

Prior to startup, please complete the following REQUIRED ITEMS:

JOB \_\_\_\_\_ NAME: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 REQUESTED STARTUP DATE: \_\_\_\_\_

Every Network CAT-5A cable has been tested with a LAN cable tester & passed

- Please confirm that every CAT-5 Cable has been tested with a LAN cable tester and passed.
- The preferred CAT-5 cable pin out for the nLight network is T568B.
- **A TESTED AND CONFIRMED CAT5 CABLE PLANT IS ABSOLUTELY CRITICAL TO A SUCCESSFUL nLIGHT SYSTEM.**

All devices in use have active LED's

- Confirm that all powered devices in use have an active LED. (Please note capacitive touch wall controls and devices that do not have RJ-45 ports, do not have LED's).
- If a device's LED exhibits a "rapid flash - double blink" behavior, this indicates a communication error in the zone. To troubleshoot, locate the middle of the CAT-5 chain for the zone and disconnect the RJ45 on that device. If the error blink code persists, repeat the process on the half of the chain where the device in question resides. Repeat the process until the device or cable segment causing the error is isolated. Repair or replace as necessary until all error blink codes are eliminated.

On/Off Control has been verified

- If applicable, verify all On/Off control throughout installation. Field programming is not required for basic On/Off controls to function. This includes manual On/Off functions via wall control, and On/Off controls via sensor control.
- If applicable, all nLight enabled fixtures in each zone will operate together (in tandem) initially, if zones are required by the specifier's design to have switching groups or occupancy tracking groups defined, this will be accomplished through programming.

Dimming Control has been verified

- If applicable, verify manual dimming functionality throughout installation. Field programming is not required for basic ON/OFF and manual dimming controls to function.
- If applicable, all nLight enabled fixtures in each zone will operate together (in tandem) initially, if zones are required by the specifier's design to have dimming groups or daylight tracking groups defined, this will be accomplished through programming.



### Startup request form

- Must be completed and returned to [controls@jrclight.com](mailto:controls@jrclight.com) prior to a startup being scheduled. Please see below for details.

### PLACE ID STICKER FOR DEVICES ON WORKSHEETS

- Place the removable Device ID sticker for ALL of the zones devices in the space provided.

## Control System Installation Worksheet

#### Common nLight Terminology

- **nLight Control Zone:** A group of devices in a room or area that are daisy-chained wired together with CAT-5 cabling. Devices can be wired in any order. Devices within a zone are powered from either an nPP16 power pack or from the Bridge to which it is connected.
- **WallPod:** A term for any nLight toggle or dimmer switch. All WallPods have model numbers that start with “nPOD”.
- **Power Packs:** A general term for the nPP16 device that contains both a 16A line switching relay and supplies power to other devices over the CAT-5 cable. Similar devices include: slave relay packs (nSP\*), auxiliary relay packs (nAR40), and power supplies (nPS 80).

**CAT-5 Wiring Requirements:** RJ-45 Male Terminations (T568B)  
1500 ft max cable length per zone

**Notice:** It is imperative that all CAT-5 cables be tested with a LAN Cable Tester to verify proper RJ-45 terminations.

**Control Verification Methods:** Listed below are methods of testing a zone for proper electrical control of the lights. Check all wiring connections if test fails.

**Method 1 (requires WallPod):** Toggle lights On/Off or dim lights Up/Down by pressing WallPod.

**Method 2 (requires Occupancy Sensor):** Vacate zone and wait for occupancy sensor to time-out. Default time delay is 10 minutes. Note sound will reset time delay on dual technology (PDT) sensors.

**Method 3 (requires Photocell):** Shine flashlight into Photocell. LED will blink rapidly and lights will begin to dim. After 20 min of blinking, lights will turn off.

- **Notice:** Product LEDs provide status information. Refer to individual device instruction cards (included in boxes) for more information. <http://www.acuitybrands.com/products/controls/nlight#b57e80d6-3a23-4763-b833-ac8f8a219db3>

#### Special Requests & additional programming information / Sequence of operation for all spaces (If Applicable):

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## System Installation Worksheet (cont)

Project name \_\_\_\_\_ Date \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Zone name:	# of devices _
<i>PLACE ID STICKER</i>	
<i>FOR DEVICES IN ZONE</i>	
<i>HERE</i>	

Zone name:	# of devices _
<i>PLACE ID STICKER</i>	
<i>FOR DEVICES IN ZONE</i>	
<i>HERE</i>	

Zone name:	# of devices _
<i>PLACE ID STICKER</i>	
<i>FOR DEVICES IN ZONE</i>	
<i>HERE</i>	

Zone name:	# of devices _
<i>PLACE ID STICKER</i>	
<i>FOR DEVICES IN ZONE</i>	
<i>HERE</i>	

Zone name:	# of devices _
<i>PLACE ID STICKER</i>	
<i>FOR DEVICES IN ZONE</i>	
<i>HERE</i>	

Zone name:	# of devices _
<i>PLACE ID STICKER</i>	
<i>FOR DEVICES IN ZONE</i>	
<i>HERE</i>	

DUPLICATE THIS PAGE AS PROJECT REQUIRES

### **nLight Startup Request Form Details**

- Must be completed and returned to [controls@jrclight.com](mailto:controls@jrclight.com) prior to a startup being scheduled. Please see below for details.
- Fill out project information fields located at the top of Page.

#### **Special Requirements**

- Complete section and provide additional information for special requirements not listed.

#### **Additional programming information/ Sequence of operations for all spaces.**

- Provide programming information (i.e. room operation instructions, programming requests...)

For additional support please call 1.801.972.3970 and ask to speak with one of our nLight specialists.

[www.jrclight.com/controls](http://www.jrclight.com/controls)

### JRC nLIGHT STARTUP Terms & Conditions

**STARTUP consists of:**

- One on-site visit of a predetermined maximum number of consecutive days by a certified JRC technician during normal business hours.
- Visit must be scheduled two weeks in advance (nLight Installation Worksheets required prior to scheduling startup visit).
- Completed nLight Installation Worksheet required prior to scheduling startup visit. Worksheet must be completed by electrical contractor.
- Accuracy of worksheet will be verified by startup technician, who will not be held responsible for time spent troubleshooting installation errors by electrical contractor. JRC reserves the right to back charge the contractor at the current rate per day plus expenses for additional days spent on site troubleshooting installation errors (including, but not limited to mis-wired CAT-5 terminations). If a second site visit is required, full initial daily cost will apply.
- Failure to complete any of these steps may result in postponement of site visit, or additional startup days to be billed. If a second site visit is required, full initial daily cost will apply.
- Visit includes a complete system function test as well as basic system operation and maintenance instruction.
- Depending on network design, customer requests, and time limitations, tasks performed by startup Technician may include the following:
  - Verify accuracy of nLight Installation Worksheet
  - Customize network device labels (if supplied)
  - Edit default operation
  - Perform any necessary firmware updates
  - Perform system backup
  - ½ day of training of network administrator or facility management personnel on basic operation. (Additional training time or follow up training visits can be purchased separately). Prior to arrival, a list of all Attendees for training must be provided to startup Technician.
- Refunds for unused days not given if startup tasks requires less than maximum number of days quoted.

**TRAINING consists of** (unless otherwise defined by the specifier):

- One half (1/2) day of follow up instruction by a certified JRC technician during normal business hours.
- Visits must be scheduled two weeks in advance
- Prior to arrival, a list all attendees for training must be provided to startup Technician.