

## Series Spec Sheet

# L2TRV

## TRI-LEVEL MOTION SENSOR LED STRIP

3 CCT and 3 Power Selectable  
Optional Emergency Remote

The L2TRV series of LED strips feature an integrated tri-level microwave motion sensor, preventing energy loss and increasing energy savings. These luminaires feature a rounded lens that evenly diffuses the light and an innovative housing designed for quick and easy installation. The L2TRV series is the perfect choice for applications requiring continuous lighting, such hallways, common areas, parkades and stairwells.

### FEATURES AND SPECIFICATIONS

#### • Construction

##### Physical Characteristics

- Sleek two-part housing design with tool-less entry
- Safety cables placed between lens compartment and housing for easy installation and maintenance
- CCT and Power Selectable switches are placed discretely inside the housing
- 24 gauge white powder painted steel
- Frosted PMMA lens

##### Mounting

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

#### • Performance data

- Integrated tri-level microwave (high frequency) motion sensor
- Available in 3 500/4 000/5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 156 000 hours to L70
- 2.5 kV surge protection
- Operating temperature:
  - 20 °C to 50 °C (-4 °F to 122 °F)
- Operating temperature with LINK or Emergency battery backup:
  - 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 1 222 - 1 344 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

#### • 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, 56 25/30/40 34/38/45 65/75/90
Lumen output (lm)	2 640 - 12 780
Efficacy (lm/W)	131 - 155
Color temperature (K)	3 500/4 000/5 000
CRI	80+

<sup>1</sup> 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](http://www.designlights.org/search).

**QUICK SHIP AND TECHNICAL SPECIFICATION TABLE**

Order code	Model number	Watts	Volts	Color temp.	Lumen output	Efficacy	CRI	Life L70	Tested hours LM-80	Power factor	THD	Master case qty
		(W)	(V AC)	(K) <sup>1</sup>	(lm)	(lm/W)		(hrs) <sup>4</sup>	(hrs) <sup>4</sup>		(%)	
<b>24" CCT Selectable</b>												
69400	L2TRV-24LS1-Q/3C	20	120-347	3 500/4 000/5 000	2 640 <sup>2</sup>	132	80+	156 000	10 000	0.90	10	6
<b>48" CCT and Power Selectable</b>												
69401	L2TRV-48LP40-Q/3C	25/30/40	120-347	3 500/4 000/5 000	3 875/4 500/5 680 <sup>3</sup>	132	80+	156 000	10 000	0.90	10	6
69402	L2TRV-48LP45-Q/3C	34/38/45	120-347	3 500/4 000/5 000	5 270/5 776/6 660 <sup>3</sup>	138	80+	156 000	10 000	0.90	10	6
<b>48" CCT Selectable</b>												
69403	L2TRV-48LS2-Q/3C	56	120-347	3 500/4 000/5 000	7 392 <sup>2</sup>	132	80+	156 000	10 000	0.90	10	6
<b>96" CCT and Power Selectable</b>												
69404	L2TRV-96LP90-Q/3C	65/75/90	120-347	3 500/4 000/5 000	9 750/11 100/12 780 <sup>3</sup>	135	80+	156 000	10 000	0.90	10	1

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

<sup>2</sup> 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.

<sup>3</sup> Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

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

**DLC UNIQUE ID TABLE**

Order code	Model number	DLC Premium Unique ID <sup>1</sup>	DLC Standard Unique ID <sup>2</sup>
69400	L2TRV-24LS1-Q/3C	S-5DWXFH	S-D1AS2I
69401	L2TRV-48LP40-Q/3C	S-PXVS01	S-4K78EC
69402	L2TRV-48LP45-Q/3C	S-G2XBDR	S-8N2EWH
69403	L2TRV-48LS2-Q/3C	S-RWG1X2	S-S8604P
69404	L2TRV-96LP90-Q/3C	S-U6ZBXO	S-E9LB3W

