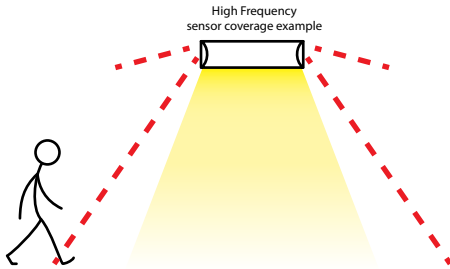




occu-smart® S³ simple sensor solutions

The VANL series by Lamar LED is a specification-grade architectural luminaire for high-abuse and vandal resistant applications. The housing is an extruded aluminum construction with die-cast end plates. The polycarbonate lens adds to it's robustness and allows this unit to be used in high abuse areas. The luminaire can be ceiling or wall mounted and is suitable for wet locations (ceiling mount) and damp locations (wall mount). Ideal for schools, community centers, stairwells, natatoriums, and more. Operating ambient temperature range as low as -20°C to as high as 40°C on most models.

VANL-OS vandal resistant luminaire w/HF Motion Sensor



High frequency motion sensors can detect motion through many materials including glass, sheet rock walls, wood doors and the lens of the fixture, enabling the sensor to be hidden from view - consult factory to see if an HF sensor is the right fit for your application

Features and Specifications:

Construction:

- Extruded aluminum housing/Die cast endcaps
- Standard lens; Opal, high impact extruded UV stabilized polycarbonate. Smooth external surface for easy cleaning, internal ribs for optical efficiency.
- Highly resilient and chemical resistant microcellular closed-cell gasket seals lens to the housing and Endcaps. Optional neoprene gasket for surface/ ceiling interface.
- ADA compliant design
- 5 Stage pretreatment and textured architectural white polyester powder coated after fabrication. Custom Colors are available, consult factory for details.

Size Options:

- Available in 2' or 4' lengths (nominal)

Listing & Ratings:

- UL listed for wet locations ceiling mounted. Suitable for Damp locations when wall mounted. (CAN & USA, ANSI/UL1598 & UL8750). IEC60598 IP64 (Certified dust-tight and resistant to jets of water). Exceeding IK10 impact resistance rating.

Mounting Options:

- Surface mount on ceiling or wall

Driver:

- Universal voltage 120-277V standard
- Custom driver tuning for specific lumen requirements
- 0-10V dimming standard

Warranty:

- 5 years - part replacement only (see our terms & conditions page at www.lamarled.com for details)

See page 2 for lumen chart & dimensions

Ordering Guide / Example

VANL-OS-48M-35-HFAS

VANL-OS						
Series	Size	Power	CCT	Finish Options	General Options	Run Configuration
VANL-OS = Vandal Reistant	24 = 2' nominal 48 = 4' nominal	L = Low M = Medium H = High	30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K	BLANK = Textured white RAL-XX = Custom RAL color *	EM = Emergency pack >90 min., >500 lumens DTD = 0-10V Dim to Dark NA = Natatorium construction NLS = No lens screws SENSOR OPTIONS HF = High frequency occupancy sensor on/Off (internal) HFAS = User selectable 10, 20, 30 or 50% adjustable standby	Blank = Individual BOR = Beginning of run EOR = End of run INT = Intermediate

Consult factory for additional options not shown or listed

Correlated Color Temperatures (CCTs) fall within the nominal range as per ANSI C78.377A

***Custom order on request - Minimum order quantities may apply**

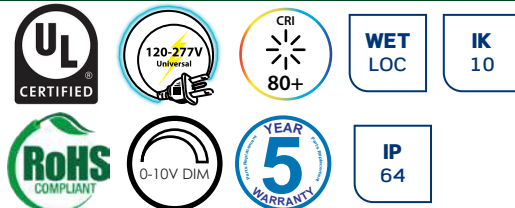
Project Information:

Job Name: _____ Fixture Type: _____

Catalog #: _____ Date: _____

Comments: _____

Certification & Listings:

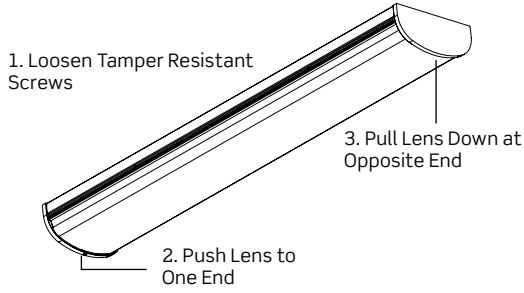


BEFORE INSTALLATION, PLEASE CONSULT YOUR LOCAL ORDINANCES AND BUILDING CODES FOR COMPLIANCE

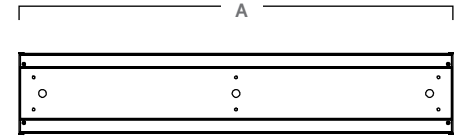
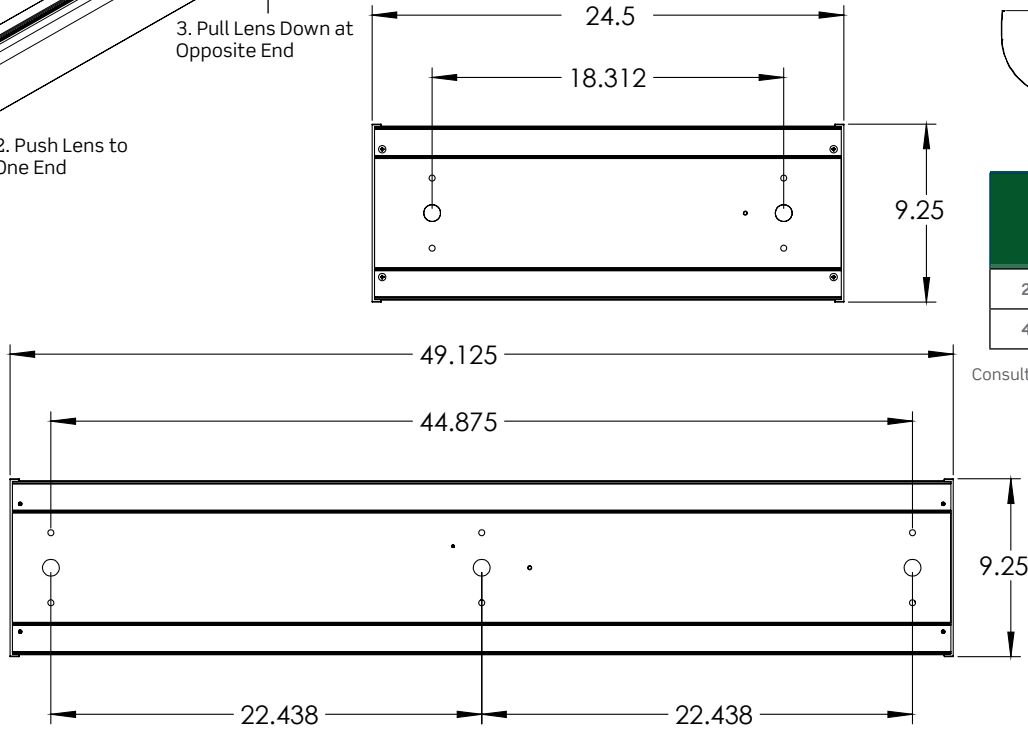
Dimensions

Installation Details

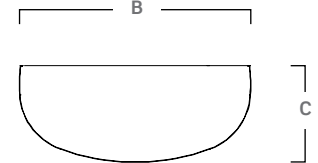
Fixture Opening Method



Surface Mount (all mounting point required)



Top View



End View

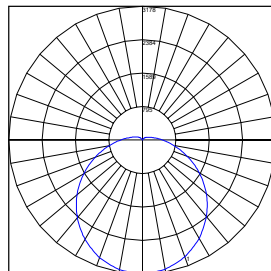
	Dimensions (inch)		
	A	B	C
24	24.5"	9.25"	3.97"
48	49.125"	9.25"	3.97"

Consult installation guide for exact dimensions.

