

HIGHLIGHTS

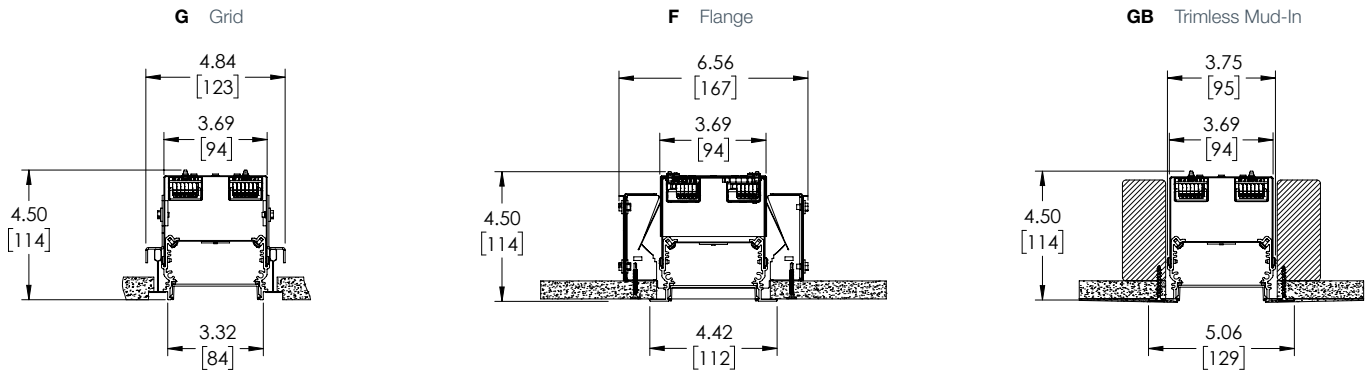
- Ambient light fixture
- Recessed 4" x 24" / 36" / 48" / 72" / 96" nominal lengths
- Versatile mounting trims for sheet rock with flange, sheet rock trimless mud-in, or grid ceiling types
- Snap-in acrylic lens provides uniform illumination
- Symmetric or Asymmetric light distributions available
- nLight® wired and wireless options
- IP64 and Wet Location standard, NSF Splash Zone 2 optional
- Optional RIF filter to comply with MIL-STD-461G

TYPICAL HEALTHCARE APPLICATIONS

- Nursing Stations, Hallways, Circulation Areas, Surgical Suite, Hybrid OR, Procedure Room



DIMENSIONS



PERFORMANCE DATA

Lumen Output

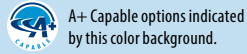
Lumen values are from photometric tests from an accredited laboratory. Data is considered to be representative of the configurations shown, within generally accepted industry tolerances.

Performance data based upon 48LONG/ASD/35K/90CRI

Ambient Nominal /FT	500LMF	750LMF	1000LMF	1300LMF
Distribution	ASD	ASD	ASD	ASD
Delivered Lumens/FT	594	836	1087	1348
Input Watts/FT	6	8	11	13
Lumens/Watt	108	105	104	106
Total Lumens 48LONG	2376	3345	4348	5392
Total Input Watts 48LONG	22	32	42	51

Performance data based upon 48LONG/SYD/35K/90CRI

Ambient Nominal /FT	500LMF	750LMF	1000LMF	1300LMF
Distribution	SYD	SYD	SYD	SYD
Delivered Lumens /FT	694	962	1269	1574
Input Watts /FT	6	8	11	13
Lumens/Watt	126	120	121	123
Total Lumens 48LONG	2775	3847	5077	6297
Total Input Watts 48LONG	22	32	42	51



CATALOG NUMBER

Example: HPL 48LONG G MVOLT ASD 1000LMF 30K 90CRI NLIGHT MIN1 MBKAM

Series	Size	Mounting	Voltage	Distribution	Output	Ambient LED Color Temperature
HPL Healthcare Patient Linear	24LONG 24" Nominal Length 36LONG¹ 36" Nominal Length 48LONG 48" Nominal Length 72LONG¹ 72" Nominal Length 96LONG 96" Nominal Length	F Flange G Grid GB Flangeless Sheetrock Mud-In	MVOLT 120-277 Volt	ASD Asymmetrical Distribution SYD Symmetrical Distribution	500LMF 500 Nominal Lumens per Foot 750LMF 750 Nominal Lumens per Foot 1000LMF 1000 Nominal Lumens per Foot 1300LMF 1300 Nominal Lumens per Foot	27K 2700 Kelvin 30K 3000 Kelvin 35K 3500 Kelvin 40K 4000 Kelvin 50K 5000 Kelvin