<sup>1</sup> Primary Use Designation: Stairwell And Passageway Luminaires

<sup>2</sup> 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)
69400	L2TRV-24LS1-Q/3C	20	2 640	132	2 800	140	2 640	132
69401	L2TRV-48LP40-Q/3C	25	3 625	151	3 875	155	3 675	147
		30	4 200	140	4 500	150	4 260	142
		40	5 280	132	5 680	142	5 360	134
69402	L2TRV-48LP45-Q/3C	34	4 930	145	5 270	155	4 998	147
		38	5 396	142	5 776	152	5 472	144
		45	6 210	138	6 660	148	6 300	140
69403	L2TRV-48LS2-Q/3C	56	7 392	132	7 784	139	7 336	131
69404	L2TRV-96LP90-Q/3C	65	9 100	140	9 750	150	9 230	142
		75	10 350	138	11 100	148	10 500	140
		90	12 150	135	12 780	142	12 060	134

**DEFAULT PROGRAMMING**

69400: 4 000 K

69401: 40 W / 4 000 K

69402: 45 W / 4 000 K

69403: 4 000 K

69404: 75 W / 4 000 K

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. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

**ORDERING GUIDE**

Series	Size	Lamp type	Lumen package (W) <sup>1</sup>	Volts (V AC)	Color temp. (K)	Options
L2TRV	24 - 24"	L- LED	S1 - 20	Q - 120-347 W - 120-277 <sup>2</sup>	3C - 3 500/4 000/5 000	EL - LINK Normally ON emergency remote <sup>3,4</sup> DL - 8 W Emergency battery backup (120-277 V only) <sup>5</sup>
	48 - 48"		P40 - 25/30/40 P45 - 34/38/45 S2 - 56			
	96 - 96"		P90 - 65/75/90			

<sup>1</sup> See IES files or LUMEN SPECIFICATION TABLE for details.

<sup>2</sup> Only available for 48" and 96" luminaires when used with DL option.

<sup>3</sup> When in Emergency Model with EL option, half of the 96" luminaire will remain illuminated.

<sup>4</sup> When in Emergency Mode with EL option, luminaire only consumes 11 W.

**For emergency lighting spacing with EL option, please see page 8.**

<sup>5</sup> Only available for 48" and 96" luminaires in 120-277 V.

**LINK TECHNICAL SPECIFICATION TABLE**

Size	Lumen package	Watts (W)	LINK Watts (W)	LINK Lumen output (lm)
24"	LS1	20	11	1 257
48"	LP40	25		1 294
		30		1 291
		40		1 222
	LP45	34		1 344
		38		1 322
		45		1 268
		56		1 223
96"	LP90	65		1 295
		75		1 241
		90		1 242

**EMERGENCY BATTERY BACKUP SPECIFICATION TABLE**

Size	Lumen package	Watts (W)	Emergency battery backup Watts (W)	Emergency battery backup Lumen output (lm)
48"	LP40	25	8	1 035
		30		1 033
		40		978
	LP45	34		1 075
		38		1 057
		45		1 014
		56		965
96"	LP90	65		1 036
		75		993
		90		994



Standard placement of the test switch and indicator light is on the end cap of the luminaire. For alternative placement, please contact your Stanpro customer service representative.

Discharge Time (min.)	≥ 90
Recharge Time (hrs)	≥ 24

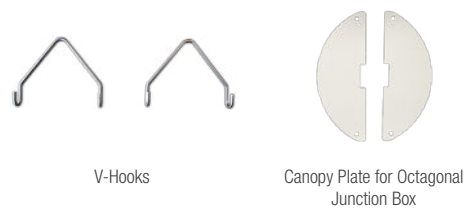
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

**ACCESSORIES (order separately)**

Order code	Type
68676	Suspension kit - 2 chains (1 m)
69082	10' Aviation cable kit with canopy, power cord & dimming wires
69405	Continuous row mounting connector
69398	Transparent end caps (set of 2)
69399	Remote control for motion sensor
69412	Wire guard kit 24"
69413	Wire guard kit 48"
69395	Replacement lens 24"
69396	Replacement lens 48"
69397	Replacement lens 96"

