

VIA 3 SEAL PERIMETER

LUMENWERX

RECESSED

STATIC WHITE, BIOS ST/DY, FULL SPECTRUM



Project: _____

Type: _____

VIA WEATHER SERIES



DESCRIPTION

Sealed with silicone gaskets, Via Seal fixtures are intended for wet locations. They can act alone as discrete luminaires, or be arranged in continuous lines or patterns. Via 3 Seal Perimeter is suitable for wet locations where temperatures are moderate, and in which spaces are regularly wiped down and frequently in contact with debris and/or moisture. The fixture can be used to create continuous, unbroken lines of light. Via 3 Seal Perimeter is also offered as Wet Listed certified by ETL (Electrical Testing Laboratories), in which case, it is able to withstand smaller particles of debris and light water infiltration. Via 3 Seal Perimeter Wet Listed can also be used to create continuous lines of light, but with subtle breaks at 12-foot increments. See separate spec sheets for patterns.



SENSORS
For latest information on sensors, click [here](#).



IC RATED

Up to 101 lm/W performance

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT ¹	OPTIC	LIGHT SOURCE ⁴
	D		EPDO	
V3SEALPERL - Via 3 Seal Perimeter Level V3SEALPERS - Via 3 Seal Perimeter Shallow V3SEALPERD - Via 3 Seal Perimeter Deep	D - Direct	WET ² - Wet Suitable (IP44) WETL ^{2, 3} - Wet Listed (IP54) ¹ See page 3 for more information. ² Suitable for outdoor environments only when installed under canopy. Not suitable for extreme weather environments. Consult factory for low temperature applications. ³ Can be slightly exposed to water. A minimal shadow line visible at every 12'.	EPDO - Environmentally Protected Direct Optic	SW - Static white FS - Full spectrum BIOSST - Static biologically-optimized lighting BIOSDY - Dynamic biologically-optimized lighting ⁴ Chromawerx Sola and Duo also available. Consult other spec sheet.

CRI	LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER ¹⁴
80 ⁵ - 80 CRI 90 ^{5,6} - 90 CRI 95 ⁷ - 95 CRI ⁵ Not available with full spectrum. ⁶ Not available with BIOS. ⁷ Only available with full spectrum.	500 - Low output 500 lm/ft 750 ⁸ - Medium output 750 lm/ft 1000 ^{8,9} - High output 1000 lm/ft ⁸ Not available with BIOS. ⁹ Not available with full spectrum.	27 ¹⁰ - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 ¹⁰ - 5000K ¹⁰ Not available with BIOS.	#FT#IN ^{11,12} - Specify nominal length (#) in 1' and/or 1" increments Standard nominal lengths: Single units: 2' - 12' Continuous runs: lengths over 12' ¹¹ Minimum 2' fixture. ¹² With BIOSDY, specify in 2' increments only.	120 - 120V 277 - 277V UNV - 120V-277V 347 ¹³ - 347V ¹³ Available with D1 only.	D1 - 1% 0-10V DA ¹⁵ - DALI LTEA2W ¹⁶ - Lutron 1% - 2 wire FP 120V LDE1 ¹⁵ - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V ¹⁴ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁵ On-site commissioning is required. ¹⁶ Available with 120V only.

ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{21,22}	MOUNTING	FINISH	POWER FEED	OPTIONS
1C - 1 circuit #MC ¹⁷ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{18, 19,20} - Generator transfer device fixture ¹⁷ Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. ¹⁸ Minimum 4' fixture. ¹⁹ Not available with 347V. ²⁰ Not available for environments where the ambient temperature falls below 0°C (32°F).	#EC## ²³ - Emergency-powered section #NL## ²³ - Night light section #DL## ²³ - Daylight section #GTD## ^{23,24,25,26} - Generator transfer device section #EMB ^{25,26,27} - Emergency battery NA - None ²¹ Specify with multi circuit (#MC) electrical option only. ²² Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ²³ Specify quantity (#), and section length in inches (##). ²⁴ Minimum 4' section. ²⁵ Not available with 347V. ²⁶ Not available for environments where the ambient temperature falls below 0°C (32°F). ²⁷ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	TC9 - 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	W - Matte white AL - Aluminum WA - White antimicrobial Silverwerx	TF - Top feed EF - End feed	NEF ²⁸ - No end flanges NATA - Natatorium finish CRF - Corrosion-resistant finish G GK - Grid gasket NA - None ²⁸ For wall-to-wall installations.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
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 VIA3SEALPER-RECESSED-SPEC-REV1 September 6, 2022



