

ELT-PAO

Project Name:

Type:



CASAMBI

APPLICATION

The ELT-PAO is a recessed, low profile volumetric troffer luminaire with dynamic 3D pattern acrylic overlay to help create and decorate the space. Suitable for commercial and institutional spaces including open offices, classrooms, retail, and healthcare facilities.

FEATURES:

- Die-formed, cold-rolled, heavy gauge steel housing construction provides durability and strength.
- Standard steel door frame allows easy lens replacement without tool.
- Smooth edge for easy handling.
- Door steel latches provide easy, secure closure.
- Painted parts finished with high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.
- Paint after fabrication.
- 3/16" thick transparent acrylic overlay with dynamic 3D patterns, provided with glare-reducing overlay for comfortable illumination.

MOUNTING:

- Recessed ceiling mount.
- Compatible with most ceiling types.
- Field installed flange kit is optional.

LED:

- High quality array LEDs.
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color rendering Index: >80 (standard), >90 optional.
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- Generic : 0-10V 10% dim. (GR)
- Minimum starting 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/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- Recessed Luminaires, Type IC
- Suitable for damp locations.
- CEC Compliant EM (please contact for more information)
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) ⁴
- ARRA compliant (optional).

CONFIGURATIONS

| Series | Size | LED | AC Input | Lumen Output | Lumen Efficiency |
|---------|---------|-------|----------|--------------|------------------|
| ELT-PAO | 2' x 2' | 27LED | 29.76W | 3172.4 lm | 106.59 lm/W |
| | | 36LED | 39.22W | 4180.85 lm | |
| | | 44LED | 46.84W | 4993.14 lm | |
| | | 54LED | 57.49W | 6128.43 lm | |
| | | 72LED | 78.44W | 8361.7 lm | |
| | 2' x 4' | 36LED | 39.58W | 4850.41 lm | 122.55 lm/W |
| | | 44LED | 47.08W | 5798.86 lm | 123.17 lm/W |
| | | 54LED | 57.79W | 7143.53 lm | 123.46 lm/W |
| | | 72LED | 75.50W | 9238.2 lm | 122.36 lm/W |

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% |

CEILING OPENING

| Series | Size | Width | Length |
|--------|---------|-----------|---------|
| FK | 1' x 2' | 12-3/8" | 24-3/8" |
| | 1' x 4' | 12-3/8" | 48-3/8" |
| | 2' x 2' | 24-3/8" | 24-3/8" |
| | 2' x 4' | 24-3/8" | 48-3/8" |
| FTSH | 1' x 4' | 12-3/16" | 48-3/4" |
| | 2' x 2' | 23-15/16" | 24-7/8" |
| | 2' x 4' | 24-5/8" | 48-3/4" |

ELT-PAO

ORDERING INFORMATION

EXAMPLE: ELT22-36LED-40K-PAO-D-UNV-GR

| MODEL | | LED | | COLOR TEMP. | | CRI | | DOOR FRAME | | TRIM TYPE | |
|-------|---------|--|---------|-------------|--------------------|---------|----------------------|------------|---------------------------------------|-----------|----------------------------|
| ELT22 | 2' x 2' | 27LED | 27W LED | -27K | 2700K ⁶ | (Blank) | 80+ CRI | (Blank) | Flush Steel, White | (Blank) | Grid |
| ELT24 | 2' x 4' | 36LED | 36W LED | -30K | 3000K | C9 | 90+ CRI ⁷ | SB | Flush Steel, Black | FK | Flange ¹¹ |
| | | 44LED | 44W LED | -35K | 3500K | | | FB | Flush Aluminum, Black | FTSH | Flanged Trim ¹² |
| | | 54LED | 54W LED | -40K | 4000K (Std.) | | | FN | Flush Aluminum, Natural | | |
| | | 72LED | 72W LED | -50K | 5000K | | | FW | Flush Aluminum, White | | |
| | | * Contact factory for custom wattage or lumen requirement. | | | | | | RB | Regressed Aluminum, Black | | |
| | | | | | | | | RN | Regressed Aluminum, Natural Regressed | | |
| | | | | | | | | RW | Aluminum, White | | |

