VIA 3 PERIMETER
RECESSED
STATIC WHITE

Lumenwerx

Project: _____

Type: _____

DESCRIPTION

Via 3 Perimeter creates a continuously illuminated "slot" at the wall/ceiling intersection. Lighted corners with adjustable end sleeves are available. Via Perimeter installs in grid or drywall ceilings in a choice of three arrangements: level, shallow 1", and deep 3 ¼".

5 YEAR WARRANTY

SENSORS
For latest information on sensors, click here.

IC RATED

Via 3 Perimeter Deep

Order Guide

Up to 121 lm/W performance

LUMINAIRE ID	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE	COLOR TEMP.
		SW			
V3PERL - Via 3 Perimeter Level **V3PERS** - Via 3 Perimeter Shallow **V3PERD** - Via 3 Perimeter Deep	**HLO** - High-Efficiency Lambertian Optic **ARFO**[1] - Asymmetric Room Fill Optic [1] Not available with Deep fixtures.	**SW** - Static white	**80CRI** - 80 CRI **90CRI** - 90 CRI	**500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K

LUMINAIRE LENGTH	VOLTAGE	DRIVER [3]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [8, 9]	MOUNTING
#FT#IN - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' Continuous runs: lengths over 12'	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [2] - 347V [2] Only available with D1 driver.	**D1** - 1% 0-10V **DA** [4] - DALI **LDE1** [4] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V [3] PoE (Power-over-Ethernet) compatible. Consult factory for details. [4] On-site commissioning is required.	**1C** - 1 circuit **#MC** [5] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [6, 7] - Generator transfer device fixture [5] Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. [6] Minimum 4' fixture. [7] Not available with 347V.	**#EC##** [10] - Emergency-powered section **#NL##** [10] - Night light section **#DL##** [10] - Daylight section **#GTD##** [10, 11, 12] - Generator transfer device section **#EMB** [12, 13] - Emergency battery **NA** - None [8] Specify with multi circuit (#MC) electrical option only. [9] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [10] Specify quantity (#), and section length in inches (##). [11] Minimum 4' section. [12] Not available with 347V. [13] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Drywall trim **DTL** - Drywall trimless **DMF** - Drywall mud flange

FINISH	CONTROL [14]		OPTIONS [19]	ADJUSTABLE SLEEVE (optional) [21]
W - Matte white **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [15, 16, 17] Specify the quantity (#) of sensors per fixture. **#ODS** - Onboard Daylight	CONNECTED CONTROLS [18] **LU** - Lutron **AWNR** - Lutron Athena Wireless Node RF Only **AWNS** - Lutron Athena Wireless Node Sensor **EN** - Enlighted **ENC** - Encelium **WL** - Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand	**NEF** [20] - No end flanges **FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [19] Separate codes with a "+" if more than one is specified. [20] For wall-to-wall installations.	**TES** [22] - Adjustable end sleeve **NA** - None [21] See page 3 for details. [22] Minimum 3' fixture for UNV/D1 driver. Minimum 4' fixture for all other drivers. Minimum 5' fixture with EMB option.
		NA - None		
	[14] Standalone and connected control options cannot be combined. [15] Not available with Shallow or Deep fixtures. [16] Available with D1 driver and 1 circuit options only. [17] Minimum 4' per zone. Provide control zone length. [18] Consult factory for connected controls.			

TECHZONE™ & USG Compatible with 4" ceiling

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Dimensions

LEVEL

3 ¹/₃₂"
5 ½"
3 ¾"

SHALLOW

3 ¹/₃₂"
6 ½"
4 ¾"
1"

DEEP

3 ¹/₃₂"
8 ¾"
7"
3 ¼"

DRYWALL

DTR - Trim

3 ¹⁵/₁₆"
Drywall hole width

DTL - Trimless

3 ¹³/₁₆"
Drywall hole width

DMF - Mud flange

4 ⅛"
Drywall hole width

GRID

3 ⁹/₁₆"
wall to inside flange
A
B

	TG9	TB9	TG15	TB15	ST
	Tegular 9/16"	T-bar 9/16"	Tegular 15/16"	T-bar 15/16"	Screw slot T-bar
A wall to flange	3 13/16"		3 15/16"		3 13/16"
B wall to T-bar	3 7/8"		4"		3 7/8"

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product specifications without notification.
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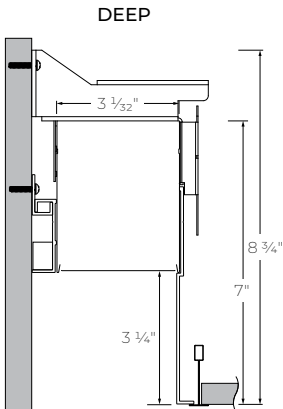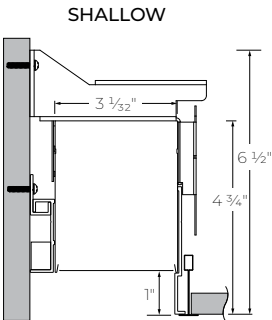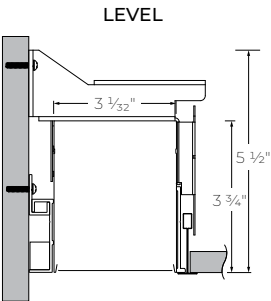VIA3-PERIMETER-SPEC-REV3   January 25, 2024
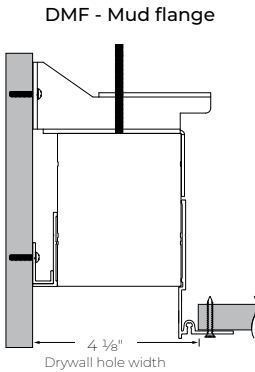
PoE

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Logo: Lumenwerx

Photometrics

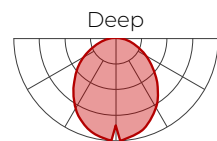Values calculated based on a 4' fixture at 3500K and 80 CRI for all optics.

