AcuityBrands®
Life Safety Solutions

LITHONIA LIGHTING®

IOTA®

Where Life
Meets Safety.

Beyond the lighting designs of commercial and public spaces, careful consideration is given for critical Life Safety emergency egress requirements. Emergency lighting functionality is incorporated to provide the needed safety performance without negatively impacting normal lighting form and design.

The nature and extent of emergency lighting is driven by a combination of governmental standards, facility and space criteria, and the ultimate needs of building occupants. Every commercial and public space is unique, but the goal of emergency lighting remains the same: provide a safely-lit environment for occupants when normal life is interrupted by unexpected circumstances.

AcuityBrands

Leading the Way in Life Safety Solutions

Acuity Brands® delivers the largest portfolio of emergency lighting solutions for today's commercial, institutional, industrial, and public spaces. Our emergency lighting products offer confident performance for both general application projects and leading-edge architectural designs.

LITHONIA LIGHTING®

Lithonia Lighting® is a mainstay for delivering reliable and affordable exit and emergency lighting unit solutions for both general commercial applications or demanding heavy-duty performance requirements.

IOTA®

IOTA® is a leading provider of emergency battery designs and inverter systems that equip your existing fixtures to deliver confident emergency egress lighting during a loss of normal power.

Running Man Signs

Lithonia Lighting® Signage offers a variety of models to meet interior egress requirements. Our signage solutions are designed and manufactured for efficient, long-lasting performance, easy installation, and with versatile options to accommodate your application needs.

Models include standard running man signage as well as combination units to deliver critical egress lighting in the event of a loss of normal power.
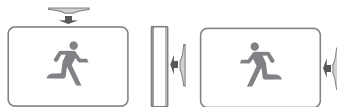
All models are offered with white or black housings to match application preferences.

Signs include left and right facing pictogram and arrow panels for meeting egress requirements.

Self-Diagnostic options provide monthly, bi-monthly, and annual diagnostics.

Top, back, or side mounting capability.

Choose from standard AC power only models or models with battery back-up power.

Remote lamp head capability on select models.

CSA Certified to U.S. and Canada standards.

Running Man Selections

These Running Man models provide essential signage for any application, with swappable panels to match facility egress needs. Select from dark or white housings, automatic self-diagnostics, or optional battery back-up.

EXRM

The EXRM is a lightweight, quick-installation sign featuring a snap-fit, injection-molded, high impact thermoplastic construction.

Pictogram: Comes fully packaged with right arrow, left arrow, and pictogram-only face plates

Panels: Single-face or double face display

Operation: AC Only or Ni-Cad backup battery options. Ni-Cad battery provides up to 2W LED remote capacity. Optional Self-Diagnostics provide 30 second monthly, 30 minute bi-monthly, and 90 minute annual tests.

Temp: 0° to 40°C indoor, damp location rated

Voltage: (Dual) 120/347VAC, 50/60 Hz input

Warranty: 5-year (limited)

Dimensions (in/cm)
12 (30.5) x 2.125 (5.4) x 8 (20.3)

Weight: 2 lbs (0.91 kgs)

Mounting: top/back/end

Certifications: CSA certified to US and Canadian standards. Meets CSA C22.2 No. 141.15. Meets CSA C860. Meets UL924, NFPA 101 (current Life Safety Code), NFPA 70- NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards.

✓ **Optional Self Diagnostics**

Remote Head Capability

LXRM

The LXRM features durable steel construction fully assembled with two screws for fast installation. Includes DC input leads for accepting 6V/12V/24V auxiliary power, if desired.

Pictogram: Comes fully packaged with right arrow, left arrow, and pictogram-only face plates

Panels: Single-face or double face display

Operation: AC Only or Ni-Cad backup battery options. Optional Self-Diagnostics provide 30 second monthly, 30 minute bi-monthly, and 90 minute annual tests.

Temp: 0° to 40°C indoor, damp location rated

Voltage: (Universal) 120-347VAC, 50/60 Hz input

Warranty: 5-year (limited)

Dimensions (in/cm)
13.25 (33.66) x 2.625 (6.67) x 7.875 (20)

Weight: 4.4 lbs (2 kgs)

Mounting: top/back/end

Certifications: CSA certified to US and Canadian standards. Meets CSA C22.2 No. 141.15. Meets CSA C860. Meets UL924, NFPA 101 (current Life Safety Code), NFPA 70- NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards.

120-347 **Universal 120-347VAC Input**

Durable Steel Design

DC Auxiliary Input Leads

✓ **Optional Self Diagnostics**

EARM

The EARM offers a lightweight, extruded aluminum housing with options for single or double face use. Includes DC input leads for accepting 6V/12V/24V auxiliary power, if desired.

Pictogram: Comes fully packaged with right arrow, left arrow, and pictogram-only face plates

Panels: Single-face or double face display options

Operation: AC Only or Ni-Cad backup battery options. Optional Self-Diagnostics provide 30 second monthly, 30 minute bi-monthly, and 90 minute annual tests.

Temp: 0° to 40°C indoor, damp location rated

Voltage: (Universal) 120-347VAC, 50/60 Hz input

Warranty: 5-year (limited)

Dimensions (in/cm)
13.25 (33.66) x 2.625 (6.67) x 7.875 (20)

Weight: 2.6 lbs (1.18 kgs)

Mounting: top/back/end

Certifications: CSA certified to US and Canadian standards. Meets CSA C22.2 No. 141.15. Meets CSA C860. Meets UL924, NFPA 101 (current Life Safety Code), NFPA 70- NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards.

120-347 **Universal 120-347VAC Input**

Lightweight Aluminum Design

DC Auxiliary Input Leads

✓ **Optional Self Diagnostics**

Combination Emergency Lighting

Combination units help meet required discharge signage requirements while also providing critical emergency illumination for marking the paths of egress. Internal battery options allow you to extend your emergency lighting capability even further with the addition of remote lamp heads.

ECRM

The ECRM features a lightweight thermoplastic housing with ultra-bright, adjustable LED lamp heads for optimal light spread.

Pictogram: Comes fully packaged with right arrow, left arrow, and pictogram-only face plates

Panels: Single-face or double face display

Optics: (2) 1W LED lamp heads

Operation: Sealed maintenance-free Ni-Cad battery provides 90 minutes emergency illumination with optional LED remote capacity up to 3W (HO model). Optional Self-Diagnostics provide 30 sec. monthly, 30 min. bi-monthly, and 90 min. annual tests.

Temp: 0° to 40°C indoor, damp location rated

Voltage: (Dual) 120/347VAC, 50/60 Hz input

Warranty: 5-year (limited)

Dimensions (in/cm)
20.375 (51.8) x 2.125 (5.4) x 8.75 (22.23)

Weight: 3.5 lbs (1.58 kgs), HO model - 3.75 lbs (1.7 kgs)

Mounting: top/back/end

Certifications: CSA certified to US and Canadian standards. Meets CSA C22.2 No. 141.15. Meets CSA C860. Meets UL924, NFPA 101 (current Life Safety Code), NFPA 70- NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards.

Combination Exit / Emergency Light

Single Unit Lighting Spread Up to 10-ft

Optional Self Diagnostics

Remote Head Capability Option

ECBRM

The ECBRM delivers emergency illumination utilizing a sleek, adjustable LED light bar for optimal lighting spread with minimal visual distraction.

Pictogram: Comes fully packaged with right arrow, left arrow, and pictogram-only face plates

Panels: Single-face or double face display

Optics: (1) 4.5W LED lamp bar

Operation: Sealed maintenance-free Ni-Cad battery provides 90 minutes emergency illumination and LED remote capacity up to 3W (HO model). Optional Self-Diagnostics provide 30 sec. monthly, 30 min. bi-monthly, and 90 min. annual tests.

Temp: 0° to 40°C indoor, damp location rated

Voltage: (Dual) 120/347VAC, 50/60 Hz input

Warranty: 5-year (limited)

Dimensions (in/cm)
14 (35.56) x 2 (5.08) x 8.5 (21.6)

Weight: 3.5 lbs (1.58 kgs)

Mounting: top/back/end

Certifications: CSA certified to US and Canadian standards. Meets CSA C22.2 No. 141.15. Meets CSA C860. Meets UL924, NFPA 101 (current Life Safety Code), NFPA 70- NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards.

Combination Exit / Emergency Light

Sleek, discreet swivel-design lamp

Single Unit Lighting Spread Up to 10-ft

Optional Self Diagnostics

Remote Head Capability

Maximize your emergency illumination by optimizing your combination units to match your egress requirements. While a single unit can service a 3-ft wide corridor up to 10-ft with a 1 foot-candle average, two units working together can illuminate an increased 28-ft distance.
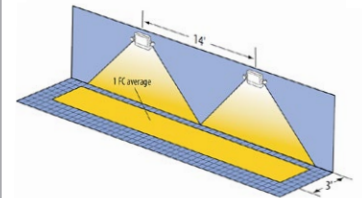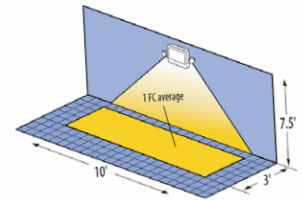
Maximum Spacing Guidelines
(7.5´ mounting height, 1FC Avg)

	Single Unit	Multiple Units
3´ Path of Egress	10´	14´
6´ Path of Egress	6´	11´

**100-ft Corridor, 8´ Wide and 9´ high with 80/50/20 reflectances**

Emergency Lighting Units

Emergency Lighting Units are stand-alone emergency solutions that mount strategically on the wall or ceiling. In the event of a power loss, the emergency lighting unit activates and provides egress illumination via the unit's internal battery supply.

Emergency Lighting Units are a popular choice due to their simplicity and fixed performance. With a selection of discreet architectural models and industrially-designed options for demanding environments, Lithonia Lighting® emergency unit equipment provides an option for most any egress application.
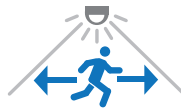
A full selection of lighting capabilities to solve both small or large egress requirements.
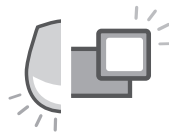
Architectural and industrial designs to match form and function of individual spaces.

Reduce costs and labor with self-diagnostics, remote testing, and energy efficient models.

Remote lamp head capability on select models.

Basics™

Lithonia Basics™ models deliver essential emergency lighting for typical egress applications.

Quantum™

Lithonia Quantum™ combines enhanced lighting performance with low-profile designs and decreased energy consumption.

EU2C

The EU2C provides fully-adjustable, bi-directional emergency illumination suitable for spaces such as stairways or hallways.

Optics: (2) 1W LED lamp heads. Remote Lamp Head option (up to 2).

Mounting: Wall Mount Only

Construction: Injection-molded, high-impact, flame-retardant, thermoplastic housing with snap-fit design.

Battery: Long-life Ni-Cad provides 90 minute emergency operation

Temp: 10° to 40°C indoor, damp location rated

Voltage: 120/347VAC input

Warranty: 2-year (limited)

Dimensions (in/cm):
14.625 (37.2) x 4 (10.2) x 3.75 (9.5)

Weight (lbs/kg): 1.7 (.77)

Certifications: UL 924 Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. CSA certified to Canadian C22.2 No. 141.15 standards.

Single Unit Lighting Spread up to 10-ft

Remote Head Capability

Self-Diagnostics Option

Contractor Select models available

ELM2L

The Quantum® ELM2L combines an impressive 32-ft lighting spread with low-profile design and energy-saving performance.

Optics: (2) 1.2W LED lamp heads. Aimable or Fixed Lamp and Remote Head options.

Mounting: Wall or Ceiling Mount

Construction: Injection-molded, high-impact, flame-retardant, thermoplastic housing with all-inclusive lamp, reflector and lens assembly.

Battery: Long-life Ni-Cad or Lithium LiFePO$_4$ options provide 90 minute operation

Temp: 10° to 40°C indoor, damp location rated. Wet Location option.

Voltage: Multiple voltage models available

Warranty: 5-year (limited)

Dimensions (in/cm): 9.72 (24.7) x 4.68 (11.9) x 3.1 (7.9)

Weight (lbs/kg): 1.3 (.59)

Certifications: UL 924 Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

Single Unit Lighting Spread up to 32-ft

Exceptionally Low Power Consumption

Remote Head Capability

Self-Diagnostics and Remote Test Option

Contractor Select models available

ELM4L / ELM6L

The Quantum® ELM4L and ELM6L deliver exceptional lighting output to meet foot-candle levels from heights of up to 24 ft and distances up to 76 ft.

Optics: (2) 3.3W (4L) or (2) 5.3W (6L) LED lamp heads with unique track-and swivel arrangement.

Mounting: Wall or Ceiling Mount

Construction: Injection-molded, high-impact, flame-retardant, thermoplastic housing with all-inclusive lamp, reflector and lens assembly.

Battery: Long-life Ni-Cad or Lithium LiFePO$_4$ models provide 90 minute operation

Temp: 10° to 40°C indoor, damp location rated. Wet Location option.

Voltage: Multiple voltage models available

Warranty: 5-year (limited)

Dimensions (in/cm): 13.37 (34) x 5.93 (15.1) x 3.7 (9.4)

Weight (lbs/kg): 3.0 (1.36), 3.75 (1.70) - HO models

Certifications: UL 924 Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

Single Unit Lighting Spread up to 76-ft

Up to 24 ft Mounting Height

Exceptionally Low Power Consumption

Remote Head Capability

Self-Diagnostics and Remote Test Option

Contractor Select models available

Affinity® Designs

Affinity® Die-Cast Emergency Lights effortlessly deliver emergency and security solutions for architectural design spaces, both inside and out.

Indura®

Indura exemplifies craftsmanship in both design and duty, delivering powerful egress lighting in a light-weight yet rugged enclosure.

AFB

The AFB Affinity Basic provides 225 lumens in both normally-on and emergency modes with a 26-ft lighting spread.

Optics: Long-life LED. Normally-Off Remote Lamp Head option.

Mounting: Wall Mount

Construction: Die-cast aluminum available in white and dark bronze powder-coat.

Battery: Ni-Cad or Lithium LiFePO$_4$ models provide 90 minute operation

Temp: 0° to 50°C wet location rated. -30° to 50°C Cold Weather optional.

Voltage: 120-347VAC, 50/60Hz input

Warranty: 5-year (limited)

Dimensions (in/cm):
7.3 (18.5) x 3.15 (8) x 10 (25.4)

Weight (lbs/kg): 3.5 (1.59)

Certifications: UL 924 Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

AFF

The AFF Affinity Premium offers extensive 62-ft spread and patented forward throw options at 635 lumens in both normal and emergency modes.

Optics: Long-life LED. Normally-Off Remote Lamp Head option. Forward Throw configurable.

Mounting: Wall Mount

Construction: Die-cast aluminum available in white or dark bronze powder-coat or natural aluminum.

Battery: Lithium LiFePO$_4$ battery provides 90 minute operation

Temp: 0° to 50°C wet location rated. -30° to 50°C Cold Weather optional.

Voltage: 120-347VAC, 50/60Hz input

Warranty: 5-year (limited)

Dimensions (in/cm):
6.5 (16.5) x 3.27 (8.3) x 10.02 (25.5)

Weight (lbs/kg): 3.5 (1.59)

Certifications: UL 924 Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

INDL

The INDL provides several levels of egress illumination in a heavy duty yet lightweight design for wet locations.

Optics: Track and swivel LED lamp heads offer 640, 1100, or 2200 lumen levels.

Mounting: Wall Mount

Construction: Gray impact-resistant, flame-rated thermoplastic design with UV-stable resin to resist discoloration.

Battery: Maintenance-free Lithium Iron Phosphate (LiFePO$_4$)

Temp: 0° to 50°C
Cold Weather option: -30° to 50°C

Voltage: 120-347VAC, 50/60Hz input

Warranty: 5-year (limited)

Dimensions (in/cm):
13.04 (33.1) x 6.31 (16) x 9.75 (24.8)

Weight (lbs/kg): 4.9 (2.22)
7.0 (3.18) - 2200 lumen model

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

EXTL

The EXTL provides several levels of egress illumination in a NEMA 4X enclosure for protection against debris and moisture in hose-down environments.

