

LPAHC SERIES HIGH CEILING PANEL

Client:
Project:
Type:
Quantity:

CONSTRUCTION

Constructed of a heavy gauge steel body. Housing embossed for maximum rigidity. Rounded side flanges for safe handling, T-bar safety clips included on the side of the fixture.

OPTICS

Backlit design provides exceptional lighting distribution. Frosted PMMA lens offers edge to edge illumination without pixilation or bright spots.

12V Audio-Jack sensor socket built-in.

ELECTRICAL

Long-life, high-efficacy, micro-power LEDs, illumination for extended service life.

$L_{70} > 100,000$ hr

Selectable lumen and CCT technology allows easy field-adjustable capability, luminaire ships with maximum output and 4000K CCT setting.

-40°C up to 50°C (-40°F up to 122°F) maximum ambient temperature.

All CCTs are within 5 MacAdam ellipses, 80CRI.

Driver operates at 120-277V input, 0-10V dimmable driver, dim-to-off voltage threshold of optional 12V AUX integrated driver ranges from 0.1V to 0.5V.

Surge protection: L-N: 6kV; L/N-GND: 6kV

Over temperature protection.

MOUNTING

Designed to accommodate lay-in ceilings, Slot T, and T-bar suspension system for 5/8" and 3/8" width. Built-in T-Bar safety clips come standard.

Suspended applications, use Cable Kit accessories.

Plaster, Sheetrock or Drywall application, use Flange Kit accessories.

SENSORS (OPTIONAL)

SENSOR-BLE-6-4T Integral PIR ALS Control bluetooth/on/off/dimming/photosensing.

SENSOR-ANT-6-4T Plug-N-Play PIR on/off/dimming/photosensing.

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

STANDARD FINISH

90% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts are painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

CERTIFICATION

Option for "Assembled in America" upon request.

Suitable for Damp location.

All luminaires are built to UL1598 standards and bear appropriate cULus labels.

For Emergency application, equipment with UL924 certified battery packs.

DLC® Standard (DesignLights Consortium Listed)

WARRANTY

5 year warranty, see Limited Warranty for additional information.



Driver enclosure de-attached from fixture

SHIPPING DATA

Product	Measurement	Weight
LPAHC-2	26"L x 26"W x 6"H	9 lb
LPAHC-4	49"L x 26"W x 6"H	15 lb



LPAHC SERIES HIGH CEILING PANEL

ORDER INFORMATION				EXAMPLE: LPAHC 4 MC BACKLIT	
Fixture	Series	Model	Finish	Input	
	LPAHC		blank	blank	
Mounting					
Accessories Options					
A	SERIES				
	LPAHC	LPA High Ceiling Panel			
B	MODEL				
	Code	Size	Power	CCT	lm/W (avg.)
	2MC-BACKLIT	2x2	100W / 150W / 210W	4000K / 5000K	160lm/W
	4MC-BACKLIT	2x4	180W / 260W / 325W	4000K / 5000K	166lm/W
C	FINISH				
	blank	White			
D	INPUT				
	blank	Dim-to-off Driver 120-277V, 0-10V Dimming 12V AUX Output			
E	MOUNTING				
	blank	Standard lay-in			
	MOUNT-LP-PMK	Aircraft Cable Pendant Mount			
	MOUNT-LP-22-FGK	2x2 Flange Kit (Plaster, Sheetrock or Drywall)			
	MOUNT-LP-24-FGK	2x4 Flange Kit (Plaster, Sheetrock or Drywall)			
F	ACCESSORIES/OPTIONS				
	AIA	Assembled in America, compliant with BAA (COTS)			
	-C	6-Foot Flex Whip			
	EMB-H40170*	Self-Diagnostic Emergency Battery 40W 100-347VAC Input 170VDC Output			
	SENSOR-ANT-6-4T / 4T-H*	Plug-N-Play On/Off/Dimming Motion Sensor up to 4T: 40FT / 4T-H: 50FT (REMOTE-RC100)			
	SENSOR-BLE-6-4T / 4T-H*	Plug-N-Play Bluetooth On/Off/Dimming Motion Sensor up to 4T: 40FT / 4T-H: 50FT (ALS Control Mobile App)			
	REMOTE-RC100	Handheld Remote Commissioning Tool for SENSOR-ANT (1 per job)			
	CONTROL-LVFA*	AVI-ON Bluetooth Mesh Control System (12V DC Power by Driver)			
	GTD-ESRLUD**	Emergency Battery Generator Transfer Device 120-277 VAC Input Emergency Battery Generator			

