

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

Curvia Family (Refer to other spec sheets)

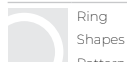
Curvia Mini
1"



Curvia Prism
2"



Curvia
2", 3", 4"



Curvia XYZ
2", 3"



Curvia Horizon
2", 3"



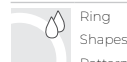
Curvia Perimeter
2", 3", 4", 5"



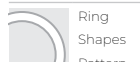
Curvia Seal
Perimeter
2", 3", 4"



Curvia Seal
2", 3", 4"



Curvia Acoustix
2"



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Project: _____

Type: _____

Order Guide

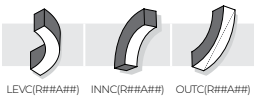



A 3D Revit file is required for quoting and factory shop drawings. For simple patterns, a detailed sketch could suffice.

LUMINAIRE ID	DISTRIBUTION	OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE ²
CURV2XYZPAT		HLO		
CURV2XYZPAT - Curvia 2" XYZ Pattern	DI ¹ - Direct/Indirect D - Direct ¹ Available for Pendant mounting only.	HLO - High-Efficiency Lambertian Optic	HLO - High-Efficiency Lambertian Optic NA - Not applicable	SW - Static white FS - Full spectrum ² Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.

CRI	DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	TOTAL PATTERN LENGTH
80CRI ³ - 80 CRI 95CRI ⁴ - 95 CRI 90CRI ³ - 90 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	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft NA - Not applicable	27K - 2700K 40K - 4000K 30K - 3000K 50K - 5000K 35K - 3500K	#FT#IN - Specify total pattern length (#) in 1' and/or 1" increments

³ Not available with full spectrum.
⁴ Not available with static white.

CORNER TYPE ^{5, 6}	INTERSECTION TYPE ^{10, 11, 12}

CURVED CORNER ^{7, 8}	STRAIGHT CORNER ⁹	CURVED INTERSECTION	STRAIGHT INTERSECTION
#LEVC(R##A##) - Curved leveled corner #INNC(R##A##) - Curved inner corner #OUTC(R##A##) - Curved outer corner  LEVC(R##A##) INNC(R##A##) OUTC(R##A##)	#LEVS(A##) - Straight leveled corner #INNS(A##) - Straight inner corner #OUTS(A##) - Straight outer corner  LEVS(A##) INNS(A##) OUTS(A##)	#TCI - Soft T curved intersection #XCI - Soft X curved intersection #YCI - Soft Y curved intersection #CCI - Soft C curved intersection  TCI XCI YCI CCI	#TSI - Sharp T straight intersection #XSI - Sharp X straight intersection #YSI - Sharp Y straight intersection  TSI XSI YSI
NA - None		CU ¹³ - Custom	NA - None
⁵ See page 5 for details. ⁶ If more than one option is specified, separate codes with a "+", e.g. 2LEVC(R18A90)+INNS(A45). ⁷ Minimum radius is 12". Consult factory for smaller radii. ⁸ Specify quantity (#), radius (R##) and angle (A##), e.g. 2INNC(R18A90). ⁹ Specify quantity (#) and angle (A##), e.g. 2INNS(A90).		¹⁰ See page 5 for details. ¹¹ If more than one option is specified, separate codes with a "+", e.g. 1TCI+2TSI.	¹² Specify quantity (#) for each required intersection type. ¹³ Provide a drawing for custom intersections.

VOLTAGE	DRIVER ¹⁵	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{23, 24}
120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁴ - 347V	D1 - 1% 0-10V ELV ¹⁶ - ELV 120V TRI ¹⁶ - TRIAC 120V DA ¹⁷ - DALI LDEI ¹⁷ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V	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, 22} - 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 options. Provide drawing or layout specifications. Minimum 4' section per circuit for integral drivers. ²⁰ Integral or remote subject to factory evaluation. GTD must be housed with the driver. ²¹ Not available with 347V. ²² Minimum 18" radius for integral GTD.	#EC## ²⁵ - Emergency-powered section #NL## ²⁵ - Night light section #DL## ²⁵ - Daylight section #GTD## ^{25, 26, 27, 28} - Generator transfer device section #EMB ^{26, 27, 29, 30} - 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 Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. ²⁷ Not available with 347V. ²⁸ Minimum 18" radius for integral GTD. ²⁹ Specify quantity (#). Each battery powers a 4' linear section. Minimum length of linear section is 5' for Direct and 8' for Direct/Indirect. ³⁰ All batteries will be on the same circuit and power the direct LEDs.