Ambient LED Color Rendering	Control Input	Minimum Dimming Level	EMI Filter	Emergency	Certification	Finish
90CRI 90CRI	DALI DALI NLIGHT NLIGHT enabled NLTAIR² NLIGHT Air (Wireless) Enabled ZT 0-10V control	DARK Constant Current, Dimming to <1% MIN1 Constant Current, Dimming to 1%	<Blank> Not Required RIF Radio Frequency Interference Filter	<Blank> Option Not Required EMG³ Emergency nLight device for use with generator supply EM power	<Blank> Option Not Required CP⁴ Chicago Plenum	BZAM Bronze Anti-Microbial GWAM Gloss White Antimicrobial MWAM Matte White Antimicrobial GBKAM Gloss Black Antimicrobial MBKAM Matte Blank Antimicrobial SIAM Silver Gloss Antimicrobial RALTBD RAL Paint Finish <i>RALTBD for pricing only. Replace w/ applicable RAL call out when ready to order. See the Architectural RAL Color Brochure for available options.</i> <i>NSF only available w/ GWAM and MWAM.</i>

Notes

1. Not available w/ 1300LMF
2. Requires MIN1
3. Requires NLIGHT
4. Not available with NLIGHT

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

SPECIFICATIONS

Housing

Extruded aluminum ceiling trim with cast aluminum endcaps and fabricated 18 gauge cold-rolled steel upper electronics channel housing.

Lens

Extruded 1/16" translucent acrylic snap-in lens.

Reflector

Formed painted steel with gloss white powder coat.

Distribution

Symmetric (SYD) with standard lens or 17.5° Asymmetric (ASD) distribution with standard lens and inner angled boards.

Finish

Painted in durable polyester powder coat paint with antimicrobial* additive. Available in six standard solid colors. Consult tech support for custom colors or specify RAL colors from Architectural RAL Color brochure.

*Antimicrobial properties are built in to inhibit the growth of bacteria that may affect this product. The antimicrobial properties do not protect users or others against bacteria, viruses, germs, or other pathogens.

Mounting

Three recessed ceiling only installation options available. Grid (G) mount for 9/16" or 15/16" lay-in or tegular grid ceiling systems. Flanged (F) mounting for post sheet rock install with above ceiling installation clip retention system for 1/2" (min) to 5/8" (max) drywall. Flangeless/trim-less sheet rock mud-in (GB) mounting for post sheet rock install secured to sheet rock. Reference installation instructions for more information.

Source

Multiple LED lumen packages provided for (5) static white color temperature options: 2700K, 3000K, 3500K, 4000K, or 5000K in 90CRI. All LED within a 2.5 step MacAdam ellipse.

LED Life

LED light engines consisting of multiple length linear boards. LED rated for 83,000 hours L80 at 25°C ambient temperature.

LED Driver

Driver provides smooth, continuous, flicker free dimming to dark <1%. THD < 20%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. Acuity luminaires incorporating eldoLED LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) outlined in IEEE Standard 1789-2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels. Driver will be set for Logarithmic or Linear dimming curve. Reference Intelligent Luminaire chart for specific setting based upon options selected.

Luminaire Surge Protection Level

Designed to withstand up to 2kV.

Voltage

120 through 277 VAC in 50 through 60Hz.

Emergency (Optional)

Optional emergency circuit (EMG) available.

Controls and System Networking Options

Optional integrated nLight® controls make each fixture addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors, and photocontrols. Connection to nLight is simple. It can be accomplished with remote nLight AIR wireless or through standard Cat-5 cabling. (cabling "by others") nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other, while nLight AIR is commissioned easily through an intuitive mobile app.

Fixture Weight

Weight may vary depending upon options or accessories selected.

SIZE	BASE	
	lbs	kg
24LONG	6.5	2.9
36LONG	9.0	4.1
48LONG	11.5	5.2
72LONG	16.5	7.5
96LONG	21.5	9.8

Environment

Wet location listed, IP64 rated from below fixture.

