

APX3ST

APX3ST is a powerful luminaire that offers impressively precise beam angles. APX3ST provides high performance light without the distraction of a visible light source due to its recessed cell technology and dark aperture.

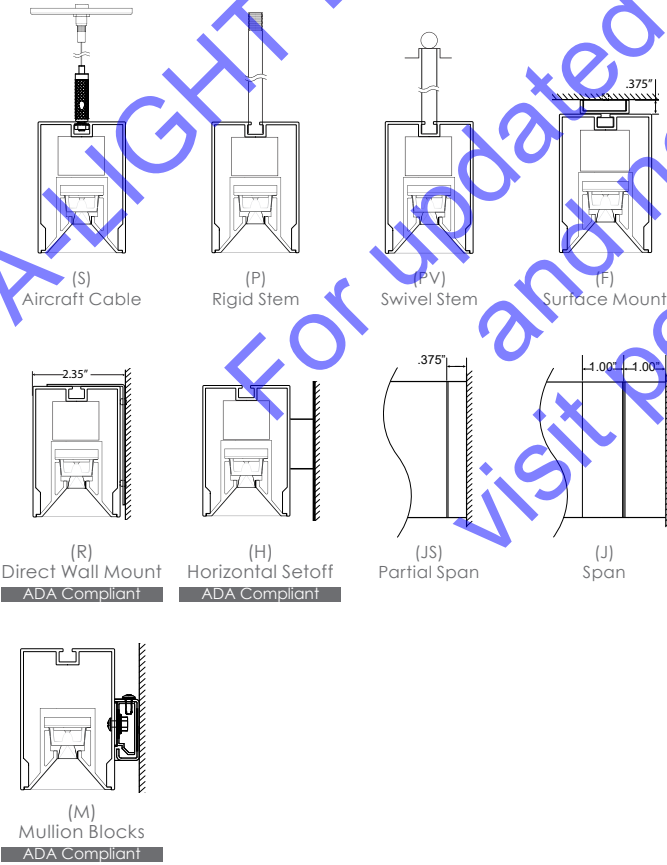


Performance

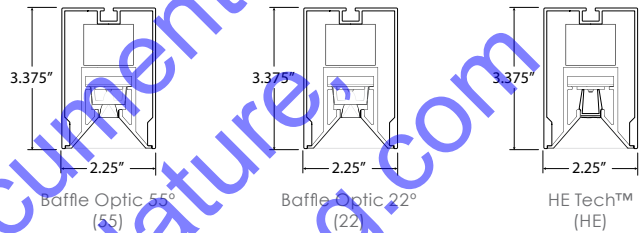
OUTPUT	OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	55°	1326 lm/ft	17 W/ft	78 lm/W
	22°	1615 lm/ft	17 W/ft	95 lm/W
	HE Tech™	525 lm/ft	10.5 W/ft	50 lm/W

Based on static white 3500K 55° optic APEX fixture. For the complete photometric data of this fixture refer to pages 3 and 4.

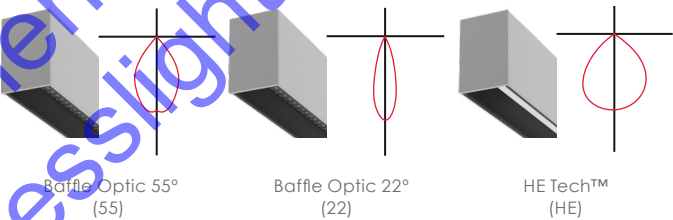
Mounting options



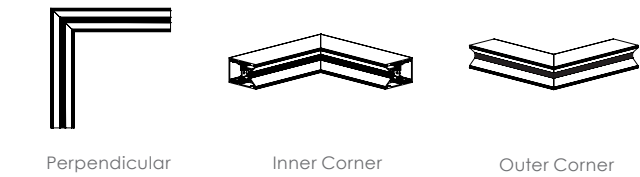
Dimensions

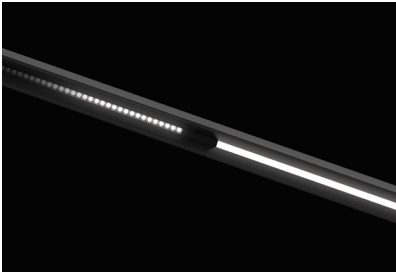


Lens options



Multiple corners 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)
is here to make the process move smoothly.

