

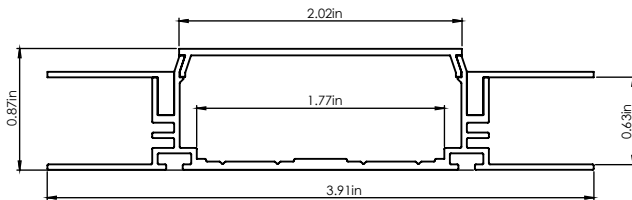
# ZENLITE® NC2-2G

Recessed LED Lighting System for New Construction - 5/8" Drywall Walls/Ceilings

## DESCRIPTION

ZENLITE® NC2-2G is an LED Lighting System for 5/8" Drywall Walls/Ceilings. Our patent-pending design allows for projection of a clean horizontal, vertical and diagonal lines of light. Channel is installed directly to studs with 16-inch spacing screw holes. The channel has the ability to connect seamlessly with our ZENLITE® NC2 Pendant Mount and Surface Mounted fixtures; allowing for a variety of configurations. To achieve a certain light output, choose between the different available light modules and color temperatures. Light modules are also dimmable when using a dimmable driver. ZENLITE® NC2 is a recessed lighting fixture that can create a seamless line of light and has the ability to achieve various patterns/shapes.

## DIMENSIONS



Project Name: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Notes: \_\_\_\_\_



## ORDERING CODE

Product	Length	Light Module [Watts/ft]	Volt	CRI	Color Temp.	Lens
ZNLT-NC2-2G			24V	95C		
<b>ZNLT-NC2-2G</b>	<b>XX</b> Length in inches only. Lengths can be specified down to 0.25 inch. Minimum channel length is <b>6 inches</b> .  For custom cuts see page 6.	<b>2ZGBL</b> (2 Zigbeam Low) [4] <b>2ZGBM</b> (2 Zigbeam) [8.8] <b>2HRGB</b> (2 Red/Green/Blue) *[8.8] <b>2RGBW</b> (2 Red/Green/Blue/White) *[11.78]  *Only comes in 30K and 40K.	<b>24V- 24V</b>	<b>95C ≥ 95 CRI</b>	<b>27K</b> 2700K <b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>CLNS-2G</b> Clear <b>DLNS-2G</b> Diffused <b>OLNS-2G</b> Opal

Driver	Housing	Feed Options (Beginning)	Feed Options (End)
<b>MG</b> (1% Magnetic Dimming) <b>ZO</b> (1% 0-10V Dimming) <b>NN</b> Non Dimming <b>L2</b> Lutron Hi-lume Forward Phase 120V 1% 2-wire (40W max.) <b>L3</b> Lutron Hi-lume 1% 3-wire/EcoSystem <b>LP</b> Lutron Hi-lume Premier 0.1% FadeToBlack EcoSystem/3-wire	Standard (default) <b>CP</b> Chicago Plenum	<b>BGNM</b> Beginning Module <b>ENDM</b> End Module <b>SDBX</b> Side BX Connector <b>RRBX</b> Rear BX Connector <b>ENCP</b> End Cap	<b>BGNM</b> Beginning Module <b>ENDM</b> End Module <b>SDBX</b> Side BX Connector <b>RRBX</b> Rear BX Connector <b>ENCP</b> End Cap

Example: ZNLT-NC2-2G-14-2ZGBM-24V-95C-27K-DLNS-2G-MG

## LUMEN OUTPUT PERFORMANCE

Light Module	Lumens/ft
<b>2ZGBL</b>	270
<b>2ZGBM</b>	544.6

Color Temp	27K	30K	35K	40K
Multiplier	0.82	1	1.13	1.22

Lens	CLNS	DLNS	OLNS
Multiplier	1.13	1	0.74

# ZENLITE® NC2-2G

Recessed LED Lighting System for New Construction - 5/8" Drywall Walls/Ceilings

## ■ PRODUCTION OPTIONS (Optional for Lighting designers)

### OPTION A

Ship channels and flanges in 8ft lengths (Default for lengths greater than 8 ft)

Note: It will exclude any non-45 degree angles required, which must be cut by PreciseLED factory.

