

VIA 2 PRISM

LUMENWERX

COMBINATION SURFACE PATTERN
DIRECT

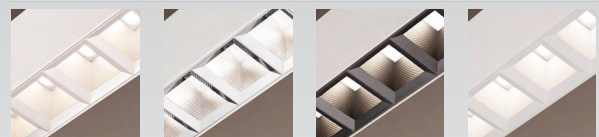


Equipped with all of the features that have made Via among our most successful product lines, the Via 2 Prism pushes the technological envelope even further with its Diamond Prism Optic™ (DPO™), a sophisticated louver engineered to deliver soft, glare-free illumination that wraps around subjects casting gradients of light rather than dramatic sharp-edged shadows.

Via 2 Prism Combination Pattern luminaires are composed of luminaires joined together to create patterns within which a combination of optics (either DPO™ and/or HLO and/or blanks) is used.

DIAMOND PRISM OPTIC + HLO + BLANK + DIAMOND PRISM OPTIC + BLANK

DIAMOND PRISM OPTIC



MATTE SILVER

PRECISION SPECULAR

MATTE BLACK

MATTE WHITE

CORNER



LEVELED

INNER

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



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Project: _____
Type: _____

Order Guide

A drawing of your pattern is required - anything from a line drawing to an architectural drawing. You can also use the template on page 3 to sketch your configuration.

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC ¹	LIGHT SOURCE ²	CRI
VIA2PRCOMSPAT	D			
VIA2PRCOMSPAT - Via 2" Prism Combination Surface Pattern	D - Direct	<p>#FT#IN</p> <p>SDPO - Matte Silver Diamond Prism Optic</p> <p>PDPO - Precision Specular Diamond Prism Optic</p> <p>BDPO - Matte Black Diamond Prism Optic</p> <p>WDPO - Matte White Diamond Prism Optic</p> <p>HLO - High-Efficiency Lambertian Optic</p> <p>¹Specify the total quantity of each required optic. DPO louvers are only available in 1' and/or 6" sections. HLO is available in 1' and/or 1" sections. The rest of the fixture will be filled with blanks.</p>	<p>SW - Static white</p> <p>FS - Full spectrum</p> <p>²Chromawerx Sola and Duo also available. Consult factory.</p>	<p>80³ - 80 CRI</p> <p>90³ - 90 CRI</p> <p>95⁴ - 95 CRI</p> <p>³Not available with full spectrum.</p> <p>⁴Not available with static white.</p>

DIRECT LUMEN PACKAGE	COLOR TEMPERATURE	TOTAL PATTERN LENGTH	CORNER TYPE	CORNER OPTIC	CORNER DEGREE
<p>350 - Low output 350 lm/ft</p> <p>500 - Medium output 500 lm/ft</p> <p>750 - High output 750 lm/ft</p> <p>1000^{5,6} - Ultra high output 1000 lm/ft</p> <p>1200^{5,6,7} - Hyper output 1200 lm/ft</p> <p>⁵Not available with BDPO.</p> <p>⁶Not available with full spectrum.</p> <p>⁷For HLO, fixture will be very bright. Use in suitable applications.</p>	<p>27 - 2700K</p> <p>30 - 3000K</p> <p>35 - 3500K</p> <p>40 - 4000K</p>	<p>#FT#IN - Specify total pattern length (#) in 1' and/or 1" increments</p> <p>Standard nominal lengths:</p> <p>Single units: 2' - 12'</p> <p>Continuous runs: lengths over 12'</p>	<p>LEV - Leveled corner</p> <p>INN - Inner corner</p>	<p>HLO - High-Efficiency Lambertian Optic corner min 2'x2'</p> <p>BLA - Aluminum blank corner min 6"x6"</p>	<p>90(#) - 90 degrees, specify number of corners (#)</p> <p>#(#)⁸ - Custom degree, specify the angle degree #, followed by the number of corners (#).</p> <p>⁸Minimum angle is 30°.</p>

