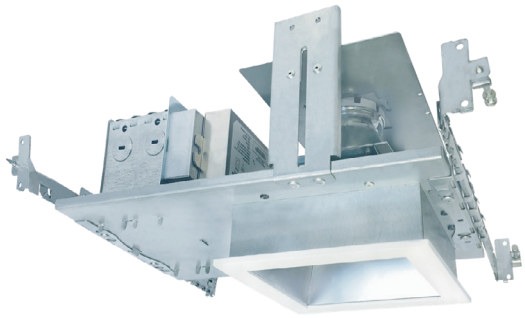
Catalog # : _____ Project : _____ Type : _____

Prepared By : _____ Date : _____

4" LED Architectural Square Downlight (LAD4SQ)

New Construction



OVERVIEW	
Lumen Package (lm)	2,275
Wattage Range (W)	22
Efficacy Range (LPW)	103
Weight lbs (kg)	7.0 (3.2)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

New Construction Housing/Plaster Frame

- Designed for use in non-insulated ceiling where insulation must be kept a minimum of 3" from the fixture.
- Junction box listed for (8) #12 AWG (four in, four out) 90°C conductors and thru branch wiring.
- Junction box contains (5) 1/2" knockouts with trade pry-out slots and (4) Romex cable clamp knockouts.
- Frame accommodates up to 1 ¼" ceiling thickness.
- Standard 24" nailer bars ship with each unit and field installed.

Optical System

- LED source provides superior lumen output with maximum visual comfort.
- Tailored, medium flood and flood beam optics deliver glare free illumination.
- Cast aluminum white painted trim, to deliver low glare lumination of the space.
- Trims are retained with friction blades to hold the flange tight to the finished ceiling surface.
- Available in 3500K, and 4000K color temperatures per ANSI C78.377.
- Minimum CRI of 80.

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (1% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz.
- L70 Calculated Life: > 50k Hours projected @ 25°C per IESNA TM-21-11.
- Total harmonic distortion: <20%
- Power factor: >.90
- Input power stays constant over life.
- Compatible with Triac (forward-phase or leading-edge), ELV (reverse-phase or trailing edge) dimming only at 120 Vac.
- Driver can be accessed from below plenum for servicing.
- High-efficacy LEDs with integrated circuit board mount directly to an extruded aluminum heatsink to maximize heat dissipation and promote long life.
- Remote Emergency Battery (120-277V) field installed is available to meet critical life safety lighting requirements. The 90-minute battery provides 7.8 watts constant power to the LED system, ensuring code compliance.To calculate light output during emergency mode(EM battery 7.8 watts x LPW of fixture being powered - see spec sheet). Detailed wiring diagram and installation instructions located on website.

Installation

- 24" nailer bars provide stability and support for installation on joists, T-Grid and suspended ceilings.
- Housing can be positioned at any point within the 24" joist span.
- Score lines allow adjustment for 12" joists without tools.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/terms-conditions-warranty/ for more information.
- 1 Year warranty on optional Emergency Battery. Test regularly in accordance with local codes.

Listings

- cETLus Listed to UL 1598 and UL 8750 standards for 25°C Ambient applications.
- RoHS Compliant.
- EMI/RFI compliant with FCC 47CFR Part 15 Class B Consumer limits and Class A Commercial and Industrial.
- Damp location rated.
- Title 24 Compliant.

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4" LED Architectural Square Downlight (LAD4SQ)

Type : _____

Have questions? Call us at (800) 436-7800

ORDERING GUIDE

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TYPICAL ORDER EXAMPLE: LAD4SQ LED 22L UNV DIM1 35 MF TSQ4 WH							
Prefix	**Light Source**	**Lumen Package**	**Voltage**	**Driver**	**Color Temperature**	**CRI**	**Beam Optics[2]**
LAD4SQ - 4" Square Downlight	**LED**	**22L** - 2200 Lumens	**UNV** - 120-277V	**DIM1** - Dims to 1% (0-10V dimming)	**35** - 3500K **40** - 4000K	**Blank** - 80 CRI	**MF** - Medium Flood **FL** - Flood

Need more information?
Click here for our glossary

Have additional questions?
Call us at (800) 436-7800

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Order Number	Description
CA658633	EM - Emergency Battery

