ACL9

ACL9 is a bold perimeter slot/reveal lighting luminaire that delivers ceiling to wall illumination with optimized performance using our patented HE Tech™ lens. A smart shadow mold bracket assembly promotes easy installation for both flush and 3" regressed mounting in common ceiling types.



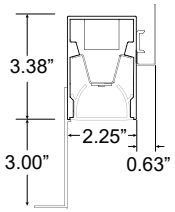
Certified · Controls · Drivers · Warranty · Location · White tuning · Dim. to warm · RGBW · Buy American

Performance

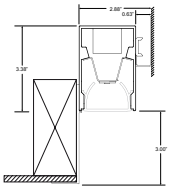
OUTPUT	DIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	HE Tech™	1170 lm/ft	13 W/ft	90 lm/W
	Flat Blade Louver®	720 lm/ft	12 W/ft	60 lm/W

Data shown with Flush Gyp, offering the highest light output among all options. Please consult factory for custom lumen output and wattage.

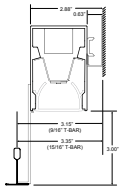
Dimensions



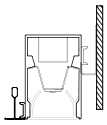
Mounting options



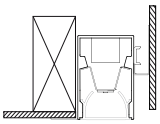
Shadowmold + 3" Regressed Gyp (RG3G)



Shadowmold + 3" Regressed T-Bar (RG3T)

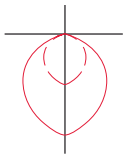


Flush T-Bar (T)

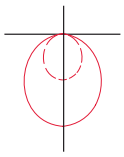


Flush Gyp (G)

Distribution options

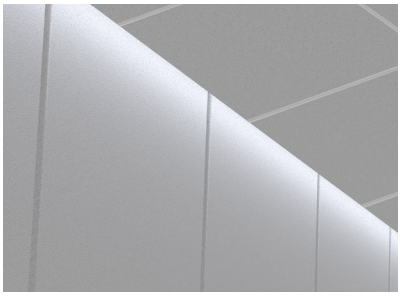


HE Tech™ (HE)



Flat Blade Louvers (LV)

Project name | Type | Date | Quantities



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.

ACL9					
SERIES	**LENGTH OR PATTERN TYPE**	**OUTPUT**	**CCT**	**CRI**	**VOLTAGE**
ACL9	**M_** Exact length[1] **PL_** "L" Shape[2] **PU_** "U" Shape[2] **PR_** Rectangle / Square[2] **CP** Custom Pattern[3] Indicate length of each section of pattern either nominal or exact. [1] Specify in inches to the nearest 1/8 (i.e. 180.125) [3] Specify in inches to the nearest 1/8. [4] Contact Design Assist	**LS** Standard Output **LH** High Output **LVH** Very high Output **C_** Custom Output[1] [1] Contact Design Assist for custom tuning or non-standard light outputs.	**27K** 2700k **30K** 3000k **35K** 3500k **40K** 4000k **DW** Dim-to-warm[1] **TW** Tunable White[1,2] **RW** RGBW (full color + 3000k White)[2,3] [1] Standard CCT range is 27-50K. Contact Design Assist for custom range. [2] Photometric data pending for Tunable White and RGBW. [3] RGBW is UL pending and only available in DMX dimming. Contact Design Assist for white CCTs other than 3000k.	**80CRI** 80+ CRI **90CRI** 90+ CRI[1] [1] Not available with (TW) Tunable White or (DW) Dim-to-Warm. Contact Design Assist to discuss RGBW possibilities.	**U** 120V-277V **3** 347V[1] [1] Not available with LEDcode or EM.

