APX5

APX5 is a powerful luminaire that offers impressively precise beam angles. APX5 provides high performance light without the distraction of a visible light source due to its recessed cell technology and dark aperture.



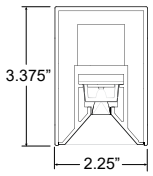
nLIGHT Controls | eldoLED Drivers | Sensors | DAMP Location | HE Tech lens | BAA Buy American | Build America Buy America BABA | 5Y Warranty | cULus Certified

Performance

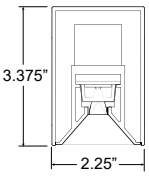
OUTPUT	OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	55°	1326 lm/ft	17 W/ft	78 lm/W
	22°	1615 lm/ft	17 W/ft	95 lm/W
	HE Tech™	525 lm/ft	10.5 W/ft	50 lm/W

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

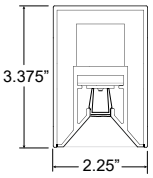
Dimensions



Baffle Optic 55°
(55)

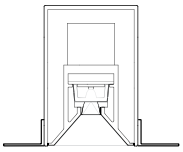


Baffle Optic 22°
(22)

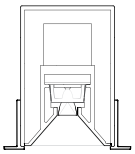


HE Tech™
(HE)

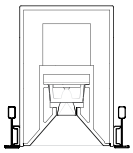
Mounting options



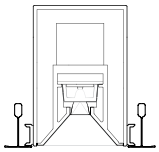
(G)
Flush Gyp/Hard Lid



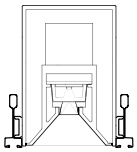
(XP)
Trim Flange



(T)
T-Bar 9/16"

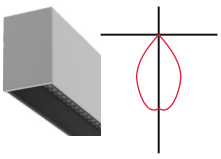


(X)
T-Bar 15/16"

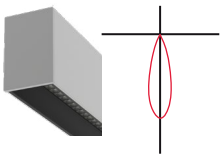


(N)
T-Bar 9/16" Slot

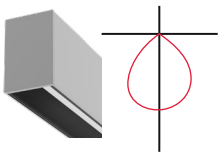
Lens options



Baffle Optic 55°
(55)

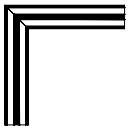


Baffle Optic 22°
(22)



HE Tech™
(HE)

Multiple corners options



Perpendicular Corner

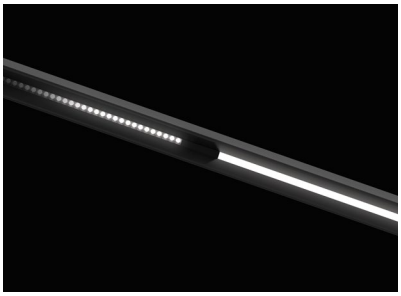


Inner Corner



Outer Corner

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.

APX5						
SERIES	**LENGTH OR PATTERN TYPE**	**OUTPUT**	**LED CCT**	**CRI**	**VOLTAGE**	**DIRECT OPTICS**
APX5	**_** 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. [1] Specify in feet to the nearest foot (i.e. 12) [2] Specify in inches to the nearest 1/8 (i.e. 180.125) [3] Specify in inches to the nearest 1/8.	**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.	**30** 3000k **35** 3500k **40** 4000k	**_** 80+ CRI **CRI** 90+ CRI	**U** 120-277V **3** 347V [1] Not available with LEDcode or EM.	**55** Baffled optic 55 Degree[1] **22** Baffled optic 22 Degree[1] **HE** HE Tech [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	**EXTRUSION FINISH**	**TRIM BAFFLE FINISH**	**DIMMING**	**EMERGENCY**
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 **O_** Other[1] [1] Required for XP mounting type only. [2] Specify RAL# or other custom color.	**B** Black	**D** Standard 0-10V dimming[1] **D1** HiLume Ecosystems 1% (LDE1) **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.	**EC** Circuited[1] **E_** Battery[2] [1] Not available on fixtures < 4' length. Smallest EM circuit is 2'ft. If entire fixture is on EM circuit, no need to call out EC in part number. [2] Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available on fixtures <4' length. Not available for 347V. See technical data for more information.