Ambient Operating Temperature

-20°C (-4° F) to +25°C (+77°F).

Ambient Operating Humidity

<80% relative humidity non-condensing

Certification

CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750) and CAN/CSA C22.2 No. 250.0.

IC rated. Certified for NSF Splash Zone 2.

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

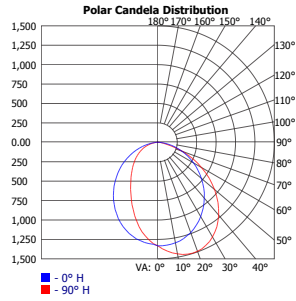
Specifications subject to change without notice.

PHOTOMETRICS

Lumen values are from photometric tests from an accredited laboratory. Data is considered to be representative of the configurations shown, within generally accepted industry tolerances.

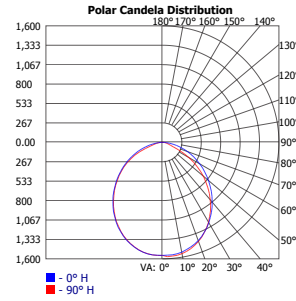
AMBIENT with Asymmetrical Distribution

Test Report: ISF 212120



AMBIENT with Symmetrical Distribution

Test Report: ISF 211938



*Performance data based upon 35K/90CRI

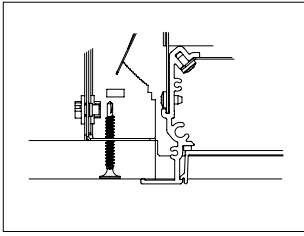
Ambient Nominal Lumens Per Foot	Size	Distribution	Total Delivered Lumens	Total Input Watts	Lumens/Watt	
500LMF	24LONG	ASD	1210	9	128	
		SYD	1386	9	147	
	36LONG	ASD	2035	16	124	
		SYD	2330	16	142	
	48LONG	ASD	2423	22	110	
		SYD	2775	22	126	
	72LONG	ASD	3978	33	121	
		SYD	4556	33	139	
	96LONG	ASD	5247	44	119	
		SYD	6009	44	136	
	750LMF	24LONG	ASD	1703	14	124
			SYD	1951	14	142
36LONG		ASD	2864	24	120	
		SYD	3280	24	137	
48LONG		ASD	3410	32	106	
		SYD	3905	32	122	
72LONG		ASD	5600	48	117	
		SYD	6413	48	134	
96LONG		ASD	7385	64	115	
		SYD	8458	64	132	
1000LMF	24LONG	ASD	2214	18	124	
		SYD	2536	18	142	
	36LONG	ASD	3724	31	120	
		SYD	4264	31	137	
	48LONG	ASD	4434	42	106	
		SYD	5078	42	122	
	72LONG	ASD	7281	62	117	
		SYD	8338	62	134	
	96LONG	ASD	9602	83	115	
		SYD	10996	83	132	
1300LMF	24LONG	ASD	2746	22	126	
		SYD	3145	22	144	
	48LONG	ASD	5498	51	107	
		SYD	6296	51	123	
	96LONG	ASD	11907	102	116	
		SYD	13636	102	133	

Lumen Multiplier Table for CCT & CRI

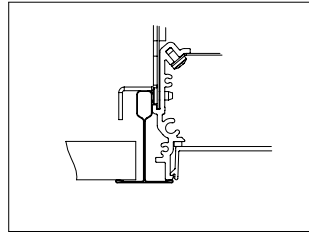
This table can be used to approximate the lumen values at different kelvin temperatures. Data table baseline is 3500K 90CRI photometry.

