CURVIA 2 HORIZON

RING

RECESSED - SURFACE

Lumenwerx

Declare.

5 YEAR WARRANTY 5 5 YEAR WARRANTY

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	Curvia Prism	Curvia	Curvia XYZ	**Curvia Horizon**	Curvia Perimeter	Curvia Seal Perimeter	Curvia Seal	Curvia Acoustix
1"	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	Pattern	**Ring** Shapes	Pattern	Pattern	Ring Shapes Pattern	Ring Shapes Pattern

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

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	SIZE [1]	OPTIC	LIGHT SOURCE [3]
			HLO	
CURV2HORIR - Curvia 2" Horizon Ring Recessed **CURV2HORIS** - Curvia 2" Horizon Ring Surface	**IND** - Inward **OTD** - Outward	**2FT** - Ø 2' **3FT** - Ø 3' **4FT** - Ø 4' **5FT** - Ø 5' **6FT** - Ø 6' **8FT** - Ø 8' **10FT** - Ø 10' **12FT** - Ø 12' **#FT** [2] - Custom, specify diameter (#) [1] Ø 8' and over will be shipped in separate pieces. [2] Minimum Ø 2'.	**HLO** - High-Efficiency Lambertian Optic	**SW** - Static white **FS** - Full spectrum [3] Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.

CRI	LUMEN PACKAGE [6]	COLOR TEMPERATURE	VOLTAGE	DRIVER [8]
80CRI [4] - 80 CRI **90CRI** [4] - 90 CRI **95CRI** [5] - 95 CRI [4] Not available with full spectrum. [5] 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 [6] To calculate the total lumens, multiply the lumen package (lm/ft) by the circumference of the ring (diameter x π).	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [7] - 347V [7] Available with D1 driver only. Minimum Ø 7' fixture for integral drivers.	**D1** - 1% 0-10V **ELV** [9] - ELV 120V **TRI** [9] - TRIAC 120V **DA** [10] - DALI **LDE1** [10] - Lutron Hi-Lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V [8] Integral or remote subject to factory evaluation. Code will be updated with prefix "R" if factory determines driver to be remote. [9] Available with 120V only. [10] On-site commissioning is required.

ELECTRICAL	MOUNTING [14]		FINISH	OPTIONS [15]
	RECESSED	SURFACE		
1C - 1 circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [11, 12] - Generator transfer device fixture **+EMB** [11, 12, 13] - Emergency battery [11] Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. [12] Not available with 347V. [13] Not available with EC or GTD. To specify, add +EMB to the selected electrical option, e.g. 1C+EMB.	**DTR** - Drywall trim **DMF** - Drywall mud flange	**DRC** - Drywall ceiling [14] The mounting option selected must reflect the luminaire ID.	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** [16] - Flexible whip cable (6' std) **CP** [16] - Chicago Plenum **NA** - None [15] Separate codes with a "+" if more than one is specified. [16] Available with recessed mounting only.

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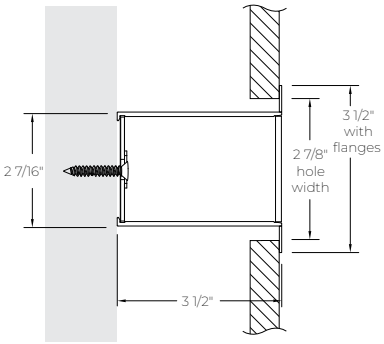
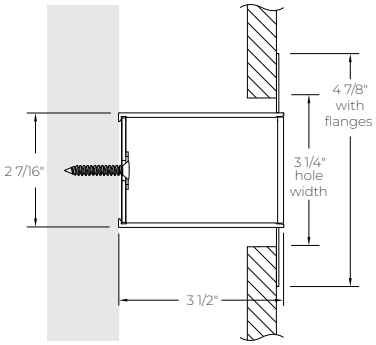
Dimensions

RECESSED

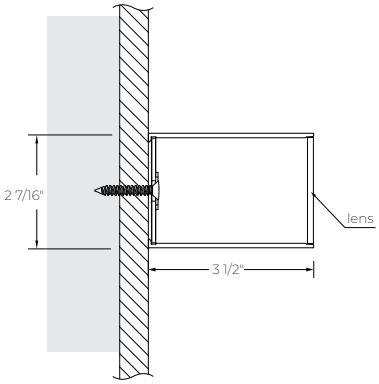


DTR - Drywall trim



DMF - Drywall mud flange

SURFACE

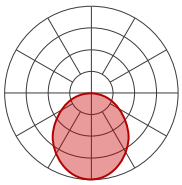


DRC - Drywall ceiling

Photometrics

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

HLO



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

Recessed bulkhead - Inward & Outward

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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.

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

Recessed: 2.5 lb/ft - 1.13 kg/ft
Surface: 2 lb/ft - 0.9 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.

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