ORIGIN™ | Downlights

2017 First Edition

For New Construction & Remodeling

Commercial & Residential

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Because Experience Makes the Difference

For the past 40 years, LSI Industries has distinguished itself as a provider of IMAGE-enhancing interior & exterior lighting fixtures, lighting controls and graphic solutions that leverage its advanced technology, design and manufacturing capabilities. LSI is truly a leading company that has demonstrated its dedication to quality, commitment to service excellence, product ingenuity, and overall strength - time and again, every step of the way.

For approximately 15 years, LSI Industries has offered downlight programs in traditional lighting technology options, however, the contents of this brochure represent an exciting new chapter for LSI as we proudly introduce our new LSI Origin™ brand LED Downlights & Track Lights.

LSI Corporate Headquarters in Blue Ash, OH and Assembly Facility in Los Angeles, CA

12,000 sq ft

Retrofits & Residential

LSI's Origin™ brand Downlights are the perfect choice for upgrading existing incandescent, fluorescent, or metal halide recessed fixtures to energy-saving, modern and attractive LED technology. Glass pendants are available to match any décor.

RETROFIT KITS

White Baffle **(WB)**

PDL6K DESCRIPTION

A 6" Retrofit LED module & trim kit with E26 medium screw base for 6" IC/Airtight and Non-IC incandescent recessed downlights. Optional GU24 adapter for CFL housing. Designed for remodeling compatible 6" housings classified by ETL. High efficacy 120V DOB (Driver On Board) Module. Suitable for wet locations.

LED Quantity	1EA(DOB)
Input Voltage	120V, 220V-230V AC
Wattage	13.8W
Lumen	830
Efficacy LPW	60
Beam Angle°	100°
Color	2700K, 3000K, 4000K
CRI	80
Dimming	Triac
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

**7-1/2"
(190mm)**

**2-1/2"
(63.7mm)**

**7-1/2"
(190mm)**

Optical Unit

**7-1/2"
(191mm)**

**6-5/16"
(160mm)**
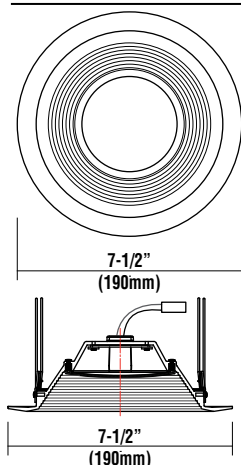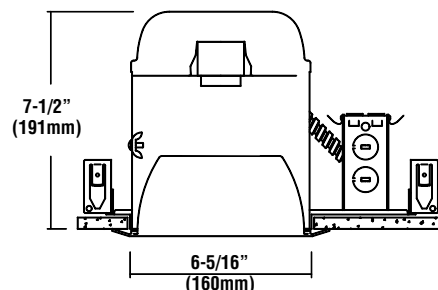
Housing (order separately)

Ordering Information

Luminaire Prefix	Source	Lumens	Color Temp.	Voltage	Reflector Finish	Options	Accessories
PDL6K - 6" Downlight	LED	08 - 830	27 - 2700K 30 - 3000K 40 - 4000K	120 - 120 volt	WH - White Painted BB - Black Baffle WB - White Baffle (White Trim Ring Standard)	GU24 – GU24 base adaptor.	PDL6K HSG NC - 6" New Construction Housing PDL6K HSG RM 6" Remodel Housing

SELECTION:

PDL6K	LED	08		120		

Example: PDL6K- LED - 08 - 27 - 120 - WH

Project Name _____ Fixture Type _____ Cat# _____

TITLE 24 COMPLIANT · **ENERGY STAR** · **ETL LISTED Intertek** · **Dimmable**

RETROFIT KITS

PDL6K Features & Benefits

LED Module
- Durable die-cast aluminum extrusion heat sink integrated with DOB LED module.
- Inner reflector provides more light and beam distribution.

Lens
- Impact-resistant plastic.
- High lumen transmission and diffusing for even illumination.

Mounting
- Precise formed steel torsion spring bracket adjustable for position to fit 6" housings.
- Torsion spring fit compatible housing with torsion spring mounting tabs.
- Easier trim installation by snap-on fit clip.

Housing Compatibility
- All 6" aperture housings from Halo, Juno, Capril, Lithonia, Thomas, Prescolite.

(brand names are trademarks of respective companies).

Electrical Connection
- E26 medium screw-base Edison connector provides easy retrofit of incandescent housing.
- Also available: GU24 base twist-lock adaptor for compact fluorescent housing. (Optional)
- 120V LED Power Supply on-bed with customized IC chip.
- 10-100% Triac dimmable for most leading and trailing edge incandescent and low voltage dimmer switches.
- Driving circuit to prevent inrush current.
- Recommended for use max. 45 fixtures per run of a dimmer switch 600W loaded and max. 23 fixtures per a dimmer switch 300W loaded.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed
- State of California Title 24
- ENERGY STAR® Certified

Approved Dimmers

- Lutron: Skylark S-600
  - : MRF2-6DN-120
  - : MACL-153M
  - : DVLV-600P
  - : SELV-300P
  - : CTCL-153P
  - : DVELV-303P
  - : DVCL-153P
- Leviton: D600R, Acenti: Ate06, Trimatron #705W
- Cooper Devine incandescent dimmer 600W
- Pass & Seymour Harmony incandescent 600W

Consult factory for additional dimmers

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RETROFIT KITS

TITLE 24 COMPLIANT

ETL Intertek

Dimmable

PDL6KADJ DESCRIPTION

6" eyeball Retrofit LED module & trim kit with E26 medium screw base for 6" IC/Airtight and Non-IC incandescent recessed downlights. High efficacy 120V DOB (Driver On Board) Module LED with integral dimmer. The optical diffuser produces high lumen transmission and even illumination. Suitable for damp locations.

LED Quantity	1EA(COB)
Input Voltage	120V-277V AC
Wattage	14W
Lumen	772
Efficacy LPW	57
Beam Angle°	79°
Color	2700K, 3000K, 3500K, 4000K
CRI	80 (standard), 90 (optiplanl)
Dimming	Triac
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

4-1/2" (114.1mm)

7-3/4" (196.5mm)
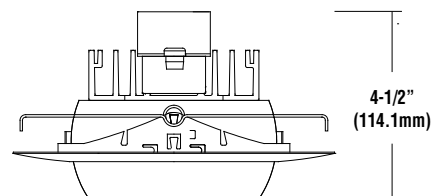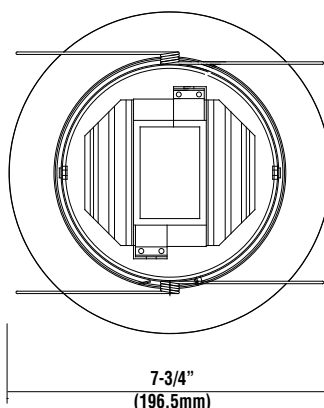
Ordering Information

Luminaire Prefix	Source	Lumens	Color Temp.	Voltage	Options	Accessories
PDL6KADJ - 6" Adjustable Eyeball Downlight (Module & Housing)	LED	07 - 750	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120 volt	90 - 90 CRI GU24 – GU24 base adaptor	PDL6KADJ HSG NC - 6" New Construction Housing PDL6KADJ HSG RM 6" Remodel Housing

SELECTION:

PDL6KADJ	LED	07		120	

Example: PDL6KADJ LED 07 07 120

TITLE 24 COMPLIANT · c ETL us LISTED Intertek · Dimmable

PDL6KADJ Features & Benefits

LED Module
- Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
- Adjustable lamp direction in 358˚ rotation and 0~30˚ tilt.

Lens
- Impact-resistant plastic.
- High lumen transmission and diffusing for even illumination.

Mounting
- Precise formed steel torsion spring bracket.
- Torsion spring fit compatible housing with torsion spring mounting tabs.

Electrical Connection
- E26 medium screw-base Edison connector provides easy retrofit of incandescent housing.
- Also available GU24 base twist-lock adaptor for compact fluorescent housing. (Optional)

LED Power Supply Driver
- 10-100% dimmable for 120V electronic low voltage dimmer switches.
- Power factor >.90, THD <20% and has integral thermal protection.
- Driver mounts externally to the module, allowing future replacement, if needed.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed
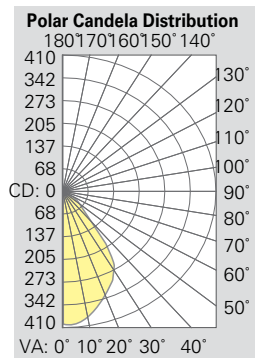- State of California Title 24

Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W

Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

Polar Candela Distribution

Illuminance at a Distance		
	Center Beam FC	Beam Width
2.0ft	118.4 fc	3.3 ft
4.0ft	29.6 fc	6.6 ft
6.0ft	13.2 fc	9.9 ft
8.0ft	7.4 fc	13.2 ft
10.0ft	4.7 fc	16.5 ft
12.0ft	3.3 fc	19.8 ft
Beam Spread: 78.9˚		

PDL6KADJ-LED

Housing Compatibility

Halo	H7ICAT,H7RICAT, H7ICT, H7RICT, H7ICATNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UICT, H7UICAT, H27ICAT, H27RICAT, H27ICT, H27RICT, H27T, H27RT	**Capril**	CR1, PR1, QL1, R9ASIC
		Lithonia	L7X, L7XP
All-Pro	EI700AT, EI700RAT, E700ATNB, EI700, EI700R, EI700ATNB, EI700NB, ET700, ET700R, EI700U, EI700UAT, E2700AT, EI2700, EI2700R, ET2700, ET2700R	**Thomas**	PS1, R9ASIC/PS9RM
		Prescolite	IBXS
Juno	C22, IC22R, IC22W, IC22S, IC23, IC23W, IC21, IC21R, TC2, TC2R, IC20, IC20R, TC20, TC20R		

ROUND

NEW CONSTRUCTION

Clear Reflector **(RT4R-HZ)**
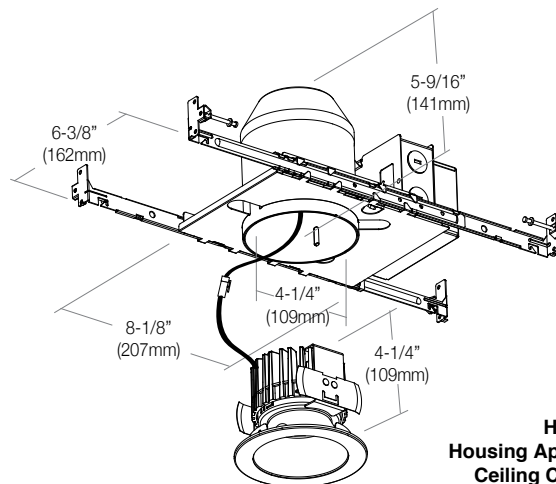
Painted Reflector **(RT4R-WH)**

Baffle **(RT4B)**

LRD4 DESCRIPTION

Housing is designed for use with a separate LED engine kit that is intergraled with heat sink and trims and compatible 4" LED trims. This fixture offers easy and fast installation using a disconnect device and held securely in the housing with two friction blade brackets.

LED Quantity	1EA(COB)
Input Voltage	120-277V AC
Wattage	10W
Lumen	460
Efficacy LPW	46
Beam Angle°	63°
Color	2700K, 3000K, 4000K
CRI	80
Dimming	Triac
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

5-9/16" (141mm)
6-3/8" (162mm)
8-1/8" (207mm)
4-1/4" (109mm)
4-1/4" (109mm)

Height : 5-9/16"
Housing Aperture : 4-1/4"
Ceiling Cut-out : 4-3/8"

Ordering Information

Luminaire Prefix	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	
LRD4 - 4" Residential Downlight	04 - 460	LED	27 - 2700K 30 - 3000K 40 - 4000K	120 - 120 volt 277 - 277 volt	RT4R RT4B	WH - White HAZ - Semi-diffused/Satin CH - Champagne PW - Pewter	BB - Black Baffle WB - White Baffle	WH - White BK - Black SN - Satin Nickel AN - Antique Nickel AC - Antique Copper	MO - Mocha CA - Cappuccino CR - Chrome NS - Natural Steel PB - Polished Brass

SELECTION:

LRD4	04	LED								

Example: LRD4 - 04 - LED - 27 - 120 - Rt4R - HAZ - BL - WH - EM

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LRD4 Features & Benefits

Housing
- Galvanized steel housing, painted black.
- Housing can be adjusted for ceiling thickness up to 1-1/4".

Junction Box
- Listed for through-branch circuit wiring. (Max.8) No 12 AWG 90˚C branch-circuit conductors.
- (5)1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.
- Provided listed quick connectors for easy snap-on wires. (Optional)

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist span.
- Score lines allow shortening for 12" joists without tools.

Trims
- Available with baffle trims in white or black painted and haze clear reflectors.
- Available in the (2) different upper reflectors for each be MED (Medium spot beam): 30˚, WFL(Wide flood spot beam): 45˚.

Optics
- Glass Lens: Textured fine surface of tempered glass providing high lumen transmission and diffuser for even illumination.

LED Engine
- Heat sink and aluminum board for low heat operation.
- Uniform color temperature within 3 SDCM.

LED Power Supply Driver
- 120-277V input high efficacy drivers with dimming by 0-10V dimmer switches.
- Power factor >.90, THD <20% with integral thermal protection.
- Emergency battery back-up: In-mounted to fixture or remote options availalbe (consult factory).
- Driver mounts external to the module, allowing future replacement, if needed.
- Consult factory for optional Triac dimmable driver.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed   • State of California Title 24   • ENERGY STAR® Certified

Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)
- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W

Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

Polar Candela Distribution

LRD4 - 10 - LED

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	113.3 fc	2.5 ft
4.0ft	28.3 fc	5.1 ft
6.0ft	12.6 fc	7.6 ft
8.0ft	7.1 fc	10.1 ft
10.0ft	4.5 fc	12.7 ft
12.0ft	3.1 fc	15.2 ft

Beam Spread: 64.7˚

Painted Reflector
(RT6R-WH)

Baffle
(RT6B)

Clear Reflector **(RT6R-HZ)**

NEW CONSTRUCTION

LRD6 DESCRIPTION

Housing designed for use with a separate LED engine kit that is integrated with heat sink. Compatible 6" LED trims. Fixture offers easy and fast installation using a disconnect device. Held securely in the housing with two pressure springs.

LED Quantity	1EA(COB)
Input Voltage	120V-277V AC
Wattage	14W
Lumen	734
Efficacy LPW	53
Beam Angle°	75°
Color	2700K, 3000K, 4000K
CRI	80
Dimming	Triac
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

7-1/2"
(190mm)

10-3/8"
(263.5mm)

6-1/8"
(157mm)

7-5/8"
(193.6mm)

7-9/16"
(192mm)
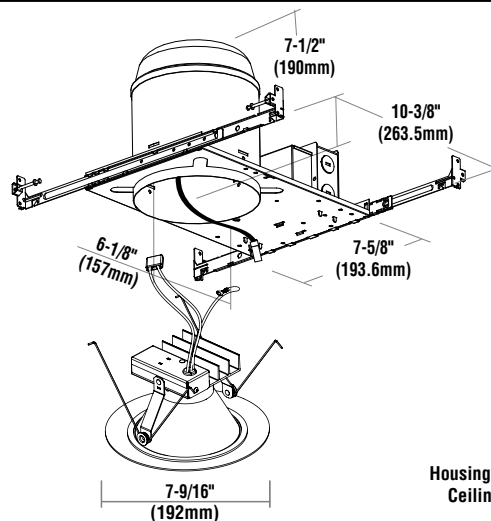
Height : 7-1/2"
Housing Aperture : 6-1/8"
Ceiling Cut-out : 6-1/2"

Ordering Information

Luminaire Prefix	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	
LRD6 - 6" Residential Downlight	07 - 700	LED	27 - 2700K 30 - 3000K 40 - 4000K	120 - 120 volt 277 - 277 volt	RT6R RT6B	WH - White HAZ - Semi-diffused/Satin CH - Champagne PW - Pewter	BB - Black Baffle WB - White Baffle	WH - White BK - Black SN - Satin Nickel AN - Antique Nickel AC - Antique Copper	MO - Mocha CA - Cappuccino CR - Chrome NS - Natural Steel PB - Polished Brass

SELECTION:

LRD6	07	LED						

Example: LRD6- 07 - LED - 27 - 120 - RT6R - HAZ - BL - WH

LRD6 Features & Benefits

Housing
- Single wall aluminum housing gasketed for IC/Air-Tight in insulated ceiling.
- Housing can be adjustable for ceiling thickness up to 1-1/4".

Junction Box
- Listed for through-branch circuit wiring.(Max. 8) No 12 AWG 90°C branch-circuit conductors.
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.
- Optional listed quick connectors.

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist span.
- Score lines allowshortening for 12" joists without tools.

Lens
- Impact-resistant plastic.
- High lumen transmission and diffusing for even illumination.

LED Module
- Durable aluminum extrusion heat sink integrated with COB(chip on board).
- Inner reflector provide more light and beam distribution.

LED power supply driver
- 120~277V input high efficacy driver with the capability to dim.
- Power factor >.90, THD <20% and has integral thermal protection.
- Driver installed on junction box door for easy access below ceiling.
- Consult factory for optional 0~10V analog dimmable driver.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed
- State of California Title 24
- ENERGY STAR® Certified

Approved Dimmers
- Lutron: NovaT(Ntelv300&600) Diva(Dvelv-300P&303P)
- Leviton: Acenti (Ate06-1Lw) Trimatron #705W

Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

Polar Candela Distribution

LRD6

Illuminance at a Distance		
	Center Beam FC	Beam Width
2.0ft	147.2 fc	3.1 ft
4.0ft	36.8 fc	6.1 ft
6.0ft	16.3 fc	9.2 ft
8.0ft	9.2 fc	12.3 ft
10.0ft	5.9 fc	15.3 ft
12.0ft	4.1 fc	18.4 ft
Beam Spread: 74.9°		

Polar Candela Distribution

LRD6

Illuminance at a Distance		
	Center Beam FC	Beam Width
2.0ft	118.4 fc	3.3 ft
4.0ft	29.6 fc	6.6 ft
6.0ft	13.2 fc	9.9 ft
8.0ft	7.4 fc	13.2 ft
10.0ft	4.7 fc	16.5 ft
12.0ft	3.3 fc	19.8 ft
Beam Spread: 78.9°		

Project Name _____ Fixture Type _____ Cat# _____

ROUND

REMODEL

Clear Reflector **(RT4R-HZ)**

Painted Reflector **(RT4R-WH)**

Baffle **(RT4B)**

LRD4R DESCRIPTION

Remodel housing is designed for use with a separate LED engine kit that is integrated with heat sink and compatible 4" LED trims. This fixture offers easy and fast installation using a disconnect device and held securely in the housing with two friction blade bracket.

