

Project: _____

Type: _____

Drawn by: _____ Catalogue #: _____

Date: _____

L2TLV

TRI-LEVEL MOTION SENSOR LED STRIP

3 CCT and 3 Power Selectable

Optional Emergency Remote

The L2TLV series LED strip lights feature an integrated tri-level microwave motion sensor that regulates light levels according to the occupancy of a space. These luminaires have been specially designed to prevent energy loss and to increase energy savings, by allowing the end-user to sensibly manage the degree of luminosity in applications or spaces that require continuous lighting, such hallways and common areas.

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 and power select switches are 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

- Integrated tri-level microwave (high frequency) motion sensor
- Available in both 4 000 K single color temperature, or 3 500/4 000/5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120 - 347 V
- Estimated life of over 155 000 hours to L70
- 2.5 kV surge protection
- Operating temperature: -20 °C to 50 °C (-4 °F to 122 °F)

• Optional Emergency Lighting

LINK Normally ON Emergency Remote Tri-Level Motion Sensor LED Strip

- Consuming 11 W, 12 -24 V DC
- 200 mA constant current
- Delivers 1 204 - 1 300 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 tri-level motion sensor 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) | 18 - 90 |
| Lumen output (lm) | 2 592 - 12 330 |
| Efficacy (lm/W) | 124 - 146 |
| Color temperature (K) | 3 500, 4 000, 5 000 |
| CRI | 80+ |
| Weight (lbs) | 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 | Volts | Color temp. | Lumen output | Efficacy | CRI | Life L70 | Tested hours LM-80 | Power factor | THD | Master case qty |
|---|----------------------|-----------------|---------|-------------------|----------------------------------|----------|-----|--------------------|--------------------|--------------|-----|-----------------|
| | | (W) | (V AC) | (K) ¹ | (lm) ² | (lm/W) | | (hrs) ⁴ | (hrs) ⁴ | | (%) | |
| 48" | | | | | | | | | | | | |
| 68023 | L2TLV-48LS1-Q/40K | 30 | 120-347 | 4 000 | 4 585 | 131 | 80+ | 155 000 | 9 000 | 0.90 | 10 | 6 |
| 48" with Emergency Remote Feature | | | | | | | | | | | | |
| 69115 | L2TLV-48LS1-Q/40K/EL | 11 ⁵ | 120-347 | 4 000 | 4 585 | 131 | 80+ | 155 000 | 9 000 | 0.90 | 10 | 6 |
| 48" CCT and Power Selectable | | | | | | | | | | | | |
| 68543 | L2TLV-48LP40-Q/3C | 18/30/40 | 120-347 | 3 500/4 000/5 000 | 2 610/4 170/5 320 ³ | 132 | 80+ | 190 000 | 9 000 | 0.90 | 10 | 6 |
| 48" CCT and Power Selectable with Emergency Remote Feature | | | | | | | | | | | | |
| 69116 | L2TLV-48LP40-Q/3C/EL | 11 ⁵ | 120-347 | 3 500/4 000/5 000 | 2 610/4 170/5 320 ³ | 132 | 80+ | 190 000 | 9 000 | 0.90 | 10 | 6 |
| 96" | | | | | | | | | | | | |
| 68544 | L2TLV-96LS1-Q/40K | 65 | 120-347 | 4 000 | 8 645 | 133 | 80+ | 190 000 | 9 000 | 0.90 | 10 | 1 |
| 96" CCT and Power Selectable | | | | | | | | | | | | |
| 68545 | L2TLV-96LP90-Q/3C | 65/75/90 | 120-347 | 3 500/4 000/5 000 | 9 230/10 425/12 240 ³ | 135 | 80+ | 190 000 | 9 000 | 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 based on 4 000 K default programming. 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 When in emergency mode, luminaire only consumes 11 W.

For emergency lighting spacing, please see page 5.