APX3ST						
SERIES	LENGTH OR PATTERN TYPE	OUTPUT	LED CCT	CRI	VOLTAGE	DIRECT OPTICS
APX3ST	_ Nominal Length ¹ M_ Exact Length ² PL_ "L" Shape ³ PU_ "U" Shape ³ PR_ Rectangle/Square ³ Indicate length of each section of pattern either nominal or exact. ¹Specify to nearest 1" lighted segment. Smallest length possible is 1". ²Specify in inches to the nearest 1/8". Minimum length nominal 12". ³Specify to nearest 6" lighted segment (See Pattern Guide for details)	LS Standard Output LH High Output LVH Very high output C_ Custom Output ¹	30 3000k 35 3500k 40 4000k	80+ CRI 90+ CRI	U 120-277V 3 347V	55 Baffled optic 55 Degree ¹ 22 Baffled optic 22 Degree ¹ HE HE Tech
		¹ Contact Design Assist for custom tuned output.		Not available with LEDcore or EM.		¹ Fully illuminated corners not available with baffle optic. Standard 1" x 1" filler panel provided. Specify if custom length for filler panel is required, contact Design Assist.

MOUNTING	FINISH	TRIM BAFFLE FINISH ¹	DIMMING	EMERGENCY
S Aircraft cable ¹ P_ Rigid stem ² PV_ Swivel stem ² R Direct wall mount F Surface Mount H_ H-Bracket mount ³ M_ Mullion blocks ⁴ JS Partial span J Full span Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. ¹Standard 48" field adjustable cable, specify length to nearest inch if over 48". ²Indicate stem length to nearest inch. 600" minimum. Standard stem length 36.00". ³Enter 1 for 1" depth, Enter 5 for 1/2" depth. ⁴Enter "1" for 1" depth, Enter "5" for 1/2" depth. Must verify with curtainwall manufacturer for fixture installation.	W White B Black T Titanium O Other ¹ ¹Specify RAL# or other custom color.	B Black ¹Blank panels to match the finish	D Standard 0-10V dimming ¹ D1 HiLume Ecosystems 1% (LDE) 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)	EC Circuited ¹ E_ Battery ² ¹Not available on fixtures < 4' length. Smallest EM circuit is 2ft. If entire fixture is on EM circuit, no need to call out EC in part number. ²Remote mounted emergency battery pack only. Specify desired quantity of batteries. Not available for 347V. See technical data for more information.

SENSORS	OPTIONS
OF_ Occupancy Sensor - Fixture PF_ Photocell / Daylight Sensor - Fixture OFF_ Occupancy / daylight Sensor - Fixture Specify quantity of sensors per fixture. Sensor will be matched to dimming input.	M_ Multi-Circuit ¹ R_ Right end cap feed L_ Left end cap feed ¹Submit multi-circuiting requirements.

Light distribution

DISTRIBUTION

Direct Symmetric

OUTPUT (DC)

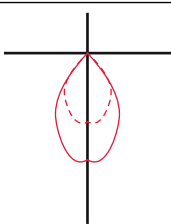
LVH: Very high output - 17 W/ft (22° and 55°)
LVH: Very high output - 10.5 W/ft (HE)
LH: High output - 13.5 W/ft (22° and 55°)
LH: High output - 8 W/ft (HE)
LS: Standard output - 6.5 W/ft (22° and 55°)
LS: Standard output - 4 W/ft (HE)
C: Custom tuned output - Contact Design Assist