LED Quantity	1EA(COB)
Input Voltage	120-277V AC
Wattage	10W
Lumen	460
Efficacy LPW	46
Beam Angle°	63°
Color	2700K - 4000K
CRI	80 (standard), 90 (optional)
Dimming	0-10V Standard, Triac Optional
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

12" (305mm)

5-5/8" (142.3mm)

4-1/8" (105mm)

4-1/8" (105mm)

Height : 5-9/16"
Ceiling Cut-out : 4-3/8"

Ordering Information

Luminaire Prefix	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector Finish	Baffle	Optional Metal Trim Ring Finish		Options
LRD4R - 4" Residential Downlight Remodel	04 - 460	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120 volt 277 - 277 volt	RT4R RT4B	WH - White HZ - Haze Clear CH - Champagne PW - Pewter	BL - Black WH - White	WH - White BK - Black SN - Satin Nickel AN - Antique Nickel AC - Antique Copper	MO - Mocha CA - Cappuccino CR - Chrome NS - Natural Steel PB - Polished Brass	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LRD4R	04	LED							

Example: LRD4R- 04 - LED - 27 - 120 - Rt4R - HZ - BL - WH - EM

Project Name _____ Fixture Type _____ Cat# _____

TITLE 24 COMPLIANT · **cETLus Intertek** · **ENERGY STAR** · **Dimmable**

LRD4R Features & Benefits

Housing
- Single wall aluminum housing gasketed for IC/Air-Tight in insulated ceiling.
- 5-1/2" height allows use in 2"x 6" joist construction.

Junction Box
- Listed for through-branch circuit wiring.(Max. 8) No 12 AWG 90°C branch-circuit conductors.
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.
- Provided listed quick connectors for easy snap-on wires. (Optional)

Remodel Clips
- 3 remodel clips secure housing and accommodates 1/2" and 5/8" ceiling materials.

Trims
- Available with baffle trims in white or black painted and haze clear reflectors.
- Available in the (2) different upper reflectors for each be MED (Medium spot beam): 30˚, WFL (Wide flood spot beam): 45˚.

Optics
- Glass Lens: Textured fine surface of tempered glass providing high lumen transmission and diffuser for even illumination.

LED Engine
- Heat sink designed by computer simulation and aluminum board for low heat operation.
- Uniform color temperature within 3 SDCM.

LED power supply driver
- 120-277V input high efficacy drivers dimming by 0-10V dimmer switches standard.
- Power factor >.90, THD <20% with integral thermal protection.
- Emergency battery back-up : Available in mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
- Driver mounts externally to the module, allowing future replacement, if needed.
- Consult factory for optional Triac dimmable driver.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed
- State of California Title 24
- ENERGY STAR® Certified

Approved Dimmers
- Lutron: NovaT(Ntelv300&600) Diva(Dvelv-300P&303P)
- Leviton: Acenti (Ate06-1Lw) Trimatron #705W

Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

Polar Candela Distribution

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	113.3 fc	2.5 ft
4.0ft	28.3 fc	5.1 ft
6.0ft	12.6 fc	7.6 ft
8.0ft	7.1 fc	10.1 ft
10.0ft	4.5 fc	12.7 ft
12.0ft	3.1 fc	15.2 ft

Beam Spread: 64.7˚

LRD4R

TITLE 24 COMPLIANT | **Energy ENERGY STAR** | **c ETL us Intertek** | **Dimmable**

ROUND

Painted Reflector
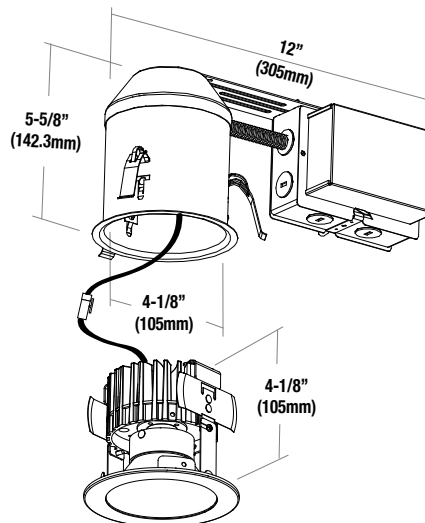**(RT6R-WH)**

Baffle
(RT6B)

Clear Reflector **(RT6R-HZ)**

REMODEL

LRD6R DESCRIPTION

Remodel housing designed for use with a separate LED engine kit that is integrated with heat sink and compatible 6" LED trims. Fixture offers easy and fast installation using a disconnect device and held securely in the housing with two pressure springs.

LED Quantity	1EA(COB)
Input Voltage	120V-277V AC
Wattage	13.8W
Lumen	733.5
Efficacy LPW	53
Beam Angle°	75°
Color	2700K - 4000K
CRI	80 (standard), 90 (optional)
Dimming	0-10V Standard, Triac Optional
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

12-3/4" (324mm)

7-1/2" (191mm)

6-1/8" (157mm)

7-9/16" (192mm)
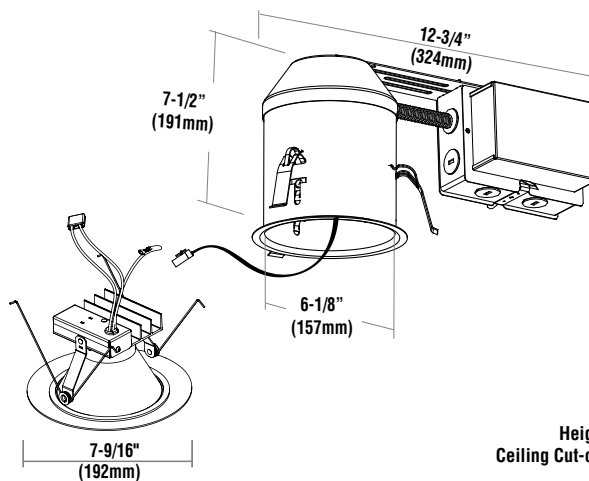
Height : 7-1/2"
Ceiling Cut-out : 6-1/2"

Ordering Information

Luminaire Prefix	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector Finish	Baffle	Optional Metal Trim Ring Finish		Options
LRD6R - 6" Residential Downlight Remodel Housing	07 - 700	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120 volt 277 - 277 volt	RT6R RT6B	WH - White HZ - Haze Clear	BL - Black WH - White	WH - White BK - Black SN - Satin Nickel AN - Antique Nickel AC - Antique Copper	MO - Mocha CA - Cappuccino CR - Chrome NS - Natural Steel PB - Polished Brass	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LRD6R	07	LED								

Example: LRD6R- 07 - LED - 27 - 120 - RT6R - HZ - BL - WH - EM

TITLE 24 COMPLIANT · **energy ENERGY STAR** · **cETLus Intertek** · **Dimmable**

LRD6R Features & Benefits

Housing
- Single wall aluminum housing gasketed for IC/Air-Tight in insulated ceiling.
- Housing can be adjustable for ceiling thickness up to 1-1/4"

Junction Box
- Listed for through-branch circuit wiring. (Max. 8) No 12 AWG 90°C branch-circuit conductors.
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.
- Provided listed quick connectors for easy snap-in wires. (Optional)

Remodel Clips
- 4 remodel clips secure housing and accommodates 1/2" and 5/8" ceiling materials.

Lens
- Impact-resistant plastic.
- High lumen transmission and diffusing for even illumination.

LED Module
- Durable aluminum extrusion heat sink integrated with COB (chip on board).
- Inner reflector provide more light and beam distribution.

LED Power Supply Driver
- 120~277V input high efficacy driver with dimming.
- Power factor >.90, THD <20% and has integral thermal protection.
- Driver installed on junction box door for easy access below ceiling.
- Consult with factory for optional 0~10V analog dimmable driver.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed
- State of California Title 24
- ENERGY STAR® Certified

Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)
- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W

Consult factory for additional dimmers

Lutron, Nova and Diva are trademarks of Lutron Electronics Co., Inc. Leviton, Acenti and Trimatron are trademarks of Leviton Manufacturing Co., Inc.

Photometrics (Contact factory for IES file)

Polar Candela Distribution

LRD6R - LED

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	147.2 fc	3.1 ft
4.0ft	36.8 fc	6.1 ft
6.0ft	16.3 fc	9.2 ft
8.0ft	9.2 fc	12.3 ft
10.0ft	5.9 fc	15.3 ft
12.0ft	4.1 fc	18.4 ft

Beam Spread: 74.9°

Polar Candela Distribution

LRD6R - LED

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	118.4 fc	3.3 ft
4.0ft	29.6 fc	6.6 ft
6.0ft	13.2 fc	9.9 ft
8.0ft	7.4 fc	13.2 ft
10.0ft	4.7 fc	16.5 ft
12.0ft	3.3 fc	19.8 ft

Beam Spread: 78.9°

Commercial / Architectural

LSI's Origin™ brand Downlights for commerical and architectural applications are energy-saving solutions with great color rendering. Perfect for retail outlets, quick-serve restaurants, offices, and schools. LSI's small aperture lighting fixture choices focus attention on your products, rather than on the fixture.

Notes

TITLE 24 COMPLIANT · c**ETL**us Intertek · Energy ENERGY STAR · Dimmable

ROUND

NEW CONSTRUCTION

Clear Reflector **(RT4R-HZ)**

Painted Reflector **(RT4R-WH)**

Baffle **(RT4B)**

LRD4 DESCRIPTION

Housing is designed for use with a separate LED engine kit that is intergraled with heat sink and trims and compatible 4" LED trims. This fixture offers easy and fast installation using a disconnect device and held securely in the housing with two friction blade brackets.

LED Quantity	1EA(COB)
Input Voltage	120-277V AC
Wattage	10W
Lumen	460
Efficacy LPW	46
Beam Angle°	63°
Color	2700K, 3000K, 4000K
CRI	80
Dimming	Triac
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance

5-9/16" (141mm)

6-3/8" (162mm)

8-1/8" (207mm)

4-1/4" (109mm)

4-1/4" (109mm)

Height : 5-9/16"
Housing Aperture : 4-1/4"
Ceiling Cut-out : 4-3/8"

Ordering Information

Luminaire Prefix	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	
LRD4 - 4" Residential Downlight	04 - 460	LED	27 - 2700K 30 - 3000K 40 - 4000K	120 - 120 volt 277 - 277 volt	RT4R RT4B	WH - White HAZ - Semi-diffused/Satin CH - Champagne PW - Pewter	BB - Black Baffle WB - White Baffle	WH - White BK - Black SN - Satin Nickel AN - Antique Nickel AC - Antique Copper	MO - Mocha CA - Cappuccino CR - Chrome NS - Natural Steel PB - Polished Brass

SELECTION:

LRD4	04	LED							

Example: LRD4 - 04 - LED - 27 - 120 - Rt4R - HAZ - BL - WH - EM

TITLE 24 COMPLIANT | cETLus Intertek | ENERGY STAR | Dimmable

ROUND

NEW CONSTRUCTION

LRD4 Features & Benefits

Housing
- Galvanized steel housing, painted black.
- Housing can be adjusted for ceiling thickness up to 1-1/4".

Junction Box
- Listed for through-branch circuit wiring. (Max.8) No 12 AWG 90°C branch-circuit conductors.
- (5)1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.
- Provided listed quick connectors for easy snap-on wires. (Optional)

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist span.
- Score lines allow shortening for 12" joists without tools.

Trims
- Available with baffle trims in white or black painted and haze clear reflectors.
- Available in the (2) different upper reflectors for each be MED (Medium spot beam): 30°, WFL(Wide flood spot beam): 45°.

Optics
- Glass Lens: Textured fine surface of tempered glass providing high lumen transmission and diffuser for even illumination.

LED Engine
- Heat sink and aluminum board for low heat operation.
- Uniform color temperature within 3 SDCM.

LED Power Supply Driver
- 120-277V input high efficacy drivers with dimming by 0-10V dimmer switches.
- Power factor >.90, THD <20% with integral thermal protection.
- Emergency battery back-up: In-mounted to fixture or remote options availalbe (consult factory).
- Driver mounts external to the module, allowing future replacement, if needed.
- Consult factory for optional Triac dimmable driver.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed   • State of California Title 24   • ENERGY STAR® Certified

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Approved Dimmers
- Lutron: NovaT(Ntelv300&600) Diva(Dvelv-300P&303P)
- Leviton: Acenti (Ate06-1Lw) Trimatron #705W

Consult factory for additional dimmers

Lutron, Nova and Diva are trademarks of Lutron Electronics Co., Inc. Leviton, Acenti and Trimatron are trademarks of Leviton Manufacturing Co., Inc.

Photometrics (Contact factory for IES file)

Polar Candela Distribution
180°170°160°150° 140°

460 / 383 / 307 / 230 / 153 / 77 / CD: 0 / 77 / 153 / 230 / 307 / 383 / 460

VA: 0° 10° 20° 30° 40°

LRD4 - 10 - LED

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	113.3 fc	2.5 ft
4.0ft	28.3 fc	5.1 ft
6.0ft	12.6 fc	7.6 ft
8.0ft	7.1 fc	10.1 ft
10.0ft	4.5 fc	12.7 ft
12.0ft	3.1 fc	15.2 ft

Beam Spread: 64.7°

Project Name _____ | Fixture Type _____ | Cat# _____

ROUND

ARCHITECTURAL FRAME-IN KIT

Open Reflector **(TR6R)**

Wall Wash w/ Kick-off Plate **(TR6WW)**

Baffled lens w/ Reflector **(TR6BL)**

Reflector w/ Frosted Floating Lens **(TR6RFL)**

Reflector w/ Regressed Lens **(TR6RL)**

NOTE: All trims are damp location rated.
Regressed lens trims are wet location listed.

Baffle w/ Reflector **(TR6B)**

LAD6 DESCRIPTION

6" Architectural, non-IC rated frame-in kits (combined with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. High-efficacy LED with 0-10V dimmable driver and special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)			
Input Voltage	120-277V AC			
Light Engine	13	20	29	41
Wattage	14W	23W	30W	45W
Lumen	1321	2052	2934	4103
Efficacy LPW	95	90	90	97
Beam Angle°	48°	52°	52°	52°
Color	2700K, 3000K, 3500K, 4000K			
CRI	80 (standard), 90 (optional)			
Dimming	0-10V Standard, Triac			
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance			

Ceiling Cut-out: 6-1/2"

6-3/4" (170.4mm)

7-7/8" (200mm)

6-1/16" (153mm)

12-3/8" (313.7mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options	Accessories[2]
LAD6 - 6" Architectural Downlight	13 20 29 41	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	13 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	20,29,41 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR6R - Open TR6B - Baffle TR6BL - Baffle Lens TR6RL - Regressed Lens TR6RFL - Frosted Floating Lens TR6RWW - Wall Wash	(Self-Flanged) SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3],[4] SF CH - Champagne[3] SF PW - Pewter[3] (Flangeless - Requires Trim Ring) HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR6B & TR6BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI	C27 - 27" Channel Bars (pair) C52 - 52" Channel Bars (pair) NB - Nailer Bar Kit (set of 4) SCIK - Suspended Ceiling Installation Kit (set of 4 bars and 4 grid clips)

SELECTION:

LAD6		LED									

Example: LAD6 - 41 - LED - 30 - 52 - UE - TR6R - SF - HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.
2 - Accessories are field installed.
3 - Self Flanged reflectors available with open trims only.
4 - SPC finish not available with wall wash trims.

TITLE 24 COMPLIANT · **ETL LISTED Intertek** · **ENERGY STAR** · **Dimmable**

LAD6 Features & Benefits

Mounting Ring
• 20-gauge CRS mounting ring, painted black. 1-5/8" deep collar for use with ceiling materials of various thicknesses.

LED Module & Trim
• Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
• Module construction includes LED, heat sink and lens.
• Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors with black and white milled groove baffle collar.
• Uniform color temperature within 3 SDCM.

Junction Box
• Listed for through-branch circuit wiring. (Max.8) No 12 AWG 90 branch-circuit conductors. (4 in, 4 out)
• (5)1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
• Ground wire provided on J-box.

Mounting Channel Bracket
• Butterfly Brackets provide up to 5" vertical adjustment which accommodates 1/2" EMT conduit (by others). Optional 27", 52" C-Channels, nailer bars, and suspended ceiling kit available. See accessories.

LED Power Supply Driver
• 120-277V input high efficacy drivers
• Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
• Triac dimming only at 120 Vac.
• Deep dimming from 100% down to 1%
• Power factor >.90, THD <20% and has integral thermal protection.
• Emergency battery back-up : Available in mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
• Driver mounts externally to the module, allowing future replacement, if needed.

Warranty
• LSI LED Fixtures carry a limited 5-year warranty.

Listings
• cETLus Listed   • State of California Title 24   • ENERGY STAR® Certified
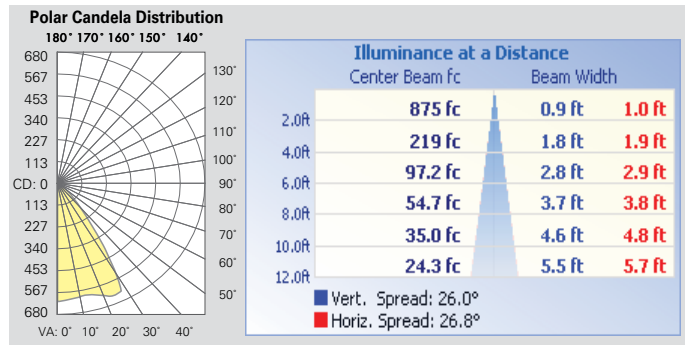
Approved Dimmers
• Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

  Nova 0-10V (NTFTV)
  Diva 0-10V (DVTV)

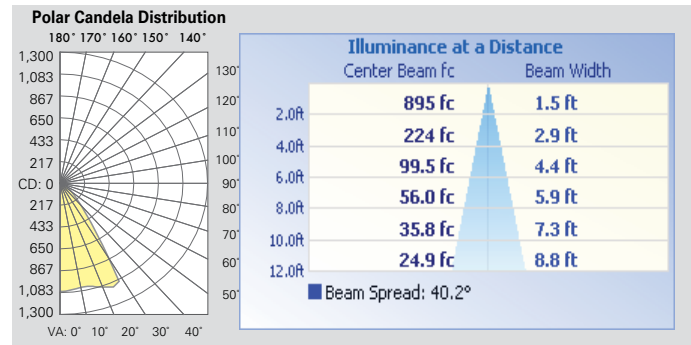• Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W
  Decora 0-10V (IP710DL)

  Consult factory for additional dimmers

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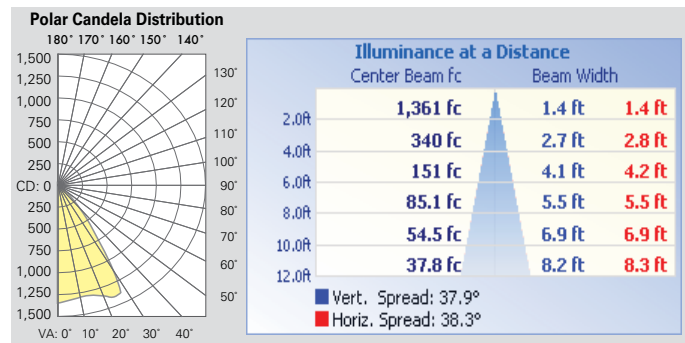
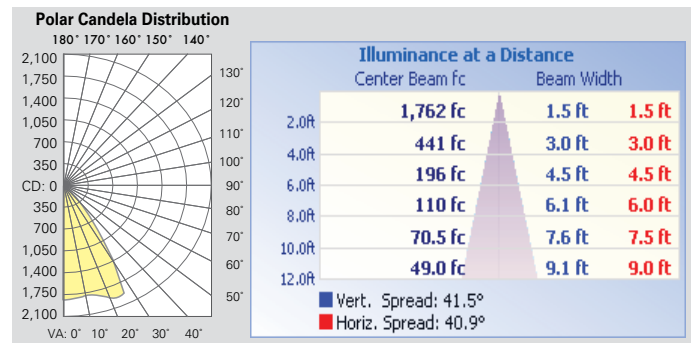## Photometrics (Contact factory for IES file)

