

Project	
Notes	
Type	Date
Cat. No.	

STL™ Series **LED Stairwell Strip Luminaire**



DESCRIPTION

The Aleo STL™ Series Stairwell Strip Luminaire delivers high performance with deep energy savings. The LED luminaire comes equipped with a multi-level occupancy sensor and emergency battery backup, enhancing safety and security in stairwells, hallways and egress applications.

APPLICATIONS

Stairwell, Hallways, Corridors, Closets, Pathways



Specification Features

Construction

Integral LED gear tray and reflector with driver on board allows for easy installation and handling. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

Optical System

Reflector systems features highly reflective coating and delivers balanced, comfortable luminance for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Certification

UL Listed. All components have UL certification. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty

7-year Limited Warranty. See warranty documentation for more information.

Electrical

Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

Installation / Mounting

Ideal for wall or ceiling surface mount. Mounts via keyholes or directly to J-Box.

Controls / Dimming

0-10V dimming comes standard. Comes equipped with High Frequency (microwave) multi-level occupancy sensor for a bi-level (high/low) system.

Emergency Battery Backup

Comes Standard an emergency battery Backup System : 1800lm, 90 min. Test Switch included.

STL Series

4' 25W, 40W

Rated Life 75,000 hours
 Limited Warranty 7-years
 Efficacy Up to 120 LPW
 Continuous Dimming



Quick Ship

STL-4HE-40/840 XE G3-OSDL/HF-EM1800
 STL-4LE-25/840 XE G3-OSDL/HF-EM1800

Ordering Information

Example: STL-4LE-25/840 XE G3-OSDL/HF-EM1800

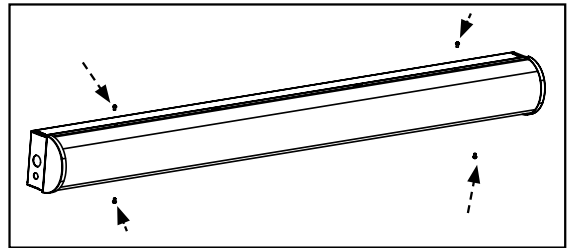
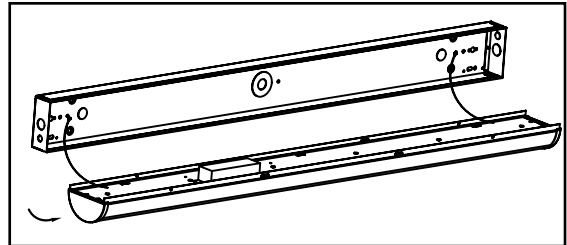
STL	4	HE	25	8	40	[Blank]	Options
Series	Form Factor	Lumen Package	Nom. Wattage	CRI	Color Temp	Dimming	Controls*
STL LED Stairwell Strip Luminaire	4 4'	LE Low Wattage HE High Lumen	25 25W 40 40W	8 83+	35 3500K 40 4000K 50 5000K	Blank 0-10V Continuous Dimming	OSDL / HF High Frequency Multi-Level Occ. Sensor Emergency Backup EM1800 1800lm

Specifications and Dimensions subject to change without notice.

Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 120 LPW (typ.)
CRI	80+
Available CCT ¹	3500K, 4000K, 5000K
Color Consistency ²	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 ³	72,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	10°C to 40°C
Occupancy Sensor Type	High Frequency (Microwave), Multi-Level
Emergency BBU	1800lm, 90 min. 32 hr. recharge time

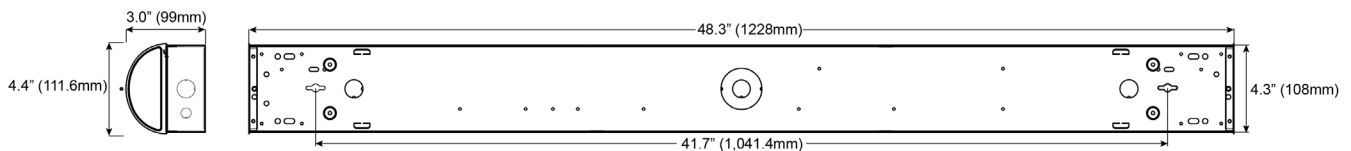
Mounting Information



Performance Data

Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	3500K		4000K		5000K	
				Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
4'	STL-4LE-25/840 XE G3-OSDL/HF-EM1800	25	26	3100	124	3125	125	3150	126
	STL-4HE-40/840 XE G3-OSDL/HF-EM1800	40	42.498	4800	120	4840	121	4880	122

Product Dimensions



NOTES:

¹ Quick ship: 4000K. Other CCTs may require a lead time or be special order

² Typical color consistency. May vary or be changed.

