

- Ambient light fixture with secondary function
- 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
- 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

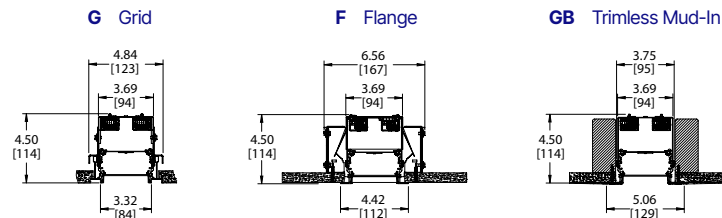
TYPICAL APPLICATIONS

Patient Room, Surgical Suite, Hybrid OR, Procedure Room, Recovery Room



Dimensions

*Reference Drawing Detail section for additional information



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/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

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

Catalog Number

Example: HPL 48LONG G MVOLT ASD 1000LMF 30K 90CRI NLIGHT MIN1 RC30K MBKAM

Series	Size	Distribution	Output	Mounting
HPL Healthcare Patient Linear	24LONG 24" Nominal Length	ASD Asymmetrical Distribution	500LMF 500 Nominal Lumens per Foot	F Flange
	36LONG ¹ 36" Nominal Length	SYD Symmetrical Distribution	750LMF 750 Nominal Lumens per Foot	G Grid
	48LONG 48" Nominal Length		1000LMF 1000 Nominal Lumens per Foot	GB Flangeless Sheetrock Mud-In
	72LONG ¹ 72" Nominal Length		1300LMF 1300 Nominal Lumens per Foot	
	96LONG 96" Nominal Length			

Voltage	Ambient LED Color Temperature	Ambient LED Color Rendering	Control Input	Minimum Dimming Level
MVOLT 120-277 Volt	27K 2700 Kelvin	90CRI 90CRI	DALI DALI	DARK Constant Current, Dimming to <1% MIN1 Constant Current, Dimming to 1%
	30K 3000 Kelvin		NLIGHT ² NLIGHT enabled	
	35K 3500 Kelvin		NLTAIR2 ^{3,4,5} NLIGHT Air Enabled	
	40K 4000 Kelvin		NLIGHTER ² Emergency nLight Device for use w/ Generator Supply EM Power	
	50K 5000 Kelvin		NLTAIR2EM ^{3,4,5} nLight enabled with lumen management, for use with generator supply EM power	
			ZT 0-10V control	
			Pillow Switch and LVC Integration For assistance with selecting control input and sequence of operations for pillow switch, see guide on page 9.	

Reading Light ⁴	Night Light ⁵	EMI Filter	Certification	Finish
[Blank] Not Required	[Blank] Not Required	[Blank] Not Required	[Blank] Not Required	BZAM Bronze Antimicrobial
RC27K 2700 Kelvin Reading Light	ANL Amber Night Light	RIF Radio Frequency Interference Filter	CP Chicago Plenum	GWAM Gloss White Antimicrobial
RC30K 3000 Kelvin Reading Light	RNL Red Night Light			MWAM Matte White Antimicrobial
RC35K 3500 Kelvin Reading Light	NL27K 2700 Kelvin Night Light			GBKAM Gloss Black Antimicrobial
RC40K 4000 Kelvin Reading Light	NL30K 3000 Kelvin Night Light			MBKAM Matte Black Antimicrobial
RC50K 5000 Kelvin Reading Light (Reading Light is an Asymmetrical Distribution)	NL35K 3500 Kelvin Night Light			SIAM Gloss Silver Antimicrobial
	NL40K 4000 Kelvin Night Light			RALTBD RAL Paint Finish
	NL50K 5000 Kelvin Night Light (Night Light is a Symmetrical Distribution)			<i>*RALTBD for pricing only. Replace with applicable RAL call out when ready to order. See the Architectural RAL Color Brochure for available options. NSF only available w/ GWAM and MWAM.</i>

Notes

1. Not available with 1300LMF
2. Not available with CP
3. Requires MIN1
4. Not available with Night Light
5. Not available with Reading Light

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 86,000 hours L70 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 (NLIGHTER) 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 through standard Cat-5 cabling. (cabling "by others") nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other.

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. Complies with MIL-STD-461G CE102.

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

Notes:

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.

