

Individual Spec Sheet

L2TLV

TRI-LEVEL MOTION SENSOR LED STRIP

3 CCT and 3 Power Selectable

ORDERING INFORMATION

Order code: 68545
Model number: L2TLV-96LP90-Q/3C
UPC: 069549017184
Case quantity: 1
DLC unique ID: S-7HSGN1 (DLC Premium) / PL00HLOJS4M0 (DLC Standard)

PHYSICAL DATA

Length in. (cm): 94 1/8 (239.20)
Lens material: Frosted PMMA
Housing material: 24 gauge white powder painted steel
Mounting: Surface, suspended or row mounted (V-Hooks, mounting brackets and junction box cover included)
Sensor: Integrated tri-level microwave (high frequency) motion sensor

PERFORMANCE DATA

Watts (W): 65/75/90
Volts (VAC): 120-347
Color temperature (K)¹: 3 500/4 000/5 000
Lumen output (lm)²: 9 230/10 425/12 240
Efficiency (lm/W): 135
CRI: 80+
Life L70 (h)³: 190 000
Tested LM-80 (h)³: 9 000
Power factor: 0.90
THD (%): 10
Frequency (Hz): 50/60
Surge protection (kV): 2.5
Input current (A): 0.54-0.19/0.63-0.22/0.75-0.26
Operating temp. range: -20°C to 50°C (-4°F to 122°F)

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

² Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

³ Life hours are derived from IESNA LM80-08 testing report and projected per IESNA TM-21-11 extrapolations.

LUMEN SPECIFICATION TABLE

Watts (W)	3 500 K		4 000 K		5 000 K	
	Lumen output (lm)	Efficiency (lm/W)	Lumen output (lm)	Efficiency (lm/W)	Lumen output (lm)	Efficiency (lm/W)
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
75 W / 4 000 K

ACCESSORIES (order separately)

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

This lighting equipment meets requirements of ICES-005 issue 5 class A for use in commercial applications. Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice.



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.

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

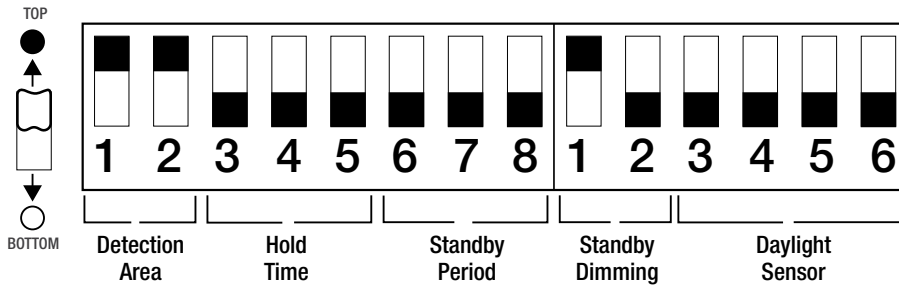
The daylight threshold can be captured and configured on the DIP switches to fit a particular application.

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	●	●	●	○
+ ∞	○	○	○	○

PROGRAMMING SETTINGS



DEFAULT PROGRAMMING

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

DETECTION PATTERN

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

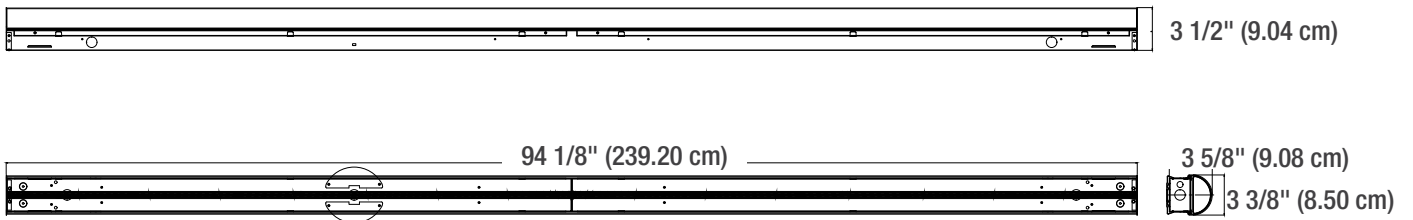
CONTINUOUS ROW MOUNTING FEATURE

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
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)

DIMENSIONS



Qty	Description	Price

I accept the specifications of the luminaire configuration mentioned above.

Name: _____

Company: _____

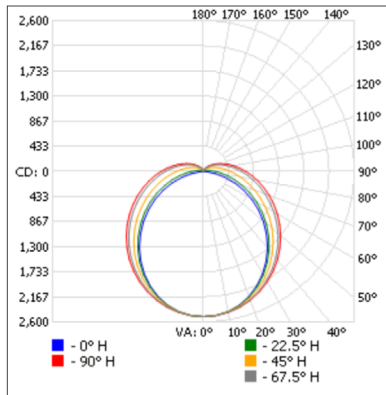
Signature: _____ Date: _____

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.

PHOTOMETRIC DATA¹

68545 • L2TLV-96LP90-Q/3C • 65 W • 4 000 K • 9 224.5 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 943.2	21.1%
0-40	3 187.3	34.6%
0-60	5 742.2	62.2%
60-90	2 457.3	26.6%
70-100	1 782.1	19.3%
90-120	806.8	8.7%
0-90	8 199.4	88.9%
90-180	1 025.0	11.1%
0-180	9 224.5	100%

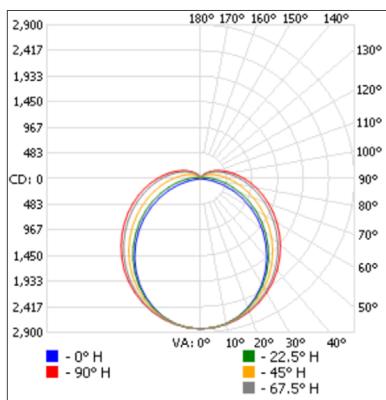
Illuminance at a distance

Center beam fc	Beam width
1.7'	867 fc
3.3'	230 fc
5.0'	100 fc
6.7'	55.8 fc
8.3'	36.4 fc
10.0'	25.1 fc

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

68545 • L2TLV-96LP90-Q/3C • 75 W • 4 000 K • 10 418.7 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 194.7	21.1%
0-40	3 600.0	34.6%
0-60	6 485.6	62.2%
60-90	2 775.4	26.6%
70-100	2 012.9	19.3%
90-120	911.3	8.7%
0-90	9 261.0	88.9%
90-180	1 157.7	11.1%
0-180	10 418.7	100%

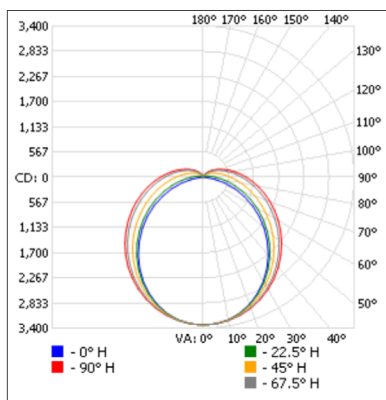
Illuminance at a distance

Center beam fc	Beam width
1.7'	980 fc
3.3'	260 fc
5.0'	113 fc
6.7'	63.1 fc
8.3'	41.1 fc
10.0'	28.3 fc

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

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'	1 150 fc
3.3'	305 fc
5.0'	133 fc
6.7'	74.0 fc
8.3'	48.3 fc
10.0'	33.2 fc

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

¹ Complete IES files available on our website.

Qty	Description	Price

I accept the specifications of the luminaire configuration mentioned above.

Name: _____
 Company: _____
 Signature: _____

Date: _____

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