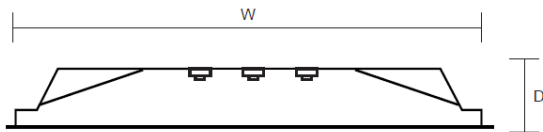
| PATTERN | | VOLTAGE | | LED DRIVER ⁵ | |
|---------|--|---------|-------------------|-------------------------|---|
| PAO-A | Patterned Acrylic Overlay with A pattern | UNV | 120-277V | GR | Generic, 0-10V 10% dim (Std.) |
| PAO-B | Patterned Acrylic Overlay with B pattern | 120 | 120V | DM1 | Generic 0-10V 1% dim |
| PAO-C | Patterned Acrylic Overlay with C pattern | 277 | 277V | SD40 | 40% / 100% Bi-Level Step dim |
| PAO-D | Patterned Acrylic Overlay with D pattern | 347 | 347V | SDXX | XX% / 100% Bi-Level Step dim (Specify XX : 10%~70%) |
| PAO-E | Patterned Acrylic Overlay with E pattern | 480 | 480V ¹ | TDM | Triac Dim. (120V only) |
| PAO-F | Patterned Acrylic Overlay with F pattern | | | TD30/70 | 30% / 70% / 100% Tri-Level Step dim |
| PAO-G | Patterned Acrylic Overlay with G pattern | | | TDXX/YY | XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) |
| PAO-H | Patterned Acrylic Overlay with H pattern | | | ES566 | eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim |
| PAO-I | Patterned Acrylic Overlay with I pattern | | | LDE1 | Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim |
| PAO-J | Patterned Acrylic Overlay with J pattern | | | ELV | ELV compatible (reverse-phase or trailing-edge), (120V only) |
| PAO-K | Patterned Acrylic Overlay with K pattern | | | PHSR | Philips Xitanium Sensor-Ready, Dali 5%~100% dim |
| PAO-L | Patterned Acrylic Overlay with L pattern | | | PHDL | Philips Xitanium DALI driver, Dim to 5% |

| OPTIONS | | LIGHTING CONTROL SYSTEM | |
|----------|--|-------------------------|---|
| EMG5 | 5W EM Battery Backup (CEC Compliant EM) ^{2,3} | VRF | <Lutron Vive System Enabled> |
| EMG8 | 8W EM Battery Backup (CEC Compliant EM) ^{2,3} | FCJS0 | Vive Integral fixture control (RF only), (Must be ordered with EcoSystem drivers or PHSR) |
| EMG16 | 16W EM Battery Backup (CEC Compliant EM) ^{2,3} | FCJSE | Vive Attached fixture control (RF only for 0-10V drivers), (N/A with GR driver) |
| EMG25 | 25W EM Battery Backup (CEC Compliant EM) ^{2,3} | FCJS0EM | Vive Attached fixture control (RF only for Lutron EcoSystem drivers) |
| ELCU-200 | Fail-to-on Emergency lighting, UL924 ⁸ | FCJSEEM | UL 924 Emergency PowPak wireless fixture control for 0-10V drivers |
| GTD | Bodine Generator Transfer Device | | UL 924 Emergency PowPak wireless fixture control for Ecosystem drivers |
| GTD10DIM | Bodine Generator Transfer Device (0-10VDC Dimmer Override) | | <EasySense> |
| ARRA | Assembled in USA for Buy American Act | SNS200C | EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) ^{9,10} |
| AB | Two Ballast for AB Switch | RS-IR | IR dongle v2.0 for EasySense control |
| MS11 | Master Slave w/ 11' Whip | | <Bluetooth> |
| PW6 | Pre-wired 6' Whip Flex | PPA102S | Bluetooth Powerpack (Consult factory for installation location) |
| HC403 | Microwave bi-level Occupancy Sensor, adjustable via DIP switch | | |
| O7W | Optional 7 Years Limited Warranty ⁴ | | |
| O10W | Optional 10 Years Limited Warranty ⁴ | | |
| AMB | Anti-Microbial Coating (Matte Sky White) | CASAMBI | Contact factory for CASAMBI READY options |

