# MARK ARCHITECTURAL LIGHTING™

## CHISEL 2'X2'
### Recessed – Tunable White

CHISEL reveals the shape of light with soft luminous gradients and textures that add depth and character to any design. 5 forms, 4 luminous effects and 3 textured patterns allow for endless options to create clusters and unique layouts that deliver high quality volumetric lighting for practical performance and design impact.

**Type:**

**Project:**

**Catalog Number:**
DO NOT TYPE HERE. Autopopulated field.

## Specification Features

**Housing**
Extruded aluminum housing. 2'x2' 20 lbs.

**Finish**
Painted after fabrication, high reflectance matte white.

**Reflector**
High-impact, 97% reflective vacuum-formed polymer reflector with textured pattern and satin white finish.
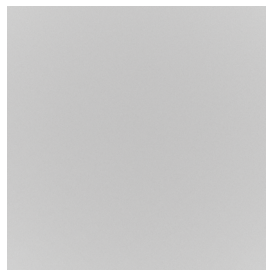
**Mounting**
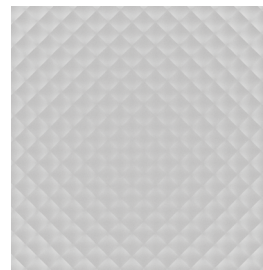Recessed. Available 9/16" and 15/16" flat, 9/16" screw slot or 9/16" narrow.

**Lens**
Clear acrylic sanitary lens options seals off aperture for easy wipe down in healthcare applications.

See page 2 for additional specifications.
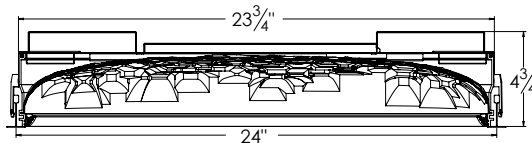
### Texture

MNML

WVE

PYR

### Section View

23 3/4"
24"
4 3/4"

## Ordering

**Example**: CHSL 2X2 G9 80CRI TUWH RHYR 3000LM PYR 2SDP DARK 120 NLT

| Series | Size | | Ceiling Trim | | LED Color Rendering | | Dynamic Feature | | Dynamic Range | | LED Output[2] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHSL | 2X2 | 2'X2' | DF | Tegular tee slot[1] | 80CRI | 80+ CRI | TUWH | Tunable white | PROR | Productivity range (3000-5000K) | 1000LM | 1000 Lumens |
| | | | G9 | 9/16" inverted tee | 90CRI | 90+ CRI | | | RHYR | Rhythm range (2700-6500K) | 1500LM | 1500 Lumens |
| | | | G15 | 15/16" inverted tee | | | | | | | 2000LM | 2000 Lumens |
| | | | | | | | | | | | 2500LM | 2500 Lumens |
| | | | | | | | | | | | 3000LM | 3000 Lumens |
| | | | | | | | | | | | 3500LM | 3500 Lumens |
| | | | | | | | | | | | 4000LM | 4000 Lumens |

| Texture | | Directional Gradient | | Minimum Dimming Level | | Voltage | | Emergency Options | | Control Input | | Options | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MNML | Minimalist | 1SD | Side | DARK | Constant Current, Dimming to < 1% | 120 | 120V | E10WCP[4] | 10-watt emergency battery pack | NLT | nLight with nTune interface | SNL | Sanitary lens |
| WVE | Weave | 2SDP | Parallel | | | 277 | 277V | | | | | AMF[5] | Anti-microbial finish |
| PYR | Pyramid | 2SDPO[3] | 2 sides, Parallel opposite | | | 347 | 347V | EMG[4] | Emergency generator power | | | | |
| | | 2SDC | Corner | | | | | | | | | | |
| | | 4SD | All | | | | | | | | | | |
| | | 4SDPO[3] | 4 sides, Parallel opposite | | | | | | | | | | |
| | | 4SDCO[3] | 4 sides, Corner opposite | | | | | | | | | | |

See page 3 for detailed explanation of Corner & Parallel Opposite options.

