



6" Architectural Downlight (LAD6)

New Construction



OVERVIEW

Lumen Package (lm)	1,100 - 4,200
Wattage Range (W)	14 - 42
Efficacy Range (LPW)	92 - 116
Weight lbs (kg)	9 (4.1)

QUICK LINKS

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 cold 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.
- Frame 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

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



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

ORDERING GUIDE

TYPICAL ORDER EXAMPLE: LAD6 LED 25L UNV DIM1 35 NF TR6R HAZ							
Prefix	Light Source	Lumen Package	Voltage	Driver	Color Temperature	CRI ²	Beam Optics ³
LAD6 - 6" New Construction ¹	LED	14L - 1,400 Lumens 25L - 2,500 Lumens 32L - 3200 Lumens 41L - 4100 Lumens	UNV - 120 - 277V	DIM1 - Dims to 1% (0-10V dimming)	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	Blank - 80 min.	SP - Spot NF - Narrow Flood FL - Flood WF - Wide Flood
Reflector				Finish			
Self-flanged	TR6R - Open Reflector		SF HAZ - Haze semi- diffused				
			SF SPC - Specular clear				
	TR6RWW - Wall Wash ⁴		SF HAZ - Haze semi-diffused				
Flangeless (Ships standard w/ white plastic trim ring)	TR6R - Open Reflector		HAZ - Haze semi-diffused, white trim ring				
			SPC - Specular clear, white trim ring				
	TR6RWW - Wall Wash ⁴		HAZ - Haze semi-diffused wall wash reflector, white trim ring				
	TR6B - Baffle		HAZ - Haze semi-diffused Reflector			WH - White baffle and white trim ring	
						BLK - Black Baffle and white trim ring	
	TR6BL - Baffle w/ Regressed Lens ⁶		HAZ - Haze semi-diffused reflector			WH - White baffle and white trim ring	
						BLK - Black Baffle and white trim ring	
	TR6RL - 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
616106	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
687986	New Construction Frame Kit-1 pack
791427	New Construction Frame Kit-2 pack
791429	New Construction Frame Kit-1 pack with Self-Diagnostic EM
791430	New Construction Frame Kit-2 pack with Self-Diagnostic EM
791431	T-Grid Bracket for EM ⁸

CONTROLS ORDERING INFORMATION

Part Number	Order Number	Description
755249	ALBC 5A	5A Circuit controller
755248	ALBC 5A OS1	5A Circuit controller w/ ceiling motion & daylight 9ft mt ht
755245	ALBC 5A OS2	5A Circuit controller w/ ceiling motion & daylight 40ft mt ht
760580	ALBCM DHS	AirLink Blue Daylight Harvesting Sensor
760380	ALBCM	AirLink Blue Ceiling Mount Motion Sensor
754823	ALBWS E02B WH	AirLink Blue Two Button Switch
754824	ALBWS E04B WH	AirLink Blue Four Button Switch
741967	ALBTK	AirLink Blue Time Keeper
760921	ALBWS MW4B	AirLink Blue Wall Dimmer Four Button Switch
754821	ALBWS MW1B	AirLink Blue Wall Dimmer Switch

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 40° 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

DELIVERED LUMENS*										
Lumen Package	Distribution	2700K CCT		3000K CCT		3500K CCT		4000K CCT		Wattage
		Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
14L	SP	1184	84.6	1184	84.6	1467	104.8	1467	104.8	14
	NF	1156	82.6	1156	82.6	1432	102.3	1432	102.3	
	FL	1152	82.3	1152	82.3	1428	102.0	1428	102.0	
	WF	1079	77.1	1079	77.1	1337	95.5	1337	95.5	
25L	SP	2066	93.9	2066	93.9	2560	116.4	2560	116.4	22
	NF	2017	91.7	2017	91.7	2499	113.6	2499	113.6	
	FL	2011	91.4	2011	91.4	2492	113.3	2492	113.3	
	WF	1883	85.6	1883	85.6	2333	106.0	2333	106.0	
32L	SP	2665	83.3	2665	83.3	3302	103.2	3302	103.2	32
	NF	2602	81.3	2602	81.3	3224	100.8	3224	100.8	
	FL	2594	81.1	2594	81.1	3215	100.5	3215	100.5	
	WF	2429	75.9	2429	75.9	3010	94.1	3010	94.1	
41L	SP	3409	81.2	3409	81.2	4224	100.6	4224	100.6	42
	NF	3328	79.2	3328	79.2	4123	98.2	4123	98.2	
	FL	3318	79.0	3318	79.0	4112	97.9	4112	97.9	
	WF	3107	74.0	3107	74.0	3849	91.6	3849	91.6	

*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
41L	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

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.