VIA 3 SEAL PERIMETER

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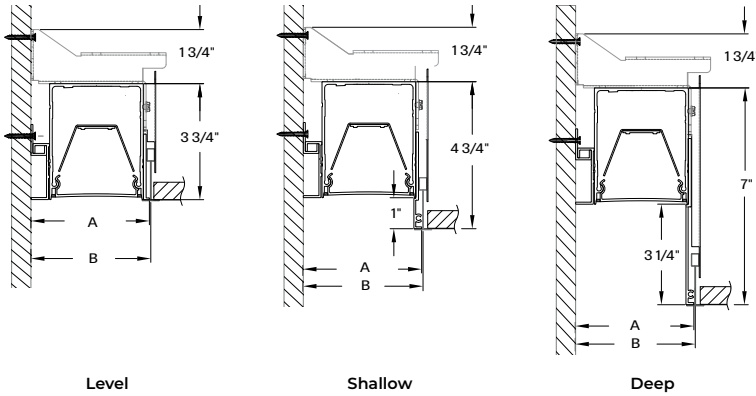
RECESSED

STATIC WHITE, BIOS ST/DY, FULL SPECTRUM

VIA WEATHER SERIES

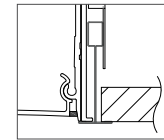
Dimensions

GRID

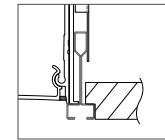


T-BAR	FIXTURE WIDTH	TO CENTER OF T-BAR
	A	B

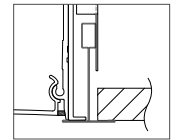
TB9/TC9	3 27/32"	3 7/8"
TB15/TG15	3 15/16"	4"
ST	3 27/32"	3 7/8"



TB9 - T-bar 9/16
TC9 - Tegular 9/16"



ST - Screw slot T-bar



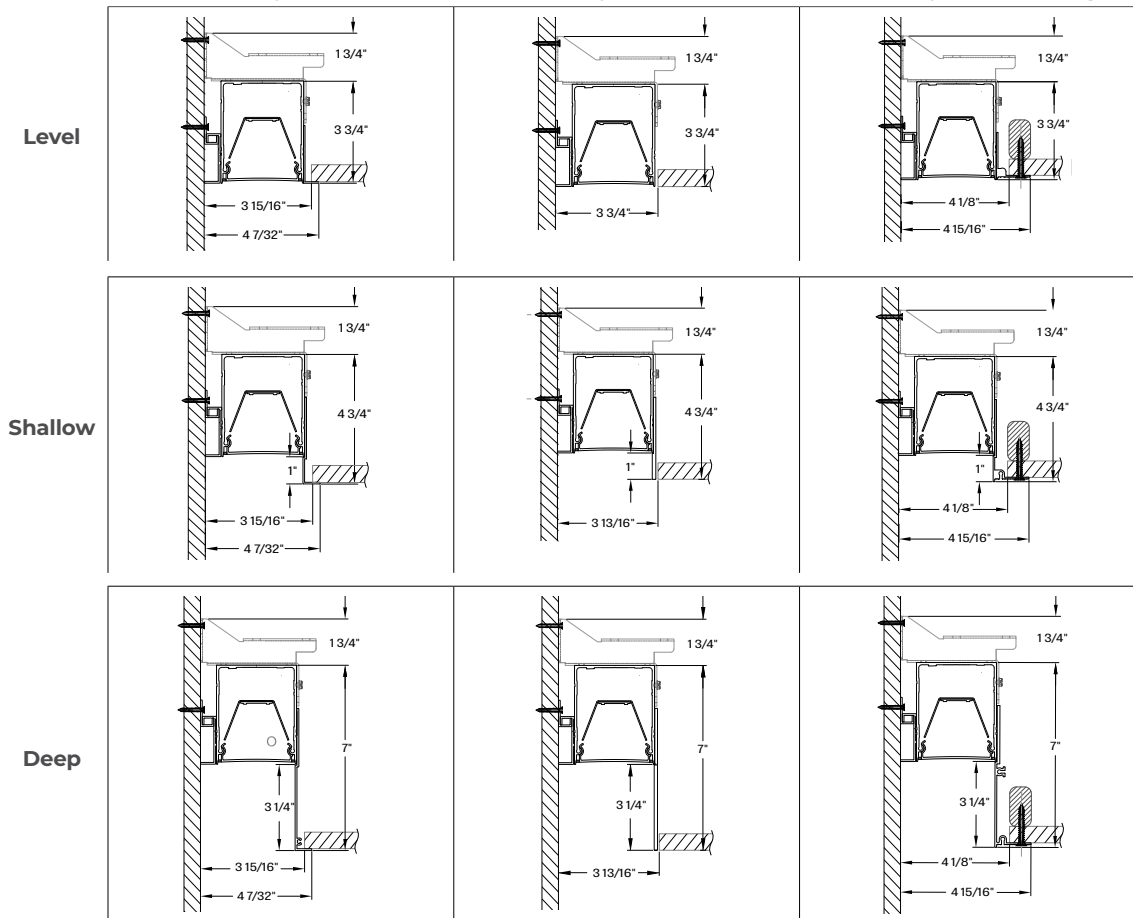
TB15 - T-bar 15/16
TG15 - Tegular 15/16"