Optics: Track and swivel LED lamp heads offer 640, 1100, or 2200 lumen levels.

Mounting: Wall Mount

Construction: Gray impact-resistant, flame-rated thermoplastic design with UV-stable resin to resist discoloration.

Battery: Maintenance-free Lithium Iron Phosphate (LiFePO$_4$)

Temp: 0° to 50°C
Cold Weather option: -30° to 50°C

Voltage: 120-347VAC, 50/60Hz input

Warranty: 5-year (limited)

Dimensions (in/cm):
13.94 (35.4) x 6.42 (16.3) x 10.42 (26.5)

Weight (lbs/kg): 5.55 (2.52)
7.65 (3.5) - 2200 lumen model

Certifications: UL 924 Wet Location Listed. NEMA 4X, IP66 and NSF Listed. Meets NFPA 101, NEC, OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

AFB
- Single Unit Lighting Spread up to 26-ft
- Exceptionally Low Power Consumption
- Self-Diagnostics and Remote Test Option
- Remote Head Capability
- Photocell Function Options
- Cold Weather Option

AFF
- Single Unit Lighting Spread up to 62-ft
- Exceptionally Low Power Consumption
- Self-Diagnostics and Remote Test Option
- Remote Head Capability
- Photocell Function Options
- Cold Weather Option

INDL
- Single Unit Lighting Spread up to 124-ft
- Wet Location
- Remote Head Capability
- Self-Diagnostics / Remote Test Option
- Cold Weather Option

EXTL
- Single Unit Lighting Spread up to 110-ft
- NEMA 4X Protection against moisture and debris
- Remote Head Capability
- Self-Diagnostics / Remote Test Option
- Cold Weather Option

Remote Lamps

Remote Lamps bring added versatility and functionality to battery-powered Lithonia Lighting® Signage and Emergency Lights. Bring emergency lighting to building exteriors where environmental conditions prevent the use of standard battery designs.

Remote Lamps are offered in a variety of output levels and design styles to maintain consistent appearance and performance along the facility's indoor and outdoor paths of egress.

Remotes contain no batteries, making them a cost-effective means of expanding emergency capability.

Select remotes are compatible with self-testing/self-diagnostic emergency lights and exit signs.

Single or Twin Lamp Head options provide optimal egress lighting levels.

Remotes bring emergency lighting functionality to demanding environments, such as wet or freezing locations.

Indoor Remotes

Round and square lamp heads provide effective emergency lighting for your indoor egress applications. Available in both single and dual lamp head models, these units feature easily-adjustable lamps for optimal emergency illumination.

ELMRE LP

ELMRE LP remotes complement your Quantum® emergency model installations and feature a linear light throw.

Optics: Single/twin round heads, 1.2W ea.

Output: 110 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Low-profile contemporary design is high-impact, flame-retardant, thermoplastic housing. White or black finish.

DC Voltage Compatibility: 5V - 30V

Temp: 10° to 40°C indoor, damp location

Warranty: 5-year (limited)

Dimensions (in/cm):
6.87 (17.4) x 3.53 (9) x 4.67 (11.9)

Weight (lbs/kg):
Single - 0.75 (.34)
Twin - 0.8 lbs (.36)

Certifications: UL 924 Listed. Meets NFPA 101, NEC, OSHA, Local and State Codes. C22.2 CSA.

Recommended for
ELM2L / ELM2LF
ELM4L / ELM6L
INDL
EXTL

- **Lamp Head Design for Linear Lighting Pattern**
- **Fully-Adjustable Lamp Head Function**
- **Fixed Lamp Head Option**
- **Self-Diagnostic Compatible**

ELMRE SP

ELMRE SP remotes complement your Quantum® emergency model installations. Features spotlight distribution.

Optics: Single/twin heads, up to 5.3W ea.

Output: 320-550 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Low-profile contemporary design is high-impact, flame-retardant, thermoplastic housing. White or black finish.

DC Voltage Compatibility: 5V - 30V

Temp: 10° to 40°C indoor, damp location

Warranty: 5-year (limited)

Dimensions (in/cm):
6.87 (17.4) x 3.69 (9.4) x 4.67 (11.9)

Weight (lbs/kg):
Single - 1.55 (.70)
Twin - 1.65 (.75)

Certifications: UL 924 Listed. Meets NFPA 101, NEC, OSHA, Local and State Codes. C22.2 CSA.

Recommended for
ELM2L / ELM2LF
ELM4L / ELM6L
INDL
EXTL

- **Lamp Head Design for Spotlight Pattern**
- **Fully-Adjustable Lamp Head Function**
- **Self-Diagnostic Compatible**

ERE SQ

The ERE SQ features single or twin square-head lamps designed to complement EU2C emergency light installations.

Optics: Square LED lampheads, 1W per lamp

Output: 90 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Injection-molded, high-impact, flame-retardant, thermoplastic housing.White or black finish.

DC Voltage Compatibility: 3.6V - 12V

Temp: 10° to 40°C indoor, damp location rated

Warranty: 2-year (limited)

Dimensions (in/cm):
Single - 5.875 (14.9) x 4.875 (12.4) x 5.875 (14.9)
Twin - 5.875 (14.9) x 4.875 (12.4) x 8.625 (21.9)

Weight (lbs/kg):
Single - 0.55 (.24)
Twin - 0.60 (.27)

Certifications: UL 924 Listed with approved Lithonia Products. Meets NFPA 101, NEC, OSHA, Local/State Codes. CSA.

Recommended for
EU2C
ECRM
EXRM
ECBRM

- **Fully-Adjustable Lamp Head Function**

Standard Outdoor Performance

Extend emergency lighting to outdoor paths of egress with remote lamps designed for lower temperatures and wet location requirements.

ERE WP SQ

ERE WP SQ provide weather-proof single and twin lamp remote options for most Lithonia Basics™ emergency lights and exit signs.

Optics: Square LED heads, 1W per lamp

Output: 90 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Injection-molded, high-impact, flame-retardant, thermoplastic housing with black or gray finish.

DC Voltage Compatibility: 3.6V - 12V

Temp: -20° to 50°C wet location rated

Warranty: 2-year (limited)

Dimensions (in/cm):
Single - 4.25 (10.8) x 2.25 (5.7) x 6.62 (16.8)
Twin - 10.38 (26.4) x 2.25 (5.7) x 6.8 (17.3)

Weight: Single 0.65 (.29), Twin 1.3 (.59)

Certifications: UL 924 Listed with approved Lithonia Products. Meets NFPA 101, NEC, OSHA, Local/State Codes. CSA.

Recommended for
EU2C
ECRM
EXRM
ECBRM

Fully-Adjustable Lamp Head Function

Outdoor / Wet Location Rated

ERE WP RD

The ERE WP RD single or twin round-head lamps are rated for use in wet or outdoor applications.

Optics: Round LED heads, 0.75W / lamp

Output: 75 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Engineering grade, high-impact resistant thermoplastic, sealed and gasketed housing.

DC Voltage Compatibility: 3.6V

Temp: -30° to 50°C indoor, damp location

Warranty: 2-year (limited)

Dimensions (in/cm):
Single - 4.51 (11.5) x 1.74 (4.4) x 4.46 (11.3)
Twin - 6.73 (17.1) x 1.74 (4.4) x 4.946 (12.6)

Weight: Single - 0.75 (.34), Twin - 1.0 (.45)

Certifications: UL 924 Wet Location Listed with approved Lithonia Products. Meets NFPA 101, NEC, OSHA, Local/State Codes. CSA.

Recommended for
EU2C

Fully-Adjustable Lamp Head Function

Outdoor / Wet Location Rated

ELMRW LP

ELMRW LP remotes provide wet location capability for Quantum® installations and feature a linear light throw.

Optics: Single/twin round 1.2W heads,

Output: 110 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Die-cast, wet-location housing with powder-coat finish. Dark bronze, black, white, or natural aluminum.

DC Voltage Compatibility: 3V - 20V

Temp: -40° to 55°C wet location listed

Warranty: 5-year (limited)

Dimensions (in/cm):
Single - 4.13 (10.5) x 3.24 (8.2) x 4.13 (10.5)
Twin - 6.66 (16.9) x 2.69 (6.8) x 4.13 (10.5)

Weight: Single - 0.7 (.32), Twin - 1.0 (.45)

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, NEC, OSHA, Local/State Codes. C22.2 CSA. FCC Title 47 Part 15, Subpart B.

Recommended for	
EXRM	ELM2L / ELM2LF
ECRM	ELM4L / ELM6L
ECBRM	INDL
	EXTL

Outdoor / Wet Location Rated

Lamp Head Design for Linear Lighting Pattern

Fully-Adjustable Lamp Head Function

Self-Diagnostic Compatible

ELMRW SP

ELMRW SP remotes provide wet location capability for Quantum® installations. Features spotlight distribution.

Optics: Single/twin heads, 3.3W ea.

Output: 320 lumens per lamp

Mounting: Wall mount or ceiling mount

Construction: Die-cast, wet-location housing with powder-coat finish. Dark bronze, black, white, or natural aluminum.

DC Voltage Compatibility: 5V - 20V

Temp: -40° to 55°C wet location listed

Warranty: 5-year (limited)

Dimensions (in/cm):
Single - 4.13 (10.5) x 3.24 (8.2) x 4.13 (10.5)
Twin - 6.66 (16.9) x 2.69 (6.8) x 4.13 (10.5)

Weight: Single - 0.7 (.32), Twin - 1.0 (.45)

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, NEC, OSHA, Local/State Codes. C22.2 CSA. FCC Title 47 Part 15, Subpart B.

Recommended for	
EXRM	ELM2L / ELM2LF
ECRM	ELM4L / ELM6L
ECBRM	INDL
	EXTL

Outdoor / Wet Location Rated

Lamp Head Design for Spotlight Pattern

Fully-Adjustable Lamp Head Function

Self-Diagnostic Compatible

Architectural, Industrial, and Heavy Duty

Extend your emergency lighting capability while meeting interior and exterior environment demands and aesthetics. These remote lamp units are specifically designed to match Affinity and Indura installations, but can be used to expand the function of other select Acuity Brands emergency lighting products.

Affinity®

AFF OELR

The AFF OELR delivers expanded remote lighting functionality in a sleek, die-cast design.

Optics: Wide or forward throw LED, 8.5W

Output: Up to 635 lumens

Mounting: Wall mount or ceiling mount

Construction: Die-cast, wet-location housing with powder-coat finish. Dark bronze, black, white, or natural aluminum.

DC Voltage Compatibility: 8V - 30V

Temp: -40° to 50°C wet location listed

Warranty: 5-year (limited)

Dimensions (in/cm):
6.5 (16.5) x 3.27 (8.3) x 10.02 (25.5)

Weight: 3.0 (1.36)

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

Recommended for
INDL
EXTL
ELM4L / ELM6L

💧 **Outdoor / Wet Location Rated**

☑ **Self-Diagnostic Compatible**

AFB OELR

The AFB OELR delivers expanded remote lighting functionality in a sleek, die-cast design.

Optics: Wide throw LED, 2.6W

Output: 225 lumens

Mounting: Wall mount or ceiling mount

Construction: Die-cast aluminum available in white and dark bronze powder-coat.

DC Voltage Compatibility: 8V - 30V

Temp: -40° to 50°C wet location listed

Warranty: 5-year (limited)

Dimensions (in/cm):
7.3 (18.5) x 3.15 (8) x 10 (25.4)

Weight: 3.0 (1.36)

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

Recommended for
INDL
EXTL
ELM4L / ELM6L

💧 **Outdoor / Wet Location Rated**

☑ **Self-Diagnostic Compatible**

Indura®

INDRE

The INDRE delivers optimal emergency lighting for light and heavy environments, including wet location.

Optics: Dual or single LED, up to 11W

Output: 320, 550, or 1100 lumens

Mounting: Wall mount or ceiling mount

Construction: Impact-resistant thermoplastic housing with die-cast base.

DC Voltage Compatibility: 7V - 30V

Temp: -30° to 50°C wet location listed

Warranty: 5-year (limited)

Dimensions (in/cm):
11.76 (29.9) x 4.63 (11.8) x 7.02 (17.8)

Weight: 3.65 (1.66)

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10.

Recommended for
ELM4L / ELM6L
INDL
EXTL

💧 **Outdoor / Wet Location Rated**

☑ **Self-Diagnostic Compatible**

EXTLRE

The EXTLRE delivers optimal emergency lighting for **extreme** location demands.

Optics: Dual or single LED, up to 11W

Output: 320, 550, or 1100 lumens

Mounting: Wall mount or ceiling mount

Construction: Impact-resistant thermoplastic housing and shield with die-cast base.

DC Voltage Compatibility: 7V - 30V

Temp: -30° to 50°C wet location listed

Warranty: 5-year (limited)

Dimensions (in/cm):
11.76 (29.9) x 4.63 (11.8) x 7.02 (17.8)

Weight: 3.65 (1.66)

Certifications: UL 924 Wet Location Listed. Meets NFPA 101, FCC Title 47, Part 15, Subpart B, NFPA 70-NEC, and OSHA illumination standards. Listed to Canadian Standards C22.2 No. 141-10. NEMA 4X, IP66 and NDF Listed.

Recommended for
ELM4L / ELM6L
INDL
EXTL

💧 **NEMA 4X Protection against moisture and debris**

☑ **Self-Diagnostic Compatible**

Select Lithonia Lighting® running man signs and emergency lights are capable of operating remote units. To do so, the battery supply must be properly rated to power the additional remotes. Refer to the chart below for recommended combinations and remote quantities.

Signage	ERE Square Single Lamp[1]	ERE Square Twin Lamp[1]	ELMRE Round Single Lamp[1]	ELMRE Round Twin Lamp[1]	AFB OELR	AFF OELR	INDRE / EXTLRE SP640L	INDRE / EXTLRE SP1100L	INDRE / EXTLRE SP2200L
ECRM	ERE SGL SQ (4)*	ERE T SQ (2)*	ELMRW LP220L (2)	ELMRW LP220L (1)					
ECRM SD	ERE SGL SD SQ (4)*	ERE T SD SQ (2)*							
EXRM	ERE SGL SQ (4)	ERE T SQ (2)							
EXRM EL SD	ERE SGL SD SQ (4)	ERE T SD SQ (2)							
ECBRM	ERE SGL SQ (4)*	ERE T SQ (2)*	ELMRW LP220L (2)	ELMRW LP220L (1)					
ECBRM SD	ERE SGL SD SQ (4)*	ERE T SD SQ (2)*							

Emergency Lights	ERE Square Single Lamp[1]	ERE Square Twin Lamp[1]	ELMRE Round Single Lamp[1]	ELMRE Round Twin Lamp[1]	AFB OELR	AFF OELR	INDRE / EXTLRE SP640L	INDRE / EXTLRE SP1100L	INDRE / EXTLRE SP2200L
EU2C HO	ERE SGL SQ (2)	ERE T SQ (1)	ELMRW LP220L (2)	ELMRW LP220L (1)					
ELM2L			ELMRE SGL (2)**	ELMRE T (1)**					
ELM4L LTP			ELMRE SGL (3)**	ELMRE T (1)**					
ELM4L LTP HO			ELMRE SGL (12)**	ELMRE T (6)**	AFB OELR (1)	AFF OELR (1)			
ELM4L LTP EHO			ELMRE SGL (21)**	ELMRE T (10)**	AFB OELR (1)	AFF OELR (1)			
ELM6L LTP HO			ELMRE SGL (9)**	ELMRE T (4)**	AFB OELR (1)	AFF OELR (1)			
ELM6L LTP EHO			ELMRE SGL (17)**	ELMRE T (8)**	AFB OELR (1)	AFF OELR (1)			
ELM6L LLH LTP			ELMRE SGL (9)**	ELMRE T (4)**	AFB OELR (1)	AFF OELR (1)			
ELM6L LLH LTP HO			ELMRE SGL (18)**	ELMRE T (9)**	AFB OELR (1)	AFF OELR (1)			
ELM6L LLH LPT EHO			ELMRE SGL (26)**	ELMRE T (13)**	AFB OELR (1)	AFF OELR (1)			
INDL / EXTL SP640L							SP640L (1)		
INDL / EXTL SP640L HO					AFB OELR (1)	AFF OELR (1)	SP640L (4)	SP1100L (2)	SP2200L (1)
INDL / EXTL SP640L EHO					AFB OELR (1)	AFF OELR (1)	SP640L (7)	SP1100L (4)	SP1100L (2)
INDL / EXTL SP1100L HO							SP640L (3)	SP1100L (1)	
INDL / EXTL SP1100L EHO					AFB OELR (1)	AFF OELR (1)	SP640L (6)	SP1100L (4)	SP1100L (1)
INDL / EXTL SP2200L EHO					AFB OELR (1)	AFF OELR (1)	SP640L (3)	SP1100L (1)	

[1] Options include outdoor rated, weather-proof remote models unless noted otherwise.