LAD6-13-LED

Distance	Center Beam fc	Beam Width	
2.0 ft	875 fc	0.9 ft	1.0 ft
4.0 ft	219 fc	1.8 ft	1.9 ft
6.0 ft	97.2 fc	2.8 ft	2.9 ft
8.0 ft	54.7 fc	3.7 ft	3.8 ft
10.0 ft	35.0 fc	4.6 ft	4.8 ft
12.0 ft	24.3 fc	5.5 ft	5.7 ft

Vert. Spread: 26.0°
Horiz. Spread: 26.8°

LAD6-20-LED

Distance	Center Beam fc	Beam Width
2.0 ft	895 fc	1.5 ft
4.0 ft	224 fc	2.9 ft
6.0 ft	99.5 fc	4.4 ft
8.0 ft	56.0 fc	5.9 ft
10.0 ft	35.8 fc	7.3 ft
12.0 ft	24.9 fc	8.8 ft

Beam Spread: 40.2°

LAD6-29-LED

Distance	Center Beam fc	Beam Width	
2.0 ft	1,361 fc	1.4 ft	1.4 ft
4.0 ft	340 fc	2.7 ft	2.8 ft
6.0 ft	151 fc	4.1 ft	4.2 ft
8.0 ft	85.1 fc	5.5 ft	5.5 ft
10.0 ft	54.5 fc	6.9 ft	6.9 ft
12.0 ft	37.8 fc	8.2 ft	8.3 ft

Vert. Spread: 37.9°
Horiz. Spread: 38.3°

LAD6-41-LED

Distance	Center Beam fc	Beam Width	
2.0 ft	1,762 fc	1.5 ft	1.5 ft
4.0 ft	441 fc	3.0 ft	3.0 ft
6.0 ft	196 fc	4.5 ft	4.5 ft
8.0 ft	110 fc	6.1 ft	6.0 ft
10.0 ft	70.5 fc	7.6 ft	7.5 ft
12.0 ft	49.0 fc	9.1 ft	9.0 ft

Vert. Spread: 41.5°
Horiz. Spread: 40.9°

Project Name _____   Fixture Type _____   Cat# _____

ROUND

ARCHITECTURAL FRAME-IN KIT

Baffle w/ Reflector **(TR8B)**

Open Reflector **(TR8R)**

Wall Wash w/ Kick-off Plate **(TR8WW)**

Baffled lens w/ Reflector **(TR8BL)**
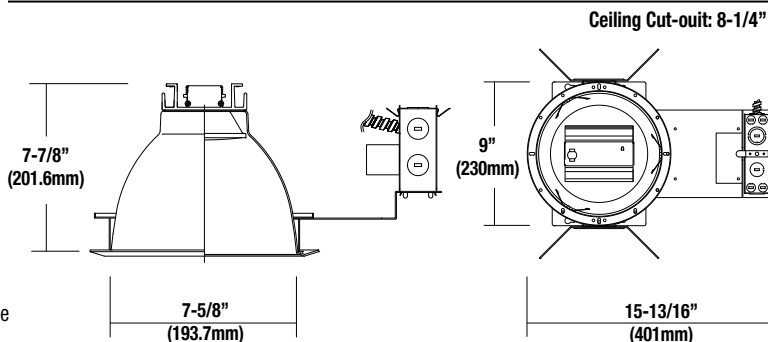
Reflector w/ Frosted Floating Lens **(TR8RFL)**

Reflector w/ Regressed Lens **(TR8RL)**

**NOTE: All trims are damp location rated.
Regressed lens trims are wet location listed.**

LAD8 DESCRIPTION

8" Architectural, non-IC rated frame-in kits (combined with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. High-efficacy LED with 0-10V dimmable driver and special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)			
Input Voltage	120-277V AC			
Light Engine	13	20	30	41
Wattage	14W	23W	30W	45W
Lumen	1362	2084	3088	4145
Efficacy LPW	98	91	95	98
Beam Angle°	48°	52°	52°	52°
Color	2700K, 3000K, 3500K, 4000K			
CRI	80 (standard), 90 (optional)			
Dimming	0-10V Standard, Triac			
Lamp Life	Rated for 50,000 hrs at 70%lumen maintenance			

Ceiling Cut-ouit: 8-1/4"

7-7/8" (201.6mm)

7-5/8" (193.7mm)

9" (230mm)

15-13/16" (401mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options	Accessories[2]
LAD8 - 8" Architectural Downlight	13 20 30 41	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	**13** 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	**20,29,41** 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR8R - Open TR8B - Baffle TR8BL - Baffle Lens TR8RL - Regressed Lens TR8RFL - Frosted Floating Lens TR8RWW - Wall Wash	**(Self-Flanged)** SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3,4] SF CH - Champagne[3] SF PW - Pewter[3] **(Flangeless - Requires Trim Ring)** HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR8B & TR8BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI	C27 - 27" Channel Bars (pair) C52 - 52" Channel Bars (pair) NB - Nailer Bar Kit (set of 4) SCIK - Suspended Ceiling Installation Kit (set of 4 bars and 4 grid clips)

SELECTION:

LAD8		LED									

Example: LAD8 - 41 - LED - 30 - 52 - UE - TR8R - SF- HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.
2- Accessories are feild installed.

3 - Self Flanged reflectors available with open trims only.
4 - SPC finish not available with wall wash trims.

LAD8 Features & Benefits

Mounting Ring
• 20-gauge CRS mounting ring, black-painted. 1-5/8" deep collar may use for various thickness of ceiling materials.

LED Module & Trim
• Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
• Module construction includes LED, heat sink and lens.
• Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors with black and white milled groove baffle collar.
• Uniform color temperature within 3 SDCM.

Junction Box
• Listed for through-branch circuit wiring. (Max. 8) No 12 AWG 90 branch-circuit conductors. (4 in, 4 out)
• (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
• Ground wire provided on J-box.

Mounting Channel Bracket.
• Butterfly Brackets provide up to 5" vertical adjustment which accommodates 1/2" EMT conduit (by others). Optional 27", 52" C-Channels, nailer bars, and suspended ceiling kit available. See accessories.

LED Power Supply Driver
• 120-277V input high efficacy drivers
• Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
• Triac dimming only at 120 Vac.
• Deep dimming from 100% down to 1%
• Power factor >.90, THD <20% with integral thermal protection.
• Emergency battery back-up: In-mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
• Driver mounts externally to the module, allowing future replacement, if needed.

Warranty
• LSI LED Fixtures carry a limited 5-year warranty.

Listings
• cETLus Listed   • State of California Title 24
• ENERGY STAR® Certified

Approved Dimmers
* Lutron: NovaT(Ntelv300&600)
            Diva(Dvelv-300P&303P)
* Leviton: Acenti: Ate06-1Lw
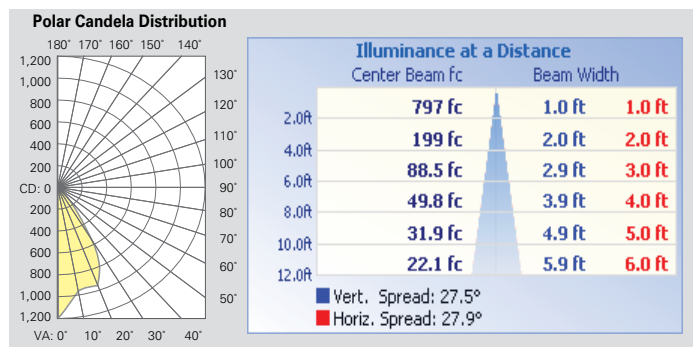* Leviton Trimatron #705W (incandescent)

* Lutron: Nova® 0-10V : NTFTV
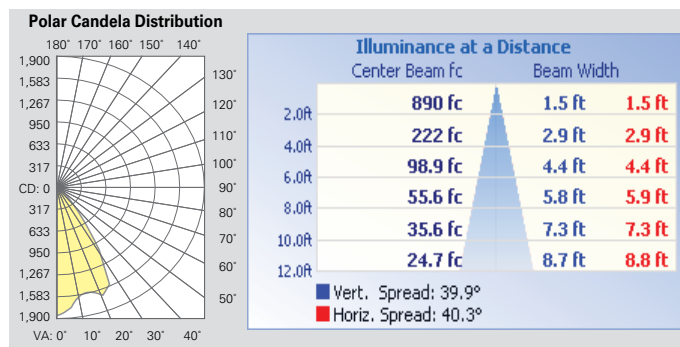   Diva® 0-10V : DVTV
* Leviton: Decora 0-10V : IP710DL

Consult factory for additional dimmers

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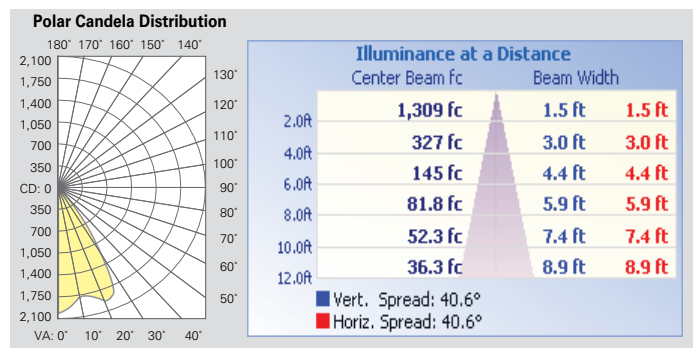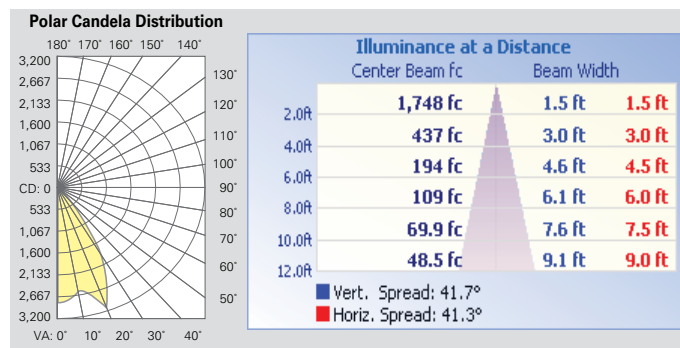
Photometrics (Contact factory for IES file)

LAD8-13-LED

	Center Beam fc	Beam Width	
2.0ft	797 fc	1.0 ft	1.0 ft
4.0ft	199 fc	2.0 ft	2.0 ft
6.0ft	88.5 fc	2.9 ft	3.0 ft
8.0ft	49.8 fc	3.9 ft	4.0 ft
10.0ft	31.9 fc	4.9 ft	5.0 ft
12.0ft	22.1 fc	5.9 ft	6.0 ft

Vert. Spread: 27.5°
Horiz. Spread: 27.9°

LAD8-20-LED

	Center Beam fc	Beam Width	
2.0ft	890 fc	1.5 ft	1.5 ft
4.0ft	222 fc	2.9 ft	2.9 ft
6.0ft	98.9 fc	4.4 ft	4.4 ft
8.0ft	55.6 fc	5.8 ft	5.9 ft
10.0ft	35.6 fc	7.3 ft	7.3 ft
12.0ft	24.7 fc	8.7 ft	8.8 ft

Vert. Spread: 39.9°
Horiz. Spread: 40.3°

LAD8-30-LED

	Center Beam fc	Beam Width	
2.0ft	1,309 fc	1.5 ft	1.5 ft
4.0ft	327 fc	3.0 ft	3.0 ft
6.0ft	145 fc	4.4 ft	4.4 ft
8.0ft	81.8 fc	5.9 ft	5.9 ft
10.0ft	52.3 fc	7.4 ft	7.4 ft
12.0ft	36.3 fc	8.9 ft	8.9 ft

Vert. Spread: 40.6°
Horiz. Spread: 40.6°

LAD8-41-LED

	Center Beam fc	Beam Width	
2.0ft	1,748 fc	1.5 ft	1.5 ft
4.0ft	437 fc	3.0 ft	3.0 ft
6.0ft	194 fc	4.6 ft	4.5 ft
8.0ft	109 fc	6.1 ft	6.0 ft
10.0ft	69.9 fc	7.6 ft	7.5 ft
12.0ft	48.5 fc	9.1 ft	9.0 ft

Vert. Spread: 41.7°
Horiz. Spread: 41.3°

Project Name _____ | Fixture Type _____ | Cat# _____

TITLE 24 COMPLIANT · ETL Intertek · ENERGY STAR · Dimmable

ROUND

COMMERCIAL FRAME-IN KIT

Open Reflector **(TR4R)**

Baffle w/ Reflector **(TR4B)**

Baffled lens w/ Reflector **(TR4BL)**

Reflector w/ Regressed Lens **(TR4RL)**

Reflector w/ Frosted Floating Lens **(TR4RFL)**

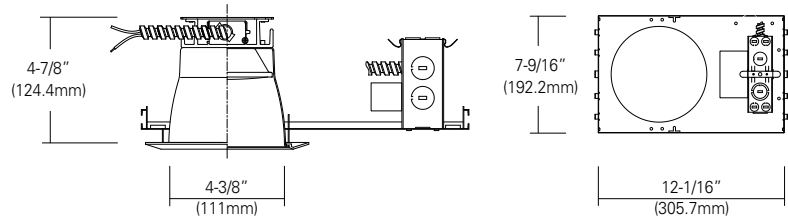**NOTE: All trims are damp location rated. Regressed lens trims are wet location listed.**

LCD4 DESCRIPTION

4" flat frame-in kits (with LED module and integral reflector) are designed for use in non-insulated ceiling. Insulation material must be kept a minimum of 3" from fixture. Provided in high efficacy LED with dimmable driver and the special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)	
Input Voltage	120-277V	
Light Engine	12	19
Wattage	14W	23W
Lumen	1293	1952
Efficacy LPW	92	85
Beam Angle°	48°	48°
Color	2700K - 4000K	
CRI	80 (standard), 90 (optional)	
Dimming	0-10V Standard, Triac	
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance	

Ceiling Cut-out: 5"

4-7/8" (124.4mm)

4-3/8" (111mm)

7-9/16" (192.2mm)

12-1/16" (305.7mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options
LCD4 - 4" Architectural Downlight	12 19	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	13 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	19,29,41 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR4R - Open TR4B - Baffle TR4BL - Baffle Lens TR4RL - Regressed Lens TR4RFL - Frosted Floating Lens	(Self-Flanged) SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3],[4] SF CH - Champagne[3] SF PW - Pewter[3] (Flangeless - Requires Trim Ring) HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR4B & TR4BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LCD4		LED								

Example: LCD4 - 19 - LED - 30 - 52 - UE - TR4R - SF - HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.
2- Accessories are feild installed.
3 - Self Flanged reflectors available with open trims only.
4 - SPC finish not available with wall wash trims.

LCD4 Features & Benefits

Mounting Frame
- Galvanized steel construction.
- Housing adjusts for ceilings up to 1-1/4" thick.

LED Module & Trim (For FRK4)
- Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
- Module construction includes LED, heat sink and lens.
- Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors with black and white milled groove baffle collar.
- Uniform color temperature within 3 SDCM.

Junction Box
- Listed for through-branch circuit wiring. (Max. 8 No 12 AWG 90 branch-circuit conductors. [4 in, 4 out])
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist span.
- Score lines allow shortening for 12" joists without tools.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

LED Power Supply Driver
- 120-277V input high efficacy drivers
- Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
- Triac dimming only at 120 Vac
- Deep dimming from 100% down to 1%
- Power factor >.90, THD <20% with integral thermal protection.
- Emergency battery back-up: In-mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
- Driver mounts externally to the module, allowing future replacement, if needed

Listings
- cETLus Listed • State of California Title 24 • ENERGY STAR® Certified

Quick-connect Case
In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any
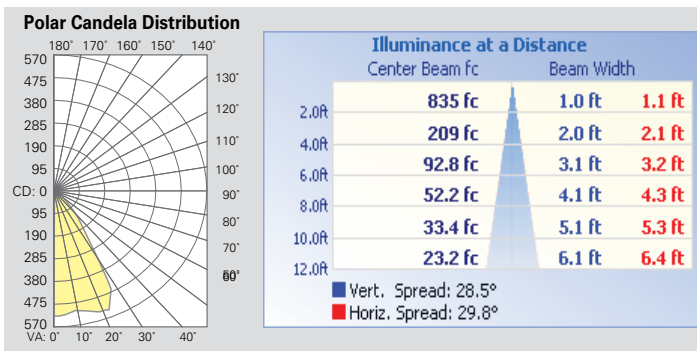
Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

  Nova 0-10V (NTFTV)
  Diva 0-10V (DVTV)

- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W
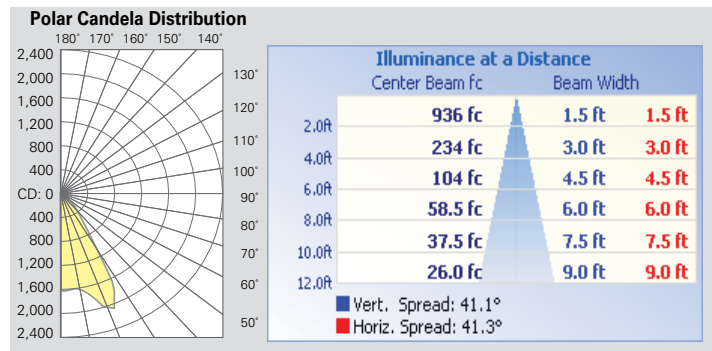 Decora 0-10V (IP710DL)

  Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

Polar Candela Distribution

	Illuminance at a Distance		
	Center Beam fc	Beam Width	
2.0 ft	835 fc	1.0 ft	1.1 ft
4.0 ft	209 fc	2.0 ft	2.1 ft
6.0 ft	92.8 fc	3.1 ft	3.2 ft
8.0 ft	52.2 fc	4.1 ft	4.3 ft
10.0 ft	33.4 fc	5.1 ft	5.3 ft
12.0 ft	23.2 fc	6.1 ft	6.4 ft

Vert. Spread: 28.5°
Horiz. Spread: 29.8°

LCD4-12-LED

Polar Candela Distribution

	Illuminance at a Distance		
	Center Beam fc	Beam Width	
2.0 ft	936 fc	1.5 ft	1.5 ft
4.0 ft	234 fc	3.0 ft	3.0 ft
6.0 ft	104 fc	4.5 ft	4.5 ft
8.0 ft	58.5 fc	6.0 ft	6.0 ft
10.0 ft	37.5 fc	7.5 ft	7.5 ft
12.0 ft	26.0 fc	9.0 ft	9.0 ft

Vert. Spread: 41.1°
Horiz. Spread: 41.3°

LCD4-19-LED

Project Name _____ Fixture Type _____ Cat# _____

ROUND

COMMERCIAL FRAME-IN KIT

Open Reflector **(TR6R)**

Wall Wash w/ Kick-off Plate **(TR6WW)**

Baffled lens w/ Reflector **(TR6BL)**

Reflector w/ Frosted Floating Lens **(TR6RFL)**

Reflector w/ Regressed Lens **(TR6RL)**

NOTE: All trims are damp location rated.
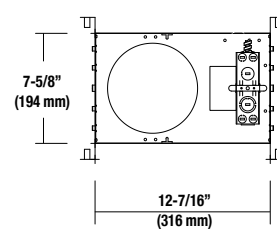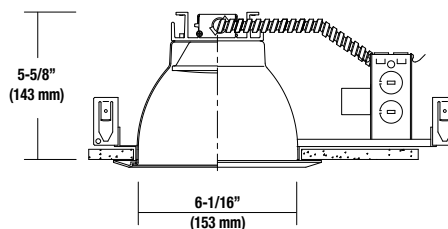**Regressed lens trims are wet location listed.**

Baffle w/ Reflector **(TR6B)**

LCD6 DESCRIPTION

6" commercial frame-in kits (with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. Provided in high efficacy LED with dimmable driver and the special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)			
Input Voltage	120-277V AC			
Light Engine	13	20	29	41
Wattage	14W	23W	30W	45W
Lumen	1321	2052	2934	4103
Efficacy LPW	95	90	90	97
Beam Angle°	48°	52°	52°	52°
Color	2700K - 4000K			
CRI	80 (standard), 90 (optional)			
Dimming	0-10V Standard, Triac			
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance			

Ceiling Cut-out: 6-1/2"

5-5/8" (143 mm)

6-1/16" (153 mm)

7-5/8" (194 mm)

12-7/16" (316 mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options
LCD6 - 6" Architectural Downlight	13 20 29 41	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	**13** 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	**20,29,41** 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR6R - Open TR6B - Baffle TR6BL - Baffle Lens TR6RL - Regressed Lens TR6RFL - Frosted Floating Lens TR6RWW - Wall Wash	**(Self-Flanged)** SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3],[4] SF CH - Champagne[3] SF PW - Pewter[3] **(Flangeless - Requires Trim Ring)** HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR6B & TR6BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LCD6		LED								

Example: LCD6 - 41 - LED - 30 - 52 - UE - TR6R - SF - HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.
2- Accessories are feild installed.
3 - Self Flanged reflectors available with open trims only.
4 - SPC finish not available with wall wash trims.