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) |
| 68543 | L2TLV-48LP40-Q/3C | 18 | 2 592 | 144 | 2 610 | 145 | 2 628 | 146 |
| | | 30 | 4 140 | 138 | 4 170 | 139 | 4 200 | 140 |
| | | 40 | 5 280 | 132 | 5 320 | 133 | 5 360 | 134 |
| 68545 | L2TLV-96LP90-Q/3C | 65 | 9 165 | 135 | 9 230 | 142 | 9 295 | 143 |
| | | 75 | 10 350 | 138 | 10 425 | 139 | 10 500 | 140 |
| | | 90 | 12 150 | 135 | 12 240 | 136 | 12 330 | 137 |

DEFAULT PROGRAMMING

68543: 40 W / 4 000 K

68545: 75 W / 4 000 K

DLC UNIQUE ID TABLE

| Order Code | Model Number | DLC Premium Unique ID ¹ | DLC Standard Unique ID ² |
|------------|-------------------|------------------------------------|-------------------------------------|
| 68023 | L2TLV-48LS1-Q/40K | S-Y1RTAZ | IN PROCESS |
| 68543 | L2TLV-48LP40-Q/3C | S-6W9E7G | PLCJNFO1TI90 |
| 68545 | L2TLV-96LP90-Q/3C | S-7HSGN1 | PL00HLOJS4M0 |

¹ Primary Use Designation: Stairwell And Passageway Luminaires

² Primary Use Designation: Direct Linear Ambient Luminaires

ORDERING GUIDE

| Series | Size | Lamp type | Lumen package (W) ¹ | Volts (V AC) | Color temp. (K) | Options |
|--------|----------------------|-----------|--|--------------|---|---|
| L2TLV | 48 - 48" 96 - 96" | L - LED | S1 - 35 P40 - 18/30/40 S1 - 65 P90 - 65/75/90 | Q - 120-347 | 40K - 4 000 ² 3C - 3 500/4 000/5 000 ³ | EL - LINK Normally ON emergency remote ^{4,5} |

¹ See IES files or LUMEN SPECIFICATION TABLE for details.

² Only available with 48LS1 and 96LS1 lumen packages.

³ Only available with 48LP40 and 96LP90 lumen packages.

⁴ In emergency mode, half of the 96" luminaire will remain illuminated.

⁵ When in emergency mode, luminaire only consumes 11 W.

For emergency lighting spacing, please see page 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.

LINK TECHNICAL SPECIFICATION TABLE

| Size | Lumen package | Watts (W) | LINK Watts (W) | LINK lumen output (lm) |
|------|---------------|-----------|----------------|------------------------|
| 48" | LS1 | 35 | 11 | 1 216 |
| | | 18 | | 1 267 |
| | LP40 | 30 | | 1 277 |
| | | 40 | | 1 282 |
| 96" | LS1 | 65 | | 1 204 |
| | | 65 | | 1 300 |
| | LP90 | 75 | | 1 243 |
| | | 90 | | 1 248 |

ACCESSORIES (order separately)

| Order code | Type |
|------------|-------------------------------------|
| 68676 | Suspension kit - 2 chains (1 meter) |
| 68677 | Continuous row mounting connector |
| 68622 | Wireguard kit 48" |
| 68857 | Wireguard kit 96" |
| 68679 | Replacement lens 48" |
| 68680 | Replacement lens 96" |
| 68681 | Remote control for motion sensor |

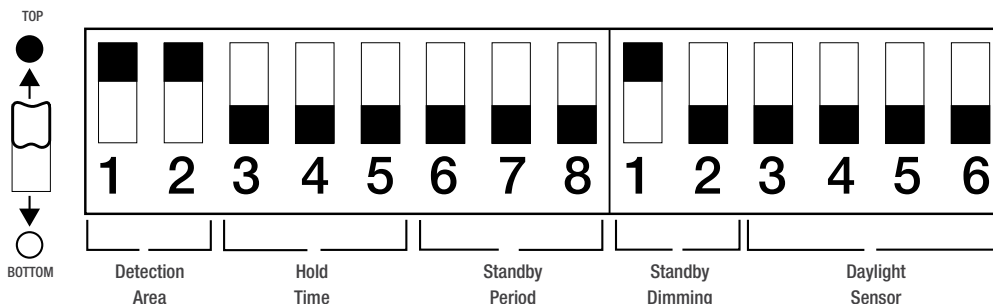
CONTINUOUS ROW MOUNTING FEATURE

The L2TLV series luminaires can be continuously row mounted (daisy-chained) together with L2STN series luminaires. The integrated microwave motion sensor in the L2TLV luminaires will also control the L2STN luminaires. Refer to the installation guide for proper wiring instructions.