SENSORS	**OPTIONS**
OF_ Occupancy Sensor - Fixture **PF_** Photocell / Daylight Sensor - Fixture **OPF_** 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 **CP** Chicago Plenum [1] Submit multi-circuiting requirements

Project name | Type | Date | Quantities

Light distribution

DISTRIBUTION

Direct Symmetric

OUTPUT (DC)

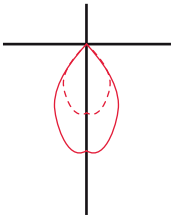
LVH: Very high output - 17 W/ft (22° and 55°)
LVH: Very high output - 10.5 W/ft (HE)
LH: High output - 13.5 W/ft (22° and 55°)
LH: High output - 8 W/ft (HE)
LS: Standard output - 6.5 W/ft (22° and 55°)
LS: Standard output - 4 W/ft (HE)
C: Custom tuned output - Contact Design Assist

Photometric data

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

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

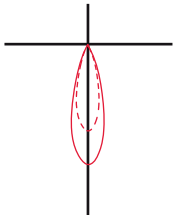
LH: ——
LS: – – – –



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

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

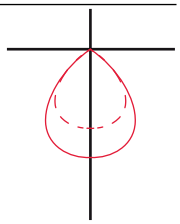
LH: ——
LS: – – – –



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

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

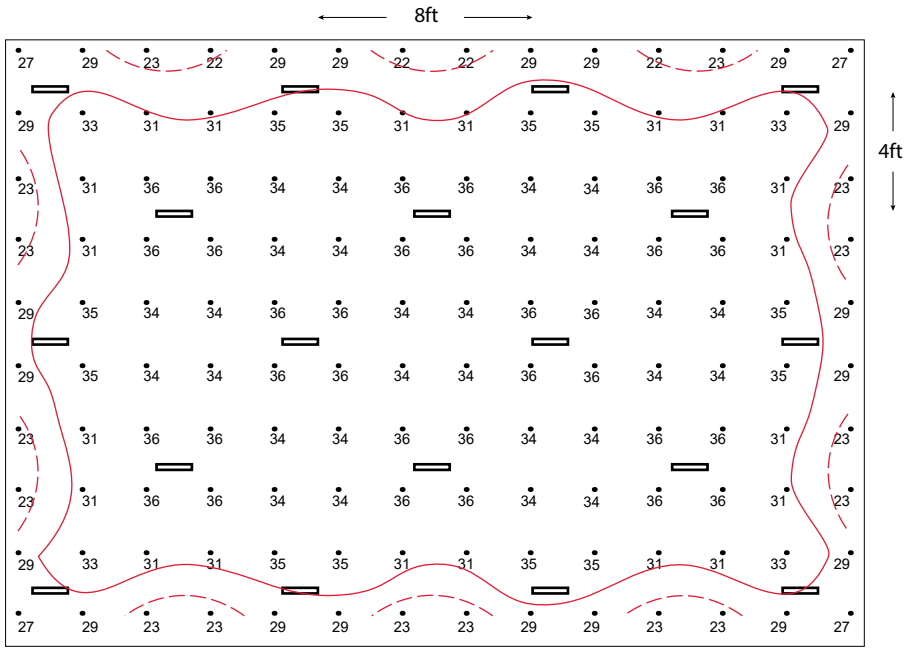
LH: ——
LS: – – – –



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: – – – –

Project name | Type | Date | Quantities

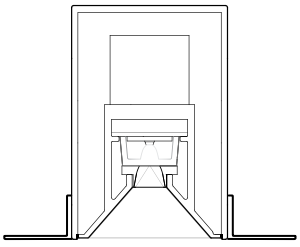
Light loss factors (LLF)

