

VIA 2 PRISM

COMBINATION PENDANT PATTERN
DIRECT/INDIRECT, DIRECT

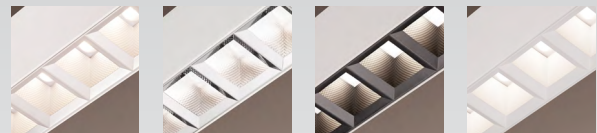
LUMENWERX



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



MATTE SILVER

PRECISION SPECULAR

MATTE BLACK

MATTE WHITE


CORNER



LEVELED

DIAMOND PRISM OPTIC + BLANK + HLO

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	DISTRIB.	DIRECT OPTIC ¹	INDIRECT OPTIC ² Specify NA for Direct fixture	LIGHT SOURCE ³	CRI
VIA2PRCOMPAT					
VIA2PRCOMPAT - Via 2" Prism Combination Pendant Pattern	D1 - Direct/Indirect D - Direct	#FT#IN SDPO - Matte Silver Diamond Prism Optic PDPO - Precision Specular Diamond Prism Optic BDPO - Matte Black Diamond Prism Optic WDPO - Matte White Diamond Prism Optic HLO - High-Efficiency Lambertian Optic Ex: SFTSDPO-2FTBDPO-12FT3INHLO ¹ Specify 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.	WIO2 - Widespread Indirect Optic TIO - Translucent Indirect Optic WAI2 - Widespread Asymmetric Indirect Optic NA - Not applicable ² The indirect distribution is always fully lit.	SW - Static white FS - Full spectrum ³ Chromawerx Sola and Duo also available. Consult factory.	80 ⁴ - 80 CRI 90 ⁴ - 90 CRI 95 ⁵ - 95 CRI ⁴ Not available with full spectrum. ⁵ Not available with static white.

DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	TOTAL PATTERN LENGTH	CORNER TYPE	CORNER OPTIC
350 - Low output 350 lm/ft 500 ⁶ - Medium output 500 lm/ft 750 ⁷ - High output 750 lm/ft 1000 ^{8,10,11,13} - Ultra high output 1000 lm/ft 1200 ^{9,10,11,12,13} - Hyper output 1200 lm/ft ⁶ For BDPO, Indirect must not exceed 1000 lm/ft. ⁷ For BDPO, Indirect must not exceed 500 lm/ft. ⁸ For PDPO/SDPO/WDPO, Indirect must not exceed 1000 lm/ft. ⁹ For PDPO/SDPO/WDPO, Indirect must not exceed 750 lm/ft. ¹⁰ Not available with BDPO. ¹¹ For HLO, Indirect must not exceed 500 lm/ft.	350 - Low output 350 lm/ft 500 - Medium output 500 lm/ft 750 - High output 750 lm/ft 1000 ^{13,14} - Ultra high output 1000 lm/ft 1200 ^{13,14,15} - Hyper output 1200 lm/ft NA - Not applicable ¹² For HLO, fixture will be very bright. Use in suitable applications. ¹³ Not available with full spectrum. ¹⁴ Not available with WAI2. ¹⁵ Fixture will be very bright. Use in suitable applications.	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	#FT#IN ¹⁶ - Specify total pattern length (#) in 1' and/or 1" increments Standard nominal lengths: Single units: 2' - 12' Continuous runs: lengths over 12' ¹⁶ Minimum 3' for Direct/Indirect.	LEV - Leveled corner	HLO - High-Efficiency Lambertian Optic corner min. 2'x2' BLA - Aluminum blank corner min. 6"x6"