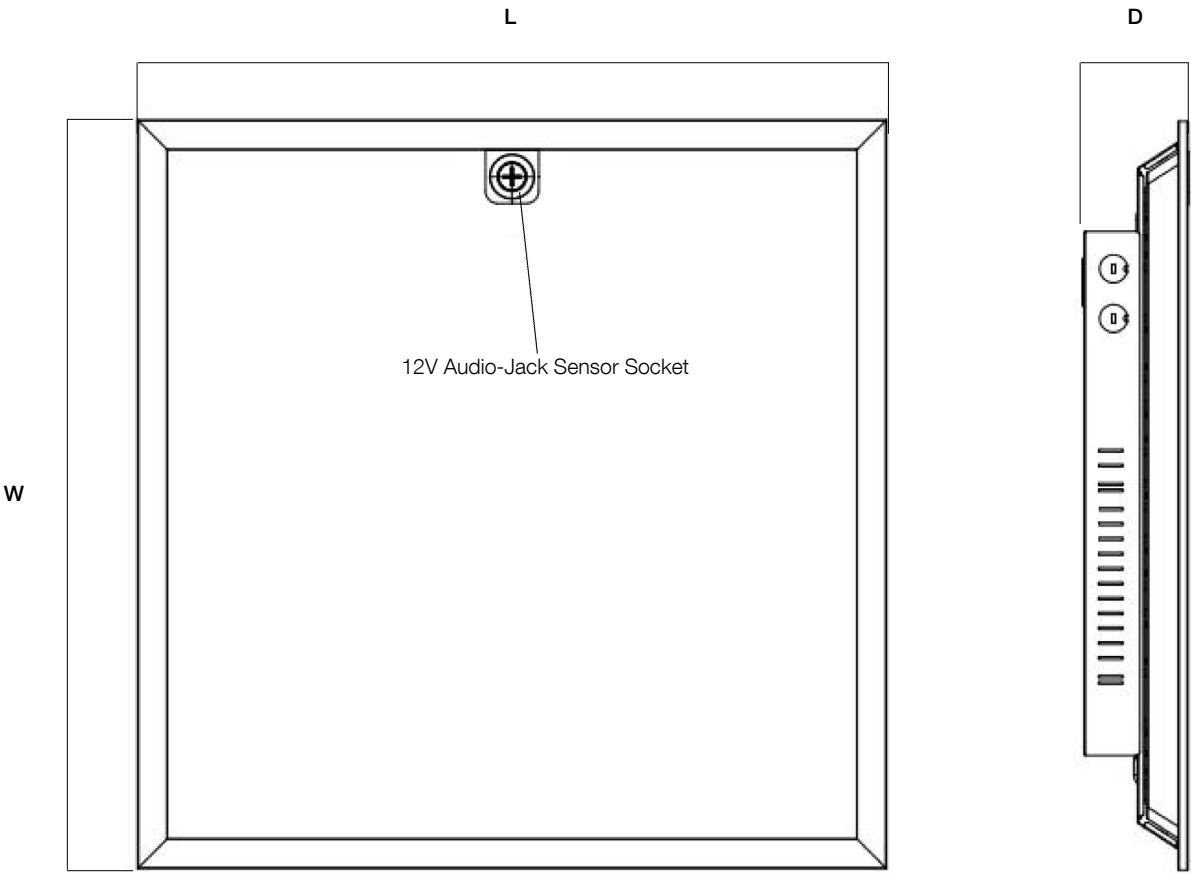
*see page 5 for sensor and emb spec

**see page 8-9 for GTD spec

LPAHC SERIES HIGH CEILING PANEL

DIMENSIONS

Model	L	W	D
LPAHC-2	23.70" (603mm)	23.70" (603mm)	3.40" (86mm)
LPAHC-4	47.80" (1213mm)	23.70" (603mm)	3.40" (86mm)



