VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

STATIC WHITE, BIOS ST/DY

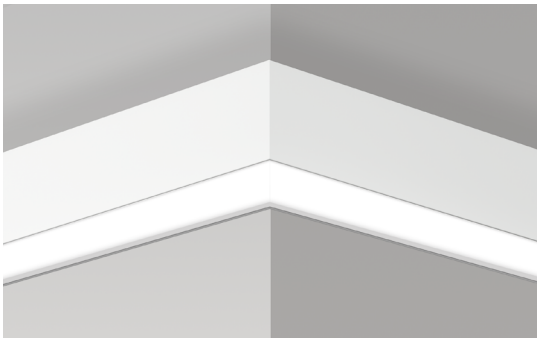
VIA WEATHER SERIES

LUMENWERX

5 YEAR WARRANTY

Project: _____

Type: _____



LEVO - Leveled outside corner

DESCRIPTION

Sealed with silicone gaskets, Via Seal fixtures are intended for wet locations and can be pendant, surface, wall, or recessed mounted. They can act alone as discrete luminaires, or be arranged in continuous lines or patterns. Via 2 Seal 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. These luminaires can be used to create continuous, unbroken lines of light. See separate spec sheets for other available mountings.

SENSORS
For latest information on sensors, click here.

IMPORTANT: Fixture must be installed with direct lens facing down.

IK05 LEVEL 1

Up to 108 lm/W performance

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT [1]	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE [4]	CRI	DIR. LUM. PACK.
V2SEALWPAT		**WET**					
V2SEALWPAT - Via 2" Seal Wall Pattern	**D** - Direct **DI** - Direct/ Indirect	**WET** [2] - Wet Suitable (IP44) [1] See page 4 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.	**EPDO** - Environmentally Protected Direct Optic **ASDO** - Asymmetric Soft Direct Optic	**EPIO** - Environmentally Protected Indirect Optic **ASIO** [3] - Asymmetric Soft Indirect Optic **WIO2** [3] - Widespread Indirect Optic **NA** - Not applicable [3] Not available with BIOS.	**SW** - Static white **BIOSST** - Static biologically-optimized lighting **BIOSDY** - Dynamic biologically-optimized lighting [4] Chromawerx Sola and Duo also available. Consult other spec sheet.	**80** - 80 CRI **90** [5] - 90 CRI [5] Not available with BIOS.	**350** - Low output 350 lm/ft **500** - Medium output 500 lm/ft **750** [6] - High output 750 lm/ft [6] Not available with BIOS.

INDIR. LUM. PACK. Specify NA for Direct fixture	COLOR TEMP.	PATTERN LENGTH	CORNER TYPE	CORNER DEGREE	VOLTAGE	DRIVER [12]
350 - Low output 350 lm/ft **500** - Medium output 500 lm/ft **750** [7] - High output 750 lm/ft **NA** - Not applicable [7] Not available with BIOS.	**27** [8] - 2700K **30** - 3000K **35** - 3500K **40** - 4000K **50** [8] - 5000K [8] Not available with BIOS.	**#FT#IN** [9,10] - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Continuous runs: lengths over 12' [9] Minimum 2' for Direct. Minimum 3' for Direct/Indirect. [10] With BIOSDY, specify in 2' increments only.	**LEVI** - Leveled inside corner **LEVO** - Leveled outside corner	**90(#)** - 90° corner, specify the number of corners (#)	**120** - 120V **277** - 277V **UNV** - 120V-277V **347** [11] - 347V [11] Available with D1 only.	**D1** - 1% 0-10V **DA** [13] - DALI **LTEA2W** [14] - Lutron 1% - 2 wire FP 120V **LDE1** [13] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **RLTD10** [15] - Low-temperature 10% 0-10V [12] PoE (Power-over-Ethernet) compatible. Consult factory for details. [13] On-site commissioning is required. [14] Available with 120V only. [15] Remote driver box required. Suitable for temperatures down to -40°C/F.

