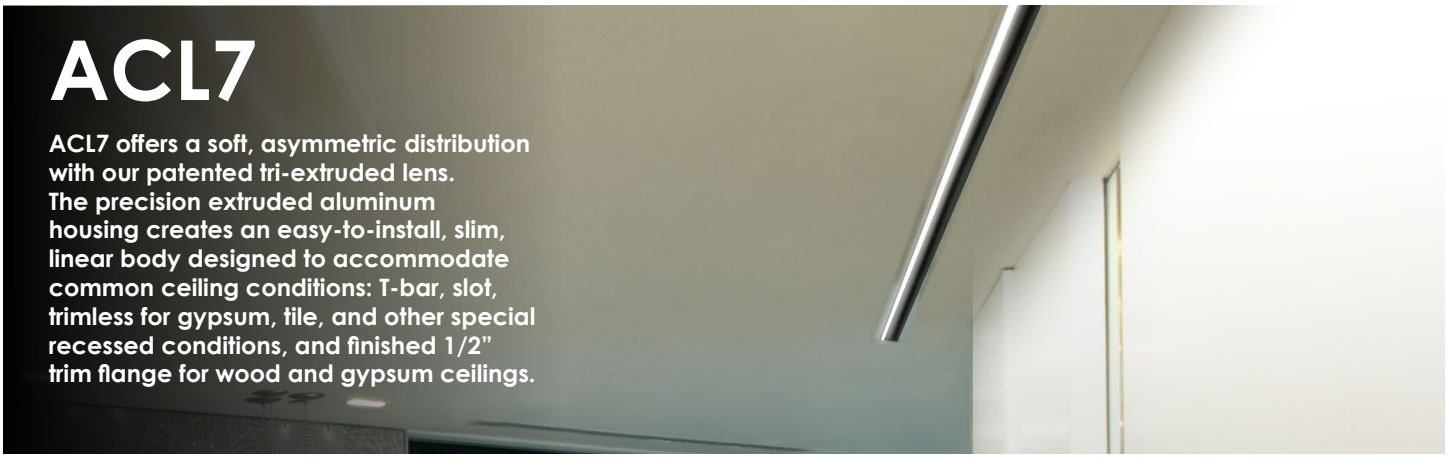
ACL7



ACL7 offers a soft, asymmetric distribution with our patented tri-extruded lens. The precision extruded aluminum housing creates an easy-to-install, slim, linear body designed to accommodate common ceiling conditions: T-bar, slot, trimless for gypsum, tile, and other special recessed conditions, and finished 1/2" trim flange for wood and gypsum ceilings.

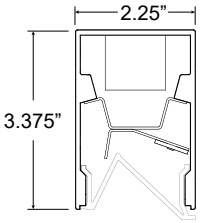
Certified · Warranty · Location · Controls · Sensors · Buy American · Dim. to warm · White tuning

Performance

OUTPUT	OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	Asymmetric optic	806 lm/ft	13 W/ft	63 lm/W

For the complete photometric data of this fixture refer to page 2.

Dimensions

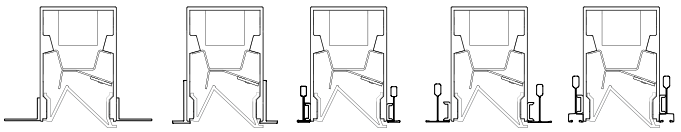




Need help?
Don't see what you need?
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

Our Design Assist team (**designassist@alights.com**) is here to make the process move smoothly.

Mounting options



Flush Gyp/Hard Lid (G) · Trim Flange (XP) · T-Bar 9/16 (T) · T-Bar 15/16 (X) · T-Bar 9/16 (Slot) (N)

ACL7				
SERIES	**LENGTH**	**OUTPUT**	**LED CCT**	**CRI**
ACL7	**_** Nominal Length[1] **M_** Exact Length[2]	**LS** Standard Output **LH** High Output **LVH** Very high Output **C_** Custom Output	**27** 2700k **30** 3000k **35** 3500k **40** 4000k **DW** Dim-to-warm[1] **TW** Tunable White[1]	**_** 80+ CRI **CRI** 90+ CRI
	[1] Specify in feet to the nearest foot (i.e. 12) [2] Specify in 6" increments (i.e. M198.00)	[1] Contact Design Assist for custom tuning or non-standard light outputs.	[1] Standard CCT range is 27-50K. Contact Design Assist for custom range.	

VOLTAGE	DIRECT ASYMMETRIC OPTICS	MOUNTING	FINISH	DIMMING	OPTIONS
U 120V - 277V	**TF** Tri-Formed Self-Shielding Lens	**G** Flush Gyp / Mud Over Flange **XP** 1/2" Trim Flange **T** T-Bar 9/16" **X** T-Bar 15/16" **N** T-Bar 9/16 Slot	**W** White **B** Black **T** Titanium	**D** Standard 0-10V dimming[1] [1] 1% Dimming standard unless otherwise specified.	**Q** Wet Location[1] **CP** Chicago Plenum [1] Wet location suitable in full coverage. Not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information.

