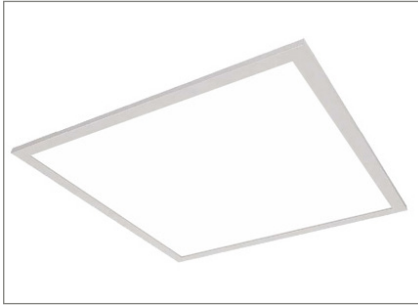


# LSP

Project Name:	
Type:	



### APPLICATION

The design of the panels produces even, consistent shadowless light. The LEDs enable long life, high lumen maintenance, and are low maintenance and constructed without hazardous materials. The LED panel series is designed to lay in drop ceilings in office, schools, and healthcare applications.

### FEATURES:

- The external driver ensures steady performance and long lifetime.
- Aluminum with white powder coated finish.
- Slim profile and low weight design.
- White finished.
- Impact resistant frosted lens.

### LED:

- Color Temperature: 3500/4000 (K).
- LED Module: High efficiency up to 125 LPW.
- CRI: Ra>80.
- Service life: Greater than 100,000 hours minimizing maintenance frequency.
- LM79.
- LM80.

### ELECTRICAL:

- High power factor electronic driver, operate from a 120~277 Vac input range, 50 / 60 Hz.
- Short circuit protection.
- 0-10V Dimming. (1%-100%, 5%-100%.)
- To find an approved dimmer switch, please see table1.
- Power Factor: >0.9
- THD: <20%
- Ambient Operating Temperature: -4°F (-20°C) ~ 122°F (50°C).
- <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 listed.
- UL 1598 suitable for damp locations, Type IC.
- UL 8750 LED equipment in lighting products.
- 5 year warranty.
- Suitable for damp location, Type IC.
- RoHS.
- 100,000+ hours per L70 TM-21 at 158°F (70°C).
- ARRA compliant (Std.).
- Bluetooth Mesh System available, please contact factory for more information.

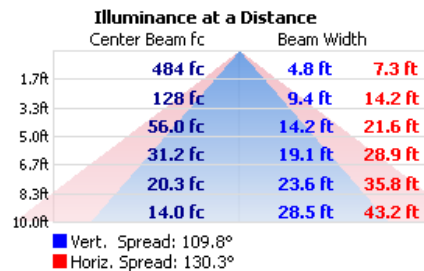
### CONFIGURATIONS

Size	LED Watts	Lumen Output	Lumen Efficiency
2' x 2'	36W	4500 lm	125 lm/W
2' x 4'	46W	5450 lm	

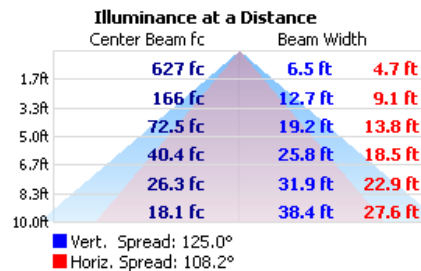
### CUSTOMIZE

Size	Max LED Watts
2' x 2'	36W
2' x 4'	65W

### LSP-22-36LED



### LSP-24-46LED




ORDERING INFORMATION

EXAMPLE: LSP-22-36LED-40K-UNV-DM

MODEL	SIZE		LED		COLOR TEMP.		MOUNTING		VOLTAGE	
LSP	22	2' x 2'	36LED	36W LED	-35K -40K	3500K 4000K	(Blank) FK SMK AC66	Recessed T-bar Flange Kit for Hard Ceiling <sup>1</sup> Surface Mount Kit 66" Aircraft Cable <sup>3</sup>	UNV	120-277V
	24	2' x 4'	46LED	46W LED						

\* Contact factory for custom wattage or lumen requirement.

LED DRIVER		DIFFUSER		OPTIONS	
<b>DM</b>	0-10V 5%~100% (Std.)	(Blank) A12	Satin White (Std.) Pattern#12 prismatic acrylic lens with overlay	<b>EMI15</b>	1875 LUMEN EM Battery Backup
<b>DM1</b>	0-10V 1%~100%			<b>EMI25</b>	3125 LUMEN EM Battery Backup
<b>SD40</b>	40% / 100% Bi-Level Step dim			<b>ELCU-200</b>	Fail-to-on Emergency lighting, UL924 <sup>2</sup>
<b>SDXX</b>	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%)			<b>GTD</b>	Bodine Generator Transfer Device
<b>PHSR</b>	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.			<b>GTD10DIM</b>	Bodine Generator Transfer Device (0-10VDC Dimmer Override)
<b>TDM</b>	Triac Dim. (120V only)			<b>AMB</b>	Anti-Microbial Coating (Matte Skye White)
<b>TD30/70</b>	30% / 70% / 100% Tri-Level Step dim			<b>HC403</b>	Microwave bi-level Occupancy Sensor, adjustable via DIP switch <sup>4,5</sup>
<b>TDXX/YY</b>	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)			<b>HRC-05</b>	Remote control for HC403 sensor
<b>LDE5</b>	5-Series EcoSystem LED driver, 100% ~ 5% dim			<b>SP10</b>	Integrated 10kV/10kA surge protection
<b>LDE1</b>	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim				
<b>ELV</b>	ELV compatible (reverse-phase or trailing-edge), (120V only)				
<b>LTEA2W</b>	Hi-lume 1% 2-wire LED driver (120V forward phase only)				
 <b>BLT</b>	Bluetooth Mesh System (contact factory for more information)				

