Catalog # : _____ Project : _____ Type : _____

Prepared By : _____ Date : _____

8” Architectural Downlight (LAD8)

New Construction



OVERVIEW	
Lumen Package (lm)	1,150 - 4,250
Wattage Range (W)	14 - 42
Efficacy Range (LPW)	95 - 115
Weight lbs (kg)	9.25 (4.2)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Optical System

- LED source provides superior lumen output with maximum visual comfort.
- Tailored spot, narrow flood, flood and wide flood beam optics designed for glare free illumination.
- Choice of flanged or flangeless spun reflector utilizing heavy gauge highly reflective diffuse anodized aluminum to deliver low glare, even illumination of the space.
- Reflectors are retained with three retention clips holding the flange tight to the finished ceiling surface.
- Minimum CRI of 80.

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0 - 10V 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.
- 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) is available to meet critical life safety lighting requirements. The 90-minute battery provides 7.8watts 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 can be located on the website.

Controls

- 0 - 10V dimming standard.
- Compatible with most 0-10V dimmers
- Compatible with LSI AirLink® Blue for networked controls
- See controls table for more information

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.
- Accommodates ceiling thickness up to 1.5”.
- Plaster frame with collar is designed with 20-gauge colled rolled steel, black-painted
- Universal mounting brackets provide up to 5” vertical adjustment and accepts 1/2” EMT conduit.
- Additional channel bar, nailer bar and suspended ceiling accessories available. See accessories.
- Rough-in kit can be ordered separately for new construction build.

Installation

- Additional channel bar, nailer bar and suspended ceiling accessories available to accommodate a variety of ceiling types.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/terms-conditions-warranty/ for more information.

Listings

- CSA 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 & Industrial.
- Damp location rated.
- Wet location rated with regressed lens.
- Title 24 Compliant.

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8” Architectural Downlight (LAD8) New Construction

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ORDERING GUIDE

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TYPICAL ORDER EXAMPLE: LAD8 LED 25L UNV DIM1 35 NF TR6R HAZ

Prefix	Light Source	Lumen Package	Voltage	Driver	Color Temperature	CRI[2]	Beam Optics[3]
LAD8 - 8” New Construction[1]	**LED**	**14L** - 1,400 Lumens **25L** - 2,500 Lumens **32L** - 3200 Lumens **42L** - 4200 Lumens	**UNV** - 120 - 277V	**DIM1** - Dims to 1% (0-10V dimming)	**35** - 3500K **40** - 4000K	**Blank** - 80 min.	**SP** - Spot **NF** - Narrow Flood **FL** - Flood **WF** - Wide Flood

	Reflector	Finish
Self-flanged	**TR8R** - Open Reflector	**SF HAZ** - Haze semi- diffused
		SF SPC - Specular clear
	TR8RWW - Wall Wash[4]	**SF HAZ** - Haze semi- diffused
Flangeless (Ships standard w/ white plastic trim ring)	**TR8R** - Open Reflector	**HAZ** - Haze semi-diffused, white trim ring
		SPC - Specular clear, white trim ring
	TR8RWW - Wall Wash[4]	**HAZ** - Haze semi-diffused, white trim ring
	R8RL - Regressed Lens[6]	**HAZ** - Haze semi-diffused reflector w/ specular clear regressed lens and white trim ring
		SPC - Specular clear refector w/ specular clear regressed lens and white trim ring

Need more information?
Click here for our glossary

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ACCESSORY ORDERING INFORMATION

Part Number	Description
616107	WH - White metal trim ring (only compatible w/ flangeless trims)
205599	C27 - 27” channel bars (pair)
287522	C52 - 52” channel bars (pair)
345989	NB - Nailer bar kt (set of 4)
234808	SCIK - Suspended ceiling installation kit (set of 4 channel bars & 4 T-grid clips)
647671	BL1 - Black metal trim ring
778196	Remote Mount Battery
786277	Remote Battery with Grid Mount Kit[7]
640194	New Construction Rough-in Kit-1 pack
640197	New Construction Rough-in Kit-2 pack
791425	New Construction Rough-in Kit-1 pack with Self-Diagnostic Emergency Battery (field installed)
791426	New Construction Rough-in Kit-2 pack with Self-Diagnostic Emergency Battery (field installed)
791431	T-Grid Bracket for EM[8]

CONTROLS INFORMATION

Click here to learn more details about AirLink Blue

1 Housing can ship ahead of the light engine and reflector.
2 90 CRI requires 55 day leadtime & 100 MOQ; Consult Factory.
3 Refer to IES Files for Beam Spread.
4 Self-flanged TR6RWW wall wash reflector comes with 40º integrated optic; additional beam optics not compatible.
5 Flangeless TR6RFL frosted floating lens comes with integrated white metal trim; accessory white metal trim ring not required.
6 Regressed lens trims are wet location listed. All other trims are rated for damp location.
7 For complete fixture with remote mount EM for T-Grid install, order remote battery with grid mount kit.
8 For new construction frame kit with EM for T-Grid install, order T-Grid bracket separately.