*When using outdoor (WP) remotes, reduce max quantity by 1.

**Max. remote quantity based on lowest ELM lamp wattage option. RW not available on highest lamp head wattage.

Additional pairings of Lithonia Lighting® exit signs and emergency lights are possible. Contact our Technical Services team for questions regarding other remote combinations possibilities.

LITHONIA LIGHTING®

Emergency LED Drivers

IOTA® Emergency Drivers provide confident battery back-up to your existing LED fixtures, enabling them to deliver emergency egress lighting where you need it and at the illumination level you desire.

Emergency LED drivers wire in conjunction with the normal LED driver and LED board. If normal power to the AC driver fails, the emergency driver activates and powers the LED array directly from the emergency driver's battery supply.

CP

True Constant Power Performance delivers unwavering output wattage, resulting in non-diminishing illumination for the full emergency runtime.

10V
60V

Auto-Sense Forward Voltage automatically detects the needed Class 2 voltage to operate the LED array. Non-Class 2 designs also available.

c (UL) US LISTED

UL Listed for both Field and Factory Installation in U.S. and Canada
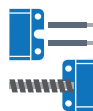
Models available with or without flexible metal conduit to accommodate individual fixture requirements.

Enhanced performance options such as self-diagnostics, high-efficiency models, and more.

Drivers for Basic Egress

These emergency drivers provide constant power solutions in a minimal enclosure - ideal for smaller spaces and standard height ceilings. Constant Power performance is especially advantageous for lower wattage emergency drivers where there is less tolerance for diminishing foot candles.

5W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	500 lumens	500 lumens
	110 lm/W	550 lumens	550 lumens
	120 lm/W	600 lumens	600 lumens
	130 lm/W	650 lumens	650 lumens
	140 lm/W	700 lumens	700 lumens

7W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	700 lumens	700 lumens
	110 lm/W	770 lumens	770 lumens
	120 lm/W	840 lumens	840 lumens
	130 lm/W	910 lumens	910 lumens
	140 lm/W	980 lumens	980 lumens

ILB CP05

The ILB CP05 offers **5W** constant power in a standard profile enclosure. Available with or without flexible conduit.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 2.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 5 Watts (Constant)

Output Current Range: 0.5A (@10VDC) - 0.08A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hour Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 9.5 x 2.4 x 1.5 in. (mounting center 9.0 in.)

Weight: 2.5 lbs (no flex), 3.0 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Available in Different Mounting Configurations

Contractor Select models available

ILBSL CP05

The ILBSL CP05 features **5W** output in a slim profile enclosure designed for integral installation in narrow compartment spaces.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 2.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 5 Watts (Constant)

Output Current Range: 0.5A (@10VDC) - 0.08A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hour Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 16.5 x 1.54 x 1.2 in. (mounting center 16.07 in.)

Weight: 2.4 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Slim Profile Enclosure

ILB CP07

The ILB CP07 offers **7W** constant power performance in a standard profile enclosure with or without flexible conduit.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.5 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 7 Watts (Constant)

Output Current Range: 0.7A (@10VDC) - 0.12A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hour Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 13 x 2.2 x 1.25 in. (mounting center 12.6 in.)

Weight: 2.5 lbs (no flex), 3.0 lbs (w/ flex)

Certifications: UL 924 Listed for U.S and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Available in Different Mounting Configurations

ILB CP07 2H

The ILB CP07 2H delivers **7W** constant power for extended **120 minute** runtime requirements.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 7 Watts (Constant)

Output Current Range: 1.0A (@10VDC) - 0.16A (@60VDC)

Emergency Operation: 120 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 13 x 2.2 x 1.25 in. (mounting center 12.6 in.)

Weight: 3.5 lbs (no flex), 4.0 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

2-Hour FEMA Operation

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Available in Different Mounting Configurations

Increased Lighting Performance

8W and 10W emergency drivers deliver increased emergency lumen options for general egress applications, smaller spaces and standard ceiling heights.

8W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	800 lumens	**800 lumens**
	110 lm/W	880 lumens	**880 lumens**
	120 lm/W	960 lumens	**960 lumens**
	130 lm/W	1040 lumens	**1040 lumens**
	140 lm/W	1120 lumens	**1120 lumens**

10W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	1000 lumens	**1000 lumens**
	110 lm/W	1100 lumens	**1100 lumens**
	120 lm/W	1200 lumens	**1200 lumens**
	130 lm/W	1300 lumens	**1300 lumens**
	140 lm/W	1400 lumens	**1400 lumens**

ILBSL CP07

The ILBSL CP07 features a slim profile enclosure designed for integral installation in narrow compartment spaces.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.5 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 7 Watts (Constant)

Output Current Range: 0.7A (@10VDC) - 0.12A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hour Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 22.44 x 1.2 x 1.2 in. (mounting center 22.0 in.)

Weight: 3.0 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Slim Profile Enclosure

ILBSL CP08 HE

The ILBSL CP08 HE features **8W** output in a slim profile enclosure for installation in narrow compartment spaces.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 2.9 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 8 Watts (Constant)

Output Current Range: 0.8A (@10VDC) - 0.13A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hour Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 22.17 x 1.18 x 1.18 in. (mounting center 21.77 in.)

Weight: 2.25 lbs

Certifications: UL 924 Listed for U.S and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Slim Profile Enclosure

ILB CP10

The ILB CP10 offers **10W** constant power performance in a standard profile enclosure with or without flexible conduit.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 10 Watts (Constant)

Output Current Range: 1.0A (@10VDC) - 0.16A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 13.3 x 2.375 x 1.5 in. (mounting center 12.75 in.)

Weight: 3.5 lbs (no flex), 4.0 lbs (w/ flex)

Certifications: UL 924 Listed for U.S and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Available in Different Mounting Configurations

Contractor Select models available

ILBSL CP10

The ILBSL CP10 features a slim profile enclosure designed for integral installation in narrow compartment spaces.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 10 Watts (Constant)

Output Current Range: 1.0A (@10VDC) - 0.16A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 24.17 x 1.2 x 1.2 in. (mounting center 23.78 in.)

Weight: 3.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting

Auto-Sense Class 2 Compatible with 10-60VDC LED Designs

Slim Profile Enclosure

Spec-Grade Performance and Design

Specification Grade emergency drivers deliver increased constant wattage for exceptional lumen performance.

Low Profile "ILBLP" Emergency Drivers utilize lithium battery technology with to combine deliver spec-grade illumination with dramatic advantages in reduced size and weight, and include the added benefits of high-efficiency performance, and automatic monthly and annual self-diagnostics.

10W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	1000 lumens	1000 lumens
	110 lm/W	1100 lumens	1100 lumens
	120 lm/W	1200 lumens	1200 lumens
	130 lm/W	1300 lumens	1300 lumens
	140 lm/W	1400 lumens	1400 lumens

12W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	1200 lumens	1200 lumens
	110 lm/W	1320 lumens	1320 lumens
	120 lm/W	1440 lumens	1440 lumens
	130 lm/W	1560 lumens	1560 lumens
	140 lm/W	1800 lumens	1800 lumens

ILBLP CP10 HE SD

The ILBLP CP10 HE SD delivers 10W constant power output in a low-profile enclosure with or without flexible conduit. Includes Self-Diagnostics.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 0.053A (max)

Output (Forward) Voltage Range: 15-55VDC Class 2 Compliant

Output Power: 10 Watts (Constant)

Output Current Range: 0.67A (@15VDC) to 0.18A (@55VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate, 24 Hour Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 10.5 x 2.34 x 1.18 in. (mounting center 9.92 x 1.1 in.)

Weight: 1.5 lbs (no flex), 2.5 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Advanced Lithium Design for Reduced Size and Weight**
- **Auto-Sense Class 2 Compatible with 15-55VDC LED Designs**
- **Self-Diagnostics Included**
- **Features AC Activate for simplified Installation**
- **Available in Different Mounting Configurations**

ILBLP CP10 HE SD N

The ILBLP CP10 HE SD N delivers 10W constant power output in a narrow low-profile enclosure with hardwire connections. Includes Self-Diagnostics.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 0.10A (max)

Output (Forward) Voltage Range: 15-55VDC Class 2 Compliant

Output Power: 10 Watts (Constant)

Output Current Range: 0.67A (@15VDC) to 0.18A (@55VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate, 24 Hour Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 16.7 x 1.19 x 1.18 in. (mounting center 16.2 in.)

Weight: 1.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Advanced Lithium Design for Reduced Size and Weight**
- **Auto-Sense Class 2 Compatible with 15-55VDC LED Designs**
- **Self-Diagnostics Included**
- **Slim Profile Enclosure**
- **Model available with Poke-In Wiring Terminals ("NP")**
- **Features AC Activate for simplified Installation**

ILB CP12

The ILB CP12 provides an increased **12W** constant power output in a standard profile enclosure. Available with or without flexible conduit.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 12 Watts (Constant)

Output Current Range: 1.2A (@10VDC) - 0.2A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 13.3 x 2.375 x 1.5 in. (mounting center 12.75 in.)

Weight: 3.5 lbs (no flex), 4.0 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Auto-Sense Class 2 Compatible with 10-60VDC LED Designs**
- **Available in Different Mounting Configurations**

ILBSL CP12

The ILBSL CP12 features **12W** performance in a slim profile enclosure designed for integral installation in narrow compartment spaces.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 3.7 Watts (max)

Output (Forward) Voltage Range: 10-60VDC Class 2 Compliant

Output Power: 12 Watts (Constant)

Output Current Range: 1.2A (@10VDC) - 0.2A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

**Operating Temp:** 0° to 55°C

Warranty: 5-year

Dimensions: 24.17 x 1.2 x 1.2 in. (mounting center 23.78 in.)

Weight: 3.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Auto-Sense Class 2 Compatible with 10-60VDC LED Designs**
- **Slim Profile Enclosure**

15W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	1500 lumens	**1500 lumens**
	110 lm/W	1650 lumens	**1650 lumens**
	120 lm/W	1800 lumens	**1800 lumens**
	130 lm/W	1950 lumens	**1950 lumens**
	140 lm/W	2100 lumens	**2100 lumens**

Maximum Constant Power

IOTA 15W to 20W emergency drivers deliver impressive lumen performance for elevated fixtures, raised ceilings, and larger egress spaces.

18W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	1800 lumens	**1800 lumens**
	110 lm/W	1980 lumens	**1980 lumens**
	120 lm/W	2160 lumens	**2160 lumens**
	130 lm/W	2340 lumens	**2340 lumens**
	140 lm/W	2520 lumens	**2520 lumens**

20W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	2000 lumens	**2000 lumens**
	110 lm/W	2200 lumens	**2200 lumens**
	120 lm/W	2400 lumens	**2400 lumens**
	130 lm/W	2600 lumens	**2600 lumens**
	140 lm/W	2800 lumens	**2800 lumens**

ILBLP CP15 HE SD

The ILBLP CP15 provides **15W** of emergency power in a low-profile enclosure with or without flexible conduit. Includes Self-Diagnostics.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 0.065A (max)

Output (Forward) Voltage Range: 20-55VDC Class 2 Compliant

Output Power: 15 Watts (Constant)

Output Current Range: 0.75A (@20VDC) - 0.27A (@55VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate, 24 Hour Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 14.68 x 2.34 x 1.18 in. (mounting center 14.12 x 1.1 in.)

Weight: 2.25 lbs (no flex), 3.25 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Advanced Lithium Design for Reduced Size and Weight**
- **Auto-Sense Class 2 Compatible with 20-55VDC LED Designs**
- **Self-Diagnostics Included**
- **Features AC Activate for simplified Installation**
- **Available in Different Mounting Configurations**

ILBLP CP15 HE SD N

The ILBLP CP15 HE SD N delivers **15W** constant power output in a narrow low-profile enclosure with hardwire connections. Includes Self-Diagnostics.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 0.11A (max)

Output (Forward) Voltage Range: 20-55VDC Class 2 Compliant

Output Power: 15 Watts (Constant)

Output Current Range: 0.75A (@20VDC) - 0.27A (@55VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate, 24 Hour Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 22.0 x 1.18 x 1.18 in. (mounting center 21.5 in.)

Weight: 2.0 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Advanced Lithium Design for Reduced Size and Weight**
- **Auto-Sense Class 2 Compatible with 20-55VDC LED Designs**
- **Self-Diagnostics Included**
- **Features AC Activate for simplified Installation**
- **Slim Profile Enclosure**

ILB CP18 CW

The ILB CP18 CW features an external extended temperature battery system to provide 18W constant power for outdoor, **cold-weather**, IP-rated fixtures.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 65mA (max)

Output (Forward) Voltage Range: 20-58VDC Class 2 Compliant

Output Power: 18 Watts (Constant)

Output Current Range: 0.9A (@20VDC) - 0.31A (@58VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp, maintenance-free Sealed Lead Acid, 24 Hr Recharge

Operating Temp: -20° to 55°C

Warranty: 5-year

Dimensions: (electronics) 9.4 x 1.05 x 2.2 in. (single battery) 3.54 x 4.21 x 2.76 in.

Weight: 6.0 lbs

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Suitable for Extended Temperature Ranges**
- **Auto-Sense Class 2 Compatible with 20-58VDC LED Designs**
- **Single or Dual Battery Models available**

ILB CP20 HE / HE SD

The ILB CP20 offers **20W** constant power performance for increased emergency output. Ideal for high-bay or elevated fixtures Self-Diagnostic model available.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 5.5 Watts (max)

Output (Forward) Voltage Range: 20-60VDC Class 2 Compliant

Output Power: 20 Watts (Constant)

Output Current Range: 1.0A (@20VDC) - 0.3A (@60VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 17.75 x 2.5 x 2.375 in. (mounting center 12.75 in.)

Weight: 5.7 lbs (single flex), 6.0 lbs (dual flex)

Certifications: UL 924 Listed for U.S. and Canada. Class 2 Compliant to UL 1310. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- **Auto-Sense Class 2 Compatible with 20-60VDC LED Designs**
- **Available in Single Flex or Dual Flex Configurations**
- **Self-Diagnostic Model Available**

Emergency Solutions for Non-Class 2 LEDs

IOTA "HV" solutions deliver a higher forward voltage for operating non-Class 2 luminaires (>60VDC.) Depending on the ILB model, "HV" units provide emergency options for LED voltages between 50 to 250VDC.

20W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	2000 lumens	2000 lumens
	110 lm/W	2200 lumens	2200 lumens
	120 lm/W	2400 lumens	2400 lumens
	130 lm/W	2600 lumens	2600 lumens
	140 lm/W	2800 lumens	2800 lumens

30W Performance	Fixture Efficacy	Minute 1	Minute 90
	100 lm/W	3000 lumens	3000 lumens
	110 lm/W	3300 lumens	3300 lumens
	120 lm/W	3600 lumens	3600 lumens
	130 lm/W	3900 lumens	3900 lumens
	140 lm/W	4200 lumens	4200 lumens

High Voltage Output "HV" Emergency Drivers for Non-Class 2 Systems (50-250VDC)

ILB CP20 HE HV

The ILB CP20 offers **20W** constant power performance for non-class 2 **50-200VDC** systems. Ideal for high-bay or elevated fixtures.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 5.5 Watts (max)

Output (Forward) Voltage Range: Non-Class 2 50-200VDC

Output Power: 20 Watts (Constant)

Output Current Range: 0.4A (@50VDC) - 0.1A (@200VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 17.75 x 2.5 x 2.375 in. (mounting center 12.75 in.)