Photometric data

DIRECT SYMMETRIC
LVH - 4FT - 3500K - 55°

Lumens: 1615 lm/ft
Input watts: 17 W/ft
Efficacy: 78 lm/W

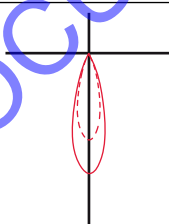
LH: ———
LS: - - - - -



DIRECT SYMMETRIC
LVH - 4FT - 3500K - 22°

Lumens: 1326 lm/ft
Input watts: 17 W/ft
Efficacy: 95 lm/W

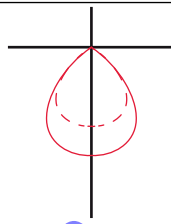
LH: ———
LS: - - - - -



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

Lumens: 525 lm/ft
Input watts: 10.5 W/ft
Efficacy: 50 lm/W

LH: ———
LS: - - - - -

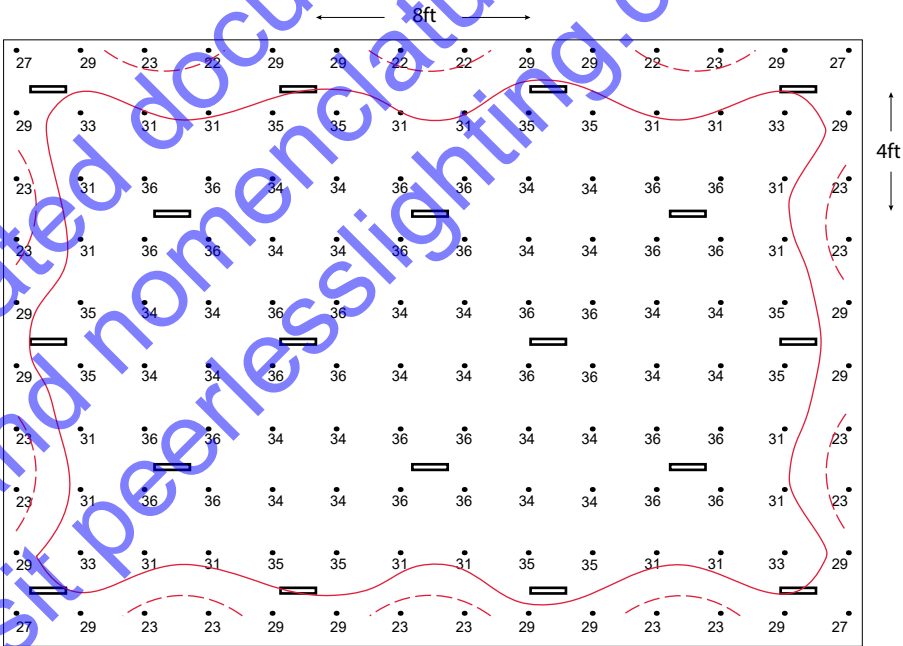


Sample Installation - Workspace

LH DOWN - 4000K

Room dimensions: 28' X 20' X 9'
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Distance from wall: 1 ft
Fixture length: 1 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (Horizontal): 2.5'ft A.F.F.
Average Illuminance: 32 fc
Uniformity: 1.64 (avg/min.)

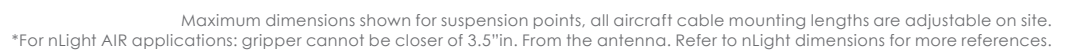
TOP VIEW
30 fc: ———
20 fc: - - - - -



Light loss factors (LLF)