CORNER DEGREE	VOLTAGE	DRIVER ¹⁹	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{26,27}
90(#) - 90 degrees, specify number of corners (#) #(#) ¹⁷ - Custom degree, specify the angle degree #, followed by the number of corners (#). ¹⁷ Minimum angle is 30°.	120 - 120V 277 - 277V UNV - 120V-277V 347 ¹⁸ - 347V ¹⁸ Available with D1 only.	D1 - 1% 0-10V DA ²⁰ - DALI LTEA2W ²¹ - Lutron 1% - 2 wire FP 120V LDE1 ²⁰ - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V ¹⁹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ²⁰ On-site commissioning is required. ²¹ Available with 120V only.	1C - 1 circuit 2C ²² - 2 circuits #MC ²³ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{24,25} - Generator transfer device fixture ²² Available for Direct/Indirect only. Separate direct and indirect circuits. ²³ Specify total number of circuits (#), including any for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. ²⁴ Minimum 4' fixture. ²⁵ Not available with 347V.	#EC## ²⁸ - Emergency-powered section #NL## ²⁸ - Night light section #DL## ²⁸ - Daylight section #GTD## ^{28,29,30} - Generator transfer device section #EMB ^{30,31} - Emergency battery NA - None ²⁶ Specify with multi circuit (#MC) electrical option only. ²⁷ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ²⁸ Specify quantity (#), and section length in inches (##). ²⁹ Minimum 4' section. ³⁰ Not available with 347V. ³¹ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.

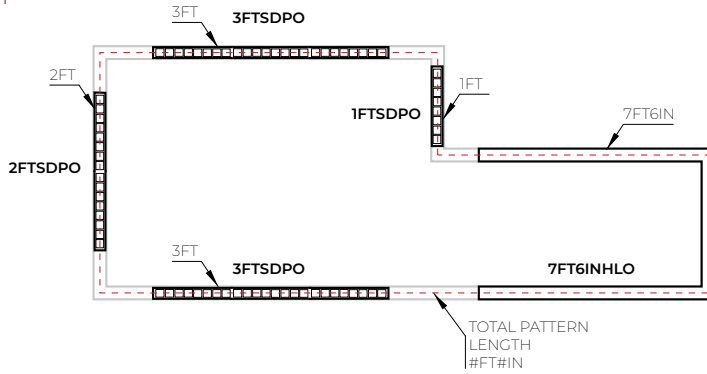
MOUNTING ³²	FINISH ³³	CONTROL ³⁴	OPTIONS
ACS - Aircraft cable, standard STS - Stem, standard ACC() - Aircraft cable, custom STC() - Stem, custom ³² See page 4 for ordering details.	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL# ³³ Blanks will match the fixture color unless otherwise specified.	STANDALONE CONTROLS ^{35,36} Specify the quantity (#) of sensors per fixture. #OMS ³⁷ - Onboard Occupancy #OMS## ³⁸ - Onboard Occupancy with bi-level dimming #ODS - Onboard Daylight #OCS - Onboard Occupancy & Daylight NA - None ³⁴ Standalone and connected control options cannot be combined. ³⁵ Available with D1 driver and 1 circuit options only. ³⁶ Minimum 4' per zone. Provide control zone length.	CONNECTED CONTROLS ³⁹ LU - Lutron EN - Enlighted ENC - Encelium WL - Cooper Wavelinx AN - Acuity nLight CA - Casambi LG - Legrand FU120 - Fuse 120V FU277 - Fuse 277V CTB9 ⁴⁰ - T-bar caddy clip, 9/16" CTB15 ⁴⁰ - T-bar caddy clip, 15/16" CTG9 ⁴⁰ - Tegular caddy clip, 9/16" CTG15 ⁴⁰ - Tegular caddy clip, 15/16" CST ⁴⁰ - Screw slots T-bar NA - None ³⁷ Fixture turns off when no occupancy. ³⁸ Fixture dims to specified light level % (##). ³⁹ Consult factory for connected controls. ⁴⁰ Available with aircraft cable only.