LAD6-LED-25L-35-SP-TR6R-SF-HAZ

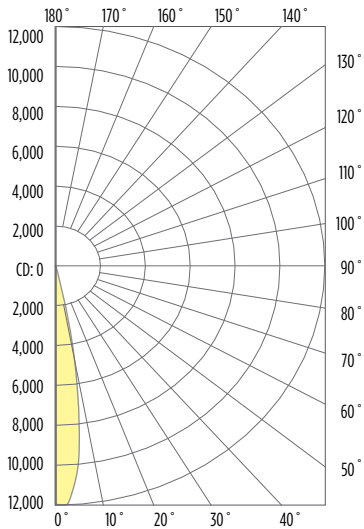
Lumens: 2,560

Watts: 22.2

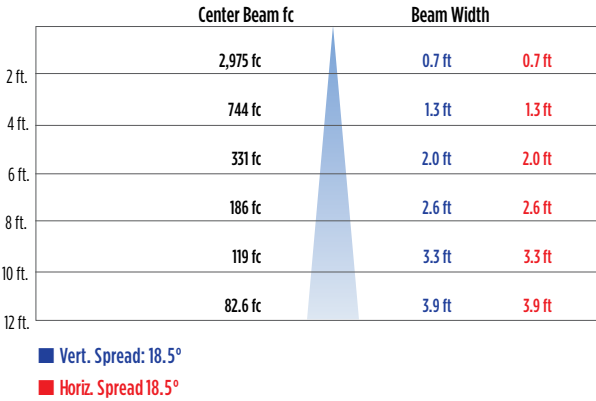
Efficacy: 115

ZONAL LUMEN SUMMARY			CANDELA TABLE	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	797	31.2%	0	11,901
10-20	766	29.9%	5	10,123
20-30	611	23.9%	10	5,266
30-40	315	12.3%	15	2,578
40-50	51	2.0%	20	1,645
50-60	14	0.5%	25	1,309
60-70	3	0.1%	30	1,091
70-80	1	0.0%	35	426
80-90	1	0.0%	40	128
90-100	0	0.0%	45	60
0-180	2,560	100.0%	50	32
			55	14
			60	6
			65	3
			70	1
			75	1
			80	0
			85	1
			90	0