CCT	CRI	Scale Factor	Ra	R9	Rf	Rg
2700K	90	0.927	93	55	90	97
3000K	90	0.953	95	57	92	99
3500K	90	1.000	95	63	90	98
4000K	90	1.009	95	62	90	97
5000K	90	1.050	94	61	90	98

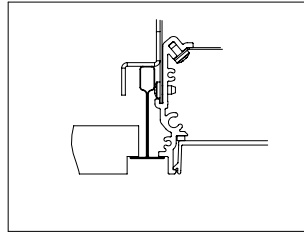
CEILING TRIM



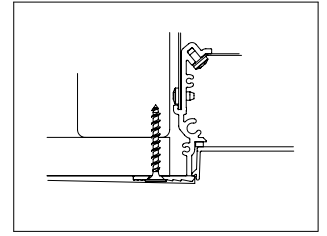
F
(Flanged Sheetrock)



G
(15/16" Grid)



G
(9/16" Grid)

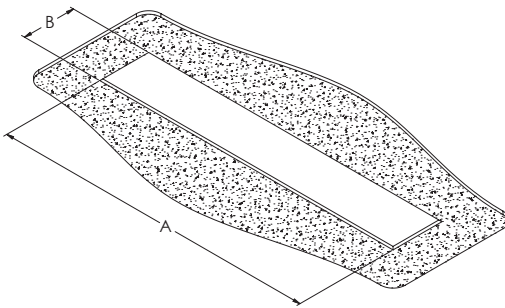


GB
(Flangeless Sheetrock Mud-In)

MOUNTING

Rough-In Dimensions F and GB Ceiling Trims

*For more mounting information, please reference the installation instructions.

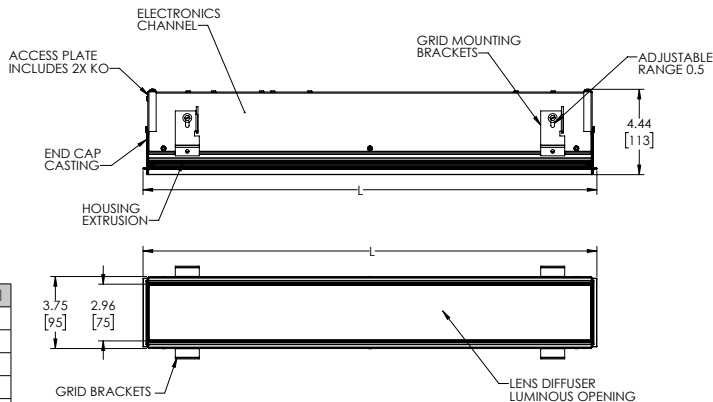
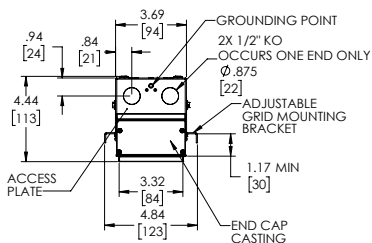
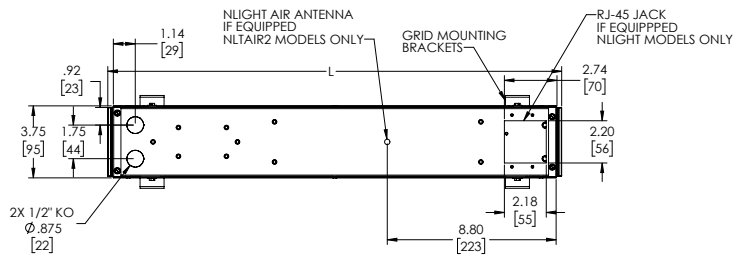
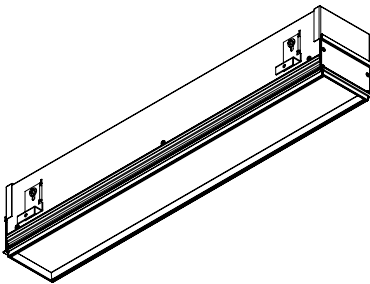


SIZE	TRIM STYLE	A	B	ALLOWANCE
24LONG	F	23.50 in	4.000 in	+/- 1/8"
36LONG	F	35.50 in	4.000 in	+/- 1/8"
48LONG	F	47.50 in	4.000 in	+/- 1/8"
72LONG	F	71.50 in	4.000 in	+/- 1/8"
96LONG	F	95.50 in	4.000 in	+/- 1/8"

SIZE	TRIM STYLE	A	B	ALLOWANCE
24LONG	GB	24.125 in	3.875 in	+/- 1/8"
36LONG	GB	36.125 in	3.875 in	+/- 1/8"
48LONG	GB	48.125 in	3.875 in	+/- 1/8"
72LONG	GB	72.125 in	3.875 in	+/- 1/8"
96LONG	GB	96.125 in	3.875 in	+/- 1/8"