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

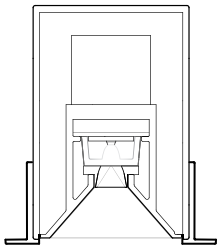
OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT					
				22˚ BAFFLE		55˚ BAFFLE		HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.03	0.85	1663 lm/ft	1373 lm/ft	1366 lm/ft	1127 lm/ft	541 lm/ft	446 lm/ft
	3500K	1	0.82	1615 lm/ft	1324 lm/ft	1326 lm/ft	1087 lm/ft	525 lm/ft	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

Project name | Type | Date | Quantities

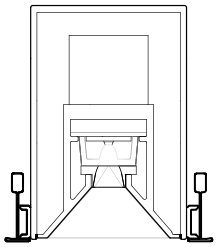
Mounting



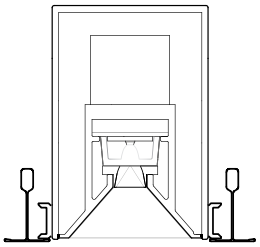
(G)
Flush Gyp/Hard Lid



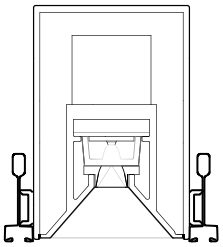
(XP)
Trim Flange



(T)
T-bar 9/16"

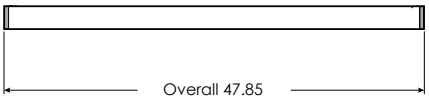


(X)
T-bar 15/16"

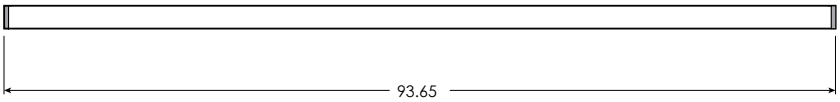


(N)
T-bar 9/16 Slot"

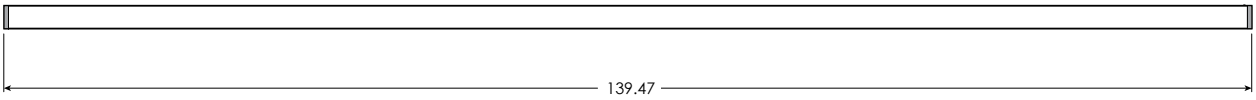
Nominal mounting lengths



Nominal 4'



Nominal 8'

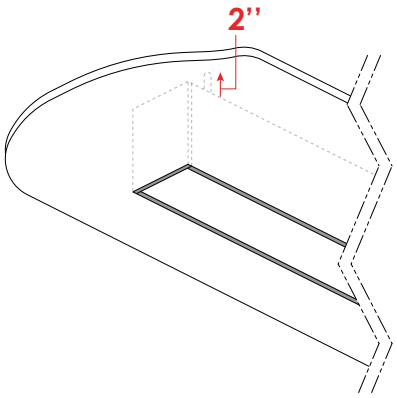


Nominal 12'

Project name | Type | Date | Quantities

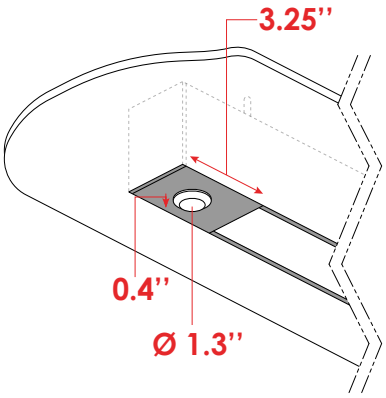
NLight dimensions

AIR : rIO Recessed



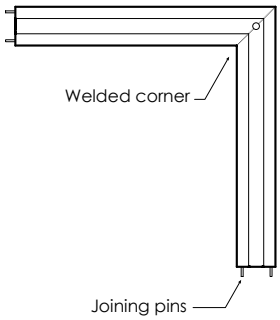
*Module for nLight AIR only.

