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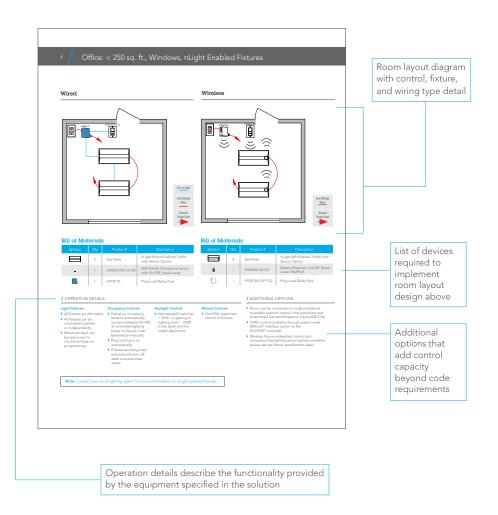
The chart below is an overview of the code requirements for typical building spaces. Please use this information as a guide. For specific code requirements, please refer to the California Code of Regulations, Title 24, Part 6.

				Space Type							
	Control Requirement <sup>1</sup>			Office < 250 sq. ft.	Open Office > 250 sq. ft.	Conference, Meeting Room	Classroom, Lecture Hall, Training Room	Lobby	Corridor	Restroom	Stairwell
	Area Control <sup>2</sup>	130.1(a)	All luminaires shall be functionally controlled with manual on and off lighting controls.	<b>~</b>	<b>~</b>	<b>4</b>	<b>~</b>	<b>4</b>	<b>4</b>	<b>~</b>	<b>~</b>
ontrol	Timeclock	130.1(c) 1	All areas not shut off by occupancy sensing must be shut off by a time switch control when the space is typically unoccupied.		<b>~</b>			<b>~</b>	<b>*</b>	<b>*</b>	<b>✓</b>
Shut-Off Control	Automatic Full- Off via Occupancy Sensor <sup>3</sup>	130.1(c) 5	Occupant-sensing controls must be used in specific areas to shut off lighting.	<b>~</b>	(or)	<b>*</b>	<b>~</b>	(or)	(or)	(or)	(or)
	Automatic Partial-Off via Occupancy Sensor <sup>3</sup>	130.1(c) 6 & 7	Partial-off occupancy sensing may be used in combination with another form of full automatic shutoff (exception: parking garage areas may use just partial-off sensing).						<b>~</b>		<b>~</b>
ontrol	Multi-Level Lighting Controls	130.1(b)	Any enclosed area ≥ 100 ft² with a lighting power density > 0.5 W/ft², shall provide multi-level lighting control.	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>		<b>~</b>	
Light Level Control	Automatic Multi-Level Daylight Controls	130.1(d)	Areas in designated daylight zones with total power ≥ 120 watts use automatic multi-level daylight controls.	<b>✓</b>	<b>✓</b>	<b>4</b>	<b>✓</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
Additional Controls	Demand Response	110.12(c), (e) 130.1(e)	Buildings having a total installed lighting power of ≥ 4,000W shall be capable of automatically reducing lighting power, including controlled receptacles in response to demand response signals.	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>	<b>~</b>
Addition	Receptacle (i.e., Plug Load) Control <sup>4</sup>	130.5(d)	Both controlled and uncontrolled 120-volt receptacles shall be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, and copy rooms.	<b>~</b>	<b>~</b>	<b>~</b>		<b>~</b>			
	Daylight Availability	130.2(c) 1	Lighting shall be controlled by a photo control, astronomical time-switch control or other control to automatically shut off when daylight is available.								
Outdoor Lighting Controls	Automatic Scheduling Controls	130.2(c) 2	Controls shall be capable of reducing the lighting power by 50-90%, and capable of turning the lighting off, during scheduled unoccupied periods. Scheduling a minimum of two nighttime periods with independent lighting levels is required.								
Outdoor	Motion Sensing Controls	130.2(c) 3	Controls shall be capable of reducing the lighting power by 50-90%, and capable of turning the lighting off, during unoccupied periods. Motion sensing controls shall be capable of reducing the lighting to its dim or off state no longer than 15 minutes after the area has been vacated.								

Gymasium	Warehouse	Parking Garage	Site Lighting/Facade/ Parking Garage Roof
<b>4</b>	<b>~</b>	<b>4</b>	
<b>✓</b>			
	<b>~</b>	<b>~</b>	
<b>✓</b>	<b>~</b>	<b>*</b>	
<b>4</b>	<b>*</b>	<b>✓</b>	
<b>✓</b>	<b>~</b>	<b>~</b>	
			<b>~</b>
			<b>~</b>
			<b>~</b>

This Title 24, Part 6, Applications Guide is designed to facilitate quicker and easier lighting controls solutions to help you comply with the requirements of the standards using nLight lighting controls. While there are many ways to design a space to support building energy codes, use this guide as a quick reference to get your project on the path toward compliance. Our Design Services Team is also available to support engineers and contractors with detailed design, submittal, and installation assistance. For additional information, please contact your Acuity Brands sales representative.

### Room description



- Note: This summary is for general information purposes only and is provided without any warranty as to accuracy, completeness, or otherwise. The user should read the applicable code sections for more complete and detailed descriptions of code requirements and exceptions and should consult with a professional engineer or other competent advisor before making any decision or taking any action based on this summary.
- 2. Can be inaccessible to unauthorized personnel
- 3. Not required in residential areas such as hotels, condos or dormitories
- 4. Does not apply to Classrooms and Lecture Halls
- 5. In office spaces greater than 250 square feet, control zones shall not exceed 600 sq ft. Occupancy sensor controls shall be used to reduce light level of vacant zones by 80%, and lighting shall turn off after all control zones are vacant.

