Nightingale™

Single Function Recessed
Warm Dimming Luminaire

HPL

Catalogue #

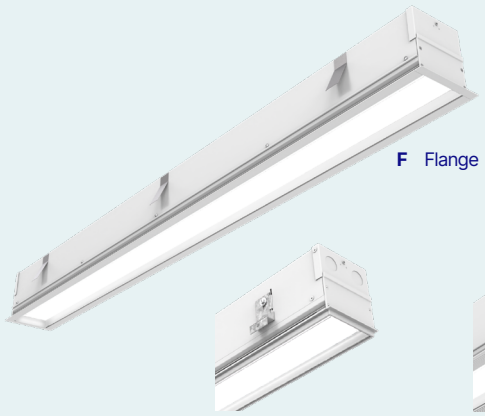
Date

Project

- Single function ambient light fixture with warm dimming capabilities from 3000Kto 1800K
- 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® nTune wired interface
- IP64 Wet Location standard, NSF Splash Zone 2 optional

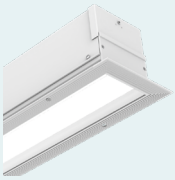
TYPICAL APPLICATIONS

NICU, Long Term Care, Memory Care, Senior Living



F Flange

G Grid

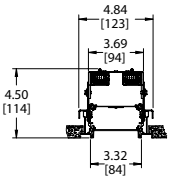


GB Flangless Mud-In

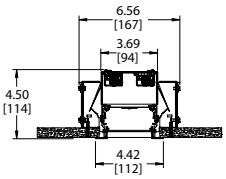
Dimensions

*Reference Drawing Detail section for additional information

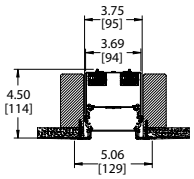
G Grid



F Flange



GB Trimless Mud-In





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/HALR(30K)/90CRI

Ambient Nominal Lumens/FT	500LMF		750LMF		1000LMF		1300LMF	
Distribution	ASD	SYD	ASD	SYD	ASD	SYD	ASD	SYD
Delivered Lumens/FT	533	613	780	896	998	1147	1210	1386
Input Watts/FT	7	7	10	10	14	14	17	17
Lumens/Watt	76	88	76	87	74	85	73	84
Total Lumens 48LONG	2132	2450	3118	3583	3993	4588	4748	5456
Total Input Watts 48LONG	28	28	41	41	54	54	66	66

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Catalog Number

Example: HPL 24LONG SYD 750LMF G MVOLT WDIM HALR NLT DARK SIAM

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	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[2]	96" Nominal Length						

Voltage		Dynamic Feature		Dynamic Range		Ambient LED Color Rendering		Control Input		Minimum Dimming Level	
MVOLT	120-277 Volt	**WDIM**	Warm Dimming	**HALR**	Halogen Range (1800K-3000K)	**90CRI**	90CRI	**NLT**	nLight nTune Interface	**DARK**	Constant Current, Dimming to <1%

Finish	
BZAM	Bronze Antimicrobial
GWAM	Gloss White Antimicrobial
MWAM	Matte White Antimicrobial
GBKAM	Gloss Black Antimicrobial
MBKAM	Matte Black Antimicrobial
SIAM	Gloss Silver Antimicrobial
RALTBD	RAL Paint Finish

**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.

Notes

1. Not available with 1300LMF
2. Not available with 1000LMF or 1300LMF

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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 ½" (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 Halogen (HALR) range of 3000k-1800k in 90CRI. All endpoints falling within 2.5 step MacAdam ellipses.

LED Life
LED rated for >60,000 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 dimming curve.

Luminaire Surge Protection Level
Designed to withstand up to 2kV.

Voltage
120 through 277 VAC in 50 through 60Hz.

Emergency (Optional)
Optional emergency circuit (NLTEMG) available.

Mainstream Dynamic with nTune Technology
This luminaire is enabled with nTune technology, meaning it has the ability to communicate digitally over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of timeclock control, remote status monitoring, and control via SensorView software.

Controls and System Networking Options
Wired networking via Cat-5e (by others).