VOLTAGE	DRIVER ¹⁰	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{16,17}
<p>120 - 120V</p> <p>277 - 277V</p> <p>UNV - 120V-277V</p> <p>347⁹ - 347V</p> <p>⁹Available with D1 only.</p>	<p>D1 - 1% 0-10V</p> <p>DA¹¹ - DALI</p> <p>LTEA2W¹² - Lutron 1% - 2 wire FP 120V</p> <p>LDE1¹¹ - Lutron Hi-lume 1% Eco</p> <p>ELD1 - eldoLED 1% ECOdrive 0-10V</p> <p>ELDO - eldoLED 0.1% SOLOdrive 0-10V</p> <p>¹⁰PoE (Power-over-Ethernet) compatible. Consult factory for details.</p> <p>¹¹On-site commissioning is required.</p> <p>¹²Available with 120V only.</p>	<p>IC - 1 circuit</p> <p>#MC¹³ - Multi circuit</p> <p>EC - Emergency-powered fixture</p> <p>NL - Night light fixture</p> <p>DL - Daylight fixture</p> <p>GTDT^{14,15} - Generator transfer device fixture</p> <p>¹³Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit.</p> <p>¹⁴Minimum 4' fixture.</p> <p>¹⁵Not available with 347V.</p>	<p>#EC##¹⁸ - Emergency-powered section</p> <p>#NL##¹⁸ - Night light section</p> <p>#DL##¹⁸ - Daylight section</p> <p>#GTD##^{18,19,20} - Generator transfer device section</p> <p>#EMB^{20,21} - Emergency battery</p> <p>NA - None</p> <p>¹⁶Specify with multi circuit (#MC) electrical option only.</p> <p>¹⁷Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'.</p> <p>¹⁸Specify quantity (#), and section length in inches (##).</p> <p>¹⁹Minimum 4' section.</p> <p>²⁰Not available with 347V.</p> <p>²¹Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.</p>

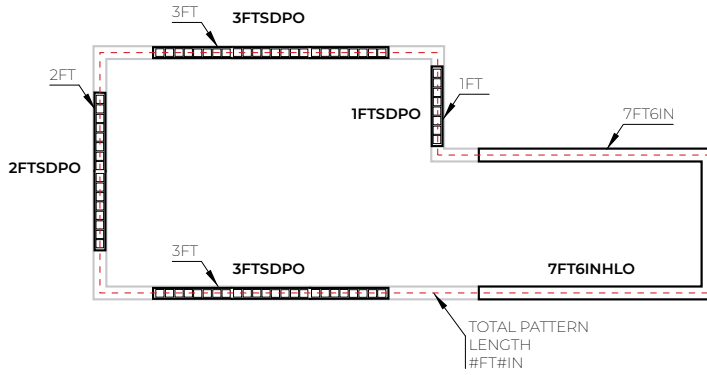
MOUNTING CEILING	MOUNTING WALL	FINISH ²²	CONTROL ²³	OPTIONS
<p>DRC - Drywall ceiling</p> <p>GRD - Grid ceiling</p>	<p>DRM - Drywall mounting</p> <p>DMB - Drywall mounting bracket</p> <p>NA - Not applicable</p>	<p>W - Matte white</p> <p>AL - Aluminum</p> <p>B - Matte black</p> <p>CF# - Custom finish, specify RAL#</p> <p>²²Blanks will match the fixture color unless otherwise specified.</p>	<p>STANDALONE CONTROLS^{24,25}</p> <p>Specify the quantity (#) of sensors per fixture.</p> <p>#OMS²⁶ - Onboard Occupancy</p> <p>#OMS##²⁷ - Onboard Occupancy with bi-level dimming</p> <p>#ODS - Onboard Daylight</p> <p>#OCS - Onboard Occupancy & Daylight</p> <p>NA - None</p> <p>²³Standalone and connected control options cannot be combined.</p> <p>²⁴Available with D1 driver and 1 circuit; options only.</p> <p>²⁵Minimum 4' per zone. Provide control zone length.</p>	<p>CONNECTED CONTROLS²⁸</p> <p>LU - Lutron</p> <p>EN - Enlighted</p> <p>ENC - Encelium</p> <p>WL - Cooper Wavelinx</p> <p>AN - Acuity nLight</p> <p>CA - Casambi</p> <p>LG - Legrand</p> <p>FUI20 - Fuse 120V</p> <p>FU277 - Fuse 277V</p> <p>NA - None</p> <p>²⁶Fixture turns off when no occupancy.</p> <p>²⁷Fixture dims to specified light level % (##).</p> <p>²⁸Consult factory for connected controls.</p>

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Pattern



Corner type



LEV - Leveled corner

INN - Inner corner

Corner optic



HLO - HLO corner

BLA - Blank corner

Ex.: VIA2PRCOMSPAT-D-9FTSDPO-7FT6INHLO-SW-80-500-35-21FT6IN-LEV-BLA-90(4)-LEV-HLO-90(2)-...