CAT-5e Cable

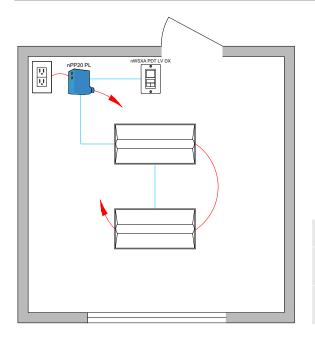
Line Voltage

Wires

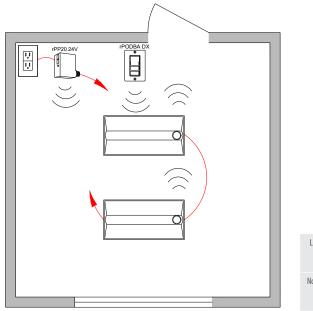
Normal Power

Feed

### Wired



### Wireless





### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	See Note	nLight Wired Enabled Troffer with Sensor Option
E	1	nWSXA PDT LV DX	Wall Switch Occupancy Sensor with On/Off, Raise/Lower
	1	nPP20 PL	Plug Load Relay Pack

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	See Note	nLight AIR Enabled Troffer with Sensor Option
Ė	1	rPODBA DX G2	Battery Powered, On/Off, Raise/ Lower WallPod
	1	rPP20 24V EFP G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
   Partial-on occupancy
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant

### **Daylight Control:**

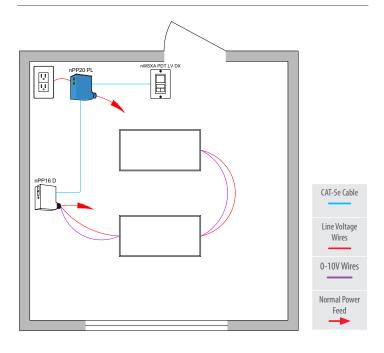
 Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone

### **Manual Control:**

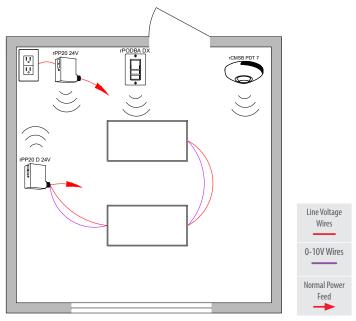
On/off & raise/lower control of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### Wireless



### **Bill of Materials**

	Qty	Product #	Description
	1	nPP16 D EFP	Relay Pack with 0-10V Dimming Output
E	1	nWSXA PDT LV DX	Wall Switch Occupancy Sensor with On/Off, Raise/Lower
	1	nPP20 PL	Plug Load Relay Pack

### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	1	rPP20 24V EFP G2	Plug Load Relay Pack
Ė	1	rPODBA DX G2	Battery Powered, On/Off, Raise/ Lower WallPod
	1	rCMSB PDT 7 G2	Battery Powered Occupancy and Davlight Sensor

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant

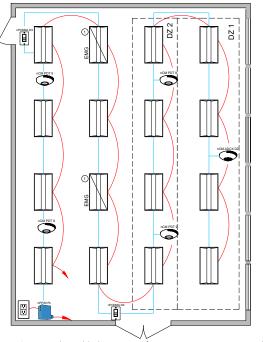
### Daylight Control:

 Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone

### Manual Control:

On/off & raise/lower control of fixtures

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

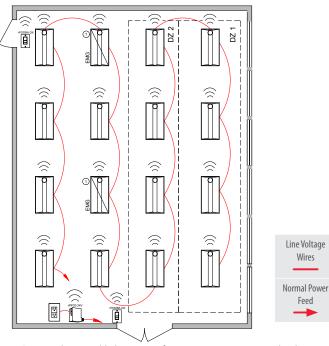




### Bill of Materials

Symbol	Qty	Product #	Description
	14	See Note	nLight Wired Enabled Fixture
	2	See Note	nLight Wired Enabled Fixture with EMG option
	2	nPODMA DX	On/Off, Raise/Lower WallPod
	4	nCM PDT 9 RJB	Occupancy Sensor
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor
	1	nPP20 PL	Plug Load Relay Pack

### Wireless



Some nLight AIR enabled emergency fixtures require separate normal and emergency connections. Wiring shown assumes battery backup emergency option. See fixture spec sheets for options and details.

### **Bill of Materials**

Symbol	Qty	Product #	Description
	14	See Note	nLight AIR Enabled Troffer with Sensor Option
	2	See Note	nLight AIR Enabled Troffer with Sensor and Battery Option
	2	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod
	1	rPP20 24V EFP G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### Occupancy Control:

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant
- Each occupancy control zone will not exceed 600 sq ft, will dim to 20% output or less when vacant, and will turn off when all zones are vacant

### **Daylight Control:**

 Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone

CAT-5e Cable

Line Voltage

Wires

Normal Power

Feed

- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

### Manual Control:

On/off & raise/lower control of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet<sup>®</sup> interface option on the ECLYPSE<sup>®</sup> controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

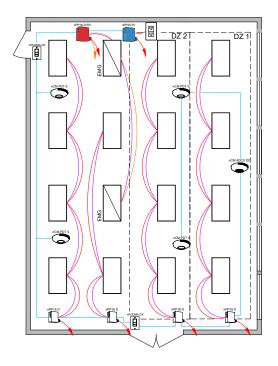
Wires

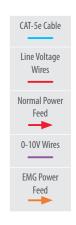
Feed

**EMG Power** 

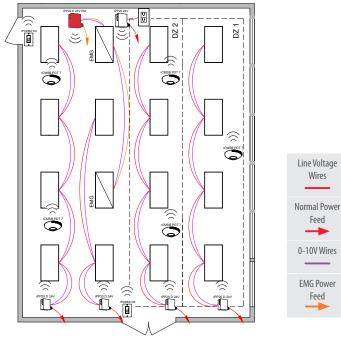
Feed

### Wired





### Wireless



nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

### **Bill of Materials**

Symbol	Qty	Product #	Description
	4	nPP16 D EFP	Relay Pack with 0-10V Dimming Output
	1	nPP16 D ER EFP	Emergency Relay Pack with 0-10V Dimming Output
Ē	2	nPODMA DX	On/Off, Raise/Lower WallPod
	4	nCM PDT 9 RJB	Occupancy Sensor
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor
	1	nPP20 PL	Plug Load Relay Pack

### **Bill of Materials**

Symbol	Qty	Product #	Description
	4	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	1	rPP20 D 24V EM EFP G2	Emergency Relay Pack with 0-10V Dimming Output
Ė	2	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod
	5	rCMSB PDT 7 G2	Battery Powered Occupancy and Daylight Sensor
	1	rPP20 24V EFP G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes
- Each occupancy control zone will not exceed 600 sq ft, will dim to 20% output or less when vacant, and will turn off when all zones are vacant