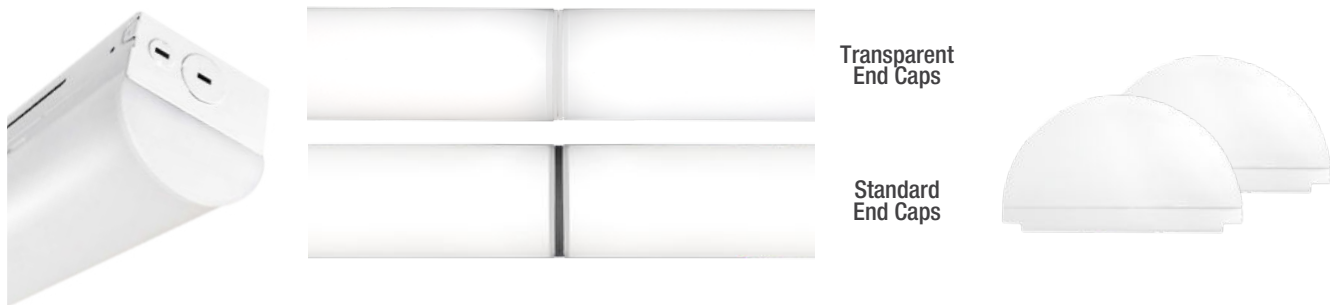
<sup>1</sup> For 96" luminaires, order 2 units.

**INCLUDED IN THE BOX**



**TRANSPARENT END CAPS**

Our transparent end caps accessory is the perfect option for creating a seamless and consistent run of light when the L2STR LED strips are mounted in a continuous row. This accessory can also be used for regular installations (non-row mounted) to create a unique and pleasant 360° illumination!



**SENSOR DAISY CHAIN FUNCTION**

The L2TRV series can be daisy chained together with L2STR series luminaires. The integrated microwave motion sensor in the L2TRV will also control the L2STR luminaires. They can either be installed in a continuous row or can be placed up to 2 m apart from one another. Refer to the installation guide for proper wiring instructions.

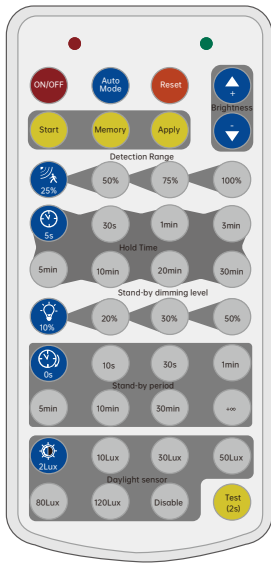
*Recommended luminaire pairings:*

L2TRV Series		L2STR Series		Daisy Chain Maximum
Order code	Model number	Order code	Model number	
69400	L2TRV-24LS1-Q/3C	69390	L2STR-24LS1-Q/3C	10 Luminaires (1 L2TRV + 9 L2STR)
69401	L2TRV-48LP40-Q/3C	69391	L2STR-48LP40-Q/3C	10 Luminaires (1 L2TRV + 9 L2STR)
69402	L2TRV-48LP45-Q/3C	69392	L2STR-48LP45-Q/3C	10 Luminaires (1 L2TRV + 9 L2STR)
69403	L2TRV-48LS2-Q/3C	69393	L2STR-48LS2-Q/3C	10 Luminaires (1 L2TRV + 9 L2STR)
69404	L2TRV-96LP90-Q/3C	69394	L2STR-96LP90-Q/3C	5 Luminaires (1 L2TRV + 4 L2STR)

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. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

### SENSOR PROGRAMMING AND SETTINGS OPTIONS

NOTE: A remote control (sold separately - order code: 69399) is required to modify sensor programming. A single remote control can be used to program multiple sensors.



