

CURVIA 2 ACOUSTIX

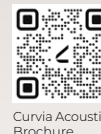
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Curvia Acoustix luminaires masterfully balance quality lighting with effective sound control through our acoustic felt, crafted from recycled plastic bottles. Available in over 30 colors, this felt not only reduces ambient noise but can also serve as a prominent design element in creating complete, unique acoustic lighting solutions.

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



Curvia Acoustix Brochure



Curvia Additions Brochure

Curvia Family (Refer to other spec sheets)

Curvia Mini	Curvia Slim	Curvia Slim Seal	Curvia Prism	Curvia	Curvia XYZ	Curvia Horizon	Curvia Perimeter	Curvia Seal Perimeter	Curvia Seal	Curvia Acoustix
1"	1", 2"	1", 2"	2"	2", 3", 4"	2", 3"	2", 3"	2", 3", 4", 5"	2", 3", 4"	2", 3", 4"	2"
Ring	Ring Shapes Pattern	Ring Shapes Pattern	Ring Shapes Pattern	Ring Shapes Pattern	Pattern	Ring Shapes	Pattern	Pattern	Ring Shapes Pattern	Ring Shapes Pattern

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931-4862
www.lumenwerx.com



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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	LUMINAIRE HEIGHT	SIZE ²	CORNER RADIUS ⁵ Specify NA for capsule	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture
CURV2ACOSQP - Curvia 2" Acoustix Square Pendant CURV2ACOREP - Curvia 2" Acoustix Rectangle Pendant CURV2ACOCAP - Curvia 2" Acoustix Capsule Pendant	D1 - Direct/Indirect D - Direct	8IN ¹ - 8" 12IN - 12" 16IN - 16" ¹ Not available with Direct/Indirect.	#FT#INX#FT#IN ^{3,4} - Nominal length X nominal width ² The real dimension of the fixture can differ up to 4" from the nominal size. ³ Specify nominal length (#) and width (#) in 1" and/or 1" increments. ⁴ Minimum size: Square 4' x 4', Rectangle 4' x 6', and Capsule 3' x 2'.	R12 - 12" radius R18 - 18" radius R24 - 24" radius R30 - 30" radius R36 - 36" radius RXX ⁶ - Custom radius in inches NA ⁷ - Not applicable ⁵ Radii are referenced to fixture centerline. ⁶ Minimum radius is 12". Consult factory for smaller radii. ⁷ For capsule, radius is defined by the size.	HLO - High-Efficiency Lambertian Optic AOO ⁸ - Asymmetric Opal Optic ⁸ Direction of light must be indicated on RCP/lighting plans.	HLO - High-Efficiency Lambertian Optic NA - Not applicable

LIGHT SOURCE ⁹	CRI	DIRECT LUMEN PACKAGE ¹²	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	VOLTAGE
SW - Static white FS - Full spectrum static white ⁹ Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.	80CRI ¹⁰ - 80+ CRI 90CRI ¹⁰ - 90+ CRI 95CRI ¹¹ - 95+ CRI ¹⁰ Not available with full spectrum. ¹¹ Not available with static white.	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft ¹² To calculate the total lumens, multiply the lumen package (lm/ft) by the length of the shape (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 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	120V - 120V 277V - 277V UNV - 120V-277V 347V ¹³ - 347V ¹³ Only available with D1 driver. Subject to factory evaluation.

DRIVER ¹⁴	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{22, 23}	MOUNTING ³⁰
D1 - 1% 0-10V ELV ¹⁵ - ELV 120V TRI ¹⁵ - TRIAC 120V DA ¹⁶ - DALI LDEI ¹⁶ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ¹⁴ Integral or remote subject to factory evaluation. Code will be updated with prefix "R" if factory determines driver to be remote. ¹⁵ Only available with 120V. ¹⁶ On-site commissioning is required.	1C - 1 circuit 2C ¹⁷ - 2 circuits #MC ¹⁸ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{19, 20, 21} - Generator transfer device fixture ¹⁷ Only available for Direct/Indirect. Separate direct and indirect circuits. ¹⁸ 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. ¹⁹ Integral or remote subject to factory evaluation. GTD must be housed with the driver. ²⁰ Not available with 347V. ²¹ Minimum 18" radius for integral GTD.	#EC## ²⁴ - Emergency-powered section #NL## ²⁴ - Night light section #DL## ²⁴ - Daylight section #GTD## ^{24, 25, 26, 27} - Generator transfer device section #EMB ^{25, 26, 28, 29} - 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 Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. ²⁶ Not available with 347V. ²⁷ Minimum 18" radius for integral GTD. ²⁸ Specify quantity (#). Each battery powers a 4' linear section. Minimum length of linear section is 5' for Direct and 8' for Direct/Indirect. ²⁹ All batteries will be on the same circuit and power the direct LEDs.	ACS - Aircraft cable, standard STS - Stem, standard ACC() - Aircraft cable, custom STC() - Stem, custom 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.

