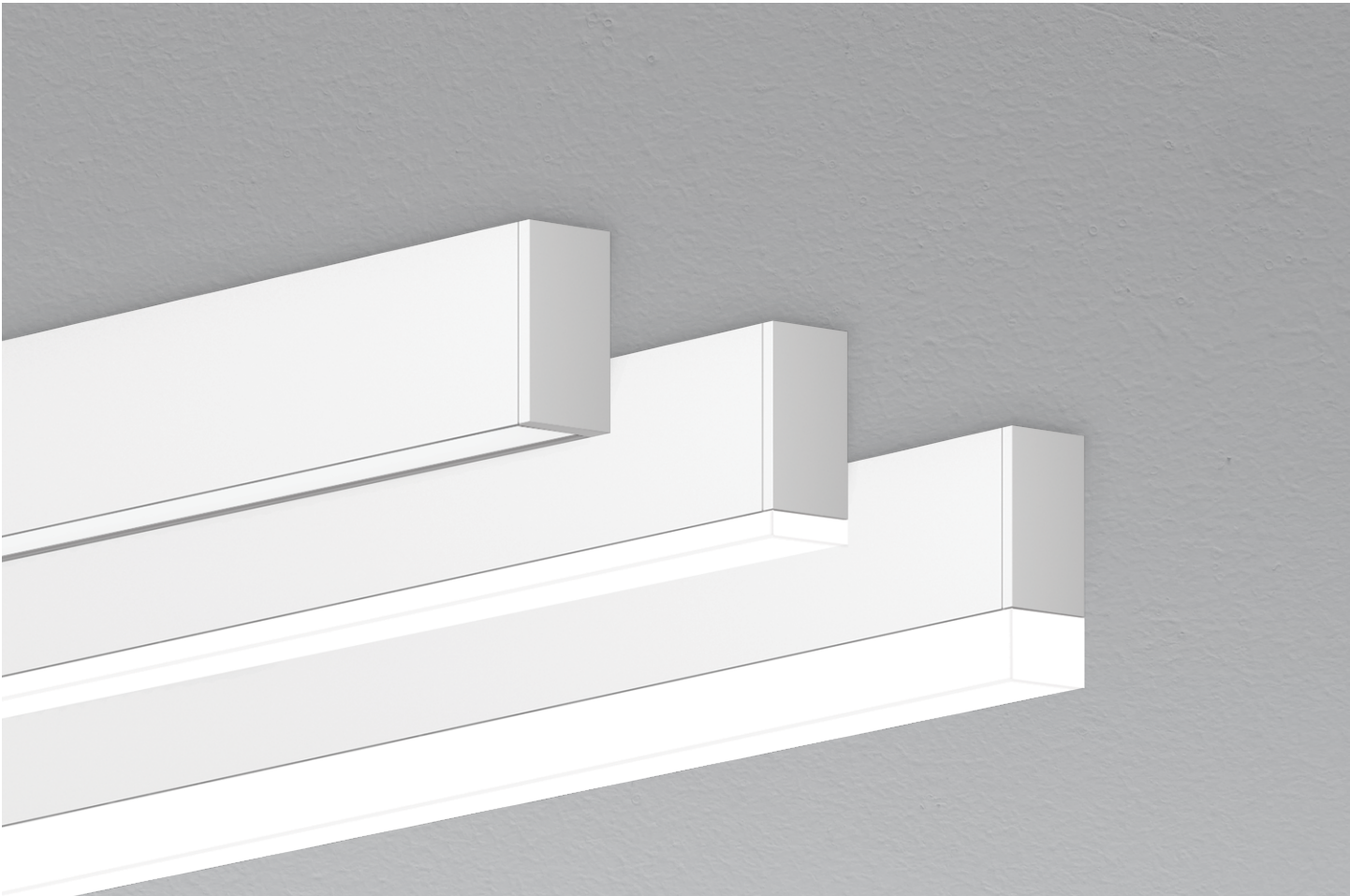


VIA 1.5 SURFACE

DIRECT
STATIC WHITE, BIOS



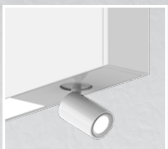
Declare.



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

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 1.5 Surface is offered with Lambertian, widespread, or low-glare optics.