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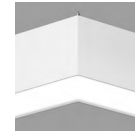
COMBINATION PENDANT PATTERN DIRECT/INDIRECT, DIRECT

LUMENWERX

Pattern



Corner type



LEV - Level corner

Corner optic



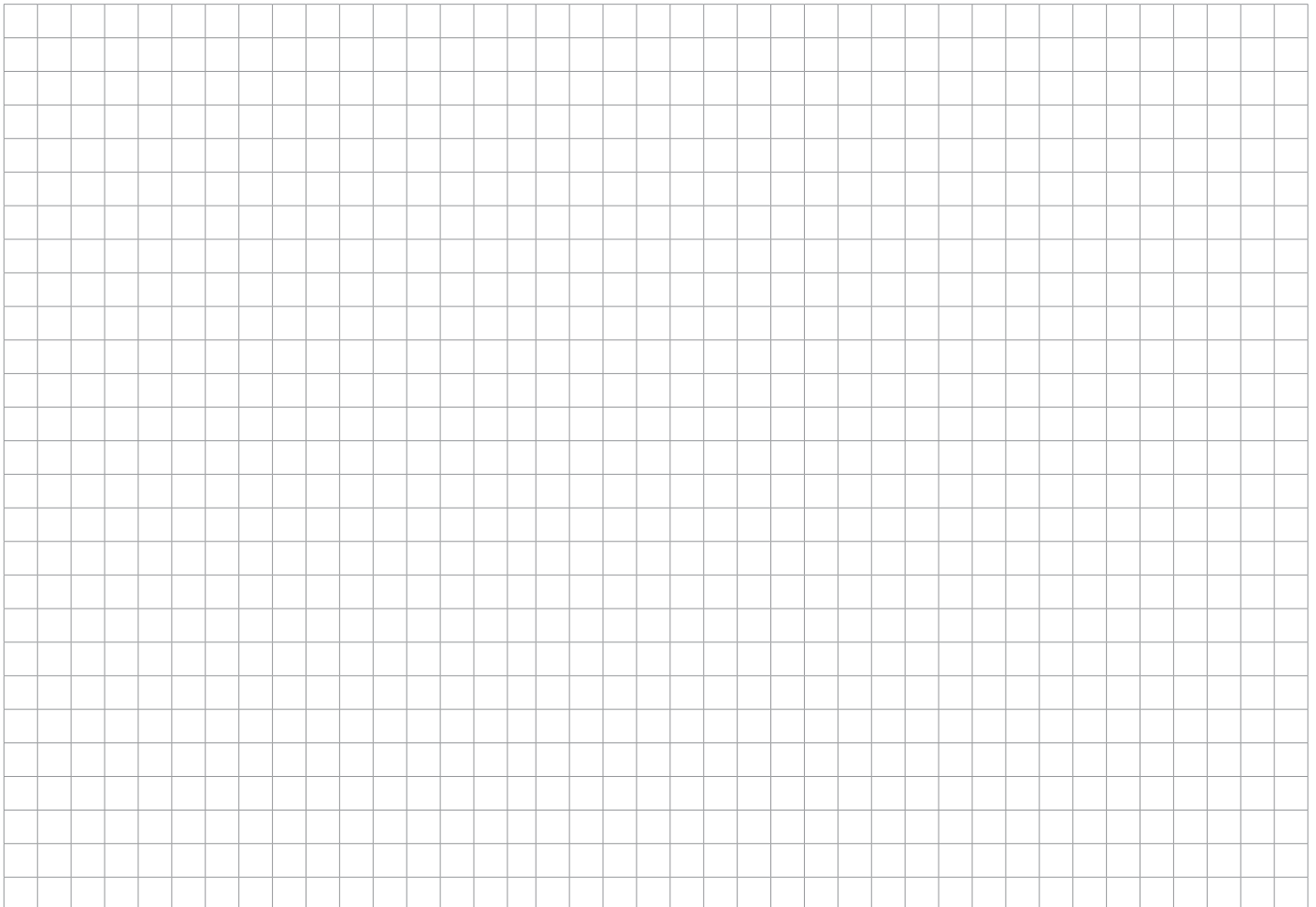
HLO - HLO corner



BLA - Blank corner

Ex.: VIA2PRCOMPAT-D-9FTSDPO-7FT6INHLO-NA-SW-80-500-NA-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.



