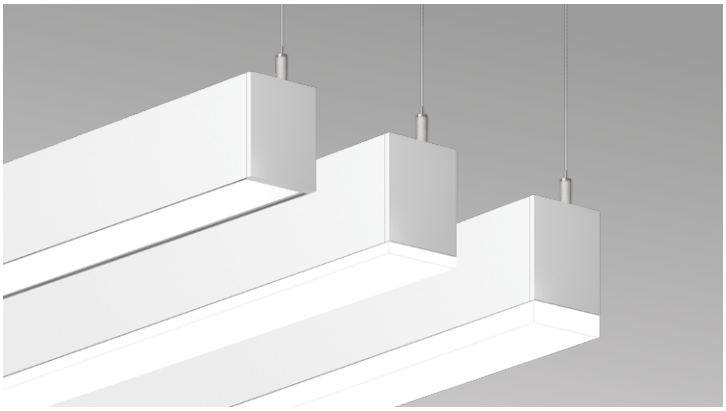
VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

5 YEAR WARRANTY 5 YEAR WARRANTY



Lens Positions [1]

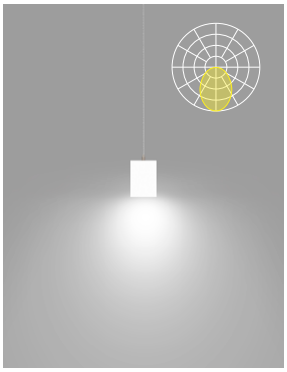
DESCRIPTION

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Pendant is offered with Lambertian, asymmetric, widespread, wall wash, or low-glare optics.

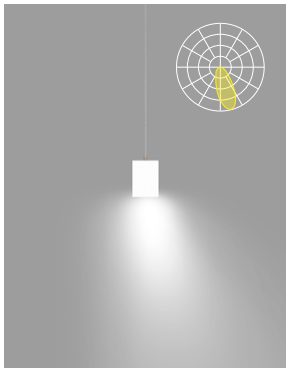
Up to 153 lm/W performance

SENSORS
For latest information on sensors, click here.