Recommended luminaire pairings:

| L2TLV Series | | L2STN Series | | Watts (W) | Continuous Row Mounting Maximum | |
|--------------|-------------------|--------------|-------------------|-----------|---------------------------------------|---------------------------------------|
| Order code | Model number | Order code | Model number | | 120 V | 347 V |
| 68023 | L2TLV-48LS1-Q/40K | 68123 | L2STN-48LS3-Q/40K | 35 | 11 Luminaires (1 L2TLV + 10 L2STN) | 29 Luminaires (1 L2TLV + 28 L2STN) |
| 68543 | L2TLV-48LP40-Q/3C | 68540 | L2STN-48LP40-Q/3C | 18 | 24 Luminaires (1 L2TLV + 23 L2STN) | 66 Luminaires (1 L2TLV + 65 L2STN) |
| | | | | 30 | 14 Luminaires (1 L2TLV + 13 L2STN) | 37 Luminaires (1 L2TLV + 36 L2STN) |
| | | | | 40 | 11 Luminaires (1 L2TLV + 10 L2STN) | 27 Luminaires (1 L2TLV + 26 L2STN) |
| 68544 | L2TLV-96LS1-Q/40K | 68128 | L2STN-96LS1-Q/40K | 65 | 6 Luminaires (1 L2TLV + 5 L2STN) | 17 Luminaires (1 L2TLV + 16 L2STN) |
| 68545 | L2TLV-96LP90-Q/3C | 68541 | L2STN-96LP90-Q/3C | 65 | 6 Luminaires (1 L2TLV + 5 L2STN) | 17 Luminaires (1 L2TLV + 16 L2STN) |
| | | | | 75 | 5 Luminaires (1 L2TLV + 4 L2STN) | 15 Luminaires (1 L2TLV + 14 L2STN) |
| | | | | 90 | 5 Luminaires (1 L2TLV + 4 L2STN) | 12 Luminaires (1 L2TLV + 11 L2STN) |

PROGRAMMING SETTINGS



DEFAULT PROGRAMMING

| |
|--------------------------|
| Detection Area: 100% |
| Hold Time: 30 min |
| Standby Period: +∞ |
| Standby Dimming: 20% |
| Daylight Sensor: Disable |

DETECTION PATTERN

| | |
|------------------------------------|-----------------|
| Detection Distance | 12m x 8m (Max.) |
| Detection Angle – Wall Mounting | 150° |
| Detection Angle – Ceiling Mounting | 360° |

SENSOR ON-OFF DIMMING SETTING OPTIONS

DETECTION AREA

The detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

DIP Switch Options: 100% - 75% - 50% - 25%

Remote Control Options: 100% - 75% - 50% - 25%

| | 1 | 2 |
|------|---|---|
| 100% | ● | ● |
| 75% | ● | ○ |
| 50% | ○ | ● |
| 25% | ○ | ○ |

HOLD TIME

The time period the luminaire remains at 100% illumination after no motion is detected.

DIP Switch Options: 8s - 30s - 1 min - 5 min - 10 min - 15 min - 30 min

Remote Control Options: 8s - 1 min - 5 min - 15 min - 30 min

| | 3 | 4 | 5 |
|--------|---|---|---|
| 8 s | ● | ● | ● |
| 30 s | ● | ○ | ● |
| 1 min | ○ | ● | ● |
| 5 min | ● | ○ | ○ |
| 10 min | ○ | ● | ○ |
| 15 min | ○ | ○ | ● |
| 30 min | ○ | ○ | ○ |

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).

DIP Switch Options: 0s - 1 min - 3 min - 5 min - 10 min - 30 min - +∞ (DISABLE)

Remote Control Options: 0s - 1 min - 5 min - 30 min - +∞ (DISABLE)

Note: "0s" means ON/OFF control;

"+∞" means bi-level dimming control, luminaire never switches off when daylight sensor is disabled.

| | 6 | 7 | 8 |
|--------|---|---|---|
| 0 s | ● | ● | ● |
| 1 min | ● | ○ | ● |
| 3 min | ○ | ● | ● |
| 5 min | ● | ○ | ○ |
| 10 min | ○ | ● | ○ |
| 30 min | ○ | ○ | ● |
| + ∞ | ○ | ○ | ○ |

STANDBY DIMMING LEVEL

The level of dimmed low light output after the hold time in the long absence of motion.

DIP Switch Options: 10% - 20% - 30% - 40%

Remote Control Options: 10% - 20% - 30% - 40% - 50%

| | 1 | 2 |
|-----|---|---|
| 10% | ● | ● |
| 20% | ● | ○ |
| 30% | ○ | ● |
| 40% | ○ | ○ |

DAYLIGHT SENSOR

The daylight threshold can be captured and configured on the DIP switches to fit a particular application.