FINISH	FELT COLOR										OPTIONS ³⁴	
W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	STANDARD COLORS					PREMIUM COLORS ^{31, 32}					FU120 - Fuse 120V FU277 - Fuse 277V CTB9 ³⁵ - T-bar caddy clip, 9/16" CTB15 ³⁵ - T-bar caddy clip, 15/16" CTG9 ³⁵ - Tegular caddy clip, 9/16" CTG15 ³⁵ - Tegular caddy clip, 15/16" CST ³⁵ - Screw slot caddy clip NA - None	
		FWN		LVN			CDN		IVN		BHN	³⁴ Separate codes with a "+" if more than one is specified. ³⁵ Only available with aircraft cable.
		FON		LEN			LCN ³³		SLN		CFN ³³	
		ION		CYN			SYN		CNN		GRN ³³	
		TBN		PMN			BLN		GHN		MON	
		MDN		FGN			NVN		CLN ³³		ESN ³³	
	³¹ Please consult factory for more color options. ³² Lead time may vary. ³³ Minimum 15" radius.											

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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	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

¹ Maximum length is 288". For longer lengths, please consult factory.

² Not available with the Ø 3" non-power canopy size.

Custom

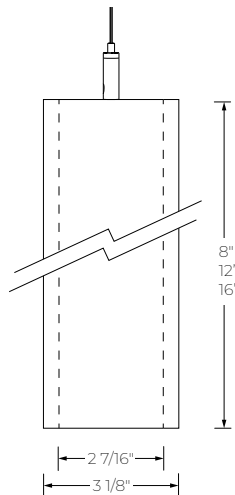
Example: STC(5NPC-36IN-W-STW-SLS)

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 ¹ - Specify length in inches	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

¹ Minimum length is 6". Maximum length is 72". Stem is not field adjustable.

Dimensions



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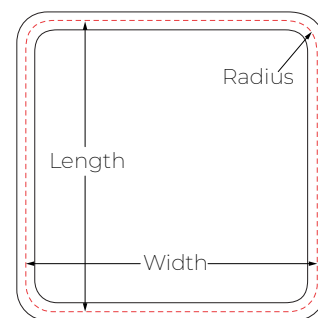
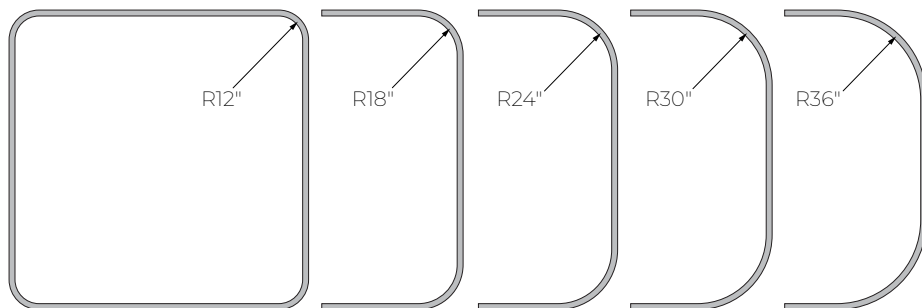
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Shapes

SQUARE SHAPE

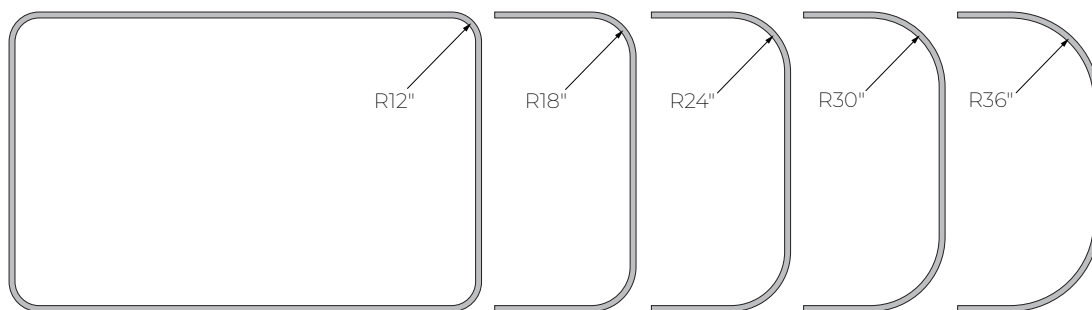
RADIUS: 12", 18", 24", 30", 36".



Note: The length, width and radius are measured from the center of the fixture.

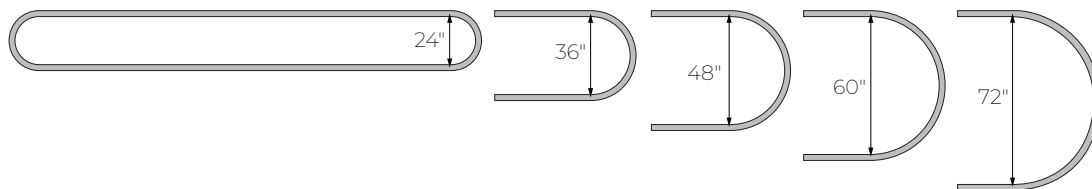
RECTANGLE SHAPE

RADIUS: 12", 18", 24", 30", 36".