LPAHC SERIES HIGH CEILING PANEL

PERFORMANCE DATA - LPA

SYSTEM WATTS	SIZE	VOLTAGE	ACTUAL CONSUMPTION	LUMEN	LPW
100	LPAHC-2MC-BACKLIT	120-277V	99W	15840	160
150	LPAHC-2MC-BACKLIT	120-277V	148W	23680	160
210	LPAHC-2MC-BACKLIT	120-277V	208W	33282	160
180	LPAHC-4MC-BACKLIT	120-277V	175W	29050	166
260	LPAHC-4MC-BACKLIT	120-277V	253W	41998	166
325	LPAHC-4MC-BACKLIT	120-277V	316W	52604	166

DLC CODE

Part Number	DLC Product ID	DLC Class
LPAHC-2MC-BACKLIT (2x2)	pending	Premium
LPAHC-4MC-BACKLIT (2x4)	pending	Premium

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SENSOR SPEC

Model	Type	Mounting	Coverage	Input	Function	Programmable
SENSOR-ANT-6-4T SENSOR-ANT-6-4T-H	PIR	up to 40FT up to 50FT	30FT radius	12V DC	On/Off/Dimming	REMOTE-RC100
SENSOR-BLE-6-4T SENSOR-BLE-6-4T-H (see page 6 for detail)	PIR	up to 40FT up to 50FT	30FT radius	12V DC	Bluetooth Mesh On/Off/Dimming Daylight Harvesting	ALS Control Bluetooth Mobile App
CONTROL-LVFA (see page 6 for detail)	-	-	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App



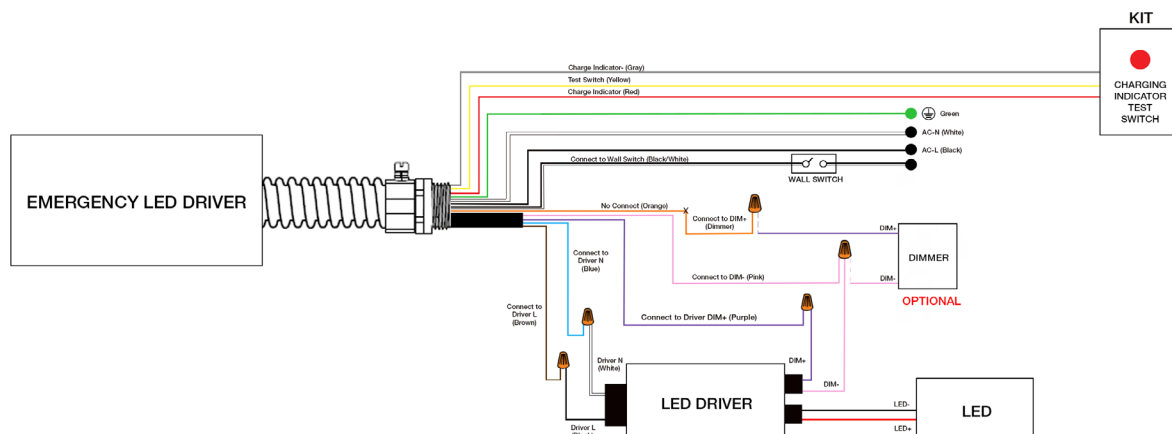
SENSOR-ANT-6-4T / 4T-H
SENSOR-BLE-6-4T / 4T-H



CONTROL-LVFA

EMB SPEC

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-H40170	90mins	100-347VAC	170VDC	40W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install



