LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for lower mounting heights. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — The housing is a standard white (black optional) thermoplastic with a compact and low-profile contemporary design. It is 5VA flame rated, impact-resistant, scratch-resistant and corrosion proof. The UV-stable resin resists discoloration from natural and man-made light sources. There is a low-profile, integrated and back-lit test switch with an easily visible multi-color LED status indicator. The back-plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance.

ELM2LF: Fixed lamp head arrangement for ease of installation and maximum path of egress aiming coverage with no aiming required for wall mount applications.

ELM2L: Unique track and swivel arrangement permits full range of direction for lamp head adjustment.

OPTICS — Both the ELM2L and ELM2LF feature two, high performance LEDs with acrylic lens' rated at 1.2 watts each and delivering a total of 220 lumens in a linear pattern (LP220L). The typical life of an LED is 10 years. The LED light sources typically never need to be replaced under normal conditions for normal off applications. CCT: 5000K.

ELECTRICAL — Orderable in multiple voltages (see ordering tree for specific voltages).

Current-limiting charger maximizes battery life and minimizes energy consumption and provides low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

BATTERY: Sealed, maintenance-free nickel-cadmium or Lithium Iron Phosphate.

Lithium Iron Phosphate battery powers both on board LEDs and up to 2.4W additional LED remote lamp heads simultaneously or offers extended run-time up to 3 hours.

Automatic 24-hour recharge after a 90-minute discharge.

Advanced electrical design provides constant light output throughout the entire discharge period.

Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

SELF-DIAGNOSTICS and REMOTE TEST (SDRT and AELR option):
Self-Diagnostics: Continuously monitors AC functionality. Test switch and remote tester (RTKIT accessory) provide manual activation of 30-second diagnostic testing for on-demand visual inspection. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKIT accessory).

AELR option: STAR (Self-testing Automated Reporting) radio transmits monthly and annual test results and diagnostics information for automated reporting requirements.
For more information visit AcuityBrands.com/STAR

INSTALLATION — Wall mount and ceiling mount standard for ELM2L. Wall mount only for ELM2LF. Blind-mate connector ensures easy installation and safe maintenance. 7/8" entrance provision at top of unit for standard 1/2" conduit entry. Tool-less removal of front cover from back-plate for ease of installation and maintenance.

LISTINGS — UL damp location listed standard and wet location listed when used with the WPVS accessory, all at 50-104°F (10-40°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety Code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

Contemporary Commercial LED Emergency Light

STAR SELF-TESTING AUTOMATED REPORTING · QUANTUM®

ELM2L
Aimable Optics

ELM2LF
Fixed Optics

LITHIUM IRON PHOSPHATE
Nickel Cadmium

LED™

MOUNTING AND SPECIFICATIONS

All dimensions are inches (centimeters) unless otherwise indicated.

9.72 [24.69]
4.68 [11.88]
3.10 [7.87]
3.10 [7.87]
9.15 [23.24]
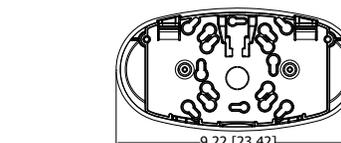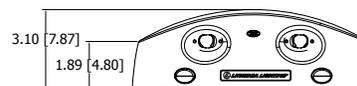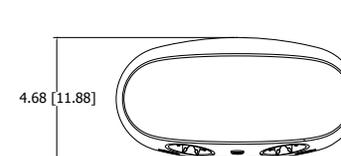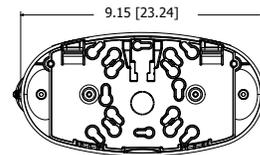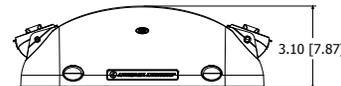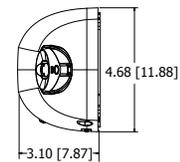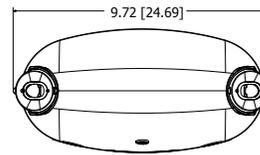
ELM2L Specifications
Length: 9.72 (24.69)
Depth: 3.10 (7.87)
Height: 4.68 (11.88)
Weight: 1.31lbs (0.59kg)

3.10 [7.87]
4.68 [11.88]
3.10 [7.87]
1.89 [4.80]
9.22 [23.42]

ELM2LF Specifications
Length: 9.22 (23.42)
Depth: 3.10 (7.87)
Height: 4.68 (11.88)
Weight: 1.25lbs (0.57kg)

BC · CERTIFIED IN TITLE 20 † · FC · NOM · c(UL)us LISTED · Buy American

ELM2L_ELM2LF Quantum® Contemporary Commercial LED Emergency Light

CS Looking for Contractor Select readily available configurations? Click here to visit Contractor Select™ spec sheet or go to www.contractorselect.com

NICKEL CADMIUM BATTERY MODELS

| ORDERING INFORMATION	For shortest lead times, configure product using **bolded options**.					**Example:** ELM2LF