AIR : res7 Recessed

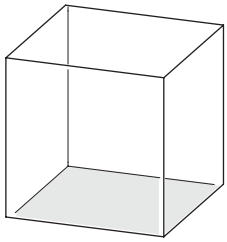


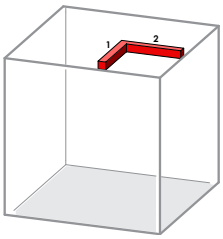
*Fixture mounted sensors and filler panel for nLight AIR only.

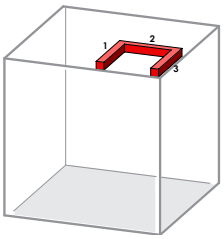
Corner detail

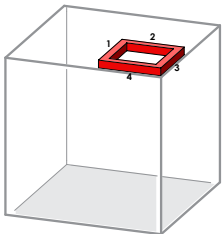


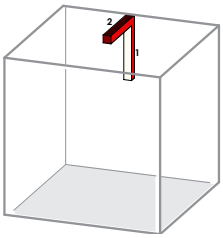
Standard patterns

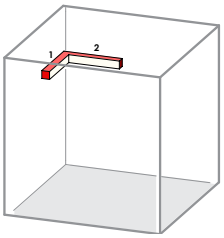

Custom Pattern*

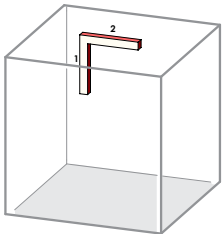

(PL)

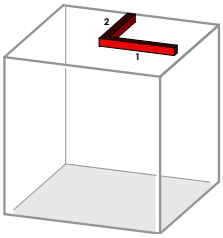

(PU)

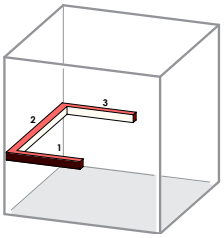

(PR)

