

VIA 5 SURFACE PATTERN

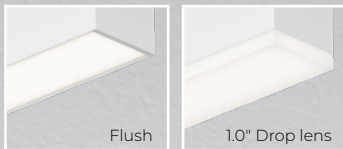


DIRECT
STATIC WHITE, BIOS

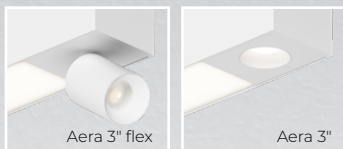


SENSORS
For latest information on sensors, click [here](#).

Lens Positions



Module Options



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 in which a combination of luminaires forms part of a custom design that can also incorporate less conventional acute and obtuse angles. Via 5 Surface is offered with Lambertian, asymmetric, or wall wash optics.

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Project: _____

 Type: _____

Order Guide

A drawing of your pattern is required - anything from a line drawing to an architectural drawing.

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE ²	CRI
VIA5SPAT	D				
VIA5SPAT - Via 5" Surface Pattern	D - Direct	HLO - High-Efficiency Lambertian Optic ARO2 - Asymmetric Refractive Optic WRO2 - Wall Wash Refractive Optic	FH ¹ - Flush 1.0D ¹ - 1.0" drop ¹ For HLO, specify FH or 1.0D. ¹ For ARO2 and WRO2, 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 7 for details.	80CRI - 80+ CRI 90CRI ⁵ - 90+ CRI ⁵ Not available with BIOS.

LUMEN PACKAGE	COLOR TEMP.	PATTERN LENGTH	CORNER TYPE ¹¹
350LMF ⁶ - Hypo output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF - High output 1000 lm/ft 1200LMF - Ultra high output 1200 lm/ft 1500LMF ^{7,8} - Hyper output 1500 lm/ft ⁶ Minimum 3' fixture. ⁷ Available with HLO only. 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(##X##FT##IN-##X##FT##IN-...) ¹⁰ - ##FT##IN: total nominal length of pattern in feet and/or inches ##X: quantity of each section ##FT##IN: nominal length of each section in feet and/or inches Continuous runs: lengths over 12' ¹⁰ Minimum 2'.	#LEV2C(A##) - 2-way leveled corner #LEV3C(A##) ^{12,13} - 3-way leveled corner #LEV4C(A##) ^{12,13} - 4-way leveled corner #INN2C(A90) ^{13,14} - 2-way inner corner ANGLE (A##): (A60) ¹³ - 60° (A90) - 90° (A120) - 120° (A##) ¹⁵ - Custom ¹¹ Specify quantity (#) and angle (A##) for each required corner type. If more than one option is specified, separate codes with a "+", e.g. 1LEV2C(A90)+2LEV2C(A60). ¹² Separate angles with a "+" if more than one type is required, e.g. 1LEV4C(A60+A120). ¹³ Not available with ARO2/WRO2. ¹⁴ Available with 90° only. Consult factory for other angles. ¹⁵ Minimum angle is 45°. For ARO2/WRO2, minimum angle is 75°.

VOLTAGE	DRIVER ¹⁷	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{23,24}	MOUNTING CEILING	MOUNTING WALL ²⁹
120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁶ - 347V ¹⁶ Available with DI driver only.	D1 - 1% 0-10V DA ¹⁸ - DALI LDE1 ¹⁸ - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ELV ¹⁹ - ELV 120V TRI ¹⁹ - TRIAC 120V ¹⁷ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁸ On-site commissioning is required. ¹⁹ Available with 120V only.	1C - 1 circuit #MC ²⁰ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{21,22} - Generator transfer device fixture ²⁰ Specify total number of circuits (#), including any required for electrical section or module options. Provide drawing or layout specifications. Minimum 4' section per circuit. ²¹ Minimum 4' fixture. ²² Not available with 347V.	#EC## ²⁵ - Emergency-powered section #NL## ²⁵ - Night light section #DL## ²⁵ - Daylight section #GTD## ^{25,26,27} - Generator transfer device section #EMB ^{27,28} - Emergency battery NA - None ²³ Specify with multi circuit (#MC) electrical option only. ²⁴ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ²⁵ Specify quantity (#), and section length in inches (##). ²⁶ Minimum 4' section. ²⁷ Not available with 347V. ²⁸ Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section.	DRC - Drywall ceiling GRD - Grid ceiling	DRM - Drywall mounting DMB - Drywall mounting bracket NA - Not applicable ²⁹ Not available with leveled corners.