LCD6 Features & Benefits

Mounting Frame
- Galvanized steel construction.
- Housing adjusts for ceilings up to 1-1/4" thick.

LED Module & Trim
- Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
- Module construction includes LED, heat sink and lens.
- Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors provided with black and white milled groove baffle collar.
- Uniform color temperature within 3 SDCM.

Junction Box
- Listed for through-branch circuit wiring. (Max 8 No 12 AWG 90 branch-circuit conductors. [4 in, 4 out])
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist span.
- Score lines allow adjustment for 12" joists without tools.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

LED Power Supply Driver
- 120-277V input high efficacy drivers
- Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
- Triac dimming only at 120 Vac
- Deep dimming from 100% down to 1%
- Power factor >.90, THD <20% with integral thermal protection.
- Emergency battery back-up: Available in mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
- Driver mounts externally to the module, allowing future replacement, if needed.

Listings
- cETLus Listed
- State of California Title 24
- ENERGY STAR® Certified

Quick-connect Case
In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.
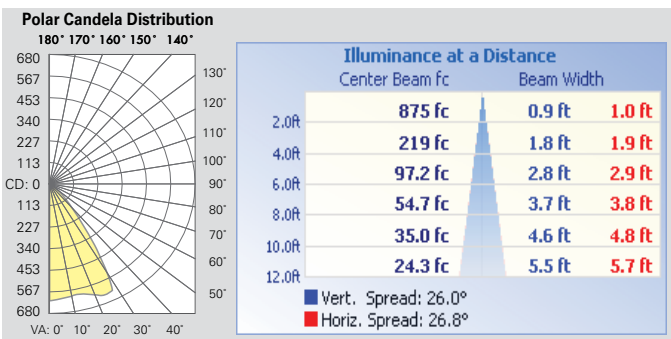
Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

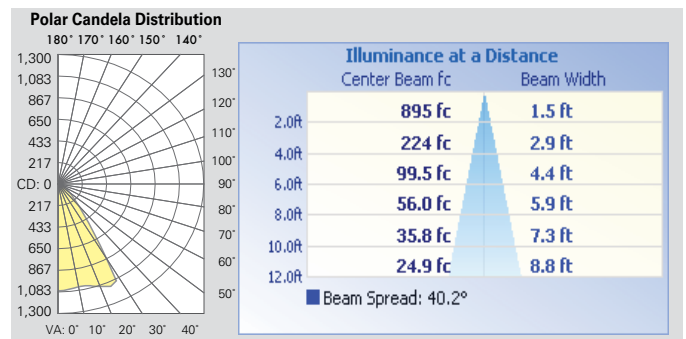 Nova 0-10V (NTFTV)
  Diva 0-10V (DVTV)

- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W
  Decora 0-10V (IP710DL)

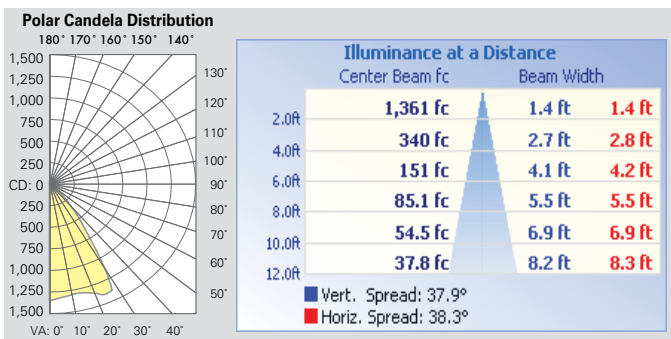 *Consult factory for additional dimmers*

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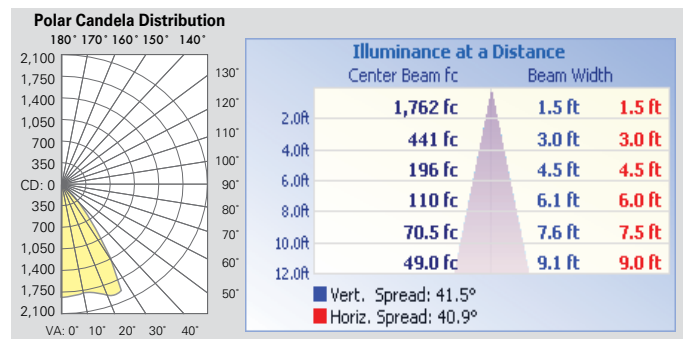
Photometrics (Contact factory for IES file)

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0ft	875 fc	0.9 ft	1.0 ft
4.0ft	219 fc	1.8 ft	1.9 ft
6.0ft	97.2 fc	2.8 ft	2.9 ft
8.0ft	54.7 fc	3.7 ft	3.8 ft
10.0ft	35.0 fc	4.6 ft	4.8 ft
12.0ft	24.3 fc	5.5 ft	5.7 ft

Vert. Spread: 26.0°
Horiz. Spread: 26.8°

LAD6-13-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0ft	895 fc	1.5 ft	
4.0ft	224 fc	2.9 ft	
6.0ft	99.5 fc	4.4 ft	
8.0ft	56.0 fc	5.9 ft	
10.0ft	35.8 fc	7.3 ft	
12.0ft	24.9 fc	8.8 ft	

Beam Spread: 40.2°

LAD6-20-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0ft	1,361 fc	1.4 ft	1.4 ft
4.0ft	340 fc	2.7 ft	2.8 ft
6.0ft	151 fc	4.1 ft	4.2 ft
8.0ft	85.1 fc	5.5 ft	5.5 ft
10.0ft	54.5 fc	6.9 ft	6.9 ft
12.0ft	37.8 fc	8.2 ft	8.3 ft

Vert. Spread: 37.9°
Horiz. Spread: 38.3°

LAD6-29-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0ft	1,762 fc	1.5 ft	1.5 ft
4.0ft	441 fc	3.0 ft	3.0 ft
6.0ft	196 fc	4.5 ft	4.5 ft
8.0ft	110 fc	6.1 ft	6.0 ft
10.0ft	70.5 fc	7.6 ft	7.5 ft
12.0ft	49.0 fc	9.1 ft	9.0 ft

Vert. Spread: 41.5°
Horiz. Spread: 40.9°

LAD6-45-LED

Project Name _____ | Fixture Type _____ | Cat# _____

ROUND

COMMERCIAL FRAME-IN KIT

Baffle w/ Reflector **(TR8B)**

Open Reflector **(TR8R)**

Wall Wash w/ Kick-off Plate **(TR8WW)**

Baffled lens w/ Reflector **(TR8BL)**

Reflector w/ Frosted Floating Lens **(TR8RFL)**

Reflector w/ Regressed Lens **(TR8RL)**

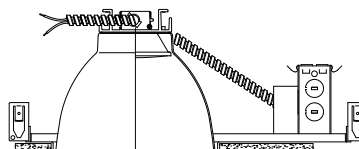**NOTE: All trims are damp location rated. Regressed lens trims are wet location listed.**

LCD8 DESCRIPTION

8" commercial frame-in kits are (with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. High efficacy LED with dimmable driver and special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)			
Input Voltage	120-277V AC			
Light Engine	13	20	30	41
Wattage	14W	23W	30W	45W
Lumen	1362	2084	3088	4145
Efficacy LPW	98	91	95	98
Beam Angle°	48°	52°	52°	52°
Color	2700K, 4000K			
CRI	80 (standard), 90 (optional)			
Dimming	0-10V Standard, Triac			
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance			

Ceiling Cut-out: 8-1/8"

7-7/8" (201.6mm)

7-5/8" (193.7mm)

11-5/16" (287.2mm)
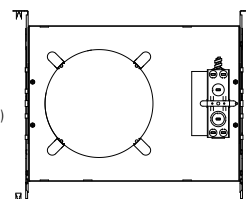
15-3/8" (390mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options
LCD8 - 8" Architectural Downlight	13 20 30 41	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	**13** 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	**20,29,41** 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR8R - Open TR8B - Baffle TR8BL - Baffle Lens TR8RL - Regressed Lens TR8RFL - Frosted Floating Lens TR8RWW - Wall Wash	**(Self-Flanged)** SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3],[4] SF CH - Champagne[3] SF PW - Pewter[3] **(Flangeless - Requires Trim Ring)** HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR8B & TR8BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI

SELECTION:

| LCD8 | | LED | | | | | | | | |

Example: LCD8 - 41 - LED - 30 - 52 - UE - TR8R - SF - HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.
2- Accessories are feild installed.

3 - Self Flanged reflectors available with open trims only.
4 - SPC finish not available with wall wash trims.

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LCD8 Features & Benefits

Mounting Frame
- Galvanized steel construction.
- Housing adjusts for ceilings up to 1-1/4" thick.

LED Module & Trim
- Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
- Module construction includes LED, heat sink and lens.
- Heavy gauge aluminum reflector anodized in clear, haze, gold,n champagne and pewter color finish. Reflectors provided with black and white milled groove baffle collar.
- Uniform color temperature within 3 SDCM.

Junction Box
- Listed for through branch circuit wiring. (Max .8 No 12 AWG 90 branch circuit conductors. [4 in, 4 out])
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.

Bar Hangers
- 24" Bar Hangers provide stability and support on joists and T-Bar Grid ceilings.
- Housing can be positioned at any point within 24" joist span.
- Score lines allow shortening for 12" joists without tools.

LED Power Supply Driver
- 120-277V input high efficacy drivers
- Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
- Triac dimming only at 120 Vac
- Deep dimming from 100% down to 1%
- Power factor >.90, THD <20% with integral thermal protection.
- Emergency battery back-up: Available in mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
- Driver mounts externally to the module, allowing future replacement, if needed

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed   • State of California Title 24   • ENERGY STAR® Certified

Quick-connect Case
In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.
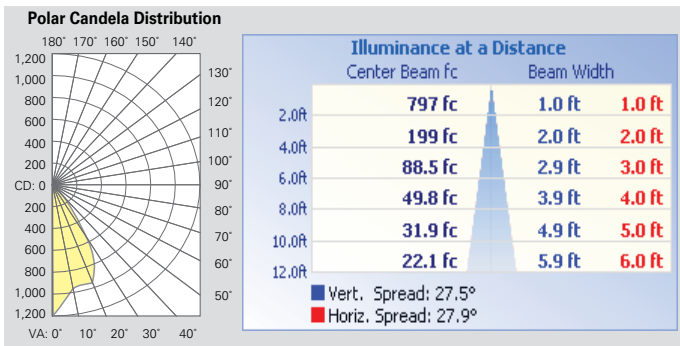
Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
    Diva(Dvelv-300P&303P)

    Nova 0-10V (NTFTV)
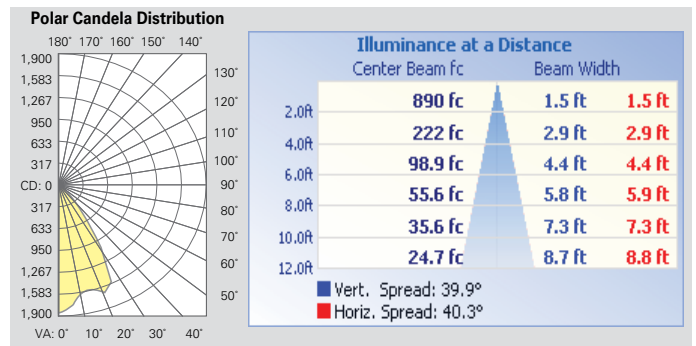   Diva 0-10V (DVTV)

- Leviton: Acenti (Ate06-1Lw)
    Trimatron #705W
    Decora 0-10V (IP710DL)

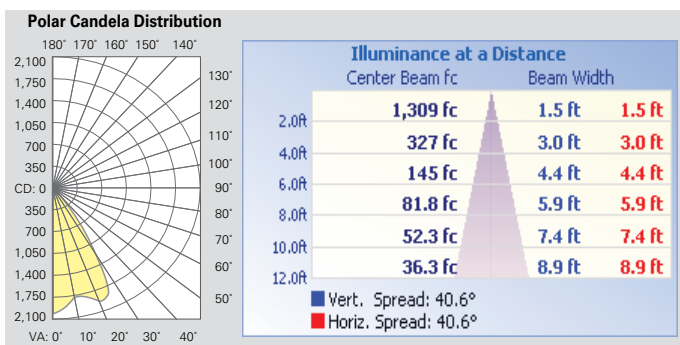   *Consult factory for additional dimmers*

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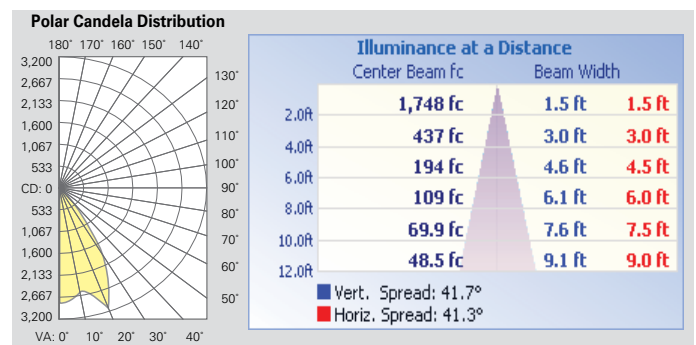
Photometrics (Contact factory for IES file)

Polar Candela Distribution

Illuminance at a Distance — LAD8-13-LED

	Center Beam fc	Beam Width	
2.0 ft	797 fc	1.0 ft	1.0 ft
4.0 ft	199 fc	2.0 ft	2.0 ft
6.0 ft	88.5 fc	2.9 ft	3.0 ft
8.0 ft	49.8 fc	3.9 ft	4.0 ft
10.0 ft	31.9 fc	4.9 ft	5.0 ft
12.0 ft	22.1 fc	5.9 ft	6.0 ft

Vert. Spread: 27.5°
Horiz. Spread: 27.9°

Polar Candela Distribution

Illuminance at a Distance — LAD8-20-LED

	Center Beam fc	Beam Width	
2.0 ft	890 fc	1.5 ft	1.5 ft
4.0 ft	222 fc	2.9 ft	2.9 ft
6.0 ft	98.9 fc	4.4 ft	4.4 ft
8.0 ft	55.6 fc	5.8 ft	5.9 ft
10.0 ft	35.6 fc	7.3 ft	7.3 ft
12.0 ft	24.7 fc	8.7 ft	8.8 ft

Vert. Spread: 39.9°
Horiz. Spread: 40.3°

Polar Candela Distribution

Illuminance at a Distance — LAD8-30-LED

	Center Beam fc	Beam Width	
2.0 ft	1,309 fc	1.5 ft	1.5 ft
4.0 ft	327 fc	3.0 ft	3.0 ft
6.0 ft	145 fc	4.4 ft	4.4 ft
8.0 ft	81.8 fc	5.9 ft	5.9 ft
10.0 ft	52.3 fc	7.4 ft	7.4 ft
12.0 ft	36.3 fc	8.9 ft	8.9 ft

Vert. Spread: 40.6°
Horiz. Spread: 40.6°

Polar Candela Distribution

Illuminance at a Distance — LAD8-41-LED

	Center Beam fc	Beam Width	
2.0 ft	1,748 fc	1.5 ft	1.5 ft
4.0 ft	437 fc	3.0 ft	3.0 ft
6.0 ft	194 fc	4.6 ft	4.5 ft
8.0 ft	109 fc	6.1 ft	6.0 ft
10.0 ft	69.9 fc	7.6 ft	7.5 ft
12.0 ft	48.5 fc	9.1 ft	9.0 ft

Vert. Spread: 41.7°
Horiz. Spread: 41.3°

Project Name _____ Fixture Type _____ Cat# _____

ROUND

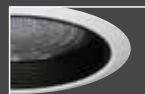**TITLE 24 COMPLIANT** | **ETL Intertek c us** | **ENERGY STAR** | **Dimmable**

Open Reflector **(TR4R)**

Baffle w/ Reflector **(TR4B)**

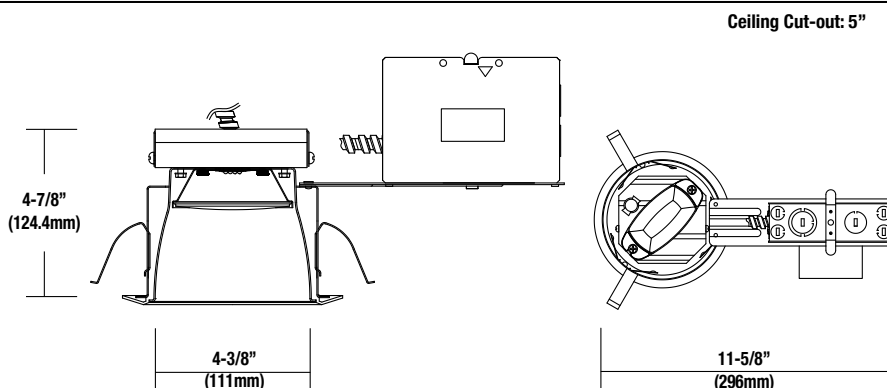Baffled lens w/ Reflector **(TR4BL)**

Reflector w/ Regressed Lens **(TR4RL)**

Reflector w/ Frosted Floating Lens **(TR4RFL)**

NOTE: All trims are damp location rated. Regressed lens trims are wet location listed.

REMODEL FRAME-IN KIT

LAD4R DESCRIPTION

4" Remodel, frame-in kits (combined with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. High-efficacy LED with 0-10V dimmable driver and special optical diffusion allows high lumen transmission and light uniformity.