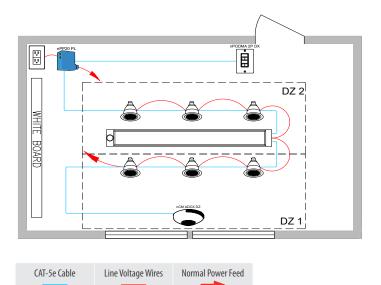
### **Daylight Control:**

- Not required if room has < 24 ft². of glazing or</li> lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Daylight zones defined by relay packs

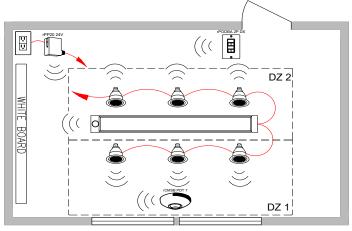
### **Manual Control:**

On/off & raise/lower control of fixtures

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### Wireless





### **Bill of Materials**

Symbol	Qty	Product #	Description
0	1	See Note	nLight Wired Enabled Linear Fixture with Sensor Option
	6	See Note	nLight Wired Enabled Downlight Fixture
	1	nPODMA 2P DX	2-Pole, On/Off, Raise/Lower WallPod
	1	nPP20 PL	Plug Load Relay Pack
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor

### **Bill of Materials**

Symbol	Qty	Product #	Description
0	1	See Note	nLight AIR Enabled Linear Fixture with Sensor Option
	6	See Note	nLight AIR Enabled Downlight Fixture
Ė	1	rPODBA 2P DX G2	Battery Powered, 2-Pole, On/ Off, Raise/Lower WallPod
	1	rPP20 24V EFP G2	Plug Load Relay Pack
	1	rCMSB PDT 7 G2	Battery Powered Occupancy and Daylight Sensor

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant

### **Daylight Control:**

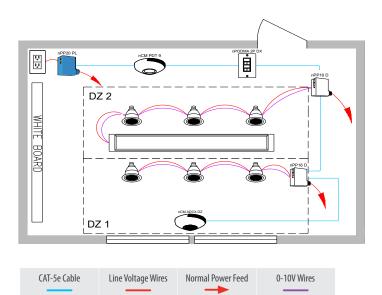
- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

### **Manual Control:**

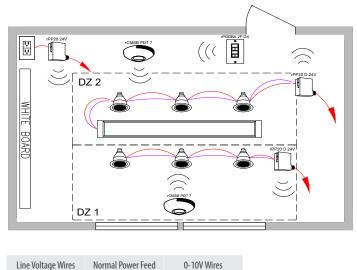
 On/off & raise lower control of two zones of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### **Wireless**



### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	nPP16 D EFP	Relay Pack with 0-10V Dimming Output
Ė	1	nPODMA 2P DX	2-Pole, On/Off, Raise/ Lower WallPod
	1	nCM PDT 9 RJB	Occupancy Sensor
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor
	1	nPP20 PL	Plug Load Relay Pack

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
Ė	1	rPODBA 2P DX G2	Battery Powered, 2-Pole, On/ Off, Raise/Lower WallPod
	2	rCMSB PDT 7 G2	Battery Powered Occupancy and Daylight Sensor
	1	rPP20 24V EFP G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant

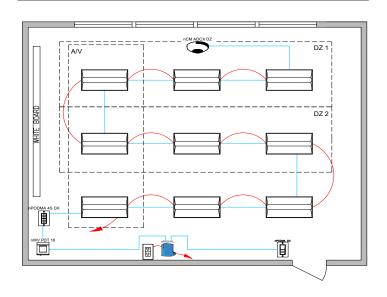
### **Daylight Control:**

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Daylight zones defined by relay packs

### **Manual Control:**

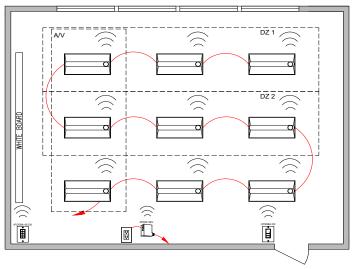
 On/off & raise lower control of two zones of fixtures

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet





### Wireless



Line Voltage Wires	Normal Power Feed
	-

### **Bill of Materials**

Symbol	Qty	Product #	Description
	9	See Note	nLight Wired Enabled Troffer
	1	nPODMA DX	On/Off, Raise/Lower WallPod
	1	nPP20 PL	Plug Load Relay Pack
Ē	1	nPODMA 4S DX	Teacher Station — 4 Scene Control with Master On/Off & Raise/Lower
	1	nWV PDT 16	Dual Technology Wide View Occupancy Sensor
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor

### **Bill of Materials**

Symbol	Qty	Product #	Description
	9	See Note	nLight AIR Enabled Troffer with Sensor Option
	1	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod
	1	rPODBA 4S DX G2	Teacher Station — Battery Powered 4 Scene Control with Master On/Off & Raise/Lower
	1	rPP20 24V EFP G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Fixture automatically turn off when room becomes vacant

### **Daylight Control:**

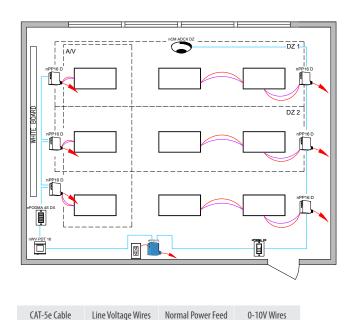
- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

### **Manual Control:**

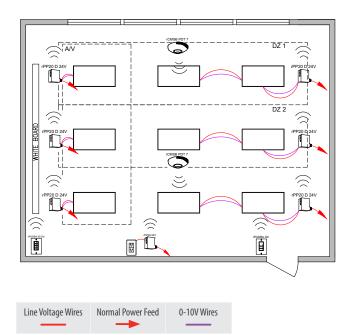
- On/off & raise/lower control of fixtures
- Teacher station with 4 preset scenes

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### Wireless



### **Bill of Materials**

Symbol	Qty	Product #	Description
	6	nPP16 D EFP	Relay Module with 0-10V Dimming Output
ů,	1	nPODMA DX	On/Off, Raise/Lower WallPod
	1	nWV PDT 16	Dual Technology Wide View Occupancy Sensor
Ī	1	nPODMA 4S DX	Teacher Station — 4 Scene Control with Master On/Off & Raise/Lower
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor
	1	nPP20 PL	Plug Load Relay Pack