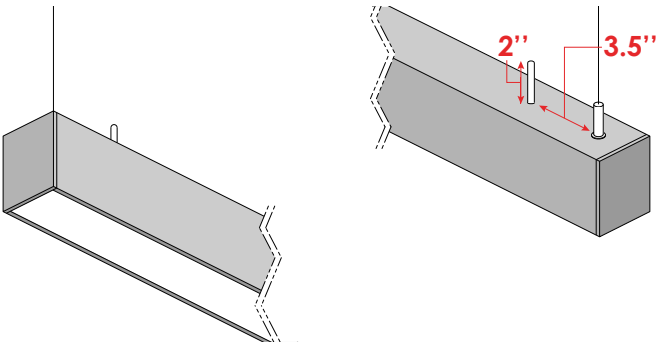
OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY					
				22' BAFFLE		55' BAFFLE		HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.03	0.85	98 lm/W	81 lm/W	80 lm/W	66 lm/W	52 lm/W	43 lm/W
	3500K	1	0.82	95 lm/W	78 lm/W	78 lm/W	64 lm/W	50 lm/W	41 lm/W
	3000K	0.98	0.79	93 lm/W	75 lm/W	76 lm/W	62 lm/W	49 lm/W	40 lm/W
	2700K	0.96	0.74	91 lm/W	70 lm/W	75 lm/W	58 lm/W	48 lm/W	37 lm/W
LH (high)	4000K	1.03	0.85	100 lm/W	82 lm/W	82 lm/W	68 lm/W	56 lm/W	46 lm/W
	3500K	1	0.82	97 lm/W	80 lm/W	80 lm/W	66 lm/W	54 lm/W	44 lm/W
	3000K	0.98	0.79	95 lm/W	77 lm/W	78 lm/W	63 lm/W	53 lm/W	43 lm/W
	2700K	0.96	0.74	93 lm/W	72 lm/W	77 lm/W	59 lm/W	52 lm/W	40 lm/W
LS (standard)	4000K	1.03	0.85	106 lm/W	88 lm/W	87 lm/W	71 lm/W	58 lm/W	48 lm/W
	3500K	1	0.82	103 lm/W	84 lm/W	84 lm/W	69 lm/W	56 lm/W	46 lm/W
	3000K	0.98	0.79	101 lm/W	81 lm/W	82 lm/W	66 lm/W	55 lm/W	44 lm/W
	2700K	0.96	0.74	99 lm/W	76 lm/W	81 lm/W	62 lm/W	54 lm/W	41 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT					
				22' BAFFLE		55' BAFFLE		HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.03	0.85	1663 lm/ft	1373 lm/ft	1366 lm/ft	1127 lm/ft	541 lm/ft	446 lm/ft
	3500K	1	0.82	1615 lm/ft	1324 lm/ft	1326 lm/ft	1087 lm/ft	525 lm/ft	431 lm/ft
	3000K	0.98	0.79	1583 lm/ft	1276 lm/ft	1299 lm/ft	1048 lm/ft	515 lm/ft	415 lm/ft
	2700K	0.96	0.74	1550 lm/ft	1195 lm/ft	1273 lm/ft	981 lm/ft	504 lm/ft	389 lm/ft
LH (high)	4000K	1.03	0.85	1349 lm/ft	1113 lm/ft	1112 lm/ft	918 lm/ft	445 lm/ft	367 lm/ft
	3500K	1	0.82	1310 lm/ft	1074 lm/ft	1080 lm/ft	886 lm/ft	432 lm/ft	354 lm/ft
	3000K	0.98	0.79	1283 lm/ft	1035 lm/ft	1058 lm/ft	853 lm/ft	423 lm/ft	341 lm/ft
	2700K	0.96	0.74	1257 lm/ft	969 lm/ft	1037 lm/ft	799 lm/ft	415 lm/ft	320 lm/ft
LS (standard)	4000K	1.03	0.85	690 lm/ft	569 lm/ft	562 lm/ft	464 lm/ft	231 lm/ft	190 lm/ft
	3500K	1	0.82	670 lm/ft	549 lm/ft	546 lm/ft	448 lm/ft	224 lm/ft	184 lm/ft
	3000K	0.98	0.79	656 lm/ft	529 lm/ft	535 lm/ft	431 lm/ft	220 lm/ft	177 lm/ft
	2700K	0.96	0.74	643 lm/ft	495 lm/ft	524 lm/ft	404 lm/ft	215 lm/ft	166 lm/ft



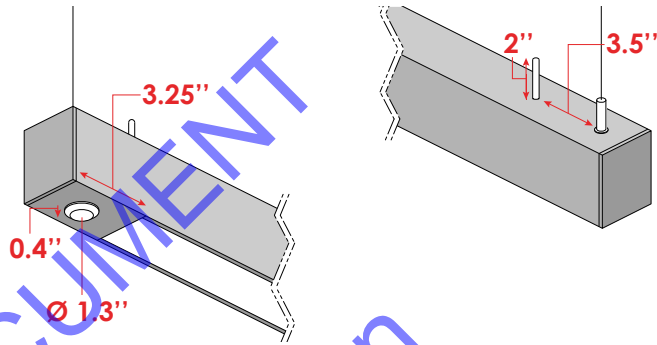
NLight dimensions

AIR : r10



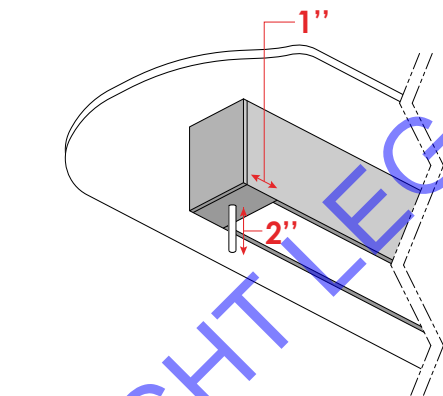
*Module for nLight AIR only.