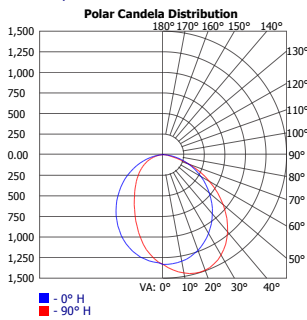
Specifications subject to change without notice.

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.

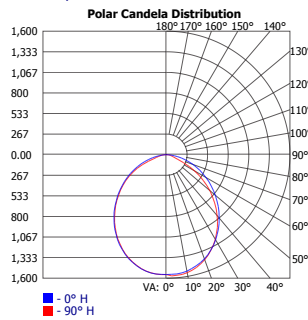
AMBIENT with Asymmetrical Distribution

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
500LMF	24LONG	ASD	1187	9
		SYD	1364	9
	36LONG	ASD	1996	16
		SYD	2293	16
	48LONG	ASD	2376	22
		SYD	2730	22
750LMF	24LONG	ASD	1670	14
		SYD	1920	14
	36LONG	ASD	2809	24
		SYD	3228	24
	48LONG	ASD	3345	32
		SYD	3843	32
1000LMF	24LONG	ASD	5492	48
		SYD	6311	48
	36LONG	ASD	7243	62
		SYD	8323	62
	48LONG	ASD	7141	62
		SYD	8205	62
1300LMF	24LONG	ASD	9417	83
		SYD	10821	83
	36LONG	ASD	2693	22
		SYD	3095	22
	48LONG	ASD	5392	51
		SYD	6196	51
	96LONG	ASD	11678	102
		SYD	13418	102

Lumen Multiplier Table for CCT & CRI

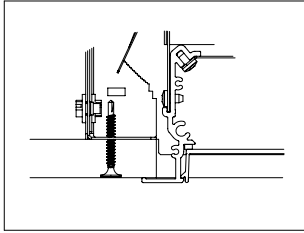
This table can be used to approximate the lumen values at different kelvin temperatures. Data table baseline is 3500K 90CRI photometry.

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

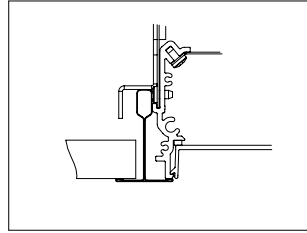
*Performance data based upon 48LONG/MULTI/90CRI/RC

Ambient Nominal Lumens/FT	Function	Total Delivered Lumens 48LONG					Total Input Watts 48LONG
		CCT					
500LMF	Ambient Only	27K	30K	35K	40K	50K	21
		2264	2325	2441	2464	2564	
	Ambient + Exam	27K	30K	35K	40K	50K	42
		4226	4341	4557	4600	4787	
	Reading Light Only	RC27K	RC30K	RC35K	RC40K	RC50K	22
		2247	2308	2423	2446	2545	
Night Light Only	NL27K	NL30K	NL35K	NL40K	NL50K	22	
	2573	2643	2775	2801	2915		
750LMF	Ambient Only	27K	30K	35K	40K	50K	30
		3162	3248	3409	3441	3581	
	Ambient + Exam	27K	30K	35K	40K	50K	60
		5903	6064	6365	6425	6686	
	Reading Light Only	RC27K	RC30K	RC35K	RC40K	RC50K	32
		3163	3249	3410	3442	3582	
Night Light Only	NL27K	NL30K	NL35K	NL40K	NL50K	32	
	3622	3721	3905	3942	4102		

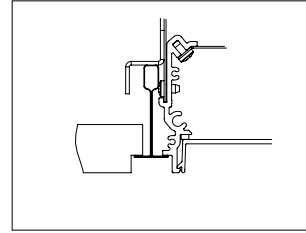
Ceiling Trim



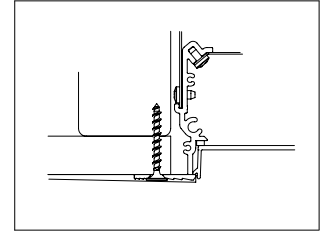
F
(Flanged Sheetrock)



G
(15/16" Grid)



G
(9/16" Grid)