### **Bill of Materials**

Symbol	Qty	Product #	Description
	6	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
o l	1	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod
	2	rCMSB PDT 7 G2	Battery Powered Occupancy and Daylight Sensor
Ē	1	rPODBA 4S DX G2	Teacher Station — Battery Powered 4 Scene Control with Master On/Off & Raise/Lower
	1	rPP20 24V EFP G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### Occupancy Control:

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Fixture automatically turn off when room becomes vacant

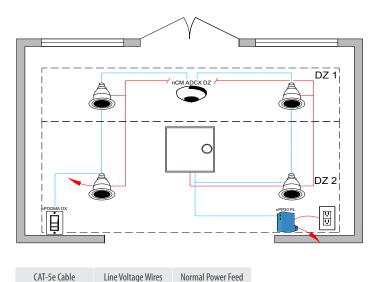
### **Daylight Control:**

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Daylight zones defined by relay packs

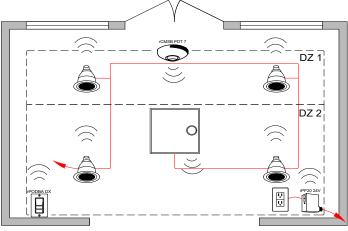
### **Manual Control:**

- On/off & raise/lower control of fixtures
- Teacher station with 4 preset scenes

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



Wireless





### **Bill of Materials**

Symbol	Qty	Product #	Description
	4	See Notes	nLight Wired Enabled Downlight
0	1	See Notes	nLight Wired Enabled Troffer with Sensor Option
	1	nPODMA DX	On/Off, Raise/Lower WallPod
	1	nPP20 PL	Plug Load Relay Pack
	1	nCM ADCX DZ RJB	Dual Zone Daylight Sensor

### **Bill of Materials**

Symbol	Qty	Product #	Description
	4	See Notes	nLight AIR Enabled Downlight
0	1	See Notes	nLight AIR Enabled Troffer with Sensor Option
	1	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod
	1	rPP20 24V G2	Plug Load Relay Pack
	1	rCMSB PDT 7 G2	Battery Powered Occupancy and Daylight Sensor

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
   Partial-on occupancy
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant

### **Daylight Control:**

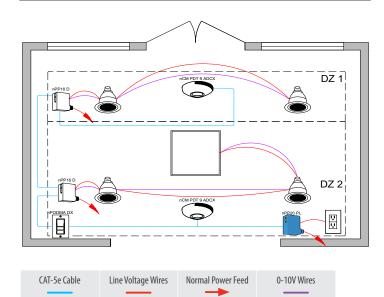
- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

### **Manual Control:**

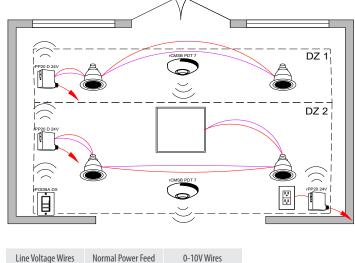
On/off & raise/lower control of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### Wireless



### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	nPP16 D EFP	Relay Pack with 0-10V Dimming Output
Ė	1	nPODMA DX	On/Off, Raise/Lower WallPod
	2	nCM PDT 9 ADCX	Occupancy and Daylight Sensor
	1	nPP20 PL	Plug Load Relay Pack

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
Ė	1	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod
	2	rCMSB PDT 7 G2	Battery Powered Occupancy and Daylight Sensor
	1	rPP20 24V G2	Plug Load Relay Pack

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Plug load turns on automatically
- Fixtures and plug load automatically turn off when room becomes vacant

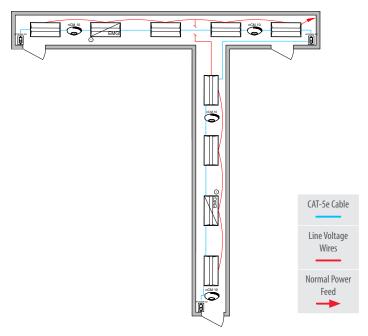
### Daylight Control:

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Daylight zones defined by relay packs

### **Manual Control:**

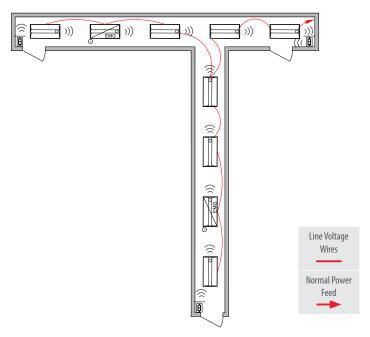
 On/off & raise/lower control of fixtures

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet<sup>®</sup> interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



Osome nLight enabled emergency fixtures require separate normal and emergency connections. Wiring shown assumes battery backup emergency option. See fixture spec sheets for options and details.

### Wireless



Osome nLight AIR enabled emergency fixtures require separate normal and emergency connections. Wiring shown assumes battery backup emergency option. See fixture spec sheets for options and details.

### **Bill of Materials**

Symbol	Qty	Product #	Description
	7	See Note	nLight Wired Enabled Troffer
	2	See Note	nLight Wired Enabled Troffer with Battery Option
	4	nCM 10 RJB	Occupancy Sensor
Ê	3	nPODMA DX	On/Off, Raise/Lower WallPod

### **Bill of Materials**

Symbol	Qty	Product #	Description
	7	See Note	nLight AIR Enabled Troffer with Sensor Option
	2	See Note	nLight AIR Enabled Troffer with Battery Option
Ė	3	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### Occupancy Control:

 Fixtures automatically turn off or optionally can be configured to drop to low dim setting of at least 50% when space becomes vacant

### Daylight Control:

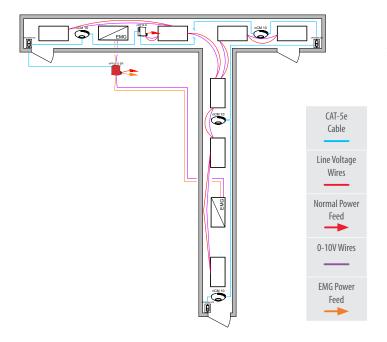
- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

### Manual Control:

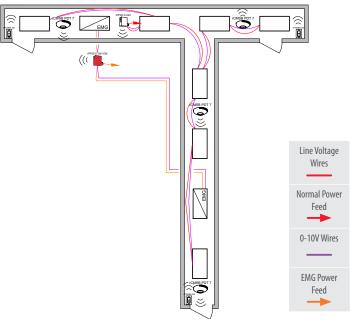
On/off & raise/lower control of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet<sup>®</sup> interface option on the ECLYPSE<sup>®</sup> controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### **Wireless**



