

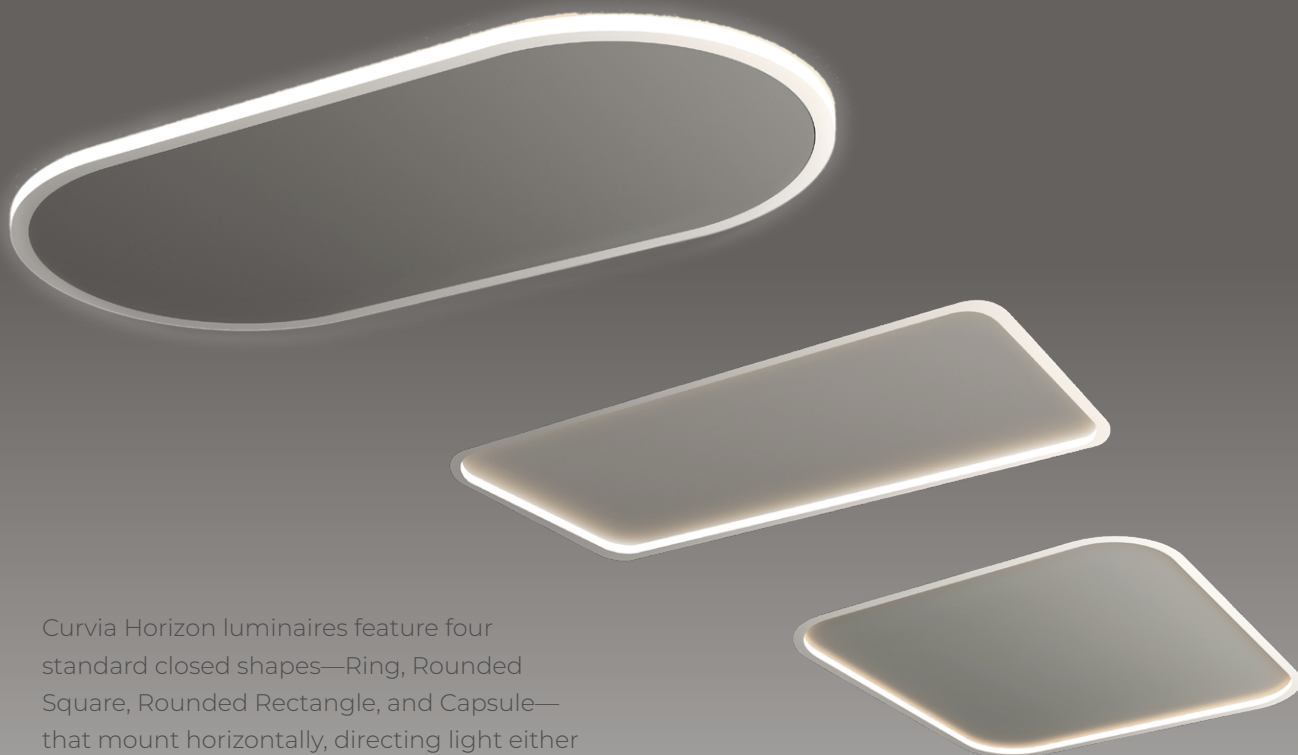
CURVIA 2 HORIZON

SHAPES

RECESSED - SURFACE



Declare.



Curvia Horizon luminaires feature four standard closed shapes—Ring, Rounded Square, Rounded Rectangle, and Capsule—that mount horizontally, directing light either inward toward their centers or outward away from their housing. They provide versatile illumination, enhancing depth and creating engaging effects in any space.



Inward



Outward

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



Curvia Additions Brochure

Curvia Family (Refer to other spec sheets)

Curvia Mini
1"



Ring

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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CURVIA2-HORIZON-SHAPES-SPEC-REV0 November 15, 2024