ELECTRICAL	ELECTRICAL SECTIONS (optional) [21, 22]	POW. FEED	MOUNTING	FINISH	OPTIONS
1C - 1 circuit **2C** [16] - 2 circuits **#MC** [17] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [18,19,20] - Generator transfer device fixture [16] Available for Direct/Indirect only. Separate direct and indirect circuits. [17] Specify total number of circuits (#), including any circuits 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. For Direct/Indirect, minimum 8' fixture.	**BF** - Back feed **TF** - Top feed **EF** - End feed	**DMB** - Drywall mounting bracket **MMB** - Mullion mounting bracket	**W** - Matte white **AL** - Aluminum **WA** - White antimicrobial Silverwerx **CF#** - Custom finish, specify RAL#	**NATA** - Natatorium finish **CRF** - Corrosion-resistant finish **NA** - None

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
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VIA2SEAL-PAT-WALL-SPEC-REV3 September 2, 2022

VIA 2 SEAL

LUMENWERX

WALL PATTERN

DIRECT, DIRECT/INDIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

Leveled corner

HOW TO SPECIFY A PATTERN?

Please follow these steps when specifying in order to be as precise as possible.

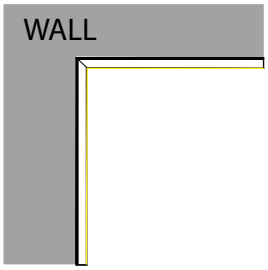
(1) We require a drawing illustrating the pattern you are trying to achieve - anything from a simple line drawing to elaborate architectural drawings will suffice.

(2) Under **PATTERN LENGTH**, enter the overall length of your pattern - either in feet or inches.

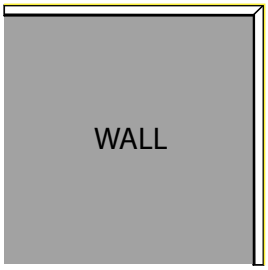
(3) Under **CORNER TYPE**, please enter the type (or types) of corner you require.

(4) Under **CORNER DEGREE**, please enter the angle in degrees, followed by the number of corners.

PATTERN LENGTH	CORNER TYPE	CORNER DEGREE
#FT#IN [1,2] - Specify nominal length (**#**) in 1' and/or 1" increments **Standard nominal lengths:** Continuous runs: lengths over 12' [1] Minimum 2' for Direct. Minimum 3' for Direct/Indirect. [2] With **BIOSDY**, specify in 2' increments only.	**LEVI** - Leveled inside corner **LEVO** - Leveled outside corner	**90(#)**- 90° corner, specify the number of corners (**#**)



LEVI - Leveled inside corner



LEVO - Leveled outside corner

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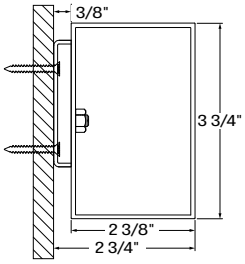
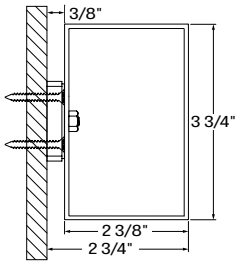
Section Views