VIA 2 PRISM

COMBINATION PENDANT PATTERN

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LUMENWERX

Pendant Mounting Code

Aircraft Cable

Standard

ACS - Aircraft cable, standard

Ø5" for power canopy
 Ø3" for non-power
 Canopies are white
 Power cord is white for all fixture finishes
 (except black fixture is black power cord)
 Aircraft cable length is 36"

Custom

Example: ACC(3NPC-72-W-PCB-SLC)

ACC()				
NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS
3NPC - Ø3" non-power canopy 5NPC - Ø5" non-power canopy	36 - 36" 72 - 72" 120 - 120" # 1 - Other lengths, specify in inches ¹ Maximum length is 288". For longer lengths, please consult factory.	W - White AL - Aluminum B - Black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

Stem

Standard

STS - Stem, standard

Ø5" for power canopy
 Ø5" for non-power
 Canopies are white
 Stem finish is the same color as fixture
 Stem length is 18"
 Stem is not field adjustable

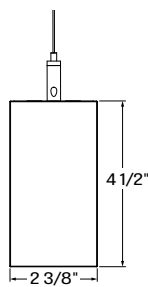
Custom

Example: STC(5NPC-36-W-STW-SLS)

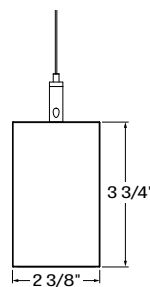
STC()				
NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTIONS
5NPC - Ø5" non-power canopy	18 - 18" 36 - 36" # 2 - Specify length in inches ² Minimum length is 6". Maximum length is 72". Stem is not field adjustable.	W - White AL - Aluminum B - Black CF# - Custom finish, specify RAL#	STW - White STAL - Aluminum STB - Black STCF# - Custom finish, specify RAL#	SLS - Sloped ceiling for stem NA - None

Dimensions

DIRECT/INDIRECT



DIRECT



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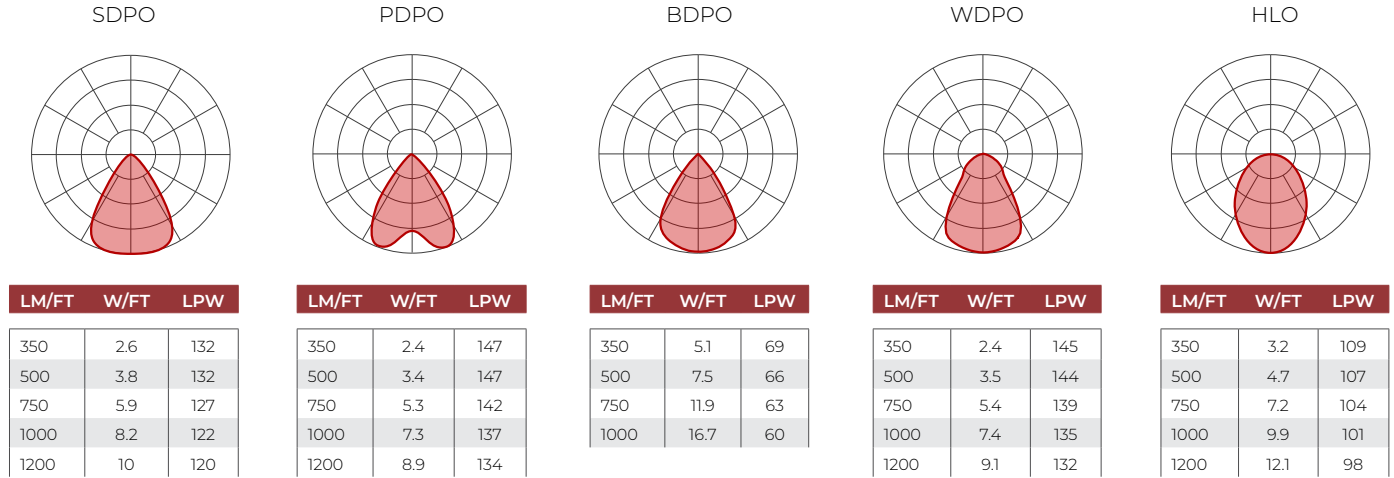
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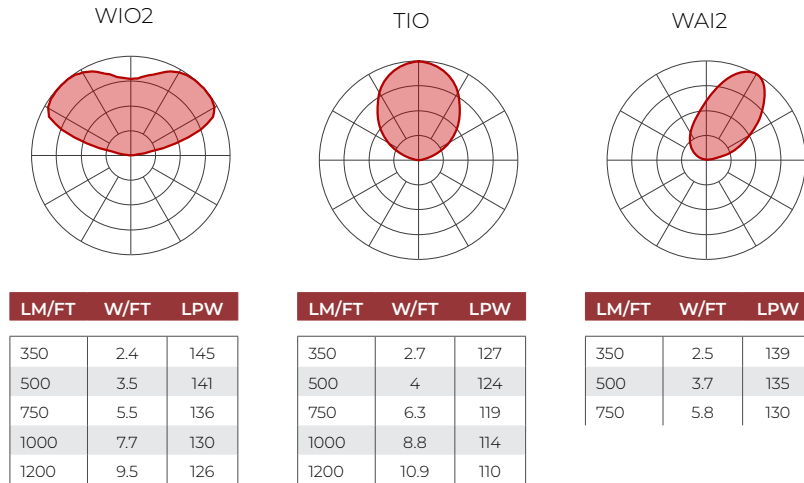
Photometrics

