

NS LED

Project Name:	
Type:	



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)	lm 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

ORDERING INFORMATION

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

MODEL	LENGTH			LED		COLOR TEMP.		EFFICACY		CRI	
NS	2	2' Length ³	(Blank) Wiring for Individual mount (Std.)	L18	18W LED	-27K -30K -35K -40K -50K	2700K ⁸ 3000K 3500K 4000K 5000K	(Blank) HE	Standard High Efficacy 	(Blank) C9	80+ CRI 90+ CRI ⁹
	4	4' Length		L27	27W LED						
	8	8' Length ¹		L36	36W LED						
		L27		27W LED							
		L36		36W LED							
		L54		54W LED							
		L72	72W LED								
		L27	27W LED								
		L36	36W LED								
		L54	54W LED								
		L72	72W LED								
		L108	108W LED								
		L144	144W LED								
				* Contact factory for custom wattage or lumen requirement.							

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		
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	* Non-standard finish with extra charge.			
		SH-1/2-xx	1/2" IPS STEM w/ Canopy (* xx = 18, 24, 36, 48 inches)	** Additional charge & set up fee.			
		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			DM1	Generic 0-10V 1% dim
*SC	Silver Canopy	X3	Sloped Hard ceiling	AC96	Adjustable Aircraft Cable Canopy 96"L	SD40	40% / 100% Bi-Level Step dim
**CSS	Custom Canopy Color (White is Std.)	X4	9/16" T-bar ceiling			SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)
		X5	9/16" Screw Slot ceiling	ST24	Stem Canopy 24"L	TDM	Triac Dim. (120V only)
				ST48	Stem Canopy 48"L	TD30/70	30% / 70% / 100% Tri-Level Step dim
						TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)
						EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)
						ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim
						LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim
						ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)
						PHSR	Philips Xitanium Sensor-Ready, Dali 5%-100% dim
						PHDL	Philips Xitanium DALI driver, Dim to 5%
						TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface
						ND	Driver prewired for non-dimming applications
						DIMT	Tri-mode dimming (Triac, ELV, 0-10V)
						LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)
						BLT	Bluetooth Mesh System (contact factory for more information)

OPTIONS			
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}	ARRA	Assembled in USA for Buy American Act
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}	BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}	TAA	Trade Agreements Act compliant
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) ^{2,6}	O7W	Optional 7 Years Limited Warranty ⁵
ELCU-200	Fail-to-on Emergency lighting, UL924 ⁷	O10W	Optional 10 Years Limited Warranty ⁵
GTD	Bodine Generator Transfer Device	COC	Separated EM feed for City of Chicago code compliance
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)	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

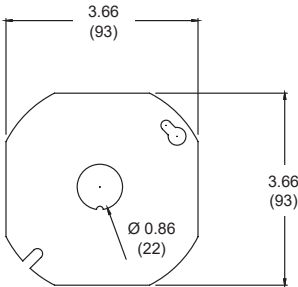
2FT Length: 24 (610)
Weight: 4.92 lbs (2.23 kg)

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

		Bi-Level		Tri-Level (Default)	
SW1	SW2	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
		<Busch-Jaeger>	2112U-101
ES566	eldoLED SOLOdrive	<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
		<Lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron Hi-lume 1% EcoSystem	<Lutron>	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	<Illumra>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> 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:

- 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.
- 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.
- Recommended for EasySense System.

Mounting Options	Image	Ordering Code
Surface Mount (Ceiling)	Ceiling Junction Box Use keyhole shape mounting holes on the housing	(Blank)
V-hook for Chain Mount	Chain (by others)	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