LED Quantity	1EA (COB)	
Input Voltage	120-277V AC	
Light Engine	12	19
Wattage	14W	23W
Lumen	1293	1952
Efficacy LPW	92	85
Beam Angle°	48°	48°
Color	2700K, 3000K, 3500K, 4000K	
CRI	80 (standard), 90 (optional)	
Dimming	0-10V Standard, Triac	
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance	

Ceiling Cut-out: 5"

4-7/8" (124.4mm)

4-3/8" (111mm)

11-5/8" (296mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options
LAD4R - 4" Architectural Downlight	12 19	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	**13** 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	**19,29,41** 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR4R - Open TR4B - Baffle TR4BL - Baffle Lens TR4RL - Regressed Lens TR4RFL - Frosted Floating Lens	(Self-Flanged) SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3],[4] SF CH - Champagne[3] SF PW - Pewter[3] ___ (Flangeless - Requires Trim Ring) HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR4B & TR4BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LAD4R		LED								

Example: LAD4R - 19 - LED - 30 - 52 - UE - TR4R - SF - HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.
2- Accessories are feild installed.
3 - Self Flanged reflectors available with open trims only.
4 - SPC finish not available with wall wash trims.

LAD4R Features & Benefits

LED Module & Trim
- Aluminum extruded Heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
- Module construction includes LED, heat sink and lens.
- Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors may provide with black and white milled groove baffle collar.
- Uniform color temperature within 3 SDCM.

Junction Box
- Listed for through branch circuit wiring. (Max. 8) No 12 AWG 90 branch conductors. (4 in, 4 out)
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.

Remodel Clips
- 3 remodel clips secure housing and accommodates 1/2" and 5/8" ceiling materials.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed   • State of California Title 24
- ENERGY STAR® Certified

LED Power Supply Driver
- 120-277V input high efficacy drivers
- Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
- Triac dimming only at 120 Vac
- Deep dimming from 100% down to 1%
- Driver feature power factor >.90, THD <20% wth integral thermal protection to sense over temperature or internal failure.
- Emergency battery back-up: In-mounted to fixture or remote adjacent to luminaire (consult with factory for exact application).
- Driver mounts externally to the module, allowing future replacement, if needed.

Quick-connect Case
In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.

Approved Dimmers
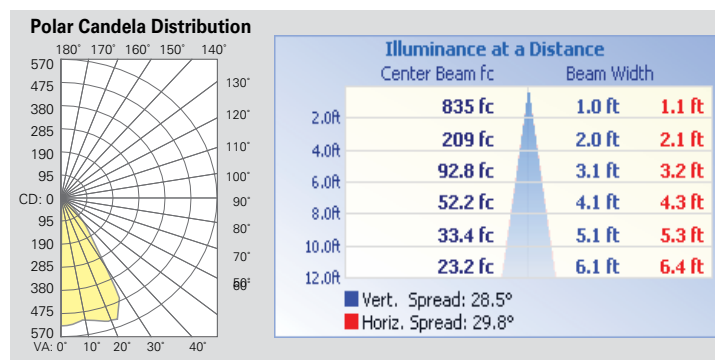- Lutron: NovaT(Ntelv300&600)
        Diva(Dvelv-300P&303P)

    Nova 0-10V (NTFTV)
    Diva 0-10V (DVTV)

- Leviton: Acenti (Ate06-1Lw)
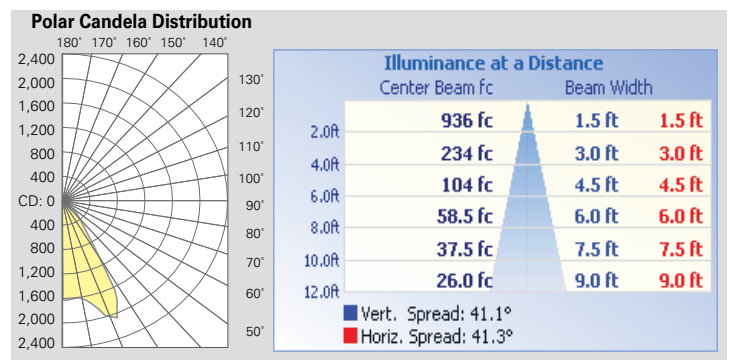   Trimatron #705W
        Decora 0-10V (IP710DL)

    Consult factory for additional dimmers

Lutron, Nova and Diva are trademarks of Lutron Electronics Co., Inc. Leviton, Acenti, Trimatron and Decora are trademarks of Leviton Manufacturing Co., Inc.

Photometrics (Contact factory for IES file)

Polar Candela Distribution

Illuminance at a Distance	Center Beam fc	Beam Width	
2.0ft	835 fc	1.0 ft	1.1 ft
4.0ft	209 fc	2.0 ft	2.1 ft
6.0ft	92.8 fc	3.1 ft	3.2 ft
8.0ft	52.2 fc	4.1 ft	4.3 ft
10.0ft	33.4 fc	5.1 ft	5.3 ft
12.0ft	23.2 fc	6.1 ft	6.4 ft

Vert. Spread: 28.5°
Horiz. Spread: 29.8°

LAD4R-12-LED

Polar Candela Distribution

Illuminance at a Distance	Center Beam fc	Beam Width	
2.0ft	936 fc	1.5 ft	1.5 ft
4.0ft	234 fc	3.0 ft	3.0 ft
6.0ft	104 fc	4.5 ft	4.5 ft
8.0ft	58.5 fc	6.0 ft	6.0 ft
10.0ft	37.5 fc	7.5 ft	7.5 ft
12.0ft	26.0 fc	9.0 ft	9.0 ft

Vert. Spread: 41.1°
Horiz. Spread: 41.3°

LAD4R-19-LED

ROUND

Open Reflector **(TR6R)**

Wall Wash w/ Kick-off Plate **(TR6WW)**

Baffled lens w/ Reflector **(TR6BL)**
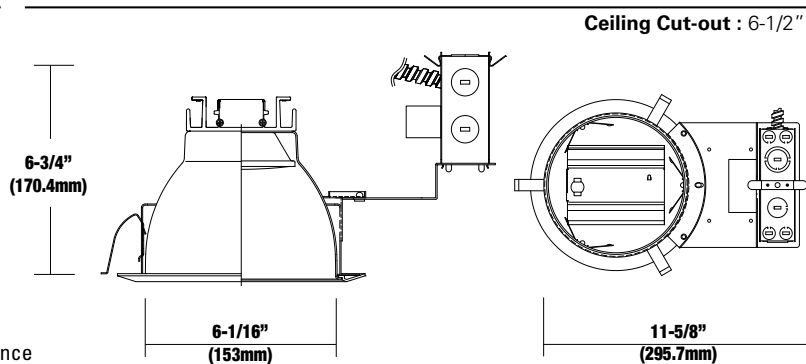
Reflector w/ Frosted Floating Lens **(TR6RFL)**

Reflector w/ Regressed Lens **(TR6RL)**

NOTE: All trims are damp location rated.
Regressed lens trims are wet location listed.

Baffle w/ Reflector **(TR6B)**

REMODEL FRAME-IN KIT

LAD6R DESCRIPTION

6" Remodeling frame-in kits (combined with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. High-efficacy LED with 0-10V dimmable driver and special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)			
Input Voltage	120-277V AC			
Light Engine	13	20	29	41
Wattage	14W	23W	30W	45W
Lumen	1321	2052	2934	4103
Efficacy LPW	95	90	90	97
Beam Angle°	48°	52°	52°	52°
Color	2700K, 3000K, 3500K, 4000K			
CRI	80 (standard), 90 (optional)			
Dimming	0-10V Standard, Triac			
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance			

Ceiling Cut-out : 6-1/2"

6-3/4" (170.4mm)

6-1/16" (153mm)

11-5/8" (295.7mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options
LAD6R - 6" Architectural Downlight	13 20 29 41	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	13 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	20,29,41 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR6R - Open TR6B - Baffle TR6BL - Baffle Lens TR6RL - Regressed Lens TR6RFL - Frosted Floating Lens TR6RWW - Wall Wash	(Self-Flanged) SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3,4] SF CH - Champagne[3] SF PW - Pewter[3] (Flangeless - Requires Trim Ring) HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR6B & TR6BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LAD6R		LED								

Example: LAD6R - 41 - LED - 30 - 52 - UE - TR6R - SF - HAZ - EM

1- All trims are damp location rated.   Regressed lens trims are wet location listed.   3 - Self-Flanged reflectors available with open trims only

TITLE 24 COMPLIANT · **ETL** Intertek · **ENERGY STAR** · **Dimmable**

LAD6R Features & Benefits

LED Module & Trim
• Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
• Module construction includes LED, heat sink and lens.
• Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors provided with black and white milled groove baffle collar.
• Uniform color temperature within 3 SDCM.

Junction Box
• Listed for through branch circuit wiring. (Max.8) No 12 AWG 90 branch circuit conductors. (4 in, 4 out)
• (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
• Ground wire provided on J-box.

Remodel Clips
• 3 remodel clips secure housing and accommodates 1/2″ and 5/8″ ceiling materials.

Warranty
• LSI LED Fixtures carry a limited 5-year warranty.

Listings
• cETLus Listed   • State of California Title 24
• ENERGY STAR® Certified

LED Power Supply Driver
• 120-277V input high efficacy drivers
• Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
• Triac dimming only at 120 Vac
• Deep dimming from 100% down to 1%
• Power factor >.90, THD <20% with integral thermal protection.
• Emergency battery back-up: In-mounted to fixture or remote adjacent to luminaire (consult factory for exact application).
• Driver mounts externally to the module, allowing future replacement, if needed.

Quick-connect Case
In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.
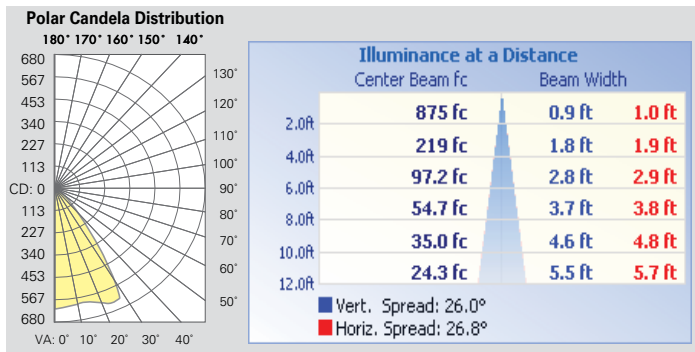
Approved Dimmers
• Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

  Nova 0-10V (NTFTV)
  Diva 0-10V (DVTV)

• Leviton: Acenti (Ate06-1Lw)
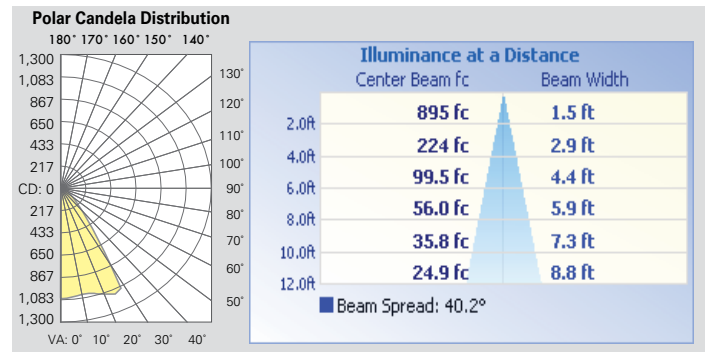 Trimatron #705W
  Decora 0-10V (IP710DL)

  Consult factory for additional dimmers

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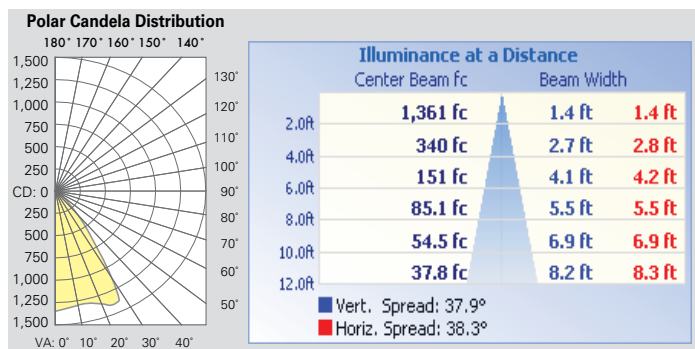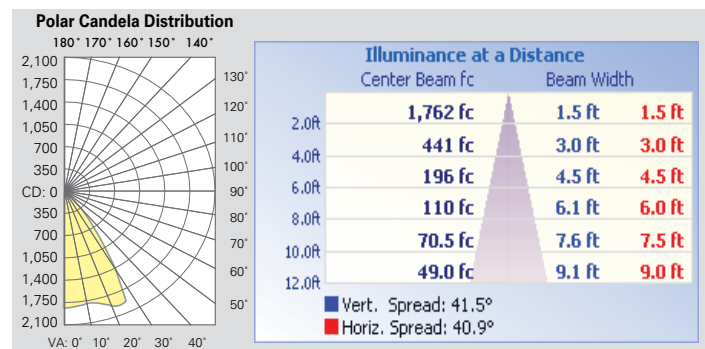
Photometrics (Contact factory for IES file)

Polar Candela Distribution — LAD6-13-LED

Illuminance at a Distance	Center Beam fc	Beam Width	
2.0ft	875 fc	0.9 ft	1.0 ft
4.0ft	219 fc	1.8 ft	1.9 ft
6.0ft	97.2 fc	2.8 ft	2.9 ft
8.0ft	54.7 fc	3.7 ft	3.8 ft
10.0ft	35.0 fc	4.6 ft	4.8 ft
12.0ft	24.3 fc	5.5 ft	5.7 ft

■ Vert. Spread: 26.0°
■ Horiz. Spread: 26.8°

Polar Candela Distribution — LAD6-20-LED

Illuminance at a Distance	Center Beam fc	Beam Width	
2.0ft	895 fc	1.5 ft	
4.0ft	224 fc	2.9 ft	
6.0ft	99.5 fc	4.4 ft	
8.0ft	56.0 fc	5.9 ft	
10.0ft	35.8 fc	7.3 ft	
12.0ft	24.9 fc	8.8 ft	

■ Beam Spread: 40.2°

Polar Candela Distribution — LAD6-29-LED

Illuminance at a Distance	Center Beam fc	Beam Width	
2.0ft	1,361 fc	1.4 ft	1.4 ft
4.0ft	340 fc	2.7 ft	2.8 ft
6.0ft	151 fc	4.1 ft	4.2 ft
8.0ft	85.1 fc	5.5 ft	5.5 ft
10.0ft	54.5 fc	6.9 ft	6.9 ft
12.0ft	37.8 fc	8.2 ft	8.3 ft

■ Vert. Spread: 37.9°
■ Horiz. Spread: 38.3°

Polar Candela Distribution — LAD6-41-LED

Illuminance at a Distance	Center Beam fc	Beam Width	
2.0ft	1,762 fc	1.5 ft	1.5 ft
4.0ft	441 fc	3.0 ft	3.0 ft
6.0ft	196 fc	4.5 ft	4.5 ft
8.0ft	110 fc	6.1 ft	6.0 ft
10.0ft	70.5 fc	7.6 ft	7.5 ft
12.0ft	49.0 fc	9.1 ft	9.0 ft

■ Vert. Spread: 41.5°
■ Horiz. Spread: 40.9°

ROUND

REMODEL FRAME-IN KIT

Project Name _____ Fixture Type _____ Cat# _____

ROUND

REMODEL FRAME-IN KIT

Open Reflector **(TR8R)**

Wall Wash w/ Kick-off Plate **(TR8WW)**

Baffled lens w/ Reflector **(TR8BL)**

Reflector w/ Frosted Floating Lens **(TR8RFL)**
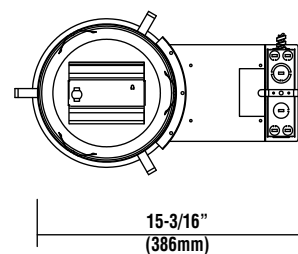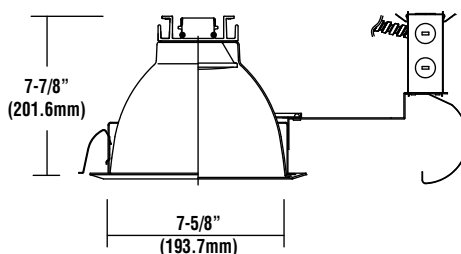
Reflector w/ Regressed Lens **(TR8RL)**

NOTE: All trims are damp location rated.
Regressed lens trims are wet location listed.

Baffle w/ Reflector **(TR8B)**

LAD8R DESCRIPTION

8" Remodeling frame-in kits (combined with LED module and integral reflector) are designed for use in non-insulated ceilings. Insulation material must be kept a minimum of 3" from fixture. High-efficacy LED with 0-10V dimmable driver and special optical diffuser allows high lumen transmission and light uniformity.

LED Quantity	1EA(COB)			
Input Voltage	120-277V AC			
Light Engine	13	20	30	41
Wattage	14W	23W	30W	45W
Lumen	1362	2084	3088	4145
Efficacy LPW	98	91	95	98
Beam Angle°	48°	52°	52°	52°
Color	2700K, 3000K, 3500K, 4000K			
CRI	80 (standard), 90 (optional)			
Dimming	0-10V Standard, Triac			
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance			

Ceiling Cut-out : 8-1/8"

7-7/8" (201.6mm)

7-5/8" (193.7mm)

15-3/16" (386mm)

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim[1]	Reflector Finish	Baffle	Optional Metal Trim Ring Finish	Options
LAD8R - 8" Architectural Downlight	13 20 30 41	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	13 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 62 - 62° Wide Flood	20,29,41 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	TR8R - Open TR8B - Baffle TR8BL - Baffle Lens TR8RL - Regressed Lens TR8RFL - Frosted Floating Lens TR8RWW - Wall Wash	(Self-Flanged) SF HAZ - Semi Diffused / Satin[3] SF SPC - Specular Clear[3,4] SF CH - Champagne[3] SF PW - Pewter[3] (Flangeless - Requires Trim Ring) HAZ - Semi Diffused / Satin SPC - Specular Clear[4] Note: White plastic trim ring supplied standard. Optional metal trim rings available.	BL - Black WH - White NOTE: For use with TR8B & TR8BL only	WH - White SN - Satin Nickel CH - Chrome AN - Antique Nickel AC - Antique Copper MO - Mocha CA - Cappuccino UN - Natural Steel PB - Polished Brass NOTE: Not available with "SF" Option	EM - Emergency Battery 90 - 90 CRI

SELECTION:

| LAD8R | | LED | | | | | | | | | |

Example: LAD8R - 41 - LED - 30- 52 - UE - TR8R - SF - HAZ - EM

1- All trims are damp location rated. Regressed lens trims are wet location listed.   3 - Self Flanged reflectors available with open trims only.

TITLE 24 COMPLIANT · **ETL Intertek** · **ENERGY STAR** · **Dimmable**

LAD8R Features & Benefits

LED Module & Trim
- Aluminum extruded Heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.
- Module construction includes LED, heat sink and lens.
- Heavy gauge aluminum reflector anodized in clear, haze, gold, champagne and pewter color finish. Reflectors provided with black and white milled groove baffle collar.
- Uniform color temperature within 3 SDCM.

Junction Box
- Listed for through-branch circuit wiring. (Max. 8) No 12 AWG 90 branch circuit conductors. (4 in, 4 out)
- (5) 1/2" knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.