REFLECTOR ORDERING INFORMATION

Reflector Type	Reflector Finish
TSQ4FX - Open Reflector	**WH** - White Open Reflector with White Trim Ring
TSQ4AJ - Adjustable 0-30° tilt	
TSQ4WW - Wall Wash	

FEATURES & SPECIFICATIONS

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Delivered Lumens[3]

Lumen Package	Distribution	3500K		4000K		Wattage
		Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
22L	MF	2275	103.4	2275	103.4	22
	FL	2243	2243	102.0	102.0	

Electrical Data - Current Draw AMPS[4]

Lumen Package	120V	208V	240V	277V
22L	0.18	0.11	0.09	0.08

1 90 CRI requires 55 day leadtime & 100 MOQ; Consult Factory.
2 Refer to IES Files for Beam Spread.
3 Electrical Data at 25C (77F)/ Actual Wattage may differ +/-10%
4 LED Chips are frequently updated therefore values may change.

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4" LED Architectural Square Downlight (LAD4SQ)

Type : _____

Have questions? Call us at (800) 436-7800

PHOTOMETRICS

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Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on https://www.lsicorp.com/ for detailed photometric data.

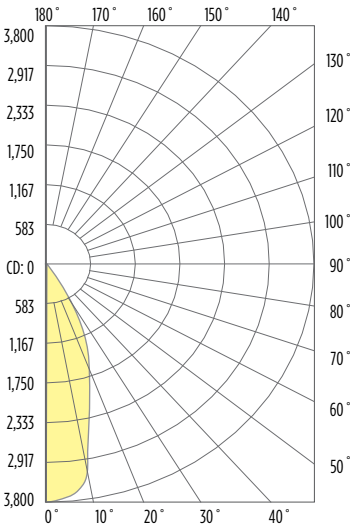
LAD4SQ-LED-22L-35-MF-TSQ4FX-WH

Lumens: 2,275
Watts: 21.3
Efficacy: 107

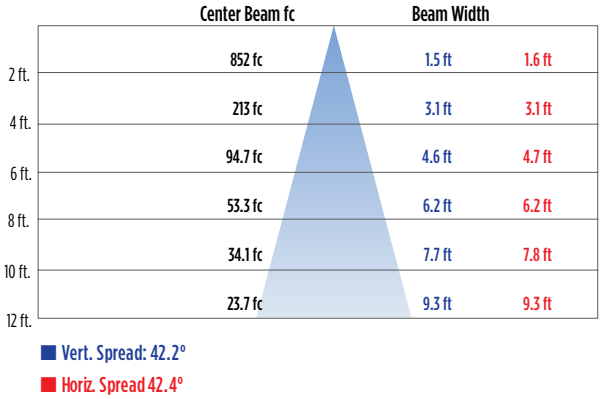
ZONAL LUMEN SUMMARY		
Zone	**Lumens**	**%Fixture**
0-10	318	14.0%
10-20	715	31.4%
20-30	619	27.2%
30-40	430	18.9%
40-50	152	6.7%
50-60	30	1.3%
60-70	8	0.3%
70-80	3	0.1%
80-90	1	0.0%
90-100	0	0.0%
0-180	2,275	100.0%

CANDELA TABLE	
Degree Vertical	**Candela**
0	3,409
5	3,390
10	3,198
15	2,624
20	1,859
25	1,329
30	955
35	625
40	308
45	100
50	54
55	24
60	14
65	5
70	3
75	3
80	0
85	0
90	0