AIR : res7



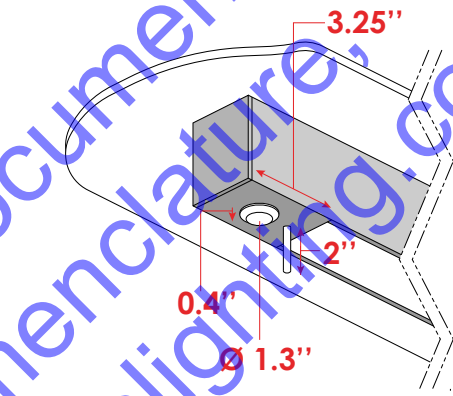
*Fixture mounted sensor and filler panel for nLight AIR only.

AIR : r10 Surface



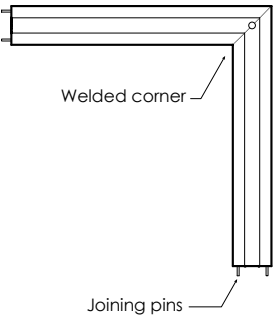
*Fixture mounted module and filler panel for nLightAIR only.

AIR : res7 Surface

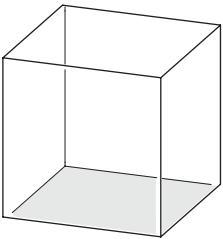


*Fixture mounted sensors and filler panel for nLightAIR only.

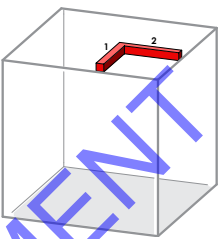
Corner detail



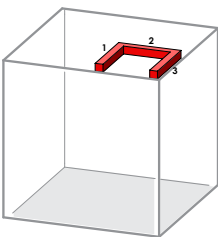
Standard patterns



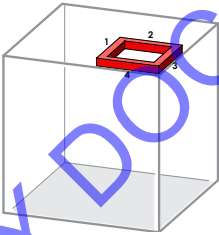
Custom Pattern*



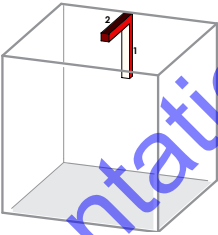
(PL)



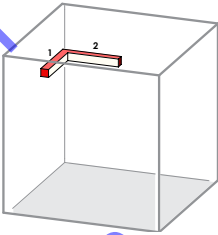
(PU)



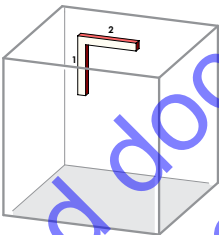
(PR)