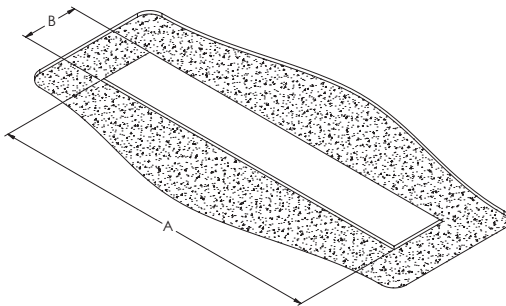


GB
(Flangeless Sheetrock Mud-In)

Mounting

Rough-In Dimensions F and GB Ceiling Trims

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

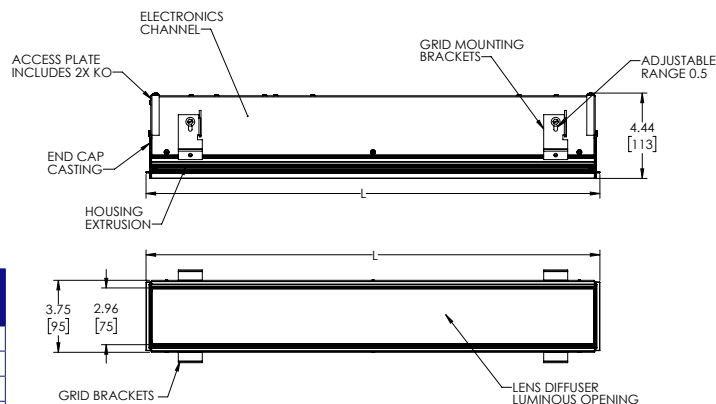
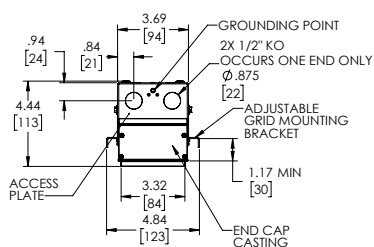
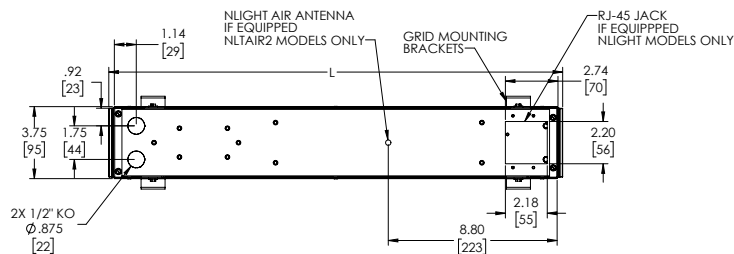
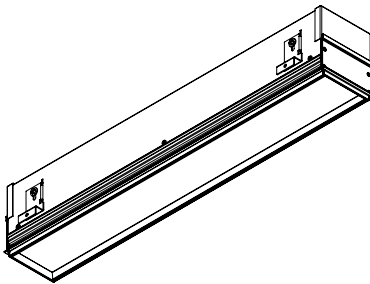


SIZE	TRIM STYLE	A	B	ALLOWANCE
24LONG	F	23.50 in	4.000 in	+/- 1/8"
36LONG	F	35.50 in	4.000 in	+/- 1/8"
48LONG	F	47.50 in	4.000 in	+/- 1/8"
72LONG	F	71.50 in	4.000 in	+/- 1/8"
96LONG	F	95.50 in	4.000 in	+/- 1/8"