HLO

Level
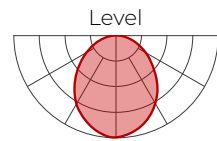
LM/FT	W/FT	LM/W
500	4.1	121
750	6.4	117
1000	8.8	114

Shallow
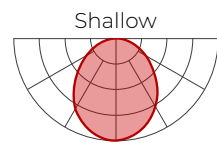
LM/FT	W/FT	LM/W
500	4.2	118
750	6.5	115
1000	9	111

Deep

LM/FT	W/FT	LM/W
500	4.4	113
750	6.9	109
1000	9.5	105

ARFO

Level
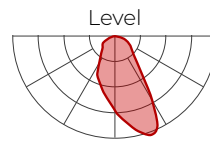
LM/FT	W/FT	LM/W
500	5.5	91
750	8.8	85
1000	12.4	81

Shallow
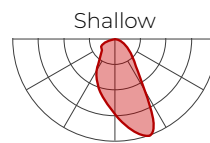
LM/FT	W/FT	LM/W
500	5.6	89
750	8.9	84
1000	12.5	80

MULTIPLIER TABLE

Use this table to get results for different color temperatures and CRI for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS		LPW	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	1.05	1.27	0.95	0.79
3000K	1.02	1.23	0.98	0.81
3500K	1.00	1.19	1.00	0.84
4000K	1.00	1.19	1.04	0.84
5000K	0.96	1.12	1.00	0.89

Adjustable end sleeve - TES

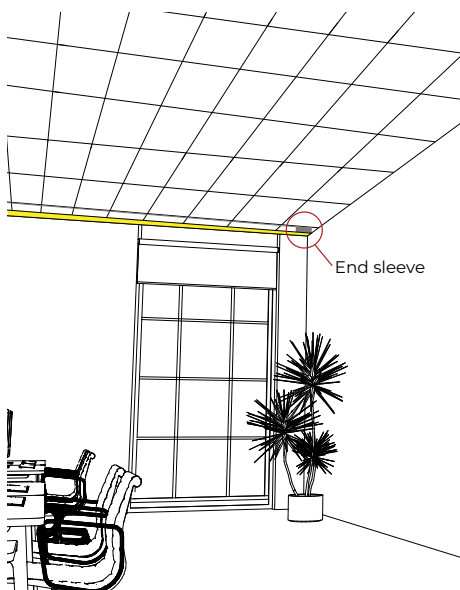Adjustable end sleeve (TES) is designed to provide on-site luminaire adjustability of +2.5" to -4.5". A sleeve accommodates an easy installation and maintenance. Please refer to the End Sleeve Adjustment Installation Instructions for more details.

End sleeve

X = Fixture measure provided by client.
X + 2.5" = Measurement built and supplied.

X
X + 2 1/2"
2 1/2"

16"
+2.5"
cut max. 7"
12"

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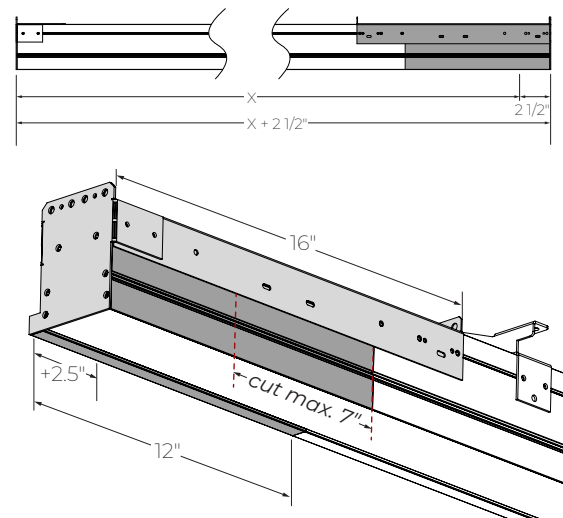
Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio.

Asymmetric Room Fill Optic (ARFO)
Our Asymmetric Room Fill Optic employs an advanced optical system to illuminate rooms and corridors from the perimeter, providing a direct distribution of light with precision and minimal glare.

LIGHT SOURCE
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K and 5000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

LUMINAIRE LENGTH
Via 3 Perimeter is made up of standard 2' to 12' sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code. The minimum individual section available is 2'.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

ELECTRICAL
Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS
Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections
Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery
Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING
Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in drywall ceilings with trim, trimless, or mud flange options.

FINISH
Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white powder coating.
Custom finishes are also available.

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CONTROLS

Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.
For latest information on sensors, click here.

STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, location and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand, and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Flat rolled aluminum sheet or die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Recessed flanges: Extruded aluminum, up to 90% recycled content
End plate: Die-formed cold rolled sheet steel

MAINTENANCE

LED boards are housed in a removable cartridge for easy replacement. Driver is accessible from below.

WEIGHT

4': 11.12 lbs - 5.05 kg
8': 22.25 lbs - 10.1 kg
12': 33.48 lbs - 15.2 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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PoE