DIP Switch Options: 5 lux - 15 lux - 30 lux - 50 lux - 100 lux - 150 lux - +∞ (DISABLE)

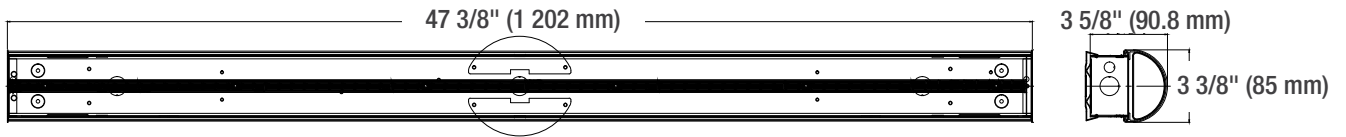
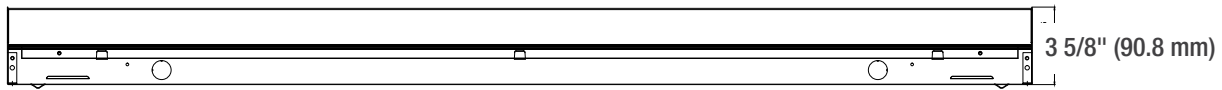
Remote Control Options: 5 lux - 15 lux - 50 lux - 150 lux - +∞ (DISABLE)

| | 3 | 4 | 5 | 6 |
|---------|---|---|---|---|
| 5 lux | ● | ● | ● | ● |
| 15 lux | ○ | ● | ● | ● |
| 30 lux | ● | ○ | ● | ● |
| 50 lux | ○ | ○ | ● | ● |
| 100 lux | ● | ● | ○ | ● |
| 150 lux | ● | ● | ● | ○ |
| + ∞ | ○ | ○ | ○ | ○ |

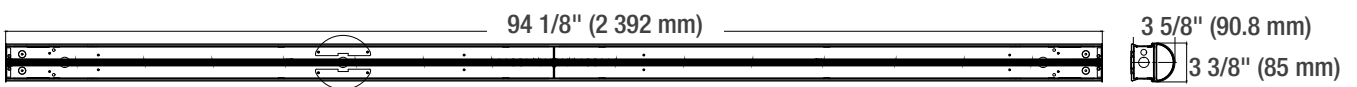
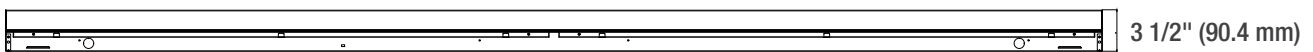
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

DIMENSIONS

48"



96"



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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, tri-level motion sensor 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, the luminaire shall act as an emergency lighting remote and consume 11 W of DC power in _____ V producing 1 204 - 1 300 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_ _____