¹⁴ Only available with D1 driver. Subject to factory evaluation.
¹⁵ Integral or remote subject to factory evaluation. Code will be updated with prefix "R" if factory determines driver to be remote.
¹⁶ Available with 120V only.
¹⁷ On-site commissioning is required.

MOUNTING ³¹	FINISH	OPTIONS ³³

PENDANT ³²	RECESSED	SURFACE	WALL	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V CTB9 ³⁴ - T-bar caddy clip, 9/16" CTB15 ³⁴ - T-bar caddy clip, 15/16" CTG9 ³⁴ - Tegular caddy clip, 9/16"	CTG15 ³⁴ - Tegular caddy clip, 15/16" CST ³⁴ - Screw slot caddy clip FWC ³⁵ - Flexible whip cable (6' std) CP ³⁵ - Chicago Plenum NA - None
ACS - Aircraft cable, standard STS - Stem, standard ACC() - Aircraft cable, custom STC() - Stem, custom	DTR - Drywall trim DMF - Drywall mud flange	DRC - Drywall ceiling	DRM - Drywall mounting			

³¹ To specify multiple mounting, separate codes with a "+" (e.g. ACS+DRC).

³² Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.

³³ Separate codes with a "+" if more than one is specified.
³⁴ Available with pendant mounting aircraft cable option only.
³⁵ Available with recessed mounting only.

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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"

Custom

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

ACC() - Aircraft cable, custom

NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS
3NPC - Ø3" non-power canopy 5NPC - Ø5" 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 - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

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

STC() - Stem, custom

NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTIONS
5NPC - Ø5" non-power canopy	18IN - 18" 36IN - 36" #IN ² - Specify length in inches <small>² 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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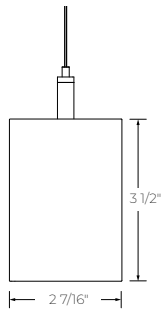
PATTERN

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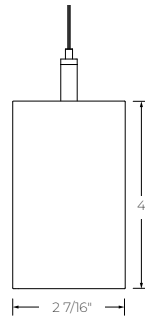


Dimensions

PENDANT

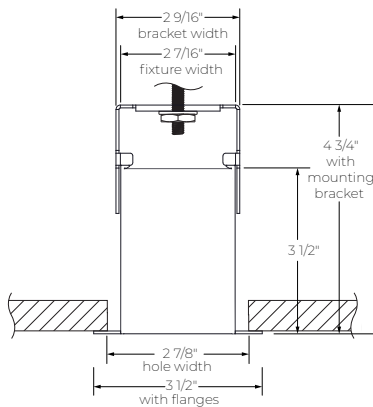


DIRECT

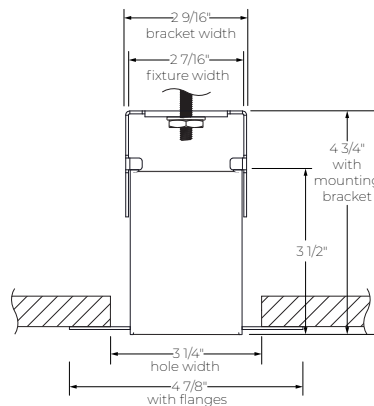


DIRECT/INDIRECT

RECESSED

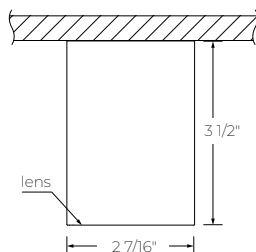


DTR - Drywall trim



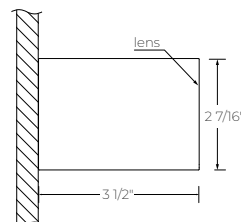
DMF - Drywall mud flange

SURFACE



DRC - Drywall ceiling

WALL



DRM - Drywall mounting

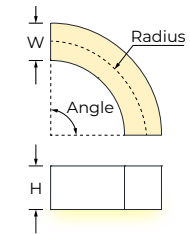
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PATTERN