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PERFORMANCE

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DELIVERED LUMENS*						
Lumen Package	Distribution	3500K CCT		4000K CCT		Wattage
		Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
14L	SP	1489	106.4	1489	106.4	14
	NF	1463	104.5	1463	104.5	
	FL	1450	103.6	1450	103.6	
	WF	1376	98.3	1376	98.3	
25L	SP	2576	117.1	2576	117.1	22
	NF	2531	115.0	2531	115.0	
	FL	2508	114.0	2508	114.0	
	WF	2380	108.2	2380	108.2	
32L	SP	3375	105.5	3375	105.5	32
	NF	3316	103.6	3316	103.6	
	FL	3285	102.7	3285	102.7	
	WF	3118	97.4	3118	97.4	
42L	SP	4328	103.0	4328	103.0	42
	NF	4252	101.2	4252	101.2	
	FL	4213	100.3	4213	100.3	
	WF	3998	95.2	3998	95.2	

*Electrical Data at 25C (77F)/ Actual Wattage may differ +/-10%

ELECTRICAL DATA (AMPS)*				
Lumen Package	120V	208V	240V	277V
14L	0.12	0.07	0.06	0.05
25L	0.18	0.11	0.09	0.08
32L	0.27	0.15	0.13	0.12
42L	0.35	0.20	0.18	0.15

*LED Chips are frequently updated therefore values may change.
Data is based on Haze Reflector.

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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.

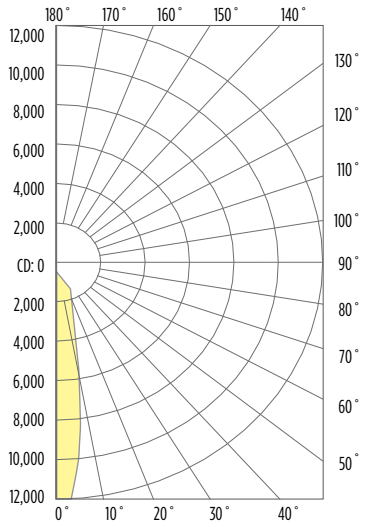
LAD8-LED-25L-35-SP-TR8R-SF-HAZ

Lumens: 2,576
Watts: 22.4
Efficacy: 115

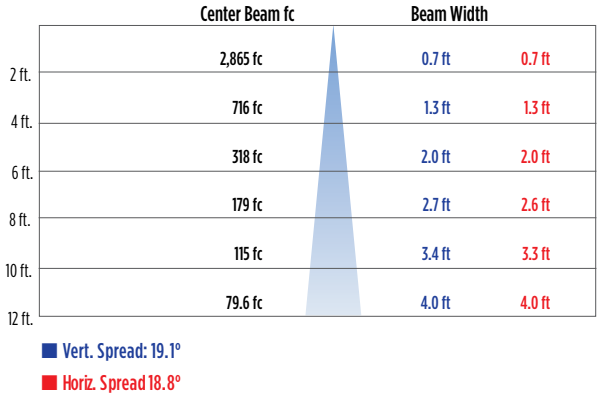
ZONAL LUMEN SUMMARY		
Zone	**Lumens**	**%Fixture**
0-10	781	30.3%
10-20	772	30.0%
20-30	588	22.8%
30-40	388	15.1%
40-50	40	1.5%
50-60	6	0.2%
60-70	1	0.0%
70-80	1	0.0%
80-90	0	0.0%
90-100	0	0.0%
0-180	2,576	100.0%

CANDELA TABLE	
Degree Vertical	**Candela**
0	11,459
5	9,884
10	5,312
15	2,573
20	1,647
25	1,272
30	1,023
35	700
40	146
45	37
50	15
55	5
60	2
65	1
70	1
75	1
80	0
85	0
90	0