Module Option



DIRECT



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Project: _____

 Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE ²
VIA1.5S	D			
VIA1.5S - Via 1.5" Surface	D - Direct	HLO - High-Efficiency Lambertian Optic WDO - Widespread Direct Optic LGO - Low-Glare Optic MPO - Micro-Prismatic Optic DDO - Domed Deglare Optic	FH ¹ - Flush 0.5D ¹ - 0.5" drop 1.5D ¹ - 1.5" drop ¹ For HLO, specify FH, 0.5D, or 1.5D. ¹ For WDO, LGO, MPO, and DDO, specify FH.	SW - Static white BIOSST ^{3,4} - BIOS Biological Static BIOSDY ^{3,4} - BIOS Biological Dynamic BIOSTU ^{3,4} - BIOS Biological Tunable ² Chromawerx SOLA, DUO, and QUADRO also available. Consult other spec sheets. ³ Only available with low and medium lumen packages. ⁴ See page 5 for details.

CRI	LUMEN PACKAGE	COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI 90CRI ⁵ - 90+ CRI ⁵ Not available with BIOS.	200LMF ⁶ - Hypo output 200 lm/ft 350LMF - Low output 350 lm/ft 500LMF - Medium output 500 lm/ft 750LMF - High output 750 lm/ft 900LMF ^{7,8} - Hyper output 900 lm/ft ⁶ Minimum 4' fixture. ⁷ Not available with WDO/LGO. ⁸ Fixture will be very bright. Use in suitable applications.	27K ⁹ - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K ⁹ - 5000K ⁹ Not available with BIOS.	#FT#IN ¹⁰ - Specify nominal length (#) in 1' and/or 1" increments Standard nominal lengths: Single units: 2' to 12' (up to 8' for MPO and DDO) Continuous runs: lengths over 12' (8' for MPO and DDO) ¹⁰ Available in 2' increments only with BIOSTU/BIOSDY.	120V - 120V 277V - 277V UNV - 120V-277V 347V ¹¹ - 347V ¹¹ Available with D1 driver only.

DRIVER ¹²	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{18,19}	MOUNTING
D1 - 1% 0-10V DA ¹³ - DALI LDE1 ¹³ - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ELV ¹⁴ - ELV 120V TRI ¹⁴ - TRIAC 120V ¹² PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹³ On-site commissioning is required. ¹⁴ Available with 120V only.	1C - 1 circuit #MC ¹⁵ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{16,17} - Generator transfer device fixture ¹⁵ Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. ¹⁶ Minimum 4' fixture. ¹⁷ Not available with 347V.	#EC## ²⁰ - Emergency-powered section #NL## ²⁰ - Night light section #DL## ²⁰ - Daylight section #GTD## ^{20,21,22} - Generator transfer device section #EMB ^{22,23} - Emergency battery NA - None ¹⁸ Specify with multi circuit (#MC) electrical option only. ¹⁹ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ²⁰ Specify quantity (#), and section length in inches (##). ²¹ Minimum 4' section. ²² Not available with 347V. ²³ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	DRC - Drywall ceiling GRD - Grid ceiling

FINISH	CONTROL ^{24,25}	OPTION	MODULE (optional) ^{31,32}
W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	STANDALONE CONTROLS ^{26,27} Specify the quantity (#) of sensors per fixture. #OMS ²⁸ - Onboard Occupancy #OMS## ²⁹ - Onboard Occupancy with bi-level dimming #ODS - Onboard Daylight #OCS - Onboard Occupancy & Daylight CONNECTED CONTROLS ³⁰ LU - Lutron AWNR - Lutron Athena Wireless Node RF Only AWNS - Lutron Athena Wireless Node Sensor ENC - Encelium WL - Cooper Wavelinx AN - Acuity nLight CA - Casambi LG - Legrand NA - None ²⁴ Standalone and connected control options cannot be combined. ²⁵ Available with flush lens option only. ²⁶ Available with D1 driver and 1 circuit options only. ²⁷ Minimum 4' per zone. Provide control zone length. ²⁸ Fixture turns off when no occupancy. ²⁹ Fixture dims to specified light level % (##). ³⁰ Consult factory for connected controls.	FU120 - Fuse 120V FU277 - Fuse 277V NA - None	#MS25() - Micro Spot 25° #MS35() - Micro Spot 35° #MS50() - Micro Spot 50° NA - None ³¹ See page 3 for ordering details. ³² Not available with ELV/TRI driver options.



VIA 1.5 SURFACE



DIRECT
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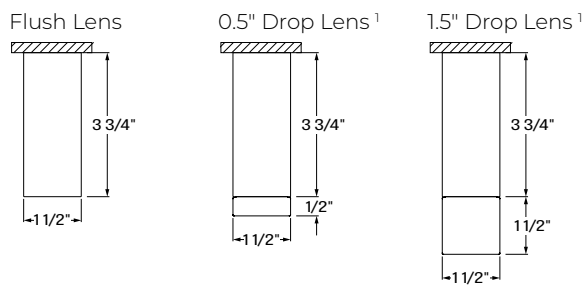
Module Code

For a module, specify the options in the parentheses.
The light source is static white.
CRI of module matches specification of main fixture.