### OPTION B

Precut channels and flanges to desired lengths (Default for lengths less than 8ft)

Note: Exact field measurements must be provided, factory does not take responsibility for field measurement errors. Prepunched holes (every 16") in rear of fixture may not match stud location, additional drilling may be required.

### OPTION C

Ship fixture preloaded with LED module

Note: This option is only available for lengths ≤ 8 ft. Exact field measurements must be provided, factory does not take responsibility for field measurement errors. Prepunched holes (every 16") in rear of fixture may not match stud location, additional drilling may be required.

Note: **Approved shop drawings needed for custom configurations.**

Aluminum Channels and PVC L-Beads come in a maximum available length of 8 feet. Seamless Lens can be shipped in roll lengths up to 40 feet. For fixture longer than 8ft, multiple 8ft channels need to be joined together by means of straight channel connectors

## ■ SPECIFICATIONS

### LED SYSTEM

The LED system consists of five different light modules to choose from; ZGBL, ZGBM, and ZGBC are the world's first miter-able tape light and dimmable using a dimmable driver. They display a clean line of light at the surface of the lens. HRGB and HRGBW have the ability to output any color on the color wheel with HRBGW having the advantage of being able to also display white light. The light modules are available in four different color temperatures of 2700K, 3000K, 3500K, and 4000K; except for HRGBW which is only available in 3000K and 4000K. They have a minimum 95CRI (color rendering index) and have gone through a 3-step binning process.

### OPTICS

For this fixture, polycarbonate lens are available in a clear, diffused, or opal finish. The lens are field changeable and are able to run continuously up to 40ft.

### ELECTRICAL

There are six available drivers to choose from. All LED drivers are mounted remotely and have 120-277VAC input.

**MG driver** is a forward phase, 1% magnetic low voltage (dims down to 1%) dimming and flicker free.

**ZO driver** consists of 1% 0-10V dimming, flicker free, and is IP65 rated for both indoor and outdoor use.

**NN driver** is a non dimming, flicker free driver that is IP65 rated for both indoor and outdoor use.

**L2 driver** is a 2-Wire driver from Lutron that has Hi-lume 1% and provides continuous and flicker free dimming from 100%-1%.

**L3 driver** is a 3-Wire driver from Lutron that has Hi-lume 1% EcoSystem and provides continuous and flicker free dimming from 100%-1%

**LP driver** is a 3-Wire driver from Lutron that has Hi-lume Premier 0.1% FadeToBlack EcoSystem and provides continuous and flicker free dimming down to 0.1% when paired with certain Lutron controllers.

- FEED: 18" of wire provided with connection to a longer wire inside the beginning module.
- EMERGENCY (Optional): Remote emergency battery pack provides backup power for 90 minutes. Remote emergency test switch included.

### MOUNTING

Proprietary design allows the fixture to be mounted directly onto studs first and accommodates 5/8" drywalls or ceilings. Contains prepunched holes spaced 16" apart with the option for additional holes to be drilled into the rear flange for versatility.

### CONSTRUCTION

- DIMENSIONS: 3.91"W x .87" H
- HOUSING: Anodized aluminum extrusion cut with high precision equipment with up to 98% reflectivity on the inside. PVC flange with low thermal conductivity to prevent heat from spreading to the surface of the paint/spackle.

### LISTING/WARRANTY

- APPROVALS: UL/C-UL listed for dry and damp locations. IC rated.
- WARRANTY: 5 year limited warranty, ambient temperatures at fixture location should not exceed 40°C during normal operation.
- IP Protection: IP20
- CRI ≥ 95
- 50,000 hours lamp life
- US & International Patents



# ZENLITE® NC2-2G

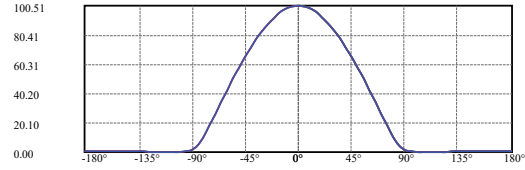
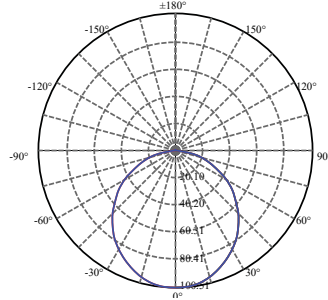
Recessed LED Lighting System for New Construction - 5/8" Drywall Walls/Ceilings

## PHOTOMETRICS

Photometrics for certain fixture options. Results vary with different combination of lens, light module, etc.