CAPSULE SHAPE

WIDTH: 24", 36", 48", 60", 72".



Configuration diagrams are not to scale. For visualization purposes only.

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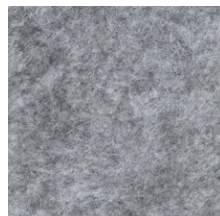
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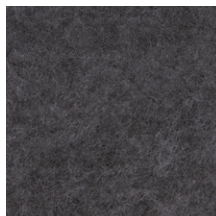
Standard Color Options



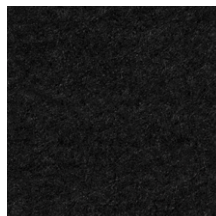
FWN - FROST WHITE



FON - FOG



ION - IRON



TBN - TRUE BLACK



MDN - MIDNIGHT BLUE



LVN - LAVENDER



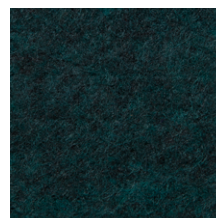
LEN - LATTE



CYN - CHERRY



PMN - PLUM



FGN - FOREST GREEN

Premium Color Options*



PKN - PAPRIKA



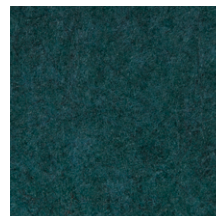
OGN - ORANGE



LNN - LEMON



LMN - LIME



EGN - EVERGREEN



CDN - CLOUDY



LCN - LICHEN



SYN - SKY



BLN - BLUEBERRY



NVN - NAVY



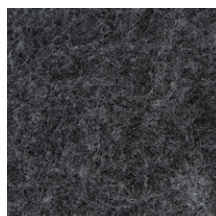
IVN - IVORY



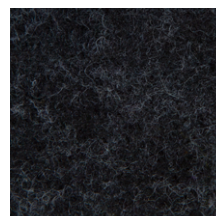
SLN - STEEL



CNN - CARBON



GHN - GRAPHITE



CLN - CHARCOAL



BHN - BLUSH



CFN - CAFÉ



GRN - GREIGE



MON - MOCHA



ESN - ESPRESSO

*Please consult factory for more color options.
*Lead time may vary.

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Acoustic Calculator

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9 feet.

Value calculator table

		Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
FIXTURE LENGTH	FIXTURE HEIGHT	GOOD 😊	BETTER 😊😊	BEST 😊😊😊	GOOD 😊	BETTER 😊😊	BEST 😊😊😊
% in reduction in reverberation time		25%	40%	50%	25%	40%	50%
1'	8"	4.75	2.25	1.5	7.25	3.75	2.5
	12"	7.25	3.5	2	11.25	5.5	3.5
	16"	9.5	4.75	3	14.5	7.25	4.75

Use the **Lumenwerx Acoustix Value Formula** to determine the number of luminaires needed in the room.

$$\frac{\text{Room square footage (sq ft)}}{\text{Fixture length (ft)} \times \text{Value}} = \text{Number of luminaires.}$$

Example: How many 4' length x 8" height luminaires are needed for a 10' x 10' room size, for a BEST (50%) acoustic:
 $(10' \times 10') \div (4' \times 1.5) = 17$ luminaires

NOTES:

- Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.

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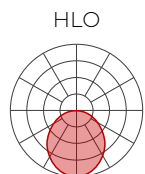
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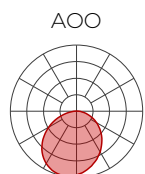
Photometrics

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

DIRECT OPTICS

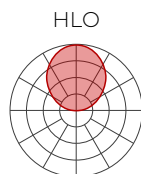


LM/FT	W/FT	LM/W
350	3.1	113
500	4.6	109
750	7.2	104



LM/FT	W/FT	LM/W
350	3.6	96
500	5.4	93
750	8.5	88

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 for all photometric tables.

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

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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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.

Asymmetric Opal Optic (AOO)

The Asymmetric Opal Optic (AOO) provides targeted illumination while diffusing light evenly, minimizing glare and spill. Its design creates a soft, inviting ambiance, making it ideal for architectural and accent lighting in modern spaces.

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

FINISH

Interior: 95%, reflective matte powder coated white paint.

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

ACOUSTIC FINISH

Material is 100% polyester containing up to 50% of recycled plastic bottles (PET) with an ASTM E-84 Class A / CAN ULC S102 fire rating and is moisture resistant.

CARE

Remove dust and debris with a clean, dry, soft, lint-free cloth, or vacuum.

WEIGHT

Direct: 3 lb/ft - 1.36 kg/ft

Direct/Indirect: 5 lb/ft - 2.26 kg/ft

CONSTRUCTION

Housing: Extruded aluminum and aluminum sheet

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

ENVIRONMENT

Ambient temperature at fixture location shall not exceed 30°C/86°F. For indoor use only.

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.