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

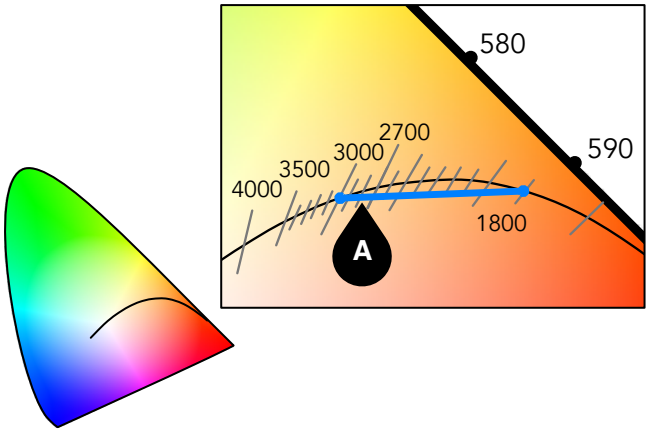
Certification
CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750) and CAN/CSA C22.2 No. 250.0. IC rated. Certified for NSF Splash Zone 2.

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

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.

Warm Dimming Gamut and Range



A Halogen Range 3000K to 1800K

Warm Dimming GPHD
- **Gamut:** One dimensional Warm-Cool (WiC)
- **Path:** Straight line 3000K to 1800K (Halogen Range)
- **Handle:** One Handle: Intensity (with implicit CCT)
- **Data:** nLight with nTune technology for intensity control

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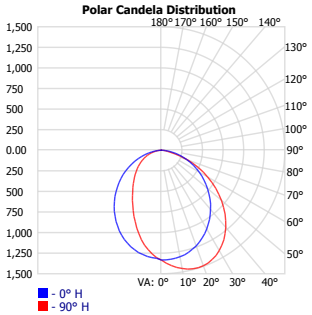
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Photometrics

Consult www.acuitybrands.com for photometry.
Photometric data based on test results from an independent NIST traceable testing lab. IES data is available at www.healthcare-lighting.com.
Always refer to our website for the latest IES file updates.

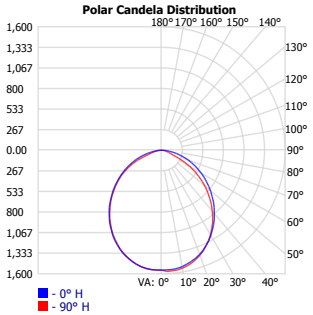
AMBIENT with Asymmetrical Distribution

Test Report: ISF 212120



AMBIENT with Symmetrical Distribution

Test Report: ISF 211938

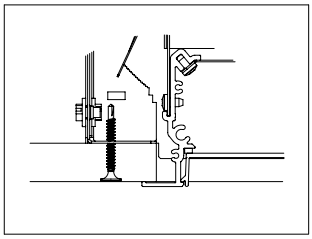


*Performance data based upon HALR/90CRI

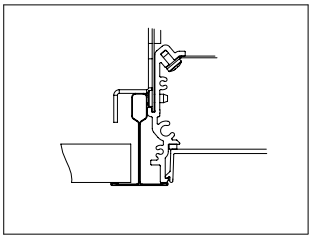
Nominal Lumens Per Foot	Size	Distribution	Total Delivered Lumens	Total Input Watts	Lumens/ Watt
500LMF	24LONG	ASD	874	12	72
		SYD	1000	12	82
	36LONG	ASD	1488	21	70
		SYD	1704	21	81
	48LONG	ASD	2174	28	76
		SYD	2490	28	88
	72LONG	ASD	3045	42	72
		SYD	3487	42	82
	96LONG	ASD	4015	57	71
		SYD	4598	57	81
750LMF	24LONG	ASD	1278	18	73
		SYD	1463	18	83
	36LONG	ASD	2176	31	71
		SYD	2493	31	81
	48LONG	ASD	3179	41	77
		SYD	3641	41	88
	72LONG	ASD	4453	61	73
		SYD	5099	61	83
	96LONG	ASD	5872	83	71
		SYD	6725	83	81
1000LMF	24LONG	ASD	1636	23	71
		SYD	1874	23	82
	36LONG	ASD	2787	40	70
		SYD	3192	40	80
	48LONG	ASD	4071	54	76
		SYD	4662	54	87
1300LMF	24LONG	ASD	1945	28	69
		SYD	2228	28	79
	36LONG	ASD	3314	49	68
		SYD	3795	49	77
	48LONG	ASD	4841	66	74
		SYD	5544	66	84

