Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

HAL-32-60W-ITG-LED

60W Hazardous Location Integrated LED Light Fixture - 7700 Lumens - Low Profile

Product ID: 106011



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

HAL-32-60W-ITG-LED HAZLOC LED Light Fixture
Listing: United States - Canada
Dimensions: 5.76"W x 32.6"L x 3.92"H
Weight: 18.9 lbs
Voltage: Universal 120-277V AC 50/60 Hz
Total Watts: 60 watts
Total Lumens: 7,709 (clear lens) 7,064 (frosted lens)
LED Lamp Life Expectancy: 212,000+ Hours
Luminous Efficacy: 128.48 Lumens per Watt
Color Temp: 5000K
Color Rendering Index: >70
Beam Angle: 160°
Ambient Operating Temp Range: -30°C to +65°C
Operating Temp Rating: T6 Rated
Minimum Operating Temp: -30°C
Maximum Case Temp: +65°C
Housing Material: Copper Free Extruded Aluminum
Lens Material: Impact Resistant Polycarbonate
Lens Options: Clear or Frosted
Gasket Material: Temperature Rated Silicone
Mounting: Slot, Swivel, Wall or Ceiling Brackets, Beam Clamps
Wiring Hub: 1/2" or 3/4" NPT

Ratings/Approvals
Class I Division 2 Groups A, B, C & D
Class I Zone 2 Groups IIC, IIB & IIA
Class II, Divisions 1 & 2, Groups E, F & G
NRTL Certified to UL 844 for Hazardous Locations
NRTL Certified to UL 1598(A) Marine Type (Saltwater)
NRTL Certified to UL 8750 for LED Lighting
NRTL Certified to CSA C22.2 No. 137-M1981
NRTL Certified to IEC Certified for Zone 2 & Zone 21
AEx nAII, Ex nAII
Ex nA IIC T6 to T3, Gc
Ex tb IIC T95°C Db
Tamb -50°C = Tz = +65°C
ATEX Certified
ABS Approved
IP66 Waterproof
NEMA 3, 4X
Approved for Confined Spares
No Glass - Group G - Food Suitable

Special Orders- Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The Larson Electronics HAL-32-60W-ITG-LED 60 Watt Explosion Proof

Low Profile Linear LED Light has a T6 temperature rating and is approved Class I Division 2 and Class II Divisions 1 & 2. This durable and long-lasting explosion proof LED light is designed for installation in locations where flammable vapors and gases and combustible dusts and fibers exist or have the potential to exist as well as NEMA 3, 4X, IP66 locations where wind, water, snow, or high ambients can be expected

The Larson Electronics HAL-32-60W-ITG-LED 60 Watt Explosion Proof Linear LED Light generates almost double the lumens of a standard fluorescent fixture and provides crisp white light and high chromaticity for excellent color rendering but uses significantly less energy and produces less heat than fluorescent lighting. Measuring only 3.92" tall and 2.72` long and weighing less than 20 lbs, this extremely low profile 60 watt LED fixture delivers 7,709 lumens (with clear lens) while drawing only 0.5 amps on 120 volts (though it is compatible with all 120-277 VAC 50/60Hz). The HAL-32-60W-ITG-LED produces both more light output and superior quality light than traditional fluorescent lighting fixtures while at the same time offering substantially reduced energy use and increased reliability, longevity, and safety.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

The 60 watt LED is protected by a single impact and vibration resistant polycarbonate lens with either a frosted finish to reduce glare or a clear finish to maximize light output and the LED assembly is housed within a low profile one piece copper-free extruded aluminum body designed to withstand hazardous and harsh conditions. A one wiring access plate makes for easy access to driver lead, and high temperature rated silicone gasketing between the lens and the housing provides NEMA 4X and IP66 sealing. Both the housing and the external screws are constructed to resist moisture, corrosion, ingress of dust and particles as well as being vibration and weather resistant. In addition to the rugged lens and body, the HAL-32-60W-ITG-LED comes equipped with supplemental 20kA/10kA surge protection.