Series¹	Lamp type	Housing color	Voltage	Battery type	Automatic Testing	Options
ELM2L Aimable optics **ELM2LF** Fixed optics	**(blank)** LP220L 220 lumen, 2.4 watt, linear pattern, two lamps	**(blank)** White B Black	**(blank)** 120/277 VAC/60Hz 120/347 120/347 VAC/60Hz SVOLT 220-240/50-60 Hz UVOLT 120 - 347 VAC, 50/60hz	**(blank)** Nicad	**(blank)** None SDRT Self Diagnostics, Remote Test²	**(blank)** None WPVS Wet protective vandal shield³ BAA Buy America(n) Act Compliant

Notes
1 ELM2L and ELM2LF with Nicad battery type not available with remote capacity.
2 SDRT only available with UVOLT.
3 WPVS breaks out and ships separately and color will match (ex: WPVS SML B). Must be ordered when using for wet location applications. Decreases delivered lumens up to 20%. See spec sheet WPVS for more information.

LITHIUM IRON PHOSPHATE BATTERY MODELS

ORDERING INFORMATION	For shortest lead times, configure product using **bolded options**.					**Example:** ELM2LF UVOLT LTP

| Series¹	Lamp type	Housing color	Voltage	Battery type	Automatic Testing	Options
ELM2L Aimable Optics **ELM2LF** Fixed Optics	**(blank)** LP220L 220 lumen, 2.4 Watt, Linear Pattern, two lamps	**(blank)** White B Black	UVOLT 120 - 347 VAC, 50/60hz	LTP Lithium Iron Phosphate¹	**(blank)** None SDRT Self-diagnostics, remote test¹ AELR Automatic Emergency Lighting Reporting²	**(blank)** None WPVS Wet protective vandal shield³ BAA Buy America(n) Act Compliant

Notes
1 Extended run-time or remote capacity is standard. New ELMRE and ELMRW style remotes are compatible with both SDRT and non-SDRT versions (see page 3).
2 SDRT option required. AELR transmits monthly and annual test results and diagnostics information for automated reporting requirements. Only available with LTP battery type.
3 WPVS breaks out and ships separately and color will match (ex: WPVS SML B). Must be ordered when using for wet location applications. Decreases delivered lumens up to 20%. See spec sheet WPVS for more information.

SPACING GUIDELINES

*Note: To see complete photometric report or download the .ies file for this product, visit Lithonia Lighting ELM2L or ELM2LF home page.
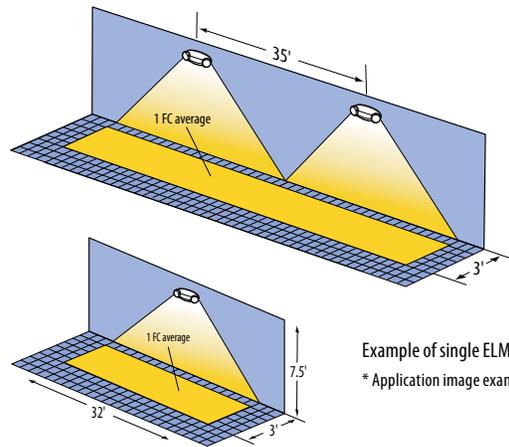
Example of multiple ELM2L luminaires illuminating a 3' path of egress.

Example of single ELM2L illuminating a 3' path of egress.

* Application image examples are using LP220L lamp.

Maximum Spacing Guidelines — ELM2LF					
Mounting Height	**Illumination Level**	**Single Luminaire Coverage**		**Multiple Luminaire Spacing**		**Application Notes**
		3' Path of Egress	**6' Path of Egress**	**3' Path of Egress**	**6' Path of Egress**	
7.5'	1FC Avg¹	32'	20'	35'	28'	100' Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg¹	20'	NA	27'	24'	

Notes:
1. Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

Maximum Spacing Guidelines — ELM2L					
Mounting Height	**Illumination Level**	**Single Luminaire Coverage**		**Multiple Luminaire Spacing**		**Application Notes**
		3' Path of Egress	**6' Path of Egress**	**3' Path of Egress**	**6' Path of Egress**	
7.5'	1FC Avg¹	32'	24'	35'	28'	100' Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg¹	20'	14'	27'	23'	

Notes:
1. Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max/min ratio of 40:1.

ELM2L mounted inside the WPVS (white)

ELM2LF mounted inside WPVS (white)

Other Accessories:	Order as separate catalog number.
WPVS SML W	Wet protective vandal shield (must be used for wet location applications)
WPVS SML B	Wet protective vandal shield, black (must be used for wet location applications)
ELA WG1	Wireguard, 15" W x 13-1/2" H x 6" D (see spec sheet ELA-WG)
RTKIT	Remote test kit, up to 40' away (includes goggles, laser and battery)

LITHONIA LIGHTING®

INDOOR/ DAMP LOCATION REMOTES

ELMRE Compatible Remotes [1,2,3]

LTP Compatible Remote Accessories: *Order as separate catalog number.*
ELMRE LP220L SGL   Single LED Indoor remote head, white, 110 lumens
ELMRE LP220L T   Twin LED Indoor remote heads, white, 110 lumens

Notes
1 Compatible with SDRT and non-SDRT versions.
2 Order the WPVS accessory for wet location listing and vandal protection.
3 See spec sheet ELMRE. Also available in black.