Polar Candela Distribution



Illuminance at a Distance



LAD6-LED-25L-35-NF-TR6R-SF-HAZ

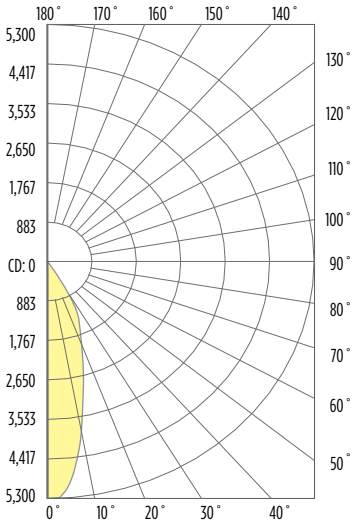
Lumens: 2,499

Watts: 22.2

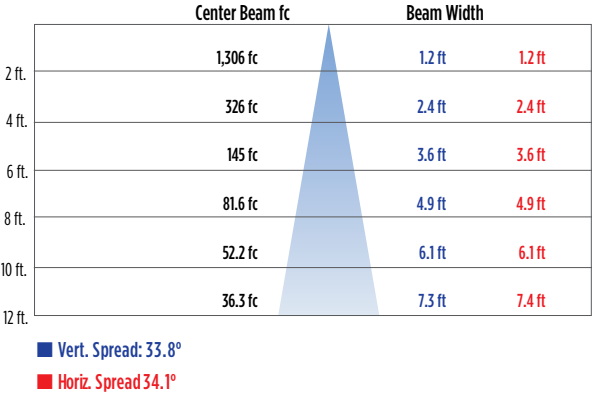
Efficacy: 113

ZONAL LUMEN SUMMARY			CANDELA TABLE	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	445	17.8%	0	5,233
10-20	831	33.2%	5	4,982
20-30	755	30.2%	10	4,023
30-40	375	15.0%	15	2,984
40-50	71	2.9%	20	2,165
50-60	17	0.7%	25	1,607
60-70	4	0.1%	30	1,246
70-80	1	0.1%	35	493
80-90	1	0.0%	40	180
90-100	0	0.0%	45	82
0-180	2,499	100.0%	50	40
			55	16
			60	7
			65	3
			70	2
			75	1
			80	1
			85	0
			90	0

Polar Candela Distribution



Illuminance at a Distance



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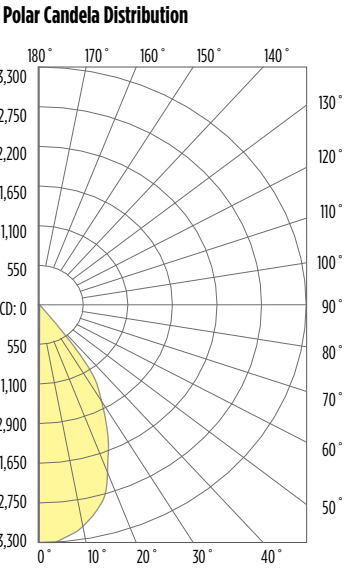
 Have questions? Call us at (800) 436-7800

PHOTOMETRICS

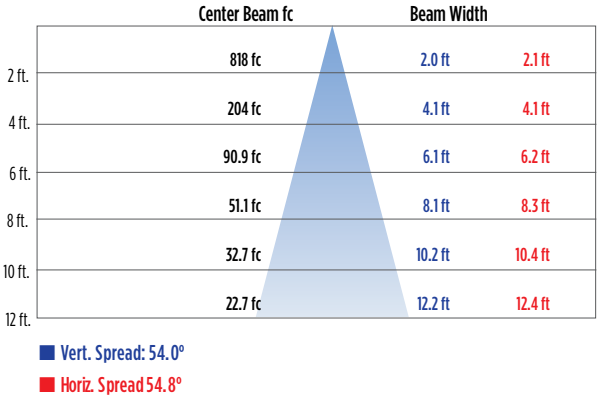
LAD6-LED-25L-35-FL-TR6R-SF-HAZ

Lumens: 2,492
Watts: 22.2
Efficacy: 112

ZONAL LUMEN SUMMARY			CANDELA TABLE	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	304	12.2%	0	3,271
10-20	773	31.0%	5	3,236
20-30	8475	34.0%	10	3,071
30-40	443	17.8%	15	2,780
40-50	99	4.0%	20	2,315
50-60	19	0.8%	25	1,812
60-70	4	0.2%	30	1,415
70-80	2	0.1%	35	624
80-90	1	0.0%	40	257
90-100	0	0.0%	45	120
0-180	2,492	100.0%	50	52
			55	18
			60	7
			65	4
			70	2
			75	1
			80	1
			85	0
			90	0