FINISH	CONTROL ^{30,31}	OPTION	MODULE (optional) ³⁷
W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	STANDALONE CONTROLS ^{32,33} Specify the quantity (#) of sensors per fixture. #OMS ³⁴ - Onboard Occupancy #OMS## ³⁵ - Onboard Occupancy with bi-level dimming #ODS - Onboard Daylight #OCS - Onboard Occupancy & Daylight NA - None ³⁰ Standalone and connected control options cannot be combined. ³¹ Available with flush lens option only. ³² Available with D1 driver and 1 circuit options only. ³³ Minimum 4' per zone. Provide control zone length.	CONNECTED CONTROLS ³⁶ 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 ³⁴ Fixture turns off when no occupancy. ³⁵ Fixture dims to specified light level % (##). ³⁶ Consult factory for connected controls.	FUI20 - Fuse 120V FU277 - Fuse 277V NA - None #AE3FCY() - Aera 3" Flex Cylinder #AE3R() - Aera 3" Round Downlight NA - None ³⁷ See page 3 for ordering details. • Only available with static white. • Only available with flush lens. • Not available with EMB. • Consult factory for compatibility with controls.



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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.
- Minimum 4' fixture and minimum 2' section per module. Consult factory for other configurations.

Example: 1AE3FXCY(4.5IN-FTMB-BVL-FTMB-SDL-15DEG-27K-NA-10W)

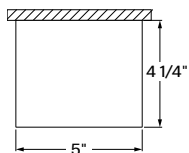
MODULE ^{1,2}	HEIGHT	CYLINDER FINISH	BAFFLE	BAFFLE FINISH	LENS AT BAFFLE	BEAM ANGLE	COLOR TEMP.	ACCESSORIES AT LIGHT ELEMENT ^{4,5}	WATTAGE
#AE3FXCY() - Aera 3" Flex Cylinder ¹ Specify quantity (#). ² 6" Blank per module. Blank finish will match fixture finish.	4.5IN - 4.5"	FTMB - Matte black FTMW - Matte white FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL #	BVL - Bevel PHL - Pinhole BVLD - Decorative bevel	FTMB - Matte black FTMW - Matte white FSSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL #	SDL ³ - Soft diffused lens, Solite FDL ³ - Frosted diffused lens CL ³ - Clear lens NOL - No lens ³ Not available with LSDL/LFDL accessories.	15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood 50DEG - 50° Wide flood	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	LSDL - Soft diffused lens, Solite LFDL - Frosted diffused lens LS - Linear spread HEX - Hex louver NA - None ⁴ Choose up to 2 options. Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. ⁵ LSDL and LFDL cannot be combined. LS and HEX cannot be combined.	10W - 10 W output, up to 1132 lm 14W - 14 W output, up to 1545 lm

Example: 1AE3R(10W-10DEG-27K-SDL-FTMB)

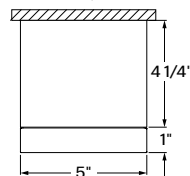
MODULE ^{1,2,3}	WATTAGE	BEAM ANGLE	COLOR TEMP.	LENS AT BAFFLE	BAFFLE FINISH
#AE3R() - Aera 3" Round Downlight ¹ Specify quantity (#). ² 6" Blank per module. Blank finish will match fixture finish. ³ Module is trimless.	10W - 10 W output, up to 1132 lm 14W - 14 W output, up to 1545 lm	10DEG - 10° very narrow spot 15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood 50DEG - 50° Wide flood	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	SDL - Soft diffused lens, solite FDL - Frosted diffused lens CL - Clear lens	FTMB - Matte black FTMW - Matte white FSSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL#

Dimensions

Flush Lens



1.0" Drop Lens ¹



¹Only available with HLO.

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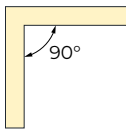
Pattern Layout

CORNER TYPES

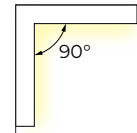
LEVELED CORNERS

INNER CORNER

2-way

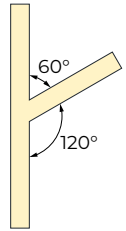


1LEV2C(A90)

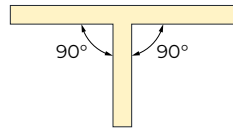


1INN2C(A90)

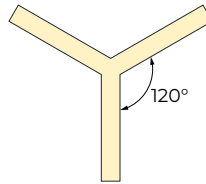
3-way



1LEV3C(A60+A120)

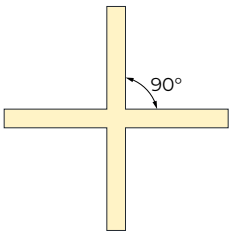


1LEV3C(A90+A90)

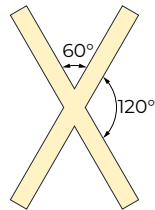


1LEV3C(A120)

4-way

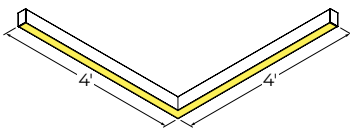


1LEV4C(A90)