BATTERY CAPACITY AND LOADNG - ELMRE REMOTES

Battery Option	Total Capacity	Maximum # of Remote Lamp heads
LTP	4.8W	2- ELMRE LP220L SGL M12
		1 - ELMRE LP220L T M12

* In addition to the lamp heads on the product.

ELMRE LP220L SGL

ELMRE LP220L T

OUTDOOR / WET LOCATION REMOTES

ELMRW Compatible Remotes

LTP Compatible Remote Accessories: *Order as separate catalog number.*
ELMRW LP220L DDBTXD SGL   Single LED Wet Location remote head, dark bronze, 110 lumens
ELMRW LP220L DDBTXD T   Twin LED Wet Location remote heads, dark bronze, 220 lumens

BATTERY CAPACITY AND LOADING

Battery Option	Total Capacity	Maximum# Remote lamp heads*
LTP	4.8W	2- ELMRW LP220L SGL
		1 - ELMRW LP220L T

* These are in addition to the lamp heads on the product.

ELMRW LP220L DDBTXD SGL

ELMRW LP220L DDBTXD T

SPECIFICATIONS

ELECTRICAL			
Primary Circuit			
Type	Volts	Input amps	Watts
Nicad	120	0.018	1.09
	347	0.012	1.34
Lithium Iron Phosphate	120	0.022	1.35
	347	0.014	1.64

LTP EXTENDED RUN-TIMES

Products	Total Run-time with no remotes
ELM2L LTP	3 hours
ELM2LF LTP	3 hours

BATTERY

UVOLT Nicad (6V), All Other Nicad (3.6V)			
Typical Shelf life[1]	Typical life[1]	Maintenance[2]	Temperature Range[3,4]
3 years	6-8 years	none	50°-104°F (10-40°C)

Lithium Iron Phosphate (9.6V)			
Typical Shelf life[1]	Typical life[1]	Maintenance[2]	Temperature Range[3,4]
1 years	6-8 years	none	50°-104°F (10-40°C)

Notes

1 At 77°F (25°C) ambient temperature, charge/discharge cycles and prolonged full discharge may reduce useful life.

2 All life safety equipment, including emergency lighting for path of egress must be tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required testing could jeopardize the safety of occupants and will void all warranties.

3 Temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.

4 Battery life is negatively impacted by many variables including temperature, charging rates, number of cycles and deep discharges due to long periods of time without AC power.

Ordering Matrix

RAB

Product Family	Size	Voltage	Options
EZPANFA		/D10	

Size		Voltage		Options	
1X4 = 1' x 4'		**/D10** 0-10V Dimming		**Blank**	No Option
2X2 = 2' x 2'				**/LC**	Lightcloud Controller
2X4 = 2' x 4'				**/E2**	Battery Backup

SMKEZPAN	Size
Surface Mount Kit	

1X4 = 1' x 4'	
2X2 = 2' x 2'	
2X4 = 2' x 4'	

PMKEZPAN	Size
Pendant Mount Kit	

1X4 = 1' x 4'	
2X2 = 2' x 2'	
2X4 = 2' x 4'	

Product Family	Size
RMKPANEL	
Recessed Mount Kit	

1X4 = 1' x 4'	
2X2 = 2' x 2'	
2X4 = 2' x 4'	

SLIM12Y

RAB

PROVIDE W/ MOTION SENSOR

Project:		Type:	
Prepared By:		Date:	

12, 18 and 26 Watt SLIM wall packs are ultra efficient and deliver impressive light distribution with a compact low-profile design that's super easy to install as a downlight or uplight.

Color: Bronze   Weight: 4.1 lbs

Driver Info

Type	Constant Current
120V	0.12A
208V	0.08A
240V	0.07A
277V	0.06A
Input Watts	15.9W

LED Info

| Watts	12W
Color Temp	3000K (Warm)
Color Accuracy	71 CRI
L70 Lifespan	100,000 Hours
Lumens	1,915
Efficacy	120.4 lm/W

Technical Specifications

Compliance

UL Listed:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

ADA Compliant:

SLIM™ is ADA Compliant

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000171L

Construction

IP Rating:

Ingress protection rating of IP66 for dust and water

Cold Weather Starting:

The minimum starting temperature is -40°C (-40°F)

Maximum Ambient Temperature:

Suitable for use in up to 40°C (104°F)

Housing:

Precision die-cast aluminum housing

Mounting:

Heavy-duty mounting bracket with hinged housing for easy installation

Recommended Mounting Height:

Up to 8 ft

Lens:

Tempered glass lens

Reflector:

Specular thermoplastic

Gaskets:

High-temperature silicone

Finish:

Formulated for high durability and long-lasting color

RAB

Technical Specifications (continued)

Construction

Green Technology:

Mercury and UV free. RoHS-compliant components.

LED Characteristics

LED:

Multi-chip, long-life LED

Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warrantied to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines for the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Performance

Lifespan:

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Other

Equivalency:

Equivalent to 70W Metal Halide

Patents:

The design of the SLIM™ is protected by patents in U.S. Pat D681,864, and pending patents in Canada, China, Taiwan and Mexico.