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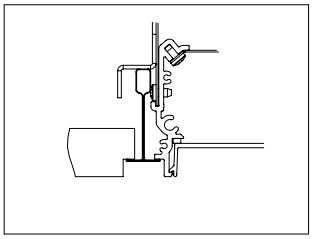
Ceiling Trim



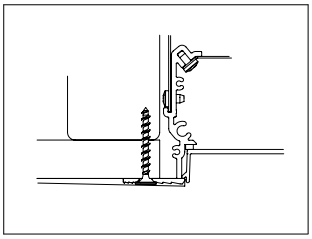
F
(Flanged Sheetrock)



G
(15/16" Grid)



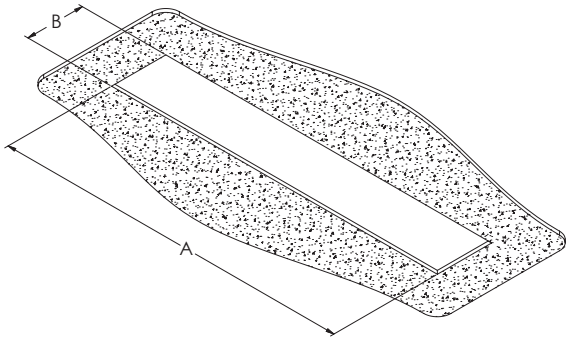
G
(9/16" Grid)



GB
(Flangeless Sheetrock Mud-In)

Mounting

Rough-In Dimensions F and GB Ceiling Trims
*For more mounting information, please reference the installation instructions.

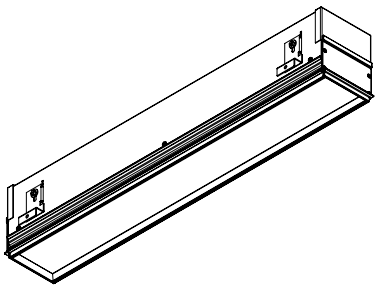


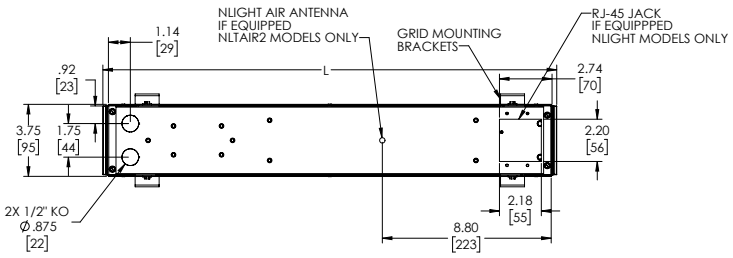
SIZE	TRIM STYLE	A	B	ALLOWANCE
24LONG	F	23.50 in	4.000 in	+/- 1/8"
36LONG	F	35.50 in	4.000 in	+/- 1/8"
48LONG	F	47.50 in	4.000 in	+/- 1/8"
72LONG	F	71.50 in	4.000 in	+/- 1/8"
96LONG	F	95.50 in	4.000 in	+/- 1/8"

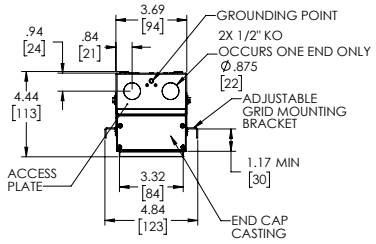
SIZE	TRIM STYLE	A	B	ALLOWANCE
24LONG	GB	24.125 in	3.875 in	+/- 1/8"
36LONG	GB	36.125 in	3.875 in	+/- 1/8"
48LONG	GB	48.125 in	3.875 in	+/- 1/8"
72LONG	GB	72.125 in	3.875 in	+/- 1/8"
96LONG	GB	96.125 in	3.875 in	+/- 1/8"