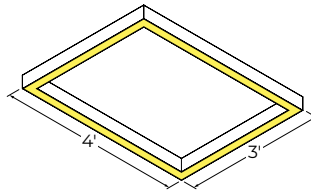


1LEV4C(A60+A120)

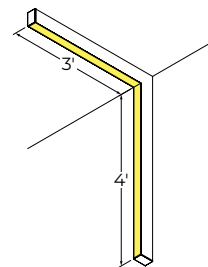
EXAMPLES



8FT(2X4FT)-1LEV2C(A90)



14FT(2X4FT-2X3FT)-4LEV2C(A90)



7FT(1X3FT-1X4FT)-1INN2C(A90)

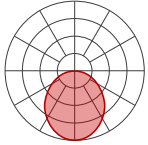
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Photometrics

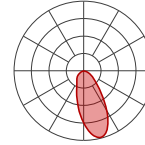
Values calculated based on a 4' fixture at 3500K for all optics.

HLO (Flush lens)



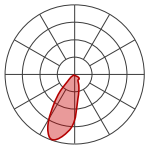
LM/FT	W/FT	LM/W
350	2.7	132
500	3.9	129
750	6.0	126
1000	8.2	122
1200	10.1	119
1500	13.0	116

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

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and lens positions for all photometric tables.

Multiplier - CCT/CRI

CCT	WATTS	
	80+ CRI / 90+ CRI	LPW 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 - Lens position

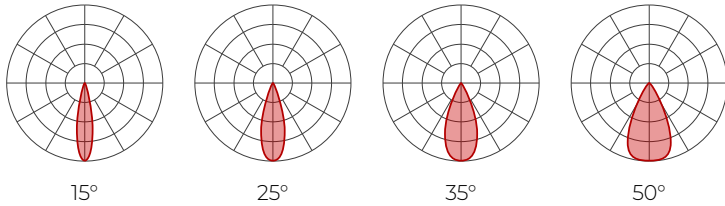
DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 1.0"	0.88	1.12

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AERA 3" FLEX MODULE

Values calculated based on 3500K and SDL lens option.



Delivered lumens (LM)

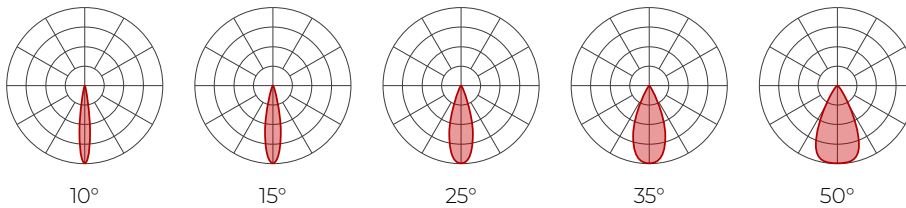
CRI	80+ CRI				90+ CRI			
	15°	25°	35°	50°	15°	25°	35°	50°
BEAM								
10 W	1056	1127	1132	1003	987	1053	1058	937
14 W	1441	1539	1545	1370	1347	1438	1444	1280

Efficacy (LM/W)

CRI	80+ CRI				90+ CRI			
	15°	25°	35°	50°	15°	25°	35°	50°
BEAM								
10 W	106	113	113	100	99	105	106	94
14 W	103	110	110	98	96	103	103	91

AERA 3" MODULE

Values calculated based on 3500K and SDL lens option.



Delivered lumens (LM)

CRI	80+ CRI					90+ CRI				
	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
BEAM										
10 W	951	1056	1127	1132	1003	888	987	1053	1058	937
14 W	1298	1441	1539	1545	1370	1213	1347	1438	1444	1280

Efficacy (LM/W)

CRI	80+ CRI					90+ CRI				
	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
BEAM										
10 W	95	106	113	113	100	89	99	105	106	94
14 W	93	103	110	110	98	87	96	103	103	91

Please follow the multiplier tables to ensure correct lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

BAFFLE	
Bevel	1
Pinhole	0.92
Decorative bevel	1

LENS AT BAFFLE *	
SDL - Soft diffused lens, Solite	1
FDL - Frosted diffused lens	0.8
CL - Clear lens	1.1
NOL - No lens	1.1

ACCESSORIES AT LIGHT ELEMENT *	
LSDL - Soft diffused lens, Solite	1
LFDL - Frosted diffused lens	0.8
LS - Linear spread	0.84
HEX - Hex louver	0.86

* When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory, e.g. NOL + LSDL + LS = 1.1 x 1 x 0.84 = 0.924

Please follow the multiplier tables to ensure correct lumen value.