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

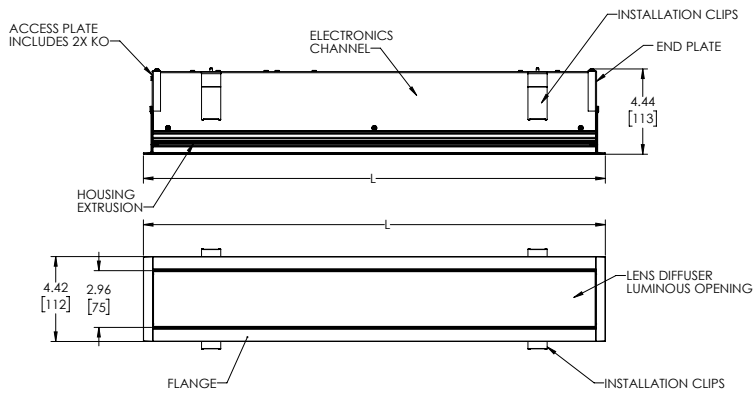
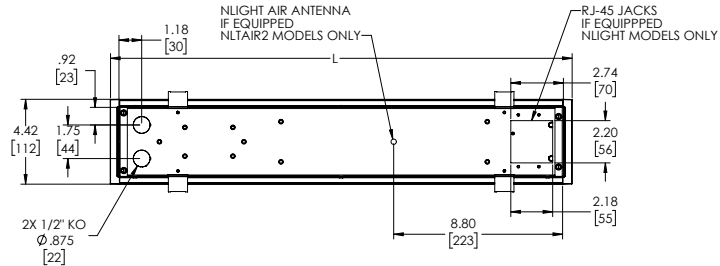
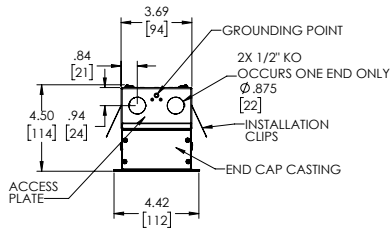
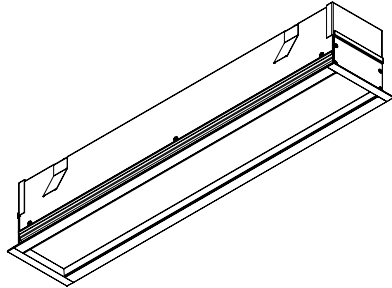
G Grid



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

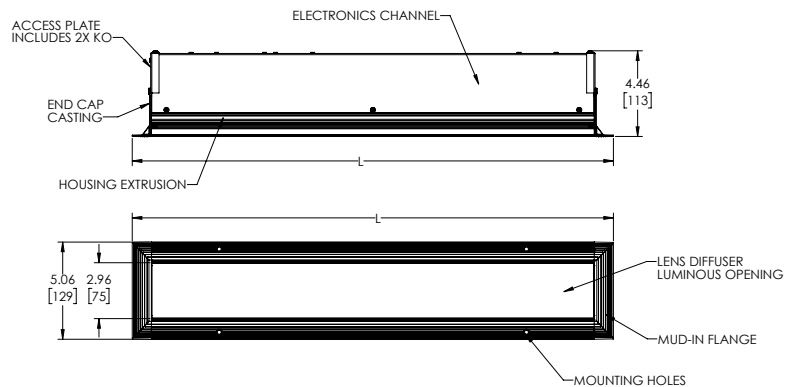
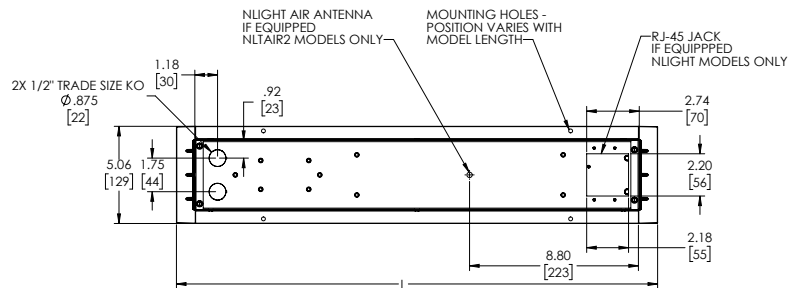
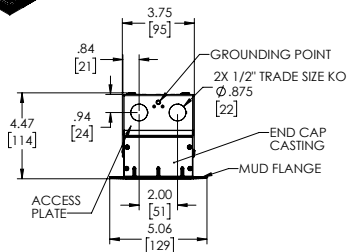
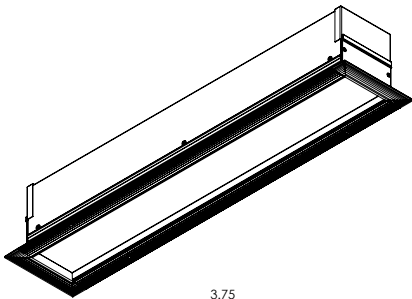
Dimensions