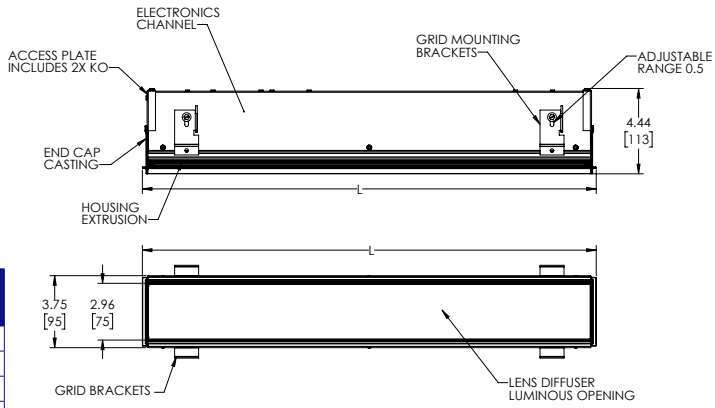
Dimensions

G Grid









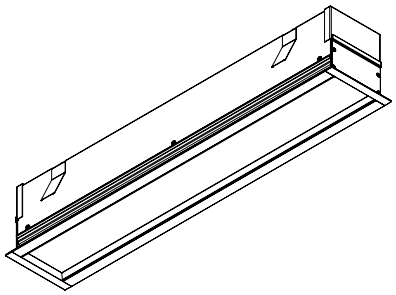
SIZE	MOUNTING	L (OVERALL LENGTH) IN	L (OVERALL LENGTH) MM
24LONG	G	23.64	600
36LONG	G	35.64	905
48LONG	G	47.64	1210
72LONG	G	71.64	1820
96LONG	G	95.64	2429

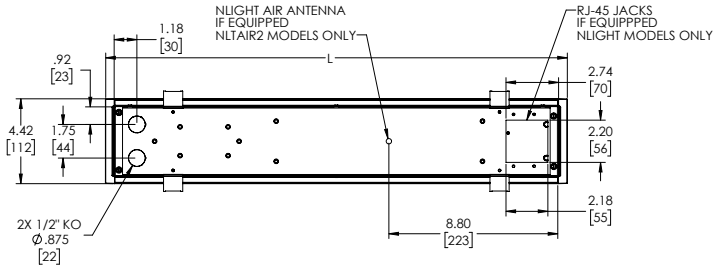
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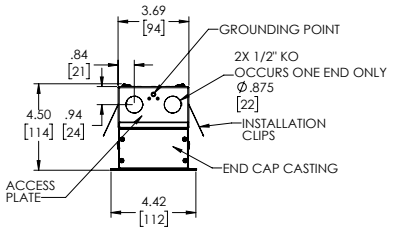
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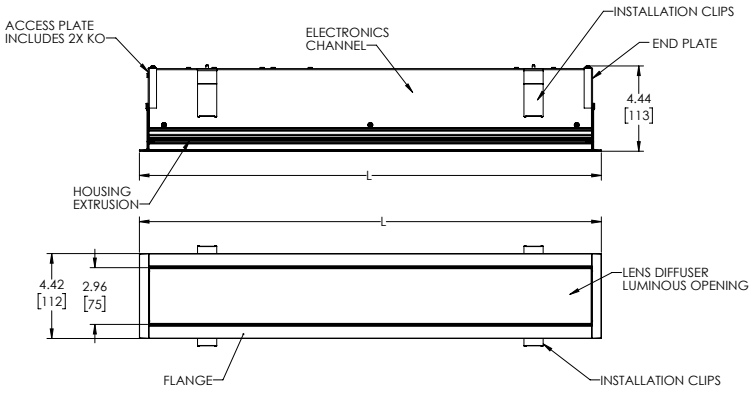
Dimensions