Button	Function	Details
	ON/OFF	1. The "ON/OFF" button functions only to turn the luminaire ON or OFF. 2. If this button is pressed to turn off the luminaire before a short-circuit, the luminaire will remain turned off once the power is restored.
	Auto Mode	When the "Auto Mode" button is pressed, the sensor starts to work and all sensor settings will remain the same as before the luminaire was turned ON/OFF.
	Reset	When the "Reset" button is pressed, the sensor settings will return to the factory default settings: Brightness: 100% / Detection Area: 100% / Hold Time: 5 sec. / Standby Period: Disable / Daylight Threshold: Disable
	Detection Area	The defined area in which movement will trigger the motion sensor. <b>Options: 25% / 50% / 75% / 100%</b>
	Hold Time	The time period the luminaire remains at 100% illumination after no motion is detected. <b>Options: 5 sec. / 30 sec. / 1 min. / 3 min. / 5 min. / 10 min. / 20 min. / 30 min.</b>
	Standby Dimming Level	The level of dimmed low light output after the Hold Time in the long absence of motion. <b>Options: 10% / 20% / 30% / 50%</b>
	Standby Period	The time period the luminaire remains at a low light output level before it completely switches off in the long absence of motion. When set to "Disable" mode, the low light is maintained until motion is detected (Bi-Level). Note: "0 sec." means ON/OFF control. "+∞" means Bi-Level dimming control; the luminaire never turns off. <b>Options: 0 sec. / 10 sec. / 30 sec. / 1 min. / 5 min. / 10 min. / 30 min. / +∞ (Disable)</b>
	Daylight Threshold	The sensor will function whenever the ambient lux level is lower than the selected lux value. When set to "Disable" mode, the sensor will continuously function regardless of the ambient lux level. <b>Options: 2 lux / 10 lux / 30 lux / 50 lux / 80 lux / 120 lux / Disable</b>
	Test Mode	The button "Test (2s)" is used for testing purposes after sensor programming. When the button is pressed, the sensor enters into "Test Mode" and the luminaire will remain ON for 2 seconds.

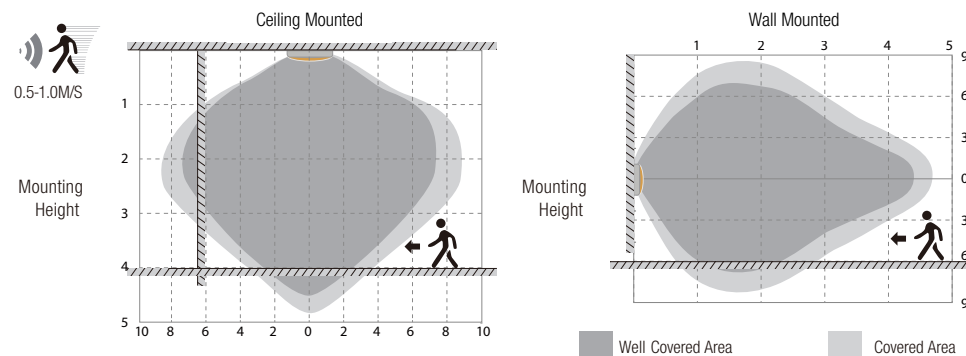
### SENSOR DEFAULT PROGRAMMING

Detection Area	100%
Hold Time	10 min.
Standby Dimming Level	50%
Standby Period	10 min.
Daylight Threshold	Disable

### SENSOR MOUNTING AND DETECTION PATTERN

Mounting Height	14.76 ft (4.5 m) max.
Detection Range	9.84 - 22.96 ft (3 - 7 m)
Detection Angle - Ceiling Mounted	360 °
Detection Angle - Wall Mounted	150 °

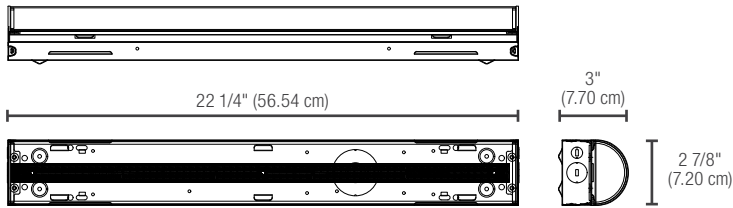
### SENSOR DETECTION COVERAGE



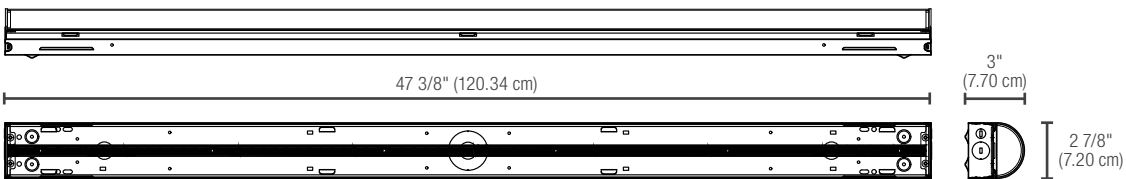
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