Example: 1MS25(5W-27K-W)

MODULE (optional)			
MODULE ^{1,2}	WATTAGE	COLOR TEMPERATURE	FINISH
#MS25() - Micro Spot 25° #MS35() - Micro Spot 35° #MS50() - Micro Spot 50° ¹ Specify quantity (#). ² 6" Blank per module. Blank finish will match fixture finish.	5W - 5 W, up to 430 lm output	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	W - Matte white B - Matte black

Dimensions



¹Drop lens positions available with HLO only.

VIA 1.5 SURFACE

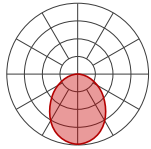


DIRECT
STATIC WHITE, BIOS

Photometrics

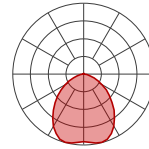
Values calculated based on a 4' fixture at 3500K for all optics.

HLO (Flush lens)



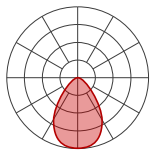
LM/FT	W/FT	LM/W
200	2.7	75
350	4.8	74
500	7.0	72
750	10.9	69
900	13.4	67

WDO



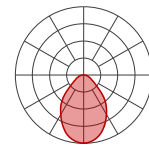
LM/FT	W/FT	LM/W
200	2.7	75
350	4.9	72
500	7.2	69
750	11.6	65

LGO



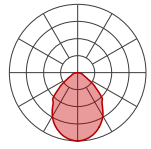
LM/FT	W/FT	LM/W
200	3.1	65
350	5.6	63
500	8.4	60
750	13.5	56

MPO



LM/FT	W/FT	LM/W
200	2.2	92
350	3.9	89
500	5.8	86
750	9.2	81
900	11.5	78

DDO



LM/FT	W/FT	LM/W
200	2.2	89
350	4.1	86
500	6.1	83
750	9.7	77
900	12.2	74

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and drop lenses for all photometric tables.

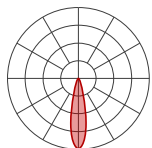
Multiplier - CCT/CRI

CCT	WATTS		LPW
	80+ CRI / 90+ CRI	80+ CRI / 90+ CRI	
2700K	1.05	0.95	
3000K	1.02	0.98	
3500K	1.00	1.00	
4000K	1.00	1.00	
5000K	0.96	1.04	

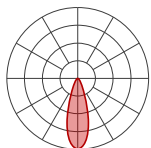
Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.89	1.12
Drop lens 1.5"	0.88	1.14

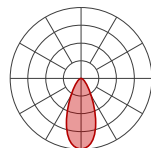
MICRO SPOT MODULE



Micro Spot 25°



Micro Spot 35°



Micro Spot 50°

DELIVERED LUMENS

Wattage	50									
	80+					90+				
CRI	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K
Lumen	373	400	400	432	432	324	344	344	345	372