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

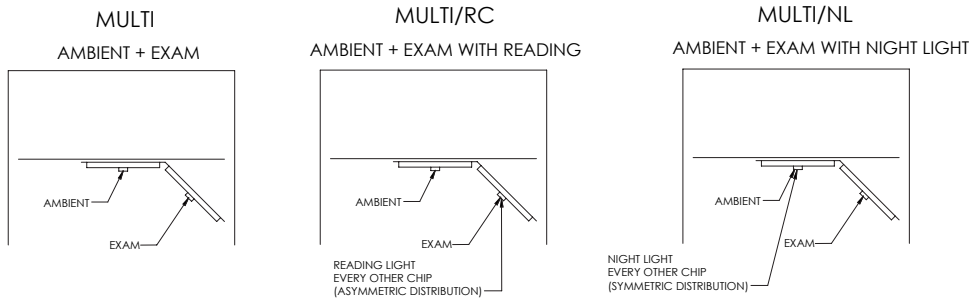
GB Trimless Mud-In



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.



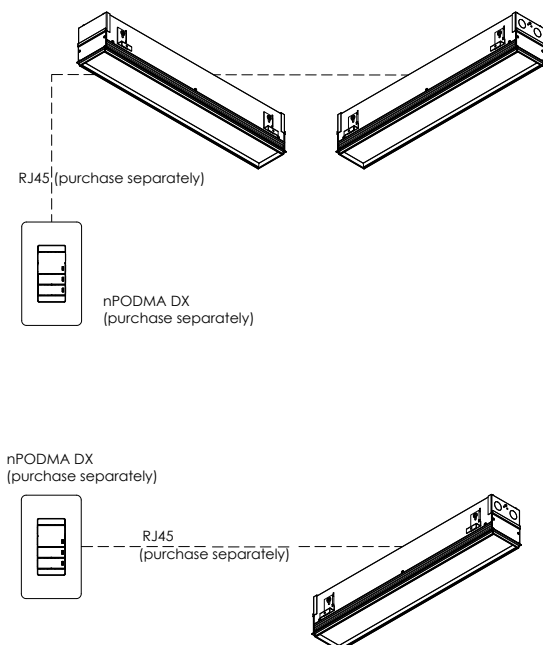
Intelligent Luminaire Technology Guide

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	+	NLTAR2	=	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.