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SHAPES

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	SIZE ¹	CORNER RADIUS Specify NA for capsule	OPTIC	LIGHT SOURCE ⁶
				HLO	
SQUARE CURV2HOSQR - Curvia 2" Horizon Square Recessed CURV2HOSQS - Curvia 2" Horizon Square Surface RECTANGLE CURV2HORER - Curvia 2" Horizon Rectangle Recessed CURV2HORES - Curvia 2" Horizon Rectangle Surface CAPSULE CURV2HOCAR - Curvia 2" Horizon Capsule Recessed CURV2HOCAS - Curvia 2" Horizon Capsule Surface	IND - Inward OTD - Outward	#FT#INX#FT#IN ^{2,3} - Overall length X overall width ¹ The real dimension of the fixture can differ up to 4" from the nominal size. ² Specify nominal length (#) and width (#) in 1" and/or 1" increments. ³ Minimum size: Square 4' x 4'; Rectangle 4' x 6'; and Capsule 3' x 4'.	R12 - 12" radius R18 - 18" radius R24 - 24" radius R30 - 30" radius R36 - 36" radius Rxx ⁴ - Custom radius in inches NA ⁵ - Not applicable ⁴ Minimum radius 8". Consult factory for smaller radii. ⁵ For capsule, radius is defined by the size.	HLO - High-Efficiency Lambertian Optic	SW - Static white FS - Full spectrum ⁶ Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.

CRI	LUMEN PACKAGE ⁹	COLOR TEMP.	VOLTAGE	DRIVER ¹¹
80CRI ⁷ - 80 CRI 90CRI ⁷ - 90 CRI 95CRI ⁸ - 95 CRI ⁷ Not available with full spectrum. ⁸ Not available with static white.	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 ⁹ To calculate the total lumens, multiply the lumen package (lm/ft) by the length of the shape (ft).	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁰ - 347V ¹⁰ Available with D1 driver only. Subject to factory evaluation.	D1 - 1% 0-10V ELV ¹² - ELV 120V TRI ¹² - TRIAC 120V DA ¹³ - DALI LDE1 ¹³ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELDO - eldoLED 0.1% SOLOdrive 0-10V ¹¹ Integral or remote subject to factory evaluation. Code will be updated with prefix "R" if factory determines driver to be remote. ¹² Available with 120V only. ¹³ On-site commissioning is required.

ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{18,19}	MOUNTING ²⁶		FINISH	OPTIONS ²⁷
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1C - 1 circuit #MC ¹⁴ - Multi circuit EC - Emergency-powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{15,16,17} - Generator transfer device fixture ¹⁴ 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. ¹⁵ Integral or remote subject to factory evaluation. GTD must be housed with the driver. ¹⁶ Not available with 347V. ¹⁷ Minimum 18" radius for integral GTD.	#EC## ²⁰ - Emergency-powered section #NL## ²⁰ - Night light section #DL## ²⁰ - Daylight section #GTD## ^{20,21,22,23} - Generator transfer device section #EMB ^{21,22,24,25} - 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 Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. ²² Not available with 347V. ²³ Minimum 18" radius for integral GTD. ²⁴ Specify quantity (#). Each battery powers a 4' linear section. Minimum length of linear section is 5'. ²⁵ All batteries will be on the same circuit.	DTR - Drywall trim DMF - Drywall mud flange ²⁶ The mounting option selected must reflect the luminaire ID.	DRC - Drywall ceiling	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V FWC ²⁸ - Flexible whip cable (6' std) CP ²⁸ - Chicago Plenum NA - None ²⁷ Separate codes with a "+" if more than one is specified. ²⁸ Available with recessed mounting only.

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SHAPES

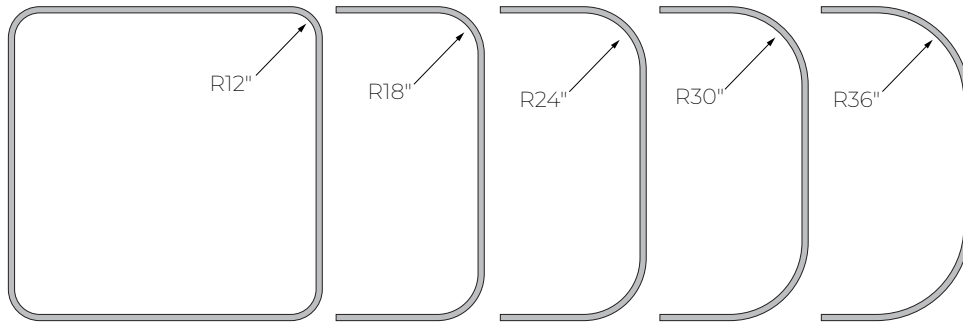
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SHAPES

