

NS LED



CASAMBI

APPLICATION

The LED slim strip light series are more efficient and compact. The LED technology used illuminates a crisper brightness while saving more energy to that of the traditional lights. Its functionality makes it a standard fixture used in storage areas, displays, institutions, industrial and retail applications.

FEATURES:

- Die-formed steel channel with knock-outs for versatile configuration and simple mounting.
- Available for individual unit only.
- Finish is high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.
- Paint after fabrication.

MOUNTING:

- Ceiling/surface mount and pendant mount with chains, stems or cables.
- Compatible with most ceiling types.

LED:

- High quality array LEDs.
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Standard CRI: >82.8
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

ELECTRICAL:

- High power factor electronic driver, operate from 120-277V standard input range, 50/60Hz.
- Over voltage protection, surge, short circuit protection and over load protection included.
- Power Factor: >0.95
- THD: <20
- Class 1 or Class 2
- 0-10V dimming standard.
- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

LISTING:

- UL/cUL listed.
- Listed to UL 1598 and UL 8750.
- Suitable for damp locations.
- CEC Compliant EM (contact for more information).
- ARRA compliant (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- 5 years warranty.
- 7 or 10 years limited warranty. (optional)⁵
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	Model #	AC Input	Lumen Output (3000K)	Lumen Efficiency (3000K)	Im Lumen Output (3500K)	Lumen Efficiency (3500K)	Lumen Output (4000K)	Lumen Efficiency (4000K)	Lumen Output (5000K)	Lumen Efficiency (5000K)
NS	2FT	L18	19.2W	2589.91 lm	134.89 lm/W	2646.68 lm	137.84 lm/W	2676.42 lm	139.39 lm/W	2703.46 lm	140.80 lm/W
		L27	29.7W	4060.03 lm	136.70 lm/W	4149.05 lm	139.69 lm/W	4195.55 lm	141.26 lm/W	4379.70 lm	147.46 lm/W
		L36	37.26W	5093.57 lm	136.70 lm/W	5205.22 lm	139.70 lm/W	5263.70 lm	141.27 lm/W	5494.46 lm	147.46 lm/W
	4FT	L27	29.9W	3990.12 lm	133.44 lm/W	4090.71 lm	136.81 lm/W	4141.02 lm	138.49 lm/W	4191.30 lm	140.17 lm/W
		L36	39.33W	5294.42 lm	134.61 lm/W	5427.90 lm	138 lm/W	5494.63 lm	139.70 lm/W	5561.37 lm	141.40 lm/W
		L54	57.36W	7739.06 lm	134.92 lm/W	7934.18 lm	138.32 lm/W	8031.72 lm	140.02 lm/W	8129.27 lm	141.72 lm/W
		L72	76.48W	10318.48 lm	134.91 lm/W	10855.17 lm	141.93 lm/W	10988.58 lm	143.67 lm/W	11118.53 lm	145.37 lm/W
	8FT	L27	29.9W	4265.07 lm	142.64 lm/W	4363.31 lm	145.93 lm/W	4416.89 lm	147.72 lm/W	4466.17 lm	149.37 lm/W
		L36	39.33W	5610.21 lm	142.64 lm/W	5739.43 lm	145.93 lm/W	5809.92 lm	147.72 lm/W	5874.73 lm	149.37 lm/W
		L54	57.81W	8246.30 lm	142.64 lm/W	8436.25 lm	145.93 lm/W	8539.87 lm	147.72 lm/W	8634.85 lm	149.36 lm/W
		L72	78.2W	11025.47 lm	141 lm/W	11279.45 lm	144.23 lm/W	11418 lm	146.01 lm/W	11545 lm	147.63 lm/W
		L108	105.4W	14888.09 lm	141.25 lm/W	15231.07 lm	144.50 lm/W	15418.14 lm	146.28 lm/W	15589.62 lm	147.90 lm/W
		L144	140.53W	19850.02 lm	141.25 lm/W	20307.54 lm	144.50 lm/W	20557.38 lm	146.28 lm/W	20783.81 lm	147.89 lm/W