³ L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers. Contact manufacturer for detailed information

Specifications and Dimensions subject to change without notice.

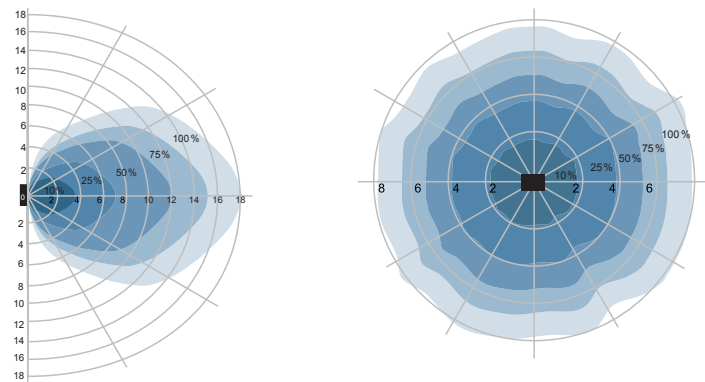
Sensor Information

Specifications

Operating Voltage	120-277Vac, 50/60Hz
Rated load	400W @ 120Vac, 800W @ 220-277Vac(inductive)
HF system	5.8GHz+75MHz, ISM wave band
Power Consumption	<1W (standby)
Detection Zone	8m (@3m mounting height)
Detection Sensitivity	25%/50%/75%/100%
Hold Time	5s/30s/90s/3min/20min/+∞
Daylight Sensor	5lux / 15lux / 30lux / 50lux / 100lux 150lux / Disable
Stand-by Period	0s/5s/3mins/10mins/30min/1h/+5∞
Stand-by Dimming	10%/20%/30%/40%/50%
Mounting Height	33 ft Max.
Motion Detection	1.6~9.8ft/s
Detection Angle	150°(wall installation) 360°(ceiling installation)
Operating Temperature	-25°C~60



Detection Pattern



Sensor Settings

	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	25%

Detection Area

Detection area can be reduced by selecting the combination on the DIP switch to fit precisely each application.

	1	2	
I	ON	ON	50%
II	-	ON	30%
III	ON	-	20%
IV	-	-	10%

Stand-by dimming level

The low light level you would like to have after the hold time in the long absence.

	3	4	5	
I	ON	ON	ON	5S
II	-	ON	ON	30S
III	ON	-	ON	90S
IV	-	-	ON	3min
V	ON	ON	-	30min
VI	-	-	-	+∞

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

	3	4	5	6	
I	ON	ON	ON	ON	5lux
II	-	ON	ON	ON	15lux
III	ON	-	ON	ON	30lux
IV	-	-	ON	ON	50Lux
V	ON	ON	-	ON	100Lux
VI	ON	ON	ON	-	150Lux
VII	-	-	-	-	Disable

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected of ambient light level. 100lux, 100lux, 50lux: twilight operation, 10lux, 5lux: darker operation only.

	6	7	8	
I	ON	ON	ON	0S
II	-	ON	ON	5S
III	ON	-	ON	5min
IV	-	-	ON	10min
V	-	ON	-	30min
VI	-	ON	-	1H
VII	-	-	-	+∞

Stand-by period

Refers to the time the lamp remains at a low light level before it completely switches off in the long absence of people. When set to Disable mode, the low light is maintained until motion is detected.

Note that daylight sensor is active only when lamp totally switches off

Emergency Battery Backup

Emergency Driver Specification

Input Voltage (range)	120V-277V
Power Factor	> 0.6 @ full load
THDc (max.)	20% @ full load 110VAC
Input AC current (max @ VAC)	0.04A
Standby Power (max.)	0.5W
Output Power (max.)	15W
Recharge Time Req.	32 hours
Battery type	LiFePo4
Illumination Time	90 minutes min.
Total Max LED Powered	15W
Ambient Temperature	0°C-50°C



Emergency Information

EMERGENCY BATTERY BACKUP TESTING:

Press the test switch to cut power to the AC driver and switch system to emergency mode. The light source should illuminate in emergency mode. Release the button to return to normal mode. Switch the circuit breaker off to simulate a full power outage.