Polar Candela Distribution



Illuminance at a Distance



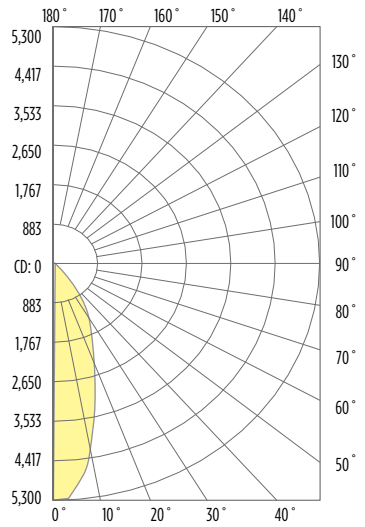
LAD8-LED-25L-35-NF-TR8R-SF-HAZ

Lumens: 2,531
Watts: 22.4
Efficacy: 113

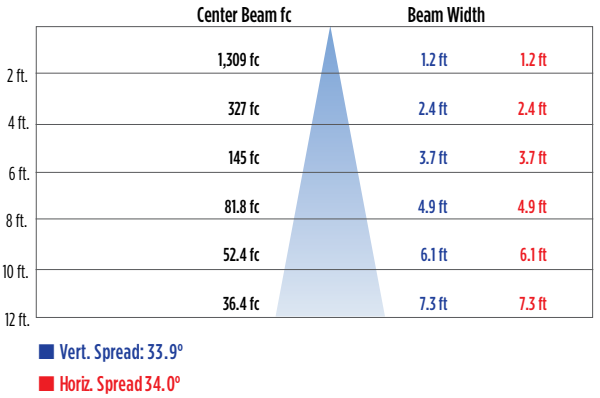
ZONAL LUMEN SUMMARY		
Zone	**Lumens**	**%Fixture**
0-10	445	17.6%
10-20	830	32.8%
20-30	733	29.0%
30-40	454	17.9%
40-50	60	2.4%
50-60	7	0.3%
60-70	1	0.0%
70-80	1	0.0%
80-90	0	0.0%
90-100	0	0.0%
0-180	2,531	100.0%

CANDELA TABLE	
Degree Vertical	**Candela**
0	5,235
5	5,002
10	4,057
15	2,968
20	2,127
25	1,565
30	1,189
35	821
40	203
45	63
50	23
55	5
60	1
65	1
70	1
75	0
80	0
85	0
90	0

Polar Candela Distribution



Illuminance at a Distance



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PHOTOMETRICS

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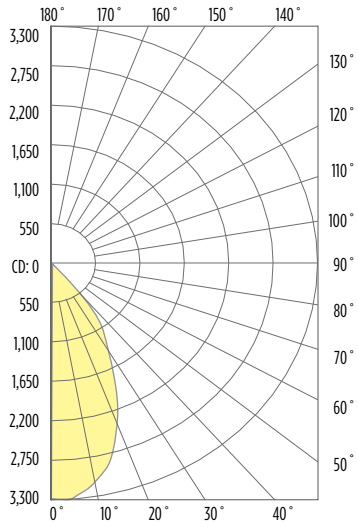
LAD8-LED-25L-35-FL-TR8R-SF-HAZ

Lumens: 2,509
Watts: 22.4
Efficacy: 112

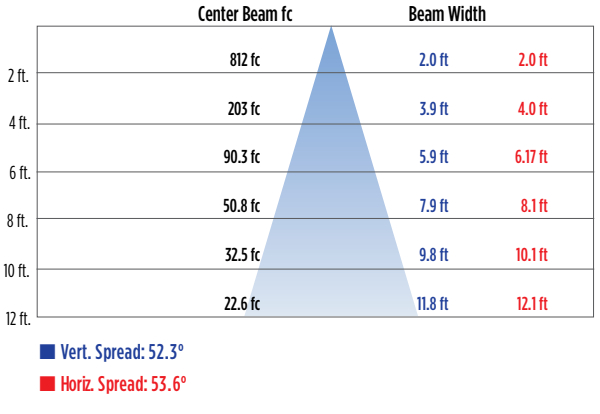
ZONAL LUMEN SUMMARY		
Zone	**Lumens**	**%Fixture**
0-10	302	12.60%
10-20	764	30.5%
20-30	820	32.7%
30-40	520	20.7%
40-50	90	3.6%
50-60	10	0.4%
60-70	1	0.1%
70-80	1	0.0%
80-90	0	0.0%
90-100	0	0.0%
0-180	2,509	100.0%

CANDELA TABLE	
Degree Vertical	**Candela**
0	3,249
5	3,216
10	3,034
15	2,713
20	2,249
25	1,729
30	1,319
35	920
40	271
45	104
50	38
55	7
60	2
65	1
70	1
75	1
80	0
85	0
90	0