### Light Module: 2ZGBL

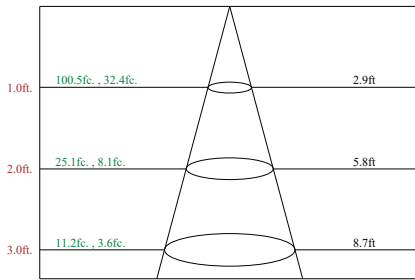
Color Temperature: 4000K  
Lumen Output: 282.93 lm/ft  
Lens: DLNS



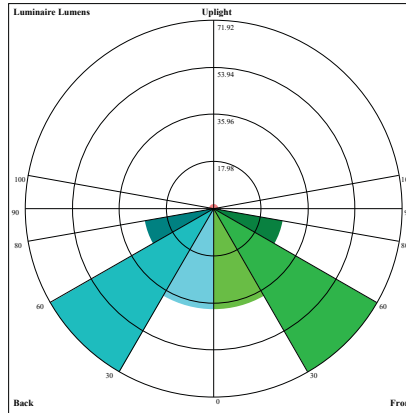
C0(Max): 100.51  
C0/C180: 25.1  
C90/C270: 11.2

Field angle (10%Imax):  
C0/180 Left: 80.6 Right: 80.6  
C90/270 Left: 80.6 Right: 80.6

Beam Angle(50%Imax):  
C0/180 Left: 55.2 Right: 55.2  
C90/270 Left: 55.2 Right: 55.2



Max, Ave  
Beam Angle of C0 Plane: 110.62

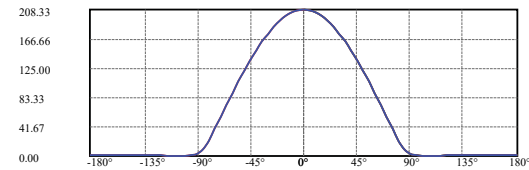
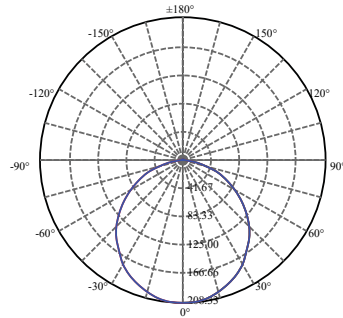


Luminaire Lumens:  
FL=38.62, FM=71.92, FH=26.83,  
FVH=2.91, BL=38.62, BM=71.92,  
BH=26.83, BVH=2.91, UL=0.64, UH=1.8

BUG Rating: B0-U1-G0

### Light Module: 2ZGBM

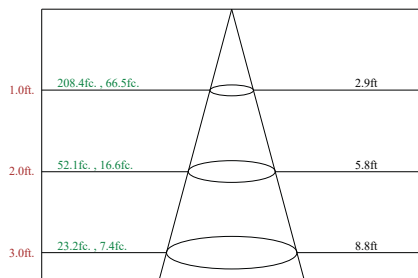
Color Temperature: 4000K  
Lumen Output: 591.11 lm/ft  
Lens: DLNS



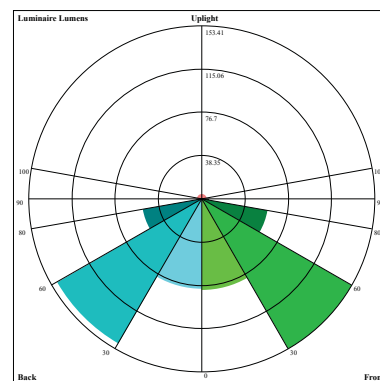
C0(Max): 208.4  
C0/C180: 52.1  
C90/C270: 23.2

Field angle (10%Imax):  
C0/180 Left: 80.5 Right: 80.5  
C90/270 Left: 80.5 Right: 80.5

Beam Angle(50%Imax):  
C0/180 Left: 55.5 Right: 55.5  
C90/270 Left: 55.5 Right: 55.5



Max, Ave  
Beam Angle of C0 Plane: 111.20



Luminaire Lumens:  
FL=80.99, FM=153.41, FH=59.19,  
FVH=6.88, BL=80.08, BM=148.39,  
BH=53.52, BVH=4.88, UL=1.29, UH=4.6