Weight: 5.7 lbs (single flex), 6.0 lbs (dual flex)

Certifications: UL 924 Listed for U.S. and Canada. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- Auto-Sense High-Voltage Output 50-200VDC
- Available in Single Flex or Dual Flex Configurations

ILBLP CP20 HE SD HV

The ILB CP20 offers **20W** constant power performance for non-class 2 **55-200VDC** systems. Features lithium design for reduced size and weight and includes self-diagnostics.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 0.05A (max)

Output (Forward) Voltage Range: Non-Class 2 55-200VDC

Output Power: 20 Watts (Constant)

Output Current Range: 0.363A (@55VDC) - 0.1A (@200VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate 24 Hr Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 15.17 x 2.26 x 2.05 in.

Weight: 3.6 lbs (single flex), 4.8 lbs (dual flex)

Certifications: UL 924 Listed for U.S. and Canada. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- Auto-Sense High-Voltage Output 55-200VDC
- Advanced Lithium Design for Reduced Size and Weight
- Available in Single Flex or Dual Flex Configurations
- Self-Diagnostics Included
- Features AC Activate for simplified Installation

ILBLP CP30 HE SD HV

The ILB CP30 offers **30W** constant power performance for non-class 2 **55-250VDC** systems. Features lithium design for reduced size and weight and includes self-diagnostics.

Input Voltage: 120-277VAC, 50-60Hz

Input Rating: 0.055A (max)

Output (Forward) Voltage Range: Non-Class 2 55-250VDC

Output Power: 30 Watts (Constant)

Output Current Range: 0.545A (@55VDC) - 0.12A (@200VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate 24 Hr Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 17.81 x 2.26 x 2.05 in.

Weight: 4.4 lbs (single flex), 5.5 lbs (dual flex)

Certifications: UL 924 Listed for U.S. and Canada. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

- Auto-Sense High-Voltage Output 55-250VDC
- Advanced Lithium Design for Reduced Size and Weight
- Available in Single Flex or Dual Flex Configurations
- Self-Diagnostics Included
- Features AC Activate for simplified Installation

347VAC to 480VAC Input Solutions

IOTA ILBHI Emergency Drivers accept an input voltage between 347-480VAC for both Class 2 and non-Class 2 luminaires. The 347-480VAC input eliminates the need for step-down transformers for your emergency driver!

10W Performance

Efficacy	Minute 1	Minute 90
110 lm/W	1100 lumens	3300 lumens
120 lm/W	1200 lumens	3600 lumens
130 lm/W	1300 lumens	3900 lumens
140 lm/W	1400 lumens	4200 lumens

15W Performance

Efficacy	Minute 1	Minute 90
110 lm/W	1650 lumens	3300 lumens
120 lm/W	1800 lumens	3600 lumens
130 lm/W	1950 lumens	3900 lumens
140 lm/W	2100 lumens	4200 lumens

20W Performance

Efficacy	Minute 1	Minute 90
110 lm/W	2200 lumens	3300 lumens
120 lm/W	2400 lumens	3600 lumens
130 lm/W	2600 lumens	3900 lumens
140 lm/W	2800 lumens	4200 lumens

30W Performance

Efficacy	Minute 1	Minute 90
110 lm/W	3300 lumens	3300 lumens
120 lm/W	3600 lumens	3600 lumens
130 lm/W	3900 lumens	3900 lumens
140 lm/W	4200 lumens	4200 lumens

Class 2 Output*

High Voltage Output

ILBHI CP10 HE SD

The ILBHI CP10 provides **10W** emergency performance for **15-55VDC** LEDs operating on a 347-480VAC supply. Self-Diagnostics included.

Input Voltage: 347-480VAC, 50/60Hz

Input Rating: 15.3mA (max)

Output (Forward) Voltage Range: 15-55VDC

Output Power: 10 Watts (Constant)

Output Current Range: 0.18A (@55VDC) - 0.67A (@15VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate 24 Hr Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 13.14 x 2.26 x 1.12 in. (mounting center 12.7 in.)

Weight: 1.65 lbs (no flex), 2.55 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. CSA C22.2 No. 141. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ILBHI CP15 HE SD

The ILBHI CP20 provides **15W** emergency performance for **20-55VDC** LEDs operating on a 347-480VAC supply. Self-Diagnostics included.

Input Voltage: 347-480VAC, 50/60Hz

Input Rating: 16.1mA (max)

Output (Forward) Voltage Range: 20-55VDC

Output Power: 15 Watts (Constant)

Output Current Range: 0.27A (@55VDC) - 0.75A (@20VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate 24 Hr Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 15.7 x 2.26 x 1.12 in. (mounting center 15.26 in.)

Weight: 2.35 lbs (no flex), 3.05 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. CSA C22.2 No. 141. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ILBHI CP20 HE SD HV

The ILBHI CP20 HV provides **20W** emergency performance for **55-200VDC** LEDs operating on a 347-480VAC supply. Self-Diagnostics included.

Input Voltage: 347-480VAC, 60Hz

Input Rating: 0.015A (max)

Output (Forward) Voltage Range: 55-200VDC

Output Power: 20 Watts (Constant)

Output Current Range: 0.1A (@200VDC) - 0.363A (@55VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate 24 Hr Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 10.29 x 4.45 x 2.04 in. (mounting center 9.9 in.)

Weight: 4.6 lbs (no flex), 5.0 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. CSA C22.2 No. 141. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ILBHI CP30 HE SD HV

The ILBHI CP30 HV provides **30W** emergency performance for **55-250VDC** LEDs operating on a 347-480VAC supply. Self-Diagnostics included.

Input Voltage: 347-480VAC, 60Hz

Input Rating: 0.022A (max)

Output (Forward) Voltage Range: 55-250VDC

Output Power: 30 Watts (Constant)

Output Current Range: 0.12A (@250VDC) - 0.545A (@55VDC)

Emergency Operation: 90 minutes

Battery: Hi-Temp Lithium Iron-Phosphate 24 Hr Recharge with 5-7 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 10.29 x 4.45 x 2.04 in. (mounting center 9.9 in.)

Weight: 4.85 lbs (no flex), 5.15 lbs (w/ flex)

Certifications: UL 924 Listed for U.S. and Canada. CSA C22.2 No. 141. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

High Input Voltage of 347V-480V

Advanced Lithium Design for Reduced Size and Weight

Auto-Sense Class 2 Output 15-55VDC

Available in Different Mounting Configurations

Self-Diagnostics Included

Features AC Activate for simplified Installation

High Input Voltage of 347V-480V

Advanced Lithium Design for Reduced Size and Weight

Auto-Sense Class 2 Output 20-55VDC

Available in Different Mounting Configurations

Self-Diagnostics Included

Features AC Activate for simplified Installation

High Input Voltage of 347V-480V

Advanced Lithium Design for Reduced Size and Weight

Auto-Sense High-Voltage Output 55-200VDC

Available in Different Mounting Configurations

Self-Diagnostics Included

Features AC Activate for simplified Installation

High Input Voltage of 347V-480V

Advanced Lithium Design for Reduced Size and Weight

Auto-Sense High-Voltage Output 55-250VDC

Available in Different Mounting Configurations

Self-Diagnostics Included

Features AC Activate for simplified Installation

*Available second quarter of 2021

Performance Reference

CP
Lumen Output Chart

IOTA's patented Constant Power design provides the same wattage to the LED array for the entire emergency runtime, resulting in a constant level of illumination during the entire emergency runtime. To find the optimal wattage ILB CP unit for your luminaire, simply multiply the luminaire efficacy with the wattage output of the ILB CP emergency driver...or use the ILB CP Lumen Reference Chart to the right to see your available IOTA emergency driver options to find options for your desired lumen output.

Desired Lumen Output

Luminaire Efficacy (lm/w)	400	500	600	700	800	900	1000
80	CP05	CP07	CP08	CP10	CP10	CP12	CP15
90	CP05	CP07	CP07	CP08	CP10	CP10	CP12
100	CP05	CP05	CP07	CP07	CP08	CP10	CP10
110	CP05	CP05	CP05	CP07	CP08	CP10	CP10
120	CP05	CP05	CP05	CP07	CP07	CP08	CP10
130	CP05	CP05	CP05	CP07	CP07	CP07	CP08
140	CP05	CP05	CP05	CP05	CP07	CP07	CP08
150	CP05	CP05	CP05	CP05	CP07	CP07	CP07
160	CP05	CP05	CP05	CP05	CP05	CP07	CP07
170	CP05	CP05	CP05	CP05	CP05	CP07	CP07
180	CP05	CP05	CP05	CP05	CP05	CP05	CP07

CP05 - 5-Watt   **CP07 - 7-Watt**   **CP08 - 8-Watt**

Calculating Specific Lumen Performance

ILB CP Constant Power performance makes it easy to determine the actual lumen output. To calculate lumen performance, multiple your luminaire's published efficacy (lumens per watt) by the output wattage of the IOTA ILB emergency driver.

Formula: **L/W   x   CP Wattage   = EM Lumens**

Example: **119   x   12   = 1428 Lumens**

Insert indicated efficacy from luminaire specification...

Insert the wattage of your IOTA ILB CP unit...

and calculate!

With Constant Power, the final lumen calculation is the full lumen value during Minute 1 through Minute 90 of the emergency runtime. Therefore, it is not necessary to purchase a higher wattage unit to account for diminishing light output (ie. specify a 7-watt emergency driver to ensure it is delivering 5 watts at the end of the 90 minute runtime.)

Constant Power provides useful advantages over constant current emergency driver options. Power (or wattage) is a measure of *volts* multiplied by *amperage*. Every LED array requires a specific voltage in order to illuminate (which can vary significantly between board designs.) Since the LED dictates the operating voltage, the resulting wattage or current must adjust. With constant current drivers, the current remains fixed, forcing the wattage to adjust. Wattage is what determines lumen output, so if the wattage varies, so will your light output. *IOTA Constant Power emergency drivers adjust the operating current, so that the wattage - and light output - never changes from spec, regardless of the LED component design.*

Patented Constant Power Design

Driver Output

0   50   100   150   200
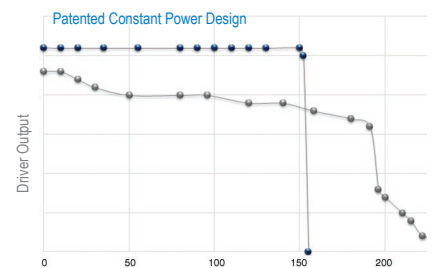
Auto-Sense: A Simpler Way to Meet Forward Voltage Requirements

IOTA's innovative Auto-Sense design allows the emergency driver to detect the required forward voltage needed to operate your fixture's load. With a wide voltage range, IOTA emergency drivers allow confident compatibility with most luminaire designs. IOTA emergency drivers are offered with two Auto-Sense ranges: 10-60VDC for Class 2 luminaires and 50-250VDC options for non-Class 2 luminaires.

12VDC Luminaire

36VDC Luminaire

54VDC Luminaire

Desired Lumen Output

1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200 to 3600*
CP15	CP15	CP20	CP20	CP20	CP20	n/a	n/a	n/a	n/a	n/a	n/a
CP15	CP15	CP15	CP20	CP20	CP20	CP20	CP20	n/a	n/a	n/a	n/a
CP12	CP12	CP15	CP15	CP15	CP20	CP20	CP20	CP20	CP20	n/a	n/a
CP10	CP12	CP12	CP15	CP15	CP15	CP20	CP20	CP20	CP20	CP20	CP20
CP10	CP10	CP12	CP12	CP15	CP15	CP15	CP15	CP20	CP20	CP20	CP20
CP10	CP10	CP10	CP12	CP12	CP15	CP15	CP15	CP15	CP20	CP20	CP20
CP08	CP10	CP10	CP10	CP12	CP12	CP15	CP15	CP15	CP15	CP15	CP20
CP08	CP08	CP10	CP10	CP10	CP12	CP12	CP12	CP15	CP15	CP15	CP15
CP07	CP08	CP10	CP10	CP10	CP10	CP12	CP12	CP12	CP15	CP15	CP15
CP07	CP08	CP08	CP10	CP10	CP10	CP10	CP12	CP12	CP12	CP15	CP15
CP07	CP07	CP08	CP08	CP10	CP10	CP10	CP10	CP12	CP12	CP12	CP15

CP10 - 10-Watt **CP12 - 12-Watt** **CP15 - 15-Watt** **CP20 - 20-Watt**

*Options shown are for 2200 lumen levels. For lumen values above 2200, multiply fixture efficacy by 20 to determine output levels of CP20 model.

Available Product Features..

Low Profile Designs

IOTA Low Profile Designs use advanced lithium Iron-Phosphate (LiFePO$_4$) battery technology to achieve significant reductions in both weight and size without compromising the emergency performance. Low Profile also include self-diagnostics and high-efficiency performance for minimal power consumption.

Self-Diagnostics

Self-Diagnostic ("SD") models automatically conduct the monthly and annual tests required by the Life Safety Code and communicate diagnostic issues via the flashing indicator light. Self-Diagnostic units minimize the labor involved in maintaining code-compliance by reducing the monthly testing process to a visual inspection of the unit only.

AC Activate

AC Activate provides simpler installation by eliminating the need for manual connection of the battery during initial install. Once initially connected to AC power, the unit automatically activates the charging circuits without manual connections needing to be made when the emergency-equipped fixture is installed.

Additional Design Advantages...

Surge Protection

Repeated exposure to electrical surges (transients) has a detrimental effect on electrical components, resulting in shortened product life. IOTA safeguards against premature failure of critical Life Safety equipment by designing and testing our emergency LED drivers to withstand extensive electrical transients per ANSI/EEE C62.41.2-2002

Thermal Performance

Lifespan of electronic equipment is reduced by half for every 10°C above normal ambient temperature. Having just one component over-stressed by excessive temperatures within the fixture or ceiling space jeopardizes Life Safety functionality. Careful engineering goes into IOTA emergency drivers for optimal performance in high-temperature, high-humidity conditions.

Responsible Design

IOTA emergency drivers are designed and manufactured in compliance with adopted RoHS standards. Every effort is taken to minimize environmental impact by restricting the presence of specified chemicals and substances and by utilizing quality-driven and verified components that support both our commitment to the environment and life safety product performance.

