

Project: _____

Type: _____

Drawn by: _____ Catalogue #: _____

Date: _____

L2STN LED STRIP 3 CCT Selectable

Optional Emergency Remote

The L2STN Series is a great option for retrofitting your traditional fluorescent linear luminaires to balance performance, aesthetics, and cost. These high-quality LED strip lights are equipped with a frosted lens that diffuses the light comfortably, and are ideal for a wide range of commercial and industrial applications.

FEATURES AND SPECIFICATIONS

• Construction

Physical Characteristics

- Sleek and compact design ideal for installation in tight spaces
- 24 gauge white powder painted steel
- Frosted PMMA lens
- CCT Selectable switch placed discretely inside the housing

Mounting

- Surface, suspended or row mounted (see accessories)
- V-Hooks, canopy plate for octagonal junction box, and mounting brackets are included

• Performance Data

- Available in both 3 500 K and 4 000 K single color temperatures, or 3 500/4 000/5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120 - 347 V, 120 - 277 V and 347 V
- Estimated life of over 162 000 hours to L70
- 0-10 V dimming standard
- 2.5 kV surge protection
- Operating temperature:
 - 20 °C to 50 °C (-4 °F to 122 °F)
- Operating temperature with LINK:
 - 20 °C to 25 °C (-4 °F to 77 °F)

• Optional Emergency Lighting

LINK Normally ON Emergency Remote LED Strip

- Consuming 11 W, 12 - 24 VDC
- 200 mA constant current
- Delivers 1 216 - 1 298 lumens in emergency mode
- Ease of maintenance when used with Stanpro emergency lighting battery units complete with auto test function
- Complements Stanpro's normally ON LED strip family
- Patent pending

Please view the LINK specification section for more details on this technology

• Emergency Lighting Compliances

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

• General Lighting Compliances

- cULus listed for damp locations
- DLC Premium and Standard
- Meets requirements of ICES-005 issue 5 class A for use in commercial applications



OVERVIEW

| | |
|-----------------------|---------------------------------|
| Light source | LED |
| Watts (W) | 20 - 75 |
| Lumen output (lm) | 2 640 - 9 750 |
| Efficacy (lm/W) | 130 - 134 |
| Color temperature (K) | 3 500, 4 000, 5 000 |
| CRI | 80+ |
| Weight (lbs) | 24": 2.20, 48": 4.52, 96": 9.04 |

¹ 5 year warranty for the LINK module.

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

QUICK SHIP AND TECHNICAL SPECIFICATION TABLE

| Order code | Model number | Watts (W) | Volts (V AC) | Color temp. (K) ¹ | Lumen output (lm) ² | Efficacy (lm/W) | CRI | Life L70 (hrs) ⁴ | Tested hours LM-80 (hrs) ⁴ | Dimming (Yes/No) | Power factor | THD (%) | Master case qty |
|---|----------------------|-----------------|-----------------|---------------------------------|-----------------------------------|--------------------|-----|--------------------------------|--|---------------------|--------------|------------|-----------------|
| 24" CCT Selectable with Emergency Remote Feature | | | | | | | | | | | | | |
| 69112 | L2STN-24LS1-Q/3C/EL | 20 ⁵ | 120-347 | 3 500/4 000/5 000 | 2 640 ³ | 132 | 80+ | 190 000 | 9 000 | Yes | 0.90 | 10 | 6 |
| 48" | | | | | | | | | | | | | |
| 68123 | L2STN-48LS3-Q/40K | 35 | 120-347 | 4 000 | 4 585 | 131 | 80+ | 162 000 | 9 000 | Yes | 0.90 | 10 | 6 |
| 48" with Emergency Remote Feature | | | | | | | | | | | | | |
| 69113 | L2STN-48LS3-Q/40K/EL | 35 ⁵ | 120-347 | 4 000 | 4 585 | 131 | 80+ | 162 000 | 9 000 | Yes | 0.90 | 10 | 6 |
| 96" | | | | | | | | | | | | | |
| 68130 | L2STN-96LS2-H/35K | 75 | 347 | 3 500 | 9 750 | 130 | 80+ | 162 000 | 9 000 | Yes | 0.90 | 10 | 1 |
| 68133 | L2STN-96LS2-W/35K | 75 | 120-277 | 3 500 | 9 750 | 130 | 80+ | 162 000 | 9 000 | Yes | 0.90 | 10 | 1 |

¹ Typical color temperature range: +/- 5 %.