DIRECT OPTICS	**MOUNTING**	**FINISH**	**DIMMING**	**EMERGENCY**
HE HE Tech™ **LV** Flat Blade Louvers[1] [1] Aluminum Standard. Not available in Wet Location.	**G** Flush Gyp[1] **T** Flush T-Bar[1] **RG3G** Shadowmold + 3" Regressed Gyp **RG3T** Shadowmold + 3" Regressed T-Bar [1] Sensors only available with Flush Gyp or Flush T-bar mounting.	**W** White **B** Black **T** Titanium **O_** Other CBD SFH SPN SDW SCY LME SMN [1] Specify RAL# or other custom color.	**D** Standard 0-10V dimming[1] **D2** Phase dimming[2] **D3** DMX 0.1% dim-to-dark **D4** DALI dim-to-off **NAIR** nLight ®AIR (dim-to-off)[3] **NWIR** nLight ®Wired (dim-to-off) [1] 1% dimming standard unless otherwise specified. [2] Reference ERP-PHB driver for compatible dimmers. [3] nLight AIR components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available in 0-10v.	**EC** Circuited **E** Battery Not available for 347V. See technical data for more information. Not available on fixtures < 4' length. [1] Indicate length of separate EM circuit. If unknown, a 4' circuit will be provided by default. For full-length EM fixtures, no need to indicate EC. 4' fixtures will have a separate 2' EM circuit section. [2] Factory-installed emergency battery pack. Specify desired quantity of batteries.

SENSORS	**OPTIONS**
OF_ Occupancy Sensor - Fixture **PF_** Photocell / Daylight Sensor - Fixture **OPF_** Occupancy / daylight Sensor - Fixture Specify quantity of sensors per fixture. Sensors only available with Flush Gyp or Flush T-bar mounting. Sensor will be matched to dimming input. All sensors to be integral to fixture. Remote sensors are to be provided by others.	**M** Multi-Circuit[1] **R** Right Endcap Feed **L** Left Endcap Feed **EX** Extended endcaps[2] **K** Natatorium Application[3] **Q** Wet Location[4] **CP** Chicago Plenum **MRI** MRI[5] [1] Submit multi-circuiting requirements [2] Extended end cap's height covers profile height and height of regress flange; extra spackle flange with regressed gypsum. [3] Not compatible with Flat Blade Louvers Optics. See guide and contact Design Assist. [4] 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 Flat Blade Louvers Optics. [5] Review MRI brochure for more information.

Project name _____ Type _____ Date _____ Quantities _____

Light distribution

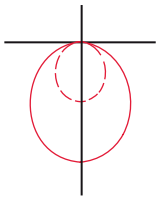
DISTRIBUTION	OUTPUT
Direct Symmetric	LVH: Very high output - 13 W/ft LH: High output - 10 W/ft LS: Standard output - 4.5 W/ft C: Custom tuned output - Contact Design Assist