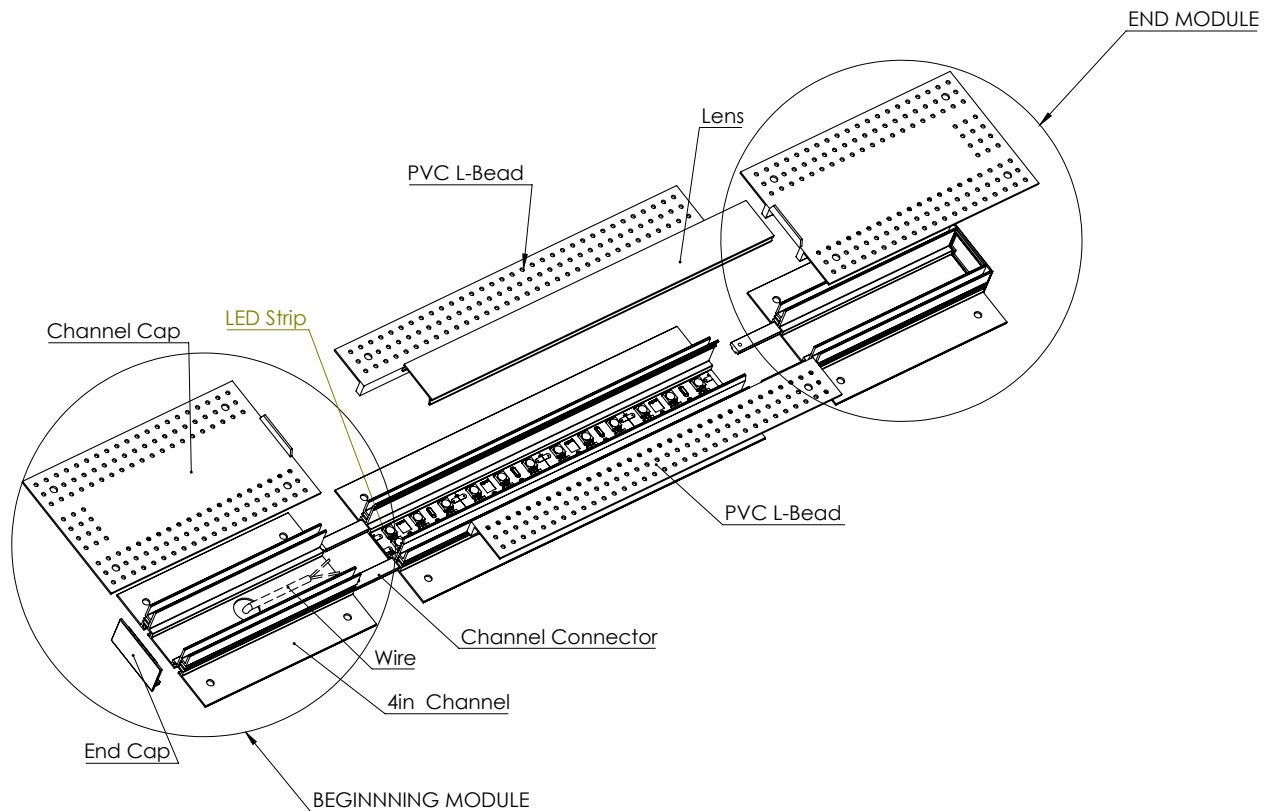
BUG Rating: B0-U1-G0

Contact PreciseLED for additional Photometrics or visit our website.