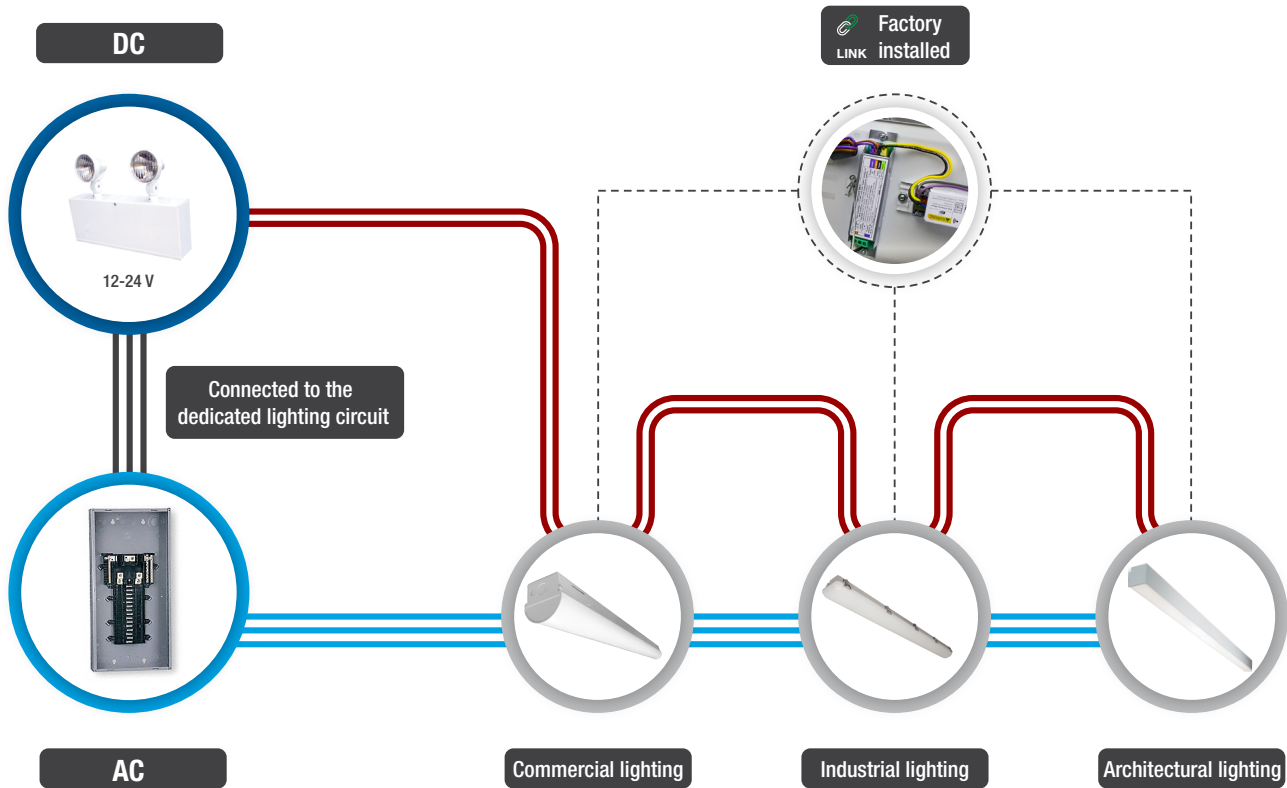
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LINK

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

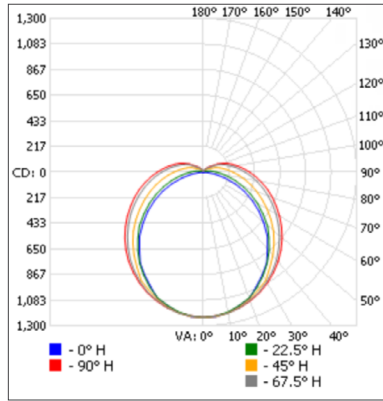
| Emergency mode | Spacing |
|----------------|---|
| L2TLV | Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights. |

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

68023 • L2TLV-48LS1-Q/40K • 4 665.8 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|--------|---------|-----------|
| 0-30 | 954.9 | 20.5% |
| 0-40 | 1 569.9 | 33.7% |
| 0-60 | 2 846.5 | 61.1% |
| 60-90 | 1 266.3 | 27.2% |
| 70-100 | 939.6 | 20.2% |
| 90-120 | 442.1 | 9.5% |
| 0-90 | 4 112.8 | 88.3% |
| 90-180 | 543.0 | 11.7% |
| 0-180 | 4 655.8 | 100% |

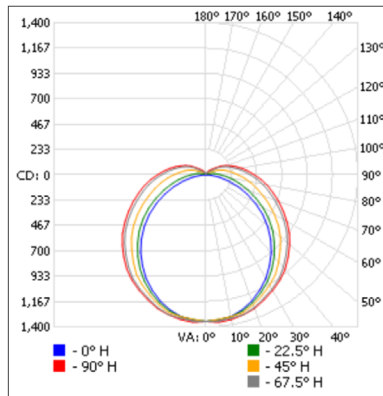
Illuminance at a distance

| Center beam fc | | Beam width | |
|----------------|------|------------|-------|
| 1.7' | 426 | 4.5' | 9.7' |
| 3.3' | 113 | 8.7' | 18.8' |
| 5.0' | 49.2 | 13.2' | 28.4' |
| 6.7' | 27.4 | 17.7' | 38.1' |
| 8.3' | 17.9 | 21.9' | 47.2' |
| 10.0' | 12.3 | 26.4' | 56.9' |