**DIMENSIONS AND WEIGHT**

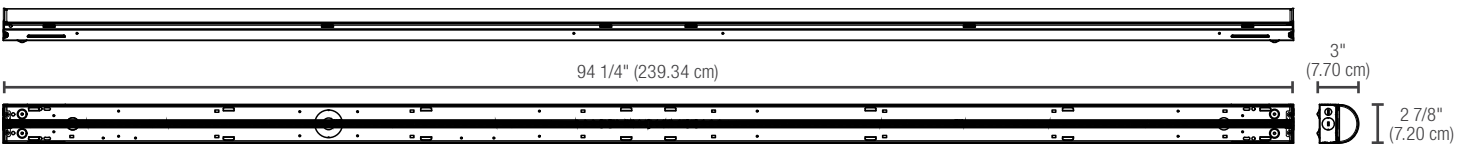
**24"**



**48"**



**96"**



	24"	48"	96"
Net weight (lbs)	2.6	4.4	8.5

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. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

# LINK

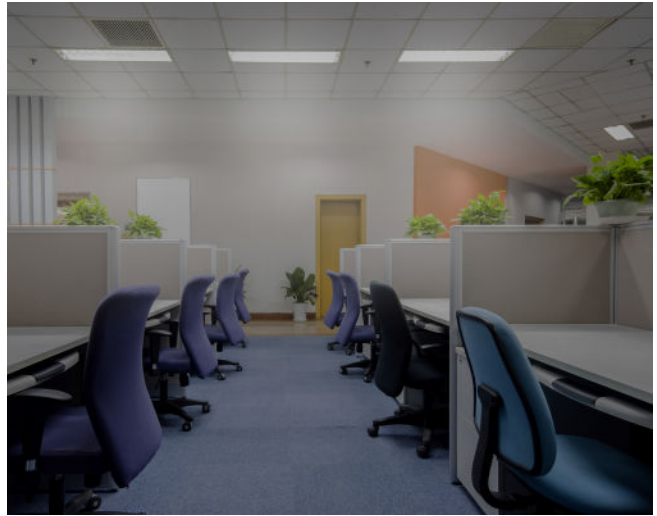
## NORMALLY ON EMERGENCY REMOTE LUMINAIRE

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 1 222 - 1 344 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.

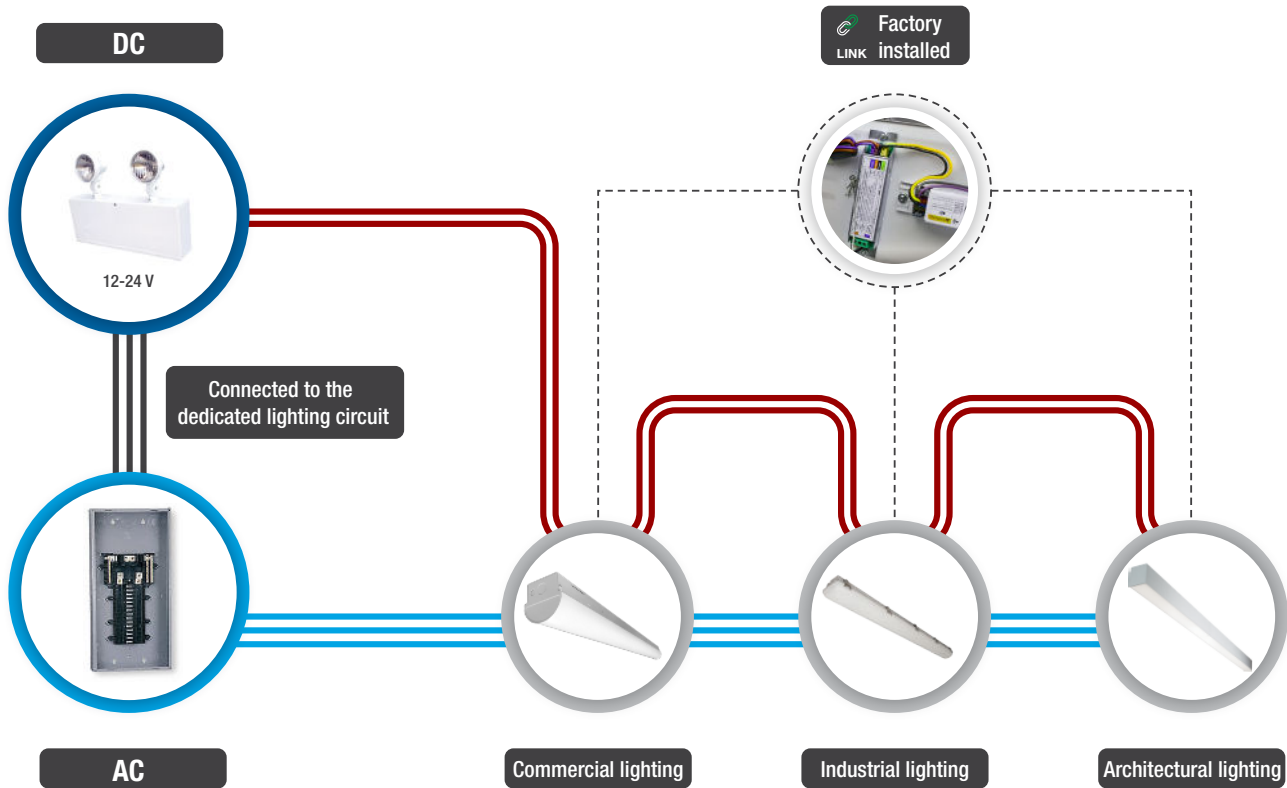
The unit shall be Stanpro model: SL\_ \_\_\_\_\_