IMPORTANT:

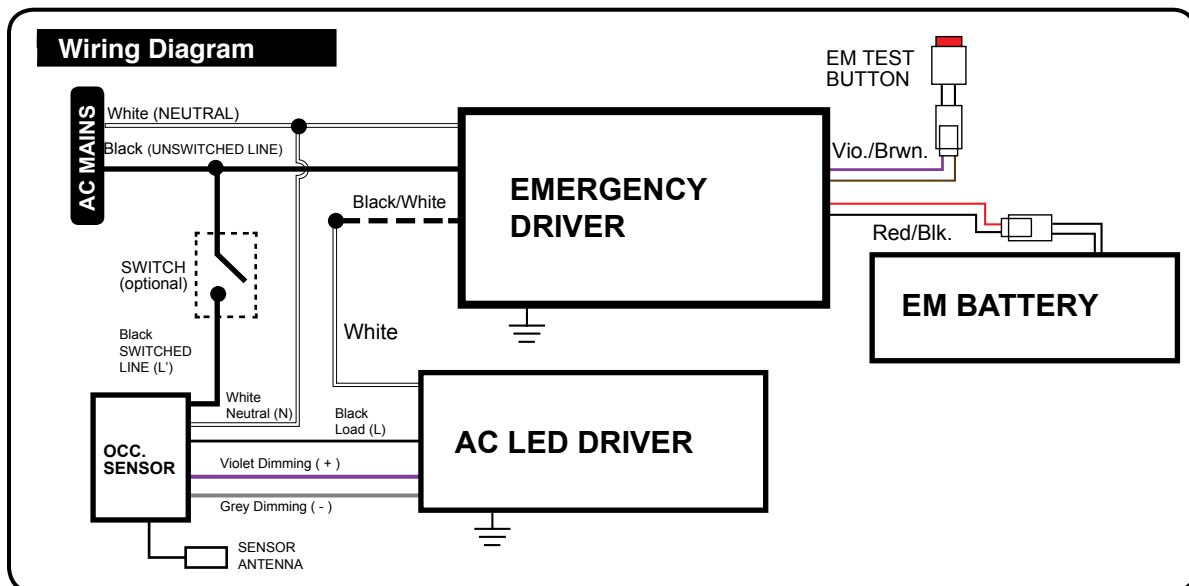
LED Indicator light illuminated indicates battery is in charge mode when AC power is applied. It is recommended and required by applicable code to test the emergency driver to ensure proper function of the system; push the test switch for thirty (30) seconds every 30 days to ensure the emergency driver is functioning as LED light source is illuminated. Conduct a ninety (90) minute discharge test one (1) time per year; LED light source should be illuminated for a minimum of ninety (90) minutes

EMERGENCY BATTERY CHARGING:

If Emergency Battery Backup (EM BBU) is not operational out the box, the battery may be depleted and may need to be charged by being connected to AC power (for a min. of 24 hours).

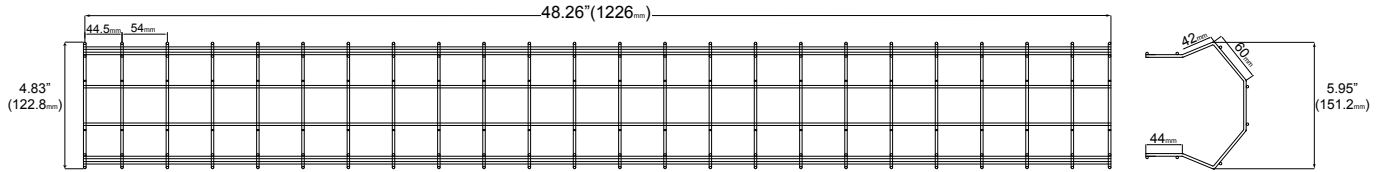
CAUTION:

Battery is rechargeable NiCd or LiFePO4 and must be recycled or disposed of properly. DO NOT use this emergency driver with any accessory equipment other than recommended by manufacturer; failure to follow this may cause an unsafe condition. Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately. Do not use this equipment for other than intended use.



Accessory Options

Wire Guard Dimensions



DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
STL-4LE-25/835 XE G3-OSDL/HF-EM1800	PL6WL2RYCZEI	4.4	Premium	Stairwell and Passageway Luminaires
STL-4LE-25/840 XE G3-OSDL/HF-EM1800	PLIUOJ4T7N92	4.4	Premium	Stairwell and Passageway Luminaires
STL-4LE-25/850 XE G3-OSDL/HF-EM1800	PLMNCQ5QEG8F	4.4	Premium	Stairwell and Passageway Luminaires
STL-4HE-40/835 XE G3-OSDL/HF-EM1800	PLRR7RRMQMGO	4.4	Premium	Stairwell and Passageway Luminaires
STL-4HE-40/840 XE G3-OSDL/HF-EM1800	PLPCD0WXHAK4	4.4	Premium	Stairwell and Passageway Luminaires
STL-4HE-40/850 XE G3-OSDL/HF-EM1800	PLNEKIQHNMKB	4.4	Premium	Stairwell and Passageway Luminaires



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