The HAL-32-60W-ITG-LED is designed to accommodate a variety of mounting options include swivel brackets, wall and ceiling brackets, or beam clamps. The slot back design of the lamp allows multiple mounting access points across the length of the lamp. These slots can be used with 5/16" or 8mm bolts and nuts, three housing slots, one center back, and two at 45°. The end caps of the fixture each have two mounting feet built in, plus a safety strap attachment point. Additionally, each end cap features a choice of a 1/2" or 3/4" NPT hub, and the fixture comes furnished with one 3/4" close-up plug.

The Larson Electronics HAL-32-60W-ITG-LED 60 Watt Explosion Proof Linear LED Low Profile Light is a tough, durable, and low to no maintenance alternative to traditional fluorescent lighting. Its versatile power and mounting options, extreme longevity, low energy consumption, high light output, ultra low profile, and rugged lens and body design make it ideal for a variety of applications including, but not limited to: both land based oil rigs and offshore oil platforms, chemical and petrochemical processing facilities, sewage treatment plants, garages, storage facilities, tunnels, and grain/food facilities. In addition, the HAL-32-60W-ITG-LED

carries ABS type approval for marine applications including use on decks, vessels, platforms, barges, ships, boats, and is suitable for dock and marina operations.
Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, gas processing plants.
At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Made in USA Quality

1. Each unit dielectrically tested.
2. Fixture arrives assembled to reduce installation time and cost. Flexible mounting options enable the operator to choose any mounting angle for the fixture.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy
4. No ballast box. No ballast to replace.
5. Heavy gauge extruded aluminum with high gloss reflective finish. Resists dents and corrosion.
6. Easy access to wiring hubs.
7. 7,709 lumens (7,064 with Diffused Lens) while drawing only 60 watts.

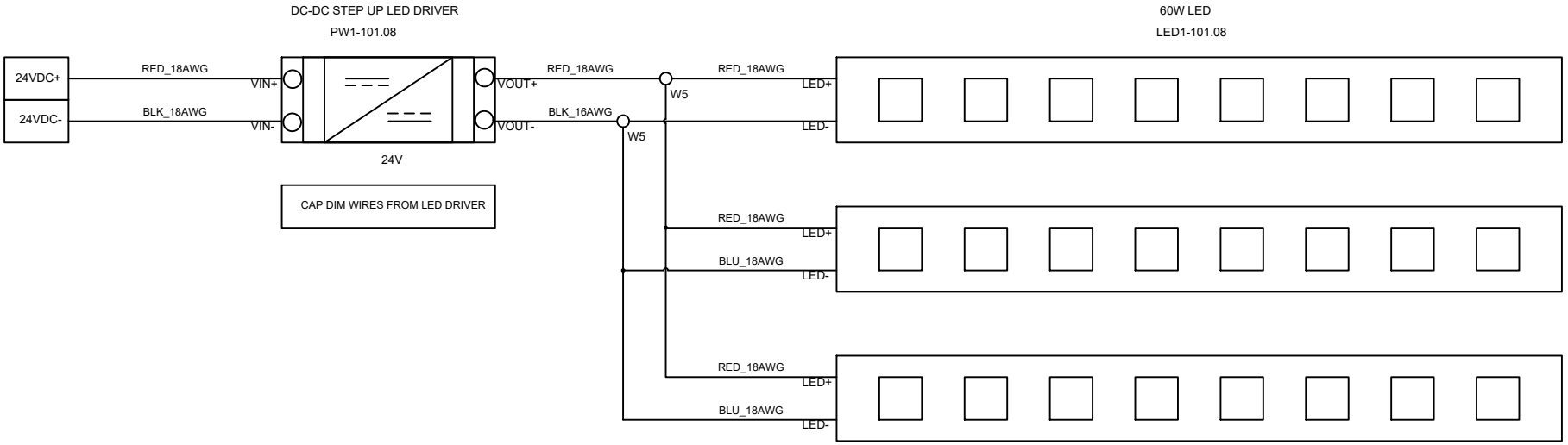
Superior LED Benefits

1. 212,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	03/10/2021

HAL-32-60W-ITG-LED-24VDC-FRST-0.5IN

LARSON ELECTRONICS®



TAGS	QTY	CATALOG	DESCRIPTION
LED1-101.08	1	UNV00005361	60W HAZARDOUS LOCATION INTEGRATED LED
PW1-101.08	1	LDH-65-1400W	LED Lighting Drivers 9.5-32Vin 12.5-46V 64W

LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE			
HAL-32-60W-ITG-LED-24VDC-FRST-0.5IN			
DRAWN BY	DATE	REV	
K.NGUYEN	03/10/2021	A	
CHECKED BY	SHEET #	DRAWING #	
R.BLACK	1 OF 1	101	









Certificate of Conformity

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: HAL-32-60W-ITG-LED
Description: Hazardous Location Integrated LED Light Fixture w/ On/Off Switch

Evaluated Listings - Lamp:

CSA: LR11713: 70027160 – NEC / United States standards
CSA: LR11713: 70027160 – CEC / Canada standards
QPS: IECEx UL 15.0010X – IEC Ex standards
CML: 15ATEX3082X, 15ATEX4081X **–** ATEX standards

Evaluated Listings - Assembly:

ETL: UL 1203, UL 508A – NEC / United States standards
ETL: CSA C22.2 No. 14, No 25, No 30 – CEC / Canadian standards

The HAL-32-60W-ITG-LED is certified to NEC, CEC, ATEX and IEC standards for hazardous locations.

The HAL-32-60W-ITG-LED is comprised of a Killark LAL series lamp and certified under CSA, QPS, and CML under this part number. This assembly is built to NEC, CEC, ATEX, and IEC standards for hazardous locations and certified to UL 1203, UL 508A, CSA C22.2 No. 14, No, 25, and No. 30 under ETL for Larson Electronics.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

LARSON ELECTRONICS LLC • 9419 E US HWY 175 • KEMP, TX 75143
p: 1-800-369-6671 • intl: 903-498-3363 • f: 903-498-3364 • sales@larsonelectronics.com

Certificate of Compliance

Certificate: 70027160 **Master Contract:** 151933 (011713_C_000)

Project: 70190351 **Date Issued:** 2018-07-19

Issued to: **Killark, Div of Hubbell Inc. (Delaware)**
3940 Dr. Martin Luther King Dr.
St. Louis, Missouri 63113
USA
Attention: Thomas J. Michalski

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *Domenic Somma*
Domenic Somma

D. Somma, C.E.T.

PRODUCTS
CLASS - C342803 - FIXTURES AND FITTINGS-For Hazardous Locations
CLASS - C342883 - FIXTURES AND FITTINGS-For Hazardous Locations-Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; T4A, T5 or T6 (Class I, Div. 2), T4A (Class II, Div. 1), T4A (Class I, Div. 2 / Class II, Div. 1 Simultaneous Exposure); Type 4X; Type 6P; Marine Rated (US only); IPX6; IPX7

- LED luminaires for use in hazardous locations, Series LAL, LALC, LALR, LALCR, LALFP, WLAL, WLALC, WLALR, WLALCR and WLALFP rated 120-480 VAC, 50/60 Hz or 100-250 VDC or 12-24 VDC, 120 Watts max.
- LED emergency backup Lighting Fixtures, Series LALE, LALFPiE, WLALE and WLAFPiE rated 120-277, 50/60 Hz. 26 W max,

Notes:
1. The Series are followed by alphanumeric suffixes denoting electrical and mechanical variations. (See Nomenclature breakdown below).
2. Maximum Ambient 40°C, 55°C or 65°C as applicable (see Table 1 below for specification).
3. Exit sign option is excluded from use with pendant or stanchion mount.

Certificate: 70027160 **Master Contract:** 151933

Project: 70190351 **Date Issued:** 2018-07-19

APPLICABLE REQUIREMENTS

The following standards were used in the evaluation of the products covered under this Certificate:

CAN/CSA-C22.2 No.	0-10	-	General Requirements – Canadian Electrical Code, Part II
CAN/CSA-C22.2 No	94-M91	-	Special Purpose Enclosures
CAN/CSA-C22.2 No	60529:05	-	Degrees of Protection Provided by Enclosures (IP Code)
CAN/CSA-C22.2 No	137-M1981	-	Electric Luminaires for Use in Hazardous Locations
CAN/CSA-C22.2 No.	250 -2000	-	Luminaires
CAN/CSA-C22.2 No.	250.13 -2014	-	Light Emitting Diode (LED) Equipment for Lighting Applications
ANSI/UL Standard	1598 – 3rd Edition	-	Luminaires
ANSI/UL Standard	844 – 12th Edition	-	Luminaires for Use in Hazardous (Classified) Locations
ANSI/IEC Standard	60529 – 2004	-	Degrees of Protection Provided by Enclosures (IP Code)
ANSI/UL Standard	50 – 11th Edition	-	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL Standard	8750 – 1st Edition	-	Light Emitting Diode (LED) Equipment for use in lighting products

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Nameplate adhesive label material approval information:

The equipment is marked with the following information. The following markings shall appear on an approved self-adhesive backed label(s).

- Submitter’s name, Trade Mark, File Number or Master Contract Number,

- Catalog number,

- Hazardous location rating designation (may be optionally marked with Zone marking e.g. (Class I, Zone 2, Groups IIA, IIB, IIC),

- Date code or serial code,

- The CSA Monogram with C US indicator,
- Complete Electrical Ratings: Voltage, Amperes, Frequency and Wattage,
- Lamp Type,
- Supply wire temperature rating,
- Operating Ambient,
- Temperature Code per “Table 1 – Operating Temperatures”
- "CAUTION: To Prevent Ignition Of Hazardous Atmospheres, Disconnect The Fixture From The Supply Circuit before opening. Keep tightly closed while circuits are alive.”
- “CAUTION: In Order to Service a Battery Back-up Fixture, the Area Must be Non-Hazardous.”
- "WARNING: To Prevent Fire Or Explosion Do Not Install Where The Marked Operating Temperature Exceeds Ignition Temperature Of Hazardous Atmospheres"
- "CAUTION: See Instruction Sheet K1449 for Installation Operating and Maintenance Instructions"
- May be marked with “SUITABLE FOR WET LOCATIONS” and/or “IPX6” and/or “Enclosure Type 4X” and/or “IPX7” and/or “Enclosure Type 6P”.
- May be marked “Marine Luminaire” and “Outdoor Type” when provided with stranded wiring, and without fusing option.

Supplement to Certificate of Compliance

Certificate: 70027160 **Master Contract:** 151933 (011713_C_000)

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70190351	2018-07-19	Update the existing CSA report on the LAL to: 1) Add an additional option (Externally mounted Exit Sign) 2) Add an alternate LED: Nichia NFSL757GT 3500K 90CRI. Up to now all LEDs have been 5000K (color temperature) and 70 CRI (color rendering index). Higher color temperatures are more efficient. 3) Add alternate drivers: XI055C180V054BSJ1, OT50W/UNV/800C/2DIMLT2/P6 and OT100W/347-480/1250C/2DIMLT2/P6 4) Add an alternate LED for use on the compact version: Cree XPG3. 5) Add an alternate LED board for use on the 50W compact version: the 20 Up board driven at 800mA instead of the 132Up Nichia 757 driven at 700mA.
70111397	2016-12-07	LALFP Lighting Fixture
70045073	2015-09-22	Update to Report 70027160 to alternate LED drivers for Series LAL lighting fixtures..
70027160	2015-04-24	Certification of LED luminaires Series LAL and LALE for use in hazardous locations

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CLASS - C342883 - FIXTURES AND FITTINGS-For Hazardous Locations-Certified to U.S. Standards

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- The CSA Monogram with C US indicator,
- Complete Electrical Ratings: Voltage, Amperes, Frequency and Wattage,
- Lamp Type,
- Supply wire temperature rating,
- Operating Ambient,
- Temperature Code per “Table 1 – Operating Temperatures”
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- “CAUTION: In Order to Service a Battery Back-up Fixture, the Area Must be Non-Hazardous.”
- "WARNING: To Prevent Fire Or Explosion Do Not Install Where The Marked Operating Temperature Exceeds Ignition Temperature Of Hazardous Atmospheres"
- "CAUTION: See Instruction Sheet K1449 for Installation Operating and Maintenance Instructions"
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Frequently Asked Questions (FAQ)