HID Replacement Range:

Replaces 70W Metal Halide

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating:

B1 U0 G0

Electrical

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz., 4KV surge protection, 120V: 0.14A, 208V: 0.08A, 240V: 0.07A, 277V: 0.06A

THD:

7.7% at 120V, 13.3% at 277V

Power Factor:

99.4% at 120V, 95.4% at 277V

Dimensions

6.5"
165mm

8.75"
222mm

3.9"
99mm
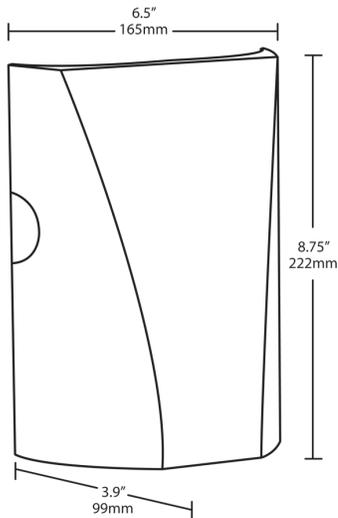
Features

Full cutoff, fully shielded LED wall pack

Can be used as a downlight or uplight

Contractor friendly features for easy installation

100,000-hour LED Life

5-Year, No-Compromise Warranty

Need help? Tech help line: **(888) 722-1000** Email: **sales@rablighting.com** Website: **www.rablighting.com**

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Page 2 of 3

SLIM12Y

Ordering Matrix

Family	Wattage	Color Temp	Finish	Driver	Options
SLIM	12	Y			

12 = 12W
18 = 18W
26 = 26W

Blank = 5000K Cool
N = 4000K Neutral
Y = 3000K Warm

Blank = Bronze
W = White

Blank = Standard (120-277V)
/D10 = Dimmable

Blank = No Option
/PC = 120V Button
/PC2 = 277V Button
/LC = Lightcloud® Controller

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- One fixture converts nearly any manufacturers incandescent, CFL or H.I.D. fixtures with a rough-in inner diameter of 7-5/8″ to 8-1/8″diameter to high efficiency LED
- All installation can be performed from below the ceiling with out removing existing fixture
- Energy savings up to 50-60% vs. CFL and HID
- Superior-quality white LED light output using Chip on Board technology
- Patented Hyperbolic Reflector (U.S. Patent No. 10,670,227 B2)

PRODUCT SPECIFICATIONS

Atrius™ - Ready Product: Select models of the L-series product line deliver valuable data and connectivity to the Atrius IoT location based platform services. For more information, please refer to www.acuitybrands.com/Atrius.

OPTICS
Hyperbolic: Patented hyperbolic shape (U.S. Patent No. 10,670,227 B2) optimized for small, directional LED source, maximizes fixture efficiency while creating the "Silent Ceiling" appearance by reducing lamp image and aperture brightness • Geometry of hyperbolic curve provides unique aperture appearance and smoother light distribution
Parabolic/Lens: Computer-optimized parabolic reflector with frosted convexed lens regressed into cone provides uniform distribution with no striations
Wall Wash: Available in Hyperbolic and Parabolic. Both providing uniform distributions with no striations
Baffle: White or black painted deep multi-groove aluminum baffle insert with integral white painted flange and frosted convexed glass lens
Overlap Ring: All fixtures include a white painted overlap ring to conceal the housing from below the ceiling. The ring will extend past the trim flange. For additional ring color options, consult factory.

ELECTRICAL
LED Light Engine: Compact light source delivers uniform illumination without pixilation, enabling excellent beam control • 2SDCM (5000K within 3SDCM) • 80, 90 & 97 CRI • Replaceable light engine with push in wire connections mounts directly to heat sink and is easily replaceable
Passive Cooling: Aluminum heat sink integrated directly with housing provides superior thermal management to ensure the long life of LED
LED Driver: Power factor >0.9 • Easily replaceable from above or below the ceiling
Dimming: Dimmable via 0-10V protocol standard • Optional drivers available for use with Lutron EcoSystem, 2-wire dimmers DMXR, or DALI • For a list of compatible dimmers, see LED-DIM.
Life: Rated for 60,000 hours at 70% lumen maintenance • Available with optional Lumen Depreciation Indicator, LDI option (U.S. Patent No. 9,119,269)
Operation Temperature: -20° C to 50° C

ATRIUS READY

indy™
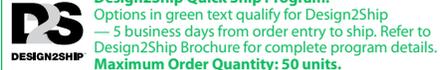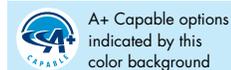
800 TO 9000 LUMEN 8" LED RETRO-FIT
HYPERBOLIC / PARABOLIC / WALLWASH

LRT8 SERIES

Project:

Notes:

**Type PR
8" (TBD) recessed (retrofit in existing locations) downlights at exterior covered entry.**

Emergency Battery Pack (Optional) output: Provides a minimum of 600 (BR & BRT20C), or 1000 (HBR) lumens for a minimum duration of 90 minutes • BRT20C option is CEC Title 20 compliant
Buy American: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty: 5 years when used in accordance with manufacturing guidelines. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