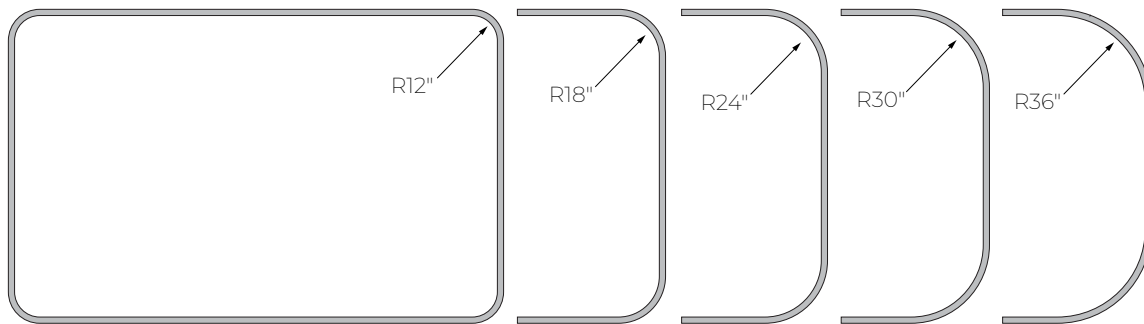
SQUARE SHAPE

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



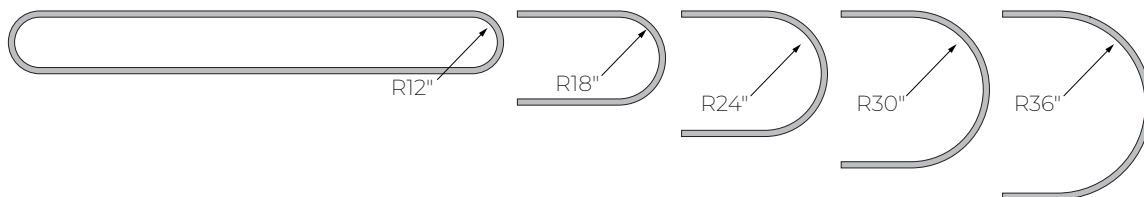
RECTANGLE SHAPE

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



CAPSULE SHAPE

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



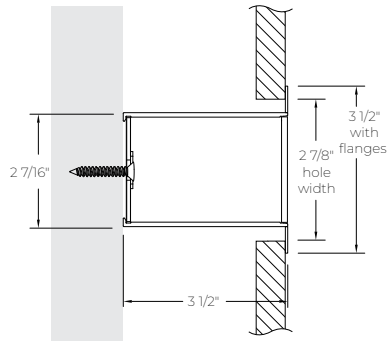
Configuration diagrams are not to scale. For visualization purposes only.

CURVIA 2 HORIZON SHAPES RECESSED - SURFACE

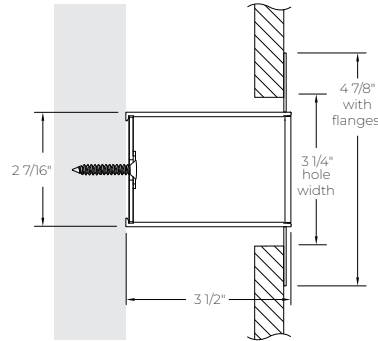


Dimensions

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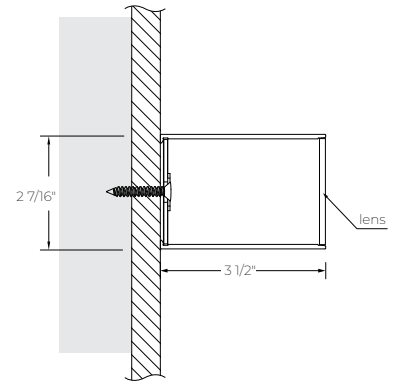


DTR - Drywall trim



DMF - Drywall mud flange

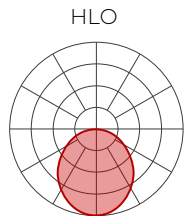
SURFACE



DRC - Drywall ceiling

Photometrics

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



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

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and CRI for all 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

Example



Inward



Outward

CURVIA 2 HORIZON SHAPES

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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

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

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.

FINISH

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

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

WEIGHT

Recessed: 2.5 lb/ft - 1.13 kg/ft

Surface: 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.