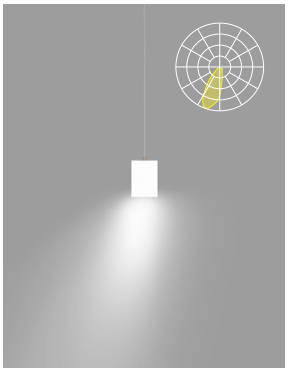
DIRECT OPTICS



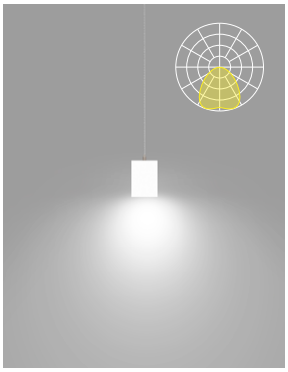
HLO
High-Efficiency Lambertian Optic



ARO2
Asymmetric Refractive Optic



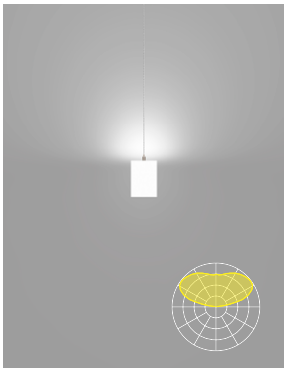
WRO2
Wall Wash Refractive Optic



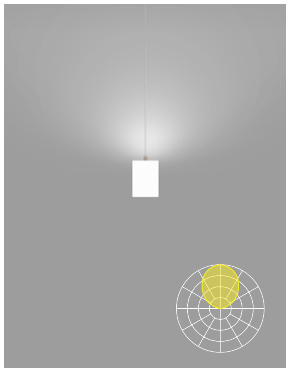
WDO
Widespread Direct Optic

LGO
Low-Glare Optic

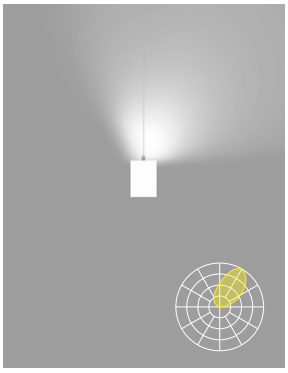
INDIRECT OPTICS



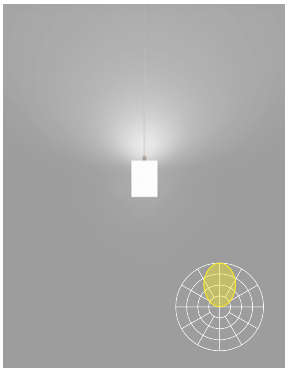
WIO2
Widespread Indirect Optic



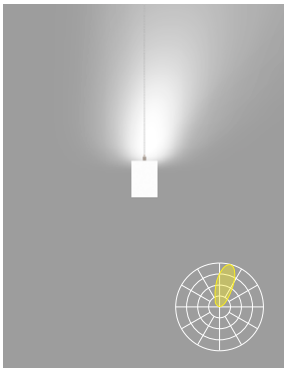
TIO [2]
Translucent Indirect Optic



WAI2
Widespread Asymmetric Indirect Optic



HLO [3]
High-Efficiency Lambertian Optic



ARO2 [3]
Asymmetric Refractive Optic

[1] Drop lens positions available with HLO direct lens only.
[2] Available only with Direct/Indirect.
[3] Not available with Direct/Indirect.

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VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC Specify NA for Indirect fixture	LENS POSITION Specify NA for Indirect fixture	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE [6]
VIA3P					
VIA3P - Via 3" Pendant	**DI** - Direct/ Indirect **D** - Direct **I** - Indirect	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic **WDO** - Widespread Direct Optic **LGO** - Low-Glare Optic **NA** - Not applicable	**FH** [1] - Flush **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop **NA** [1] - Not applicable [1] • For HLO, specify FH, 0.5D, or 1.0D. • For ARO2, WRO2, WDO, and LGO, specify FH. • For an Indirect fixture, specify NA.	**WIO2** [2] - Widespread Indirect Optic **TIO** [3,4] - Translucent Indirect Optic **WAI2** [3] - Widespread Asymmetric Indirect Optic **HLO** [5] - High-Efficiency Lambertian Optic **ARO2** [5] - Asymmetric Refractive Optic **NA** - Not applicable [2] Not available with BIOSTU. [3] Not available with BIOS. [4] Available only with Direct/Indirect. [5] Not available with Direct/Indirect.	**SW** - Static white **BIOSST** [7,8] - BIOS Biological Static **BIOSDY** [7,8] - BIOS Biological Dynamic **BIOSTU** [7,8] - BIOS Biological Tunable [6] Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets. [7] Only available with low and medium lumen packages. [8] See page 7 for details.

CRI	DIRECT LUMEN PACKAGE Specify NA for Indirect fixture	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80 CRI **90CRI** [9] - 90 CRI [9] Not available with BIOS.	**350LMF** [10] - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable [10] Minimum 3' fixture. [11] Fixture will be very bright. Use in suitable applications.	**350LMF** - Hypo output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft **1200LMF** [11] - Hyper output 1200 lm/ft **NA** - Not applicable	**27K** [12] - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** [12] - 5000K [12] Not available with BIOS.	**#FT#IN** [13] - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Single units: 2' to 12' Continuous runs: lengths over 12' [13] Minimum 3' for Direct/Indirect.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [14] - 347V [14] Available with D1 driver only.

DRIVER [15]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [22,23]	MOUNTING [28]
D1 - 1% 0-10V **DA** [16] - DALI **LDE1** [16] - Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V **ELV** [17] - ELV 120V **TRI** [17] - TRIAC 120V [15] PoE (Power-over-Ethernet) compatible. Consult factory for details. [16] On-site commissioning is required. [17] Available with 120V only.	**1C** - 1 circuit **2C** [18] - 2 circuits **#MC** [19] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [20,21] - Generator transfer device fixture [18] Available for Direct/Indirect only. Separate direct and indirect circuits. [19] Specify total number of circuits (#), including any required for electrical section or COB options. Provide drawing or layout specifications. Minimum 4' section per circuit. [20] Minimum 4' fixture. [21] Not available with 347V.	**#EC##** [24] - Emergency-powered section **#NL##** [24] - Night light section **#DL##** [24] - Daylight section **#GTD##** [24,25,26] - Generator transfer device section **#EMB** [26,27] - Emergency battery **NA** - None [22] Specify with multi circuit (#MC) electrical option only. [23] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [24] Specify quantity (#), and section length in inches (##). [25] Minimum 4' section. [26] Not available with 347V. [27] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.	**ACS** - Aircraft cable, standard **STS** - Stem, standard **ACC( )** - Aircraft cable, custom **STC( )** - Stem, custom [28] Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.