LPAHC SERIES HIGH CEILING PANEL

SENSOR-BLE-6-4T SENSOR SPEC

FEATURE

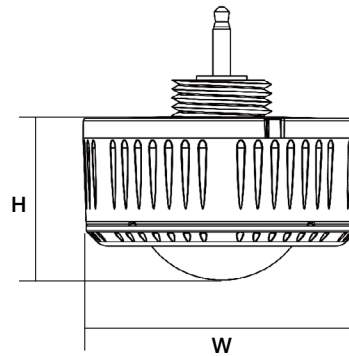
- **Installation:** Plug-N-Play via AUX socket on attached fixture
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, Code-compliant manual-on or auto-off capability
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight Harvesting
- **Room and Zone Control:** Zoning and Grouping control, Scheduling



SPECIFICATIONS

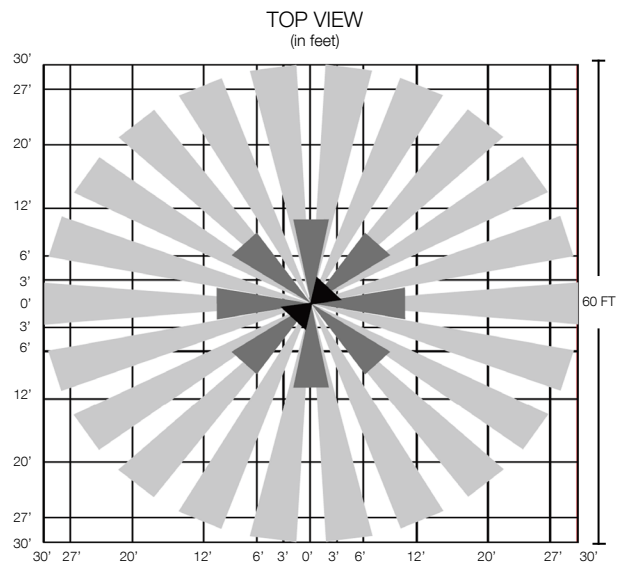
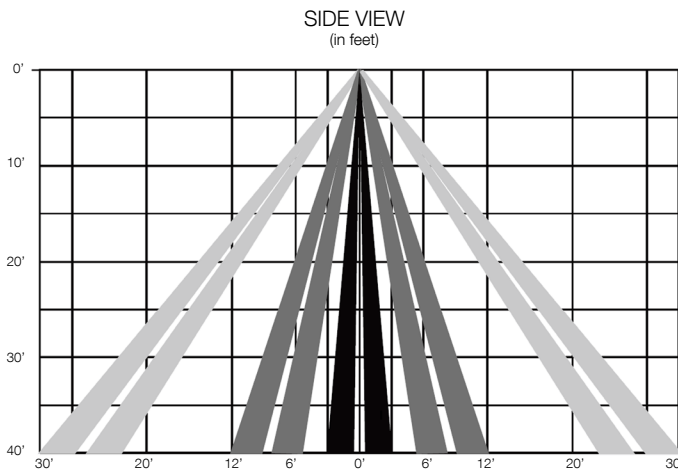
SENSOR TYPE:	Passive Infrared Sensor (PIR)
WIRELESS STANDARDS:	5.0 Bluetooth Mesh
INPUT VOLTAGE:	12-24VDC, >50mA
CONTROL OUTPUT:	0-10V
OPERATING TEMP:	-4°F ~ +140°F (-20°C ~ +60°C)
COMMISSIONING RANGE:	50FT
BLUETOOTH RANGE:	164FT
DETECTION ANGLE:	360°
MOUNTING HEIGHT:	40FT / 50FT for “-H” moel
WARRANTY:	5 years
IP RATING:	IP65

DIMENSIONS



H	W
1.03" (26.2mm)	2.17" (55mm)

COVERAGE PATTERNS (40FT)



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CONTROL-AVI-LVFA SPEC

Status LEDs & Config Button

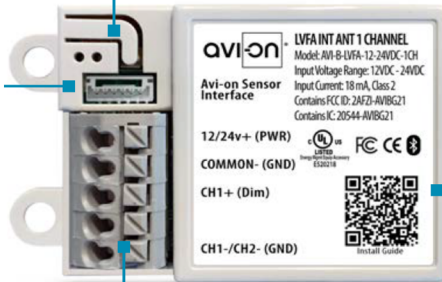
Quick and easy validation of wiring and network

Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

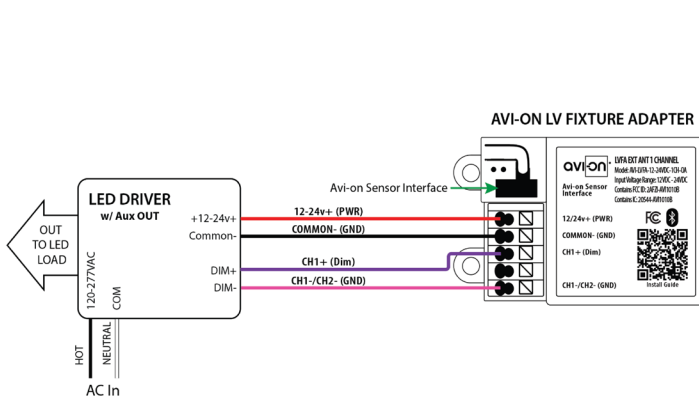
SPECIFICATIONS

INPUT VOLTAGE: 12-24VDC
CURRENT: 15mA without a Sensor
 19mA with a DC PIR Sensor
 48mA with a DC Microwave Sensor
0-10V DIMMING: 12-24VDC
SIZE: 2.30in x 1.43in x 0.75in
 (58.2mm x 36.4mm x 19mm)
MOUNTING: Removable mounting tabs
WEIGHT: 0.45 oz (16g)
OPERATING TEMP: -22°F to +158°F (-30°C to + 70°C)

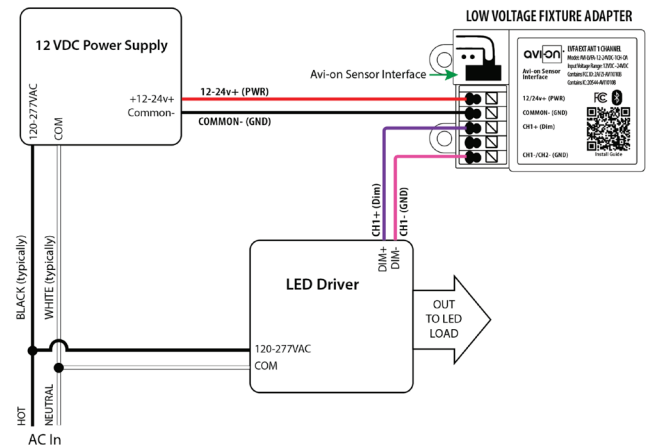
RADIO FREQUENCY: 2.4GHz
WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE*: 80ft with obstructions
 350ft unobstructed
SECURITY: AES 128-bit encryption for device to device communication
 AES 256-bit encryption for device to cloud communication
WARRANTY: 5 years; 10 years optional
REGULATORY: FCC: 2AFZI-AVI1010 B
 IC: 20544-AVI1010 B
 BQB: D031801, DID: 86303
 UL 916, 2043 (Plenum Rated)

*When communicating through the mesh, range is essentially unlimited (5000ft+)

WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

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GTD SPEC

CONSTRUCTION

Yellow metal casing. Integrates with dry contact systems to provide lighting during power outages. Features a slim enclosure, allowing for seamlessly integrating into existing building infrastructure.

Designed for commercial and industrial applications that require an emergency load to be switched on during a loss of normal power.