F Flange



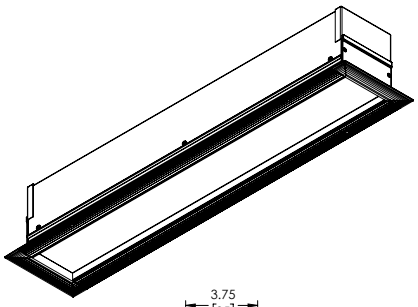


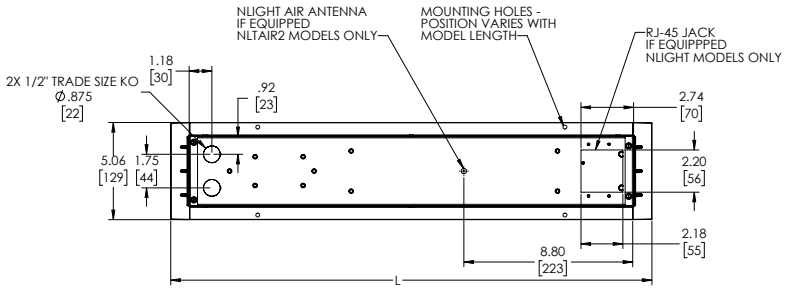


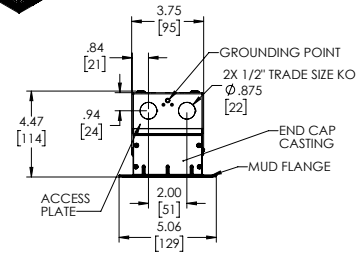


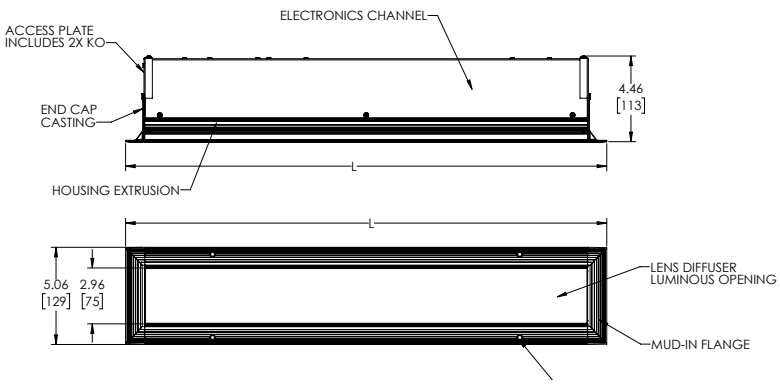
SIZE	MOUNTING	L (OVERALL LENGTH) IN	L (OVERALL LENGTH) MM
24LONG	F	24.06	611
36LONG	F	36.06	916
48LONG	F	48.06	1221
72LONG	F	72.06	1830
96LONG	F	96.06	2440

GB Trimless Mud-In









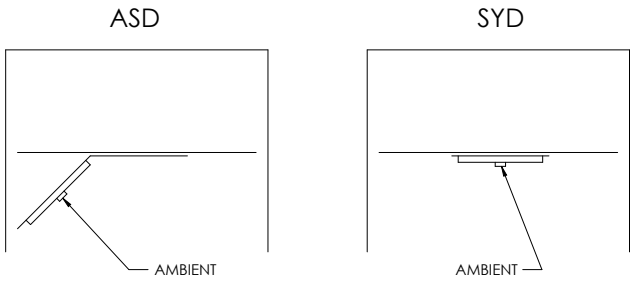
SIZE	MOUNTING	L (OVERALL LENGTH) IN	L (OVERALL LENGTH) MM
24LONG	GB	25.06	637
36LONG	GB	37.06	941
48LONG	GB	49.06	1246
72LONG	GB	73.06	1856
96LONG	GB	97.06	2465