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. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

# LINK

## NORMALLY ON EMERGENCY REMOTE LUMINAIRE

### LINK Wiring Diagram



**LEGEND**

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

Emergency mode	Spacing
L2TRV	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.

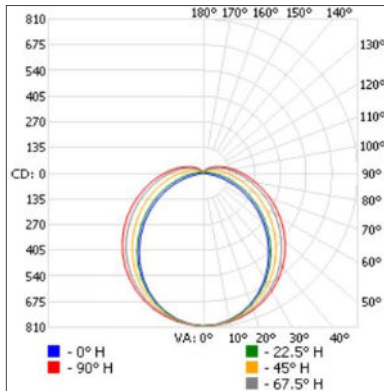
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.



**PHOTOMETRIC DATA<sup>1</sup>**

**69400 • L2TRV-24LS1-Q/3C • 4 000 K • 2 798.0 lm**

**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	619.8	22.1%
0-40	1 014.3	36.3%
0-60	1 810.2	64.7%
60-90	721.4	25.8%
70-100	506.4	18.1%
90-120	215.5	7.7%
0-90	2 531.6	90.5%
90-180	266.4	9.5%
0-180	2 798.0	100%

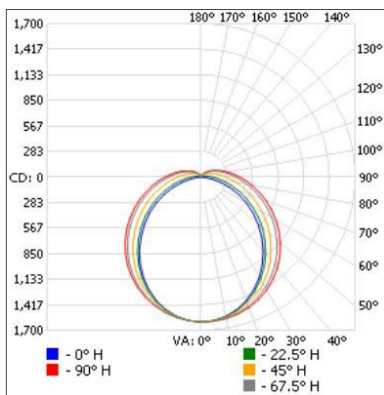
**Illuminance at a distance**

Center beam fc	Beam width
1.7'	4.1' 7.8'
3.3'	8.0' 15.1'
5.0'	12.2' 22.9'
6.7'	16.3' 30.7'
8.3'	20.2' 38.1'
10.0'	24.3' 45.9'

■ Vert. spread: 101.2°  
■ Horiz. spread: 132.9°

**69401 • L2TRV-48LP40-Q/3C • 40 W • 4 000 K • 5 675.6 lm**

**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	1 243.7	21.9%
0-40	2 036.9	35.9%
0-60	3 642.1	64.2%
60-90	1 469.0	25.9%
70-100	1 036.0	18.3%
90-120	448.9	7.9%
0-90	5 111.1	90.1%
90-180	564.5	9.9%
0-180	5 675.6	100%

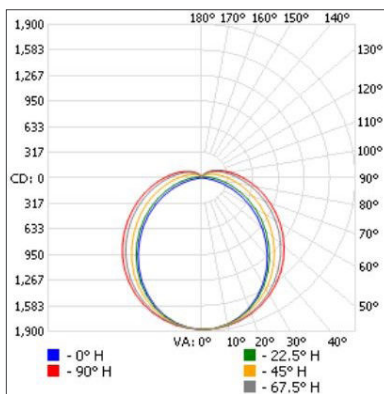
**Illuminance at a distance**

Center beam fc	Beam width
1.7'	4.2' 7.9'
3.3'	8.1' 15.3'
5.0'	12.3' 23.3'
6.7'	16.4' 31.2'
8.3'	20.3' 38.6'
10.0'	24.5' 46.5'