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³ Lumen values are derived from DLC reported data at 3 500 K. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

⁴ Life hours are derived from IESNA LM-80-08 testing report and projected per IESNA TM-21-11 extrapolations.

⁵ For wattage and lumen consumption in Emergency Mode, please see the LINK Technical Specification Table on page 3.

For emergency lighting spacing, please see page 5.
DLC UNIQUE ID TABLE

| Order Code | Model Number | DLC Premium Unique ID ¹ | DLC Standard Unique ID ² |
|------------|-------------------|------------------------------------|-------------------------------------|
| 68123 | L2STN-48LS3-Q/40K | S-36RNC8 | S-KHODL1 |
| 68130 | L2STN-96LS2-H/35K | S-9IR3VD | S-A02MF3 |
| 68133 | L2STN-96LS2-W/35K | S-YPLCXD | S-31VWG7 |

¹ Primary Use Designation: Stairwell and Passageway Luminaires

² Primary Use Designation: Direct Linear Ambient Luminaires

LUMEN SPECIFICATION TABLE

| Order code | Model number | Watts (W) | 3 500 K | | 4 000 K | | 5 000 K | |
|------------|---------------------|-----------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| | | | Lumen output (lm) | Efficacy (lm/W) | Lumen output (lm) | Efficacy (lm/W) | Lumen output (lm) | Efficacy (lm/W) |
| 69112 | L2STN-24LS1-Q/3C/EL | 20 | 2 640 | 132 | 2 660 | 133 | 2 680 | 134 |

DEFAULT PROGRAMMING

69112: 4 000 K

ORDERING GUIDE

| Series | Size | Lamp type | Lumen package ¹ | Volts (V AC) | Color temp. (K) | Options |
|--------|----------|-----------|----------------------------|--------------|-----------------|---|
| L2STN | 48 - 48" | L- LED | S3 - 4 585 lumens (35 W) | Q - 120-347 | 40K - 4 000 | EL - LINK Normally ON emergency remote ² |

¹ See IES files for details.

² When in emergency mode, luminaire only consumes 11 W.

For emergency lighting spacing, please see page 5.

LINK TECHNICAL SPECIFICATION TABLE

| Size | Lumen package | Watts (W) | LINK Watts (W) | LINK Lumen output (lm) |
|------|---------------|-----------|----------------|------------------------|
| 24" | LS1 | 20 | 11 | 1 298 |
| 48" | LS3 | 35 | | 1 216 |

COMPATIBLE DIMMERS¹

| Brand | Model |
|---------|--|
| Leviton | ILLUMATECH IP710-LFZ |
| Lutron | DIVADVSTV Maestro MS-Z101 Nova T NTSTV |
| Philips | Sunrise SR1200ZTUNV |

Dimming range: 10%-100%

¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. Stanpro recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

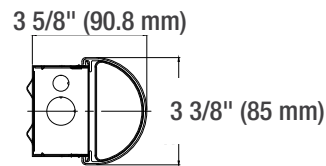
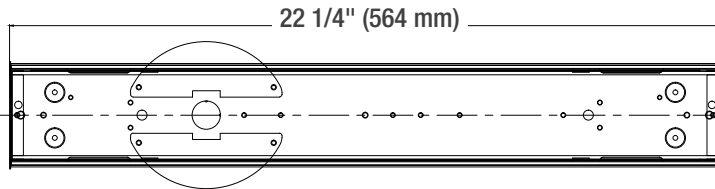
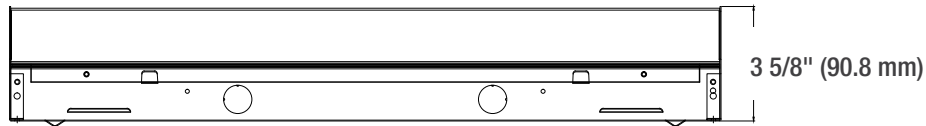
ACCESSORIES (order separately)

| Order code | Type |
|------------|--|
| 68676 | Suspension kit - 2 chains (1 meter) |
| 68677 | Continuous row mounting connector |
| 68678 | Replacement lens 24" |
| 68679 | Replacement lens 48" |
| 68680 | Replacement lens 96" |
| 68622 | Wireguard kit 48" |
| 68857 | Wireguard kit 96" |
| 69082 | 10' Aviation cable kit with canopy, power cord & dimming wires |
| 69069 | External mount PIR motion sensor (120-277 V only) |
| 69080 | Remote control for PIR motion sensor |

