

CURVIA 2 XYZ

PATTERN

PENDANT - RECESSED - SURFACE - WALL



Declare.



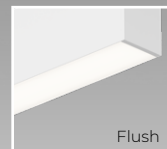
Curvia XYZ fixtures carry light along refined curvilinear paths from one plane to another with exceptional agility, creating unprecedented dynamic effects. Featuring linear and curved segments, multi-way connectors, corners, versatile mounting options, and our Supreme Grip™ technology for secure lensing, Curvia XYZ embodies a wealth of top-quality lighting solutions to explore.

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

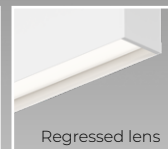


Curvia Additions Brochure

Lens Positions

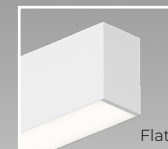


Flush

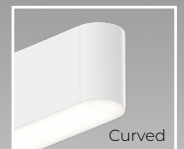


Regressed lens

End Cap



Flat



Curved

Curvia Family (Refer to other spec sheets)

Curvia Mini

1"



Ring

Curvia Slim

1", 2"



Ring
Shapes
Pattern

Curvia Slim Seal

1", 2"



Ring
Shapes
Pattern

Curvia Prism

2"



Ring
Shapes
Pattern

Curvia

2", 3", 4"



Ring
Shapes
Pattern

Curvia XYZ

2", 3"



Pattern

Curvia Horizon

2", 3"



Ring
Shapes

Curvia Perimeter

2", 3", 4", 5"



Pattern

Curvia Seal Perimeter

2", 3", 4"



Pattern

Curvia Seal

2", 3", 4"



Ring
Shapes
Pattern

Curvia Acoustix

2"



Ring
Shapes
Pattern

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www.lumenwerx.com



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CURVIA2-XYZ-PATTERN-SPEC-REV3 March 24, 2026

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Project: _____

Type: _____

Order Guide

A 3D Revit file is required for quoting and factory shop drawings. For simple patterns, a detailed sketch could suffice.





LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC	LENS POSITION	INDIRECT OPTIC <small>Specify NA for Direct fixture</small>	LIGHT SOURCE ²
CURV2XYZPAT		HLO			

CURV2XYZPAT - Curvia 2" XYZ Pattern	DI ¹ - Direct/Indirect D - Direct ¹ Only available for Pendant mounting.	HLO - High-Efficiency Lambertian Optic	FH - Flush RG - Regressed	HLO - High-Efficiency Lambertian Optic NA - Not applicable	SW - Static white FS - Full spectrum static white ² Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.
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CRI	DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACKAGE <small>Specify NA for Direct fixture</small>	COLOR TEMPERATURE	TOTAL PATTERN LENGTH
<u>Static white</u> 80CRI - 80+ CRI 90CRI - 90+ CRI	<u>Full spectrum</u> 95CRI - 95+ CRI	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF - High output 1000 lm/ft	27K - 2700K 30K - 3000K 35K - 3500K	40K - 4000K 50K - 5000K

				#FT#IN - Specify total pattern length (#) in 1' and/or 1" increments
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CORNER TYPE ^{3,4}	INTERSECTION TYPE ^{5,9,10}

CURVED CORNER ^{5,6}	STRAIGHT CORNER ⁷	CURVED INTERSECTION	STRAIGHT INTERSECTION
#LEVC - Curved leveled corner #INNC - Curved inner corner #OUTC - Curved outer corner 	#LEVS(A##) - Straight leveled corner #INNS(A##) - Straight inner corner #OUTS(A##) - Straight outer corner 	#TCI - Soft T curved intersection #XCI - Soft X curved intersection #YCI - Soft Y curved intersection #CCI - Soft C curved intersection 	#TSI - Sharp T straight intersection #XSI - Sharp X straight intersection #YSI - Sharp Y straight intersection 
NA - None		CU ¹¹ - Custom	NA - None

³ See page 6 for details.
⁴ If more than one option is specified, separate codes with a "+", e.g. 2LEVC+1INNS(A45).
⁵ Minimum radius is 8" for LEVC, 12" for INNC, and 18" for OUTC. Consult factory for smaller radii.
⁶ Specify quantity (#), e.g. 2INNC.
⁷ Specify quantity (#) and angle (A##), e.g. 2INNS(A90).
⁸ See page 6 for details.
⁹ If more than one option is specified, separate codes with a "+", e.g. 1TCI+2YSI.
¹⁰ Specify quantity (#) for each required intersection type.
¹¹ Provide a drawing for custom intersections.