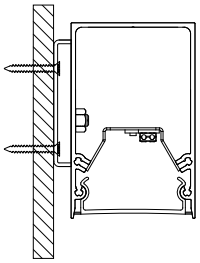
DIRECT



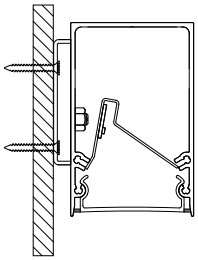
DMB - Drywall mounting bracket



MMB - Mullion mounting bracket

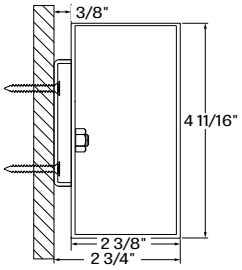


EPDO

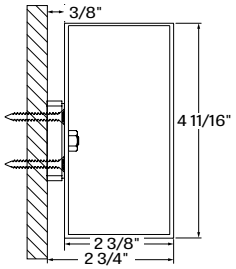


ASDO

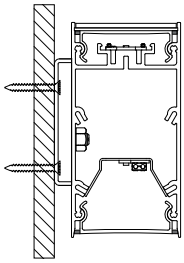
DIRECT/INDIRECT



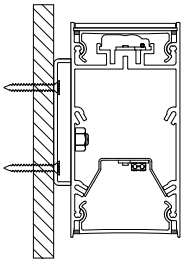
DMB - Drywall mounting bracket



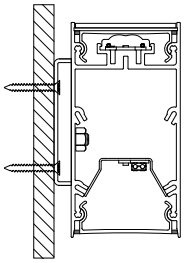
MMB - Mullion mounting bracket



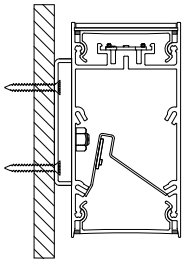
EPIO
EPDO



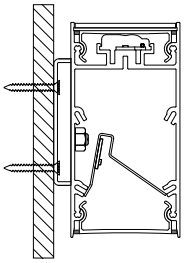
ASIO
EPDO



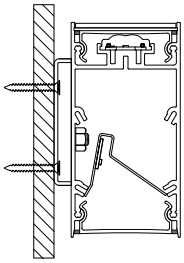
WIO2
EPDO



EPIO
ASDO



ASIO
ASDO



WIO2
ASDO

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STATIC WHITE, BIOS ST/DY

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 2 Seal is available with one environment option: Wet Suitable (WET) at Level 1.
For other levels of protective sealing, please see Via 3 Seal or Via 4 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)
Direct distribution	•
Direct/Indirect distribution	•
Indoor application that requires wipe down	•
Healthcare application	•
Outdoor application with restrictions: under canopy only	•
Continuous line of light over 12 ft	•
Water and dust resistant	•
Water and dust protected	X
Not suitable for extreme weather applications	•
Damp listed	•
Wet listed	X

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Photometrics

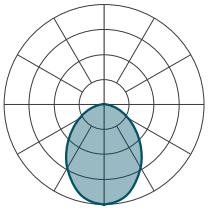
MULTIPLIER TABLE

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

Multiplier - CCT/CRI

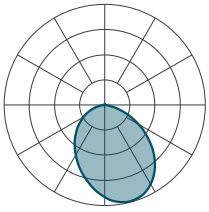
CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.06	1.27	0.94	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.18	1.00	0.85
5000	0.95	1.12	1.05	0.89

DIRECT



EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
350	1400	14.1	99
500	2000	20.7	97
750	3000	32.6	92



ASDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
350	1400	17.0	82
500	2000	25.2	79
750	3000	40.1	75

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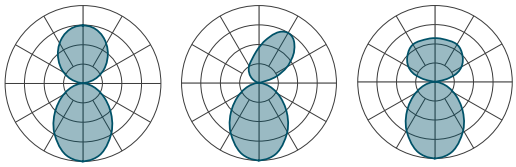
Photometrics

DIRECT/INDIRECT - WITH EPDO

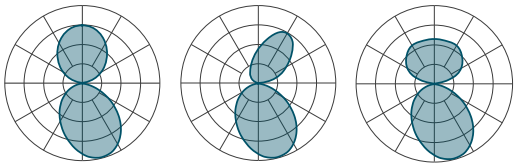
Delivered lumens at 40K at 80 CRI for all optics.



EPDO - EPIO EPDO - ASIO EPDO - WIO2

DIRECT/INDIRECT - WITH ASDO

Delivered lumens at 40K at 80 CRI for all optics.