LIGHTING CONTROL SYSTEM		FRAME	
<b>VRF</b>	<Lutron Vive System Enabled> Vive Integral fixture control (RF only), (Must be ordered with EcoSystem drivers or PHSR)	(Blank) CC	White Custom Color
<b>FCJS0</b>	Vive Attached fixture control (RF only for 0-10V drivers)		
<b>FCJSE</b>	Vive Attached fixture control (RF only for Lutron EcoSystem drivers)		
<b>FCJS0EM</b>	UL 924 Emergency PowPak wireless fixture control for 0-10V drivers		
<b>FCJSEEM</b>	UL 924 Emergency PowPak wireless fixture control for Ecosystem drivers		
<b>RMJS8T</b>	Vive Attached fixture control (RF only for 0-10V drivers), 0-10V control module 8A switched controls up to 60mA.		
<b>RMJS8TEM</b>	UL924 Emergency PowPak wireless fixture control for RMJS8T		
<b>RMJSECO32</b>	Vive Attached fixture control (RF only for EcoSystem drivers), ECO control module		
<b>PPA102S</b>	<Bluetooth> Bluetooth Powerpack (Consult factory for installation location)		

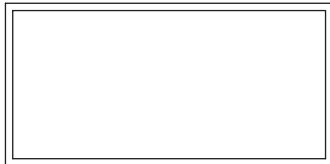
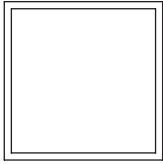
\* Available custom color (RAL)  
Please provide us with the RAL number.  
\* Non-standard finish with extra charge.

NOTES:

- Supplied in separate boxes, field installed.
- Shipped separately.
- The whole cable length from ceiling to fixture is 66".
- See Table 2 to find factory setting.
- Depth increased up to 3".

# LSP

<Standard>



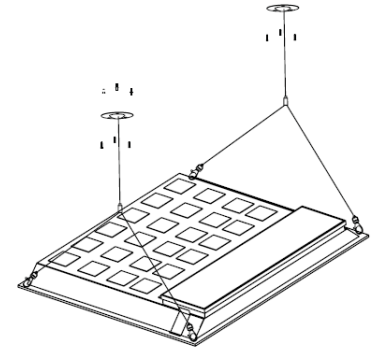
**Specifications: LSP 2'x2'**

Length: 23-3/4 (603)  
 Width: 23-3/4 (603)  
 Depth: 1-5/8 (41)  
 Depth with Junction box: 2-7/8 (74)  
 \* Depth increased up to 3" with HC403 option.  
 \* Depth increased up to 5.2" (132) with EM option.

**Specifications: LSP 2'x4'**

Length: 47-5/8 (1209)  
 Width: 23-3/4 (603)  
 Depth: 1-5/8 (41)  
 Depth with Junction box: 2-7/8 (74)  
 \* Depth increased up to 3" with HC403 option.  
 \* Depth increased up to 5.2" (132) with EM option.

All dimensions are in inches (millimeters).



**Pendant Mounting**

**APPROVED DIMMER SWITCH (Table 1)**

Model#	Brand	Manufacturer	Manufacturer Part #
DM (0-10V 5%~100%)	-	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> for a list of dimmers (Mark VII) that will work with this driver
		<Philips>	Sunrise: SR1200ZTUNV
		<Easeic>	EID110U
DM1 (0-10V 1%~100%)	-	<Lutron>	Nova: NFTV- dimmer plus PP-DV relay pack(s) Nova T: NTSTV-DV-dimmer Diva: DVTV-dimmer, DVSCTV-dimmer, plus PP-DV relay pack(s), DVSTV-dimmer, DVSCSTV-dimmer GRAFIK Eye QS: QSGRJ-XP, plus GRX-TVI 0-10V interface GRAFIK Eye QS with EcoSystem: QSGRJ-XE, QSGR-XE, plus GRX-TVI 0-10V interface PowPak: RMJ-5T
		<Leviton>	Leviton: IP710-LFZ
		<Philips>	Sunrise: SR1200ZTUNV
		<Lutron>	Divi 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
TDM	KEYSTONE	<Lutron>	6641, IllumaTech IP106-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LDE1	Lutron Hi-Lume 1% EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGRJ-_E Quantum Hub (120V only): QP2-_2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
LDE5	Lutron 5-Series EcoSystem		
LTEA2W	Lutron Hi-Lume 2-wire (120V forward voltage only)	<Lutron>	Visit <a href="http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf">http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf</a> for a list of compatible dimmer switches.
PHSR <sup>1</sup>	Philips Xitanium Sensor-Ready	<Illuma>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Illuma# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> Illuma# ZBT-S2AWH Digi-Key# 1082-1034-ND

\* If you want other specific kind, please contact us.

1. Recommended for EasySense System.

**HC403 FACTORY SETTING (TABLE 2)**

Detection Area	100%
Hold-time	5 sec
Daylight sensor	Disable
Stand-by period (tri-level control)	10 sec
Stand-by dimming level	10%

\* See a separate attachment to find more setting options.