A+ Capable options indicated by this color background

Design2Ship Quick Ship Program:
Options in green text qualify for Design2Ship — 5 business days from order entry to ship. Refer to Design2Ship Brochure for complete program details. **Maximum Order Quantity: 50 units.**

ORDERING INFORMATION

Complete Catalog# Example Includes (Rough-In, option, reflector, accessory) Ordering Example: LRT8 08LM 27K MVOLT G4 80CRI ZT LDI HW CS PF

ROUGH-IN

Series		Lumen Package		Color Temperature		Voltage	Generation	CRI	Driver		Rough-In Options	
LRT8	8" L-Series Retrofit Downlight	08LM	800 Lumens	27K	2700K	120	G4	80CRI	DALI	DALI Control Dimming	F[3,9]	Fuse and Fuse Holder
		13LM	1300 Lumens	30K	3000K	277		90CRI[14]	DMXR[3]	DMX/RDM Driver	CP[10,22]	Chicago Plenum
		15LM	1500 Lumens	35K	3500K	347		97CRI[2]	EDAB[4,20]	eldoLED SOLOdrive DALI. Logarithmic dimming to <1%	LDI	Lumen Depreciation Indicator
		17LM	1700 Lumens	40K	4000K	MVOLT[1] (120-277)					BR[3,4,13]	600 Lumen Emergency Battery Pack w/Remote Test Switch
		23LM	2300 Lumens	50K	5000K				EDXB[3,4,6]	eldoLED POWERdrive DMX/RDM w/ Phoenix Connectors. Dimming to <1%		
		28LM	2800 Lumens								BRT20C[3,4,13]	600 Lumen Emergency Battery Pack w/ Remote Test Switch, CEC Title 20 Compliant
		33LM	3300 Lumens						EZ10[4,20]	eldoLED 0-10V ECOdrive. Linear dimming to 10% min.		
		40LM	4000 Lumens								HBR[3,4,13]	1000 Lumen Emergency Battery Pack w/Remote Test Switch
		45LM	4500 Lumens						EZ1[4,20]	eldoLED 0-10V ECOdrive. Linear dimming to 1% min.		
		50LM	5000 Lumens								NL[9,11]	nLight® Dimming Pack Controls
		55LM	5500 Lumens						EZB[4,20]	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%	NLER[9,11]	nLight® dimming pack controls. nLER controls fixtures on emergency circuit
		60LM	6000 Lumens									
		65LM	6500 Lumens								NLTAIR2[3,11,18]	nLight® AIR Dimming Pack Wireless Controls
		70LM	7000 Lumens								NLTAIRER2[3,11,18]	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit
		75LM	7500 Lumens						FD[5,7]	Forward or Reverse Phase Dimming Driver		
		80LM	8000 Lumens						FDL[7,8,16]	Forward Phase Dimming Lutron Driver	INC[7,19]	Medium base socket adapter for quick retro-fit of incandescent fixtures
		85LM	8500 Lumens						ECOD[8,16,21]	Lutron Ecosystem 2-Wire Dimming Driver		
		90LM	9000 Lumens						ZT	0-10V Dimming to 10% min	AE2CD[17,18]	Atrius™ - Ready, VLC Commissioning, Radio (BT Positioning)
									GZ1[5]	0-10V Dimming to 1% min		

REFLECTOR To order reflector separately, use "LRT8" prefix before reflector option values. Ex: LRT8 HW CS PF

Trim Style				Finish		Trim Options	
BAF[12]	Baffle	P	Parabolic	BL	Black, White Flange (Baffle only)	PF[15]	White Flange
HM[13]	Hyperbolic Medium	WC[13]	Corner Wall Wash	CD	Clear Diffuse	WET	Wet Location
HN[13]	Hyperbolic Narrow	WD[13]	Double Wall Wash	CS	Clear Specular		
HW[13]	Hyperbolic Wide	WS[13]	Single Wall Wash	CSS	Clear Semi-Specular		
HWS[13]	Hyperbolic Single Wall Wash			WH	White, White Flange		

ACCESSORIES

Accessories
INOR8/878 LRT8 Oversize ring for rough-in openings between 8-1/8" and 8-7/8"

Will need to field measure exiting opening to see if this is needed/necessary.

Ordering Notes
1. MVOLT not available for 85LM and up.
2. 2700K & 3000K only.
3. Not available with 347V.
4. Not compatible with LDI.
5. Not available for 6000 lumens and up.
6. Not available for 4000 and 5500 lumens and up.
7. 120V only.
8. Not available for 5000 lumens and up.
9. Specify voltage.
10. BR, BRT20C, HBR, EDXB, NL, NLER, NLTAIR2, NLTAIRER2 not compatible with CP.
11. Only compatible with the following driver options: EZ1, EZB, EZ10, GZ1; ZT (for 60LM - 90LM only).
12. Only available with BL or WH trim finish; white flange standard.
13. Not compatible with WET.