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ORDERING INFORMATION

EXAMPLE: NS-4-L36-40K-UNV

MODEL	LENGTH	LED	COLOR TEMP.	EFFICACY	CRI	
NS	2' Length ³	(Blank) Wiring for Individual mount (Std.)	L18 L27 L36	18W LED 27W LED 36W LED	<p>-27K -30K -35K -40K -50K</p> <p>2700K⁸ 3000K 3500K 4000K 5000K</p> <p>(Blank) HE</p> <p>Standard High Efficacy </p>	<p>(Blank) C9</p> <p>80+ CRI 90+ CRI⁹</p>
	4' Length		L27 L36 L54 L72	27W LED 36W LED 54W LED 72W LED		
	8' Length ¹		L27 L36 L54 L72 L108 L144	27W LED 36W LED 54W LED 72W LED 108W LED 144W LED		
<p>* Number of circuit(s) should be determined by the customer prior to ordering the continuous run considering the AC input voltage and total run wattage.</p> <p>* Contact factory for custom wattage or lumen requirement.</p>						

VOLTAGE		MOUNTING				Fixture Finish		CORD FINISH (for pendant)					
UNV	120-277V (Std.)	(Blank)	Ceiling Mount	(Blank)	Semi-Glossy White (Std.)	(Blank)	White (Std.)						
120	120V	VH	V-Hook	*BK	Black (RAL#9011)	*BKC	Black						
277	277V	CHxx	Chain for use with V-hook (xx=length)	**CC	Custom Color ¹⁰	<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>							
347	347V	ACxx	Adjustable Aircraft Cable w/ Canopy (* xx = Specify length (48 or 96))	*AMB	Anti-Microbial Coating (Matte Skye White)								
480	480V	SH-3/8-xx	3/8" IPS STEM w/ Canopy										
		SH-1/2-xx	1/2" IPS STEM w/ Canopy (* xx = 18, 24, 36, 48 inches)										
		IDS	T-Bar Clip for Surface Mount										

CANOPY FINISH (for pendant)		CEILING TYPE (for pendant)		SUSPENSION LENGTH		LED DRIVER ⁴					
(Blank)	White (Std.)	X1	15/16" grid T-bar ceiling	AC48	Adjustable Aircraft Cable Canopy 48" L	GR	Generic, 0-10V 10% dim (Std.)				
*BC	Black Canopy	X2	Hard ceiling	AC96	Adjustable Aircraft Cable Canopy 96" L	DM1	Generic 0-10V 1% dim				
*SC	Silver Canopy	X3	Sloped Hard ceiling	ST24	Stem Canopy 24" L	SD40	40% / 100% Bi-Level Step dim				
**CSS	Custom Canopy Color (White is Std.)	X4	9/16" T-bar ceiling	ST48	Stem Canopy 48" L	SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>											
<p>* Contact factory for custom length.</p>											
(Blank)	White (Std.)	X5	9/16" Screw Slot ceiling			TDM	Triac Dim. (120V only)				
*BC	Black Canopy			TD30/70	30% / 70% / 100% Tri-Level Step dim	TDXX/YY	XX% / YY% / 100% Tri-Level Step dim				
*SC	Silver Canopy					<p>(Specify XX, YY : 10% ~ 70%)</p> <p>eldoLED ECODrive 0-10V natural dim to 1% (Hybrid HydraDrive)</p>					
**CSS	Custom Canopy Color (White is Std.)			EC	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	ES566	Philips Xitanium Sensor-Ready, Dali 5%~100% dim				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>						LDE1	Philips Xitanium DALI driver, Dim to 5%				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>						TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>						ND	Driver prewired for non-dimming applications				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>						DIMT	Tri-mode dimming (Triac, ELV, 0-10V)				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>						LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)				
<p>* Non-standard finish with extra charge.</p> <p>** Additional charge & set up fee.</p>						BLT	Bluetooth Mesh System (contact factory for more information)				

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OPTIONS	
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}
ELCU-200	Fail-to-on Emergency lighting, UL924 ⁷
GTD	Bodine Generator Transfer Device
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)
ARRA	Assembled in USA for Buy American Act
BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant
TAA	Trade Agreements Act compliant
LOS-502S	Fixture external mount, PIR Occupancy Sensor, no dimming support, 120/277V with standard cone shape lens (15ft) with 1.18" extension joint. Adjustable through a dip switch
O7W	Optional 7 Years Limited Warranty ⁵
O10W	Optional 10 Years Limited Warranty ⁵
COC	Separated EM feed for City of Chicago code compliance
JC4	4" Octagon shape junction box cover plate
WGN	Narrow Wireguard

LIGHTING CONTROL SYSTEM	
PPA102S	<Bluetooth> Bluetooth Powerpack (Consult factory for installation location)
CASAMBI	Contact factory for CASAMBI READY options