■ Vert. spread: 107.4°
■ Horiz. spread: 144.4°

68543 • L2TLV-48LP40-Q/3C • 40 W • 4 000 K • 5 316.5 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|--------|---------|-----------|
| 0-30 | 1 062.9 | 20% |
| 0-40 | 1 758.3 | 33.1% |
| 0-60 | 3 223.1 | 60.6% |
| 60-90 | 1 468.8 | 27.6% |
| 70-100 | 1 097.2 | 20.6% |
| 90-120 | 515.8 | 9.7% |
| 0-90 | 4 691.9 | 88.3% |
| 90-180 | 624.6 | 11.7% |
| 0-180 | 5 316.5 | 100% |

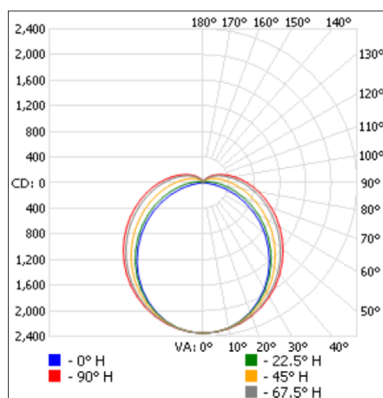
Illuminance at a distance

| Center beam fc | | Beam width | |
|----------------|------|------------|-------|
| 1.7' | 467 | 4.6' | 10.6' |
| 3.3' | 124 | 9.0' | 20.6' |
| 5.0' | 54.0 | 13.6' | 31.2' |
| 6.7' | 30.1 | 18.2' | 41.8' |
| 8.3' | 19.6 | 22.6' | 51.7' |
| 10.0' | 13.5 | 27.2' | 62.3' |

■ Vert. spread: 107.4°
■ Horiz. spread: 144.4°

68544 • L2TLV-96LS1-Q/40K • 8 638.7 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|--------|---------|-----------|
| 0-30 | 1 819.8 | 20.1% |
| 0-40 | 2 984.9 | 34.6% |
| 0-60 | 5 377.5 | 62.2% |
| 60-90 | 2 301.2 | 26.6% |
| 70-100 | 1 669.0 | 19.3% |
| 90-120 | 755.0 | 8.7% |
| 0-90 | 7 678.8 | 88.9% |
| 90-180 | 959.9 | 11.1% |
| 0-180 | 8 638.7 | 100% |

Illuminance at a distance

| Center beam fc | | Beam width | |
|----------------|------|------------|-------|
| 1.7' | 812 | 4.4' | 8.5' |
| 3.3' | 216 | 8.6' | 16.5' |
| 5.0' | 93.9 | 13.1' | 25.0' |
| 6.7' | 52.3 | 17.5' | 33.5' |
| 8.3' | 34.1 | 21.7' | 41.5' |
| 10.0' | 23.5 | 26.1' | 50.0' |

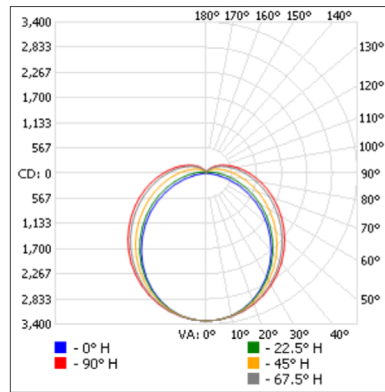
■ Vert. spread: 105.2°
■ Horiz. spread: 136.4°

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

68545 • L2TLV-96LP90-Q/3C • 90 W • 4 000 K • 12 232.6 lm

Polar candela distribution



Zonal lumen summary

| Zone | Lumens | % Fixture |
|--------|----------|-----------|
| 0-30 | 2 576.9 | 21.1% |
| 0-40 | 4 226.8 | 34.6% |
| 0-60 | 7 614.8 | 62.2% |
| 60-90 | 3 258.6 | 26.6% |
| 70-100 | 2 363.3 | 19.3% |
| 90-120 | 1 069.9 | 8.7% |
| 0-90 | 10 873.4 | 88.9% |
| 90-180 | 1 359.3 | 11.1% |
| 0-180 | 12 232.6 | 100% |

Illuminance at a distance

| Center beam fc | | Beam width | |
|----------------|------|------------|-------|
| 1.7' | 1150 | 4.4' | 8.5' |
| 3.3' | 305 | 8.6' | 16.5' |
| 5.0' | 133 | 13.1' | 25.0' |
| 6.7' | 74.0 | 17.5' | 33.5' |
| 8.3' | 48.3 | 21.7' | 41.5' |
| 10.0' | 33.2 | 26.1' | 50.0' |

■ Vert. spread: 105.2°
■ Horiz. spread: 136.4°

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.