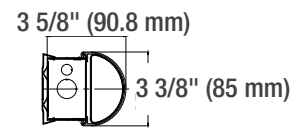
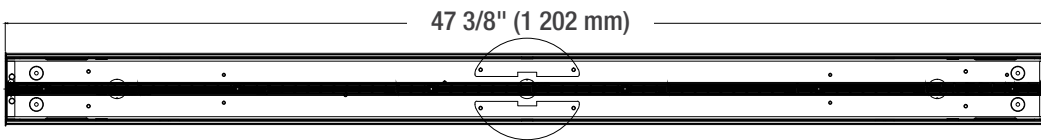
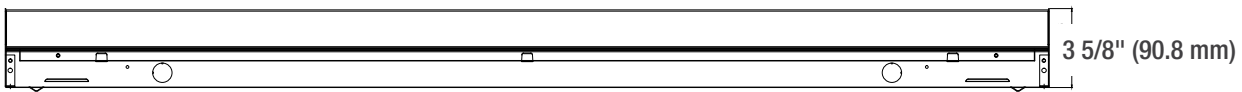
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

DIMENSIONS

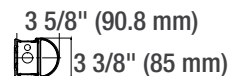
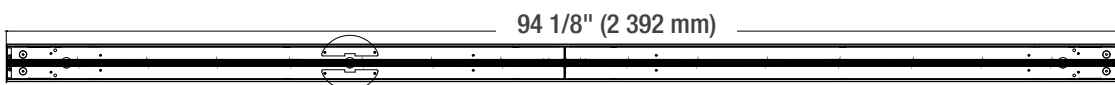
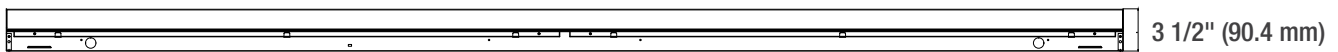
24"



48"



96"



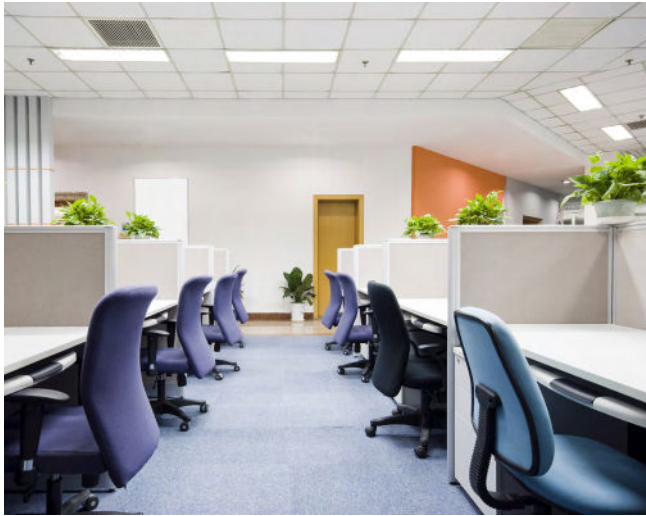
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