Polar Candela Distribution



Illuminance at a Distance



Vert. Spread: 52.3°
Horiz. Spread: 53.6°

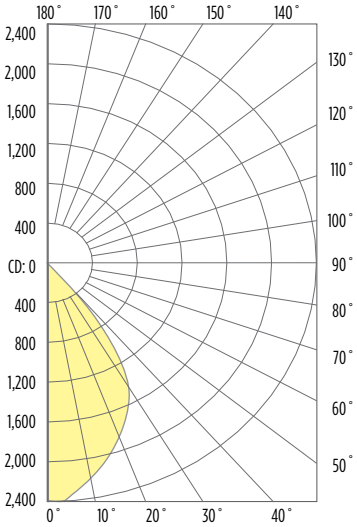
LAD8-LED-25L-35-WF-TR8R-SF-HAZ

Lumens: 2,380
Watts: 22.4
Efficacy: 106

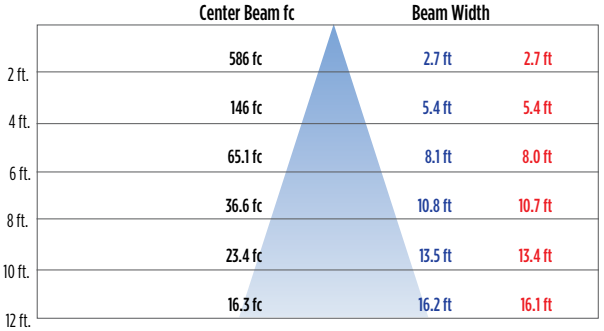
ZONAL LUMEN SUMMARY		
Zone	**Lumens**	**%Fixture**
0-10	216	9.05%
10-20	557	23.38%
20-30	746	31.33%
30-40	629	26.42%
40-50	199	8.34%
50-60	29	1.23%
60-70	4	0.15%
70-80	2	0.07%
80-90	0	0.02%
90-100	0	0.0%
0-180	2,380	100.0%

CANDELA TABLE	
Degree Vertical	**Candela**
0	3,826
5	3,844
10	3,654
15	3,182
20	2,513
25	1,770
30	852
35	391
40	206
45	104
50	45
55	17
60	6
65	3
70	2
75	1
80	1
85	0
90	0

Polar Candela Distribution



Illuminance at a Distance



Vert. Spread: 68.0°
Horiz. Spread: 67.7°

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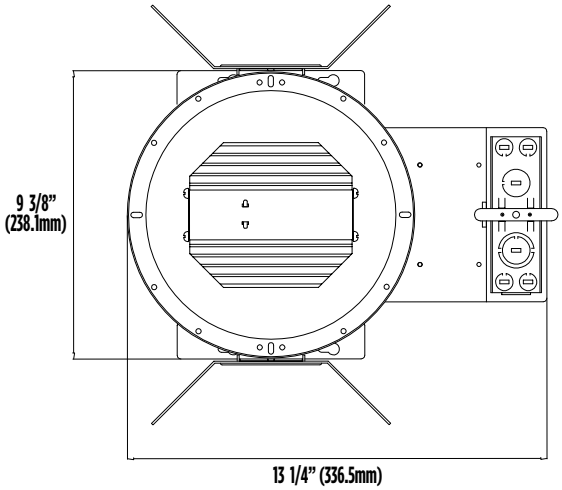
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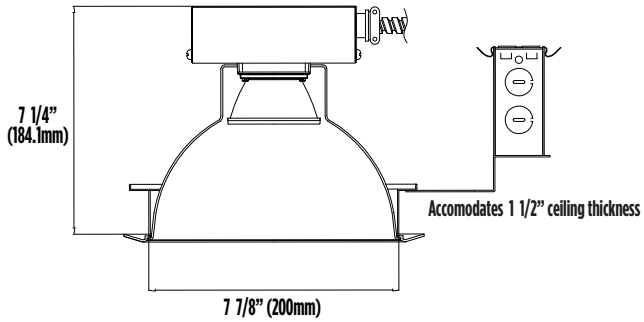
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8” RECESSED DOWNLIGHT REFLECTORS

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TR8R - Open Reflector
Self-Flange or Flangeless
HAZ - Haze semi-diffused
SPC - Specular clear



TR8RWW - Wall Wash w/ Kick Reflector
Self-Flange or Flangeless
HAZ - Haze semi-diffused



TR8RL - Regressed Lens w/ Specular Clear Reflector
Flangeless
HAZ - Haze semi-diffused
SPC - Specular clear
Wet Location Listed

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