DIMENSIONS

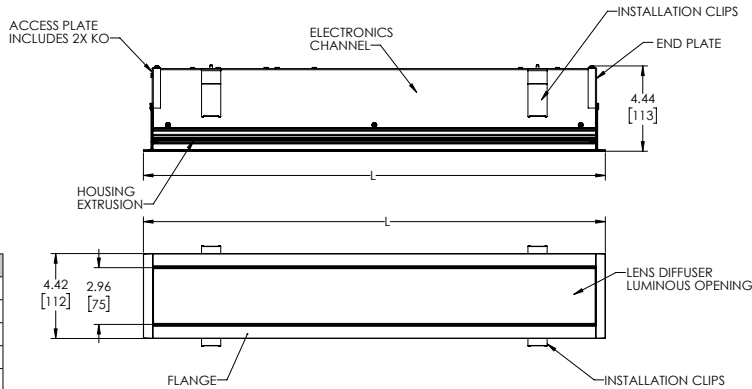
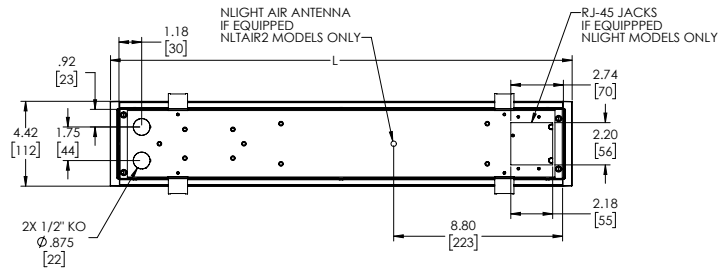
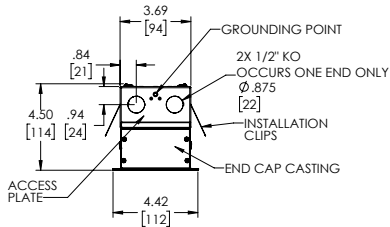
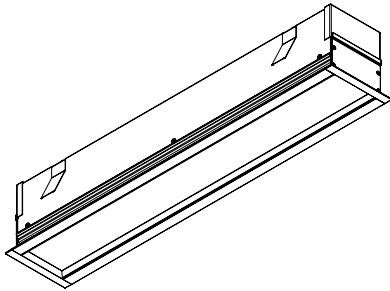
G Grid



SIZE	MOUNTING	L (OVERALL LENGTH) IN	L (OVERALL LENGTH) MM
24 LONG	G	23.64	600
36LONG	G	35.64	905
48LONG	G	47.64	1210
72LONG	G	71.64	1820
96LONG	G	95.64	2429

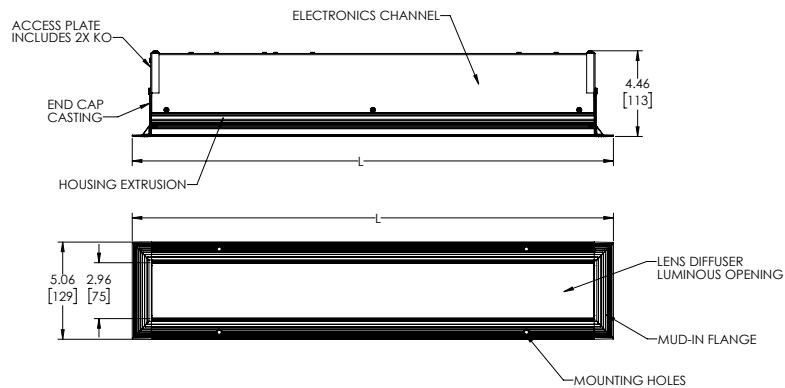
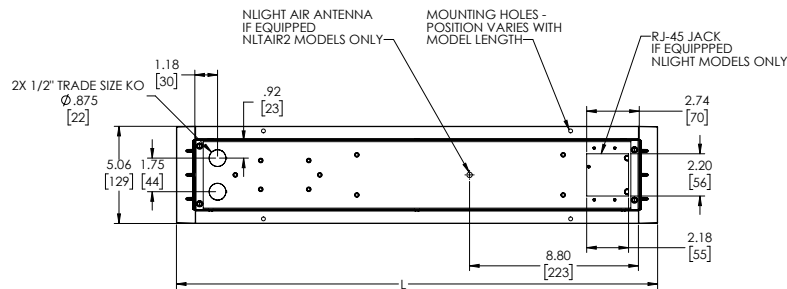
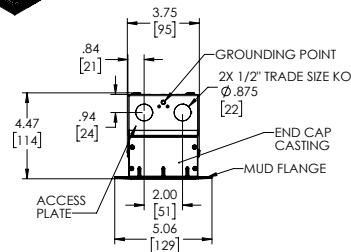
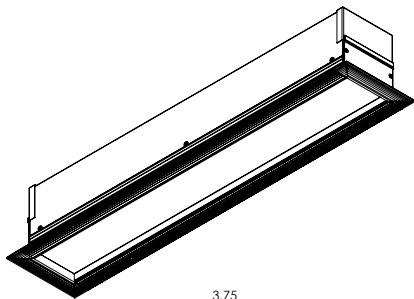
DIMENSIONS