Typical Installation

LENS

TBTS

CHANNEL COVER
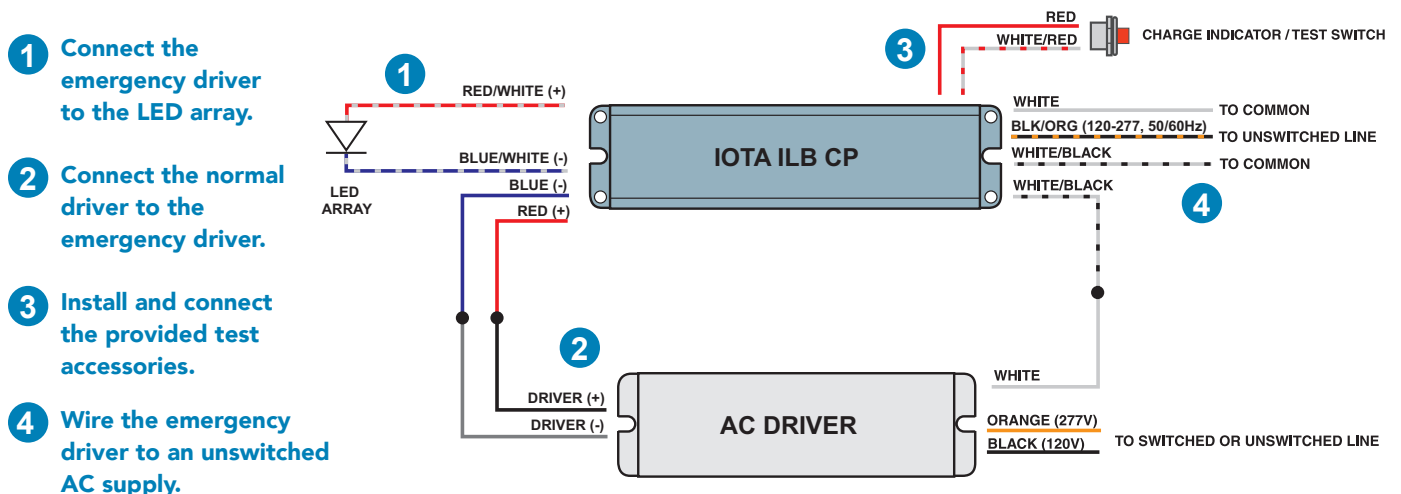
NORMAL DRIVER

EMERGENCY DRIVER

LED ARRAY
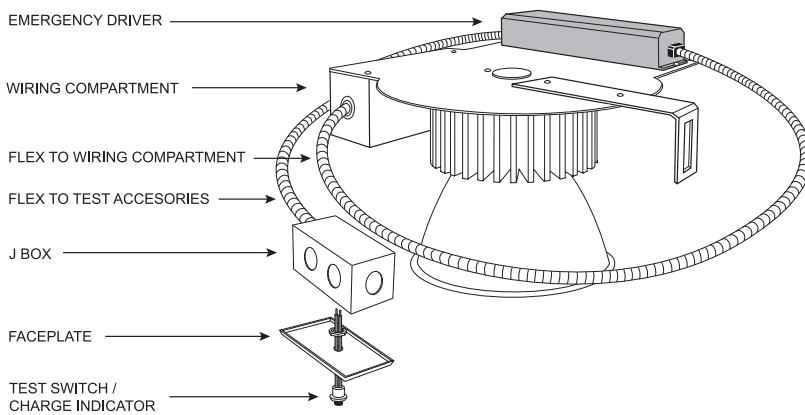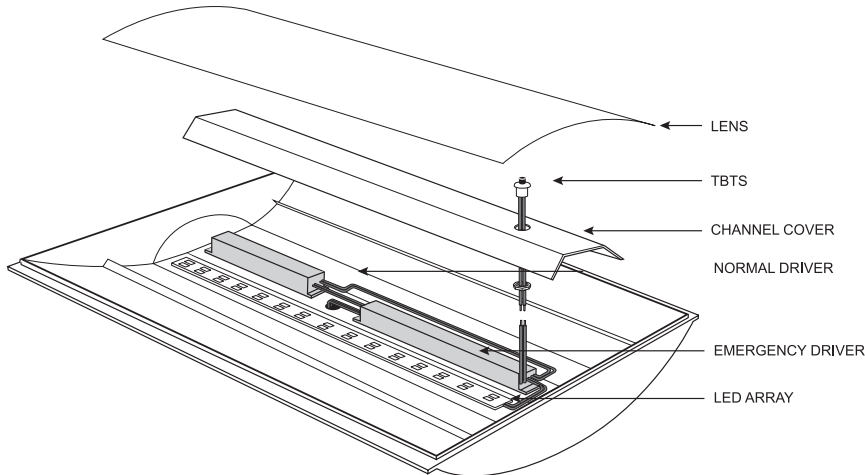
IOTA Emergency Drivers are designed for internal or external installation based on the requirements of the fixture type. For installation *within* the fixture, connections are made in the channel space and the test switch / charge indicator is installed for visibility behind the fixture lens. If the channel space does not permit installation of an emergency driver, the unit can be mounted on top of the fixture with wiring routed into the channel space through the access hole. A top mount cover accessory is available to cover the exposed wiring from the emergency unit entering the fixture.

For downlight fixtures, an assortment of flexible conduit configurations allow for running wiring to the fixture's electronics compartment (see opposite page for conduit options.) Test components are then installed next to the fixture or within the reflector as desired.

EMERGENCY DRIVER

WIRING COMPARTMENT

FLEX TO WIRING COMPARTMENT

FLEX TO TEST ACCESORIES

J BOX

FACEPLATE

TEST SWITCH / CHARGE INDICATOR

Additionally, emergency drivers can be mounted remotely up to 50 feet if needed. Refer to individual product specifications for allowable remote distances per model, as well as a selection of useful mounting accessories to accommodate different installation scenarios.

Wiring

The ILB CP unit electrically exists between the normal AC driver and LED load. The emergency unit supplies power to the LED array when normal power is lost to the AC driver. The illustration below shows the basic steps to connecting the emergency driver (wire colors may vary depending on the specific IOTA model.)

1 **Connect the emergency driver to the LED array.**

2 **Connect the normal driver to the emergency driver.**

3 **Install and connect the provided test accessories.**

4 **Wire the emergency driver to an unswitched AC supply.**

RED/WHITE (+)
BLUE/WHITE (-)
BLUE (-)
RED (+)
LED ARRAY

IOTA ILB CP

RED
WHITE/RED
CHARGE INDICATOR / TEST SWITCH

WHITE — TO COMMON
BLK/ORG (120-277, 50/60Hz) — TO UNSWITCHED LINE
WHITE/BLACK — TO COMMON
WHITE/BLACK

DRIVER (+)
DRIVER (-)
AC DRIVER

WHITE
ORANGE (277V)
BLACK (120V) — TO SWITCHED OR UNSWITCHED LINE

Mounting Configurations

IOTA Emergency Drivers are offered in several mounting configurations in order to meet the requirements of the fixture. Note that some configurations may not be available with specific emergency driver models. Refer to the individual product specification sheet at **www.iotaengineering.com** for details on available configurations per model. A selection of mounting accessories is also available to facilitate specific installation scenarios.

A **Dual Flex**

Provides dual flex for wiring to both the fixture or driver compartment and test accessories.

"A" Configuration
FLEXIBLE CONDUIT TO FIXTURE (24")
FLEXIBLE CONDUIT TO TEST ACCESSORIES (24")
FLEX TO TEST ACCESSORY (36")
ILB CP20 HE A
FLEX TO FIXTURE (36")
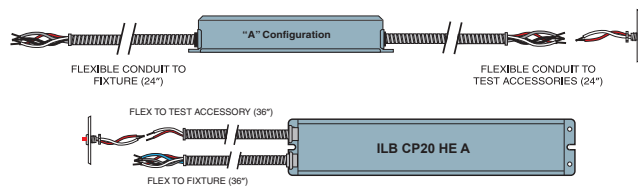
B **Integral Non-Flex**

Allows for integral installation within the driver compartment. May also be mounted atop the fixture when used with a TMK cover accessory.

"B" Configuration
WIRING TO FIXTURE AND TEST ACCESSORIES

J **Single Flex Junction Box Mount**

Mounts to the junction box and provides flexible conduit for remote mounting of the test accessories.

"J" Configuration
FLEXIBLE CONDUIT TO TEST ACCESSORIES (36")
WIRING TO FIXTURE
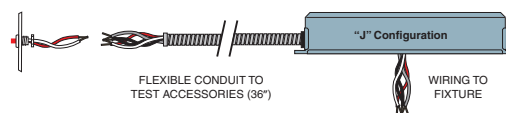
R **Dual Flex w/ Reflector-Mount TBTS**

Provides dual flex for wiring to the fixture. The TBTS test accessory hardware installs directly within the reflector. (Recommended for OEM installation only.)

"R" Configuration
FLEXIBLE CONDUIT TO TEST ACCESSORIES (24")
FLEXIBLE CONDUIT TO FIXTURE (24")
FLEX TO FIXTURE (36")
ILB CP20 HE R
FLEX TO TEST ACCESSORY (36")
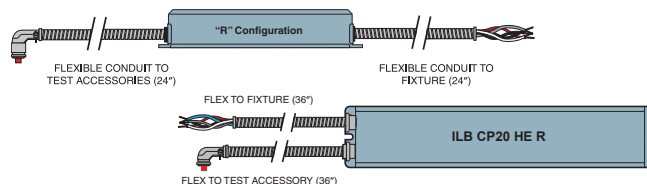
RJ **Single Flex w/ Reflector-Mount TBTS**

Mounts to the junction box. The TBTS test accessory hardware installs directly within the reflector. (Recommended for OEM installation only.)

"RJ" Configuration
FLEXIBLE CONDUIT WITH TEST ACCESSORY (24")
WIRING TO FIXTURE
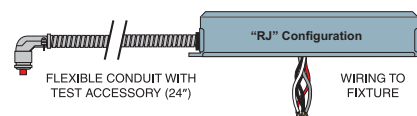
S **Single Flex (20W unit only)**

Single conduit that routes all wiring directly to the fixture channel space or junction box.

FLEX TO FIXTURE AND TEST ACCESSORY (36")
ILB CP20 HE S

TM **Top-Mount Non-Flex**

Top-mounting option for running wires directly into the driver compartment. Test accessories are then installed within the fixture.

"TM" Configuration
WIRING TO FIXTURE AND TEST ACCESSORIES
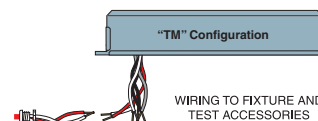
XB **Integral Non-Flex with Push-In Connectors**

The XB provides an integral no-flex design with integrated push-in ports for quicker connection to the LED array, test components, and AC power inputs (select models only.)

"XB" Configuration
WIRING TO FIXTURE AND TEST ACCESSORIES
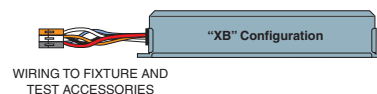
N **Narrow Profile**

Narrow profile design with hardwire connections for integral installation within compartments with tight space restrictions.

"N" Configuration
WIRING TO FIXTURE AND TEST ACCESSORIES

NP **Narrow Profile w/ Poke-In Terminals**

Narrow profile with poke-in connection terminals for integral installation within compartments with tight space restrictions. (10W only)

"NP" Configuration
POKE-IN TERMINAL FOR CONNECTIONS TO FIXTURE AND TEST ACCESSORIES
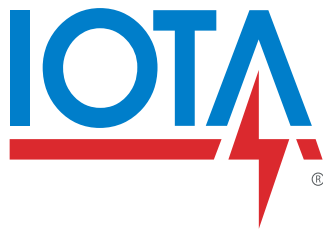
Emergency Ballasts for Fluorescent and LED Retrofit

IOTA Emergency Ballasts continue to set the standard both for fluorescent emergency solutions as well as today's leading LED retrofit tube lamp replacements.

IOTA emergency ballasts feature forward-thinking design that helps ensure system compatibility with lamp technology, AC ballast circuitry features, physical fixture requirements, and application and performance criteria.
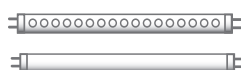
AC output design on select units allows for operation of low-mercury content amalgam fluorescents and many LED retrofit tube replacements types.

Solutions for operating T5 through T8 linear lamps or 4-pin compact lamps and a full range of lamp lengths and wattages.

High lumen output, damp location, enclosed and gasketed fixtures, parallel operation, and self-diagnostic options.

Enhanced protection features for optimal performance with the latest AC ballast technology. Time Delay and Open Circuit Isolation allows the emergency ballast to operate seamlessly with 'end-of-life' and lamp removal safeguards.

UL Listed for both Field and Factory Installation in U.S. and Canada

Understanding Lamp Technology

IOTA Emergency Ballasts are designed for confident performance with many common tube lamp designs. Knowing the nature of fluorescent and LED lamps is important in selecting the proper emergency solution. Refer to the information below to determine the lamp designs used in your application and which IOTA emergency solution is needed.

Low-Mercury Content Amalgam Lamps

Low-mercury content amalgam lamps introduced a new fluorescent technology that significantly reduced the levels of mercury used within the lamp, lessening the environmental impact caused by fluorescent lamps at end-of-life. The advent of this lamp technology required a unique emergency ballast that could operate with the sensitive design of the lamp.

Solution: AC Output Performance

IOTA's Series AC emergency ballasts were designed specifically to deliver compatibility with these newer environmentally-friendly lamps. When using 'green' lamp designs, it is recommended that you use AC output emergency ballasts, as prolonged exposure to DC current (typical in common emergency ballasts) can have a detrimental effect on the lamp's normal operation.

The innovative AC output design of AC Series emergency ballasts also offers compatibility with certain LED tube lamp designs. Many IOTA AC Series ballasts have been tested and UL Listed as compatible emergency solutions for several manufacturer LED retrofit lamp designs. See opposite page for details on LED lamp technology and compatible emergency ballast solutions.

SERIES AC
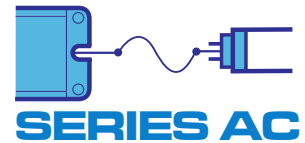
End-of-Lamp-Life Circuitry

End of Lamp Life circuitry within normal AC ballasts is designed to allow the ballast to recognize when a fluorescent lamp is no longer operable. However, the End-of-Lamp-Life circuitry can mistakenly activate (ie. not provide AC voltage) when power switches from an emergency battery pack to the AC supply.

Solution: Time Delay Enhancement

IOTA emergency battery packs provide a brief delay that allows the AC ballast to verify that the lamp is still functioning, eliminating conflicts with testing and operation of the emergency battery pack. Time Delay Enhancement is a standard design feature on all IOTA Series D and Series AC emergency ballasts.


SERIES D
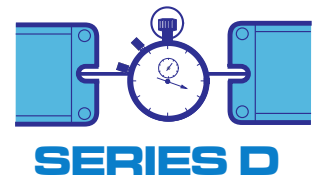
Lamp Replacement

It is not unusual for facility personnel to replace burnt-out fluorescent lamps while the fixture is still energized. However, when power is supplied to a fixture where no lamps are present, the resulting open circuit can cause damage to components in lesser-quality emergency ballasts within the fixture.

Solution: Open Circuit Isolation

IOTA emergency ballasts guard against the dangers of an open circuit caused when either the lamps are burned out or are being replaced. Open Circuit Isolation is a standard design feature on all IOTA Series D and Series AC emergency ballasts.

**SERIES D**
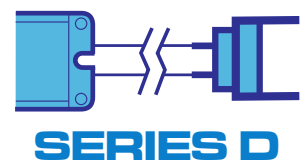
LED Retrofit Lamps

The innovation of LED tube lamp designs brought long-life, highly-efficient lighting options for existing fluorescent luminaires. However, these lamp types were designed for normal lighting operation and did not take emergency power sources into consideration. LED tube lamp designs may feature very different designs that affect the choice of emergency solution. Before selecting or utilizing an emergency ballast for your fluorescent lamp replacement, determine which type of LED retrofit solution you are using.

Type A - LED Tube Lamps (TLEDs)

LED Tube Lamps are linear, compact, or U-bent LED lights, also known as T-LEDs, which directly replace the fluorescent tubes in the fixture. These lamps convert the AC voltage coming from the fluorescent ballast to DC current to operate the lamp's LED arrays. These T-LEDs allow replacement of the original fluorescent tube without removing or re-wiring the existing AC fluorescent ballast.

Solution: Fluorescent Emergency Ballasts with AC Output

Since these types of lamps are looking for AC power to operate, they will require an **emergency ballast with AC output** to operate in the emergency mode. Since T-LED characteristics vary between manufacturer, IOTA has tested and UL Listed specific Series AC emergency ballasts to work with select T-LEDs from major LED tube manufacturers. Current UL Listed solutions are available at *https://www.iotaengineering.com/resources/emergency-solutions-for-led-retrofit*.
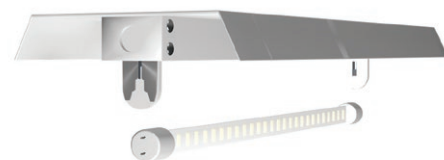
For Fluorescent Emergency Ballasts that are compatible with select T-LED designs, look for this icon next to the model name...

LED RETROFIT SOLUTION

Type B - LED Tube Lamps with Internal Drivers

LED Tube Lamps with Internal Drivers (may include downlight retrofit kits or linear LED lamps) feature built-in drivers that accept *AC line voltage* and replace both the existing fluorescent lamps *and* fluorescent ballast to convert the fixture to LED.

Solution: Emergency Inverter System

Since these LED Lamps are wired directly to the line voltage, an emergency battery pack cannot be introduced between the driver and the lamp. Therefore the emergency lighting solution must deliver line voltage to the LED lamps from an auxiliary supply. This can be done with a generator or an IOTA IIS Series **emergency inverter.** A single IIS Inverter will be capable of running multiple fixtures, regardless of whether they are using LED retrofit lamps or traditional fluorescent tubes. For further details on IOTA IIS Inverter options, refer to Page 71.