LED Lumen/Wattage Chart - 4000K

Photometric Performance

Characteristics	
Luminaire Lumens	10021
Efficacy Rating	128
Total Luminaire Watts	78.5
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.38



Luminance Data (cd/sq.m)			
Degrees	0-Deg	45-Deg	90-Deg
45	10162	8754	8183
55	10077	8123	7257
65	10176	7361	6021
75	11113	6439	4128
85	17669	6121	1109

Zonal Lumens	
Zone	Lumens
0-30	2445
0-40	3994
0-60	7807
0-90	9506
90-180	515

* Based on IES Performance, VANL-48-H-40

Wattage Chart

	Low (L)	Medium (M)	High (H)
2'	18.5W - 2507lu	26W - 3507 lu	42W - 5544 lu
4'	26W - 3507 lu	56W - 7222 lu	79W - 10021lu

LAMAR LED assumes no responsibility for misapplication of fixtures
Due to the rapid advancements in LED technology, please consult our website for the most current technical data.

Specifications subject to change without notice - Rev 0925

Sensor Features/Details

Tri-level dimming control (corridor function)

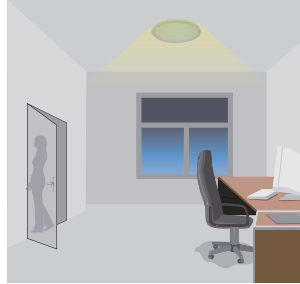
Tri-level dimming control sensors offer 3 levels of light: 100% -->dimmed light (10%, 20%, 30% or 50% optional) -->off; And 2 periods of selectable waiting time: Motion hold-time and stand-by period; selectable daylight threshold and freedom of detection area



With sufficient natural light, the light does not switch on when presence is detected



With insufficient natural light, the sensor switches the light on automatically when a person enters the room



After hold-time, the light dims to stand-by level or turns off completely if surrounding natural light is above the daylight threshold



Light switches off automatically after the stand-by period elapses

Features:

- Adjustable detection area
- Hold-time
- Daylight threshold
- Stand-by period
- Stand-by dimming level
- Sensor antenna interface

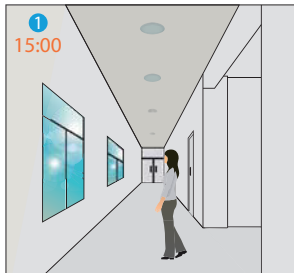
Factory set for bi-level operation 100%/10%

Tri-level dimming default factory setting = 10% bi-level
Off function = disabled

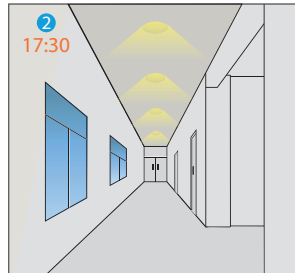
Daylight monitoring function default factory setting = disabled

Daylight monitoring function

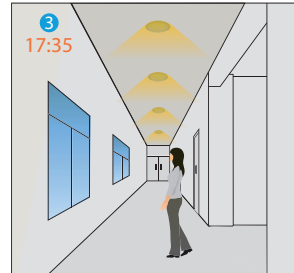
- 1) With sufficient natural light, the light will not turn on when motion is detected
- 2) After hold-time, the light turns off completely if surrounding natural light is sufficient
- 3) When stand-by period is preset at "+∞", the light will turn off completely when surrounding natural light is sufficient during stand-by period and turn on at dimming level automatically when natural light is below daylight threshold



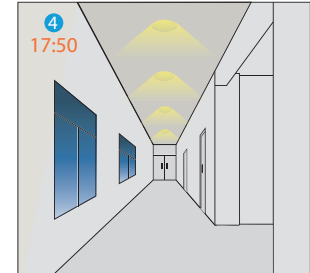
With sufficient natural light, the light does not switch on even when there is motion detected