Photometric data

DIRECT SYMMETRIC
LVH - 4FT - 3500K - HE TECH

Lumens: 1170 lm/ft
Input watts: 13 W/ft
Efficacy: 90 lm/W

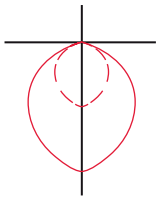
LH: ———
LS: — — — —



DIRECT SYMMETRIC
LVH - 4FT - 3500K - BLADE LOUVERS

Lumens: 720 lm/ft
Input watts: 12 W/ft
Efficacy: 60 lm/W

LH: ———
LS: — — — —



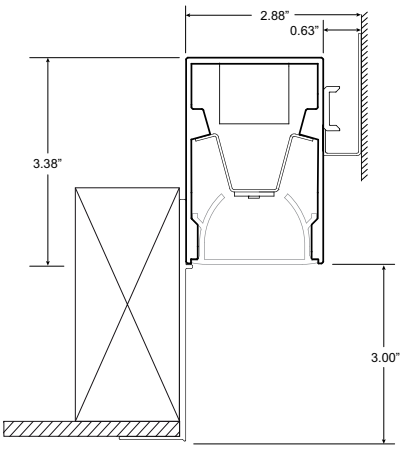
Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY							
				G HE TECH		RG3G HE TECH		G LOUVER		RG3G LOUVER	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	92 lm/W	76 lm/W	90 lm/W	74 lm/W	61 lm/W	50 lm/W	57 lm/W	47 lm/W
	3500K	1	0.83	90 lm/W	75 lm/W	88 lm/W	73 lm/W	60 lm/W	50 lm/W	56 lm/W	46 lm/W
	3000K	0.97	0.81	87 lm/W	73 lm/W	85 lm/W	71 lm/W	58 lm/W	49 lm/W	54 lm/W	45 lm/W
	2700K	0.94	0.79	85 lm/W	71 lm/W	83 lm/W	70 lm/W	56 lm/W	47 lm/W	53 lm/W	44 lm/W
LH (high)	4000K	1.02	0.84	98 lm/W	81 lm/W	95 lm/W	78 lm/W	63 lm/W	52 lm/W	60 lm/W	50 lm/W
	3500K	1	0.83	96 lm/W	80 lm/W	93 lm/W	77 lm/W	62 lm/W	51 lm/W	59 lm/W	49 lm/W
	3000K	0.97	0.81	93 lm/W	78 lm/W	90 lm/W	75 lm/W	60 lm/W	50 lm/W	57 lm/W	48 lm/W
	2700K	0.94	0.79	90 lm/W	76 lm/W	87 lm/W	73 lm/W	58 lm/W	49 lm/W	55 lm/W	47 lm/W
LS (standard)	4000K	1.02	0.84	112 lm/W	92 lm/W	109 lm/W	90 lm/W	69 lm/W	57 lm/W	72 lm/W	60 lm/W
	3500K	1	0.83	110 lm/W	91 lm/W	107 lm/W	89 lm/W	68 lm/W	56 lm/W	71 lm/W	59 lm/W
	3000K	0.97	0.81	107 lm/W	89 lm/W	104 lm/W	87 lm/W	66 lm/W	55 lm/W	69 lm/W	58 lm/W
	2700K	0.94	0.79	103 lm/W	87 lm/W	101 lm/W	85 lm/W	64 lm/W	54 lm/W	67 lm/W	56 lm/W

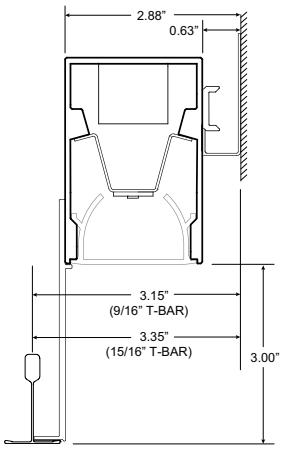
OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT							
				G HE TECH		RG3G HE TECH		G LOUVER		RG3G LOUVER	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1193 lm/ft	983 lm/ft	1167 lm/ft	961 lm/ft	734 lm/ft	605 lm/ft	771 lm/ft	635 lm/ft
	3500K	1	0.83	1170 lm/ft	971 lm/ft	1144 lm/ft	950 lm/ft	720 lm/ft	598 lm/ft	756 lm/ft	627 lm/ft
	3000K	0.97	0.81	1135 lm/ft	948 lm/ft	1110 lm/ft	927 lm/ft	698 lm/ft	583 lm/ft	733 lm/ft	612 lm/ft
	2700K	0.94	0.79	1100 lm/ft	924 lm/ft	1075 lm/ft	904 lm/ft	677 lm/ft	569 lm/ft	711 lm/ft	597 lm/ft
LH (high)	4000K	1.02	0.84	979 lm/ft	806 lm/ft	949 lm/ft	781 lm/ft	601 lm/ft	495 lm/ft	632 lm/ft	520 lm/ft
	3500K	1	0.83	960 lm/ft	797 lm/ft	930 lm/ft	772 lm/ft	589 lm/ft	489 lm/ft	620 lm/ft	514 lm/ft
	3000K	0.97	0.81	931 lm/ft	778 lm/ft	902 lm/ft	753 lm/ft	571 lm/ft	477 lm/ft	601 lm/ft	502 lm/ft
	2700K	0.94	0.79	902 lm/ft	758 lm/ft	874 lm/ft	735 lm/ft	554 lm/ft	465 lm/ft	582 lm/ft	489 lm/ft
LS (standard)	4000K	1.02	0.84	505 lm/ft	416 lm/ft	491 lm/ft	404 lm/ft	312 lm/ft	257 lm/ft	326 lm/ft	268 lm/ft
	3500K	1	0.83	495 lm/ft	411 lm/ft	482 lm/ft	400 lm/ft	306 lm/ft	254 lm/ft	320 lm/ft	265 lm/ft
	3000K	0.97	0.81	480 lm/ft	401 lm/ft	467 lm/ft	390 lm/ft	297 lm/ft	248 lm/ft	310 lm/ft	259 lm/ft
	2700K	0.94	0.79	465 lm/ft	391 lm/ft	453 lm/ft	380 lm/ft	288 lm/ft	242 lm/ft	300 lm/ft	252 lm/ft