Remodel Clips
- 3 remodel clips secure housing and accommodates 1/2" and 5/8" ceiling materials.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed • State of California Title 24
- ENERGY STAR® Certified

LED Power Supply Driver
- 120-277V input high efficacy drivers
- Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
- Triac dimming only at 120 Vac
- Deep dimming from 100% down to 1%
- Driver feature power factor >.90, THD <20% and has integral thermal protection.
- Emergency battery back-up: Available in mounted to fixture or remote adjacent to luminaire (consult with factory for exact application).
- Driver mounts externally to the module, allowing future replacement, if needed.

Quick-connect Case
In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.

Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

  Nova 0-10V (NTFTV)
  Diva 0-10V (DVTV)

- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W
  Decora 0-10V (IP710DL)

  Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

LAD8-13-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0 ft	797 fc	1.0 ft	1.0 ft
4.0 ft	199 fc	2.0 ft	2.0 ft
6.0 ft	88.5 fc	2.9 ft	3.0 ft
8.0 ft	49.8 fc	3.9 ft	4.0 ft
10.0 ft	31.9 fc	4.9 ft	5.0 ft
12.0 ft	22.1 fc	5.9 ft	6.0 ft

Vert. Spread: 27.5°
Horiz. Spread: 27.9°

LAD8-20-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0 ft	890 fc	1.5 ft	1.5 ft
4.0 ft	222 fc	2.9 ft	2.9 ft
6.0 ft	98.9 fc	4.4 ft	4.4 ft
8.0 ft	55.6 fc	5.8 ft	5.9 ft
10.0 ft	35.6 fc	7.3 ft	7.3 ft
12.0 ft	24.7 fc	8.7 ft	8.8 ft

Vert. Spread: 39.9°
Horiz. Spread: 40.3°

LAD8-30-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0 ft	1,309 fc	1.5 ft	1.5 ft
4.0 ft	327 fc	3.0 ft	3.0 ft
6.0 ft	145 fc	4.4 ft	4.4 ft
8.0 ft	81.8 fc	5.9 ft	5.9 ft
10.0 ft	52.3 fc	7.4 ft	7.4 ft
12.0 ft	36.3 fc	8.9 ft	8.9 ft

Vert. Spread: 40.6°
Horiz. Spread: 40.6°

LAD8-41-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0 ft	1,748 fc	1.5 ft	1.5 ft
4.0 ft	437 fc	3.0 ft	3.0 ft
6.0 ft	194 fc	4.6 ft	4.5 ft
8.0 ft	109 fc	6.1 ft	6.0 ft
10.0 ft	69.9 fc	7.6 ft	7.5 ft
12.0 ft	48.5 fc	9.1 ft	9.0 ft

Vert. Spread: 41.7°
Horiz. Spread: 41.3°

Project Name _____ | Fixture Type _____ | Cat# _____

ETL Listed Intertek

Dimmable

SQUARE

Adjustable **(TSQ4AJ)**

Wall Wash **(TSQ4WW)**

Straight Downlight **(TSQ4FX)**

LAD4SQ DESCRIPTION

4" X 4" IC and Non-IC Square Splay Aperture Architectural LED

LED Quantity	1EA (COB)		
Input Voltage	120-277V AC		
Wattage	16W	23W	30W
Lumen	900	1400	1700
Efficacy LPW	56	61	57
Color	2700K - 4000K		
CRI (typical)	80 (standard), 90 (optional)		
Dimming	0-10V Standard, Triac Optional		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

Ceiling Cut-out : 4-3/8" (111mm)SQ   Trimless Ceiling Cut-out : 4-15/16" (125mm)SQ

7-5/8" (193.8mm)

12-1/8" (307.3mm)

7-3/4" (197.5mm)

3-3/8" (85mm)

4-11/16" (119mm)

1/2" (12.7mm)

3-3/8" (85mm)

4-11/16" (119mm)

4" (101.7mm)

1/2" (12.7mm)

119mm (L)
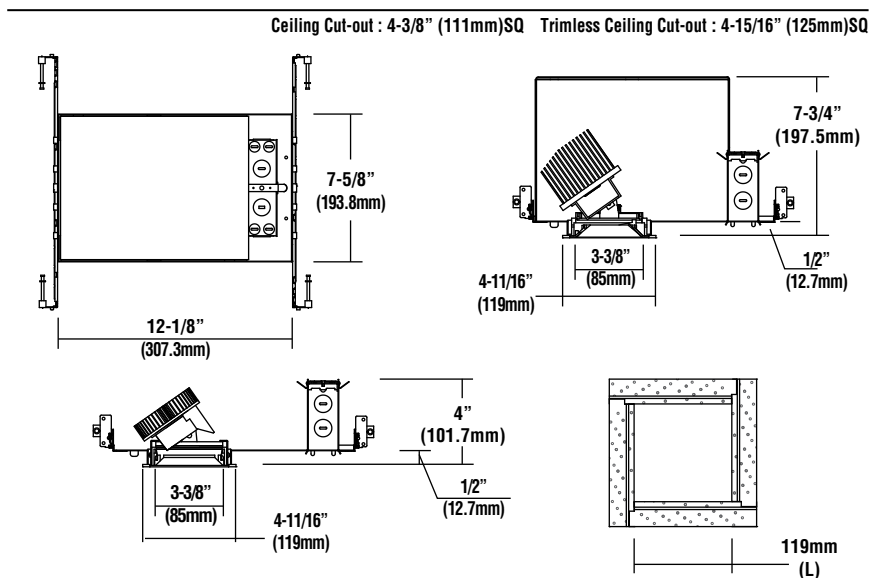
Ordering Information

Luminaire Prefix	Housing	Beam Spread	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector Finish	Options
LAD4SQ - 4" X 4" Square Splay Aperture Architectural LED	TR - Non-IC rated housing with overlapping Trim TRIC - IC rated housing with overlapping Trim	N - Narrow M - Medium W - Wide	09 - 900 14 - 1400 17 -1700	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120V 277 - 277V	TSQ4FX - Straight fixed with soft focus lens TSQ4AJ - Adjustable 0-30° tilt TSQ4SHCL - Straight fixed with clear shower lens TSQ4SHFR - Straight fixed with frosted shower lens TSQ4WW - Wall Wash	WH - White BK - Black CR - Chrome	EM - Emergency Battery (Non-IC housing only) TRD - Triac Dimming 90 - 90 CRI

SELECTION:

LAD4SQ				LED					

Example: LAD4SQ - TR - N - 09 - LED - 27 - 120 - TSQ4FX - WH - EM

Project Name _____ Fixture Type _____ Cat# _____

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Dimmable

LAD4SQ Features & Benefits

- Single wall aluminum housing, adjusts for ceiling up to 1-1/4" thick.
- 120~277V input high efficacy drivers with dimming.
- Hanger bars and mounting channel brackets installed.
- All results are according to IESNA LM-79-2008 : Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. LED chip provided with fixture are in compliance with LM80.
- Cast-aluminum trim frame painted and available overlap or flush mounting using with a square muddy frame.
- Heat sink aluminum cold forged, light weight also high efficacy of heat dissipation.
- Listing - cETLus Listed.

SQUARE

CSA C US

Dimmable

Regressed Lens
(TR5SQRL)

Haze Clear
Reflector
(TR5SQ)

Wall Wash
(TR5SQWW)

Flush Lens**(TR5SQFL)**

LCD5SQ DESCRIPTION

5" X 5" square aperture housing for accent contains a solid state LED panel with aluminum cast heat sink in a concealed reflector for cutoff. The LED driver on junction box can be replaced from below the ceiling. Provides long life with low energy consumption.

LED Quantity	1EA (COB)		
Input Voltage	120-277V AC		
Wattage	14W	26W	34W
Lumen	821	1310	1786
Efficacy LPW	59	50	53
Beam Angle	72°	72°	72°
Color	2700K - 4000K		
CRI	80 (standard), 90 (optional)		
Dimming	0-10V Standard, Triac Optional		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

9-3/8"
(238mm)

5-15/16"
(151mm)

Inner reflector twist locking

9-3/8"
(238mm)

LED DRIVER

14-7/16"
(366mm)
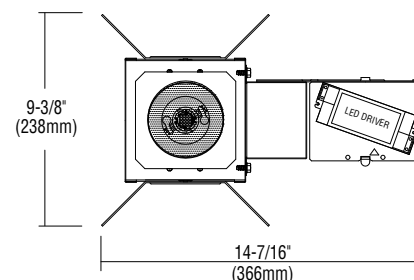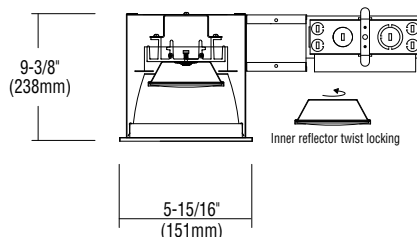
Ceiling Cut-out : 5-5/8" x 5-5/8"

Ordering Information

Luminaire Prefix	Light Engine Lumens	Source	Color Temp.	Voltage	Trim	Reflector FInish	Metal Ring		Options
LCD5SQ - 5" x 5" Square Commercial Downlight	08 - 821 13 - 1310 17 - 1786	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 120V 277 - 277V	TR5SQFL - Flush lens TR5SQRL - Regressed Lens TR5SQ - Open TR5SQWW - Wall Wash	HZ - Haze Clear WH - White CH - Champagne PW - Pewter (TR5SQFL) WH - White BK - Black	WH - white BK - black SN - satin nickel AN - antique nickel AC - antique copper	MO - mocha CA - cappuccino CR - chrome NS - natural steel PB - polished brass	EM - Emergency Battery TRD - Triac Dimming 90 - 90 CRI

SELECTION:

LCD5SQ		LED						

Example: LCD5SQ - 09 - LED - 27 - 120 - TSQ5 - WH - WH - EM

C CSA **US** Dimmable

SQUARE

LCD5SQ Features & Benefits

Junction Box
- Listed for through-branch circuit wiring. (Max.8 No 12 AWG 90°C branch circuit conductors.)
- (5) 1/2″ knockouts with true pry-out slots and (4) knockouts with Romex cable clamp.
- Ground wire provided on J-box.
- Provided listed quick connectors for easy snap-on wires. (Optional)

Mounting Channel Bracket
- Commercial mounting kit provides up to 5" vertical adjustment. Accommodates 1/2" EMT conduit, optional HBC-24 bar hanger or lathing channels for T-bar grid or concealed spline ceiling.

Heat Sink
- Aluminum extruded Heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.

Optics
- Precisely designed Cell-Inner-Reflectors directly attached to individual LED source provides precise beam control and reduces glare.
- Glass Lens: Textured fine surface of tempered glass provides high lumen transmission and diffusion for even illumination.

LED Engine
- COB (Chip on board) LED package.
- Heat sink designed by computer simulation and aluminum board for low heat operation.
- Electrical (No tools required).
- Uniform color temperature to 3SDCM

LED Power Supply Driver
- 120~277V input high efficacy driver with dimming.
- Power factor >.90, THD <20% and has integral thermal protection.
- Driver mounts externally to the module, allowing future replacement, if needed.
- Consult factory for optional Triac dimmable driver.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listings
- cETLus Listed

Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)

- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W

Consult factory for additional dimmers

Lutron, Nova and Diva are trademarks of Lutron Electronics Co., Inc. Leviton, Acenti and Trimatron are trademarks of Leviton Manufacturing Co., Inc.

Photometrics (Contact factory for IES file)

Polar Candela Distribution
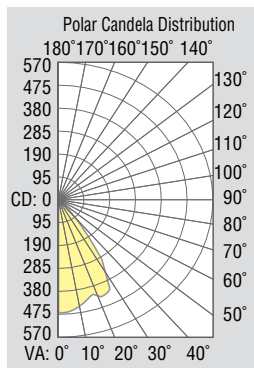
LCD5SQ-LED

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	262.4 fc	2.9 ft
4.0ft	65.6 fc	5.8 ft
6.0ft	29.1 fc	8.7 ft
8.0ft	16.4 fc	11.6 ft
10.0ft	10.5 fc	14.4 ft
12.0ft	7.3 fc	17.3 ft

Beam Spread: 72°

SQUARE

ARCHITECTURAL

Open Straight Downlight (TSQ5)
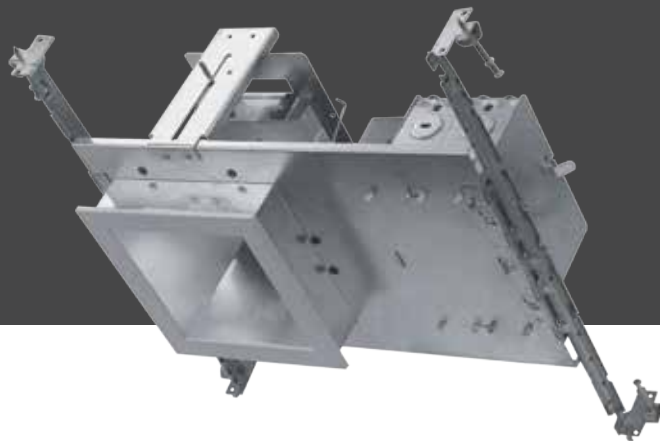
LAD5SQ DESCRIPTION

5" Square Architectural Downlight

LED Quantity	1EA (COB)		
Input Voltage	120-277V AC		
Light Engine	11	17	26
Wattage	14W	23W	30W
Lumens (nominal)	1400	2000	3000
Efficacy LPW	100	87	100
Color	2700K - 4000K		
CRI	80 (standard), 90 (optional)		
Dimming	0-10V or Triac		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

Ceiling Cut-out : 5-1/2" x 5-1/2" (140x140mm)

7-7/8" 200mm

12-7/16" 316mm

5-7/8" 149mm

4-1/2" 115mm

4-1/2" 115mm

5-15/16" 151mm

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim	Reflector Finish	Trim Finish	Options
LAD5SQ - 5" x 5" Square Architectural Downlight	14 20 30	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	**11** 12 - 12º Spot 26 - 26º Narrow Flood 48 - 48º Flood 69 - 69º Wide Flood	**17, 26** 23 - 23º Spot 35 - 35º Narrow Flood 52 - 52º Flood 75 - 75º Wide Flood	UE - Universal Input Voltage (120-277V)	TSQ5 - Open reflector	WH - White HAZ - Semi-diffused/Satin	WH - White BK - Black CR - Chrome	EM - Emergency Battery 90 - 90 CRI

SELECTION:

LAD5SQ		LED							

Example: LAD5SQ - 30 - LED - 27 - 48 - 120 - TSQ5 - HAZ - WH - EM

Dimmable

LAD5SQ Features & Benefits

- 20 gauge CRS black painted 5"X 5" square aperture housing adjusts for ceiling up to 1-1/4" thick.
- 120-277 input high efficiency drivers with capability to dim by;
    1) a TRIAC 120V electronic dimmer switch
    2) 0-10V dimmer switches.
- Semi-matte diffuser lower reflectors under the upper reflector.
- 60˚ cut-off to light source.
- Uniform color temperature to 3SDCM.
- Trims for straight downlight with flood lens.
- Light engine and driver can be replaceable through aperture below ceiling.
- Provided listed Jbox and adjustable height and mounting channel brackets.

Quick-connect Case

In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.

Triac Approved Dimmers
- Lutron: S-603PG, DVELV-303P, CT-103P, SELV-300P, DVCL-153P, DV-600P
    MAELV-600, FAELV-500, TGCL-153P, TG-600P, S-600P, LG-600P
    IPI06-1LZ, 6631-2, 6683-IW, IPE04, 6161, 6633-P, VPE06
- Cooper: SLC03P, DLC03P, DAL06P
- Lightolier: ZP260QEW

0-10V Approved Dimmers

SQUARE

ARCHITECTURAL

SQUARE

ARCHITECTURAL

Open Straight Downlight **(TSQ6)**

LAD6SQ DESCRIPTION

6″ Square Architectural Downlight

LED Quantity	1EA (COB)		
Input Voltage	120-277V AC		
Light Engine	12	17	27
Wattage	14W	23W	30W
Lumens (nominal)	1200	1800	2700
Efficacy LPW	85	78	90
Color	2700K - 4000K		
CRI	80 (standard), 90 (optional)		
Dimming	0-10V Standard, Triac Optional		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

Ceiling Cut-out : 7" x 7" (178x178mm)

7-7/8" 200mm

13-3/16" 335mm

6-13/16" 173mm

5-3/8" 136mm

6" 152mm

7-7/16" 188mm

Ordering Information

Luminaire Prefix	Light Engine Lumens (nom.)	Source	Color Temp.	Beam Angle		Voltage	Trim	Reflector Finish	Trim Finish	Options
LAD6SQ - 6" x 6" Square Architectural Downlight	12 18 27	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	11 12 - 12º Spot 26 - 26º Narrow Flood 48 - 48º Flood 69 - 69º Wide Flood	20,29,41 23 - 23º Spot 35 - 35º Narrow Flood 52 - 52º Flood 75 - 75º Wide Flood	120 - 120V 277 - 277V	TSQ6 - Open reflector	WH - White HAZ - Semi-diffused/Satin	WH - White BK - Black	EM - Emergency Battery TRD - Triac Dimming 90 - 90 CRI

SELECTION:

LAD6SQ			LED							

Example: LAD6SQ - 27 - LED - 27 - 120 - TSQ6 - HAZ - WH - EM

Dimmable

LAD6SQ Features & Benefits

- 20 gauge CRS black painted 6"X 6" square aperture housing adjusts for ceiling up to 1-1/4" thick.
- 120-277 input high efficiency drivers with capability to dim by;
    1) a TRIAC 120V electronic dimmer switch
    2) 0-10V dimmer switches.
- Semi-matte diffuse lower reflectors under the upper reflector.
- 60˚ cut-off to light source.
- Uniform color temperature to 3SDCM.
- Trims for straight downlight with flood lens.
- Light engine and driver can be replaced through aperture below ceiling.
- Provided listed J-box and adjustable height and mounting channel brackets.

Quick-connect Case

In anticipation of rapidly-changing LED technological advancements, this product includes a special light engine quick-disconnect feature. This enables easy upgrades, as well as changes to the heatsink, chip and driver without any tooling.

Triac Approved Dimmers

- Lutron: S-603PG, DVELV-303P, CT-103P, SELV-300P, DVCL-153P, DV-600P
    MAELV-600, FAELV-500, TGCL-153P, TG-600P, S-600P, LG-600P
    IPI06-1LZ, 6631-2, 6683-IW, IPE04, 6161, 6633-P, VPE06
- Cooper: SLC03P, DLC03P, DAL06P
- Lightolier: ZP260QEW

Cylinders

LSI's Origin™ brand cylinder luminaires are great for highlighting sidewalks and buildings. They are available in a small, attractive envelope that does not distract from the building.