ASDO - EPIO ASDO - ASIO ASDO - WIO2

EPDO EPIO

LM/FT D	LM/FT I	NOMINAL LM/4FT D	NOMINAL LM/4FT I	TOTAL LM/4FT	INPUT WATTS	LPW
350	350	1400	1400	2800	28	100
	500		2000	3400	34.7	98
	750		3000	4400	46.7	94
500	350	2000	1400	3400	34.7	98
	500		2000	4000	41.3	97
	750		3000	5000	53.3	94
750	350	3000	1400	4400	46.7	94
	500		2000	5000	53.2	94
	750		3000	6000	65.3	92

EPDO ASIO

LM/FT D	LM/FT I	NOMINAL LM/4FT D	NOMINAL LM/4FT I	TOTAL LM/4FT	INPUT WATTS	LPW
350	350	1400	1400	2800	27.5	102
	500		2000	3400	34	100
	750		3000	4400	45.6	97
500	350	2000	1400	3400	34.2	100
	500		2000	4000	40.6	99
	750		3000	5000	52.2	96
750	350	3000	1400	4400	46.1	95
	500		2000	5000	52.6	95
	750		3000	6000	64.2	94

EPDO WIO2

LM/FT D	LM/FT I	NOMINAL LM/4FT D	NOMINAL LM/4FT I	TOTAL LM/4FT	INPUT WATTS	LPW
350	350	1400	1400	2800	25.9	108
	500		2000	3400	31.4	108
	750		3000	4400	41.3	107
500	350	2000	1400	3400	32.5	105
	500		2000	4000	38	105
	750		3000	5000	47.9	105
750	350	3000	1400	4400	44.4	99
	500		2000	5000	50	100
	750		3000	6000	59.8	100

ASDO EPIO

LM/FT D	LM/FT I	NOMINAL LM/4FT D	NOMINAL LM/4FT I	TOTAL LM/4FT	INPUT WATTS	LPW
350	350	1400	1400	2800	31	90
	500		2000	3400	37.7	90
	750		3000	4400	49.7	89
500	350	2000	1400	3400	39.2	87
	500		2000	4000	45.8	87
	750		3000	5000	57.9	86
750	350	3000	1400	4400	54.1	81
	500		2000	5000	60.7	82
	750		3000	6000	72.8	83

ASDO ASIO

LM/FT D	LM/FT I	NOMINAL LM/4FT D	NOMINAL LM/4FT I	TOTAL LM/4FT	INPUT WATTS	LPW
350	350	1400	1400	2800	30.5	92
	500		2000	3400	37	92
	750		3000	4400	48.6	91
500	350	2000	1400	3400	38.7	88
	500		2000	4000	45.2	89
	750		3000	5000	56.7	88
750	350	3000	1400	4400	53.6	82
	500		2000	5000	60	83
	750		3000	6000	71.6	84

ASDO WIO2

LM/FT D	LM/FT I	NOMINAL LM/4FT D	NOMINAL LM/4FT I	TOTAL LM/4FT	INPUT WATTS	LPW
350	350	1400	1400	2800	28.8	97
	500		2000	3400	34.4	99
	750		3000	4400	44.2	100
500	350	2000	1400	3400	37	92
	500		2000	4000	42.5	94
	750		3000	5000	52.4	95
750	350	3000	1400	4400	51.9	85
	500		2000	5000	57.4	87
	750		3000	6000	67.3	89

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LUMENWERX

Technical Specifications

DIRECT OPTICS

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.

Asymmetric Soft Direct Optic (ASDO)
The Asymmetric Soft 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 specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASDO suits moderate climate environments.

INDIRECT OPTICS

Environmentally Protected Indirect Optic (EPIO)
The Environmentally Protected Indirect Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. The lens is 1/16" thick and made of frosted polycarbonate. This extruded snap-in lens has a gasket to ensure proper sealing. The EPIO suits moderate climate environments.