F Flange



SIZE	MOUNTING	L (OVERALL LENGTH) IN	L (OVERALL LENGTH) MM
24LONG	F	24.06	611
36LONG	F	36.06	916
48LONG	F	48.06	1221
72LONG	F	72.06	1830
96LONG	F	96.06	2440

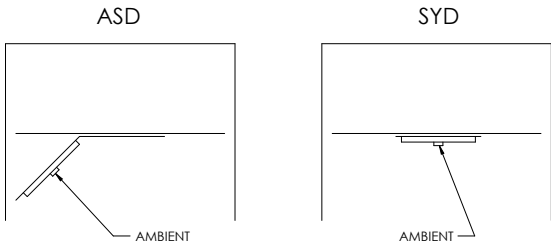
GB Trimless Mud-In



SIZE	MOUNTING	L (OVERALL LENGTH) IN	L (OVERALL LENGTH) MM
24LONG	GB	25.06	637
36LONG	GB	37.06	941
48LONG	GB	49.06	1246
72LONG	GB	73.06	1856
96LONG	GB	97.06	2465

LED SCHEMATIC

Schematic simplification of lighting options within luminaire, viewed in cross section, facing headwall.



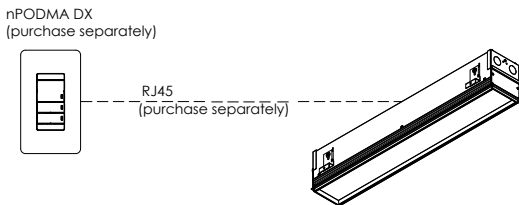
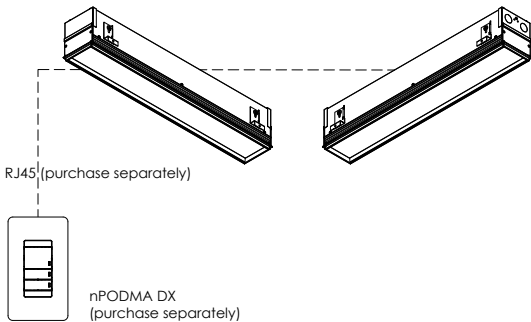
INTELLIGENT LUMINAIRE TECHNOLOGY GUIDE

Choose Nomenclature from these columns

Minimum Dimming Level	Control Input	Dimming Range	Notes
MIN1	+ ZT	= 100 to 1%	LINEAR DIMMING, TO BE WIRED TO 0-10V CONTROL
MIN1	+ DALI	= 100 to 1%	LINEAR DIMMING, TO BE WIRED TO DALI CONTROL
MIN1	+ NLIGHT	= 100 to 1%	LOGARITHMIC DIMMING, NIO EZ PH
MIN1	+ NLTAIR2	= 100 to 1%	LINEAR DIMMING, RIO EZDL ACWH 90 G2 ANTENNA ON BACK OF LUMINAIRE
DARK	+ ZT	= 100 to 0.1%	LINEAR DIMMING, TO BE WIRED TO 0-10V CONTROL
DARK	+ DALI	= 100 to 0.1%	LOGARITHMIC DIMMING, TO BE WIRED TO DALI CONTROL
DARK	+ NLIGHT	= 100 to 0.1%	LOGARITHMIC DIMMING, NIO EZ PH