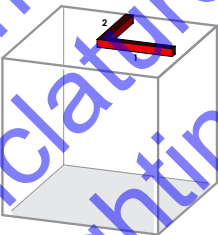
(PLCW) Wall to Ceiling



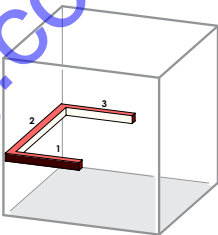
(PLWW) Wall to Wall



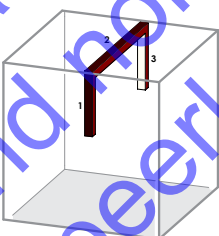
(PLW) Wall Only



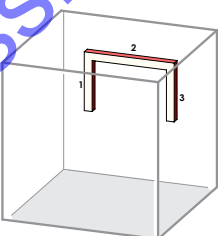
(PLC) Ceiling Only



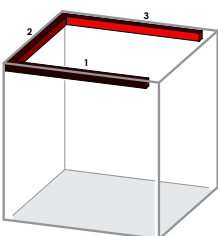
(PUWW) Wall to Wall



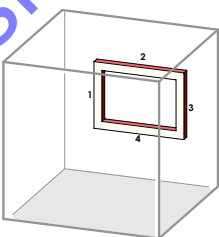
(PUCW) Wall to Ceiling to Wall



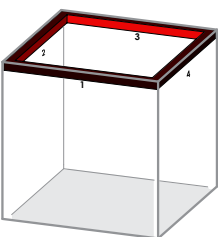
(PUW) Wall Only



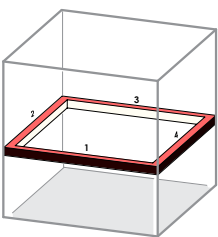
(PUC) Ceiling Only



(PRW) Wall Only



(PRC) Ceiling Only

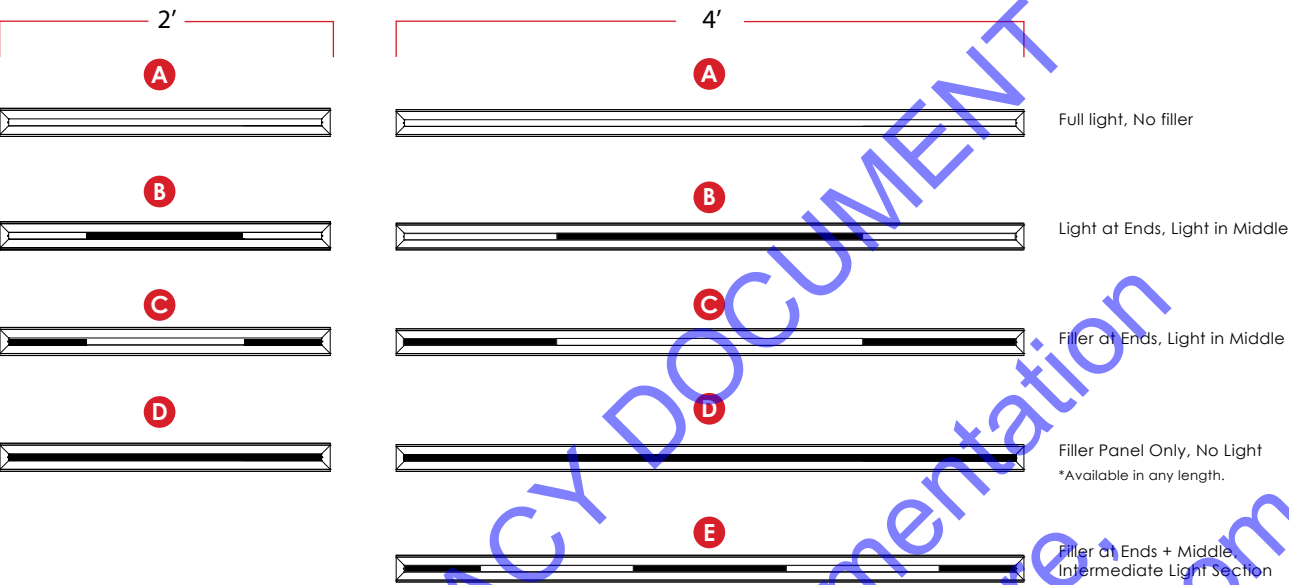


(PRWW) Rectangle Wall to Wall

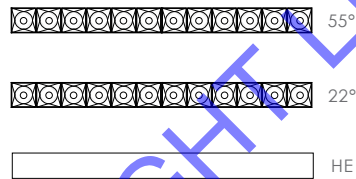
*Contact Design Assist for custom patterns.

Configure row and patterns using a variety of 2' and 4' straight modules and corner modules.

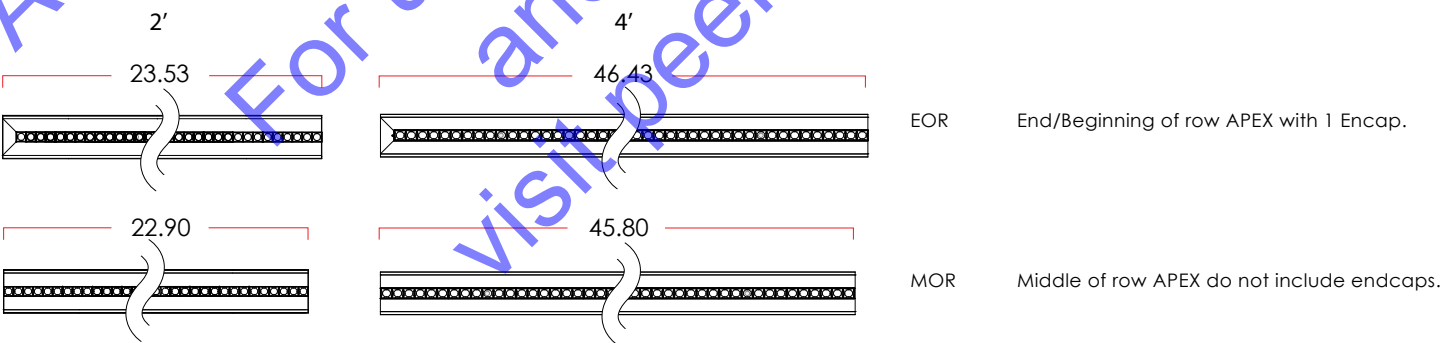
Module types



Optic types



Module lengths - Without fixture housing



LINEAR DIMENSIONS

Exact extrusion lengths to the nearest 1/8" of an inch available as individual fixtures or joined to create continuous row lengths, minimum extrusion length is 12". Overall lighted length must be in 6" increments.