Asymmetric Soft Indirect Optic (ASIO)
The Asymmetric Soft Indirect Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. The lens is 1/16" thick and made of clear polycarbonate. This extruded snap-in lens has a gasket to ensure proper sealing. The total internal reflection and surface scattering optic is specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASIO suits moderate climate environments.

Widespread Indirect Optic (WIO2)
The Widespread Indirect Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. The lens is 1/16" thick and made of clear polycarbonate. This extruded snap-in lens has a gasket to ensure proper sealing. The total internal reflection and surface scattering optic offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1. The WIO2 suits moderate climate environments.

Uniformity [max/min]

Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
24"	3.0	5.5	8.0
36"	2.0	3.0	4.5
48"	2.0	2.0	3.5

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VIA 2 SEAL

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WALL PATTERN

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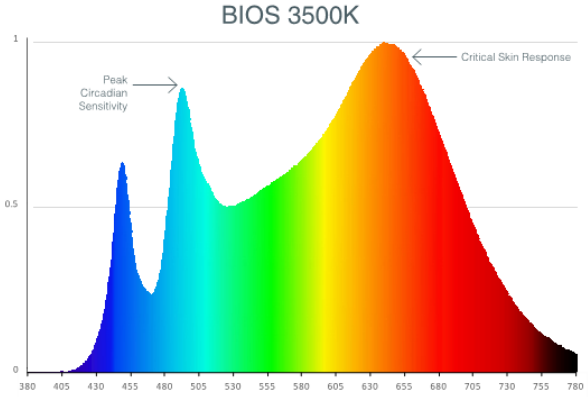
VIA WEATHER SERIES

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.

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 LED is selected
- Feature 58 or L07 when 90 CRI 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

PATTERN LENGTH

Via 2 Seal can be ordered in 1' and/or 1" increments. Continuous runs are available for run lengths over 12'. The minimum length is 2' for Direct fixtures, and 3' for Direct/Indirect fixtures. 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.

WEEP HOLES

The Direct/Indirect fixtures with the Wet Suitable (WET) option feature a weep hole situated in the end cap. Water and moisture that enters the fixture will be expelled through this hole.

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VIA2SEAL-PAT-WALL-SPEC-REV3 September 2, 2022

VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

STATIC WHITE, BIOS ST/DY

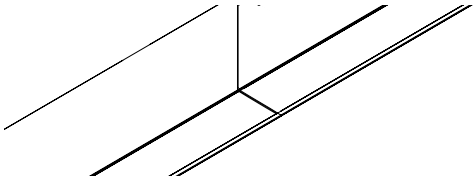
VIA WEATHER SERIES

LUMENWERX

JOINING SYSTEM

All individual sections are joined together onsite using the ¼"-20 screws and nuts provided. The junction between two adjacent sections creates a continuous line of light without shadows.

Wet Suitable - WET



Continuous line of light

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. An optional low-temperature 10% 0-10V driver, suitable for temperatures down to -40°C/F is also available.

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 light (#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 light sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.
Code: 3MC-1NL48

Example 3: 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).

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VIA 2 SEAL

LUMENWERX

WALL PATTERN

DIRECT, DIRECT/INDIRECT

STATIC WHITE, BIOS ST/DY

VIA WEATHER SERIES

MOUNTING OPTIONS

Fixtures may be horizontally mounted to either a wall or a mullion using a bracket. For long runs, a minimum of 6" from adjacent walls is required.

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - Powder-coat paint in matte white or aluminum. Custom finishes are also available. 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
Reflectors - Cold rolled steel 0.024" thick precisely die-formed, 95% reflective matte white painted
End cap - Die-cast aluminum (0.100" nominal)
End cap gasket - 1/16" closed-cell silicone foam
Drywall mounting bracket - 1/16" thick steel bracket with stainless steel PEM studs and sealing washers
Mullion mounting bracket - Die-cast aluminum

CERTIFICATIONS

ETL - WET environment option is rated for dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
IK05 - Impact resistance rated to IK05.

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.

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