**Notes**
1. Available for 9/16" grid only.
2. See table for delivered lumens/fixture.
3. Opposite sides contrasting CCT.
4. Not available with 347 option.
5. Must select SNL with AMF

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## Specification Features (continued)

**Electrical**
Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

**Color Consistency**
The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

**Driver**
eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming.  Supports operation between 120VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron high performance driver options also available.

**Mainstream Dynamic Tunable White with nTune Technology**
nTune is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system for everyday applications. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment.

**Certification**
UL Certified to meet U.S. and Canadian standards, rated for damp locations.

**Healthcare Applications**
This fixture is suitable for use in healthcare applications such as patient rooms, nursing stations, long term care and hallways when the optional sanitary lens and antimicrobial paint are specified.
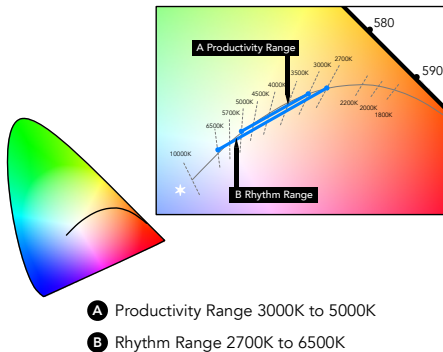
**Warranty**
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.
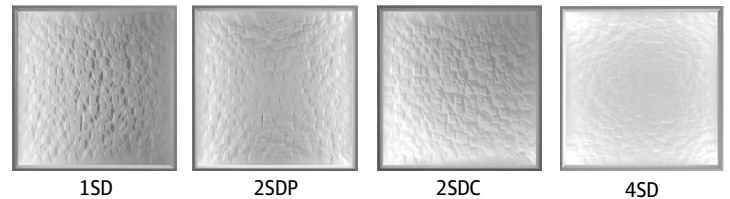
Specifications subject to change without notice.