LED Retrofit Kits

LED Retrofit Kits include LED tubes or board arrays paired to an LED Driver. The LED lamps and LED driver take the place of the fluorescent lamps and ballast within the fluorescent fixture.

Solution: Emergency LED Driver for Field Installation

When using a retrofit kit, the emergency lighting solution of choice is an **emergency LED driver suitable for field installation.** The emergency LED driver installs between the normal LED driver and LED tubes or arrays provided in the kit, and will operate the LEDs during a power loss situation. Many LED emergency drivers on the market today are UL Recognized Components for factory installation only and therefore are not typically acceptable for retrofit installation. **IOTA ILB CP LED Emergency Drivers** are UL Listed for field installation, are fully compatible with retrofit installations, and offer a full line of wattage and mounting styles. Full ILB CP Series details can be found on Page 35.
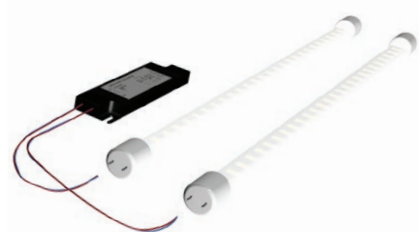
For Linear Lamp Designs

IOTA's linear fluorescent products provide practical solutions for most linear lamp type fixtures utilizing 2 to 8 ft linear fluorescent lamps

I 32

The I 32 provides a compact, practical emergency solution for standard ceiling height applications.

Input Voltage:
120/277VAC, 60Hz

Input Rating: 2.5 Watts

Lumen Output:
(1) lamp up to 500 lumens

Lamps Operated:
Most 2'-4' single, bipin T8 thru T12 and 28W T5 fluorescent lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 9.5 x 2.0 x 1.0 in. (mounting center 9.0 in.)

Weight: 1.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum and enclosed & gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 40

The I 40 provides 700 lumen output for **one lamp** in a standard profile enclosure.

Input Voltage:
120/277VAC, 60Hz

Input Rating: 3.5 Watts

Lumen Output:
(1) lamp up to 700 lumens

Lamps Operated:
Most 2'-4' single, bipin T8 thru T12 and 40W long compact lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 9.5 x 2.4 x 1.5 in. (mounting center 9.0 in.)

Weight: 2.4 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum, damp location, and enclosed & gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 48

The I 48 provides 700 lumen output for **one or two lamps** in a standard profile enclosure.

Input Voltage:
120/277VAC, 60Hz

Input Rating: 3.5 Watts

Lumen Output:
(1) 2'-8' lamp
(2) 2'-4' up to 700 lumens

Lamps Operated:
Most 2'-8' single, bipin T8 thru T12, HO, VHO fluorescent lamps incl. long compacts

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 9.5 x 2.4 x 1.5 in. (mounting center 9.0 in.)

Weight: 2.4 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum, damp location, and enclosed & gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 320

The I 320 delivers up to 1350 lumen performance in a reduced profile enclosure.

Input Voltage:
120/277VAC, 60Hz

Input Rating: 3.5 Watts

Lumen Output:
(1) lamp up to 1350 lumens

Lamps Operated:
Most 2'-4' single, bipin T8, 2'-4' 14W-54W T5, HO and VHO fluorescent lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 13.0 x 2.2 x 1.25 in. (mounting center 12.6 in.)

Weight: 2.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum, damp location, and enclosed and gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ISD 80

The ISD 80 provides automatic self-diagnostics and testing capability and 1100 lumen output for **linear** lamp types.

Input Voltage:
Universal 110-277VAC, 50/60Hz

Input Rating: 5 Watts (max)

Lumen Output:
(1) lamp up to 1100 lumens

Lamps Operated:
Most 2'-4' bipin T8 and T12 HO or VHO fluorescent lamps including long compact and 2'-4' 14W to 54W T5 lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 13.3 x 2.4 x 1.5 in. (mounting center 12.75 in.)

Weight: 3.6 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Reduced Profile Enclosure

Operates 8-ft Lamps

AC Output Design

Reduced Profile Enclosure

Automatically Conducts Monthly and Annual Tests

**AC Output Design**

Parallel Operation and Maximized Lumens

Increased emergency illumination and additional safety features are beneficial assets to projects such as municipal facilities, retirement communities, schools, and daycares. These IOTA units deliver unique advantages to critical emergency egress applications.

LED RETROFIT SOLUTION

LED RETROFIT SOLUTION
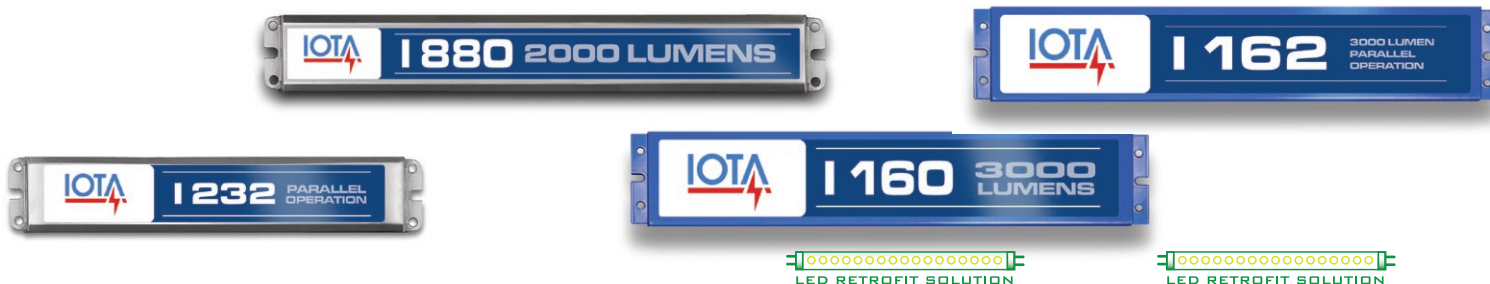
I 232

The I 232 provides **parallel lamp operation**, enabling the fixture to illuminate in the emergency mode even if one lamp in the series is inoperable.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 4 Watts

Lumen Output:
(2) lamps up to 1400 lumens
(700 lumens per lamp)

Lamps Operated:
(2) 2'-4' single, bipin T8 thru
T12 HO and VHO fluorescent
lamps in parallel

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 13.3 x 2.4 x 1.5 in. (mounting center 12.75 in.)

Weight: 3.6 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum and enclosed & gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 880

The I 880 provides significant **2000 lumens** emergency performance in an integral profile enclosure.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 4.5 Watts

Lumen Output:
(1) 2'-8' lamp or (2) 2'-4'
up to 2000 lumens

Lamps Operated:
Most 2'-8' single, bipin T8 thru T12, HO & VHO fluorescent lamps incl. long compacts, 2'-4' 28W & 54W T5

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 18.6 x 2.4 x 1.5 in. (mounting center 18.1 in.)

Weight: 4.4 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 160

The I 160 delivers a maximum lumen output of **3000 lumens** for more demanding emergency requirements.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 4.5 Watts

Lumen Output:
(1) 2'-8' lamp or (2) 17W, T8, 26W 4-pin
up to 3000 lumens

Lamps Operated:
Most 2'-4' single, bipin
T8 and T5 and 18 to 70W 4-pin
compact fluorescent lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 16.375 x 3.0 x 3.0 in. (mounting center 15.875 in.)

Weight: 7.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 162

The I 162 combines **3000 lumen** output with the advantages of **parallel lamp operation**.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 4.5 Watts

Lumen Output:
(2) 2'-4' lamps up to 3000 lumens
(1500 lumens per lamp)

Lamps Operated:
(2) 2'-4' single, bipin T8 thru
T12, 28W & 54W T5, 24W-50W
long compacts in parallel

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 16.375 x 3.0 x 3.0 in. (mounting center 15.875 in.)

Weight: 7.5 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Parallel Operation ensures illumination even if one lamp is inoperable

Integral Profile Design

High Lumen Output

AC Output Design

Parallel Operation ensures illumination even if one lamp is inoperable
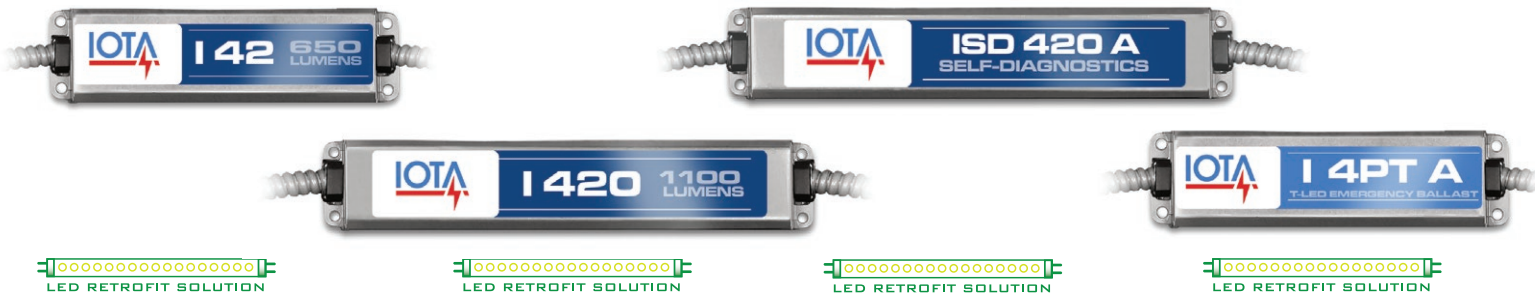
High Lumen Output

AC Output Design

For 4-Pin Compact Lamps

IOTA Emergency Ballasts for 4-Pin Compact lamps cover a wide range of lamp wattages, lumen preferences, and lamp designs, including select 4-pin LED retrofit lamps.

LED RETROFIT SOLUTION

LED RETROFIT SOLUTION

LED RETROFIT SOLUTION

LED RETROFIT SOLUTION

I 42

The I 42 is a practical solution for most 4-pin compact lamp applications.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 3.5 Watts

Lumen Output:
(1) lamp up to 650 lumens

Lamps Operated:
10W-42W 4-Pin Rapid Start Twin, Triple, Quad Tube, 2D, Straight Compacts & 18-36W Long Compacts

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 9.5 x 2.4 x 1.5 in. (mounting center 9.0 in.)

Weight: 4.4 lbs (flex), 2.5 lbs (no flex)

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum and enclosed & gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I 420

The I 420 provides increased emergency output for 4-pin lamp applications

Input Voltage: 120/277VAC, 60Hz

Input Rating: 3.5 Watts

Lumen Output:
(1) 10W-57W or (2) 10W-26W up to 1100 lumens

Lamps Operated:
10W-57W 4-Pin Rapid Start Twin, Triple, Quad Tube, 2D, Straight Compact Lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 13.3 x 2.4 x 1.5 in. (mounting center 12.75 in.)

Weight: 5.4 lbs (flex), 3.5 lbs (no flex)

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum, damp location, and enclosed & gasketed fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ISD 420 A

The ISD 420 A provides automatic self-diagnostics and 1100 lumen output for **4-pin compact** lamp types. Includes dual flexible conduit.

Input Voltage: Universal 110-277VAC, 50/60Hz
Input Rating: 5 Watts (max)

Lumen Output:
(1) lamp up to 1100 lumens

Lamps Operated:
13W-57W 4-pin Rapid Start compact lamps including Twin, Triple, Quad Tube, 2D, and Straight

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 13.3 x 2.4 x 1.5 in. (mounting center 12.75 in.)

Weight: 5.6 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

I4PT A

The I4PT A is specifically engineered for operating **4-pin T-LED** retrofit lamps. Includes dual flexible conduit.

Input Voltage: 120-277VAC, 50/60Hz
Input Rating: 20mA (max)

Lumen Output:
250-400 lumens

Lamps Operated:
Select 4-Pin LED retrofit replacement lamps.

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 55°C

Warranty: 5-year

Dimensions: 9.5 x 2.4 x 1.5 in. (mounting center 9.0 in.)

Weight: 3.0 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for plenum and damp location fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

AC Output Design

Different Mounting Configurations Available

AC Output Design

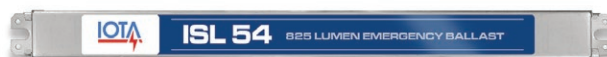**Different Mounting Configurations Available**

Automatically Conducts Monthly and Annual Tests

AC Output Design

ISL Series Slim Profile for T5 Designs

The ISL Series introduced narrow profile emergency battery designs to the lighting industry. Featuring a slim profile enclosure, the ISL Series is ideal for narrow T5 fixture designs with restrictive channel compartments.

IOTA **ISL 28** 500 LUMEN EMERGENCY BALLAST

IOTA **ISL 540** 1300 LUMEN EMERGENCY BALLAST

IOTA **ISL 54** 825 LUMEN EMERGENCY BALLAST

LED RETROFIT SOLUTION

LED RETROFIT SOLUTION

ISL28

The ISL 28 delivers **500 lumens** for 2-4 ft T5 lamps in a slim profile enclosure for fixtures with narrow channel spaces.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 2.5 Watts

Lumen Output:
(1) lamp up to 500 lumens

Lamps Operated:
Most 2'-4' 28W T5 and T8 linear fluorescent lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 14.2 x 1.18 x 1.15 in. (mounting center 13.7 in.)

Weight: 2.0 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ISL54

The ISL 54 delivers **825 lumens** for 2-4 ft T5 and long compact lamps in a slim profile enclosure for fixtures with narrow channel spaces.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 2.5 Watts

Lumen Output:
(1) lamp up to 825 lumens

Lamps Operated:
Most 2'-4' 14W to 54W T5 or 17W to 30W T6 and T8 lamps including HO and 36W-55W 4-pin long compact lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 17.5 x 1.18 x 1.15 in. (mounting center 17.0 in.)

Weight: 2.4 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

ISL540

The ISL 540 delivers **1300 lumens** for 2-4 ft T5 and long compact lamps in a slim profile enclosure for fixtures with narrow channel spaces.

Input Voltage: 120/277VAC, 60Hz

Input Rating: 3.5 Watts

Lumen Output:
(1) lamp up to 1300 lumens

Lamps Operated:
Most 2'-4' 14W to 54W T5 or 17W to 40W T8 lamps including HO and 36W-55W 4-pin long compact lamps

Emergency Operation: 90 minutes

Battery: Hi-Temp Nickel-Cadmium, 24 Hr Recharge with 7-10 Year Life

Operating Temp: 0° to 50°C

Warranty: 5-year

Dimensions: 21.5 x 1.18 x 1.15 in. (mounting center 21.0 in.)

Weight: 2.4 lbs

Certifications: UL 924 Listed for U.S. and Canada. Suitable for damp location, enclosed and gasketed, and plenum fixtures. Meets all NEC, IBC, Life Safety Code requirements for Emergency Lighting.