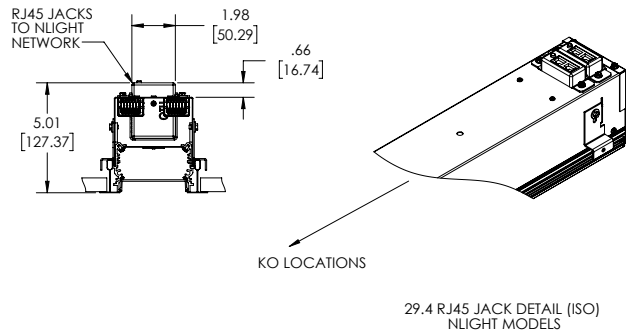


NLight

NLIGHT (Wired) Enabled Network

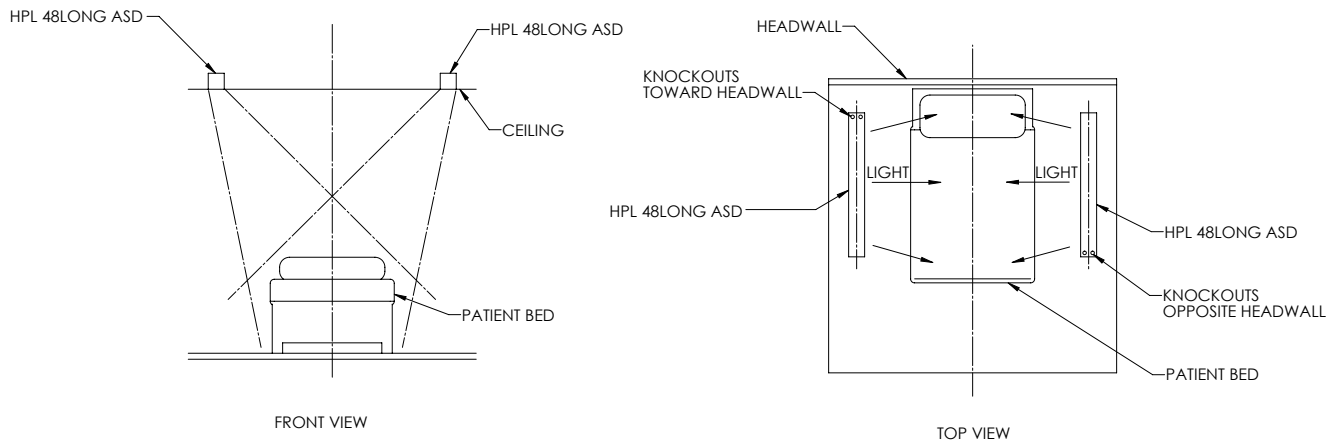
RJ45 Jack Location

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



Layout

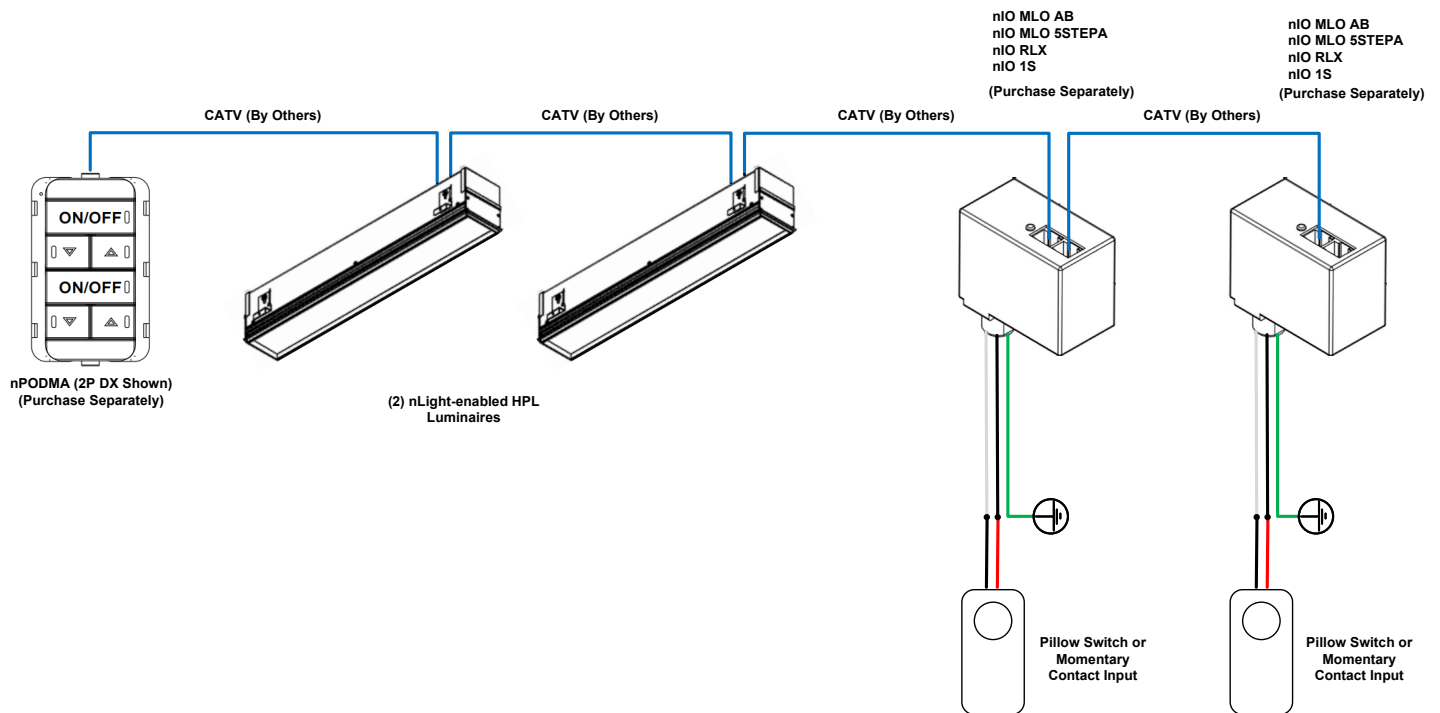
Diagram "Not to Scale"



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 step dimming, connect the pillow switch to a nIO MLO 5STEPA:

Switch Input	Ambient	Reading	Exam
Press 1	20%	No change	No change
Press 2	50%	No change	No change
Press 3	80%	No change	No change
Press 4	100%	No change	No change
Press 5	OFF	No change	No change

To switch between the Ambient and Reading functions, connect one pillow switch input to a nIO MLO AB:

Switch Input	Ambient	Reading	Exam
Press 1	ON	OFF	No change
Press 2	OFF	ON	No change
Press 3	ON	ON	No change
Press 4	OFF	OFF	No change

To adjust the ambient light level via ramp dimming, connect the pillow switch to a nIO RLX:

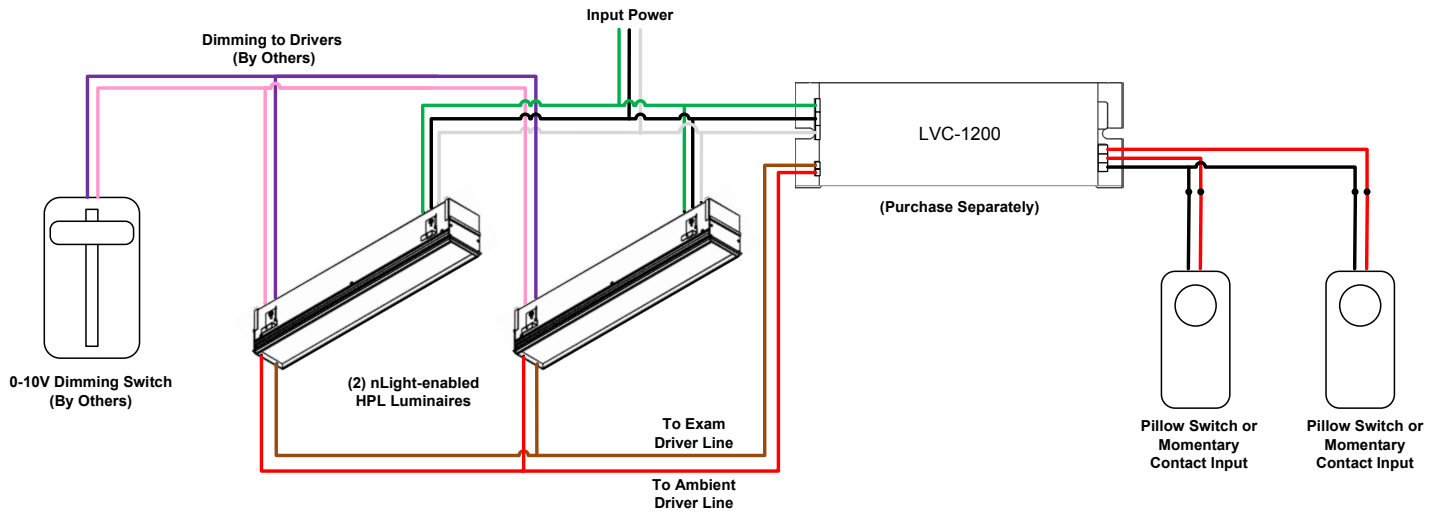
Switch Input	Ambient	Reading	Exam
Press > 0.5s	Ramp dim 0%-100%	No change	No change

To enable switch or push-button control of the Exam function, connect the exam switch to a nIO 1S:

Switch Input	Ambient	Reading	Exam
Press 1	No change	No change	ON
Press 2	No change	No change	OFF

ZT, DALI

Use the LVC1200 Low Voltage Controller (sold separately) to control up to two functions (Ambient/Exam, Ambient/Reading, etc) via pillow switch input. The LVC1200 performs line-voltage switching of single, pair, or zone of luminaires up to 8 Amps. Example implementations are shown below, other configurations are possible. Consult factory or refer to device specification sheets for additional details.



Example system configuration. Luminaire functions are toggled via pillow switch, 0-10V dimming possible by wall switch or other typical means.

To control Ambient and Exam functions via a single pillow switch, connect one switch across pins 5,6 on the LVC1200 (refer to specification sheet for additional wiring details):

Switch Input	Ambient	Reading	Exam
Press 1	ON	No change	OFF
Press 2	OFF	No change	ON
Press 3	ON	No change	ON
Press 4	OFF	No change	OFF

To control Ambient and Reading functions separately, connect two pillow switch inputs to pins 4,5,6 on the LVC1200 (refer to specification sheet for additional wiring details):

Switch Input 1	Switch Input 2	Ambient	Reading	Exam
Press 1	-	ON	No change	No change
Press 2	-	OFF	No change	No change
-	Press 1	No change	No change	ON
-	Press 2	No change	No change	OFF