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

DIRECT OPTICS



INDIRECT OPTICS



MULTIPLIER TABLES

Use these tables to get results for different color temperatures, and CRI for all Direct and Indirect photometric tables.

Multiplier - CCT/CRI

HLO, WIO2, TIO, WAI2

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

DIRECT/INDIRECT - LPW CALCULATION EXAMPLE

For Direct/Indirect performance values, follow the below formula.

$$\left(\frac{\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}}{\text{DIRECT W/FT} + \text{INDIRECT W/FT}} \right) = \text{LPW}$$

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Technical Specifications

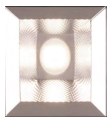
DIRECT OPTICS

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.

INDIRECT OPTICS

Widespread Indirect Optic (WIO2)

The Widespread Indirect Optic (WIO2) is a horizontal LED array with a widespread indirect micro prismatic optic that 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.

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'
12"	5.5	10.0	9.0
18"	6.5	6.0	6.0
24"	2.5	4.0	4.5

Translucent Indirect Optic (TIO)

The Translucent Indirect Optic (TIO) is composed of a horizontal LED array that has a translucent lens to mask pixilation from the diodes. TIO has a 100° spread in the indirect that is ideal when the fixture is mounted farther away from the ceiling.

Widespread Asymmetric Indirect Optic (WAI2)

The Widespread Asymmetric Indirect Optic (WAI2) offers an upward grazing effect with a 45° forward throw. It softly highlights the ceiling in the up-light while distributing the required illumination of the rest of an interior space. For avoiding glare and enjoying visual comfort, WAI2 is an ideal solution.

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.

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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 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.

MOUNTING OPTIONS

Fixtures can be pendant-mounted, using aircraft cables, or stem-mounted. Unless otherwise specified, Lumenwerx provides the following hardware:

Standard aircraft cable option (ACS) - Canopies are white, Ø5" for power canopy, Ø3" for non-power. Power cord is black for black fixtures, and white for all other fixture finishes. Aircraft cable length is 36".

Standard stem option (STS) - Canopies are white, Ø5" for both power and non-power. Stem finish is the same color as fixture. Stem length is 18". Stem is not field adjustable.

Caddy clips, if required specify under OPTIONS

For all other options, see the mounting code on page 3.

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.

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LUMENWERX

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

Drop lens - Extruded with glued end caps

End caps - Die-cast aluminum

Hanger - Chromed griplock securely attached with spring steel hardware in end caps and/or joiners

Aircraft cable suspension - 7x7 braids aluminum aircraft cable 0.06" thick

Stem - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

WEIGHT

Direct/Indirect	Direct
4ft - 10.68 lbs - 4.85 kg	4ft - 9.03 lbs - 4.1 kg
8ft - 22.03 lbs - 10 kg	8ft - 18.28 lbs - 8.3 kg
12ft - 32.60 lbs - 14.8 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.