FINISH	CONTROL [29]		OPTIONS [36]	MODULE (optional) [38]
W - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	STANDALONE CONTROLS [30,31,32] Specify the quantity (#) of sensors per fixture. **#OMS** [33] - Onboard Occupancy **#OMS##** [34] - Onboard Occupancy with bi-level dimming **#ODS** - Onboard Daylight **#OCS** - Onboard Occupancy & Daylight	CONNECTED CONTROLS [35] **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	**FU120** - Fuse 120V **FU277** - Fuse 277V **CTB9** [37] - T-bar caddy clip, 9/16" **CTB15** [37] - T-bar caddy clip, 15/16" **CTG9** [37] - Tegular caddy clip, 9/16" **CTG15** [37] - Tegular caddy clip, 15/16" **CST** [37] - Screw slot caddy clip **NA** - None [36] Separate codes with a "+" if more than one is specified. [37] Available with aircraft cable only.	**#COB20( )** - COB downlight 20° **#COB30( )** - COB downlight 30° **#COB40( )** - COB downlight 40° **NA** - None [38] See page 3 for ordering details.
	NA - None			
	[29] Standalone and connected control options cannot be combined. [30] Available with D1 driver and 1 circuit options only. [31] Minimum 4' per zone. Provide control zone length.	[32] Available with flush lens option only. [33] Fixture turns off when no occupancy. [34] Fixture dims to specified light level % (##). [35] Consult factory for connected controls.		

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STATIC WHITE, BIOS

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Module

For a module, specify the options in the parentheses. Example: 1COB20(SW-80CRI-600LM-27K)

MODULE (optional)

MODULE [1,2,3,4]	LIGHT SOURCE	CRI	LUMEN PACKAGE [5]	COLOR TEMP.
#COB20( ) - COB downlight 20° **#COB30( )** - COB downlight 30° **#COB40( )** - COB downlight 40° **NA** - None [1] LED downlight available with Direct only. [2] Minimum 4' fixture and minimum 2' section per COB. Consult factory for other configurations. [3] Specify quantity (#). [4] 6" blank per module.	**SW** - Static white	**80CRI** - 80 CRI **90CRI** - 90 CRI **97CRI** - 97 CRI	**600LM** - 600 lm **1200LM** - 1200 lm **1800LM** - 1800 lm [5] See page 6 for wattages.	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K

Pendant Mounting Code

Standard

For a standard mounting, please refer to the information below.

MOUNTING

ACS - Aircraft cable, standard	**STS** - Stem, standard
• Ø 5" for power canopy • Ø 3" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Power cord is black for black fixtures, and white for all other fixture finishes • Aircraft cable length is 36"	• Ø 5" for power canopy • Ø 5" for non-power canopy • Canopies are black for black fixtures, and white for all other fixture finishes • Stem finish is the same color as fixture • Stem length is 18" • Stem is not field adjustable

Custom

Aircraft Cable

For a custom mounting, specify the options in the parentheses. Example: ACC(3NPC-72IN-W-PCB-SLC)

MOUNTING

ACC( )

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

Stem

For a custom mounting, specify the options in the parentheses. Example: STC(5NPC-36IN-W-STW-SLS)

MOUNTING

STC( )

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

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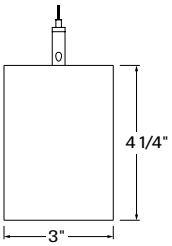
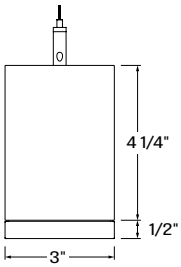
Dimensions

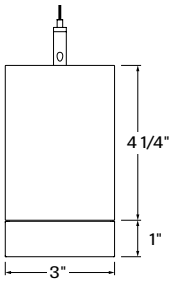
Flush Lens



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Drop lens positions available with HLO direct lens only.

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DIRECT/INDIRECT, DIRECT, INDIRECT

STATIC WHITE, BIOS

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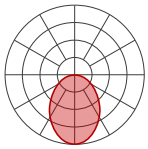
Photometrics

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

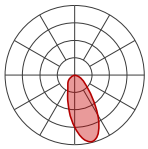
DIRECT OPTICS

HLO (Flush lens)



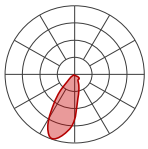
LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

ARO2



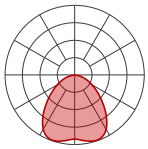
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WRO2



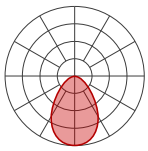
LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.1	99

