CHLORIDE
by Signify

Exit/Emergency

Fusion III

LED die-cast aluminum recessed ceiling light

LED

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Example: F3NBR31KICT

F3					
Series	**Battery**	**Housing Finish**[1]	**LED Designator**	**Model Designator**	**Options**
F3 – Fusion III LED Fixture	A – AC Only N – Self-Powered Emergency Unit with Nickel Metal Hydride Battery (NiMH)	W – White B – Black A – Aluminum BR – Dark Bronze	31K – 3,100 Kelvin 65K – 6,500 Kelvin	IC – Intelli-Charge Diagnostics ICT – Self-Testing Diagnostics (nickel metal hydride units only) ICTA – Audible Self-Testing Diagnostics (nickel metal hydride units only)	2CKT1 – Two-Circuit 120/120 VAC (AC only models) 2CKT2 – Two-Circuit 277/277 VAC (AC only models) DC – Universal 12-48 VDC Remote Emergency Input (AC only models) EX – Special Input Transformer (specify voltage & frequency)[2] RT – Rectangular Trim Plate

Accessories[3] (Order Separately)

ICIR – Intelli-Charge Infra-Red Remote

Footnotes

[1] Custom colors are available. RAL# must be provided.
[2] Some options impact UL listing. Consult factory for specifics.
[3] Consult Signify to confirm whether specific accessories are BAA-compliant.

codes and standards

- UL 924 listed
- UL damp location listing standard
- NFPA 101, NEC, IBC, BOCA, and OSHA illumination standard
- UL1598 Non-IC

construction

- Fully-gasketed and powder-painted die cast aluminum housing and cover with a minimalistic UV stabilized polycarbonate lens.
- Optional rectangular trim plate is available (RT option)

installation

- The housing is designed for direct mounting to a 3-1/2" or 4"octagonal or single gang junction boxes using convenient keyhole knockouts.
- The unit may also be connected to conduit via its conduit entry knockout.
- A bar hanger kit is provided for recessed mounting.

electronics

- 120/277 VAC dual voltage input with surge protection is standard on all models.
- Self-powered models feature the Intelli-Charge circuit where the charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation.

- Self-powered models include brownout detection, AC lockout, low voltage disconnect, AC power indicator, charge status indicator, audible user-interface controls, visual LED system fault indicator, and tactile push-to-test switch.
- Additional equipment safety features include reverse battery polarity detection and protection, and reverse utility power detection and protection.
- All self-powered models include an on-board IR receiver for use with the optional hand-held remote (ICIR).
- (optional self-testing electronics) The diagnostic/charging platform with optional self-testing mode automatically runs a one minute self-test once a month and a 30 minute test on the sixth and twelfth month in accordance with NFPA 101.
- A one-minute or 90 minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.
- Power Consumption
  AC-only and 2CKT models, damp location:
  -40°F (-40°C) to 104°F (40°C).
  Self-powered, damp location: 32°F (0°C) to 104°F (40°C).
  AC only models: (120 VAC) 60 Hz, 0.203 A; (277 VAC) 60 Hz, 0.087A.
  AC only, 2 circuit models: (120 VAC) 60 Hz, 0.203 A; (277 VAC) 60 Hz, 0.087 A.
  Self-powered models: (120 VAC) 60 Hz, 0.198 A; (277 VAC) 60 Hz, 0.088 A.

F3 Fusion III LED die-cast aluminum recessed ceiling light

"AC only or Emergency"

lamps

- Illumination is provided by two field replaceable white LED modules and a vacuum plated polycarbonate reflector.
- The two LED modules are independently driven and operate at 3,100 K or 6,500 K based on selected models.

battery

- Maintenance free sealed nickel metal hydride with 10 year life.
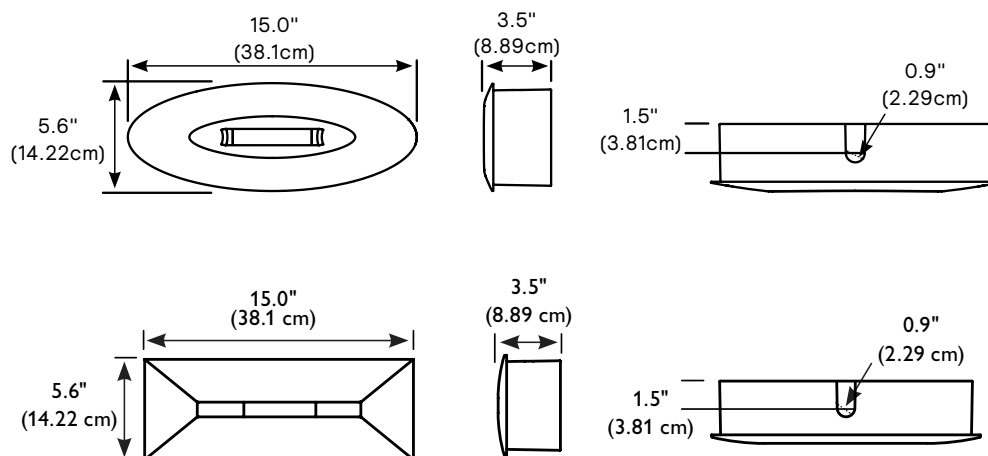- Provides a minimum of 90 minutes emergency illumination.