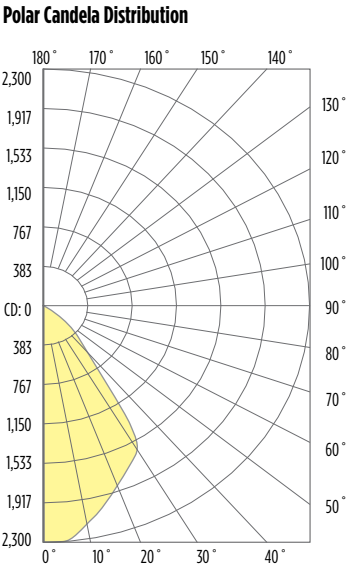
Illuminance at a Distance



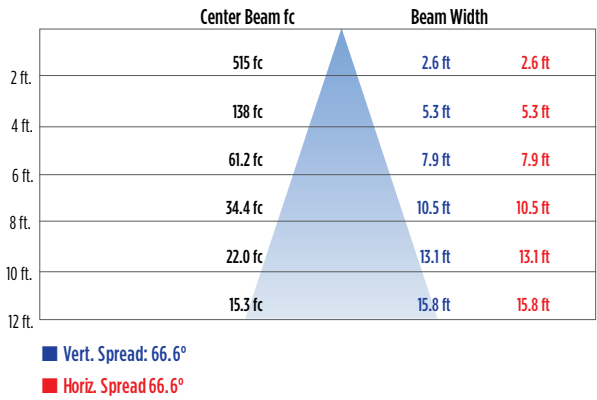
LAD6-LED-25L-35-WF-TR6R-SF-HAZ

Lumens: 2,333
Watts: 22.2
Efficacy: 105

ZONAL LUMEN SUMMARY			CANDELA TABLE	
Zone	Lumens	%Fixture	Degree Vertical	Candela
0-10	237	10.5%	0	3,826
10-20	617	27.2%	5	3,844
20-30	722	31.9%	10	3,654
30-40	405	17.9%	15	3,182
40-50	219	9.7%	20	2,513
50-60	53	2.3%	25	1,770
60-70	9	0.4%	30	852
70-80	2	0.1%	35	391
80-90	0	0.0%	40	206
90-100	0	0.0%	45	104
0-180	2,264	100.0%	50	45
			55	17
			60	6
			65	3
			70	2
			75	1
			80	1
			85	0
			90	0



Illuminance at a Distance

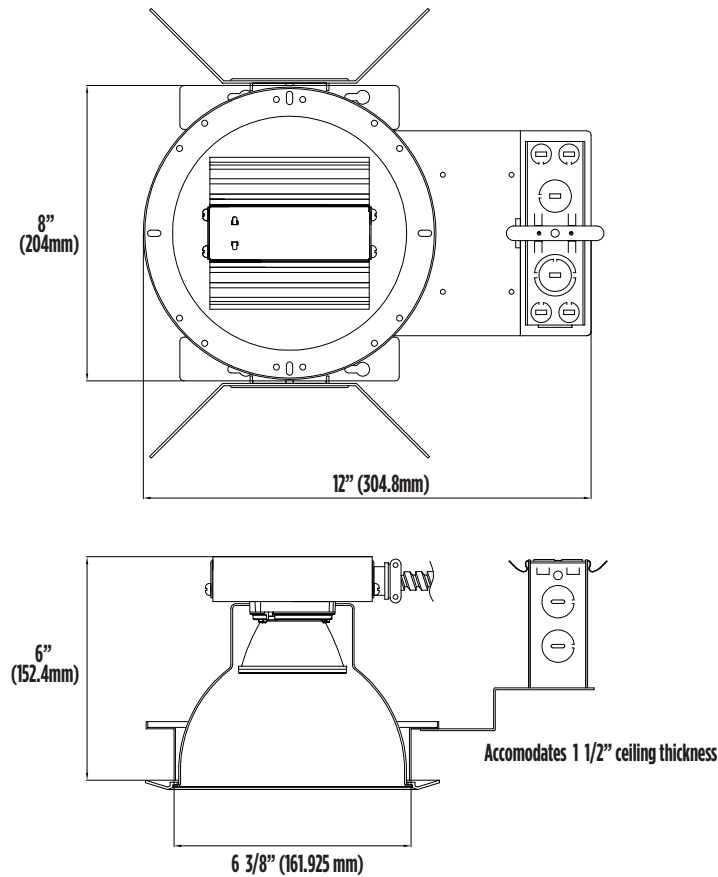


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PRODUCT DIMENSIONS



6" RECESSED DOWNLIGHT REFLECTORS



TR6R - Open Reflector

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



TR6B - Baffle

Flangeless
HAZ - Haze semi-diffused reflector
Choice of white or black baffle



TR6RL - Regressed Lens w/ Specular Clear Reflector

Flangeless
HAZ - Haze semi-diffused
SPC - Specular clear
Wet Location Listed



TR6BL - Baffle w/ Regressed Lens

Flangeless
HAZ - Haze semi-diffused
SPC - Specular clear
Choice of white or black baffle
Wet Location listed