14. 90CRI not compatible with 50K for 800-2300 lumens.
15. PF not available with BL or WH finishes. When specifying BL or WH finishes, flange is always painted white.
16. Not compatible with BR, BRT20C, HBR, or LDI.
17. See AE2CD notes in following table for compatibility with other options.
18. NLTAIR2, NLTAIRER2, AE2CD not recommended for metal ceiling installations.
19. Cannot be used with BR, HBR, or BRT20C. Can only be used with FD, FDL, and ZT drivers (but cannot be dimmed with ZT).
20. Not available for 85LM and up.
21. ECOD with MVOLT only available for 08LM - 17LM.
22. CP with MVOLT only available for 08LM - 17LM.

AE2CD Notes
Only compatible with EZ1 driver for 55LM and below.
CP, BR, BRT20C, HBR, NL, NLER, NLTAIR2, NLTAIRER2 not compatible with AE2CD. Recommended ceiling height of 30' and under; not intended for use on ceilings greater than 40' or metal ceiling installations.

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Before ordering, check fixture compatibility as shown below:

1. Fixtures with closed cans are not compatible with Indy LRT retrofit fixtures. Only open frame style fixtures can be retrofitted using Indy LRT retrofits.
2. Measure the existing fixture frame opening by removing the existing reflector, then measuring the diameter of the existing metal frame opening. The correct measurement is shown in the photo below.
3. Refer to the below table to pick the correct fixture, or fixture plus oversize ring

Measure the diameter of the metal frame through the center of the opening

Existing Fixture Frame Opening Diameter	Use This Retrofit
6" through 6-5/8"	LRT6 fixture
6-11/16" through 7-1/2"	LRT6 fixture plus INOR6/712 oversize ring
7-5/8" through 8-1/8"	LRT8 fixture
8-3/16" through 8-7/8"	LRT8 fixture plus INOR8/878 oversize ring
9" through 10"	LRT9 fixture
10" through 11"	LRT10 fixture
11-3/4" through 12-3/4"	LRT12 fixture

PRODUCT SPECIFICATIONS (cont.)

MECHANICAL

Retro-fit Housing: Housing installs from below ceiling • Must be installed in ring frame only • Secured in place by three (3) tension clips • Tension clips accommodate ceilings from 1/2″ to 1-1/8″ thick • Integral heat sink conducts heat away from LED light engine • Driver is accessible from below the ceiling and can be upgraded to accommodate future technology improvements.

TRIMS:

HYPERBOLIC

PARABOLIC

HYPERBOLIC WALLWASH

PARABOLIC WALLWASH
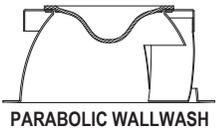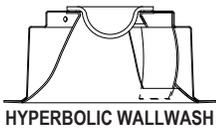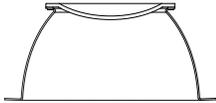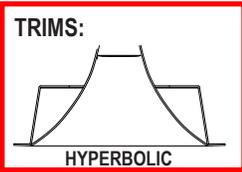
APERTURE: 7" Dia.
RETROFITS: fixtures with a rough-in inner diameter of 7-5/8″ to 8-1/8″
OVERLAP RING: 9-1/2" Dia.

PASSIVE COOLING DIMENSIONS: 800 - 9000 Lumens

Optional Medium Base socket adapter for quick retro-fit of incandescent fixtures (see 'INC' option)

To Existing Junction Box

5" Dia.

5"

7-7/8"

9" (NL, NLER, NLTAIR2, NLTAIRER2 DMXR)

10-5/8" (347V)

4-1/2"

4-3/4" (347V)

7-1/8" (NL, NLER, NLTAIR2, NLTAIRER2, DMXR)

7-1/2"

3-5/8"

7" Dia.

9-1/2" Dia.
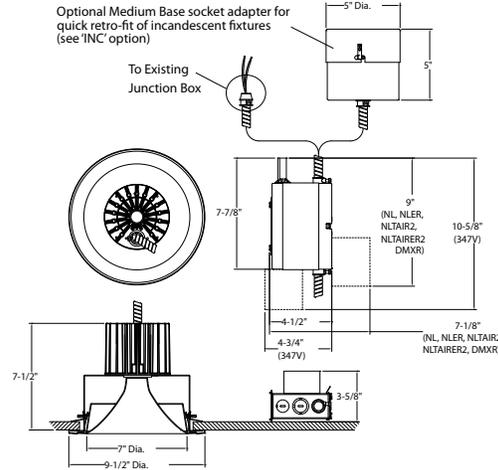
Atrius Enabled

PASSIVE COOLING DIMENSIONS: 800 - 9000 Lumens

Optional Medium Base socket adapter for quick retro-fit of incandescent fixtures (see 'INC' option)