■ Vert. spread: 101.5°  
■ Horiz. spread: 133.5°

**69402 • L2TRV-48LP45-Q/3C • 45 W • 4 000 K • 6 655.0 lm**

**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	1 452.3	21.8%
0-40	2 378.0	35.7%
0-60	4 253.5	63.9%
60-90	1 725.2	25.9%
70-100	1 221.8	18.4%
90-120	536.0	8.1%
0-90	5 978.7	89.8%
90-180	676.3	10.2%
0-180	6 655.0	100%

**Illuminance at a distance**

Center beam fc	Beam width
1.7'	4.2' 7.9'
3.3'	8.1' 15.4'
5.0'	12.3' 23.3'
6.7'	16.5' 31.2'
8.3'	20.5' 38.6'
10.0'	24.7' 46.6'

■ Vert. spread: 101.9°  
■ Horiz. spread: 133.5°

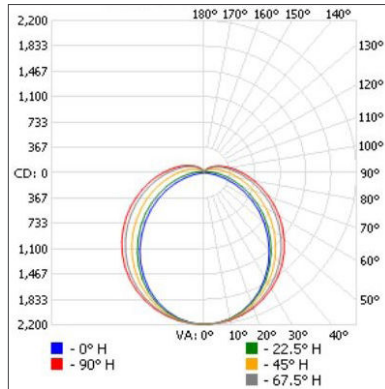
<sup>1</sup> Complete IES files available on our website.

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. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.

**PHOTOMETRIC DATA<sup>1</sup>**

69403 • L2TRV-48LS2-Q/3C • 4 000 K • 7 778.3 lm

**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	1 697.9	21.8%
0-40	2 781.2	35.8%
0-60	4 976.0	64%
60-90	2 015.4	25.9%
70-100	1 425.7	18.3%
90-120	623.6	8%
0-90	6 991.3	89.9%
90-180	786.9	10.1%
0-180	7 778.3	100%

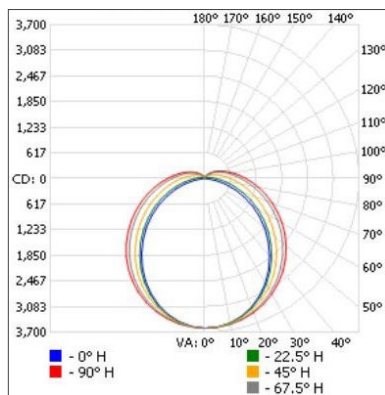
**Illuminance at a distance**

Center beam fc		Beam width	
1.7'	759	4.2'	8.0'
3.3'	201	8.1'	15.5'
5.0'	87.7	12.3'	23.5'
6.7'	48.8	16.4'	31.5'
8.3'	31.8	20.4'	39.0'
10.0'	21.9	24.5'	47.0'

■ Vert. spread: 101.7°  
■ Horiz. spread: 133.9°

69404 • L2TRV-96LP90-Q/3C • 90 W • 4 000 K • 12 770.5 lm

**Polar candela distribution**



**Zonal lumen summary**

Zone	Lumens	% Fixture
0-30	2 786.8	21.8%
0-40	4 563.1	35.7%
0-60	8 162.1	63.9%
60-90	3 310.5	25.9%
70-100	2 344.6	18.4%
90-120	1 028.6	8.1%
0-90	11 472.6	89.8%
90-180	1 297.9	10.2%
0-180	12 770.5	100%

**Illuminance at a distance**

Center beam fc		Beam width	
1.7'	1 246	4.2'	7.9'
3.3'	331	8.1'	15.4'
5.0'	144	12.3'	23.3'
6.7'	80.2	16.5'	31.2'
8.3'	52.3	20.5'	38.6'
10.0'	36.0	24.7'	46.6'

■ Vert. spread: 101.9°  
■ Horiz. spread: 133.5°

<sup>1</sup> Complete IES files available on our website.

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. Please contact your Stanpro customer service representative to confirm inventory levels at time of order.