Polar Candela Distribution



Illuminance at a Distance



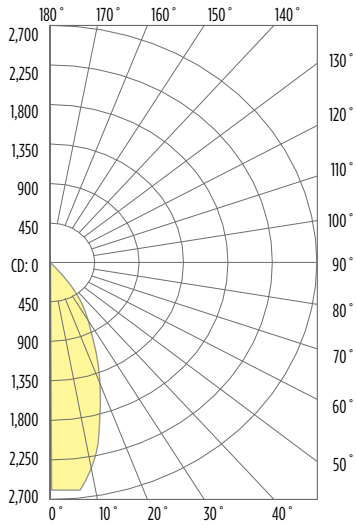
LAD4SQ-LED-22L-35-FL-TSQ4FX-WH

Lumens: 2,243
Watts: 21.3
Efficacy: 105

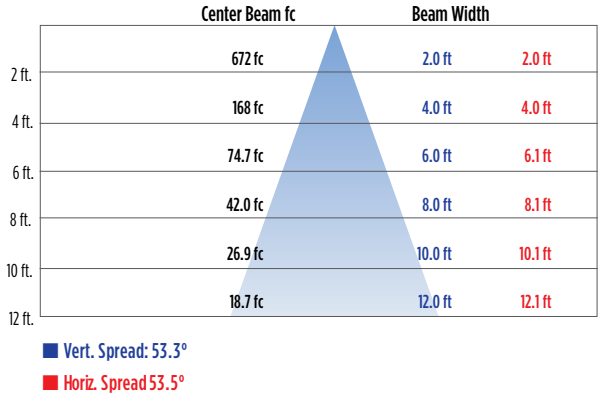
ZONAL LUMEN SUMMARY		
Zone	**Lumens**	**%Fixture**
0-10	251	
10-20	662	
20-30	703	
30-40	446	
40-50	143	
50-60	27	
60-70	7	
70-80	3	
80-90	1	0.0%
90-100	0	0.0%
0-180	2,243	100.0%

CANDELA TABLE	
Degree Vertical	**Candela**
0	2,689
5	2,664
10	2,546
15	2,391
20	2,064
25	1,520
30	1,027
35	633
40	304
45	83
50	36
55	25
60	11
65	5
70	3
75	2
80	1
85	0
90	0

Polar Candela Distribution



Illuminance at a Distance



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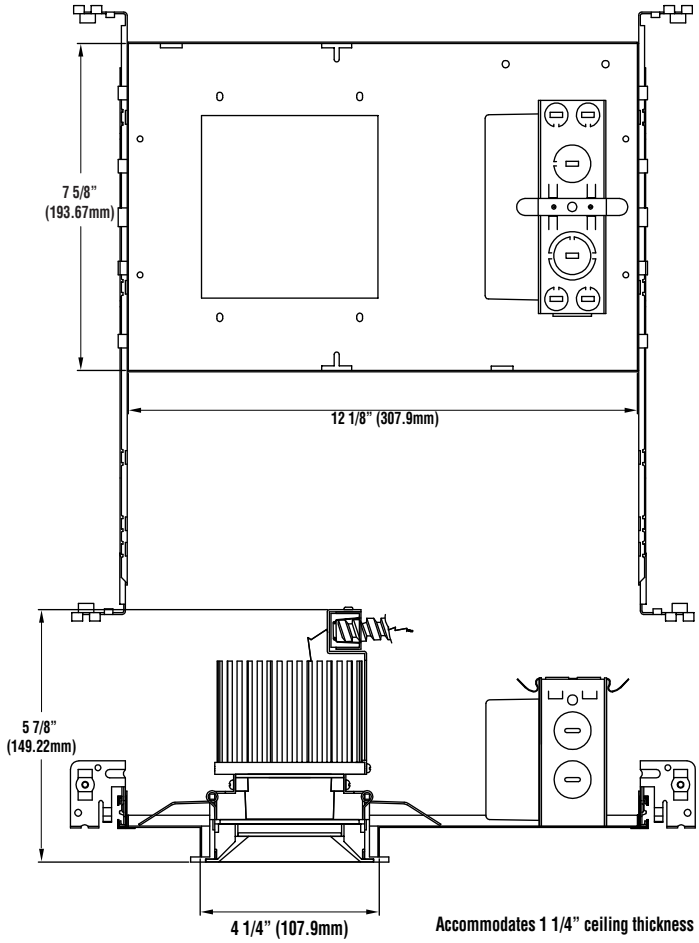
4" LED Architectural Square Downlight (LAD4SQ)

Type : _____

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PRODUCT DIMENSIONS

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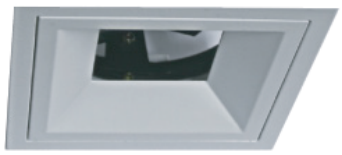


4" RECESSED DOWNLIGHT REFLECTORS

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TSQFX - White Open Reflector with White Trim Ring



TSQ4AJ - Adjustable 0-30° tilt



TSQ4WW - Wall Wash

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