1 nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	nPP16 D EFP	Relay Pack with 0-10V Dimming Output
	1	nPP16 D ER EFP	Emergency Relay Pack with 0-10V Dimming Output
	4	nCM 10 RJB	Occupancy Sensor
Ė	3	nPODMA DX	On/Off, Raise/Lower WallPod

### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	1	rPP20 D 24V EM EFP G2	Emergency Relay Pack with 0-10V Dimming Output
	4	rCMSB PDT 7 G2	Battery Powered Occupancy Sensor
Ė	3	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

 Fixtures automatically turn off or optionally can be configured to drop to low dim setting of at least 50% when space becomes vacant

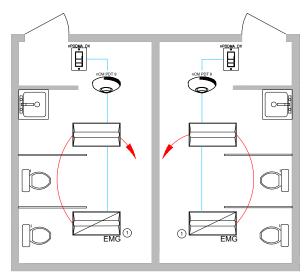
### Daylight Control:

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Daylight zones defined by relay packs

### Manual Control:

On/off & raise/lower control of fixtures

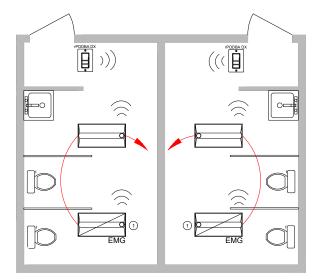
- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



Ome nLight enabled emergency fixtures require separate normal and emergency connections. Wiring shown assumes battery backup emergency option. See fixture spec sheets for options and details.



### Wireless



Some nLight AIR enabled emergency fixtures require separate normal and emergency connections. Wiring shown assumes battery backup emergency option. See fixture spec sheets for options and details.

Line Voltage Wires	Normal Power Feed
	<b>→</b>

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	See Note	nLight Wired Enabled Troffer
	2	See Note	nLight Wired Enabled Troffer with Battery Option
	2	nCM PDT 9 RJB	Occupancy Sensor
Ė	2	nPODMA DX	On/Off, Raise/Lower WallPod

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	See Note	nLight AIR Enabled Troffer with Sensor Option
	2	See Note	nLight AIR Enabled Troffer with Battery Option
Ė	2	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### Occupancy Control:

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Fixture automatically turn off when room becomes vacant

### **Daylight Control:**

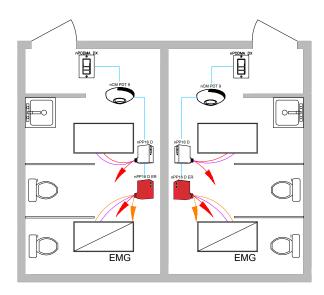
- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

### Manual Control:

On/off & raise/lower control of fixtures

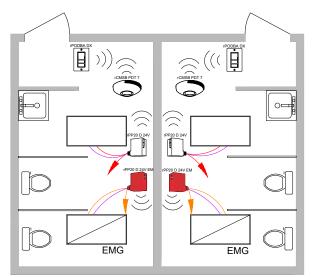
### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



# CAT-5e Cable 0-10V Wires Line Voltage Wires Normal Power Feed EMG Power Feed

### Wireless



1 nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

0-10V Wires	Line Voltage Wires	Normal Power Feed	EMG Power Feed
		<b>→</b>	<b>→</b>

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	nPP16 D EFP	Relay Pack with 0-10V Dimming Output
	2	nPP16 D ER EFP	Emergency Module with 0-10V Dimming Output
	2	nCM PDT 9 RJB	Occupancy Sensor
Ė	2	nPODMA DX	On/Off, Raise/Lower WallPod

### Bill of Materials

Symbol	Qty	Product #	Description
	2	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	2	rPP20 D 24V EM EFP G2	Emergency Relay Pack with 0-10V Dimming Output
	2	rCMSB PDT 7 G2	Battery Powered Occupancy Sensor
	2	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Fixtures are controlled based on power pack line voltage and 0-10V wiring
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Fixture automatically turn off when room becomes vacant

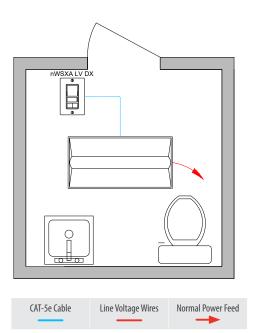
### **Daylight Control:**

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Daylight zones defined by relay packs

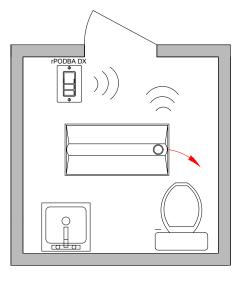
### Manual Control:

On/off & raise/lower control of fixtures

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE controller or through occupancy sensor auxiliary relay (AR) contact option
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet



### **Wireless**





### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	See Note	nLight Wired Enabled Troffer
	1	nWSXA LV DX	Wall Switch Occupancy Sensor with On/Off, Raise/Lower

### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	See Note	nLight AIR Enabled Troffer with Sensor Option
Ė	1	rPODBA DX G2	Battery Powered, On/Off, Raise/ Lower WallPod

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
   Partial-on occupancy
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Fixture automatically turns off when room becomes vacant

### Manual Control:

On/off & raise/lower control of fixtures

Note: Contact your local lighting agent for more information on nLight enabled fixtures.