DRYWALL

DTR - Drywall trim

DTL - Drywall trimless

DMF - Drywall mud flange



TECHZONE™ & USG Compatible with 4" ceiling

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VIA WEATHER SERIES

Environment Options

The Via Weather Series offers four levels of protective sealing: Level 1, Level 2, Level 3, and Level 4.

Via 3 Seal Perimeter is available with two environment options: Wet Suitable (WET) at Level 1, and Wet Listed (WETL) at Level 2.

For other levels of protective sealing, please see Via Seal spec sheets for Level 1 and Level 2, Via Wet spec sheets for Level 3, and Via Splash spec sheets for Level 4.

FEATURES	 Wet Suitable (IP44) (WET)	 Wet Listed (IP54) (WETL)
Indoor application that requires wipe down	•	•
Healthcare application	•	•
Outdoor application with restrictions: under canopy only	•	•
Outdoor application with restrictions: under canopy, slightly exposed	X	•
Continuous line of light over 12 ft	•	X
Water and dust resistant	•	•
Water and dust protected	X	•
Not suitable for extreme weather applications	•	•
Damp listed	•	X
Wet listed	X	•

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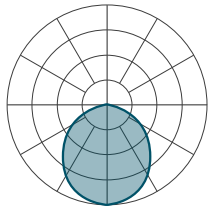
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Photometrics

MULTIPLIER TABLES

Please follow the multiplier tables to ensure correct lumen value. CCT and CRI, will change the lumen output.

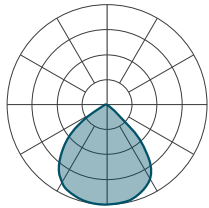


Level - EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
500	2000	19.8	101
750	3000	30.7	98
1000	4000	42.3	94

Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.06	1.27	0.94	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.18	1.00	0.85

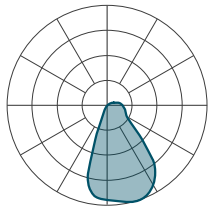


Shallow - EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
500	2000	20.6	97
750	3000	32.1	93
1000	4000	44.2	90

Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.06	1.28	0.94	0.78
3000	1.03	1.24	0.97	0.81
3500	1.00	1.21	1.00	0.83
4000	1.00	1.19	1.00	0.84



Deep - EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
500	2000	21.2	94
750	3000	33	91
1000	4000	45.5	88

Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.06	1.28	0.94	0.78
3000	1.03	1.24	0.97	0.81
3500	1.00	1.21	1.00	0.83
4000	1.00	1.19	1.00	0.84

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Technical Specifications

OPTIC

Environmentally Protected Direct Optic (EPDO)

The Environmentally Protected Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors guide the light through the lens. The EPDO suits moderate climate environments.