# ZENLITE® NC2-2G

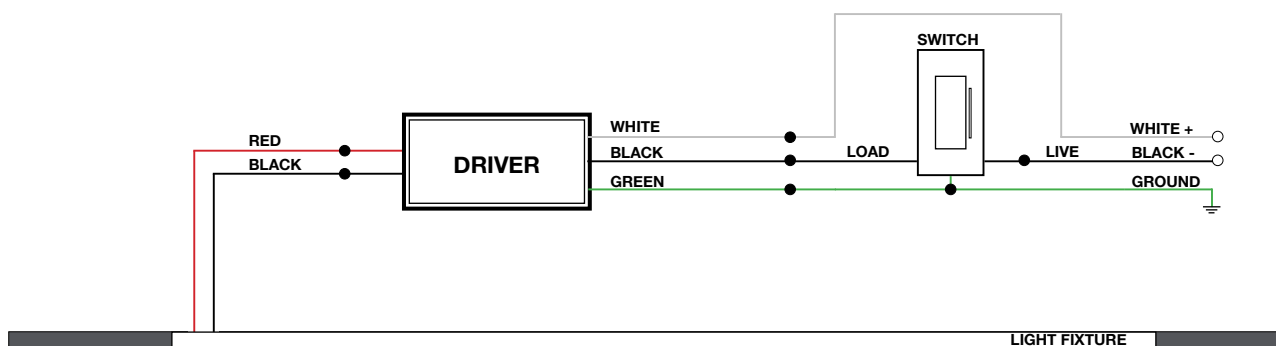
Recessed LED Lighting System for New Construction - 5/8" Drywall Walls/Ceilings

## ■ FIXTURE COMPONENTS



## ■ WIRING DIAGRAM

Wiring diagram for a typical installation of the light fixture with a compatible driver and switch.

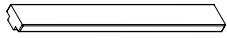


# ZENLITE® NC2-2G

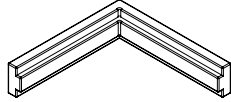
Recessed LED Lighting System for New Construction - 5/8" Drywall Walls/Ceilings

## ■ ADDITIONAL COMPONENTS

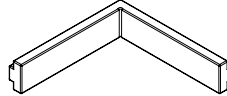
These are the certain standard components that comes along with the ZENLITE® Lighting system for 5/8" drywall lighting system.



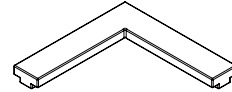
**T-shape Connector - Straight**  
Length: 2 inches  
Purpose: To connect to straight ZENLITE® Channels  
Part #: ZNLT-CNCT-STRT



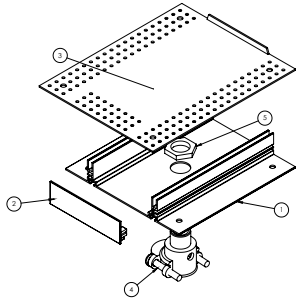
**T-shape Connector - OC**  
Length: 1 x 1 inches  
Purpose: To connect to straight ZENLITE® Channels at outside wall corners at 90 deg  
Part #: ZNLT-CNCT-OS90



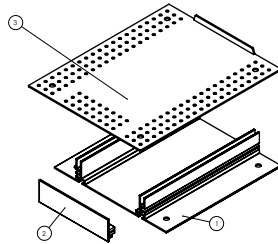
**T-shape Connector - IC**  
Length: 1 x 1 inches  
Purpose: To connect to straight ZENLITE® Channels at inside wall corners at 90 deg  
Part #: ZNLT-CNCT-IN90



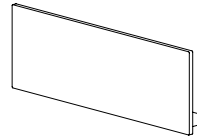
**T-Shape Connector - ZIGZAG**  
Length: 1 x 1 inches  
Purpose: To connect to straight ZENLITE® Channels trimmed at 45 Degrees to form a 90 Degree bend  
Part #: ZNLT-CNCT-ZG90



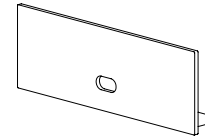
**Beginning Module**  
Length: 5 inches  
Purpose: To be attached at the beginning of ZENLITE® channel by means of two T-shape connectors  
Sub-Components:  
1. 4 in Channel  
2. End Cap  
3. Channel Cover  
4. BX Cable Connector  
5. BX Connector Nut  
Part #: ZNLT-BGNM-NC2



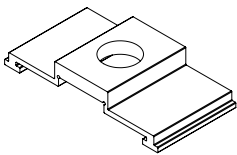
**End Module**  
Length: 5 inches  
Purpose: To be attached at the beginning of ZENLITE® channel by means of two T-shape connectors  
Sub-Components:  
1. 4 in Channel  
2. End Cap  
3. Channel Cover  
Part #: ZNLT-ENDM-NC2



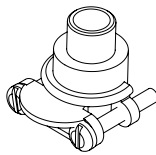
**End Cap**  
Length: 2 inches  
Purpose: To be attached at the either end of ZENLITE® channel  
Part #: ZNLT-EDCP



