

# ACL5

ACL5 is a recessed luminaire tailored for LED lighting technology and fully capable of achieving pattern design due to its minimal housing shape, use of patented HE Tech™ lens, and excellent distribution.

nLIGHT

WET

DAMP

HE

BAA

Build America

5Y

UL

IK

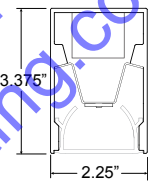
ControlsLocationLocationTech lensBuy AmericanBAAWarrantyCertifiedIK Rated

Performance

| OUTPUT          | DISTRIBUTION | DIRECT DELIVERED LUMEN OUTPUT | INPUT WATT  | EFFICACY  |
|-----------------|--------------|-------------------------------|-------------|-----------|
| LVH (Very high) | HE Tech™     | 1229 lm/ft                    | 13.5 W / ft | 91 lm / W |

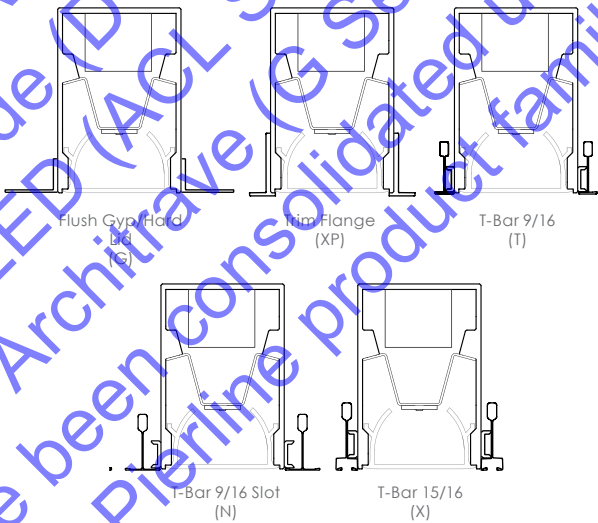
For the complete photometric data of this fixture refer to page 3 and 4.

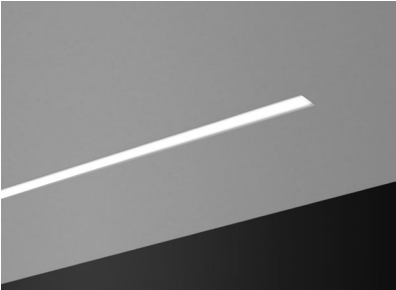
Dimensions



HE Tech™ (HE)

Mounting options





Need help?  
Don't see what you need?  
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

Our Design Assist team  
([designassist@alights.com](mailto:designassist@alights.com))  
is here to make the process move smoothly.

Fast track nomenclature only. For complete nomenclature see "standard" specs sheet.

| ACL5   |                             |                       |                                                                     |                |                                              |
|--------|-----------------------------|-----------------------|---------------------------------------------------------------------|----------------|----------------------------------------------|
| SERIES | LENGTH                      | OUTPUT                | CCT                                                                 | CRI            | VOLTAGE                                      |
| ACL5   | Nominal Length <sup>1</sup> | LS<br>LH<br>LVH<br>C_ | Standard Output<br>High Output<br>Very high output<br>Custom Output | 30<br>35<br>40 | Direct 3000k<br>Direct 3500k<br>Direct 4000k |
|        |                             |                       |                                                                     | 80+ CRI        | 120-277V                                     |

<sup>1</sup>Specify in feet to the nearest foot (i.e. 12)

| DIRECT OPTICS | MOUNTING                                                                                                                                                         | FINISH                           | DIMMING                                                                             | OPTIONS                                          |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------|
| HE HE Tech    | G Flush Gyp / Mud Over Flange <sup>1</sup><br>XP 1/2" Trim Flange <sup>2</sup><br>T T-Bar 9/16"<br>X T-Bar 15/16" <sup>1</sup><br>N T-Bar 9/16 Slot <sup>1</sup> | W White<br>B Black<br>T Titanium | D Standard 0-10V dimming <sup>1</sup><br>NAIR nLight @AIR (dim-to-off) <sup>2</sup> | Q Wet location <sup>1</sup><br>CP Chicago Plenum |

<sup>1</sup>No finish required  
<sup>2</sup>Finish required

<sup>1</sup>1% dimming standard unless otherwise specified.  
<sup>2</sup>nLight AIR components completely integrated into fixture.

<sup>1</sup>Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information.

| OTHER                      |
|----------------------------|
| FT Fast Track <sup>1</sup> |

<sup>1</sup>Option must be in part number in order to be considered fast track.