LINK

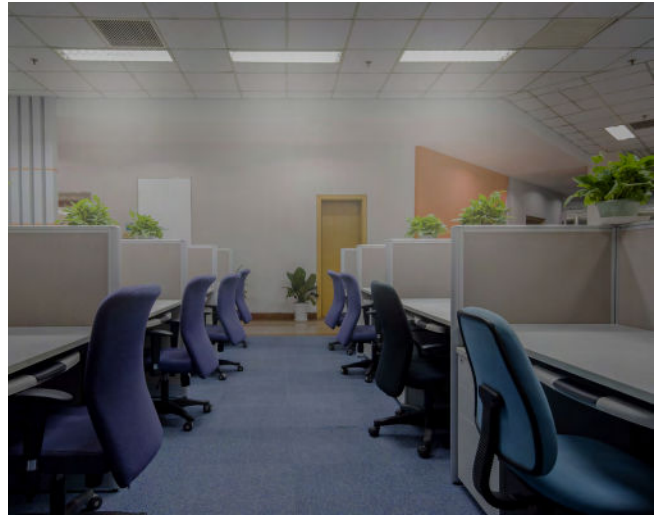
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC Stanpro battery unit, complete with or without auto test.

NORMAL MODE



EMERGENCY MODE



TYPICAL SPECIFICATION

Supply and install Stanpro LINK _____ft, LED strip, Model number: _____ remote normally ON emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005. Normally ON when AC is present and when connected to a Stanpro battery unit complete with or without auto test, this luminaire shall act as an emergency lighting remote and consume 11 W of DC power in _____ V producing 1 216 - 1 298 lumens in emergency mode.

The remote normally ON emergency luminaire shall be powered by a Stanpro emergency lighting battery unit as described herein and shown on the drawings. The Stanpro auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: ___V and ___W. The charge voltage factory set to $\pm 1\%$ tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

The automated testing performed by the Stanpro auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements.

The unit shall be Stanpro model: SL_ _____

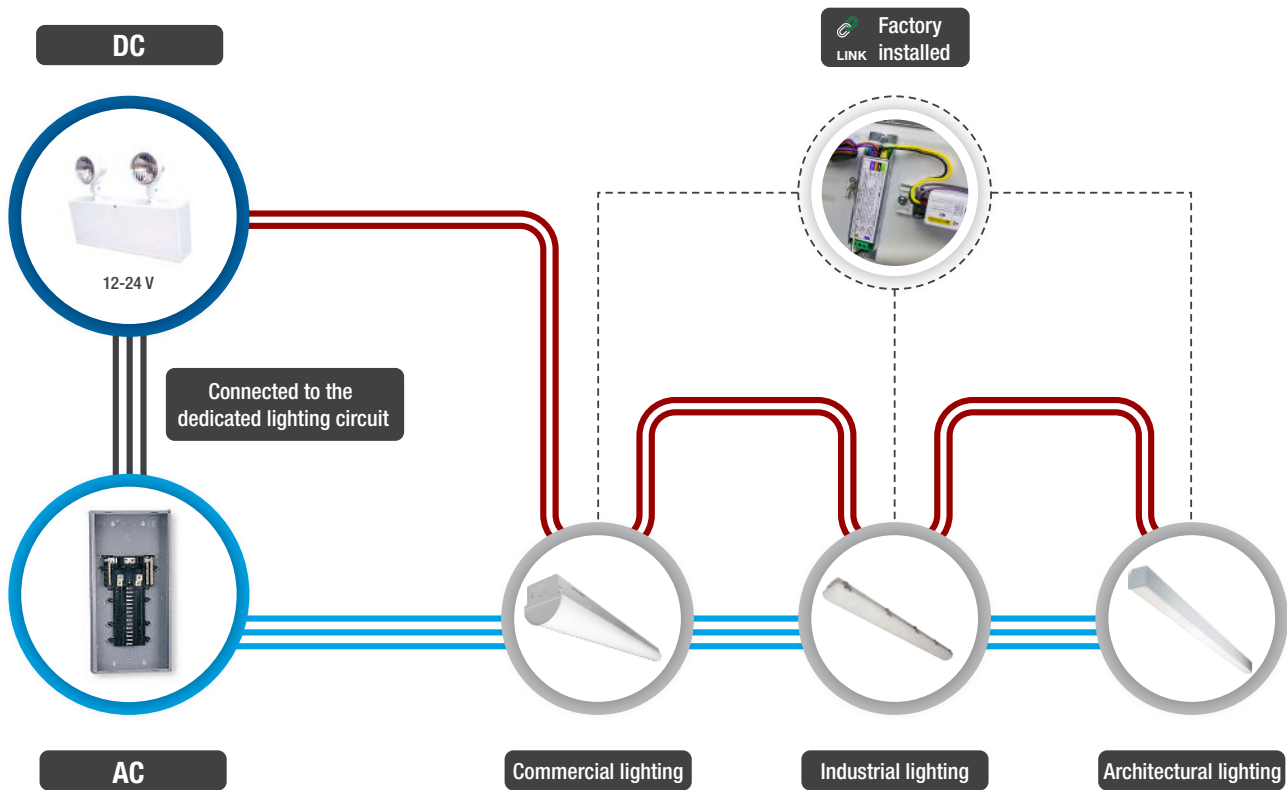
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LINK