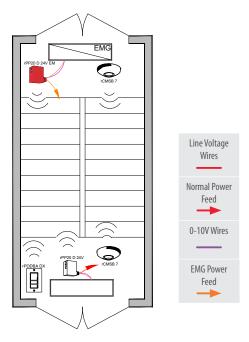
- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

### Wireless with nLight Enabled Fixtures

# Normal Power Feed EMG Power Feed

Fixture(s) assumed to include nLight AIR EM emergency options. For battery backup option, no dedicated emergency circuit necessary. nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

### Wireless with 0-10V Dimming Fixtures



① nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	See Note	nLight AIR Enabled Fixture with Sensor Option
	1	See Note	nLight AIR Enabled Fixture with Sensor and EM Option
	1	rPODBA DX G2	Battery Powered, On/Off, Raise/Lower WallPod

### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	1	rPP20 D 24V EM EFP G2	Emergency Relay Pack with 0-10V Dimming Output
	2	rCMSB PDT 7 G2	Battery Powered Occupancy Sensor
Ė	1	rPODBA DX G2	Battery Powered, On/Off, Raise/

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### Occupancy Control:

 Fixtures automatically turn off or optionally can be configured to drop to low dim setting of at least 50% when space becomes vacant

### Daylight Control:

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

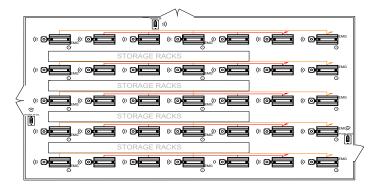
### **Manual Control:**

On/off & raise/lower control of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet<sup>®</sup> interface option on the ECLYPSE<sup>®</sup> controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

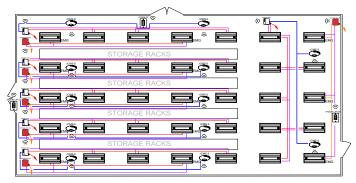
### Wireless with nLight Enabled Fixtures



Fixture(s) assumed to include nLight AIR EM emergency options. For battery backup option, no dedicated emergency circuit necessary. nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.



### Wireless with 0-10V Dimming Fixtures



nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

Low Voltage Wires	0-10V Wires	Line Voltage Wires	Normal Power Feed	EMG Power Feed
			<b>→</b>	<b>→</b>

### **Bill of Materials**

Symbol	Qty	Product #	Description
	20	See Note	nLight AIR Enabled High Bay Fixture with Sensor Option
	15	See Note	nLight AIR Enabled High Bay Fixture with Sensor and EM Option
	1	rPODBA 2P G2	Battery Powered, 2-Pole, On/Off WallPod
	2	rPODBA 2P DX G2	Battery Powered, 2-Pole, On/ Off, Raise/Lower WallPod

### **Bill of Materials**

Symbol	Qty	Product #	Description
	6	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	6	rPP20 D 24V EM EFP G2	Emergency Relay Pack with 0-10V Dimming Output
	1	rPODBA 2P G2	Battery Powered, 2-Pole, On/Off WallPod
Ė	2	rPODBA 2P DX G2	Battery Powered, 2-Pole, On/ Off, Raise/Lower WallPod
	12	rCMS 6 G2	Occupancy Sensor

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

 Fixtures automatically turn off or optionally can be configured to drop to low dim setting of at least 50% when space becomes vacant

### **Daylight Control:**

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming

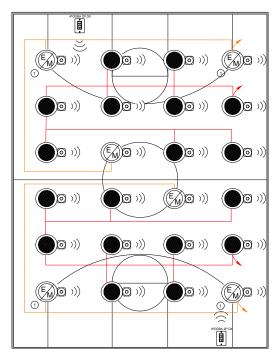
### **Manual Control:**

On/off control of two zones of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

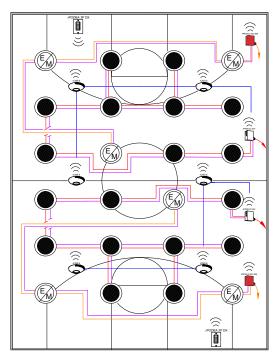
### Wireless with nLight Enabled Fixtures



Tixture(s) assumed to include nLight AIR EM emergency options. For battery backup option, no dedicated emergency circuit necessary. nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.



### Wireless with 0-10V Dimming Fixtures



nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

Low Voltage Wires	0-10V Wires	Line Voltage Wires	Normal Power Feed	EMG Power Feed	
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### **Bill of Materials**

Symbol	Qty	Product #	Description
<b>O</b> 0	18	See Notes	nLight AIR Enabled Fixture with Sensor Option
<b>©</b>	6	See Notes	nLight AIR Enabled Fixture with Sensor and EM Option
ů	2	rPODBA 2P DX G2	Battery Powered, 2-Pole, On/ Off, Raise/Lower WallPod

### **Bill of Materials**

Symbol	Qty	Product #	Description
	2	rPP20 D 24V EFP G2	Relay Pack with 0-10V Dimming Output
	2	rPP20 D 24V EM EFP G2	Emergency Relay Pack with 0-10V Dimming Output
Ė	2	rPODBA 2P DX G2	Battery Powered, 2-Pole, On/ Off, Raise/Lower WallPod
	6	rCMS 6 G2	High Bay Occupancy Sensor

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Partial-on occupancy sensors automatically activate between 50-70% of controlled lighting power or fixtures must be turned on manually
- Fixture automatically turn off when room becomes vacant

### **Daylight Control:**

- Not required if room has < 24 ft². of glazing or lighting load < 120W in the skylit and the sidelit daylit zone
- Smooth continuous dimming

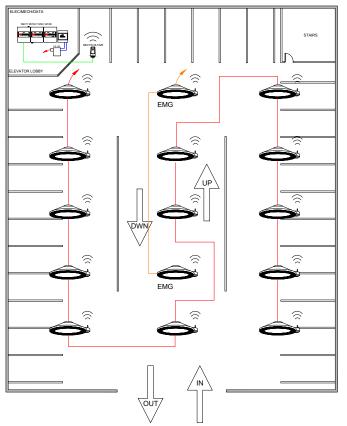
### Manual Control:

 On/off control of two zones of fixtures

### / ADDITIONAL OPTIONS:

- Room can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- HVAC control available through system-wide BACnet® interface option on the ECLYPSE® controller
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

### Wireless Parking Garage





Fixture(s) assumed to include nLight AIR EM emergency options. For battery backup option, no dedicated emergency circuit necessary. nLight AIR devices with an EM option must be grouped with a normal power sensing device to exit emergency operation. See control device spec sheet for details.