LIGHT SOURCE - STATIC WHITE

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.

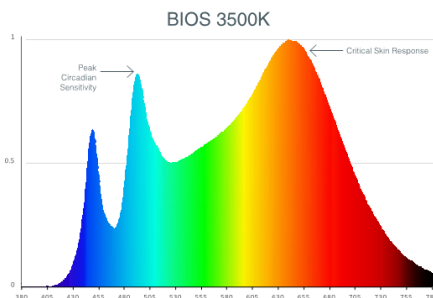
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

LIGHT SOURCE - FULL SPECTRUM

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS or full spectrum is selected
- Feature 55 or L04 meets WELL glare category (c-d) (not applicable with 1000 lm/ft)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind - This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

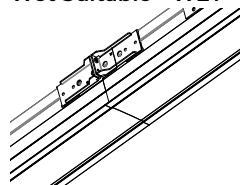
LUMINAIRE LENGTH

Via 3 Seal Perimeter is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2' and can be ordered in 1' and/or 1" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx joiner kits 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.

JOINING SYSTEM

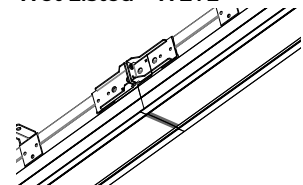
All individual sections are joined together onsite using the 1/4"-20 screws and nuts provided. With the Wet Suitable (WET) option, the junction between two adjacent sections creates a continuous line of light without shadows. With the Wet Listed (WETL) option, the junction between two adjacent sections is sealed with a silicone gasket, creating a slight visible break in the line of light every 12 ft.

Wet Suitable - WET



Continuous line of light

Wet Listed - WETL



Visible break in line of light

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LUMINAIRE MAINTENANCE

LED arrays and drivers are accessible through the optical chamber and easily replaced.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) 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% (specify 2-wire, or Ecosystem Dim-to-Off), 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), 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. Suited for ambient temperatures of 0°C (32°F) to 55°C (131°F).

Generator Transfer Device (GTD)

A UL924 listed shunt relay that can bypass both line voltage (120-277V) and 0-10V dimming signal. Suited for ambient temperatures of 0°C (32°F) to 60°C (140°F).

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in matte white or aluminum. Optional antimicrobial finish.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content

Interior brackets - Die-formed cold rolled sheet steel 18 gauge thick

Joining system (WETL) - 16 gauge steel joiners and closed-cell silicone foam joiner gasket

Reflectors - Cold rolled steel 0.024" thick precisely die-formed, 95% reflective matte white painted

Recessed flanges - Extruded aluminum (0.060" nominal) up to 90% recycled content

Mud flange - Extruded aluminum (0.060" nominal) up to 90% recycled content

End cap - Die-cast aluminum (0.100" nominal)

End cap gasket - 1/16" closed-cell silicone foam

Mounting bracket - 1/8" thick aluminum, stainless steel PEM stud, and steel and neoprene sealing washer

Grid gasket (GGK option) - 1/16" closed-cell silicone foam, assures a better seal between the fixture and the grid

WEIGHT

Via 3 Seal Perimeter 4ft - 12.8 lbs - 5.8 kg

Via 3 Seal Perimeter 8ft - 23.6 lbs - 10.7 kg

Via 3 Seal Perimeter 12ft - 34.4 lbs - 15.6 kg

CERTIFICATIONS

ETL - WET environment option is rated for dry/damp locations. WETL environment option is ETL Wet Listed. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. During the installation of WETL fixtures, the contractor is responsible for properly sealing all mounting and electrical connection points.

IC rated - Suitable for direct contact with insulation.

WARRANTY

Lumenwerx provides a five-year limited warranty on 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.