Project name | Type | Date | Quantities

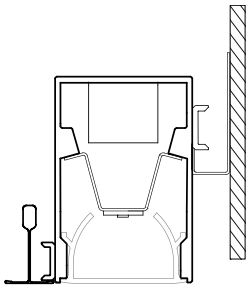
Mounting



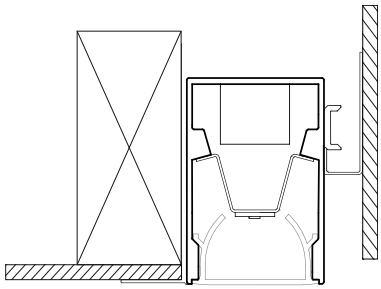
Shadowmold + 3"
Regressed Gyp
(RG3G)



Shadowmold + 3"
Regressed T-Bar
(RG3T)

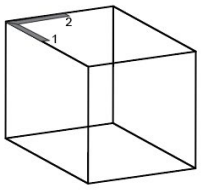


Flush T-Bar
(T)

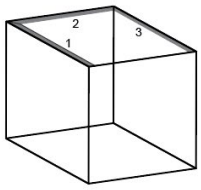


Flush Gyp
(G)

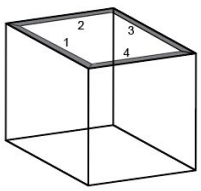
Standard patterns



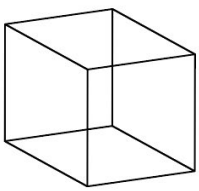
Ceiling only
(PLC)



Ceiling only
(PUC)

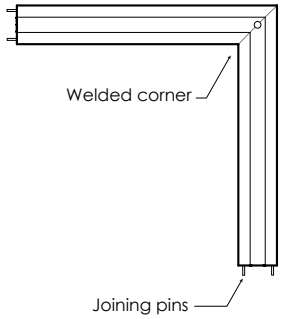


Ceiling only
(PRC)

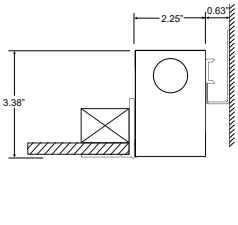


Custom Pattern
(CP)

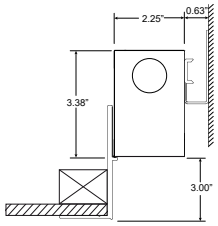
Corner details



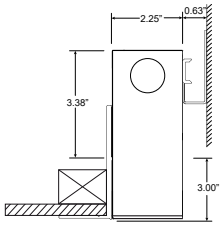
Endcap details



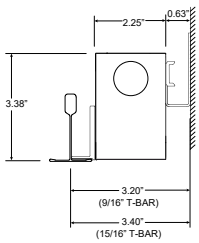
Shadowmold + Flush
Regressed Gyp
(G)