**Tunable White GPHD**
- **Gamut**: One dimensional warm-Cool
- **Path**: Direct 3000K to 5000k (Productivity Range) or 2700K to 6500K (Rhythm Range)
- **Handle**: Two Natural Language Handles: Intensity and CCT
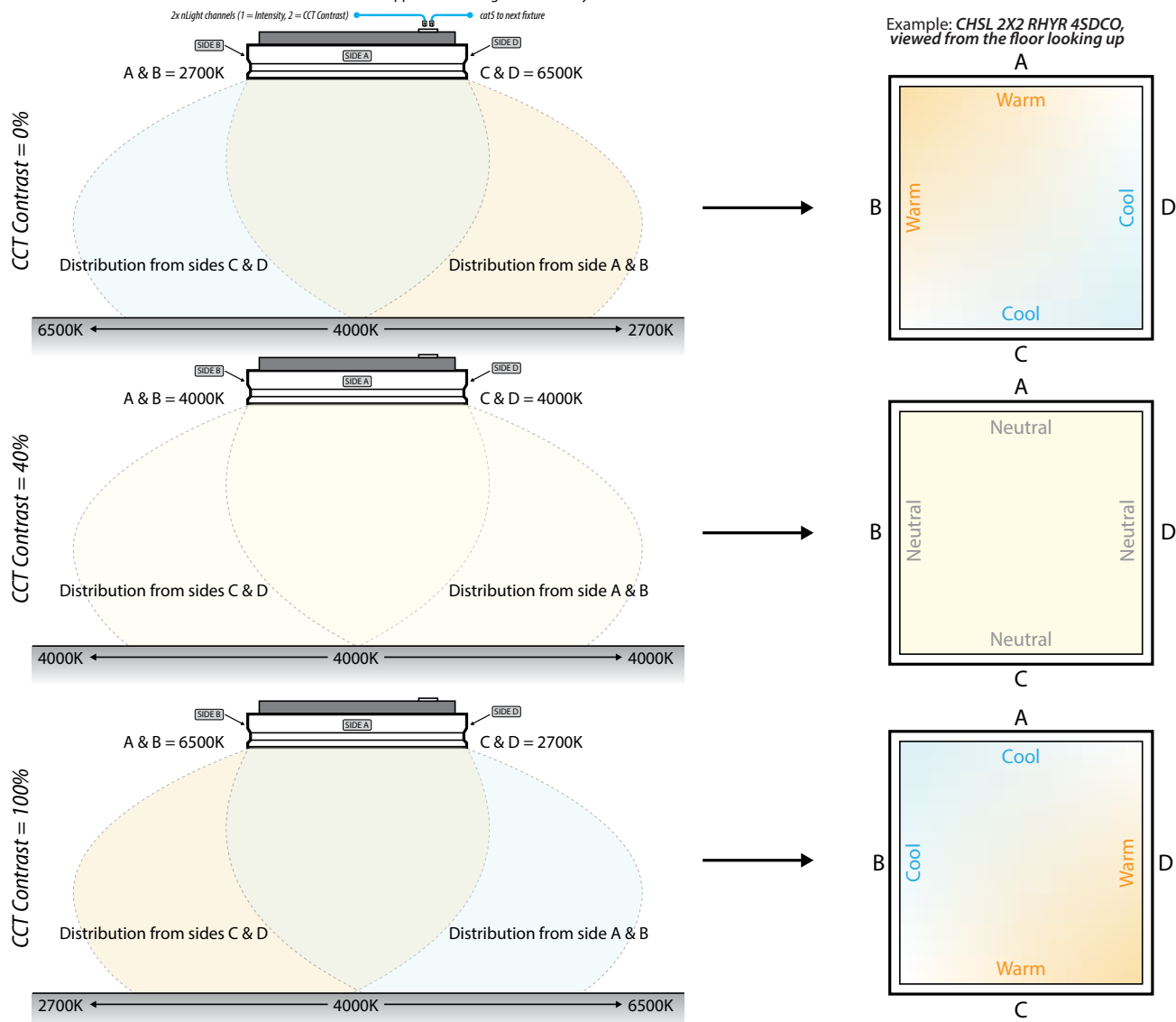- **Data**: nLight with nTune technology for both handles of control