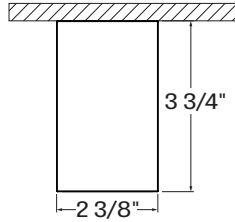
A drawing of your Via 2 Prism Combination Pattern is required - anything from a line drawing to an architectural drawing. You can also use the grid below to sketch your layout. Louvers are available in 1ft and/or 6in sections. HLO is available in 1ft and/or 1in sections. Specify the quantity of louvers and HLO. The rest will be filled with blanks.



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COMBINATION SURFACE PATTERN DIRECT

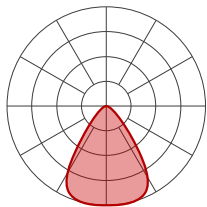
Dimensions



Photometrics

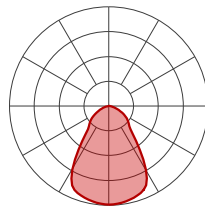
Values calculated based on a 4 ft fixture at 35K and 80 CRI for all optics.

SDPO



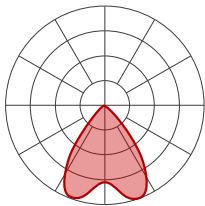
LM/FT	W/FT	LPW
350	2.6	132
500	3.8	132
750	5.9	127
1000	8.2	122
1200	10	120

WDPO



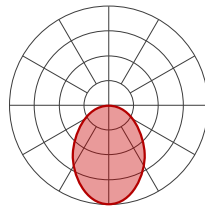
LM/FT	W/FT	LPW
350	2.4	145
500	3.5	144
750	5.4	139
1000	7.4	135
1200	9.1	132

PDPO



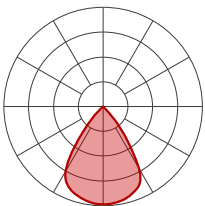
LM/FT	W/FT	LPW
350	2.4	147
500	3.4	147
750	5.3	142
1000	7.3	137
1200	8.9	134

HLO



LM/FT	W/FT	LPW
350	3.2	109
500	4.7	107
750	7.2	104
1000	9.9	101
1200	12.1	98

BDPO



LM/FT	W/FT	LPW
350	5.1	69
500	7.5	66
750	11.9	63
1000	16.7	60

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and CRI.

Multiplier - CCT/CRI
HLO

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

Multiplier - CCT/CRI
SDPO, PDPO, BDPO, WDPO

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.04	1.19	0.96	0.84
3000	1.00	1.15	1.00	0.87
3500	1.00	1.12	1.00	0.89
4000	0.99	1.10	1.01	0.91

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Technical Specifications

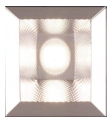
DIRECT OPTICS

Diamond Prism Optic (DPO)

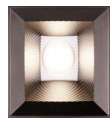
The Diamond Prism Optic™ (DPO™) is our patent-pending 3-tiered optic meticulously crafted to refract and reflect beams with great precision, effectively keeping glare to a minimum while delivering light of exceptional quality and visual comfort.



MATTE SILVER



PRECISION
SPECULAR



MATTE BLACK



MATTE WHITE

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. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.06.

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 and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate 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.

PATTERN LENGTH

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 (120-277VAC) 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.

MOUNTING OPTIONS

Fixtures can be mounted directly to T-Bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum distance of 6" from the vertical wall.

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FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - Matte white, matte black, or aluminum powder coating.
Custom finishes are also available.

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, sensor location, blank size, and functionality of the sensor within the luminaire are selected by Lumenwerx. See client drawings for details.

Three types are available:

OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.

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.

OCS: Both an occupancy and a daylight sensor are installed in the luminaire.

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 - Aluminum or cold rolled steel die-formed, 95% reflective matte white painted

Lens - Acrylic or polycarbonate

End caps - Die-cast aluminum

WEIGHT

4ft - 9.03 lbs - 4.1 kg

8ft - 18.28 lbs - 8.3 kg

12ft - 27.97 lbs - 12.7 kg

CERTIFICATION

ETL - Rated for Indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

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.