Slim Profile Enclosure
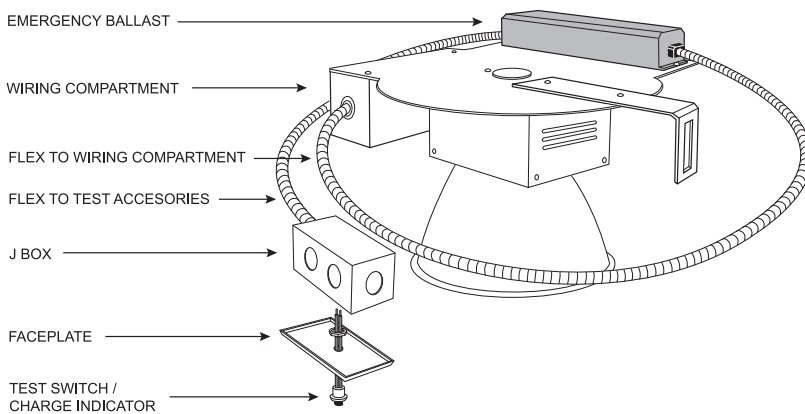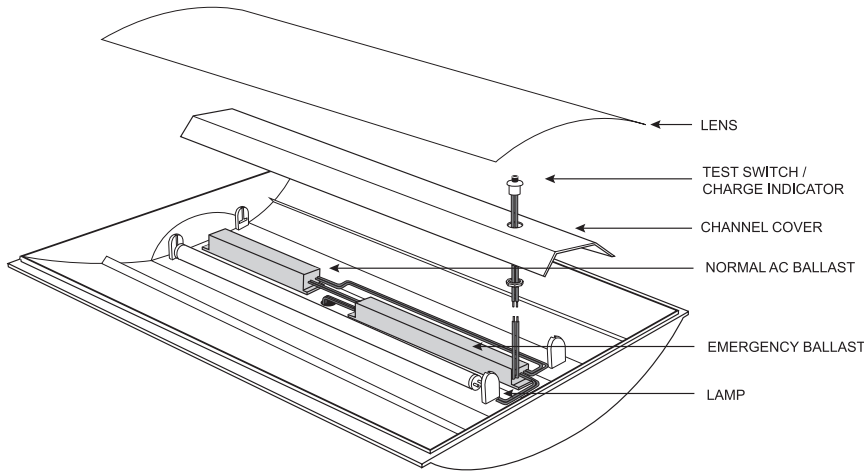
Slim Profile Enclosure

AC Output Design

Slim Profile Enclosure

AC Output Design

IOTA

Typical Installation

LENS
TEST SWITCH / CHARGE INDICATOR
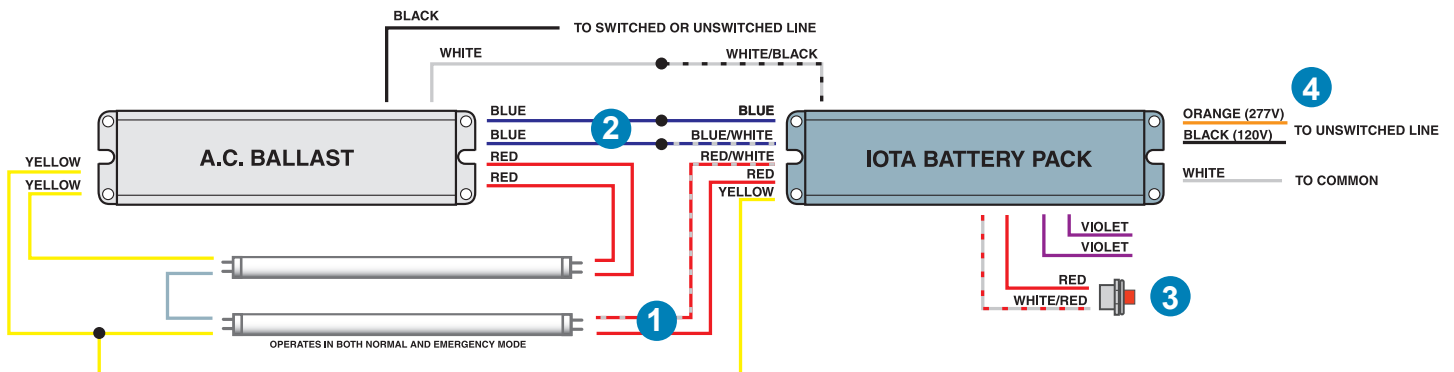CHANNEL COVER
NORMAL AC BALLAST
EMERGENCY BALLAST
LAMP

IOTA Emergency Ballasts are designed for internal or external installation based on the requirements of the fixture type. For installation within the fixture, connections are made in the channel space and the test switch / charge indicator is installed for visibility behind the fixture lens. If the channel space does not permit installation of an emergency ballast, the unit can be mounted on top of the fixture with wiring routed into the channel space through the access hole. A top mount cover accessory is available to cover the exposed wiring from the emergency unit entering the fixture.

EMERGENCY BALLAST
WIRING COMPARTMENT
FLEX TO WIRING COMPARTMENT
FLEX TO TEST ACCESORIES
J BOX
FACEPLATE
TEST SWITCH / CHARGE INDICATOR

For downlight fixtures, an assortment of flexible conduit configurations allow for running wiring from the emergency ballast to the fixture's electronics compartment (see opposite page for conduit options.) Test components are then installed next to the fixture or within the reflector as desired.

Additionally, emergency ballasts can be mounted remotely up to 50 ft, if needed. Refer to individual product specifications for allowable remote distances per model, as well as a selection of useful mounting accessories to accommodate different installation scenarios.

Wiring

The IOTA Emergency Ballast wires in conjunction with the normal AC ballast. The emergency unit supplies power to the desig-nated lamp when normal power is lost. The illustration below shows the basic steps to connecting the emergency ballast (wire connections and colors may vary depending on the AC ballast, number of lamps, and specific IOTA emergency ballast model. Refer to the emergency ballast installation manual for details on other fixture applications.)

BLACK
TO SWITCHED OR UNSWITCHED LINE
WHITE
WHITE/BLACK
BLUE — BLUE
BLUE — BLUE/WHITE
RED — RED/WHITE
RED — RED
YELLOW
A.C. BALLAST
YELLOW
YELLOW
IOTA BATTERY PACK
ORANGE (277V)
BLACK (120V) — TO UNSWITCHED LINE
WHITE — TO COMMON
VIOLET
VIOLET
RED
WHITE/RED
OPERATES IN BOTH NORMAL AND EMERGENCY MODE

1 Connect the emergency ballast to the lamp designated for emergency operation.

2 Connect the normal AC ballast to the emergency ballast.

3 Install and connect the provided test accessories.

**4** Wire the emergency ballast to an unswitched AC supply.

Mounting Configurations

IOTA Emergency Ballasts are offered in several mounting configurations in order to meet the requirements of the fixture. Note that some configurations may not be available with specific emergency ballast models. Refer to the individual product specification sheet at **www.iotaengineering.com** for details on available configurations per model. A selection of mounting accessories is also available to facilitate specific installation scenarios.
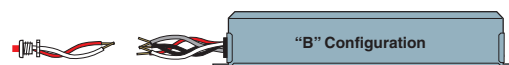
A **Dual Flex**
Provides dual flex for wiring to both the fixture or ballast compartment and test accessories.

"A" Configuration

FLEXIBLE CONDUIT TO FIXTURE (24″)   FLEXIBLE CONDUIT TO TEST ACCESSORIES (24″)
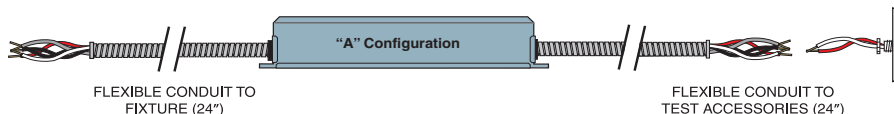
B **Integral Non-Flex**
Allows for integral installation within the ballast compartment. May also be mounted atop the fixture when used with a cover accessory (TMK).

WIRING TO FIXTURE AND TEST ACCESSORIES   "B" Configuration

J **Single Flex Junction Box Mount**
Mounts to the junction box and provides flexible conduit for remote mounting of the test accessories.

"J" Configuration

FLEXIBLE CONDUIT TO TEST ACCESSORIES (36″)   WIRING TO FIXTURE
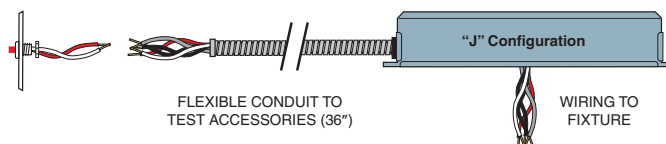
R **Dual Flex w/ Reflector-Mount Test Switch**
Provides dual flex for wiring to the fixture. The test accessory hardware installs directly within the reflector. (Recommended for OEM installation only.)

"R" Configuration

FLEXIBLE CONDUIT TO TEST ACCESSORIES (24″)   FLEXIBLE CONDUIT TO FIXTURE (24″)
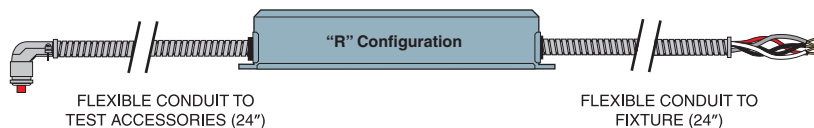
RJ **Single Flex w/ Reflector-Mount TBTS**
Mounts to the junction box. The test accessory hardware installs directly within the reflector. (Recommended for OEM installation only.)
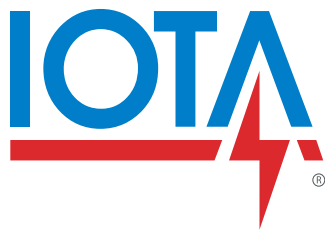
"RJ" Configuration

FLEXIBLE CONDUIT WITH TEST ACCESSORY (24″)   WIRING TO FIXTURE
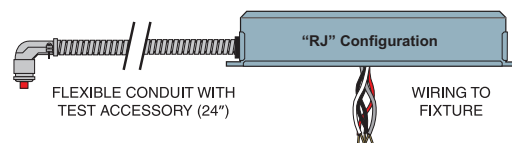
TM **Top-Mount Non-Flex**
Top-mounting option for running wires directly into the ballast compartment. Test accessories are then installed within the fixture.

"TM" Configuration

WIRING TO FIXTURE AND TEST ACCESSORIES
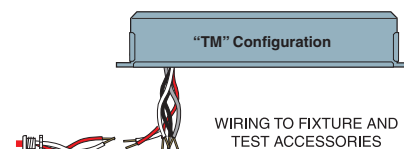
IIS Series Inverter Solutions

IOTA® IIS Inverter Systems offer emergency supply solutions for individual fixtures. IIS Inverters deliver full AC power to the emergency load during a loss of normal power, operating the fixture(s) at full light output just as they would perform under normal power conditions.

IIS Inverters are offered in a selection of micro-inverter options for applications up to 50 watts.

AC power supply enables full light output for most any fixture type.

Performance options such as inrush protection, or load de-rating add reliability and cost-saving benefits.

UL and cUL Listed models, CA Title 20, NEMA 4X, and OSHPD model selections

Micro Inverters

Micro Inverters are fixture-level solutions, providing AC emergency power and full light output to individual luminaires up to 50 watts.
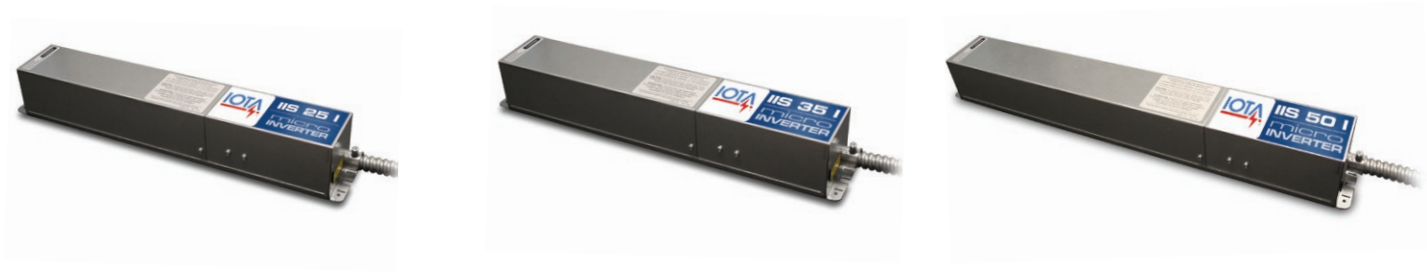
IIS 25

The IIS 25 delivers **25W** of 120/277VAC power for LED, fluorescent, and incandescent fixture types.

Input VAC: Dual 120/277Vac, 60Hz

Input Watts (bulk): 32 Watts

Output VAC: 120/277Vac, 60Hz. Slide Switch Selectable

Output Power: 25 Watts

Load Types: LED (per NEMA 410), fluorescent, incandescent

Emergency Operation: 90 min.

Operating Temp: 0° to 50° C

Battery: High-temp rechargeable, replaceable nickel-cadmium

Dimensions: 17.77" x 3.0" x 2.75" (mounting center 17.25")

Weight: 6.5 lbs

Warranty: 5-year

Certifications: UL 924 Listed for U.S. and Canada. CSA C22 No. 141 Unit Equipment for Emergency Lighting. Damp Location Rated. RoHS Compliant.

IIS 35

The IIS 35 delivers **35W** of 120/277VAC power for LED, fluorescent, and incandescent fixture types.

Input VAC: Dual 120/277Vac, 60Hz

Input Watts (bulk): 44 Watts

Output VAC: 120/277Vac, 60Hz. Slide Switch Selectable

Output Power: 35 Watts

Load Types: LED (per NEMA 410), fluorescent, incandescent

Emergency Operation: 90 min.

Operating Temp: 0° to 50° C

Battery: High-temp rechargeable, replaceable nickel-cadmium

Dimensions: 17.77" x 3.0" x 2.75" (mounting center 17.25")

Weight: 6.5 lbs

Warranty: 5-year

Certifications: UL 924 Listed for U.S. and Canada. CSA C22 No. 141 Unit Equipment for Emergency Lighting. Damp Location Rated. RoHS Compliant.

IIS 50

The IIS 50 delivers **50W** of 120/277VAC power for LED, fluorescent, and incandescent fixture types.

Input VAC: Dual 120/277Vac, 60Hz

Input Watts (bulk): 60 Watts

Output VAC: 120/277Vac, 60Hz. Slide Switch Selectable

Output Power: 50 Watts

Load Types: LED (per NEMA 410), fluorescent, incandescent

Emergency Operation: 90 min.

Operating Temp: 0° to 50° C

Battery: High-temp rechargeable, replaceable nickel-cadmium

Dimensions: 22.5" x 3.0" x 2.75" (mounting center 22.0")

Weight: 9.0 lbs

Warranty: 5-year

Certifications: UL 924 Listed for U.S. and Canada. CSA C22 No. 141 Unit Equipment for Emergency Lighting. Damp Location Rated. RoHS Compliant.

25W 25W Load Capability

IR Inrush Rated to NEMA 410 Standards

35W 35W Load Capability

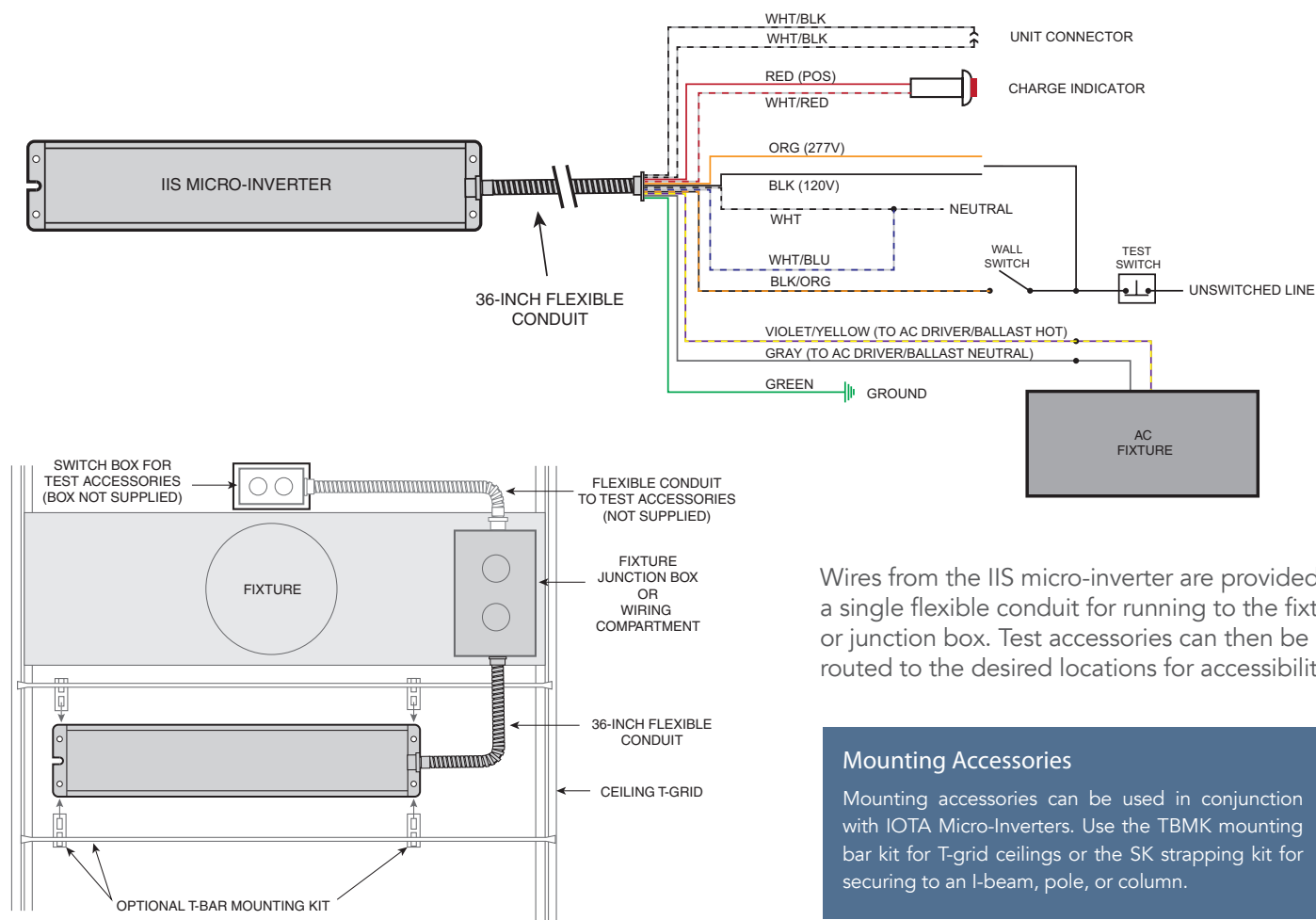IR Inrush Rated to NEMA 410 Standards

50W 50W Load Capability

IR Inrush Rated to NEMA 410 Standards

Typical Fixture-Level Wiring - 25W to 50W

Wires from the IIS micro-inverter are provided in a single flexible conduit for running to the fixture or junction box. Test accessories can then be routed to the desired locations for accessibility.