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LED Schematic

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



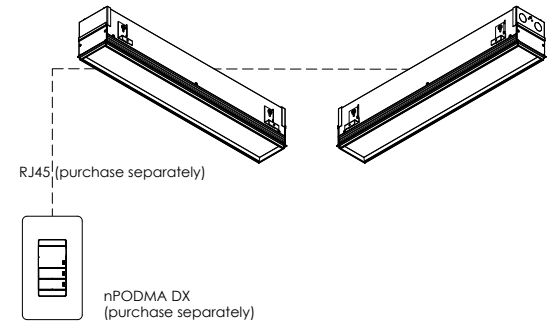
Intelligent Luminaire Technology Guide

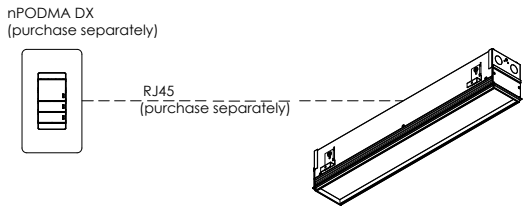
Choose Nomenclature from these columns

Minimum Dimming Level		Control Input		Dimming Range	Notes
DARK	+	NLT	=	100 to 0.1%	WDIM OPTION LINEAR DIMMING, NIO EZ PH INTERNAL

WALL POD

Reference spec sheet for nPODMA for complete ordering nomenclature.



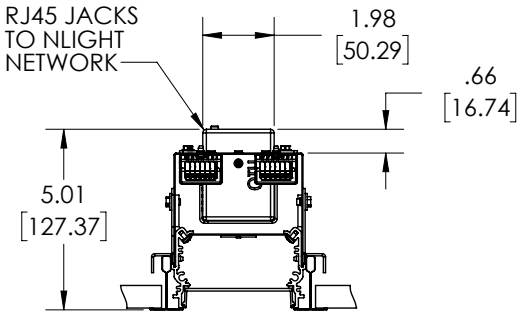


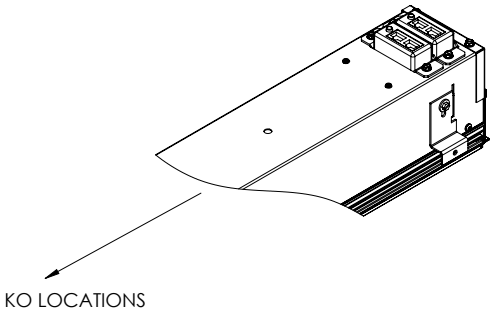
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NLT Details

NLT (Wired) Enabled Network
RJ45 Jack Location
Typical for all mounting styles (Grid mount shown for reference.)

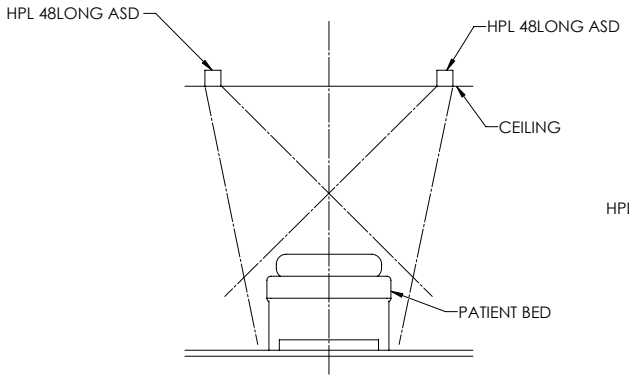




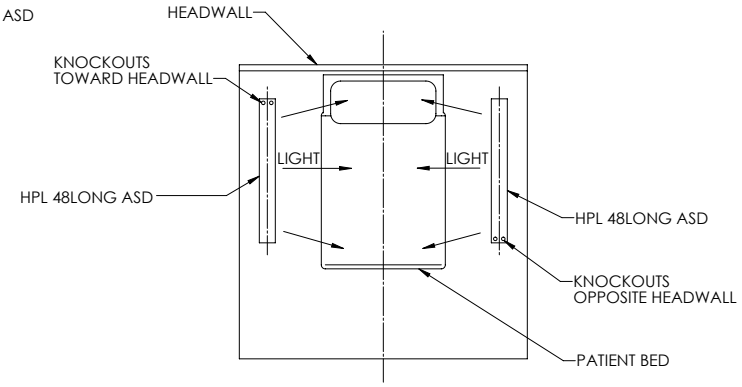
29.4 RJ45 JACK DETAIL (ISO)
NLIGHT MODELS

Layout

Diagram "Not to Scale"



FRONT VIEW



TOP VIEW

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