### **Bill of Materials**

Symbol	Qty	Product #	Description	
	13	See Note	nLight AIR Enabled Canopy Fixture with Sensor Option	
	2	See Note	nLight AIR Enabled Canopy Fixture with Sensor and EM Option	
	1	nECY	nLight ECLYPSE Network System Controller with Graphic Touchscreen	
Q	1	nECYD NLTAIR G2	nLight AIR Adapter	

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

 Fixtures automatically turn off or optionally can be configured to drop to low dim setting of 20-50% when space becomes vacant

### **Daylight Control:**

- Not required if room has < 36 ft². of glazing or lighting load < 60W in the sidelit daylit zone
- Smooth continuous dimming
- Custom grouping of fixtures into separate daylight zones (max. number of zones = number of fixtures)

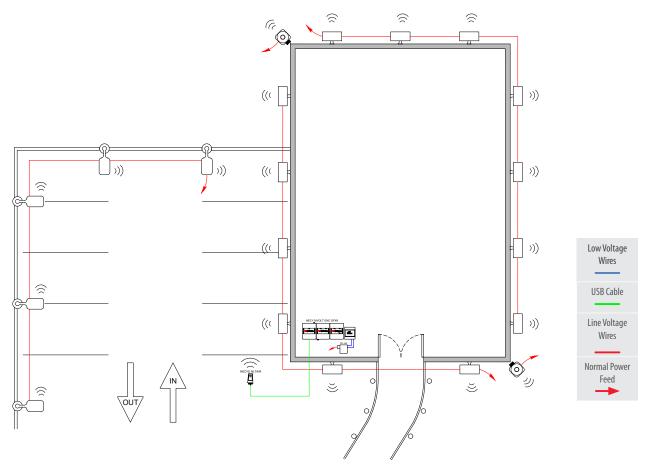
### **Manual Control:**

 On/off control of fixtures via graphic touchscreen on nECY

### / ADDITIONAL OPTIONS:

- Devices can be connected to nLight backbone to enable network control, time schedules and Automated Demand Response (OpenADR 2.0a)
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

### Wireless Site Lighting



### **Bill of Materials**

Symbol	Qty	Product #	Description	
	5	See Note	nLight AIR Enabled Area Fixture	
	13	See Note	nLight AIR Enabled Wall Mount	
	1	nECY	nLight ECLYPSE Network System Controller with Graphic Touchscreen	
	1	nECYD NLTAIR G2	nLight AIR Adapter	
Ō	2	rSBOR	nLight AIR Repeaters	

### / OPERATION DETAILS:

### **Light Fixtures:**

- All fixtures are dimmable
- All fixtures can be controlled together or independently
- Maximum level can be task tuned to any percentage via programming

### **Occupancy Control:**

- Fixtures automatically go to full bright when occupied
- Fixtures automatically turn off or optionally can be configured to reduce power by at least 50-90% when space becomes unoccupied

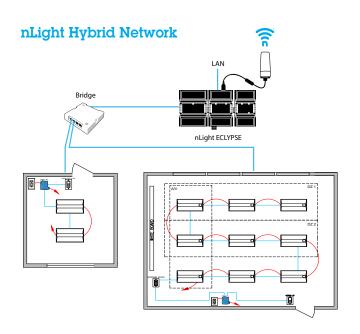
### **Daylight Control:**

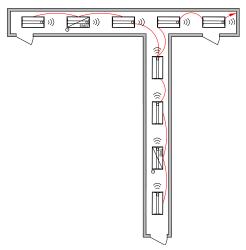
 Daylight responsive controls lights to full off when adequate daylight present

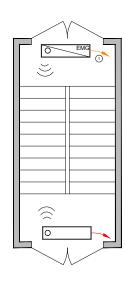
### / ADDITIONAL OPTIONS:

- Devices can be connected to nLight backbone to enable network control, time schedules, astronomical time schedules, and Automated Demand Response (OpenADR 2.0a)
- Wireless fixture embedded control and occupancy/daylighting sensor options available, please see the fixture specification sheet

# nLight Hybrid Networked Lighting Control: Programmable Time Clock and Automatic Demand Response







### **Bill of Materials**

Symbol	Qty	Product #	Description
	1	nBRG 8 KIT	8-Port Backbone Bridge
	1 nECY MVOLT EI	nECY MVOLT ENC	nLight ECLYPSE Network System Controller and Optional BMS Interface
	1	nECYD NLTAIR G2	nLight AIR Adapter

## Programmable Time Clock Control:

Although not pictured within each of the individual room design guides, each nLight Control Zone can be connected via an nLight backbone to create a networked nLight lighting control system capable of meeting the requirements of CA Title 24, Part 6, automatic time-switch and demand response provisions [sections 130.1(c)1 and 130.1(e), respectively]. A networked system also enables astronomical time clock control.

### Automatic Demand Response (ADR):

In buildings with more than 4,000W of lighting power, lighting power must be capable of being automatically reduced by a minimum of 15% in response to an automatic demand response signal (ADR) to meet the requirements of CA Title 24, Part 6, demand response control [section 130.1(e)]. OpenADR is an open and standardized way for electricity providers to communicate demand response signals with their customers using a common language over any existing IP-based communications network, such as the Internet.

# nLight Enabled Fixtures

Acuity Brands offers the industry's broadest portfolio of controls enabled fixtures. Please scan the QR code to see the current nLight enabled fixtures.



nLight AIR Enabled Luminaires



nLight Wired Enabled Luminaires

# CLAIRITY™+ Mobile App

Quick and Easy Lighting Configuration and Control In the Palm of Your Hand









The nLight Wired micro-application of CLAIRITY+ is a cost-effective method that simplifies programming and reduces start-up times for nLight devices in smaller projects.

The Bluetooth® word mark and logos are registered trademarks owned by Bluettoth SIG, Inc. and any use of such marks by Acuity Brands Lighting is under license.

### nLight AIR



The nLight AIR application provides easy startup, configuration and modification of nLight® AIR wireless controls. This cloud connected app allows validated end users (electrical contractors, sales agents or facility maintenance professionals) to start up, configure and troubleshoot from a compatible smartphone or tablet.