VOLTAGE	DRIVER ¹³	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{21,22}

120V - 120V 277V - 277V UNV - 120V-277V 347V ¹² - 347V ¹² Only available with DI driver. Subject to factory evaluation.	D1 - 1% 0-10V ELV ¹⁴ - ELV 120V TRI ¹⁴ - TRIAC 120V DA ¹⁵ - DALI LDEI ¹⁵ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ¹³ Integral or remote subject to factory evaluation. Code will be updated with prefix "R" if factory determines driver to be remote. ¹⁴ Only available with 120V. ¹⁵ On-site commissioning is required.	1C - 1 circuit 2C ¹⁶ - 2 circuits #MC ¹⁷ - Multi circuit ¹⁶ Only available for Direct/Indirect. Separate direct and indirect circuits. ¹⁷ Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit for integral drivers. ¹⁸ Integral or remote subject to factory evaluation. GTD must be housed with the driver. ¹⁹ Not available with 347V. ²⁰ Minimum 18" radius for integral GTD.	EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{18,19,20} - Generator transfer device fixture ²¹ Specify with multi circuit (#MC) electrical option only. ²² Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ²³ Specify quantity (#), and section length in inches (##). ²⁴ Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. ²⁵ Not available with 347V. ²⁶ Minimum 18" radius for integral GTD. ²⁷ Specify quantity (#). Each battery powers a 4' linear section. Minimum length of linear section is 5' for Direct and 8' for Direct/Indirect. ²⁸ All batteries will be on the same circuit and power the direct LEDs.
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MOUNTING ²⁹	FINISH	END CAP	OPTIONS ³¹

PENDANT ³⁰ ACS - Aircraft cable, standard STS - Stem, standard ACC() - Aircraft cable, custom STC() - Stem, custom ²⁹ To specify multiple mounting, separate codes with a "+" (e.g. ACS+DRC). ³⁰ Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.	RECESSED DTR - Trim DMF - Drywall mud flange SURFACE DRC - Drywall ceiling WALL DRM - Drywall mounting	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	FL - Flat CV - Curved FUI20 - Fuse 120V FU277 - Fuse 277V CTB9 ³² - T-bar caddy clip, 9/16" CTB15 ³² - T-bar caddy clip, 15/16" CTG9 ³² - Tegular caddy clip, 9/16" ³¹ Separate codes with a "+" if more than one is specified. ³² Only available with pendant mounting aircraft cable option. ³³ Only available with recessed mounting.
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Pendant Mounting Code

Aircraft Cable

Standard

ACS - Aircraft cable, 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"

Stem

Standard

STS - Stem, standard

- 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

Example: ACC(3NPC-72IN-W-PCB-NA)

ACC() - Aircraft cable, custom

NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTION
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 <small>¹ Maximum length is 288". For longer lengths, please consult factory.</small>	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM ² - Seismic mounting SLC ² - Sloped ceiling for aircraft cable NA - None <small>² Not available with the Ø 3" non-power canopy size.</small>

Custom

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

STC() - Stem, custom

NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTION
5NPC - Ø 5" non-power canopy	18IN - 18" 36IN - 36" #IN ³ - Specify length in inches <small>³ Minimum length is 6". Maximum length is 72". Stem is not field adjustable.</small>	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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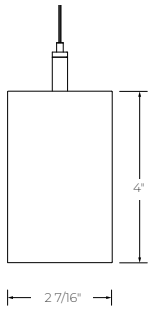