Notes

_____
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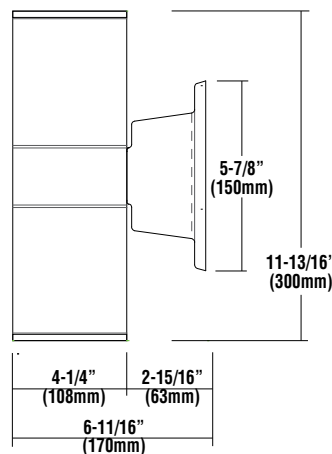**CSA** C US **Dimmable** **IP65**
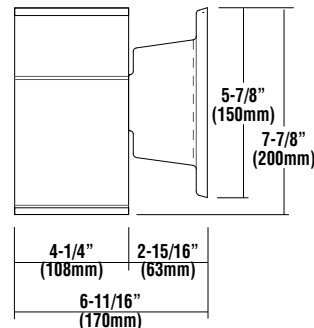
CYLINDERS

Up/Downlight

Downlight

WCYL3 DESCRIPTION

3″ cylinder is rated for wet location (IP65) wall mounting with with either down light or up and down light. Low heat,DOB technology.
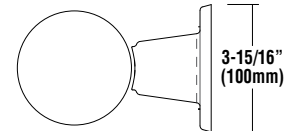
LED Quantity	1EA (DOB)	
Input Voltage	120V AC	
Wattage	15W	20W
Lumen	1145	1375
Beam Angle°	40°, 62°	
Color	2700K - 5000K	
CRI	80 (standard), 90 (optional)	
Dimming	Triac	
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance	
IP Rating	IP65 (Wet location)	
Operating Temperature	(-30°C - +40°C) (-22°F - 104°F)	

5-7/8" (150mm)
11-13/16" (300mm)
3-9/16" (90mm)
2-7/16" (62.5mm)
6" (152.5mm)

Up/Downlight

5-7/8" (150mm)
3-9/16" (90mm)
2-7/16" (62.5mm)
6" (152.5mm)

Downlight

3-15/16" (100mm)
3-9/16" (90mm)
2-7/16" (62.5mm)
6" (152.5mm)
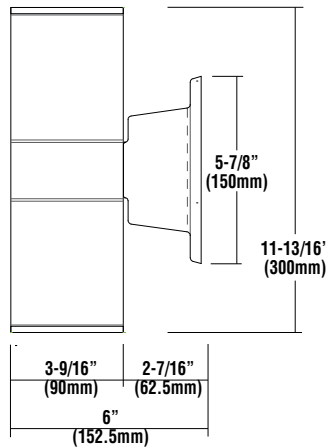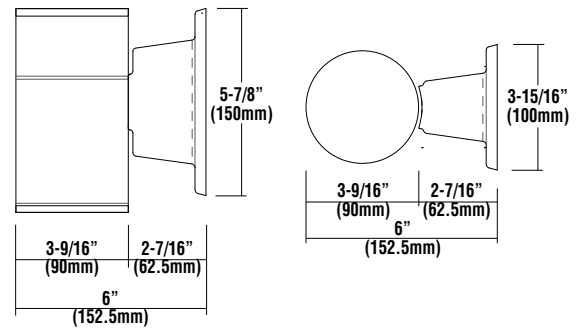
Ordering Information

Luminaire	Distribution	Beam Spread	Lumens	Source	Color Temp	Housing Finish	Reflector Finish	Options
WCYL3 - 3" Wall Mount Cylinder Light	D - Down Only UD - Up/Down	M - Medium 40° W - Wide 62°	11 13	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K	WH - White BK - Black SLV - Silver	WH - White Painted HAZ - Semi-Diffused/Satin	90 - 90 CRI

SELECTION:

WCYL3			LED					

Example: WCYL3 - D - M - 13 - LED - 40 - BK - - HAZ

CSA C US **Dimmable** **IP65**

CYLINDERS

WCYL3 Features & Benefits

Housing

- Main body by weather proof aluminum powder coated white, black and silver finish for outdoor/indoor applications
- 15W, 20W 120V DOB modules with integrated circuit on board with customized chips (No driver needed)
- 80, 90 CRI, 2700K, 3000K, 3500K, 4000K and 5000K
- Uniform color temperature to 3SDCM.
- 22˚, 43˚ beam spread.
- Wet location (IP65 Rated).

Mounting

- Mount completely assembled fixture on the wall directly to surface using anchors or screws. (not supplied in the package)

Warranty

- LSI LED Fixtures carry a limited 5-year warranty.

Listing

- cCSA-us certificated

Approved Dimmers

- Lutron: Skylark S-600
  - : MRF2-6DN-120
  - : MACL-153M
  - : DVLV-600P
  - : SELV-300P
  - : CTCL-153P
  - : DVELV-303P
  - : DVCL-153P
- Leviton: D600R, Acenti: Ate06, Trimatron #705W
- Cooper Devine incandescent dimmer 600W
- Pass & Seymour Harmony incandescent 600W

Consult factory for additional dimmers

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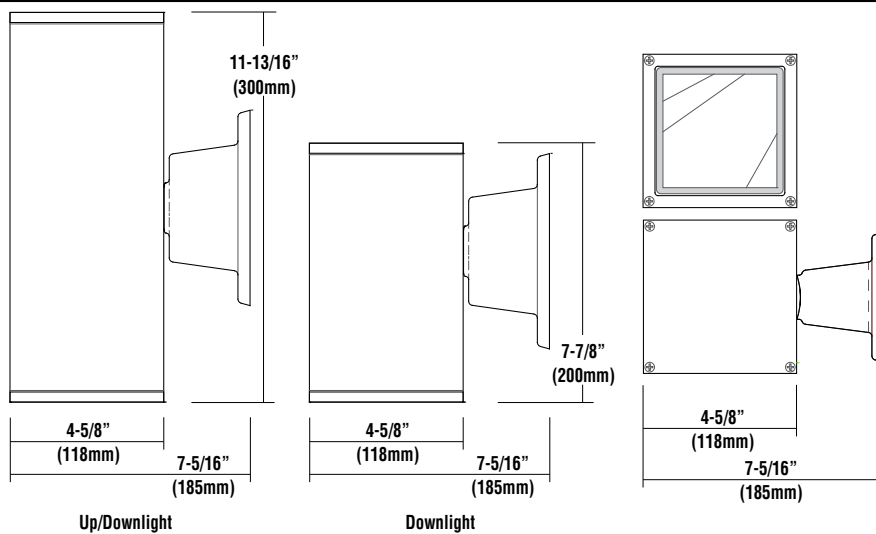---

CSA C US **Dimmable** **IP65**

CYLINDERS

Up/Downlight

Downlight

WCYL4 DESCRIPTION

4" cylinder rated is for wet location (IP65) wall mounting with down light or up and down light. Low heat, long life DOB technology

Input Voltage	120V AC		
Wattage	15W	20W	30W
Lumen	1190	1410	2110
Beam Angle°	22°, 43°		
Color	2700K - 5000K		
CRI	80 (standard), 90 (optional)		
Dimming	Triac		
Lamp Life	Rated for 50,000 hrs at 70% lumen		
IP Rating	IP65 (Wet location)		
Operating Temperature	(-30°C - +40°C) (-22°F - 104°F)		

5-7/8" (150mm)

11-13/16" (300mm)

4-1/4" (108mm) 2-15/16" (63mm)

6-11/16" (170mm)

Up/Downlight

5-7/8" (150mm)

7-7/8" (200mm)

4-1/4" (108mm) 2-15/16" (63mm)

6-11/16" (170mm)

Downlight

3-15/16" (100mm)

Ordering Information

Luminaire	Distribution	Beam Spread	Lumens	Source	Color Temp	Housing Finish	Reflector Finish	Options
WCYL4- 4" Wall Mount Cylinder Light	D - Down Only UD - Up/Down	M - Medium 22° W - Wide 43°	11 14 21	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K	WH - White BK - Black SLV - Silver	WH - White Painted HAZ - Semi-Diffused/ Satin	90 - 90 CRI

SELECTION:

WCYL4				LED				

Example: WCYL4 - D - M - 21 - LED - 27 - WH - WH

IP65

Dimmable

WCYL4 Features & Benefits

Housing

- Main body by weather proof aluminum powder coated white, black and silver finish for outdoor/indoor applications.

- 15W, 20W, 30W 120V DOB modules with integrated circuit on board with customized chips (No driver needed).

- Uniform color temperature to 3SDCM.

- 22°, 43° beam spread.

- Wet location (IP65 Rated).

Mounting

- Mount completely assembled fixture on the wall directly to surface using anchors or screws. (fasteners not included)

Warranty

- LSI LED Fixtures carry a limited 5-year warranty.

Listing

- cCSA-us certified

Approved Dimmers

- Lutron: Skylark S-600
  - : MRF2-6DN-120
  - : MACL-153M
  - : DVLV-600P
  - : SELV-300P
  - : CTCL-153P
  - : DVELV-303P
  - : DVCL-153P
- Leviton: D600R, Acenti: Ate06, Trimatron #705W
- Cooper Devine incandescent dimmer 600W
- Pass & Seymour Harmony incandescent 600W

Consult factory for additional dimmers

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CSA C US Dimmable **IP65**

CYLINDERS

Up/Downlight

Downlight

WCYL4SQ DESCRIPTION

4" cylinder is rated for wet location (IP65) wall mounting with either down light or up down down light. Low heat DOB technology.

Input Voltage	120V AC		
Wattage	15W	20W	30W
Lumen	1190	1410	2110
Beam Angle°	22°, 43°		
Color	2700K - 5000K		
CRI	80 (standard), 90 (optional)		
Dimming	Triac		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		
IP Rating	IP65 (Wet location)		
Operating Temperature	(-30°C - +40°C) (-22°F - 104°F)		

11-13/16" (300mm)

7-7/8" (200mm)

4-5/8" (118mm) **7-5/16" (185mm)**

Up/Downlight

4-5/8" (118mm) **7-5/16" (185mm)**

Downlight

4-5/8" (118mm) **7-5/16" (185mm)**

Ordering Information

Luminaire	Distribution	Beam Spread	Lumens	Source	Color Temp	Housing Finish	Reflector Finish	Options
WCYL4SQ- 4" Square Wall Mount Cylinder Light	D - Down Only UD - Up/Down	N - Narrow 18˚ M - Medium 26˚ W - Wide 36˚	11 14 21	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K	WH - White BK - Black SLV - Silver	WH - White Painted HAZ - Semi-Diffused/ Satin	90 - 90 CRI

SELECTION:

| WCYL4SQ | | | | LED | | | | |

Example: WCYL4SQ - D - N - 21 - LED - 27 - WH - WH

Project Name _____ Fixture Type _____ Cat# _____

CYLINDERS

WCYL4SQ Features & Benefits

Housing

- Main body by weather proof aluminum powder coated white, black and silver finish for outdoor/indoor applications.
- 15W, 20W, 30W 120V DOB modules with integrated circuit on board with customized chips (No driver needed).
- Uniform color temperature within 3 SDCM.
- 22°, 43° beam spread
- Wet location (IP65 Rated)

Mounting

- Mount completely assembled fixture on the wall directly to surface using anchors or screws. (fasteners not included)

Warranty

- LSI LED Fixtures carry a limited 5-year warranty.

Listing

- cCSA-us certificated

Approved Dimmers

- Lutron: Skylark S-600
  - : MRF2-6DN-120
  - : MACL-153M
  - : DVLV-600P
  - : SELV-300P
  - : CTCL-153P
  - : DVELV-303P
  - : DVCL-153P
- Leviton: D600R, Acenti: Ate06, Trimatron #705W
- Cooper Devine incandescent dimmer 600W
- Pass & Seymour Harmony incandescent 600W

Consult factory for additional dimmers

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CYLINDERS

ETL Intertek c US

Dimmable

Specular Open Reflector

CYL6 DESCRIPTION

6″ aperture cylinder light includes high efficacy LED with integral driver. The optical diffusion produces high lumen transmission and even illumination. Designed for long life operation.

LED Quantity	1EA (COB)		
Input Voltage	120V-277V AC		
Light Engine	13	20	29
Wattage	14W	26W	34W
Lumen	1321	2052	2934
Efficacy (LPW)	95	90	90
Beam Angle°	48°	52°	52°
Color	2700K-5000K		
CRI	80 (standard), 90 (optional)		
Dimming	0-10V Triac		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

Ceiling Mount

10-15/16" (278.4mm)

7-7/8" (199.4mm)

Wall Mount

4-1/4" (107.7mm)

Ordering Information

| Luminaire Prefix	Mounting	Lumens (nom.)	Source	Color Temp	Beam Angle		Voltage	Housing Finish	Reflector Finish	Baffle Option	Options	Pendant Stem[1]
CYL6 - 6" Cylinder Light	S - Surface P - Pendant W - Wall	13 20 29	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K	**13** 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 74 - 74° Wide Flood	**20, 29** 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	WH - White BK - Black BZ - Bronze SLV - Silver	HAZ - Semi-diffused/Satin	BB - Black Baffle Collar WB - White Baffle Collar	90 - 90 CRI	12 - 12 inches 18 - 18 inches 24 - 24 inches 36 - 36 inches 48 - 48 inches (For Pendant Mount Only) SS-0 - Fixed canopy SWS-0 - 45 Swivel canopy

1 - Stems and canopies must be ordered separately.

SELECTION:

CYL6			LED			UE					

Example: CYL6 - S - 13 - LED - 40 - 22 - UE - BK - HAZ

IP65

Dimmable

CYL6 Features & Benefits

LED Module
- Durable aluminium extrusion heat sink integrated with COB (chip on board).
- Inner reflector provides more light and beam distribution.
- Uniform color temperature to 3SDCM.

Reflector
- Anodized haze clear, gold, champange, pewter color finished full reflectors. Also available: anodized reflectors with black.

Housing
- Round seamless .060 thick spun aluminum, housing available in semi-matte white, black or silver finish.

Heat Sink
- Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.

LED Power Supply Driver
- 120-277V input high efficacy driver with dimming
- Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
- TRIAC dimming only at 120 Vac.
- Deep dimming from 100% down to 1%
- Power factor >.90, THD <20% has integral thermal protection.
- Driver mounts externally to the module, allowing future replacement, if needed.

Wall Bracket
- Aluminum casted bracket secured to housing cross-bar by set screws.

Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listing
- cETLus

Approved Dimmers
- Lutron: NovaT(Ntelv300&600)
  Diva(Dvelv-300P&303P)
- Leviton: Acenti (Ate06-1Lw)
  Trimatron #705W

Consult factory for additional dimmers

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Photometrics (Contact factory for IES file)

Polar Candela Distribution
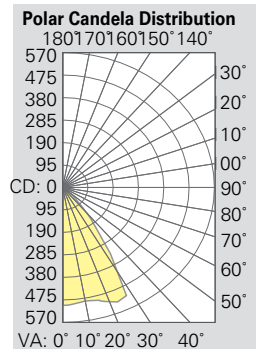
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	138.2 fc	3.0 ft
4.0ft	34.6 fc	6.0 ft
6.0ft	15.4 fc	9.0 ft
8.0ft	8.6 fc	12.0 ft
10.0ft	5.5 fc	15.0 ft
12.0ft	3.8 fc	18.0 ft
Beam Spread: 73.6°		

CYL6 -14 - LED

Polar Candela Distribution
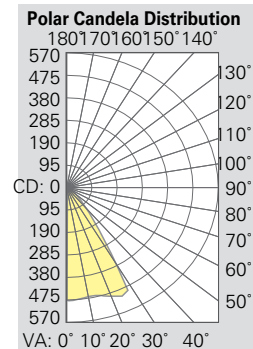
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	244.2 fc	3.0 ft
4.0ft	61.0 fc	6.1 ft
6.0ft	27.1 fc	9.1 ft
8.0ft	15.3 fc	12.2 ft
10.0ft	9.8 fc	15.2 ft
12.0ft	6.8 fc	18.2 ft
Beam Spread: 74.5°		

CYL6 - 26 - LED

Polar Candela Distribution
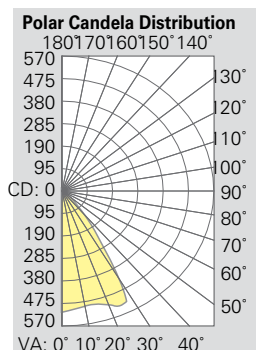
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	316.1 fc	2.4 ft
4.0ft	79.0 fc	4.9 ft
6.0ft	35.1 fc	7.3 ft
8.0ft	19.8 fc	9.8 ft
10.0ft	12.6 fc	12.2 ft
12.0ft	8.8 fc	14.7 ft
Beam Spread: 63°		

CYLINDERS

ETL Intertek
Dimmable

Specular Open Reflector

CYL8 DESCRIPTION

8" aperture cylinder light includes high efficacy LED with integral driver. The optical diffusion produces high lumen transmission and even illumination. Designed for long life operation.

LED Quantity	1EA (COB)		
Input Voltage	120V-277V AC		
Light Engine	13	20	30
Wattage	14W	26W	34W
Lumen	1362	2084	3088
Efficacy	98	91	95
Beam Angle°	48°	52°	52°
Color	3000K, 5000K		
CRI	80 (standard), 90 (optional)		
Dimming	0-10V Triac		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

11-9/16" (293mm)

8-7/8" (225mm)
Ceiling Mount

4-1/4" (107.7mm)
Wall Mount
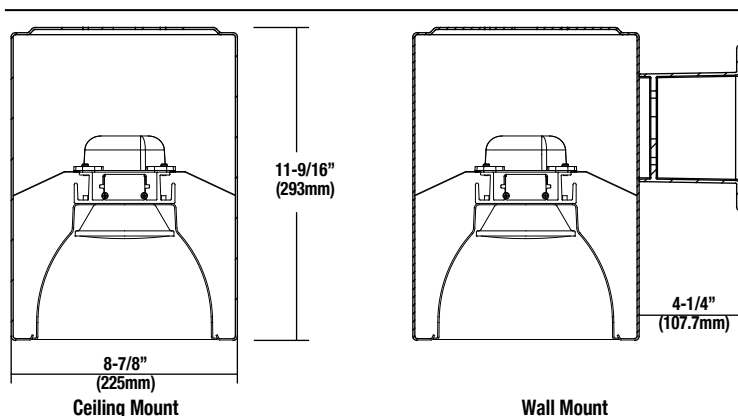
Ordering Information

Luminaire Prefix	Mounting	Lumens (nom.)	Source	Color Temp	Beam Angle		Voltage	Housing Finish	Reflector Finish	Baffle Option	Options	Pendant Stem Length[1]
CYL8 - 8" Cylinder Light	S - Surface P - Pendant W - Wall	13 20 30	LED	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K	**13** 22 - 22° Spot 26 - 26° Narrow Flood 48 - 48° Flood 74 - 74° Wide Flood	**20, 30** 23 - 23° Spot 35 - 35° Narrow Flood 52 - 52° Flood 75 - 75° Wide Flood	UE - Universal Input Voltage (120-277V)	WH - White BK - Black BZ - Bronze SLV - Silver	HAZ - Semi-diffused/ Satin	BB - Black Baffle Collar WB - White Baffle Collar	90 - 90 CRI	12 - 12 inches 18 - 18 inches 24 - 24 inches 36 - 36 inches 48 - 48 inches (For Pendant Mount Only) SS-0 - Fixed canopy SWS-0 - 45 Swivel canopy

1 - Stems and canopies must be ordered separately.

SELECTION:

CYL8			LED			UE					

Example: CYL8 - S - 13 - LED - 40 - 23 - UE - BK - HAZ

Dimmable

ETL Intertek

CYL8 Features & Benefits

LED Module
• Durable aluminum extrusion heat sink intergrated with COB (chip on board).
• Inner reflector provide more light and beam distribution.
• Uniform color temperature to 3SDCM.

Reflector
• Anodized haze clear, gold, champange, pewter color finished full reflectors. Also available anodized reflectors with black.

Housing
• Round seamless .060 thick spun aluminum, housing available in semi-matte white, black or silver finish.