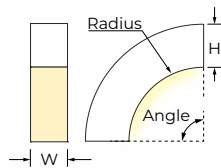
PENDANT - RECESSED - SURFACE - WALL



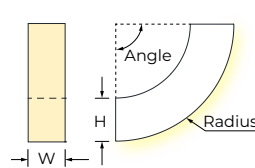
CURVED CORNERS



LEVC(R##A##)



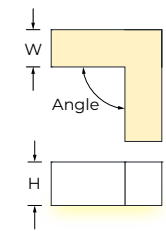
INNC(R##A##)



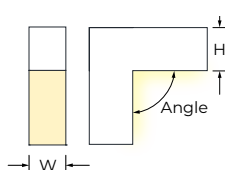
OUTC(R##A##)

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

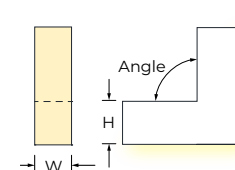
STRAIGHT CORNERS



LEVS(A##)

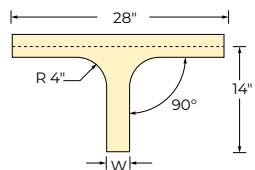


INNS(A##)

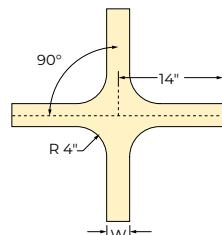


OUTS(A##)

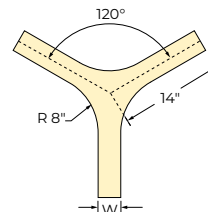
CURVED INTERSECTIONS



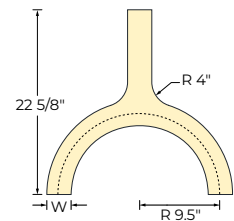
TCI - Soft T curved



XCI - Soft X curved

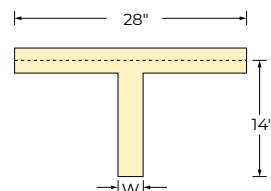


YCI - Soft Y curved

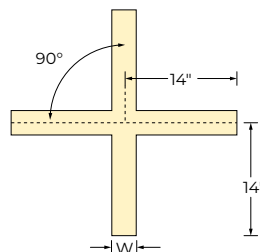


CCI - Soft C curved

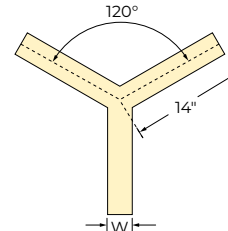
STRAIGHT INTERSECTIONS



TCI - Sharp T straight



XCI - Sharp X straight



YCI - Sharp Y straight

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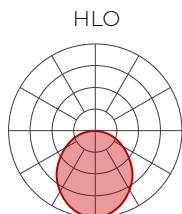
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Photometrics

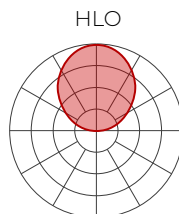
Values calculated based on 4' straight segments at 3500K and 80 CRI.

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 TABLE

Use this table to get results for different color temperatures and CRI 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

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

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Technical Specifications

OPTICS

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

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.

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 drywall 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 walls 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.

WEIGHT

Pendant Direct: 2 lb/ft - 0.9 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 - 0.9 kg/ft

Wall: 2 lb/ft - 0.9 kg/ft

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

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.