Ⓐ Productivity Range 3000K to 5000K

Ⓑ Rhythm Range 2700K to 6500K

## Directional Gradient



| 1SD | 2SDP | 2SDC | 4SD |

## Fixture Performance

| LED Output | Directional Gradient | Rhythm Range (RHYR) | | | | | | Productivity Range (PROR) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Total Lumens | | | Lumens Per Watt | | | Total Lumens | | | Lumens Per Watt | | |
| | | 2700K | 4600K | 6500K | 2700K | 4600K | 6500K | 3000K | 4000K | 5000K | 3000K | 4000K | 5000K |
| 1000LM | 1SD | 770 | 762 | 874 | 74.1 | 83.3 | 90.0 | 887 | 783 | 841 | 85.3 | 85.6 | 86.6 |
| | 2SDx | 858 | 912 | 982 | 84.1 | 94.7 | 105.2 | 1005 | 956 | 922 | 98.5 | 99.2 | 98.9 |
| | 4SD | 844 | 897 | 965 | 77.8 | 87.5 | 97.2 | 988 | 940 | 906 | 91.0 | 91.7 | 91.4 |
| 1500LM | 1SD | 1199 | 1114 | 1349 | 81.6 | 92.0 | 96.8 | 1356 | 1127 | 1326 | 92.3 | 93.0 | 95.1 |
| | 2SDx | 1287 | 1322 | 1466 | 98.3 | 110.6 | 121.1 | 1495 | 1373 | 1394 | 114.1 | 114.9 | 115.2 |
| | 4SD | 1281 | 1315 | 1459 | 97.8 | 110.1 | 120.5 | 1487 | 1366 | 1387 | 113.5 | 114.3 | 114.6 |
| 2000LM | 1SD | 1673 | 1600 | 1872 | 81.2 | 95.0 | 96.5 | 1866 | 1647 | 1834 | 90.6 | 97.8 | 94.5 |
| | 2SDx | 1788 | 1746 | 2026 | 99.4 | 111.7 | 120.1 | 2053 | 1788 | 1958 | 114.1 | 114.4 | 116.1 |
| | 4SD | 1787 | 1745 | 2024 | 99.3 | 111.6 | 120.0 | 2051 | 1787 | 1956 | 114.0 | 114.3 | 116.0 |
| 2500LM | 2SDx | 2192 | 2024 | 2469 | 92.5 | 103.5 | 109.7 | 2487 | 2039 | 2428 | 105.0 | 104.3 | 107.9 |
| | 4SD | 2194 | 2026 | 2471 | 96.2 | 107.7 | 114.1 | 2489 | 2041 | 2430 | 109.2 | 108.5 | 112.2 |
| 3000LM | 2SDx | 2537 | 2365 | 2853 | 96.1 | 108.8 | 114.0 | 2866 | 2397 | 2802 | 108.5 | 110.3 | 112.0 |
| | 4SD | 2566 | 2392 | 2885 | 97.2 | 110.1 | 115.3 | 2898 | 2424 | 2834 | 109.8 | 111.5 | 113.3 |
| 3500LM | 2SDx | 2965 | 2799 | 3326 | 95.0 | 109.4 | 112.8 | 3328 | 2860 | 3262 | 106.7 | 111.7 | 110.7 |
| | 4SD | 3023 | 2854 | 3391 | 96.9 | 111.5 | 115.0 | 3394 | 2916 | 3327 | 108.8 | 113.9 | 112.9 |
| 4000LM | 2SDx | 3442 | 3292 | 3852 | 91.6 | 107.2 | 108.9 | 3840 | 3390 | 3773 | 102.2 | 110.4 | 106.6 |
| | 4SD | 3529 | 3376 | 3950 | 97.5 | 114.0 | 115.8 | 3938 | 3476 | 3869 | 108.8 | 117.4 | 113.5 |

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## LIGHTING™

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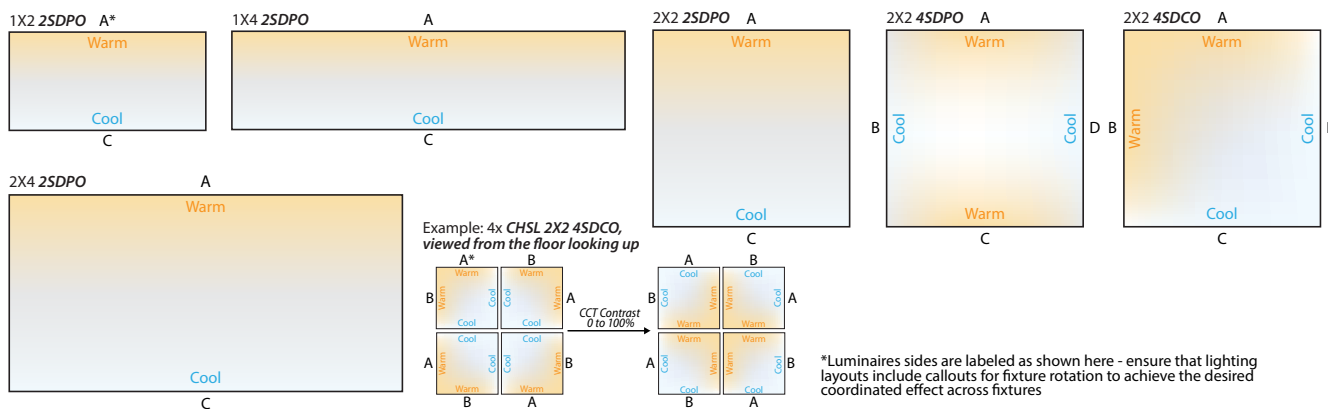### Recessed – Tunable White