NORMALLY ON EMERGENCY REMOTE LUMINAIRE

LINK Wiring Diagram

LINK
remote normally ON
emergency lighting
luminaire



LEGEND

- AC wires
- Connected to the dedicated lighting circuit
- DC wires
- LINK factory installed

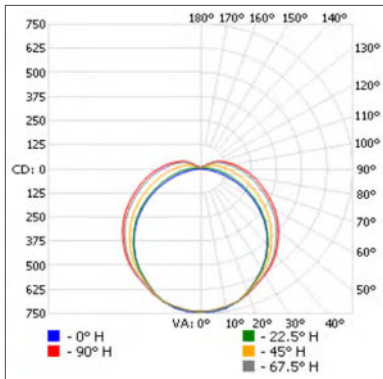
| Emergency mode | Spacing |
|----------------|---|
| L2STN | Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights. |

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

GENERAL LIGHTING PHOTOMETRIC DATA¹

69112 • L2STN-24LS1-Q/3C/EL • 4 000 K • 2 658.0 lm

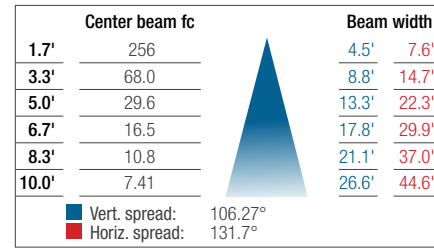
Polar candela distribution



Zonal lumen summary

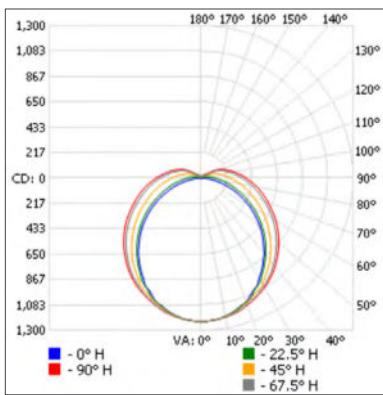
| Zone | Lumens | % Fixture |
|--------|---------|-----------|
| 0-30 | 569.0 | 21.4 |
| 0-40 | 932.7 | 35.1 |
| 0-60 | 1678.4 | 63.1 |
| 60-90 | 701.3 | 26.4 |
| 70-100 | 510.0 | 19.2 |
| 90-120 | 234.3 | 8.8 |
| 0-90 | 2 379.7 | 89.5 |
| 90-180 | 278.3 | 10.5 |
| 0-180 | 2 658.0 | 100 |

Illuminance at a distance



68123 • L2STN-48LS3-Q/40K • 4 584.1 lm

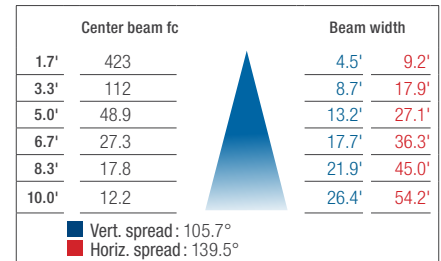
Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|--------|---------|-----------|
| 0-30 | 951.2 | 20.7 |
| 0-40 | 1 563.3 | 34.1 |
| 0-60 | 2 829.3 | 61.7 |
| 60-90 | 1 250.4 | 27.3 |
| 70-100 | 930.1 | 20.3 |
| 90-120 | 430.1 | 9.4 |
| 0-90 | 4 079.7 | 89 |
| 90-180 | 504.4 | 11 |
| 0-180 | 4 584.1 | 100% |

Illuminance at a distance



¹ Complete IES files available on our website.

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