Heat Sink
• Aluminum extruded heat sink facilitates heat dissipation for maintaining constant light output, color and life of solid state components.

LED Power Supply Driver
• 120-277V input high efficacy driver with dimming
• Compatible with Triac (forward-phase or leading edge) / ELV (reverse-phase or trailing edge) and 0-10V dimmers
• TRIAC dimming only at 120 Vac.
• Deep dimming from 100% down to 1%
• Power factor >.90, THD <20% and has integral thermal protection.
• Driver mounts externally to the module, allowing future replacement, if needed.

Wall Bracket
• Aluminum casted bracket secured to housing cross-bar by set screws.

Warranty
• LSI LED Fixtures carry a limited 5-year warranty.

Listing
• cETLus

Photometrics (Contact factory for IES file)

Polar Candela Distribution
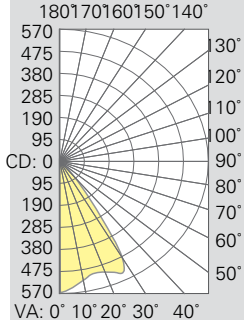
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	163.9 fc	3.1 ft
4.0ft	41.0 fc	6.3 ft
6.0ft	18.2 fc	9.4 ft
8.0ft	10.2 fc	12.5 ft
10.0ft	6.6 fc	15.7 ft
12.0ft	4.6 fc	18.8 ft

Beam Spread: 76.2°

CYL8 - 14 - LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	248.0 fc	3.1 ft
4.0ft	62.0 fc	6.3 ft
6.0ft	27.6 fc	9.4 ft
8.0ft	15.5 fc	12.5 ft
10.0ft	9.9 fc	15.6 ft
12.0ft	6.9 fc	18.8 ft

Beam Spread: 76.0°

CYL8 - 26 - LED

Polar Candela Distribution
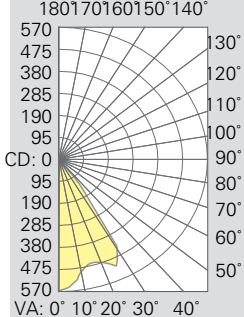
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	348.8 fc	3.2 ft
4.0ft	87.2 fc	6.3 ft
6.0ft	38.8 fc	9.5 ft
8.0ft	21.8 fc	12.7 ft
10.0ft	14.0 fc	15.8 ft
12.0ft	9.7 fc	19.0 ft

Beam Spread: 38.9°

Project Name _____ Fixture Type _____ Cat# _____

Multiple Cluster

Our Origin™ flangeless trim multiple cluster fixture option makes the fixture look as if it's a part of the ceiling. Adjustable heads allows you to direct light where you need it most. Multiple color temperatures are available to fit many applications.
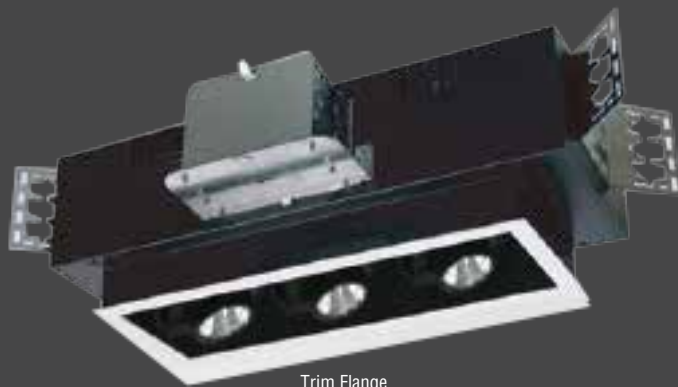
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CSA C US · Dimmable

MULTIPLE CLUSTER

Trim Flange

Trimless

MCAL DESCRIPTION

The Multiple Cluster LED Recessed Dowlight is designed with higher advanced LED technology. Offered in new construction with 1 to 4 lamp version. Equivalent to PAR20 / MR16 size housing.

LED Quantity	1EA (COB)		
Input Voltage	120-277V AC		
Wattage	15W	20W	30W
Lumen	1067	1997	2755
Efficacy LPW	71	88.4	79.2
Beam Angle	28°	28°	28°
Color	3000K, 3500k, 4000K		
CRI	80 (standard), 90 (optional)		
Dimming	0-10V Standard, Triac Optional		
Lamp Life	Rated for 50,000 hrs at 70% lumen maintenance		

Trimless

Trim

6-5/8" (168.3mm)
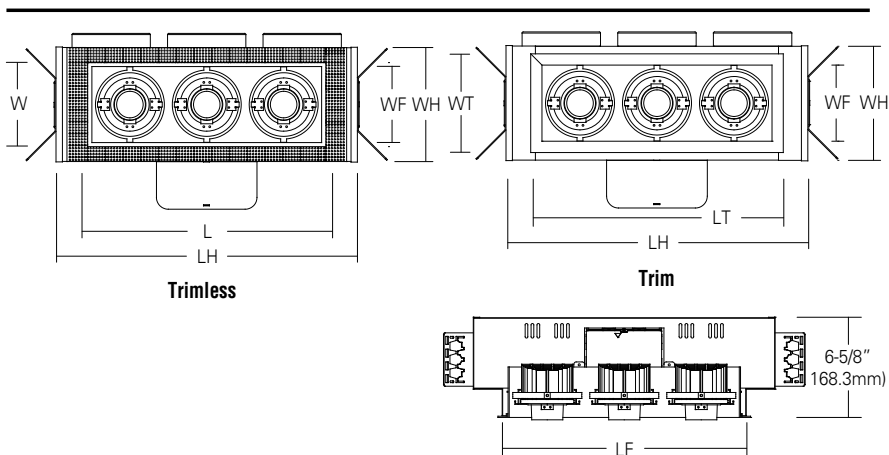
No. of Lamps	Housing WH (length) x LH (Width)	Trimless W (length) x L (Width)	Trim WH (length) x LH (Width)	Frame Opening WF (length) x LF (Width)	Ceiling Cut-out WC (length) x LC (Width)
2	7-9/16" x 13-1/8" (192mm x 332mm)	5-9/16" x 10-13/16" (142mm x 274mm)	6-9/16" x 11-11/16" (167mm x 297mm)	6-1/16" x 11-3/16" (154mm x 284mm)	6-1/4" x 11-3/8" (159mm x 289mm)
3	7-9/16" x 20-1/8" (192mm x 511mm)	5-9/16" x 15-7/8" (142mm x 403mm)	6-9/16" x 16-13/16" (167mm x 527mm)	6-1/16" x 16-5/8" (154mm x 414mm)	6-1/4" x 16-1/2" (159mm x 419mm)
4	7-9/16" x 27-1/8" (192mm x 689mm)	5-9/16" x 21" (142mm x 533mm)	6-9/16" x 21-15/16" (167mm x 544mm)	6-1/16" x 21-7/8" (154mm x 544mm)	6-1/4" x 21-5/8" (159mm x 549mm)

Ordering Information

Luminaire Prefix	No. of Heads	Source	Light Engine Lumens	Color Temp.	Beam Spread	Voltage	Trim	Trim Finish	Options	
MCAL - Multiple Cluster Accent Light	2 3 4	LED	1000 1900 2700	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	S - Spot M - Medium W - Wide	120 - 120V 277 - 277V	TR - Trim Flange LTR - Trimless Flange	WHW - White with white flange BKW - Black with white flange SLVW - Silver with white flange	EM - Emergency Battery TRD - Triac Dimming 90 - 90 CRI SNT - Snoot LVR - Louver	HCL - Hex cell louver LSL - Linear Spread lens UVL - UV lens MWL - Milk White Lens

SELECTION:

MCAL			LED									

Example: MCAL - 2 - LED - 10 - 27 - S - 120 - TR - WHW

C CSA US

Dimmable

MCAL Features & Benefits

Housing
- Non-IC rated new construction housing available from 2 lamp through 4 lamp models.
- Easy accessible from below ceiling.

Junction Box
- Listed, through-branch circuit wiring. (max. 8) No 12AWG 90℃ Branch circuit conductors. (4in, 4out)

Trim
- Die casting powder coated trim and 0.75" overlap trim flange around the ceiling opening.

Trimless
- Adjustable perforated mesh on trimless muddy frames in drywall/plaster ceilings, allowing the ceiling's mudding component to be applied.

LED engine
- 1,2,3 or 4 -15W ,20W and 30W LED heads in 2700K~5000K color temp. Mounted on heat sink and adjustable lampholder up to 45 length x 45 width, and lock in position for the spot light into multiple directions. Color rendering index of 80 with color consistency over time.
- Uniform color temperature to 3 SDCM.

Thermal Protector
- Dedicated Self resetting thermal detector for each 120V and 277V option on J-box deactivates fixture if overheating occurs due to improper lamping or mis-applied insulation.

LED Power Supply Driver
- High efficiency driver more than 90% power factor for universal 120V~277V 60Hz 0~10V dimmable driver. Installed on junction box door for easy access below ceiling. Meets UL class 2, FCC47CFR class B compliant.

Mounting
- Channel bracket kit provides 5" vertical adjustment accommodates 1/2" EMT conduit, optional HB-24 or HBC-24 bar hanger or lathing channels for T-bar grid or concealed with spline ceiling.
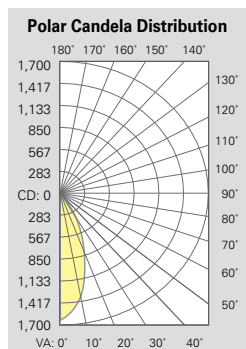
Warranty
- LSI LED Fixtures carry a limited 5-year warranty.

Listing
- cCSA-us Certificated

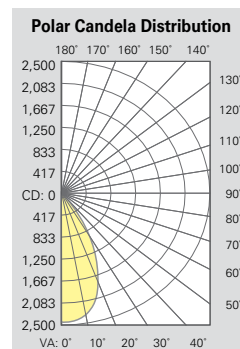## Photometrics (Contact factory for IES file)

Polar Candela Distribution

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	405.6 fc	1.7 ft
4.0ft	101.4 fc	3.4 ft
6.0ft	45.1 fc	5.2 ft
8.0ft	25.4 fc	6.9 ft
10.0ft	16.2 fc	8.6 ft
12.0ft	11.3 fc	10.3 ft

Beam Spread: 60˚

MCAL-15W-Wide-LED

Polar Candela Distribution

Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	614.5 fc	2.0 ft
4.0ft	153.6 fc	4.0 ft
6.0ft	68.3 fc	6.0 ft
8.0ft	38.4 fc	8.0 ft
10.0ft	24.6 fc	10.0 ft
12.0ft	17.1 fc	12.0 ft

Beam Spread: 60˚

MCAL-20W-Wide-LED

Polar Candela Distribution
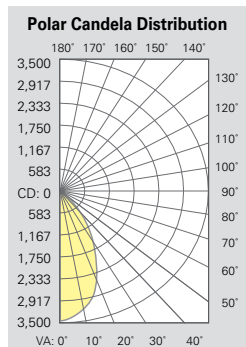
Illuminance at a Distance

	Center Beam FC	Beam Width
2.0ft	865.2 fc	2.0 ft
4.0ft	216.3 fc	4.0 ft
6.0ft	96.1 fc	6.0 ft
8.0ft	54.1 fc	8.0 ft
10.0ft	34.6 fc	10.0 ft
12.0ft	24.0 fc	12.1 ft

Beam Spread: 60˚

MCAL-30W-Wide-LED

LSI Industries Limited Warranty

LIMITED WARRANTY - LED Light Fixtures:

LSI Lighting Solutions warrants cataloged LED Light Fixtures and LED components manufactured by LSI against defects in materials and workmanship for a maximum period of 5 years from date of original shipment from LSI as follow:

• Year 1 - LSI will replace, reimburse or credit 100% of the original purchase price of the defective components or light fixtures. LSI will pay directly or reimburse established labor costs or will utilize our network of certified contractors involved with the replacement or repair of defective LED components or complete light fixtures.

• Year 2-5 - LSI will replace, reimburse or credit 100% of the original purchase price of the defective components or light fixtures. LSI will not reimburse or pay labor costs associated with replacement or repair of defective LED components and light fixtures.

At LSI's option, any product proven to be defective within the warranty periods described above will either be repaired, replaced, or credited. LSI reserves the right to replace defective fixtures or components utilizing the same or functionally similar products that are new, repaired or reconditioned. LSI WILL NOT HONOR ANY WARRANTY CLAIM WITHIN THE 5 YEAR WARRANTY PERIOD WITHOUT PRIOR WRITTEN APPROVAL. Contact our field service department at 1-800-436-7800 (ext. 3300) in order to obtain approval.

This warranty only covers items manufactured by LSI. This includes LED luminaires, Power Supplies and Modules. The above warranty does not include components or fixtures not manufactured by LSI. These items carry the warranty of their respective manufacturers. The paint finish warranty on LED light fixtures is listed below.

LED MODULES - Failure is defined as having 10% or more LEDs not illuminated in a light fixture. LEDs that fail within the manufacturer's warranty period will be exchanged. LSI will not honor a cash reimbursement claim to cover material charges for replacement material outside the first year from date of shipment. No charges for rental of equipment, travel time or labor will be accepted. LED modules are warranted for a period of 5 years; however the Warranty does not cover failures due to abnormal conditions. These abnormal conditions include, but are not limited to, under/over voltage, under/over current, excessive switching and excessive ambient temperatures. LSI reserves the right to determine what conditions are considered abnormal as a result of product failure.

LIMITED WARRANTY - HID and Fluorescent Light Fixtures and Poles:

LSI Lighting Solutions warrants cataloged HID and Fluorescent Light Fixtures and Poles manufactured by LSI against defects in materials and workmanship for a period of 2 years from date of shipment. LSI will replace, reimburse or credit 100% of the original purchase price of the defective HID and Fluorescent light fixtures or poles. At LSI's option, any product proven to be defective within the 2 year warranty period will either be repaired or replaced utilizing the same or functionally similar product that is new, repaired or reconditioned. Replacement part warranty starts from the original order ship date. LSI will not reimburse or pay labor costs associated with replacing or repairing defective HID or Fluorescent light fixtures or poles.

BALLASTS - Ballasts, capacitors, and ignitors are warranted by the ballast manufacturers. Please check the manufacturer's published warranty for the ballast in question. Ballasts that fail within the manufacturer's warranty period will be exchanged by the local ballast manufacturers' authorized distributor or by LSI, acting as their agent. The ballast manufacturer or its agents will honor a cash reimbursement claim to cover material charges for replacement ballasts, capacitors, or ignitors.

LAMPS - Lamps are not manufactured by LSI and are specifically excluded from this warranty. No claims for replacement of defective lamps or labor associated with such replacement will be accepted. Contact the lamp manufacturer for warranty assistance.

POLES - All LSI poles are guaranteed to meet the EPA requirements listed. LSI is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the poles will be located. EPA ratings are for locations 100 miles away from hurricane ocean lines. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For locations within the Hurricane zone, or areas outside the United States contact LSI for the pole EPA for your location. This warranty does not apply to fatigue damage or failure resulting from induced vibration and/or harmonic vibration caused by the movement of air currents around the product or by any other local condition.

BANNERS, FLAGS, STREAMERS, SIGNS AND OTHER EXTRANEOUS ITEMS ATTACHED TO POLES VOIDS ALL POLE WARRANTIES AND MAY CREATE SEVERELY HAZARDOUS CONDITIONS. LSI accepts no responsibility for harm or damage caused in these situations.

LIMITED WARRANTY - Light Fixture and Pole Paint Finishes

POLE FINISHES - LSI poles feature the Dura Grip® baked-on polyester-powder finishing process. The Pole finish is warranted for 5 years from date of shipment against cracking, peeling, chalking or fading. Dura Grip® Plus coated poles are warranted for a period of 7 years from the date of shipment.

OUTDOOR FIXTURE FINISHES - LSI fixtures feature the Dura Grip® baked-on polyester-powder finishing process. The fixture finish is warranted for a period of 5 years from date of shipment against cracking, peeling, chalking or fading.

INDOOR FIXTURE FINISH - The indoor fixture finish is warranted for normal indoor use for a period of 2 years from date of shipment. COMPOSITE FIXTURES – Composite fixtures are warranted for a period of 5 year from date of shipment against corrosion

CAUSTIC OR CORROSIVE ENVIRONMENTS - Fixtures and Poles manufactured and painted by LSI may be damaged by highly caustic or corrosive environments. Such environments may include, but are not limited to, seashore and marine applications, chemical processing facilities, highly watered or fertilized environments and car washes. While many of LSI's products can be safely applied in these locations, their useful life, including the painted surfaces, may be reduced due to the conditions found in these harsh environments. LSI cannot warrant its products against these severe conditions.

FIXTURE AND POLE PAINT FINISH WARRANTY CLAIMS - If during the warranty period the exterior coating shows signs of failure, the Buyer must notify LSI in writing and furnish proof of purchase within 60 days of such failure or deterioration becoming evident. Components will be repaired or replaced at the discretion of LSI. LSI will, at its option, reimburse the customer for the cost to repair the components or will make replacement components available from LSI's factory. Transportation, removal, and installation costs are not included in the replacement.

TERMS AND CONDITION OF LIMITED WARRANTY:

PROPER INSTALLATION - LSI will warrant Light fixtures, components or poles provided products are properly installed following the directions in the product's installation instructions, in their intended application and used in compliance with all applicable local, state and national safety regulations and codes. LSI will not warrant products damaged due to installer connections and/or assembly errors.

EXCLUDED FROM LSI LIMITED WARRANTY: Both limited warranties only cover items manufactured by LSI. The above limited warranties also do not include equipment and components not manufactured by LSI (See above limited warranties). These items carry the warranty of their respective manufacturers. The Limited Warranty also excludes damage or failure caused by acts of God, falling objects, explosion, fire, misuse or abuse in application (see product spec sheets for application guidelines), or any other such occurrences beyond LSI's control are also not warranted. No charges for rental of equipment, travel time or labor will be accepted.

ELIGIBILITY- The limited warranty may be transferred to subsequent purchasers of the product, provided that the product is resold in new condition and in its original packaging.

MAINTENANCE - Poles and Light Fixtures must be inspected and maintained at least annually. Repair of the finish along with structural and electrical components must be conducted on a regular basis to ensure a safe and attractive product.

PROPER HANDLING AND STORAGE - LSI shall claim the warranty to be null and void if the coating fails due to circumstances beyond its control including damage during shipping, handling, unpacking, or installation; damage caused by moisture or other contaminants entrapped between protective packaging materials and coated surface, thus constituting improper storage, prior to placement in service; damage or failure caused by acts of God, falling objects, external forces, explosion, fire, misuse or abuse in application, or any other such occurrences beyond LSI's control.

RIGHT TO EXAMINE - LSI Industries reserves the right to examine all products and/or any associated component to determine the cause of failure and pattern of usage. LSI may require the material be returned to LSI, as part of the evaluation process. LSI Industries reserves the right to be the sole judge as to whether any items and components are defective and or covered under this warranty.

CHANGES - LSI reserves the right to make modifications or changes to any of its products, pricing, Limited Warranty and Terms and Conditions without prior notice.

This warranty is exclusive in lieu of all other warranties whether written, oral, expressed or implied and shall constitute the sole and exclusive remedy of Buyer and liability of LSI. LSI is not liable nor warrants the installers and their installation LSI's products are not sold as a "consumer product" under 15U.S.C. 2301.

Effective Date: 12/15/2014

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