To Existing Junction Box

11" (AE2CD)
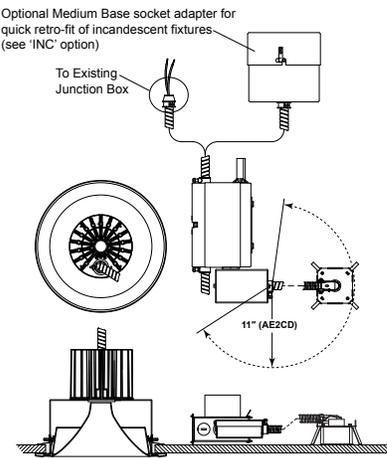
ENERGY STAR® certified

	PRODUCT#	FIXTURE CONFIGURATIONS = ENERGY STAR		
ENERGY STAR	LRT8 (WW)LM (XX)K MVOLT G4 (YY)CRI (UU) (ZZ) (CC)	Lumen Package:	WW = 08, 13, 15, 17, 23, 28, 33,40, 45, 55, 65, 75, 80, 85, 90	
		CCT:	XX = 27, 30, 35, 40, 50	
		Voltage:	V = MVOLT, 120, 277	
		CRI:	YY = 80, 90, 97	
		Driver:	UU = FD, DALI, EZ1, EZ10, EZB, ZT, GZ1	
		Trim Type:	ZZ = HN, HM, HW, P	
		Trim Color/Finish:	CC = CS, CSS, CD	

LABELS AND LISTINGS

• Tested to UL1598 and CSA C22.2 250 and listed for damp locations • Spacing requirement for 4000 lumen and above: minimum of 4' between fixture centers, 3" overhead clearance, 2' from fixture center to side wall • RoHS compliant • EMI complies with FCC 47, Part 15, Class A • ENERGY STAR® certified, see table for designated products • I.B.E.W. Union made • ARRA Compliant 🇺🇸

ENGINEERING DATA: 347 Volt available, consult factory

VOLTAGE									120									
LIGHT ENGINE LUMENS	800	1300	1500	1700	2300	2800	3300	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
CCT									2700K/3000K/3500K/4000K/5000K									
INPUT CURRENT	0.076	0.123	0.142	0.167	0.247	0.238	0.280	0.351	0.345	0.381	0.427	0.439	0.483	0.541	0.573	0.607	0.656	0.710
INPUT WATTAGE	9.15	14.70	17.06	19.98	29.64	28.46	33.62	42.14	41.41	45.54	51.08	52.51	58.11	64.59	68.84	72.83	78.87	85.03
INPUT FREQUENCY	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
THD%	6.67	4.25	3.91	4.07	5.68	5.46	4.43	4.53	6.03	6.03	6.23	6.44	6.54	7.32	7.58	7.75	8.37	8.05
POWER FACTOR	0.994	0.996	0.995	0.995	0.995	0.995	0.997	0.998	0.996	0.996	0.996	0.996	0.996	0.995	0.995	0.996	0.996	0.996
VOLTAGE									277									
LIGHT ENGINE LUMENS	800	1300	1500	1700	2300	2800	3300	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000
CCT									2700K/3000K/3500K/4000K/5000K									
INPUT CURRENT	0.036	0.058	0.067	0.077	0.113	0.108	0.131	0.158	0.161	0.175	0.195	0.202	0.221	0.251	0.265	0.268	0.290	0.310
INPUT WATTAGE	9.34	14.69	17.14	20.03	29.49	28.19	33.83	41.68	41.74	45.80	51.02	52.35	57.64	64.22	68.40	71.29	77.27	83.16
INPUT FREQUENCY	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
THD%	11.84	10.97	11.48	10.49	8.94	9.04	10.48	8.79	9.15	8.07	9.85	11.12	10.97	13.07	12.83	12.96	13.53	12.56
POWER FACTOR	0.925	0.918	0.916	0.934	0.944	0.943	0.932	0.953	0.934	0.943	0.944	0.933	0.942	0.921	0.931	0.957	0.962	0.965

HYPERBOLIC

DELIVERED LUMENS/LUMENS PER WATT (35K 80CRI)

	800 35K		1300 35K		1500 35K		1700 35K		2300 35K		2800 35K		3300 35K		4000 35K		4500 35K	
TRIM/FINISH	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
LRT8 HN CS	900	98.4	1453	98.9	1662	97.4	1873	93.8	2258	76.2	2827	99.3	3290	97.9	4000	94.9	4343	104.9
LRT8 HN CSS	801	87.6	1294	88.0	1480	86.7	1668	83.5	2010	67.8	2618	92.0	3047	90.6	3705	87.9	3658	88.3
LRT8 HN CD	724	79.1	1169	79.5	1337	78.4	1507	75.4	1816	61.3	2374	83.4	2763	82.2	3359	79.7	3428	82.8
LRT8 HM CS	880	96.2	1421	96.7	1625	95.3	1832	91.7	2208	74.5	2754	96.8	3205	95.3	3897	92.5	3937	95.1
LRT8 HM CSS	860	94.0	1388	94.4	1588	93.1	1790	89.6	2157	72.8	2671	93.9	3109	92.5	3780	89.7	3751	90.6
LRT8 HM CD	763	83.3	1231	83.8	1408	82.5	1587	79.4	1913	64.5	2439	85.7	2839	84.4	3452	81.9	3310	79.9
LRT8 HW CS	940	102.8	1518	103.3	1736	101.8	1957	98.0	2359	79.6	2971	104.4	3457	102.8	4203	99.7	4129	99.7
LRT8 HW CSS	907	99.1	1464	99.6	1674	98.1	1887	94.5	2275	76.7	2863	100.6	3332	99.1	4051	96.1	3807	91.9
LRT8 HW CD	868	94.9	1402	95.4	1604	94.0	1808	90.5	2179	73.5	2743	96.4	3192	94.9	3881	92.1	3513	84.8