Light distribution

OUTPUT (DC)

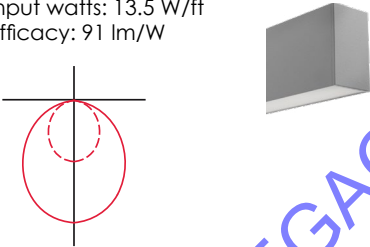
LVH: Very high output - 13.5 W/ft  
LH: High output - 10 W/ft  
LS: Standard output - 5 W/ft  
C: Custom tuned output - Contact Design Assist

Photometric data

HE TECH™

LVH- 4FT- 3500K

Lumens: 1229 lm/ft  
Input watts: 13.5 W/ft  
Efficacy: 91 lm/W

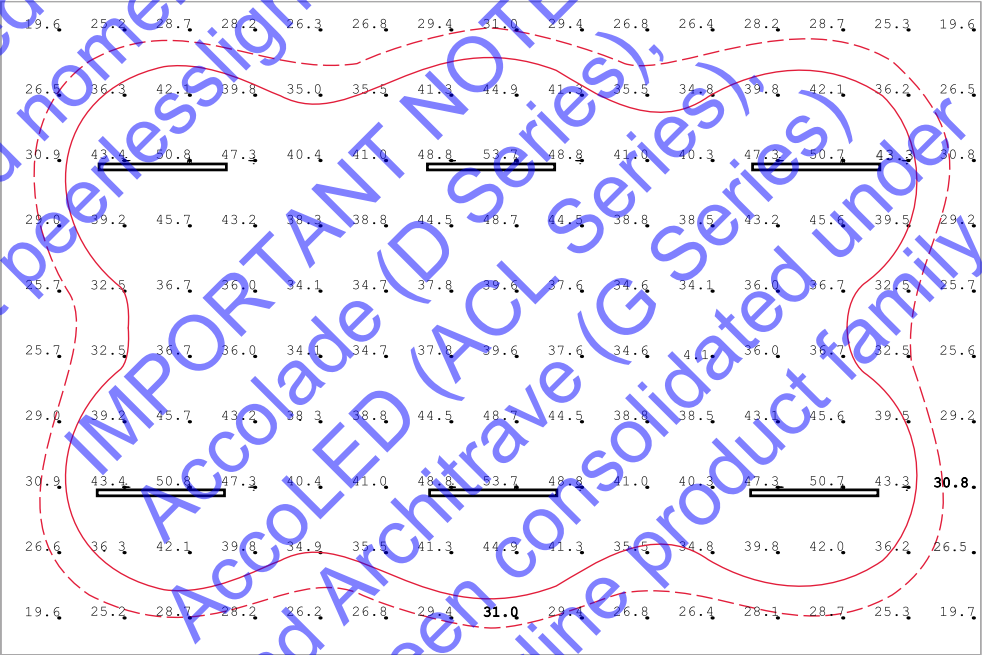


Sample installation - Workspace

LH DOWN - 3500K

Room dimensions: 30'L x 20'W x 12'H  
Reflectance: 80% / 50% / 20%  
Mounting height: 9 ft A.F.F.  
Fixture length: 4 ft  
Calculation grid: 2 ft x 2 ft  
Calculation plane (horizontal): 2.5 ft A.F.F.  
Average Illuminance: 36 fc  
Fixture spacing: 10 ft x 10 ft  
Uniformity: 1.9:1 (avg/min)