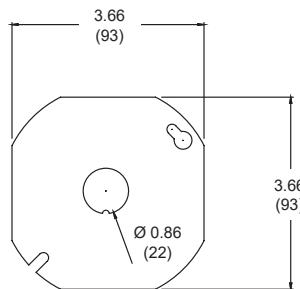
NOTES:

1. Tandem units.
2. Contact factory for more emergency options.
3. For EM options, only EMG5 and EMG8 are available.
4. Refer to Table1 to find compatible dimmer switch.
5. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
6. Not available with 347V and 480V.
7. Shipped separately.
8. Available with C9 (90+ CRI) only.
9. Lumen per watt is around 15% less than standard CRI (80+).
10. Refer to color chart (RAL and/or Cardinal) in the separate attachment and indicate color code.

Specifications: NS

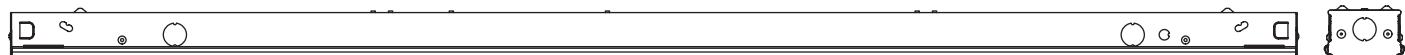
2FT Length: 24 (610)
Weight: 4.92 lbs (2.23 kg)
4FT Length: 48 (1219)
Weight: 7.12 lbs (3.23 kg)
8FT Length: 96 (2439)
Weight: 9.99 lbs (4.53 kg)

Width: 3-1/4 (82)
Depth: 2 (45)



All dimensions are in inches (millimeters).

JC4 : Octagon cover plate



OUTPUT CURRENT

SW1	SW2	Bi-Level		Tri-Level (Default)	
		Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
GR, PH	Philips Xitanium	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<Philips>	Sunrise : SR1200ZTUNV
OS, OS1	Osram Optotronic	<Osram>	ZBHA-CLM DIM (NAMED: 45678), 45561 - LC-SL3W-TVWBX/UNV
		<Encelium EMS>	EN-LCM-1R10V-GB2-BK, EN-LCM-1R10V-GB2-BK/DR, EN-ALC-1R10V-GB2-BK, EN-ALC-1R10V-GB2-BK-DR
		<Leviton>	IP710-DLX
		<Lutron>	DVTV-XX
		<Wattstopper>	ADF-120277, FD-301, FSP-202
		<Synergy>	ISD BC
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<Merten>	5729
		<Pass & Seymour>	CD4FB-W
		<Wattstopper>	DCLV1
		<Sensor Switch>	nIO EZ
		<Synergy>	ISD BC
		<ABB>	SD/S 2.16.1
		Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module	
		<Lutron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLVV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
		<Crestron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO 1,2 Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ_E(wireless) QSGR_E Quantum Hub (120V only): QP2-__2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
PHSR ³	Philips Xitanium Sensor-Ready	<Lutron>	Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND
			Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) Illumra# ZBT-S2AWH Digi-Key# 1082-1034-ND
TDM	KEYSTONE	<Lutron>	Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW
		<Leviton>	6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P

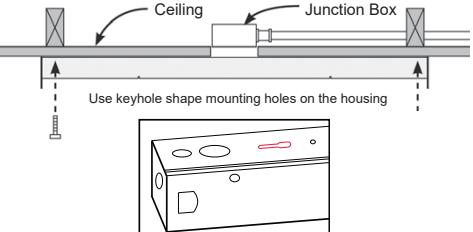
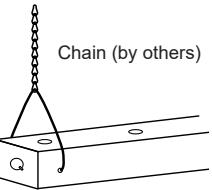
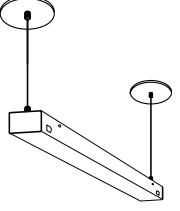
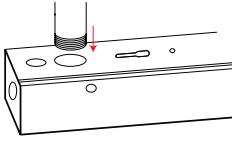
NOTES:

1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.

For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.

2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.

3. Recommended for EasySense System.

Mounting Options	Image	Ordering Code
Surface Mount (Ceiling)	 <p>Use keyhole shape mounting holes on the housing</p>	(Blank)
V-hook for Chain Mount		VH
Adjustable Cable Mount		ACxx xx = Length of Cable (48 or 96 inches)
Stem Mount (w/ Canopy)		w/ Canopy HOLE A : 3/8" IPS STEM [Example : SH-3/8-xx(length)] HOLE B : 1/2" IPS STEM [Example : SH-1/2lxx(length)] xx = 18, 24, 36, 48 (inches)
T-Bar Surface Mount		IDS

* Cable / Stem mount provided with canopy set