

Installation Closeout Package



ILS-2600-01R
White (L-865(L)) LED
Lighting Systems

ILS-3600-01R
Dual (L-865(L)/L-864(L))
LED Lighting Systems



Toll Free: +1 (866) 624-8309 • www.itl-llc.com



Front Matter

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!!!! MUST READ AND FOLLOW FOR WARRANTY !!!!

Instructions

1. Verify the lighting system has been installed to manufacturer's specifications utilizing the checklist that follows. All items must be verified and checked off.
2. Take all pictures required by the list below with date/time markings included.
3. Fill out the form below and sign verifying that you have completed these closeout procedures.
4. Return this document to International Tower Lighting including all required pictures via email at inocc@itl-llc.com
5. Submit invoices to payables@itl-llc.com

Full Name _____

Email Address _____

Company _____

Tower Owner _____

Site ID / BU Number / ASR _____

Signature

Closeout Checklist

Cable Stripping / Termination

- ☐ Individual conductor's insulation not nicked cut or damaged on all cable terminations. (Check each wire where the outer cable jacket has been removed.)
- ☐ Conductors stripped without removing wire strands on all stripped wires. (Use correct stripping tool for wire gauge)

Flash Head / Flash Head Cable Install

- ☐ Lightning rod installed no less than 18" away from and 36" above flash head
- ☐ Flash head mounted using supplied bolts and associated hardware
- ☐ Top flash head has unobstructed 360° view. (No obstruction larger than 7/8")
- ☐ Mid-level flash heads (when present) provide unobstructed 360° view of at least one flash head
- ☐ Cable glands securely tightened around cables to prevent water intrusion
- ☐ Drip loop created on cable exiting each flash head
- ☐ Cables secured to tower no more than 12" away from flash head with no stress on cable gland
- ☐ All flash heads leveled both the North-South and East-West directions with user supplied level
- ☐ Cables secured to the tower utilizing 2-3-4 method no more than every 5'
- ☐ Cables secured 6" directly above and below and cross angles or tower leg flanges leaving 1" of space between cable and flange/angle
- ☐ Cable mounted behind and not extending past any climbing pegs
- ☐ Stainless steel cable support grips installed below service loop and secured to tower
- ☐ 24-48" service loop installed vertically to the tower below the flash head

- ☐ All cable terminations match the provided color code
- ☐ Cable drain wires (bare shield wire) secured to ground lug with length as short as possible.
- ☐ 24-48" service loop installed at base of tower near flash head surge suppressor
- ☐ 24-48" service loop installed at base of tower near power supply
- ☐ Drip loops created before entering lighting controller.

Side Light / Side Light Cable Install

- ☐ Side Lights secured to tower using supplied mounts no more than 2' from tower
- ☐ Side Lights provide unobstructed 360° view of at least one side light
- ☐ Side Lights MUST HAVE both ground wires secured to screw in base
- ☐ All cable glands secured around cable to prevent water intrusion
- ☐ Stainless steel cable support installed below service loop and secured to tower
- ☐ Cable secured to the tower utilizing 2-3-4 method no more than every 5'
- ☐ Junction box mounted to tower securely in correct orientation (UP arrow inside junction box points upwards) and service loop mounted below junction box vertically
- ☐ Cable secured 6" directly above and below and cross angles or tower leg flanges leaving 1" of space between cable and flange/angle

Flash Head Surge Suppressor

- ☐ Mounted close to the tower ground buss bar
- ☐ Supplied ground wire should be grounded to tower ground buss bar without extending
- ☐ Cable glands secured to prevent water intrusion

- ☐ Enclosure cover secured with provided gasket and six mounting screws
- ☐ Cable from Flash head terminated to right terminal block following provided color code.
- ☐ Cable to lighting controller terminated to left terminal block following provided color code
- ☐ Both cable Drain wires (bare shield wires) mounted to grounding lugs with length as short as possible

Photo Electric Cell (PEC)

- ☐ PEC mounted vertically with supplied materials
- ☐ PEC facing north with no obstructions or light sources to affect proper operation

Power Supply Install

- ☐ Enclosure must be mounted upright using supplied hardware
- ☐ Enclosure must be electrically bonded to the site grounding system using at least AWG 6 copper conductor per instruction manual. Use either a two-hole lug mounted to the bottom of the enclosure (holes provided) or the internal grounding lug provided on the panel.
- ☐ No holes created in enclosure other than on the bottom. **Any hole created in the top, sides, front or back of the enclosure voids the warranty.**
- ☐ All unused holes sealed to prevent intrusion of debris/animals/insects
- ☐ Door must open 180 degrees freely without obstruction
- ☐ Flash head cable wires connected to TB1 positions 1-10 following color code on TB1

- ☐ Side Light cable installed on TB1 positions 11 & 12 with ground connected to ground lug
- ☐ Photo Electric Cell (PEC) cable installed on TB1 positions 13-15
- ☐ Input power cable installed on TB1 positions 16 & 17 with ground connected to ground lug

Testing

- ☐ System operates in day mode for 10 consecutive minutes without any alarm LEDs on PCB3
- ☐ With PEC covered system switches to night mode within one minute
- ☐ With PEC covered and system in night mode verify operation with no alarm LEDs on PCB3 for at least 10 consecutive minutes

Closeout Pictures

Flash Head (Must have each picture for every flash head installed)

- ☐ Mounted from side showing cable gland
- ☐ Mounted showing level both North-South and East-West directions
- ☐ Terminal block and ground connections
- ☐ Mounted with view of lightening rod
- ☐ Service loop install
- ☐ Stainless steel cable support grip install

Side Lights (Must have each picture for every Side Light installed)

- ☐ Top removed showing both ground wires secured to screw in base
- ☐ Mounted with cable attached
- ☐ Junction box open showing wiring connections
- ☐ Junction box closed showing mounting
- ☐ Stainless steel cable support grip install

Power Supply (Must have each picture for every power supply installed)

- ☐ Closed showing mounting
- ☐ Enclosure grounding
- ☐ Open whole system
- ☐ MON-2682 with power applied (master power supply only)
- ☐ MON-2682 Serial Number (master power supply only)
- ☐ Modem label showing IP address(es) and Modem Serial Number (master power supply only)
- ☐ TB1 connections with ground screws

Lightning Protection Kit (Must have each picture for every kit installed)

- ☐ Mounting and grounding
- ☐ Cable with terminal block connections and shield(s) grounded

Photo Electric Cell (PEC)

- ☐ Mounting and location

General

- ☐ View of tower from ground to top showing flash head positions.
- ☐ ALL ITL equipment serial number labels (each flash head, side light, power supply, monitoring system)
- ☐ Electric meters at site showing utility company name (if possible)
- ☐ FCC signage/posted ASR/posted site ID (if present at site)