SPECIFICATIONS

COIL CURRENT:	Normal Power = 6mA MAX
COIL VOLTAGE INPUT:	120-277V AC (50/60 Hz)
EXPECTED RELAY LIFE:	10 Million Cycles Min Mechanical
RELAY CONTACT RATINGS:	10 Amp Resistive @ 30 V DC 10 Amp General Use @ 277 V AC
OPERATING TEMP:	-30°F ~ +140°F (-34°C ~ +60°C)
OPERATE TIME:	18ms
HUMIDITY RANGE:	5-95% (Noncondensing)
LED:	Green = Normal Power Red = Relay Status
DIMENSIONS:	1.40"H x 5.63"W x 1.00"D
WIRES:	16", 600V Rated
OVERRIDE (TEST SWITCH):	No
APPROVALS:	UL924, C-UL, CE, ROHS
NOTES:	Device Draws no Current From Emergency Source

TESTING

INITIAL TEST FOR CORRECT WIRING:	Apply Normal Power To Normal Power Input a. Green LED (Normal Power) should be ON b. Red LED (Relay Status) should be ON c. Load should be OFF d. Relay Contact (N/O) should be CLOSED
LOCAL TEST BUTTON:	1. Turn Switched Circuit OFF. Load be OFF. 2. Press and Hold "Local Test Button" 3. Load should Turn ON 4. Release "Local Test Button" and Emergency Light should Turn OFF.
WALL SWITCH:	1. Turn ON Wall Switch If not already ON 2. Load should Turn ON 3. Turn Wall Switch OFF 4. Load will Turn OFF

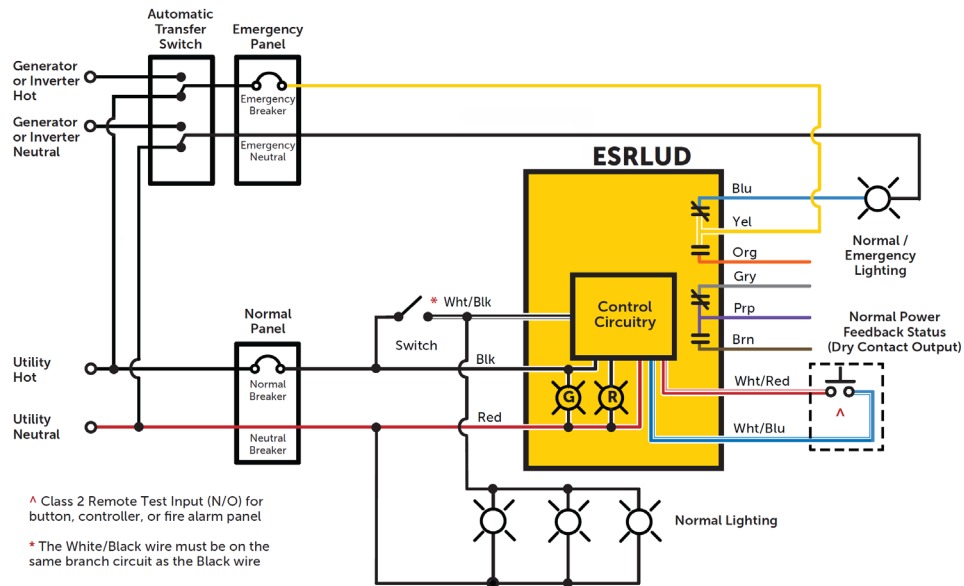
TROUBLESHOOTING

CONDITION	ACTION
Green LED is OFF	<ul style="list-style-type: none"> Check Normal Power Input Wiring (Black and Red Wires) and Voltage.
Red LED is OFF but Load is OFF	<ul style="list-style-type: none"> Check Bulbs and Ballast. Check Load Wiring (Blue Wire and Load's Neutral). Replace Unit. (Assuming N/C Contact is Used).
Load is ON but Red LED is ON	<ul style="list-style-type: none"> Replace Unit. (Assuming N/C Contact is Used).
Red LED does not Turn OFF and Load does not Turn ON when being tested	<ul style="list-style-type: none"> Check Bulbs and Ballast. Check Wiring Connections if Using a Remote Test Option. Press Local Test Button on the Unit. Replace Unit.
Red LED will not Turn ON and Load will not Turn OFF	<ul style="list-style-type: none"> Verify Status of Normal Power Input. Open Wall Switch Input. Verify That No Test Inputs are Stuck Closed.

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GTD WIRING DIAGRAM

USING EMERGENCY LIGHTING AS NORMAL LIGHTING



OVERRIDING A 0-10V DIMMER