warranty

- Five full years on electronics and unit.

options

- 2CKT1 – Available on AC only configured models to accommodate inputs from a normally on circuit and an AC emergency circuit from a generator or emergency inverter circuit limited to 120 VAC circuits.
- 2CKT2 – Available on AC only configured models to accommodate inputs from a normally on circuit and an AC emergency circuit from a generator or emergency inverter circuit limited to 277 VAC circuits.
- DC – The DC option is reserved for AC only configured models and accommodates wiring to a remote emergency battery unit. The DC input is not polarity sensitive and accepts 12 to 48 VDC from a remote source.
- EX – The special input transformer option allows for input voltage and frequencies beyond the standard 120/277 VAC, 60 Hz input.

- ICT – The self-testing option enables a periodic self-test of the equipment where a test routine is established to perform a one minute test every thirty days with a 30 minute test performed on the sixth and twelfth month in accordance with NFPA 101. Equipment readiness faults are indicated with a visual LED display.
- ICTA – The audible self-testing option enables a periodic self-test of the equipment where a test routine is established to perform a one minute test once a month with a 30 minute test performed on the sixth and twelfth month in accordance with NFPA 101. Equipment readiness faults are indicated with a visual LED display and an audible alarm.
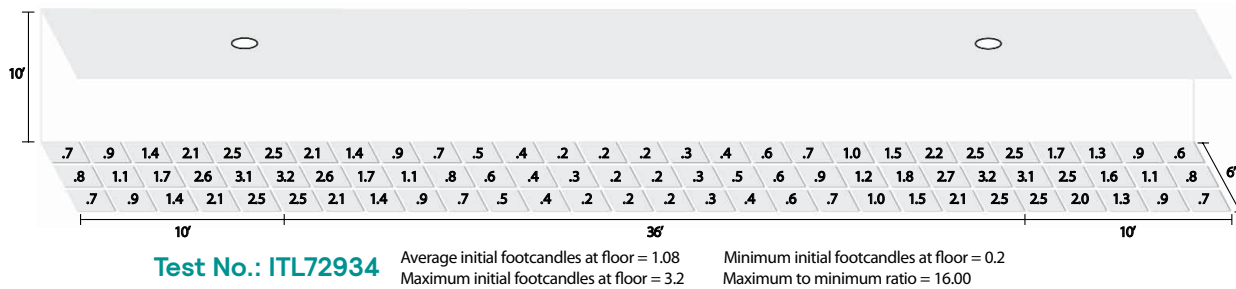
dimensions

F3 Fusion III LED die-cast aluminum recessed ceiling light
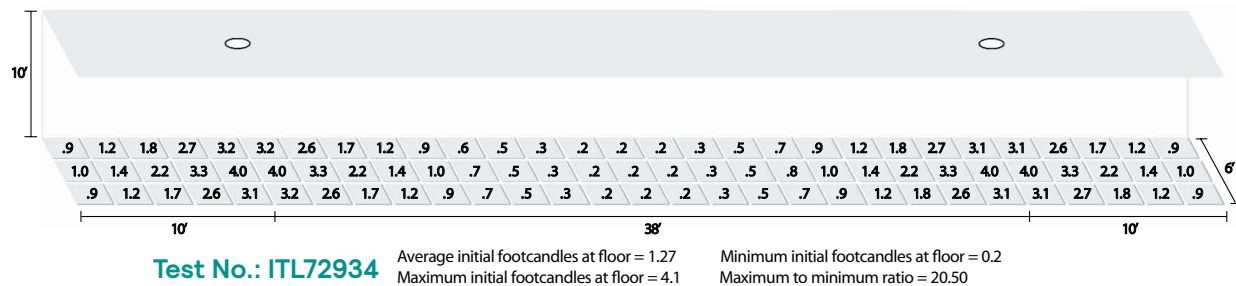
"AC only or Emergency"

performance

Meets Life Safety Code illumination standard; average of 1.0 FC, no point less than 0.1 FC, max to min ratio of 40:1. Assumes open space with no obstructions, mounting height: 10' and reflectances: 80/50/20. Analysis based on independently tested photometrics.

Recessed Ceiling Mount in AC Mode, 10' AFF, Two Fixtures, 36' Centers

Test No.: ITL72934

Average initial footcandles at floor = 1.08
Maximum initial footcandles at floor = 3.2
Minimum initial footcandles at floor = 0.2
Maximum to minimum ratio = 16.00

Recessed Ceiling Mount in Emergency Mode, 10' AFF, Two Fixtures, 38' Centers

Test No.: ITL72934

Average initial footcandles at floor = 1.27
Maximum initial footcandles at floor = 4.1
Minimum initial footcandles at floor = 0.2
Maximum to minimum ratio = 20.50

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

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