

ORDERING CODE

**ACL5**  
**U**  
**FT**

PROJECT INFO  
TYPE

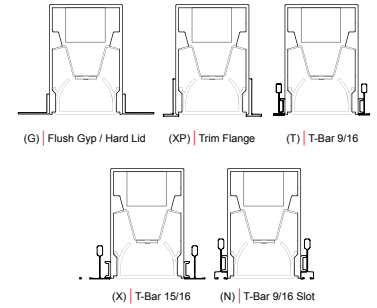
DATE  
QUANTITY

PERFORMANCE AT 3500K

OUTPUT	OPTICS	NOMINAL		
		LUMEN OUPUT	INPUT WATTS	EFFICACY
LH <small>(high)</small>	HE Tech™	1075 lm/ft	9.8 W/ft	109 lm/W
	1" Drop Lens	843 lm/ft	9.8 W/ft	86 lm/W
LS <small>(standard)</small>	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	443 lm/ft	4.9 W/ft	90 lm/W

Custom tuned output available from 25% to 125% of high output. Please consult factory for custom lumen output and wattage. \*Flat Blade Louver calculated using the aluminum finish.

MOUNTING OPTIONS



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

ACL5	LENGTH OR PATTERN TYPE	OUTPUT	LED CCT	LED CRI	U	DIRECT OPTICS
ACL5	<u>M</u> Nominal Length* <u>M</u> Exact Length**	<b>LS</b> Standard Output <b>LH</b> High Output <b>C</b> Custom Output*	<b>27</b> 2700K <b>30</b> 3000K <b>35</b> 3500K <b>40</b> 4000K	<u>CRI</u> 80+ CRI 90+ CRI	<b>U</b> 120V - 277V	<b>HE</b> HE Tech™ <b>DL</b> 1" Drop Lens*
*Specify in feet to the nearest foot (i.e. 12) **Specify in inches to then nearest 1/8 (i.e. M180.125)		*Available from 25% to 125% of LED High Output		* Not available in Wet Location. Finish required on all mounting types with Drop Lens.		

MOUNTING		FINISH*	DIMMING	OPTIONS	FT
<b>G</b> Flush Gyp / Mud Over Flange <b>RG</b> 1" Regressed Gyp / Mud Over Flange <b>XP</b> 1/2" Trim Flange <b>T</b> T-Bar 9/16" <b>X</b> T-Bar 15/16" <b>N</b> T-Bar 9/16 Slot	<b>T</b> Titanium <b>W</b> White <b>B</b> Black	<b>D</b> Standard 0-10V dimming* <b>NAIR</b> nLight @AIR (dim-to-off)**	<b>Q</b> Wet Location* <b>CP</b> Chicago Plenum	<b>FT</b> Fast Track*	
*Only on RG and XP mounting types and with Drop Lens. Slim endcap covering the ends of the drop lens will be visible and will need to be painted. **Specify RAL#		* 1% Dimming standard unless otherwise specified. **nLight AIR components completely integrated into fixture.	*Client must specify power feed location. 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. Not compatible with Drop Lens optic.	*Option must be in part number in order to be considered fast track.	

**LIGHT DISTRIBUTION**

DISTRIBUTION

Direct Symmetric

OUTPUT

LH: High output - 9.8 W/ft  
 LS: Standard output - 4.9 W/ft  
 C: Custom tuned output - Contact Design Assist

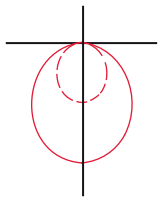
**PHOTOMETRIC DATA**

DIRECT SYMMETRIC

LH - 4FT - 3500K - HE TECH

Lumens: 1075 lm/ft  
 Input watts: 9.8 W/ft  
 Efficacy: 109 lm/W

LH:   
 LS: 

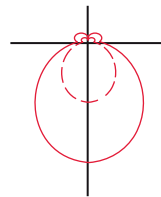


DIRECT SYMMETRIC

LH - 4FT - 3500K - DROP LENS

Lumens: 843 lm/ft  
 Input watts: 9.8 W/ft  
 Efficacy: 86 lm/W

LH:   
 LS: 