## CHSL CCT Contrast - Typical Behavior

Chisel with CCT Contrast allows you to achieve a dynamic color temperature gradient effect with simplified controls. Fixtures have a single 2-channel nIO where one channel controls intensity of all sides and the other channel controls the contrast in CCT between edges - as one side of the fixture color tunes from warm to cool, the other side dependently tunes from cool to warm. The output CCT of the fixture remains fixed at 4000K even as the reflector appearance changes dramatically.
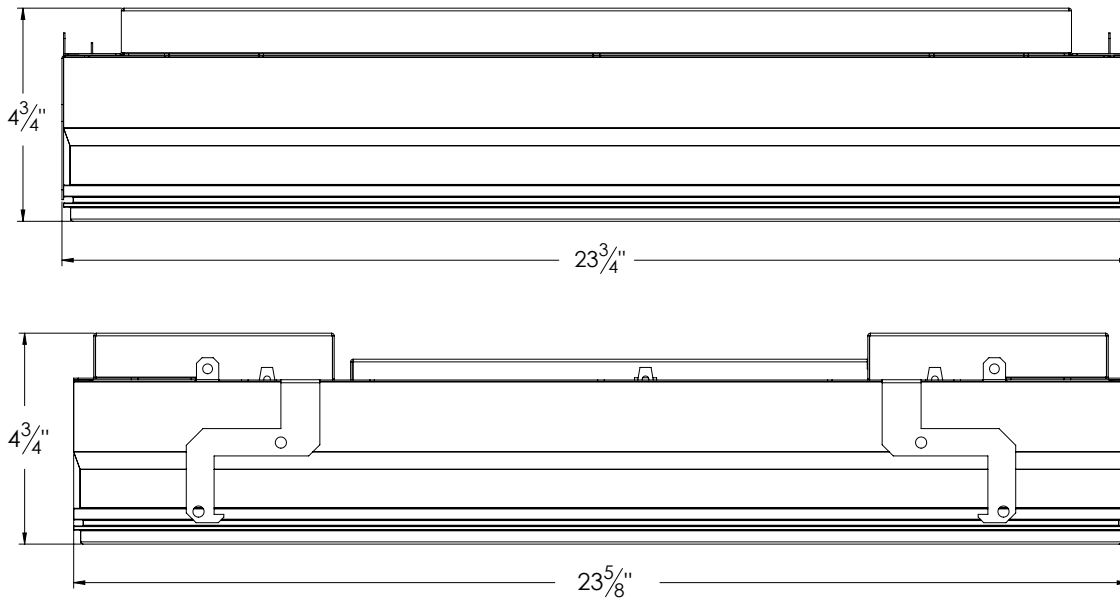