	5000 35K		5500 35K		6000 35K		6500 35K		7000 35K		7500 35K		8000 35K		8500 35K		9000 35K	
TRIM/FINISH	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
LRT8 HN CS	4753	104.4	5263	103.0	5466	104.1	5984	103.0	6550	101.4	6858	99.6	7275	99.9	8032	101.8	8456	99.4
LRT8 HN CSS	4004	87.9	4433	86.8	4604	87.7	5040	86.7	5517	85.4	5776	83.9	6128	84.1	6765	85.8	7122	83.8
LRT8 HN CD	3751	82.4	4154	81.3	4314	82.1	4723	81.3	5170	80.0	5412	78.6	5742	78.8	6339	80.4	6673	78.5
LRT8 HM CS	4309	94.6	4772	93.4	4955	94.4	5425	93.4	5938	91.9	6217	90.3	6596	90.6	7282	92.3	7666	90.2
LRT8 HM CSS	4105	90.1	4546	89.0	4721	89.9	5168	88.9	5657	87.6	5923	86.0	6284	86.3	6937	88.0	7303	85.9
LRT8 HM CD	3623	79.5	4011	78.5	4166	79.3	4561	78.5	4992	77.3	5227	75.9	5545	76.1	6122	77.6	6445	75.8
LRT8 HW CS	4519	99.2	5004	98.0	5197	99.0	5690	97.9	6228	96.4	6521	94.7	6918	95.0	7637	96.8	8040	94.6
LRT8 HW CSS	4166	91.5	4613	90.3	4791	91.2	5245	90.3	5741	88.9	6011	87.3	6377	87.6	7040	89.3	7411	87.2
LRT8 HW CD	3845	84.4	4258	83.4	4422	84.2	4841	83.3	5299	82.0	5548	80.6	5886	80.8	6498	82.4	6841	80.5

PARABOLIC

DELIVERED LUMENS/LUMENS PER WATT (35K 80CRI)

	800 35K		1300 35K		1500 35K		1700 35K		2300 35K		2800 35K		3300 35K		4000 35K		4500 35K	
TRIM/FINISH	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
LRT8 P CS	743	81.2	1200	81.6	1373	80.5	1547	77.4	1865	62.9	2319	81.5	2699	80.3	3282	77.9	3491	84.3
LRT8 P CSS	744	81.4	1202	81.8	1375	80.6	1549	77.5	1868	63.0	2323	81.6	2703	80.4	3287	78.0	3507	84.7
LRT8 P CD	643	70.3	1038	70.6	1187	69.6	1338	67.0	1613	54.4	1995	70.1	2322	69.1	2823	67.0	3043	73.5

	5000 35K		5500 35K		6000 35K		6500 35K		7000 35K		7500 35K		8000 35K		8500 35K		9000 35K	
TRIM/FINISH	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
LRT8 P CS	3821	83.9	4231	82.8	4394	83.7	4810	82.8	5265	81.5	5513	80.1	5848	80.3	6456	81.9	6797	79.9
LRT8 P CSS	3838	84.3	4250	83.2	4414	84.1	4832	83.2	5290	81.9	5538	80.4	5875	80.7	6486	82.2	6828	80.3
LRT8 P CD	3330	73.1	3687	72.2	3829	72.9	4192	72.1	4589	71.0	4805	69.8	5097	70.0	5627	71.3	5924	69.7

BEAM SPREAD

TRIM	800-2300 LUMEN	2800-4000 LUMEN	4500-9000 LUMEN
LRT8 HN CS	15°	16°	24°
LRT8 HN CSS	20°	22°	28°
LRT8 HN CD	32°	36°	50°
LRT8 HM CS	48°	53°	64°
LRT8 HM CSS	48°	53°	64°
LRT8 HM CD	60°	60°	64°
LRT8 HW CS	68°	68°	70°
LRT8 HW CSS	68°	68°	70°
LRT8 HW CD	68°	68°	70°

	800-4000 LUMEN	4500-9000 LUMEN
LRT8 P CS	32°	40°
LRT8 P CSS	32°	40°
LRT8 P CD	70°	70°
LRT8 BAF BL	76°	76°

CCT MULTIPLIERS

CCT	08LM-23LM	28LM-40LM	45LM-90LM
2700K	0.97	0.9	0.92
3000K	0.99	0.96	0.97
3500K	1	1	1
4000K	1.04	1.02	1.01
5000K	1.09	1.04	1.05

CRI MULTIPLIERS

CRI	08LM-23LM	28LM-40LM	45LM-90LM
80CRI	1	1	1
90CRI	0.85	0.83	0.85
97CRI	0.79	0.80	0.77