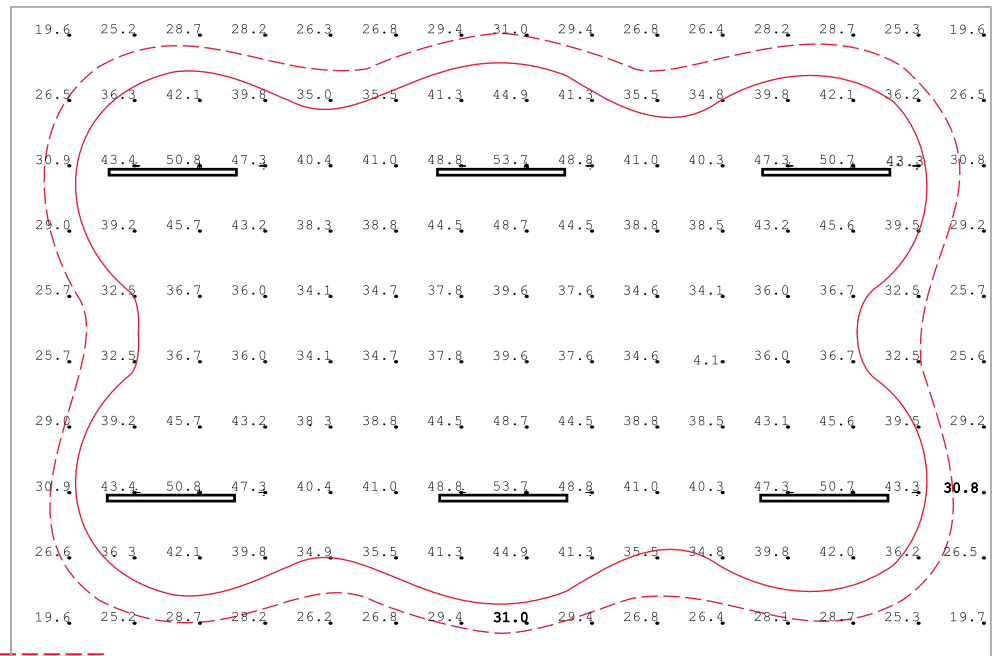


**SAMPLE INSTALLATION - WORKSPACE**

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: 



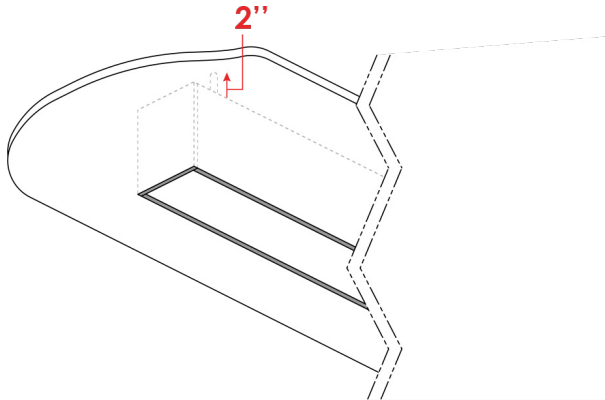
LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+			CRI 90+		
		%	OPTICS		%	OPTICS	
			HE Tech™	Drop Lens		HE Tech™	Drop Lens
LH (high)	4000k	102.1%	1098 lm/ft	861 lm/ft	90.2%	970 lm/ft	760 lm/ft
	3500k	100.0%	1075 lm/ft	843 lm/ft	87.3%	938 lm/ft	735 lm/ft
	3000k	96.2%	1034 lm/ft	811 lm/ft	82.4%	886 lm/ft	695 lm/ft
	2700k	92.6%	995 lm/ft	780 lm/ft	78.1%	840 lm/ft	659 lm/ft
LS (standard)	4000k	54.3%	584 lm/ft	453 lm/ft	48.0%	516 lm/ft	400 lm/ft
	3500k	53.2%	572 lm/ft	443 lm/ft	46.4%	499 lm/ft	387 lm/ft
	3000k	51.2%	550 lm/ft	427 lm/ft	43.8%	471 lm/ft	366 lm/ft
	2700k	49.2%	529 lm/ft	410 lm/ft	41.6%	447 lm/ft	347 lm/ft

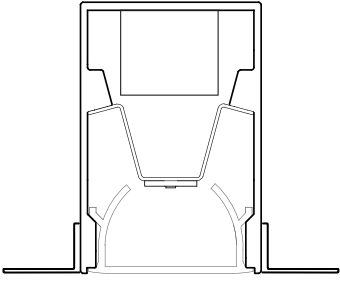
For standard output (LS) -50%.

ACL5 | NLIGHT

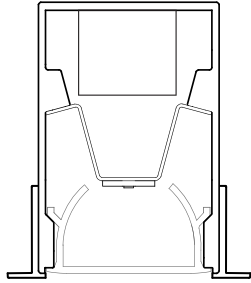
AIR : rIO Recessed



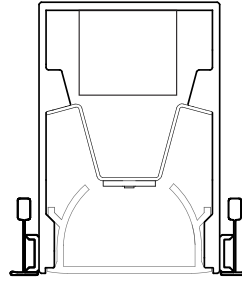
\*Fixture mounted sensors and filler panel for nLight AIR only.



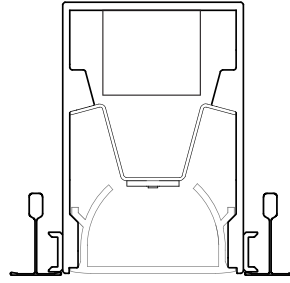
(G) | Flush Gyp/Hard Lid



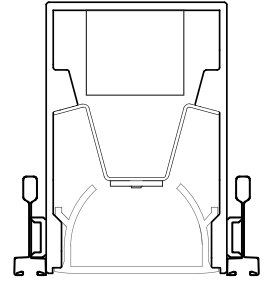
(XP) | Trim Flange



(T) | T-bar 9/16"



(X) | T-bar 15/16"



(N) | T-bar 9/16" Slot

## LINEAR DIMENSIONS

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths.

## OPTICS

He Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Drop Lens is a light diffuser option for ACL5 that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern.

## 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. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; and 90+ CRI available. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Low, Standard, and High outputs. Refer to photometry for delivered lumens. Custom output available in the range 25% to 125% of high output, contact factory.

## 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.

## CONTROLS

Integrated nLight® for system networking wireless:

### NLIGHT® AIR WIRELESS

The nIO model IS available for integration.

## 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 (provided). 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.

## STRUCTURE

Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 4 lbs/ft approximate fixture weight.

## FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black.

## 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.

## WARRANTY

Please refer to the full terms and conditions on our website: <https://www.alights.com/downloads/warranty/>