WDO



LM/FT	W/FT	LM/W
350	3.0	118
500	4.3	116
750	6.7	113
1000	9.2	109
1200	11.3	106

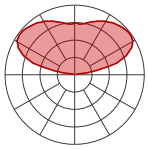
LGO



LM/FT	W/FT	LM/W
350	3.2	108
500	4.7	106
750	7.3	102
1000	10.2	98
1200	12.5	96

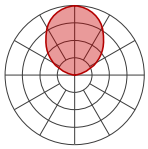
INDIRECT OPTICS

WIO2



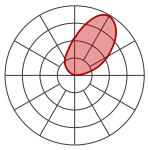
LM/FT	W/FT	LM/W
350	2.4	146
500	3.5	142
750	5.5	137
1000	7.6	132
1200	9.4	128

TIO



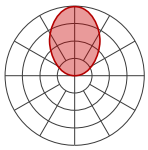
LM/FT	W/FT	LM/W
350	2.7	127
500	4.0	124
750	6.3	119
1000	8.8	114
1200	10.9	110

WAI2



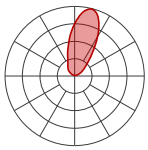
LM/FT	W/FT	LM/W
350	2.5	139
500	3.7	135
750	5.8	130
1000	8.0	125
1200	10.0	120

HLO



LM/FT	W/FT	LM/W
350	2.8	125
500	4.1	123
750	6.3	119
1000	8.6	116
1200	10.6	113

ARO2



LM/FT	W/FT	LM/W
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses, for all Direct and Indirect 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	1.00	0.84
5000K	0.96	1.12	1.04	0.89

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.98	1.02
Drop lens 1.0"	0.96	1.04

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

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

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DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

COB

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

COB Multiplier - CCT/CRI

CCT	80 CRI	90 CRI
2700K	1.10	1.36
3000K	1.03	1.29
3500K	1.00	1.27
4000K	1.00	1.22
5000K	1.00	1.18

COB Wattage

CRI	80 CRI									90 CRI								
COB ANGLE	20°			30°			40°			20°			30°			40°		
Lumen	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800	600	1200	1800
Wattage	5.8	11.7	18.1	6.0	11.9	18.3	6.4	12.6	19.4	7.3	14.8	22.9	7.7	15.0	23.2	8.2	16.1	24.7

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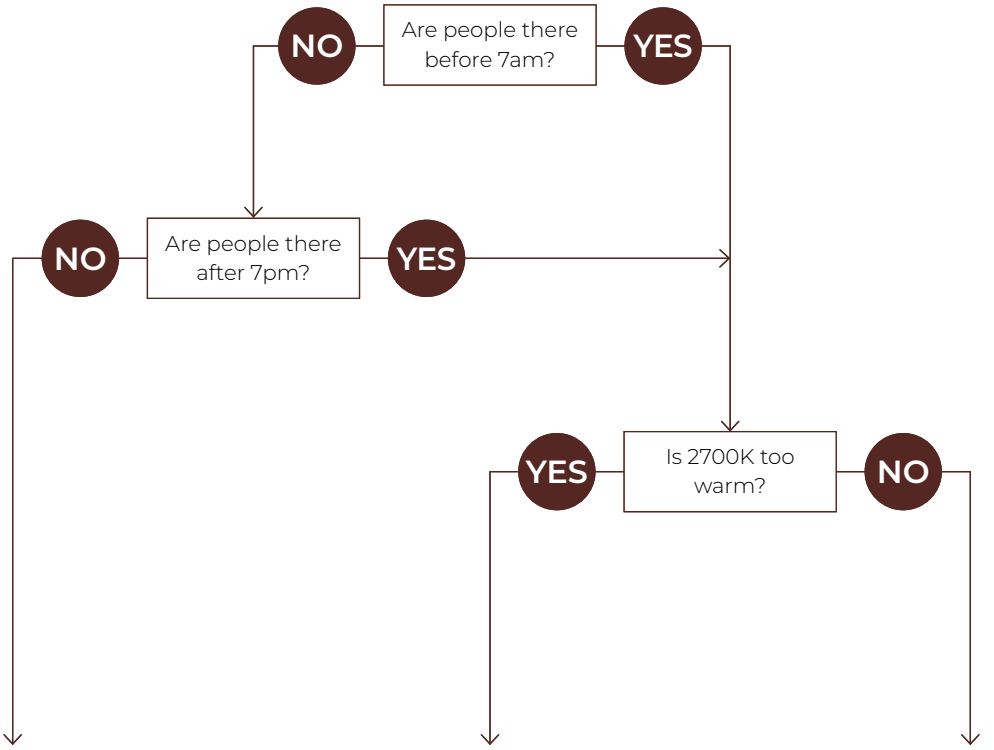
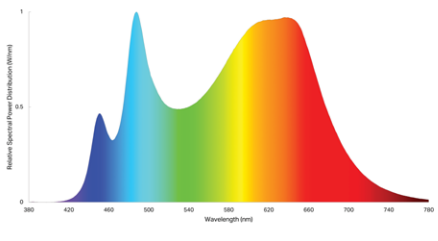
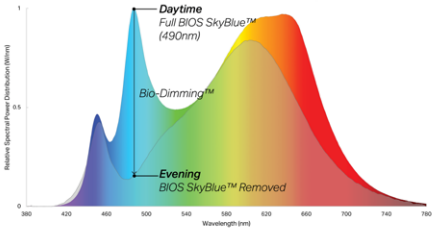
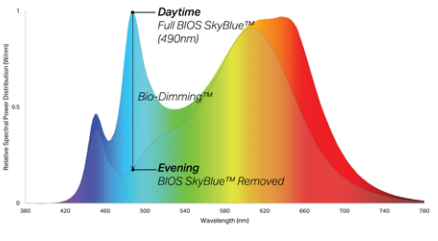
VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable.
Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
		