Dimensions

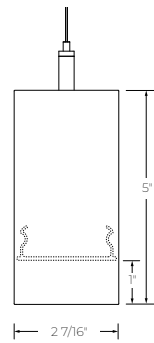
PENDANT

DIRECT/INDIRECT

Flush Lens

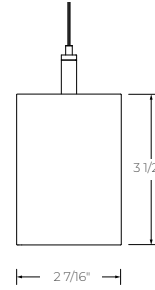


Regressed Lens

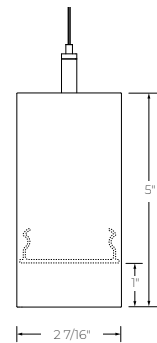


DIRECT

Flush Lens

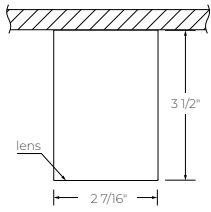


Regressed Lens

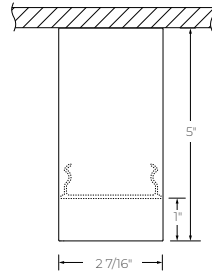


SURFACE

Flush Lens

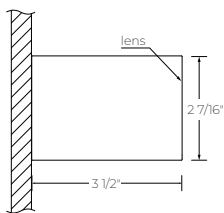


Regressed Lens

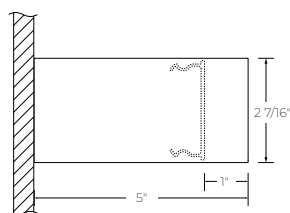


WALL

Flush Lens



Regressed Lens



CURVIA 2 XYZ

PATTERN

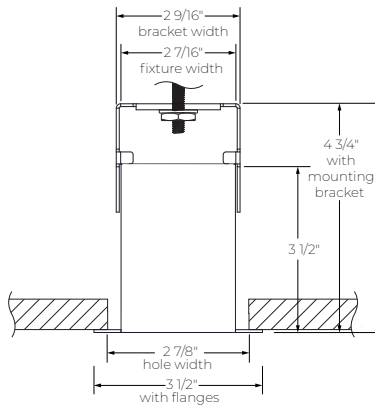
PENDANT - RECESSED - SURFACE - WALL



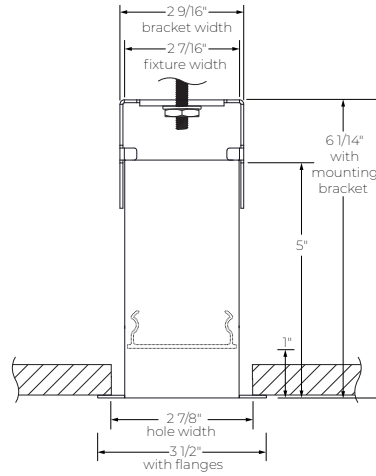
RECESSED

DTR - Trim

Flush Lens

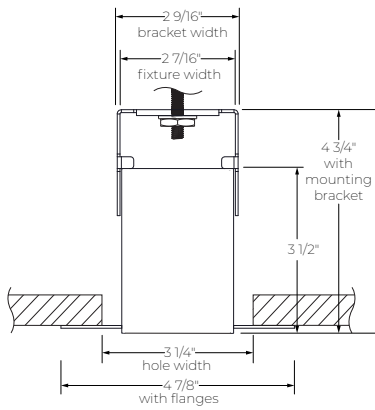


Regressed Lens

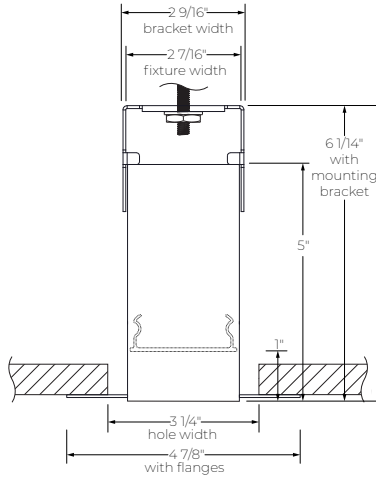


DMF - Drywall mud flange

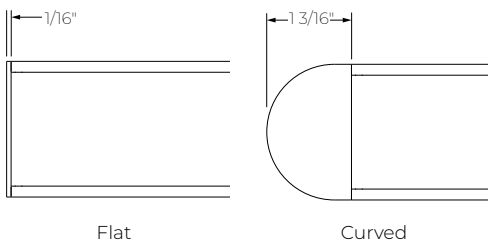
Flush Lens



Regressed Lens



END CAP



Flat

Curved



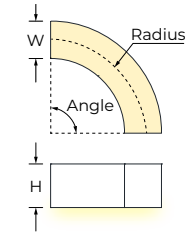
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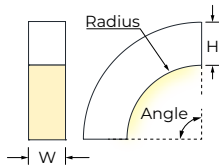
PENDANT - RECESSED - SURFACE - WALL



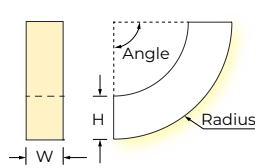
CURVED CORNERS



LEVC - Curved leveled corner



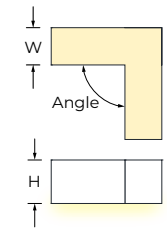
INNOC - Curved inner corner



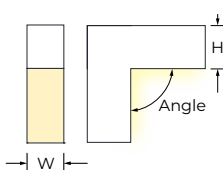
OUTOC - Curved outer corner

	DIRECT	DIRECT/INDIRECT
Height (H)	3 1/2"	4"
Width (W)	2 7/16"	