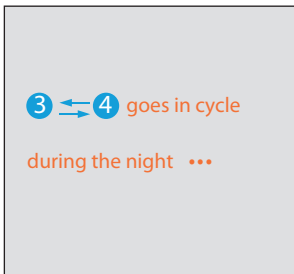
At dusk, as the natural light drops below threshold value, the sensor turns the light on at the dimmed level



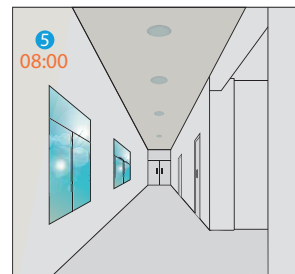
The light switches on at 100% when there is motion detected



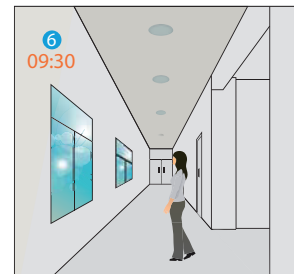
Light dims to stand-by level after the hold-time



100% on when motion is detected and dims to 10% in long absence



At dawn, light turns off completely when natural light reaches above daylight threshold



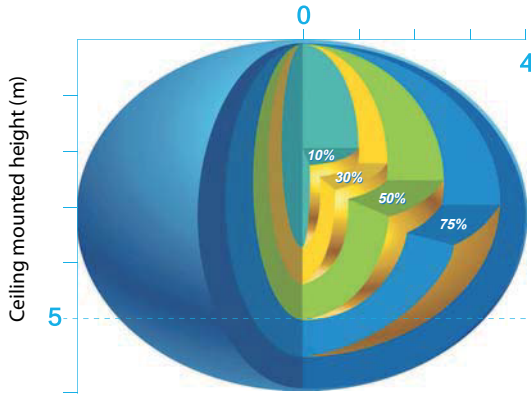
Light does not switch on even when motion is detected during the daytime

Settings on this demonstration:

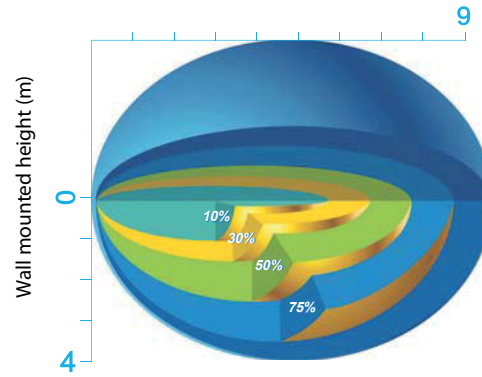
- Hold-time = 10min
- Daylight threshold = 50lux
- Stand-by period +∞
- Stand-by dimming level = 10%

Sensor Features/Details Continued

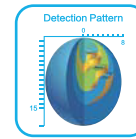
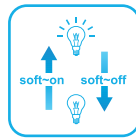
Detection pattern



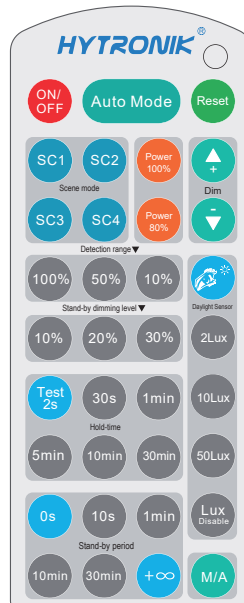
Ceiling mounted detection pattern (m)



Wall mounted detection pattern (m)



Sensor Accessories



HRC = High frequency sensor remote control

For applications with backup generators requiring that connected bi-level lighting to be switched to full light output during power outages regardless of occupancy, we recommend our TTH series with emergency shunt relay (ESRU)

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Due to the rapid advancements in LED technology, please consult our website for the most current technical data.

Specifications subject to change without notice - Rev 0226