TOP VIEW  
30 fc: ———  
25 fc: - - - - -

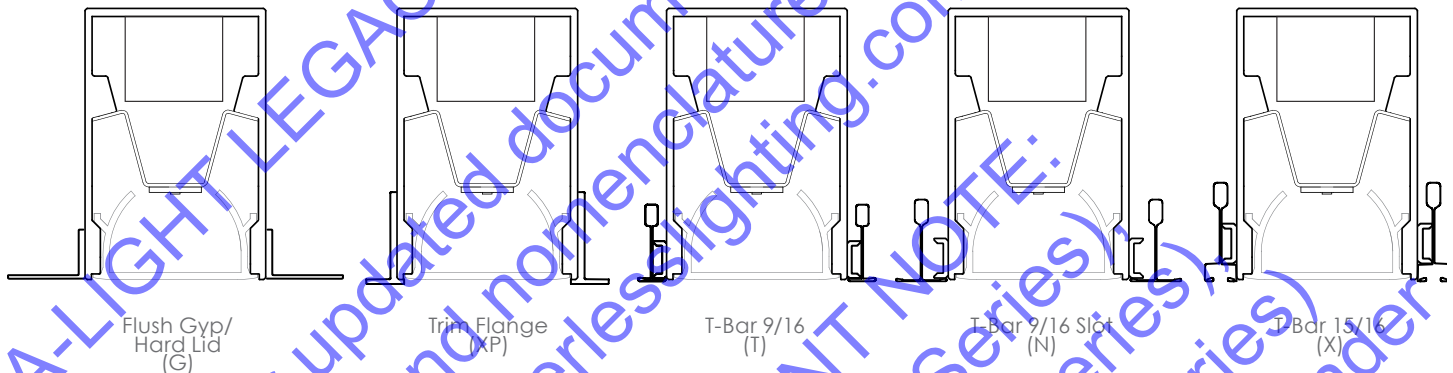


## Light loss factors (LLF)

| OUTPUT             | CCT   | LLF RATIO |        | DIRECT EFFICACY |         |
|--------------------|-------|-----------|--------|-----------------|---------|
|                    |       |           |        | HE TECH         |         |
|                    |       | CRI 80    | CRI 90 | CRI 80          | CRI 90  |
| LVH<br>(very high) | 4000K | 1.02      | 0.84   | 93 lm/W         | 76 lm/W |
|                    | 3500K | 1         | 0.83   | 91 lm/W         | 76 lm/W |
|                    | 3000K | 0.97      | 0.81   | 88 lm/W         | 74 lm/W |
|                    | 2700K | 0.94      | 0.79   | 86 lm/W         | 72 lm/W |
| LH<br>(high)       | 4000K | 1.02      | 0.84   | 98 lm/W         | 81 lm/W |
|                    | 3500K | 1         | 0.83   | 96 lm/W         | 80 lm/W |
|                    | 3000K | 0.97      | 0.81   | 93 lm/W         | 78 lm/W |
|                    | 2700K | 0.94      | 0.79   | 90 lm/W         | 76 lm/W |
| LS<br>(standard)   | 4000K | 1.02      | 0.84   | 106 lm/W        | 87 lm/W |
|                    | 3500K | 1         | 0.83   | 104 lm/W        | 86 lm/W |
|                    | 3000K | 0.97      | 0.81   | 101 lm/W        | 84 lm/W |
|                    | 2700K | 0.94      | 0.79   | 98 lm/W         | 82 lm/W |

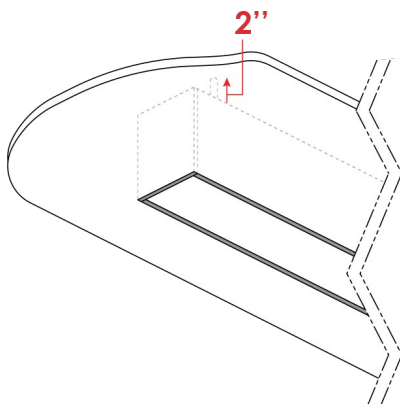
| OUTPUT             | CCT   | LLF RATIO |        | DIRECT LUMEN OUTPUT |          |
|--------------------|-------|-----------|--------|---------------------|----------|
|                    |       |           |        | HE TECH             |          |
|                    |       | CRI 80    | CRI 90 | CRI 80              | CRI 90   |
| LVH<br>(very high) | 4000K | 1.02      | 0.84   | 93 lm/ft            | 76 lm/ft |
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## Mounting options



## NLight® dimensions

AIR : rIO Recessed



\*Module for nLight AIR only.

## LINEAR DIMENSIONS

Nominal lengths available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 foot.

## OPTICS

The high-efficiency extruded diffuse acrylic lens technology, patented HE Tech™, features an integrated opaque white reflector. It delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

## LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, High and Very High outputs. Refer to photometry for delivered lumens.

## LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -20°C to 50°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

## nLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR less sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

## CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

## MOUNTING

Common recessed mounting options available. Contact factory for applications regarding modified recessed mounting conditions.

Flush Gypsum Flange: Raw aluminum flange is attached to blocking (by others), then mudded over and/or painted by installing contractor to provide a "flangeless" fixture appearance in recessed ceiling/wall applications.

Trim Flange: 1/2" wide visible powder coated flange, specify finish requirement. Fixture is mounted to structure using threaded rod (by others) or ceiling tie wires. Use of a-clamp™ secures fixture trim and housing around ceiling/wall material. Use for any gypsum or hard ceiling/wall that requires a minimal flange covering the ceiling cut-out edge.

T-Bar/Grid Ceiling: 9/16" or 15/16" standard T-Bar or 9/16" slot ceiling. Raw aluminum flange sits on T-Bar and is concealed from view.

## FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

## LISTING

IC Rated for IC, Airtight, CCEA Ceilings. CCEA mark applied for Chicago Plenum applications. UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

UL Wet location label available. Complies with UL definition of wet locations to prevent accumulation of water on live parts, electrical components, or conductor not identified for use in contact with water through the provision of weep holes or through the lens. Waterproof connectors to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

The ACL5 is assembled in America and complies with the Buy America(n) Act (BAA), Build America, Buy America (BABA) government procurement requirements under FAR, DFARS, and DOT.

## WARRANTY

Please refer to the full terms and conditions on our website: [www.alights.com/downloads/warranty/](http://www.alights.com/downloads/warranty/)