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VIA3-PENDANT-SPEC-REV4 December 10, 2024

VIA 3 PENDANT

DIRECT/INDIRECT, DIRECT, INDIRECT
STATIC WHITE, BIOS

Lumenwerx

Technical Specifications

DIRECT 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. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Widespread Direct Optic (WDO)
The Widespread Direct Optic (WDO) is designed to distribute light far and wide. As such, it has an excellent luminous efficacy, a light span that is 40% farther than that of our traditional HLO, and it maximizes spacing distance while still creating a sense of uniformity. The lens snaps into place and utilizes nano prismatic optics to mask the diodes that are actually emitting the light.

Low-Glare Optic (LGO)
The Low-Glare Optic (LGO) is designed to cut off high-angled light and control glare. The carefully crafted lens refracts light downward through its center from which it then disperses into a wide conical distribution that negates any illumination at about 40°. The LGO provides the visual comfort of a louver in a smooth acrylic lens.

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.

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. HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)
The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

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VIA 3 PENDANT

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STATIC WHITE, BIOS

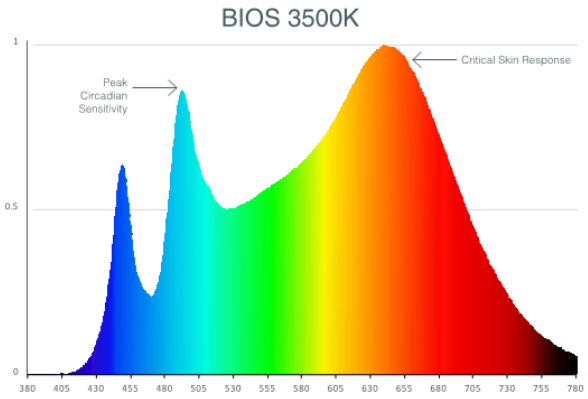
LIGHT SOURCE

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. 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

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.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 7 for details.

LUMINAIRE LENGTH

Via 3 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' for Direct or Indirect fixtures, and 3' for Direct/Indirect fixtures. Lengths can be ordered in 1' and/or 1" increments. 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, ELV, TRIAC, 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 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.

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MOUNTING

Pendant fixtures can be mounted either with aircraft cable or with stem. See page 3 for details.

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.

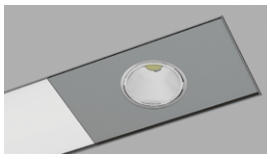
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

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.

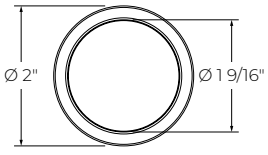
Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

COB

Fixtures with Chip On Board (COB) technology are able to provide a maximum output of 1800 lumens from a discrete 2" aperture on 8" centers. Standard CRI is 80, for 90 and 97 CRI with elevated R9 values, please consult factory. Standard 20°, 30° and 40° beam angles are available, as are custom angles prior factory approval. All our Chip On Board products have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 50,000 hours.



Chip On Board (COB)



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CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
End caps: Die-cast aluminum
Hanger: Chromed griplock securely attached in end caps and/or joiners with stainless steel hardware
Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable
Stem: Ø 1/2" threaded steel tube

WEIGHT

Direct/Indirect	Direct or Indirect
4': 13.23 lbs - 6.0 kg	**4'**: 11.12 lbs - 5.05 kg
8': 26.48 lbs - 12.0 kg	**8'**: 22.25 lbs - 10.1 kg
12': 39.84 lbs - 18.0 kg	**12'**: 33.48 lbs - 15.2 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.

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