WALL POD

Reference spec sheet for nPODMA for complete ordering nomenclature. Diagrams shown are NLight only

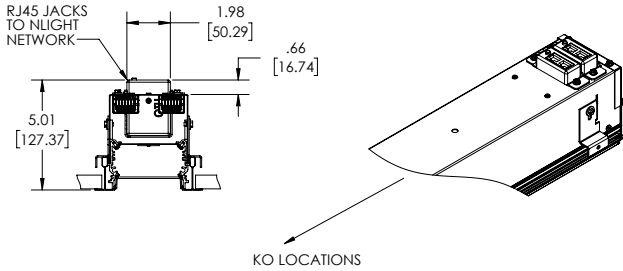


NLIGHT & NLTAIR2 DETAILS

NLIGHT (Wired) Enabled Network

RJ45 Jack Location

Typical for all mounting styles (Grid mount shown for reference.)

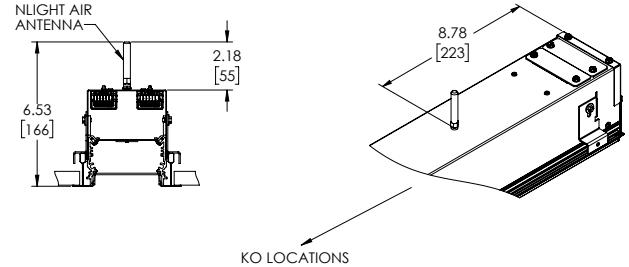


29.4 RJ45 JACK DETAIL (ISO)
NLIGHT MODELS

NLTAIR2 (Wireless) Enabled Network

Antenna Location

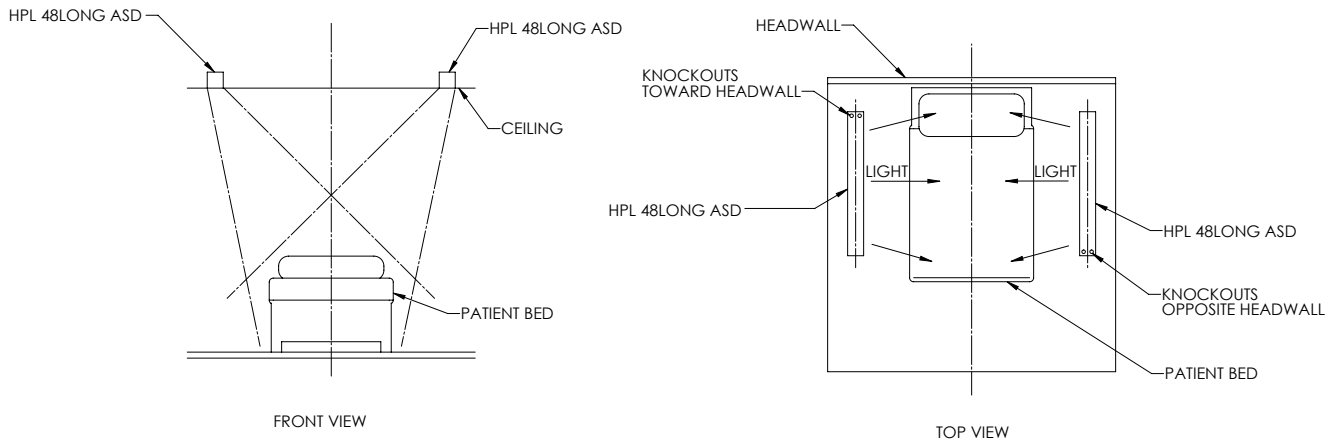
Typical for all mounting styles (Grid mount shown for reference.)