Mounting Accessories

Mounting accessories can be used in conjunction with IOTA Micro-Inverters. Use the TBMK mounting bar kit for T-grid ceilings or the SK strapping kit for securing to an I-beam, pole, or column.

Extending Runtimes

Some applications require a two hour minimum of emergency operation to meet FEMA requirements. While IOTA IIS Inverters are typically used for 90-minute run-times per the Life Safety Code, they can fulfill the FEMA requirement by balancing the load demand with the battery capacity. Refer to the chart on the right for sizing the IIS load to achieve two hour operation.

| IIS Model	90 Minute Capacity	120 Minute Capacity
IIS 25	25W	20W
IIS 35	35W	26W
IIS 50	50W	40W

Inrush Current

Inrush current is the maximum, instantaneous input current drawn from electrical devices when first turned on and which is greater than the input current generated during normal operation. Inrush is a prevalent condition in LED technology. Where inverters are concerned, the design must be capable of handling the combined draw of all equipment on the circuit without triggering over-current protection features. Inrush is calculated by using the expression I^2t where I equals the maximum Peak Current and t is the Pulse Width duration (ms). The combined I^2t values of all devices on the circuit will provide the total inrush value.

A recommended industry practice is to de-rate inverters by 25% when used with LED loads to account for inrush, however **IOTA IIS Micro-Inverter models are NEMA 410 rated to accommodate the full rated capacity, including inrush, meaning no de-rating is required**.
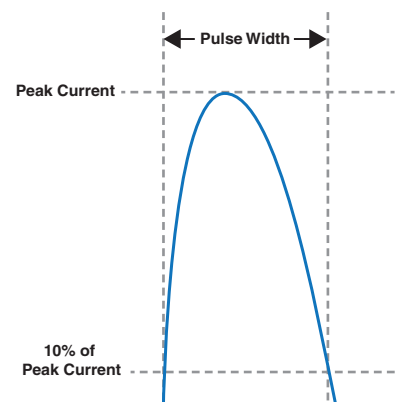
NEMA standards recommended a 25% de-rating of equipment for accommodating cumulative inrush.
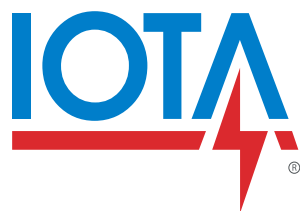
ALCR Solutions

ALCR (Automatic Load Control Relay) devices enable the use of controls on designated fixtures or circuits connected to an auxiliary power supply, such as a generator or inverter system. This capability allows the auxiliary supply to provide emergency power, regardless of control settings on the circuit. ALCR devices make it possible for occupants to turn lights off when not needed - such as during a screen presentation - but will bypass the setting if a loss of normal power is detected and allow the auxiliary supply to provide emergency lighting. Controls are not limited to wall switches, but can also include other devices such as occupancy sensors, photocells, or dimming controls.

Decreases power consumption by eliminating the need for Always On fixtures or 24/7 night lights connected to auxiliary generators or inverters.
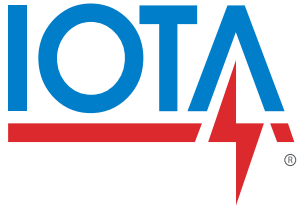
Dimming relays expand control of designated emergency fixtures and circuits by allowing use of 0-10V dimming signals.

Dual Zone Dimming capability bypasses up to two different dimming control settings during a loss of normal power.

Use a secondary device such as a fire alarm to auto-matically override control settings on the designated emergency fixtures.

ETS and ETS 20 Control Devices

IOTA offers two types of ALCR solutions: a fixture-level (ETS DR) and circuit-level solution (ETS 20 and ETS 20 DR.) The ETS DR installs within a single fixture to allow use of lighting controls, such as wall switch or occupancy sensor, with additional dimming relay leads to connect to a 0-10V dimming signal. Circuit-level ETS 20 and ETS 20 DR models accomplish the same purpose, but allow use of controls on an entire circuit.

ETS DR

The ETS DR is a fixture-level ALCR that will shunt power around the fixture's local control to enable operation from the emergency supply. Includes 0-10V dimming relay.

Input Voltage: Dual 120/277VAC, 60Hz

Maximum Load Ratings
3 Amps @ 120VAC
3 Amps @ 277VAC

Operation:
The ETS DR allows any properly-rated fixture to be operated by an auxiliary supply regardless of local control settings.

Dimming Capability:
Can be used in 0-10 volt dimming circuits up to 100mA

Operating Temp
-20° to 65° C (-4° to 149° F)

Approval
UL 924 Listed for U.S. and Canada.
Rated for use in plenum applications.

Dimensions
8.0" x 1.18" x 1.125"
(mounting center: 7.5")

Weight 1.0 lbs

ETS 20

The ETS 20 is a circuit-level ALCR that will shunt power around the local control to allow operation of fixtures from an auxiliary supply in the event of a loss of normal power.

Input Voltage: Dual 120/277VAC, 50/60Hz

Maximum Load Ratings
LED Driver: 8A@120Vac, 50/60Hz per NEMA 410
LED Driver: 8A@277Vac 50/60Hz per NEMA 410
Ballast: 20A@120/277Vac, 50/60Hz
Incandescent: 10A@120Vac, 50/60Hz

Operation:
The ETS 20 will shunt power to the designated emergency load to operate at full brightness as long as the emergency supply is present.

Operating Temp
-20° to 55° C (-4° to 131° F)

Approval
UL 924 Listed for U.S. and Canada.
Rated for damp location and plenum applications.

Dimensions
4.625" x 2.25" x 2.25"
Threaded Coupling: 1" with 0.5 diam.

Weight 1.0 lbs

ETS 20 DR

The ETS 20 DR performs like the ETS 20, but with two dimming relays to allow the use of up to two 0-10V different dimming signals on the circuit without compromising the emergency function.

Input Voltage: Dual 120/277VAC, 50/60Hz

Maximum Load Ratings
LED Driver: 8A@120Vac, 50/60Hz per NEMA 410
LED Driver: 8A@277Vac 50/60Hz per NEMA 410
Ballast: 20A@120/277Vac, 50/60Hz
Incandescent: 10A@120Vac, 50/60Hz

Operation:
The ETS 20 will shunt power to the designated emergency load to operate at full brightness as long as the emergency supply is present.

Operating Temp
-20° to 55° C (-4° to 131° F)

Approval
UL 924 Listed for U.S. and Canada.
Rated for damp location and plenum applications.

Dimensions
4.625" x 2.25" x 2.25"
Threaded Coupling: 1" with 0.5 diam.

Weight: 1.0 lbs

Dimming Relay Included

Integral and Flex Models Available

Inrush Rated to NEMA 410 Standards

Extended Temperature Performance

Optional Trigger Capability with Blue Jumper Leads

Inrush Rated to NEMA 410 Standards
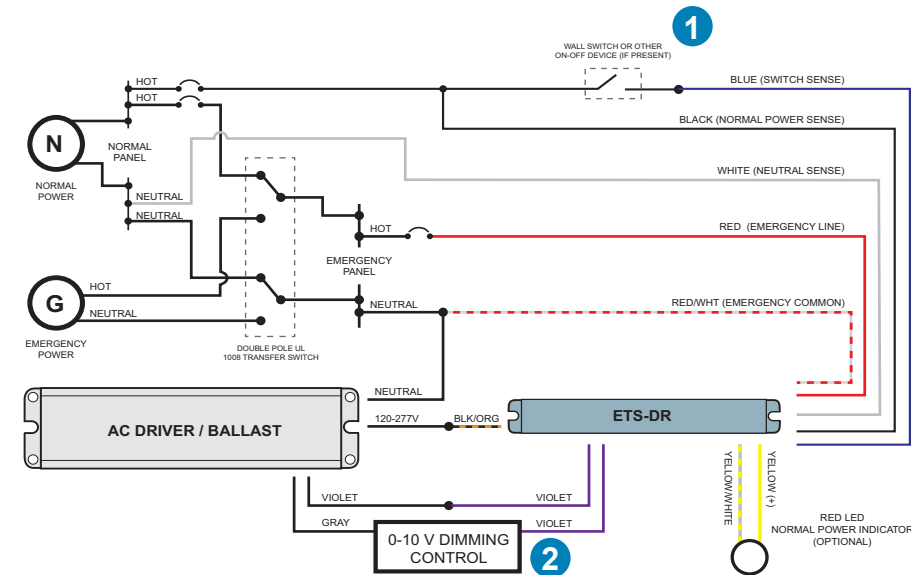
DUAL | ZONE
DIMMING CONTROL
Allows for Dual Zoning Dimming

**Optional Trigger Capability with Blue Jumper Leads**

Inrush Rated to NEMA 410 Standards

Fixture-Level ALCR Wiring (ETS DR)

The **ETS DR** has two leads connected to either side of the local control: one senses the presence of normal power, and the other senses the switch setting (1). If the **ETS DR** senses that power is lost ahead of the switch, the unit allows power from the unswitched generator to the driver or ballast and operates the fixture. The dimming relay leads operate in much the same manner, allowing the dimming signal to pass to the lighting load during normal operation (2). During a power loss, the relay is opened, forcing the fixture to operate at full brightness.

Circuit-Level ALCR Wiring (ETS 20)
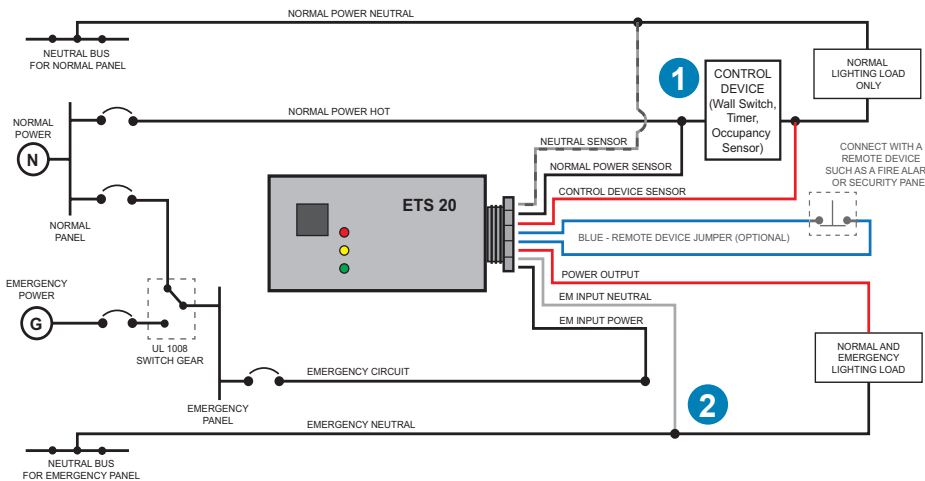
The **ETS 20** operates under the same principle as the ETS DR, but works with a full lighting circuit instead of a single fixture. The primary difference is that the **ETS 20** coordinates between the lighting load on the normal circuit and the lighting load on the designated emergency circuit. The **ETS 20** passes the signal from the control on the normal circuit (1) to the fixtures on the emergency circuit. If power is lost, the **ETS 20** allows the emergency supply to power the designated fixtures (2) regardless of the control setting.

Circuit-Level ALCR Wiring with Dimming (ETS 20 DR)

To accommodate 0-10V dimming signals on the emergency fixtures, use the **ETS 20 DR**. Two sets of dimming relays are supplied to allow two different dimmed "zones."

1. The first relay leads connect to the dimming control for Zone 1. The dimming signal is passed through the **ETS 20 DR** to the load. During a power loss, the dimming signal is bypassed and full power is given to the EM load.

2. For this application, the unused relay lead is capped. However, this lead can be connected to another control device (such as an alternative dimmer) to accept a signal other than full output while in the EM mode.

3. Duplicate the connections for the second set of relays to the second dimming zone.

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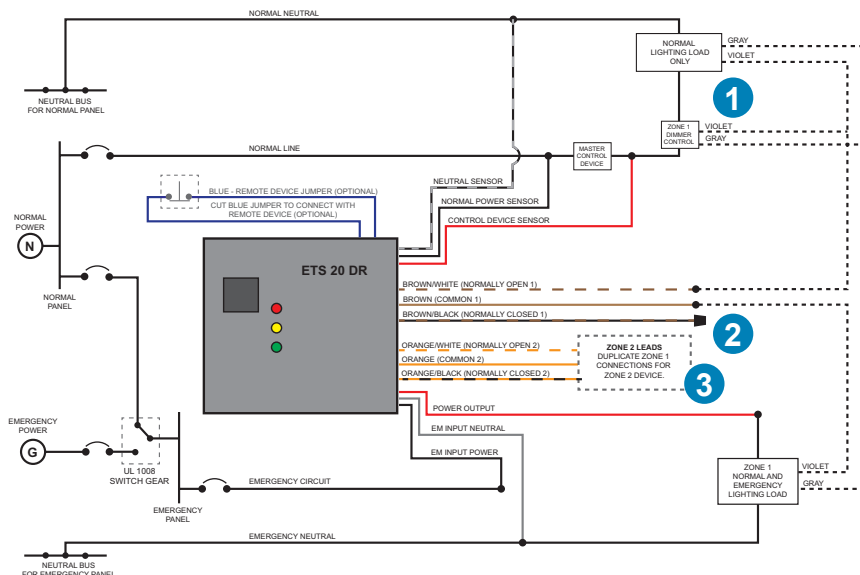
The Industry's Leading Portfolio of Emergency Lighting Solutions...

LITHONIA LIGHTING.

With an extensive selection of commercial indoor emergency lights, running man signs, and combination signage/emergency lights, Lithonia Lighting® emergency products offer egress solutions designed to meet the architectural and practical elements of any facility.

IOTA

IOTA® emergency lighting solutions bring confident egress lighting performance to existing fixtures through the use of integral emergency battery designs, powerful auxiliary inverter systems, and energy-saving ALCR control devices.

Looking for additional products or guidance for your emergency lighting requirements? Let us help! The Acuity Brands team represents decades of knowledge and insight into Life Safety egress solutions.

📞 1-800-705-SERV

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