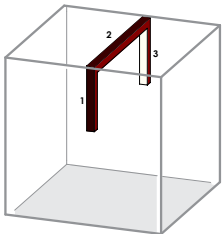

(PLCW) Wall to Ceiling

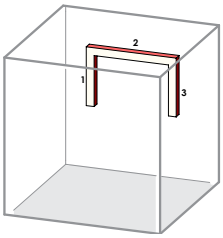

(PLWW) Wall to Wall

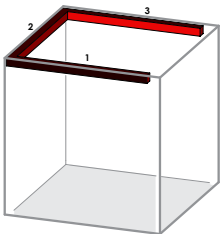

(PLW) Wall Only

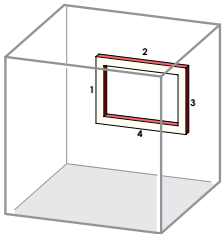

(PLC) Ceiling Only

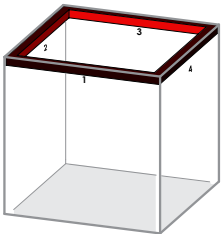

(PUWW) Wall to Wall

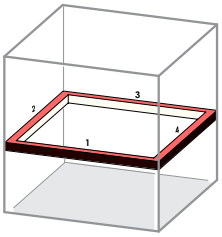

(PUCW) Wall to Ceiling to Wall


(PUW) Wall Only


(PUC) Ceiling Only


(PRW) Wall Only


(PRC) Ceiling Only

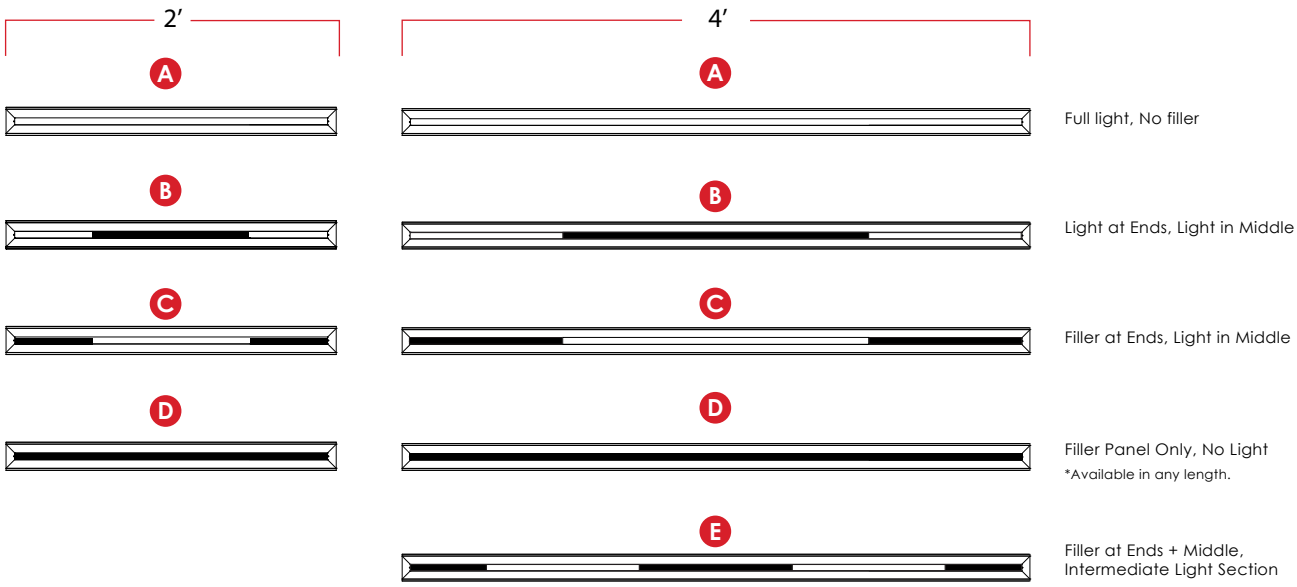

(PRWW) Rectangle Wall to Wall

*Contact Design Assist for custom patterns.

Project name | Type | Date | Quantities

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

Module types



Full light, No filler

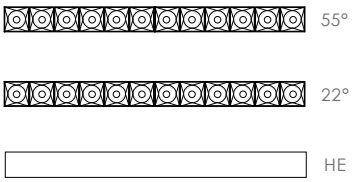
Light at Ends, Light in Middle

Filler at Ends, Light in Middle

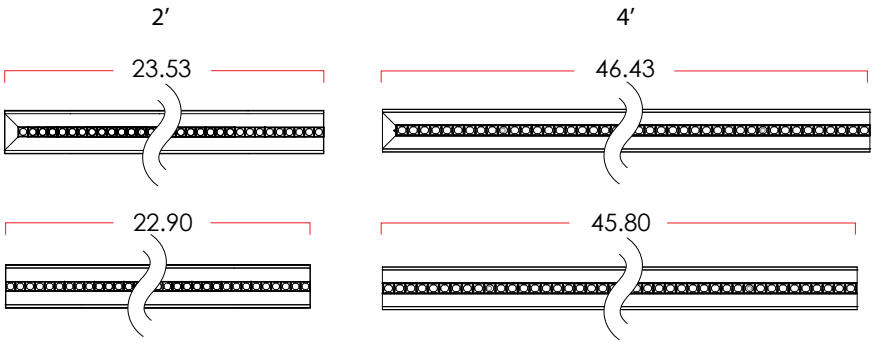
Filler Panel Only, No Light
*Available in any length.

Filler at Ends + Middle,
Intermediate Light Section

Optic types



Module lengths - Without fixture housing



EOR — End/Beginning of row APEX with 1 Encap.

MOR — Middle of row APEX do not include endcaps.

Project name | Type | Date | Quantities

LINEAR DIMENSIONS

Exact lengths to the nearest 1/16" of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths 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 ventilliation.

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>60,0000hr; 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 -30°C to 50°C, maximum case temperature of 75°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 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, unless otherwise noted. Not available in fixtures <4 feet.

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

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

Flush Gypsum Flange. 1.08" 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

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

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.

APX5 is assembled in America and complies with the Buy America(n) Act (BAA), and 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/

Project name | Type | Date | Quantities