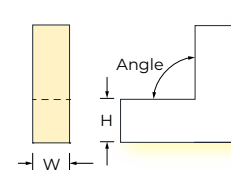
STRAIGHT CORNERS



LEVS(A##)

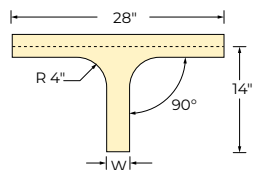


INNNS(A##)

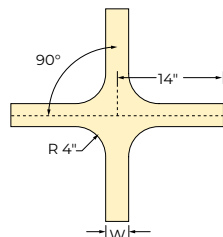


OUTS(A##)

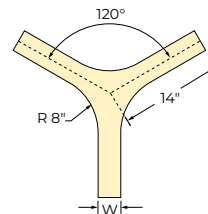
CURVED INTERSECTIONS



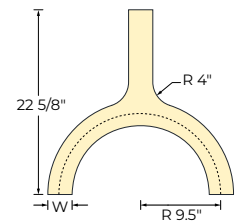
TCI - Soft T curved



XCI - Soft X curved

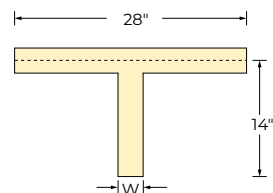


YCI - Soft Y curved

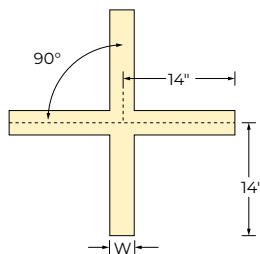


CCI - Soft C curved

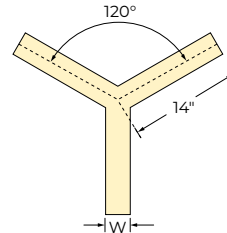
STRAIGHT INTERSECTIONS



TCI - Sharp T straight



XCI - Sharp X straight



YCI - Sharp Y straight

CURVIA 2 XYZ

PATTERN

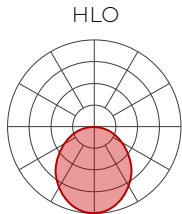
PENDANT - RECESSED - SURFACE - WALL



Photometrics

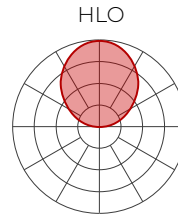
Values calculated based on 4' straight segments at 3500K.

DIRECT OPTIC



LM/FT	W/FT	LM/W
350	3.1	113
500	4.6	109
750	7.2	104
1000	10.1	99

INDIRECT OPTIC



LM/FT	W/FT	LM/W
350	2.4	149
500	3.5	145
750	5.4	139

MULTIPLIER TABLES

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

Multiplier - CCT

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 - Lens position

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Regressed lens	0.99	1.00

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

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

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Examples



Ceiling to wall



Wall to wall



Pendant elevation



Intersections



Curved ceiling

CURVIA 2 XYZ

PATTERN

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Technical Specifications

OPTIC

High-Efficiency Lambertian Optic (HLO)

Lumenwerx's High-Efficiency Lambertian Optic is engineered with reflective sidewalls that distribute LED output across acrylic shielding. To negotiate the curves of Lumenwerx rounded fixtures, the HLO is equipped with proprietary SupremeGrip™ technology, which keeps the optic securely in place.

LIGHT SOURCE

Static white

Custom 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. 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.

Full spectrum static white

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

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.

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.

Battery

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

Pendant: Pendant fixtures can be mounted either with aircraft cable or with stem.

Recessed: Recessed fixtures can be mounted in ceilings with trim or mud flange options.

Surface: Surface fixtures can be mounted directly to drywall and hard surface ceilings, hardware supplied by others. A minimum of 6" from the vertical wall is required.

Wall: Wall fixtures can be horizontally mounted to the wall. A minimum of 6" from adjacent wall is required.

FINISH

Interior: 95% reflective matte powder coated white paint.

Exterior: Matte white, matte black or aluminum powder coating. Custom finishes are also available.

CONSTRUCTION

Housing: Extruded aluminum and aluminum sheet, up to 90% recycled content

Reflectors: Aluminum

Optic: Acrylic

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

Pendant Direct: 2 lb/ft - 0.91 kg/ft

Pendant Direct/Indirect: 2.5 lb/ft - 1.13 kg/ft

Recessed: 2.5 lb/ft - 1.13 kg/ft

Surface: 2 lb/ft - 0.91 kg/ft

Wall: 2 lb/ft - 0.91 kg/ft

CERTIFICATIONS

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

IC rated: Suitable for direct contact with insulation. For Recessed mounting only.

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.