Custom modules - Configure a variety of straight and corner modules with various optics in a single housing to create rows or patterns with enhanced adaptability.

Custom - Contact [Design Assist](#) for modifications to product not detailed within specification sheets.

Filler panel - Lengths are nominal. All precise blank panel lengths will be determined by factory to accommodate for row length variations due to ceiling type and to allow for proper ventilation.

OPTICS

Custom designed and manufactured optical system comprised of a Total Internal Reflecting (TIR) optic used in conjunction with a primary light absorbing baffle that is set into a secondary regressed baffle trim. System optics provide high efficiency with a 55° sharp cut-off (half-angle from Nadir), 22° angle and a 55° FWHM (Full Width Half Maximum) angle.

The high-efficiency extruded diffuse acrylic lens technology, patented HE Tech™, 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 LM-79 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). 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. Other available drivers include DALI protocol drivers.

EMERGENCY

This luminaire is provided with a remote mounted LED emergency lighting battery pack for both normal and emergency operation, 120-277v only.

This 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, unless otherwise noted.

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 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

Suspension with aircraft cables or pendant stems, and full or partial span mounting available.

Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length and adjustable suspension points to accommodate existing architecture, comes factory pre-installed in fixture. 4-1/2" x 4-1/2" square white canopies. Cord strain also included. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

MOUNTING CONTD.

Rigid pendant stem-set includes 1/4" hollow white threaded rod for suspension and power feed. Factory pre-drilled power feed and tapped holes, submit dimension requirements when ordering. Standard specification length, 6" minimum. 5" square mono point white canopies.

Swivel stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" in minimum. 5" in square mono point white 45-degree angle swivel stem. Factory pre-drilled power feed and tapped holes, submit dimension requirements when ordering.

Specify if another suspension length is required. Canopies provided as required for the quantity of power feed and non-power feed locations (crossbar included). Specify if another shape, size, or color is required.

Direct wall mounting is ADA compliant. Factory pre-drilled holes can be tapped for 1/2" chase nipple, submit dimension requirements when ordering. The top groove of the fixture is used to mount the fixture and provides a firm and flexible mounting option.

Surface ceiling and wall mounting is offered with die-cast mounting blocks with sheet metal brackets used to provide a firm flexible mounting option in any orientation the system might be installed in.

Mullion blocks are used to mount fixture to a horizontal or vertical window mullion and can also be used to offset fixture from wall. 0.5", 1" or 1.5" sheet metal mullion blocks are standard available. (2) blocks provided for extrusions 8ft or less, fixtures larger than 8ft additional blocks are provided as required. Quantity of power feed and non power feed blocks provided as required. Fixture mounting requires field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for 1/2" chase nipple, submit dimension requirements when ordering.

Horizontal Set-off brackets are used to offset fixture from a wall by 1" or 1/2". Wall side bracket attaches to horizontal single gang box on wall. Outside horizontal box is factory-installed to fixture side. Fixture side box hinges over wall bracket and two brackets are fastened together with set screw to secure fixture to wall. (2) brackets per fixture up to 12', on center spacing varies depending on overall fixture length. Not available in wet location.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to the wall (blocking required) and feed power through the end cap, specify end feed location. Additional attachment hardware provided as required depending on partial span condition. Provide architectural details at time of ordering for inclusion in factory shop drawings; field verified dimensions required for full span mounting.

STRUCTURE

Filler Panel Construction: Formed, aluminum cover, painted matte black. Filler panel replaces light engine and is aligned on the same plane as adjacent baffle cells.

FINISH

Electro-statically 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.

Filler panel finish: Electro-statically applied post powder coat module finish. Color will match extruded baffle finish.

LISTING

UL/CUL rated for damp locations. Tested under UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

The APX3ST 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/