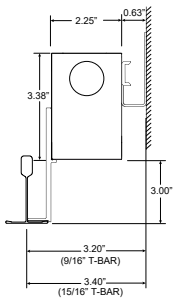
Shadowmold + 3"
Regressed Gyp
(RG3G)



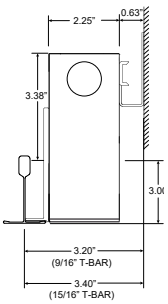
Shadowmold + 3"
Regressed Gyp + EX
(RG3T)



Shadowmold + Flush
Regressed T-Bar
(T)



Shadowmold + 3"
Regressed T-Bar
(RG3T)

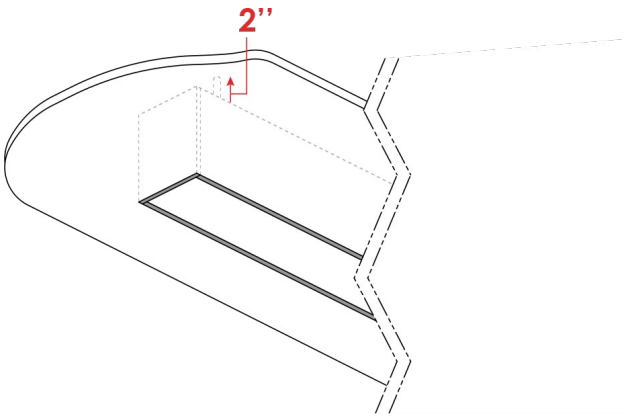


Shadowmold + 3"
Regressed T-Bar + EX
(RG3T)

Project name | Type | Date | Quantities

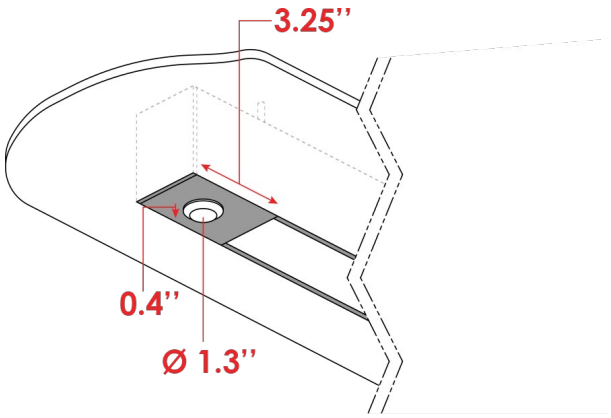
NLight dimensions

AIR : rIO Recessed



*Fixture mounted module for nLightAIR only.

AIR : res7 Recessed



*Fixture mounted sensors and filler panel for nLightAIR only.

Project name | Type | Date | Quantities

LINEAR DIMENSIONS

Exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 feet. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions.

Custom - Contact Design Assist for modifications to product not detailed within this specification sheets.

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.

Flat Blade Louvers are used to cut down on glare and better control the light source on ACL9 This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control. The louvers standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

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>60,0000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 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.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni- Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight ® for system networking wired and wireless:

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

Shadowmold. Upper and lower fixture raw aluminum flanges provide choice of flush or 3" regress perimeter shadowmold mounting. A black shadowmold (J-mold) bracket is secured to the wall using blocking as required and attachment hardware (by others). Upper fixture flange attaches to j-molding to create a 5/8" gap between fixture and wall.

For Tbar: rest lower fixture flange on top side of tbar ceiling system and secure to structure with tie wires at fixture ends. Gyp: lower fixture flange is attached gyp ceiling and blocking (by others), then mudded over and/or painted by installing contractor. For continuous fixture runs, fixture should be supported every 12 feet using support wires or threaded rod (by others).

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.

The ACL9 is assembled in the U.S.A. and complies with the Buy America(n) Act(BAA) government procurement requirements under FAR, DFARS, and DOTS.

WARRANTY

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

Project name | Type | Date | Quantities