2x nLight channels (1 = Intensity, 2 = CCT Contrast)    cat5 to next fixture

Example: *CHSL 2X2 RHYR 4SDCO,*
*viewed from the floor looking up*

**CCT Contrast = 0%**

SIDE B    SIDE A    SIDE D
A & B = 2700K    C & D = 6500K

Distribution from sides C & D    Distribution from side A & B

6500K ← 4000K → 2700K

A
Warm
B Warm    Cool D
Cool
C

**CCT Contrast = 40%**

SIDE B    SIDE A    SIDE D
A & B = 4000K    C & D = 4000K

Distribution from sides C & D    Distribution from side A & B

4000K ← 4000K → 4000K

A
Neutral
B Neutral    Neutral D
Neutral
C

**CCT Contrast = 100%**

SIDE B    SIDE A    SIDE D
A & B = 6500K    C & D = 2700K

Distribution from sides C & D    Distribution from side A & B

2700K ← 4000K → 6500K

A
Cool
B Cool    Warm D
Warm
C

## CHSL CCT Contrast - Sizes and Options

1X2 *2SDPO*  A*
Warm
Cool
C

1X4 *2SDPO*  A
Warm
Cool
C

2X2 *2SDPO*  A
Warm
Cool
C

2X2 *4SDPO*  A
Warm
B Cool    Cool D
Warm
C

2X2 *4SDCO*  A
Warm
B Warm    Cool D
Cool
C

2X4 *2SDPO*  A
Warm
Cool
C

Example: 4x *CHSL 2X2 4SDCO,*
*viewed from the floor looking up*



CCT Contrast
0 to 100%

*Luminaires sides are labeled as shown here - ensure that lighting layouts include callouts for fixture rotation to achieve the desired coordinated effect across fixtures

MAINSTREAM DYNAMIC
BY ACUITY BRANDS

## Technical Drawing

$4\frac{3}{4}$"

$23\frac{3}{4}$"

$4\frac{3}{4}$"

$23\frac{5}{8}$"

## Ceiling Trim

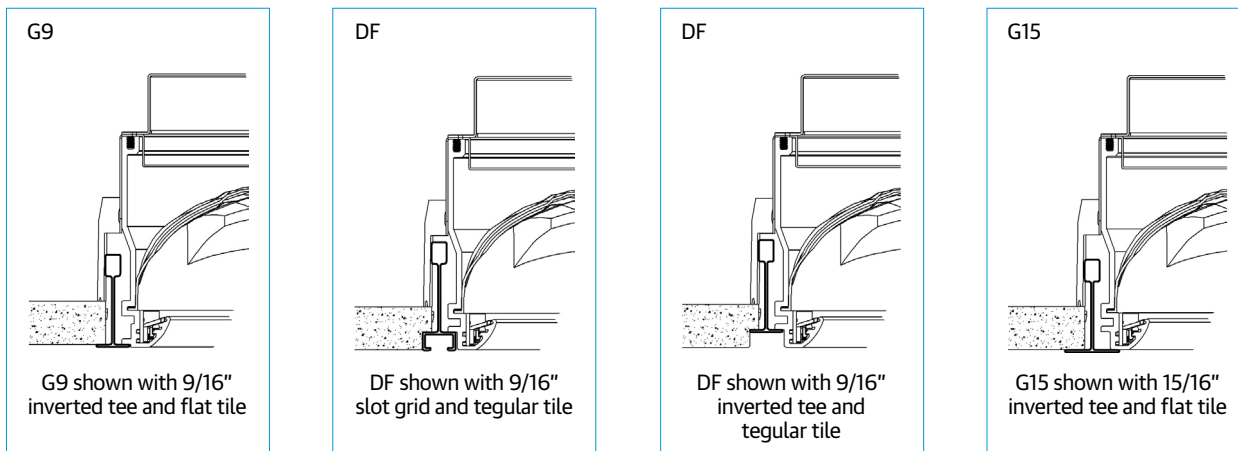| G9 | DF | DF | G15 |
|----|----|----|-----|
| G9 shown with 9/16" inverted tee and flat tile | DF shown with 9/16" slot grid and tegular tile | DF shown with 9/16" inverted tee and tegular tile | G15 shown with 15/16" inverted tee and flat tile |

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit www.acuitybrands.com/aplus.

## Suggested Wall Pods (order separately)



nPODM 2P DX CCT          nPODM 4S DX          nPODM 4S

## Typical nLight network Layout



**WIRING KEY**

CAT-5e Cable          Line Power

nPS 80          nPODM 2P DX CCT          nCM          Chisel

40mA
40mA          ~5mA          ~3mA          ~3mA
                                          ~6mA w/ Sensor

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