**End Cap with Hole**  
Length: 2 inches  
Purpose: To be attached at either end of ZENLITE® channel with a hole for lead wire.  
Part #: ZNLT-EDCP



**BX Module**  
Length: 2 inches  
Purpose: To be attached at any location of the ZENLITE® channel where BX connector is needed  
Part #: ZNLT-NC2-BXM



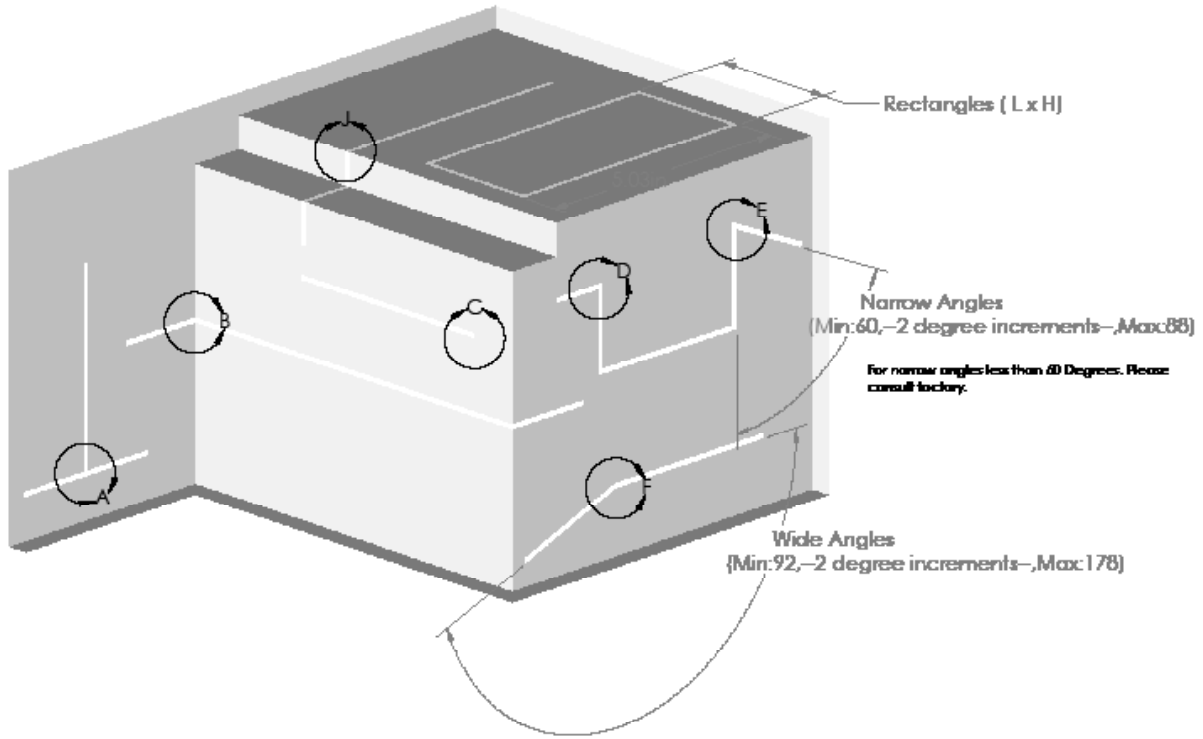
**BX Connector**  
Length: 2 inches  
Purpose: To be attached at any location of the ZENLITE® channel for lead wire.  
Part #: ZNLT-BX

# ZENLITE® NC2-2G

Recessed LED Lighting System for New Construction - 5/8" Drywall Walls/Ceilings

## CUSTOM CUT ORDERS

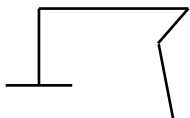
See diagram below for more information on ordering custom cuts and fill out the ordering table for specific dimensions/configurations.



TYPE	DIMENSIONS	QTY
	OR x	
	OR x	
	OR x	
	OR x	
	OR x	

Note: List the cuts/features in the order of occurrence from left to right. Multiple spec-sheets can be used for multiple custom lengths/shapes. Please consult factory for complex projects

### EXAMPLES



TJ-20-RL-30-NL45-15-WL135-20



0-15 X 30 FT