CCT	
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

LENS AT BAFFLE	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1

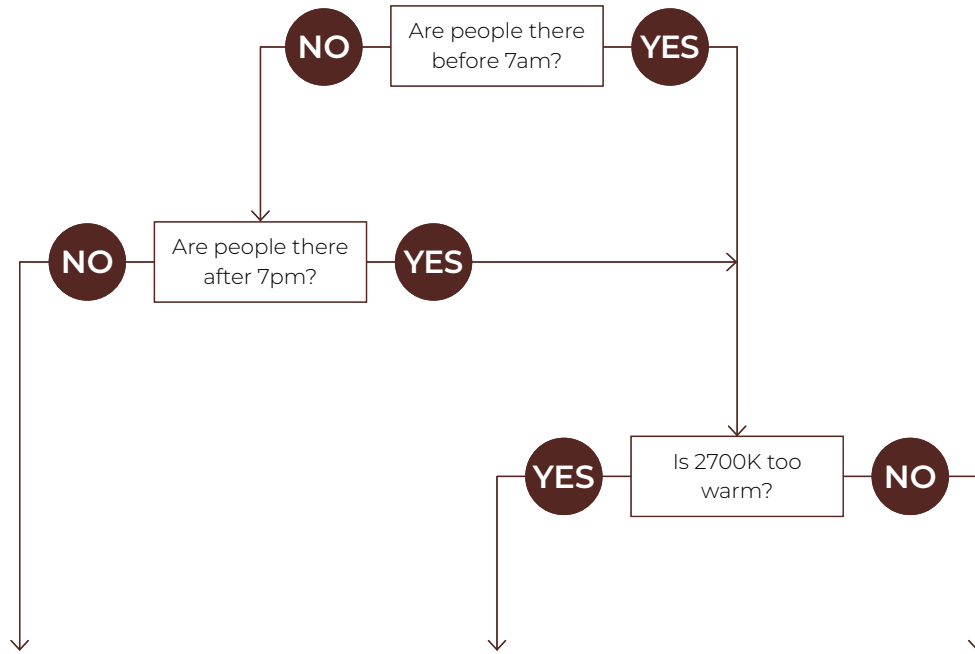
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BIOS

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 e.g. 40K - 4000K stays as 4000K when dimmed	500K shift when dimmed e.g. 40K - 4000K changes to 3500K when dimmed	Dims to 2700K e.g. 40K - 4000K changes to 2700K when dimmed
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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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 with different lens position options, HLO has a spacing criterion of 1.22.

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.

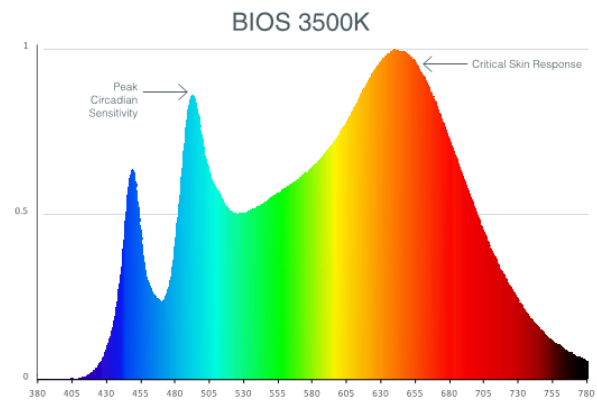
LIGHT SOURCE

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.

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 (120-277 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.

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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.

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DIRECT
STATIC WHITE, BIOS

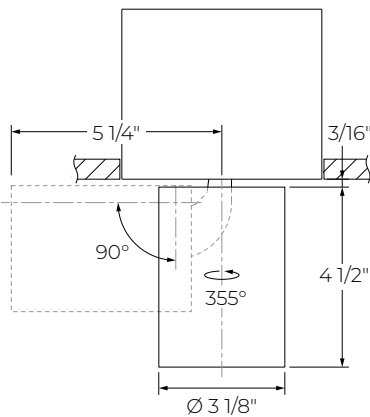
Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

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.

AERA FLEX MODULE

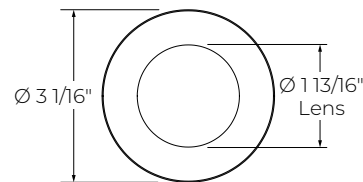
Aera Flex is a round spotlight that rotates 355° and tilts 90°, available in four beam angles of 15°, 25°, 35°, and 50°. LED light source CCT options are 2700K, 3000K, 3500K, 4000K, and 5000K available in either 80+ CRI or 90+ CRI. Offered in 4.5" height with three baffle options: bevel, pinhole, and decorative bevel. Aera Flex is available in a wide range of colors.



Aera 3" Flex

AERA MODULE

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI or 90+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 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.



Aera 3"

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

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.