29.2 ANTENNA LOCATION DETAIL (ISO)
NLIGHTAIR2 MODELS

LAYOUT

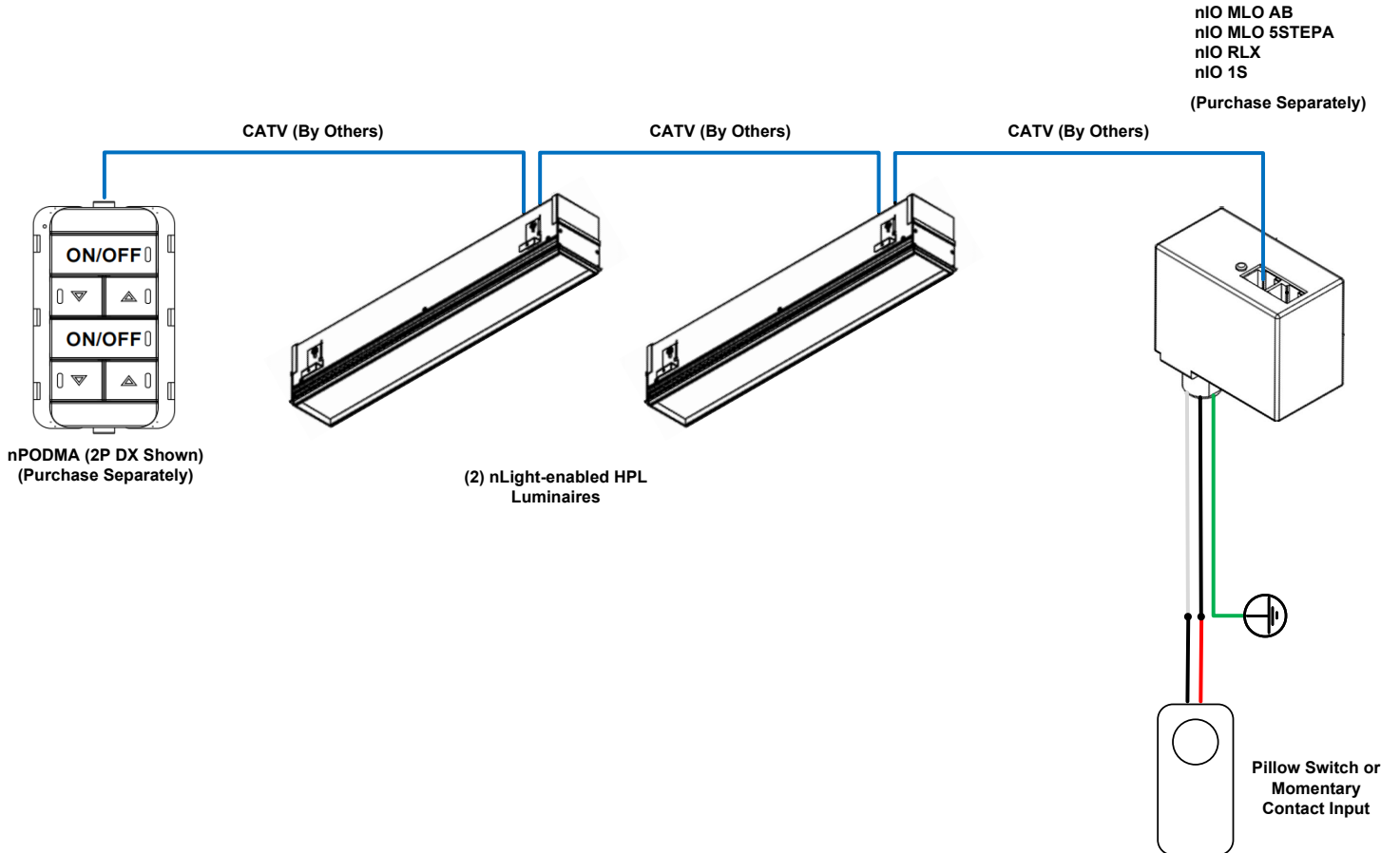
Diagram "Not to Scale"



PILLOW SWITCH INTEGRATION

NLIGHT

To control Ambient, Exam, or Reading functions via pillow switch with nLight-enabled HPL luminaires, specify nLight "switch input" nIO devices. Common scenarios are detailed below. One or more nIOs may be combined with one or multiple luminaires. Additional configurations are possible, which may require commissioning. Consult factory or refer to device specification sheets for additional details



Example system configuration. Luminaire functions may be controlled by wall station and switches.

To adjust the ambient light level via ramp dimming, connect the pillow switch to a [nIO RLX](#).

Switch Input	Ambient
Press > 0.5s	Ramp dim 0%-100%