NOTES:

- Supplied with step down transformer.
- Contact factory for other emergency ballast options.
- Must specify voltage, not available with 347V, 480V.
- 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)
- To find an approved dimmer switch, please see table 1.
- Available with C9 only.
- Lumen per watt is around 15% less than standard CRI (80+).
- Shipped separately.
- See NFC and IR manual in the separate attachment. If your phone is not compatible, please order "RS-IR" and follow the manual.
- Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
- Flange kits are supplied in separate boxes, field installed.
- Flanged trims are supplied with swing gate hanger.

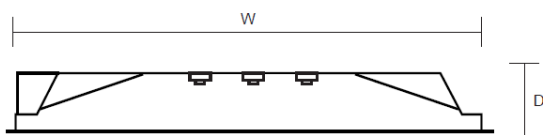
ELT-PAO



Specifications: 2'x2'

Length: 23-3/4 (603)
Width: 23-15/16 (608)
Depth: 3-1/2 (88.9)
Weight: 13.07 lbs (5.93 kg)

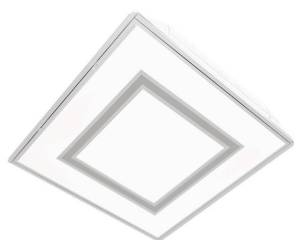
All dimensions are in inches (millimeters).



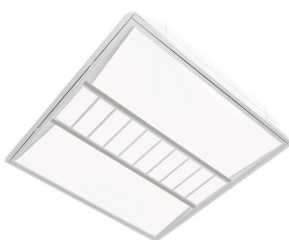
Specifications: 2'x4'

Length: 47-3/4 (1213)
Width: 23-15/16 (608)
Depth: 3-1/2 (88.9)
Weight: 21.01 lbs (9.53 kg)

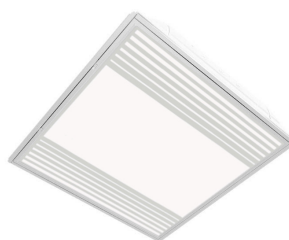
PATTERNS



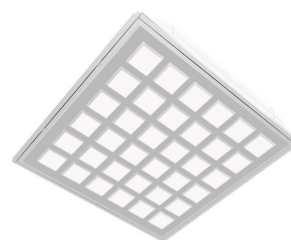
A



B



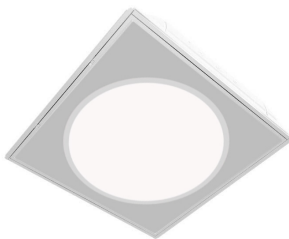
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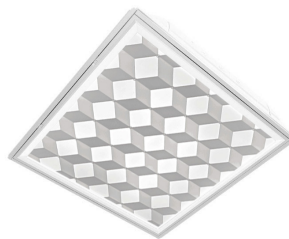
D



E



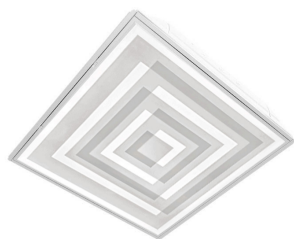
F



G



H



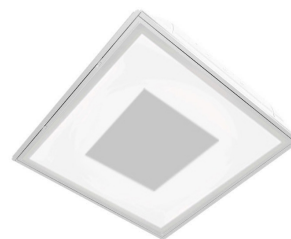
I



J



K



L

ELT-PAO

COMPATIBLE DIMMER SWITCH (TABLE 1)

| Model # | Brand | Compatible Dimmer Switch | |
|-------------------|-------------------------------|--------------------------|--|
| (Blank) | - | <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 |
| 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 |
| | | <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-A08, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX |
| LDE1 | Lutron 5-Series 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.