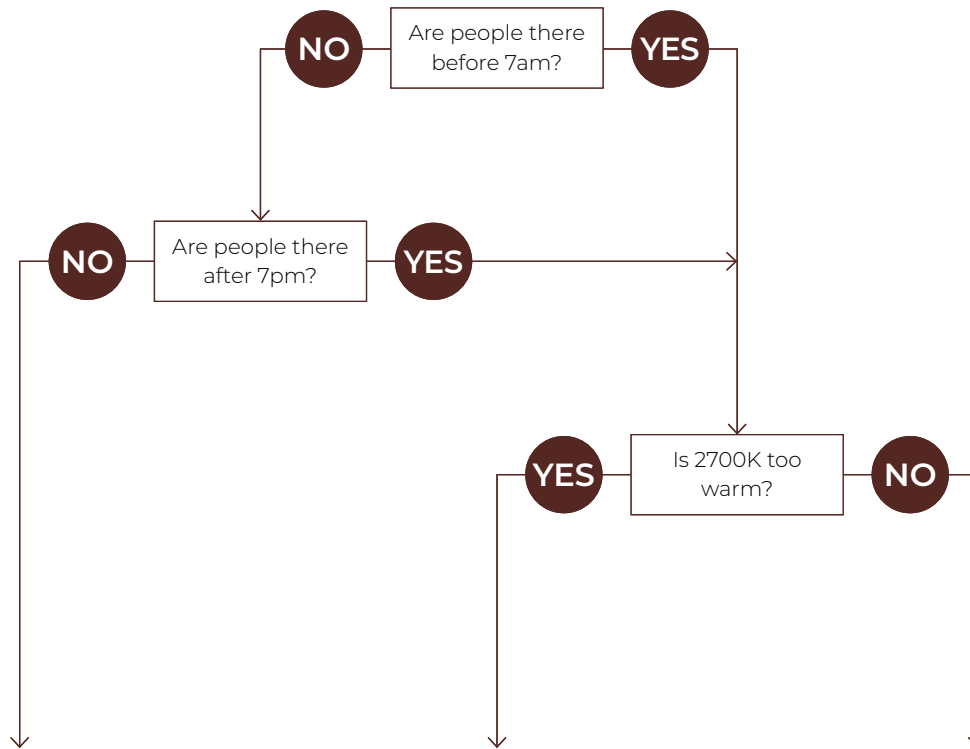
VIA 1.5 SURFACE



DIRECT
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

VIA 1.5 SURFACE



DIRECT
STATIC WHITE, BIOS

Technical Specifications

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 1.12.

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.

Micro-Prismatic Optic (MPO)

The Micro-Prismatic Optic (MPO) delivers high-efficiency, low-glare illumination with UGR <17. Its precision-engineered lens, composed of thousands of tiny prisms, diffuses light to reduce glare, producing a ceiling plane that reads smooth from a distance while revealing subtle texture up close. The result is balanced, efficient illumination with a refined architectural presence.

Domed Deglare Optic (DDO)

The Domed Deglare Optic (DDO) features a transparent, domed lens that delivers low-glare illumination and visual comfort with a refined textured presence on the ceiling plane.

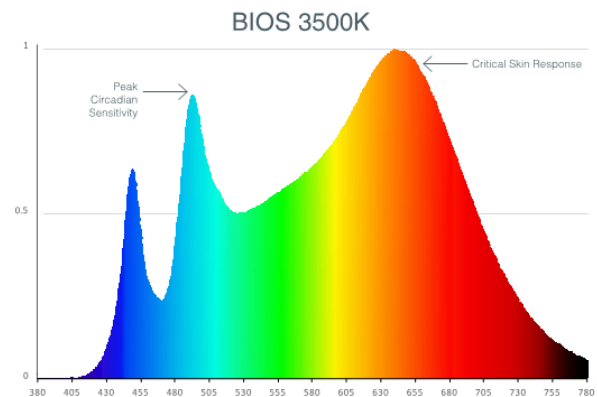
LIGHT SOURCE

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 5 for details.

LUMINAIRE LENGTH

Via 1.5 is available in standard lengths of 2' to 12' (up to 8' for MPO and DDO). Continuous runs are available for run lengths over 12' (8' for MPO and DDO). Exact run length must be noted in the product code. The minimum length is 2', and can be ordered in 1' and/or 1" increments, and 2' increments for BIOSTU and BIOSDY. 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. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

VIA 1.5 SURFACE



DIRECT
STATIC WHITE, BIOS

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 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

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

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, 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.

VIA 1.5 SURFACE



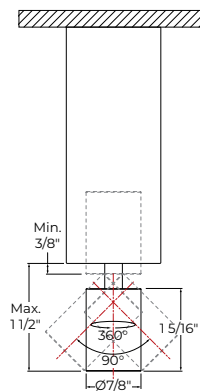
DIRECT
STATIC WHITE, BIOS

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.

MICRO SPOT MODULE

The Micro Spot is a $\varnothing 7/8"$ x $1 5/16"$ adjustable spotlight that extends, retracts, rotates 360°, and tilts 90°. Its LED light source is coupled with a TIR refractor to provide beam angles of 25°, 35°, and 50°, while producing up to 400 lumens. LED light source CCT options are 2700K, 3000K, 3500K, 4000K, and 5000K available in either 80+ CRI or 90+ CRI. The Micro Spot is offered in a white or black finish. The Micro Spot driver is mounted within the luminaire housing and accepts universal input voltage (120-277 VAC) with 0-10V dimming control.



Micro Spot

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

WEIGHT

4': 7.16 lbs - 3.25 kg

8': 14.32 lbs - 6.5 kg

12': 21.48 lbs - 9.75 kg

CERTIFICATIONS

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

Declare: [LBC Red List Approved](#)

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.