Project name _____ Type _____ Date _____ Quantities _____

Light distribution

DISTRIBUTION

Direct Asymmetric

OUTPUT (DC)

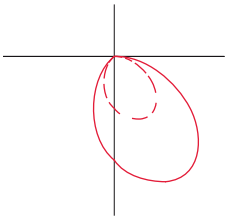
LVH: Very high output - 13 W/ft
LH: High output - 10 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Specify Wattage

Photometric data

HE TECH™
LVH- 4FT- 3500K

Lumens: 806 lm/ft
Input watts: 13 W/ft
Efficacy: 62 lm/W

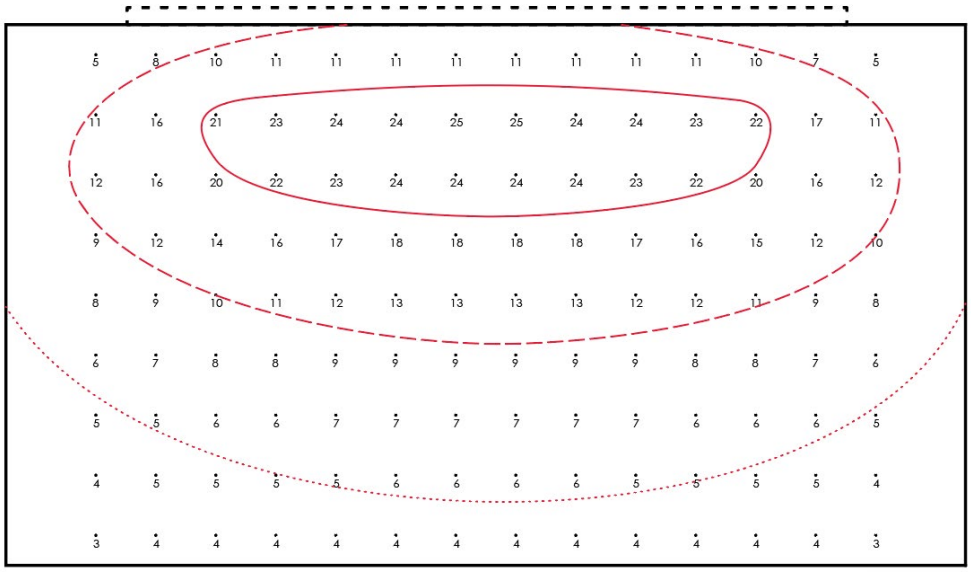
LH:
LS:



Sample installation - Workspace

LH DOWN - 4000K

Wall height: 9 ft
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Distance from wall: 2.5 ft
Fixture length: 12 ft
Calculation grid: 1 ft x 1 ft
Calculation plane (vertical): On wall
Average Illuminance (Ev): 11 fc
Uniformity: 8.3:1 (max/min)



TOP VIEW
20 fc:
10 fc:
5 fc:

Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY TRI-FORMED LENS	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	63 lm/W	52 lm/W
	3500K	1	0.83	62 lm/W	51 lm/W
	3000K	0.97	0.81	60 lm/W	50 lm/W
	2700K	0.94	0.79	58 lm/W	49 lm/W
LH (high)	4000K	1.02	0.84	63 lm/W	52 lm/W
	3500K	1	0.83	62 lm/W	51 lm/W
	3000K	0.97	0.81	60 lm/W	50 lm/W
	2700K	0.94	0.79	58 lm/W	49 lm/W
LS (standard)	4000K	1.02	0.84	67 lm/W	55 lm/W
	3500K	1	0.83	66 lm/W	55 lm/W
	3000K	0.97	0.81	64 lm/W	53 lm/W
	2700K	0.94	0.79	62 lm/W	52 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT TRI-FORMED LENS	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	822 lm/ft	677 lm/ft
	3500K	1	0.83	806 lm/ft	669 lm/ft
	3000K	0.97	0.81	782 lm/ft	653 lm/ft
	2700K	0.94	0.79	758 lm/ft	637 lm/ft
LH (high)	4000K	1.02	0.84	632 lm/ft	521 lm/ft
	3500K	1	0.83	620 lm/ft	515 lm/ft
	3000K	0.97	0.81	601 lm/ft	502 lm/ft
	2700K	0.94	0.79	583 lm/ft	490 lm/ft
LS (standard)	4000K	1.02	0.84	337 lm/ft	277 lm/ft
	3500K	1	0.83	330 lm/ft	274 lm/ft
	3000K	0.97	0.81	320 lm/ft	267 lm/ft
	2700K	0.94	0.79	310 lm/ft	261 lm/ft

Project name | Type | Date | Quantities

LINEAR DIMENSIONS

Nominal or exact lengths in 6" increments available as individual fixtures or joined to create continuous row lengths.

OPTICS

Cutting edge extruded acrylic lens technology is achieved with the tri-formed self- shielding lens. A linear spread diffuser, opaque white reflector, and black absorber combine to deliver a soft direct asymmetric distribution with effective backlight control from a single alluring optical element.

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 LM-79 and LM-80; L70>60,0000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; 90+ CRI available. 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.

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.

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. Neoprene gaskets provided at end caps to prevent ingress of liquids. For continuous fixture runs, wet location joiner blocks are provided. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

The ACL7 is assembled in America and complies with the Buy America(n) Act (BAA) 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/

Project name | Type | Date | Quantities