	Control Code Requirement Provision		nLight Solu	ition Details		
			nLight WallPod devices provide a user with local control of lighting within WallPods are available in multiple styles – each with varying features and			
			Push-Button WallPod	Graphic WallPod*		
	Area Control	130.1(a)	nPODMA Series rPODBA Series rPODLA nPODA Key	nLight UNITOUCH Touchscreen Wall Switch		
			Traditional tactile buttons and LED user feedback.	Full-color touch screen provides a sophisticated look and feel.		
			Individual nLight control groups (i.e.: rooms) can be easily networked toge "backbone" made up of one or more nLight bridge devices and/or nLight controller provides programmable time clock functionality for an nLight ne	AIR adapters and an nLight ECLYPSE system controller. The system		
-	Programmable	130.1(c)1 130.2(c)2	Network System Controller			
Shut-Off Control	Timeclock and Automatic Scheduling Controls		Network System Controller	Control Contro		
			Additional benefits of installing an nLight backbone include remote status interface capability, and ADR interface capability.	monitoring, system-wide configuration changes, and BMS		
	Automatic Full-Off via Occupancy Sensor	130.1(c) 5	nLight occupancy sensors utilize 100% digital passive infrared (PIR) detect options. Additionally, nLight sensors are available with patented Micropho for full off vs. partial off control is done with system programming.	ion, come in several mounting styles, and offer multiple coverage pattern onics™ dual technology detection for rooms with obstructions. Configuring		
		a 130.1(c) 6 & 7	360° Occupancy Sensor	120° WideView Corner Sensor*		
	Automatic Partial-Off via Occupancy Sensor		nCM Series rCMS Series rCMSB Series	nWV Series		
			Surface mounts to ceiling tiles or sheetrock/plaster.	Directly mounts in corner or to ceiling via repositionable ceiling bracket.		

<sup>\*</sup>Available with nLight Wired products only.

Note: This summary is for general information purposes only and is provided without any warranty as to accuracy, completeness, or otherwise. The user should read the applicable code sections for more complete and detailed descriptions of code requirements and exceptions and should consult with a professional engineering or other competent advisor before making any decision or taking any action based on this summary.

	Control Requirement	Code Provision	nLight Solu	ition Details
Light Level Control	Multi-Level Lighting Controls and Outdoor Lighting Controls	130.1(b) 130.2(c)1 130.2(c)3	nLight provides multiple options for controlling continuous dimming luminaires. This allows spaces with several lighting types and technologies to be controlled together and with a common user experience.	
			nLight Enabled Acuity Brands Fixtures	Dimming Relay Packs
				nPP16 Series rPP20 Series
			Acuity Brands offers a wide variety of LED fixtures with factory installed integrated nLight controls that provide smooth continuous dimming.	nLight dimming relay enable control of any 0-10VDC dimmable LED luminaire.
	Automatic Multi- Level Daylight Controls	130.1(d)	nLight offers standalone daylight harvesting sensors as well as occupancy sensors with integrated daylight harvesting. Sensors are available in various housings and provide continuous dimming control of any/all networked nLight enabled fixtures or dimming relay packs, each capable of being its own daylight zone.	
			Ceiling Mount Dimming Photocell	Recessed Mount Dimming Photocell*
			nCM Series rCMS Series rCMSB Series	nRM Series
Additional Controls	Receptacle (i.e., Plug Load) Control	130.5(d)	The nLight Plug Load Relay Pack is capable of switching an entire 20A receptacle load. Simply add an occupancy sensor to an nLight Control Zone (room) and the sensor will automatically switch off when the room is vacant.	
			Plug Load / Receptacle Relay Pack	
			nPP20 PL Series	rPP20 Series

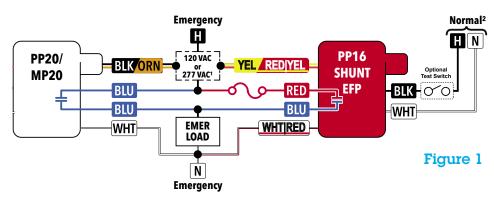
# Title 24 2022 and Emergency Lighting

The nLight platform offers flexible, UL 924 compliant control of emergency lighting. It addresses the needs of conventional projects that use extra wiring to charge battery packs inside of fixtures or to tell control devices to enter an emergency state when normal power is lost. Traditional lighting controls would make use of a shunt device in addition to a lighting control device (Figure 1). nLight consolidates the shunt device and lighting control device into a single digital device, which reduces installation and maximizes control (Figure 2). Wireless products also offer power detection through devices connected to normal power to initiate emergency control when normal power is lost. This modern method removes the need for extra wiring, further reducing the cost of installing emergency controls without sacrificing the intelligence and configurability that is expected from nLight devices (Figure 3).

- Areas designated as security or emergency areas that are required to be continuously lighted.
- Interior exit stairways, interior exit ramps and exit passageways.
- Emergency egress lighting that is normally off.
- Lighting for covered vehicle entrances or exits from buildings or parking structures where required for safety, security or eye adaptation.

Generally speaking, lighting that is normally on during occupied periods, normally dimmed or off during unoccupied periods, and also used to provide for egress during emergency power conditions should be controlled. nLight features various UL 924 listed options that can be specified to provide both lighting control in compliance with emergency operation.

### **Traditional Shunt**



### Control With Built-In Emergency Option Via Normal Power Sense

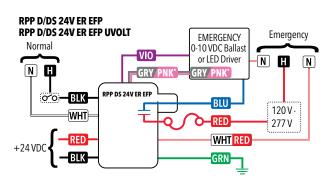


Figure 2

## Control With Built-In Emergency Option Via nLight AIR EM

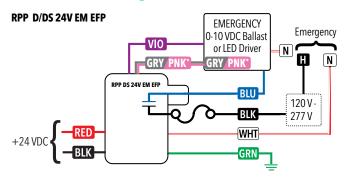


Figure 3

# nLight®

### Title 24 2022 Applications Guide

In addition to being North America's leading manufacturer of indoor and outdoor luminaires, Acuity Brands offers an extensive portfolio of advanced lighting control and building technology solutions for indoor and outdoor applications, from single-room control to fully connected smart building management and space utilization. Our products, technology, expertise and support include occupancy and photosensors, centralized and distributed systems, panels, luminaire-integrated wired/wireless networked controls and IoT platform services, including space utilization solutions.

### nLight Solution Typical Layout Drawings

https://www.acuitybrands.com/resources/customer-tools/typicals

### California Energy Commission 2022 Energy Standards

https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency

### **California Lighting Technology Center**

https://cltc.ucdavis.edu/

### **Energy Code Ace**

https://energycodeace.com/

### Use the Following Sections of the Title 24 Code as Reference:

Section 100.1 – Definitions and rules of construction

Section 110.9 – Mandatory requirements for lighting control devices and systems, ballasts and luminaires

Section 130.0 - Lighting controls and equipment - general

Section 130.1 – Indoor lighting controls that shall be installed

Section 130.2 - Outdoor lighting controls and equipment

Section 130.4 – Lighting control acceptance and installation certificate requirements

Section 130.5 – Electrical power distribution systems

Section 140.3 - Prescriptive requirements for building envelopes

Section 140.6 – Prescriptive requirements for indoor lighting

