CURVIA 3
RING
PENDANT - RECESSED - SURFACE

Lumenwerx

Declare.

5 YEAR WARRANTY

Our extensive Curvia family illuminates with elegant curvilinear shapes and patterns, enhancing spaces with a soft touch and a graceful sense of movement. Available in various mounting options and sizes, Curvia luminaires feature a unique, sophisticated aesthetic that complements their technical prowess in delivering precise, powerful, and comfortable lighting solutions.

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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CURVIA3-RING-SPEC-REV3   November 15, 2024

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	SIZE [2]		DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture
CURV3RIP - Curvia 3" Ring Pendant **CURV3RIR** - Curvia 3" Ring Recessed **CURV3RIS** - Curvia 3" Ring Surface	**DI** [1] - Direct/Indirect **D** - Direct [1] Available for pendant mounting only.	**2FT** - Ø 2' **3FT** - Ø 3' **4FT** - Ø 4' **5FT** - Ø 5' **6FT** - Ø 6' [2] Ø 8' and over will be shipped in separate pieces. [3] Minimum Ø 2'.	**8FT** - Ø 8' **10FT** - Ø 10' **12FT** - Ø 12' **#FT** [3] - Custom, specify diameter (#)	**HLO** - High-Efficiency Lambertian Optic **AOO** [4] - Asymmetric Opal Optic [4] Direction of light must be indicated on RCP/lighting plans.	**HLO** - High-Efficiency Lambertian Optic **NA** - Not applicable

LIGHT SOURCE [5]	CRI	DIRECT LUMEN PACKAGE [8]	INDIRECT LUMEN PACKAGE [10] Specify NA for Direct fixture	COLOR TEMPERATURE
SW - Static white **FS** - Full spectrum [5] Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.	**80CRI** [6] - 80 CRI **90CRI** [6] - 90 CRI **95CRI** [7] - 95 CRI [6] Not available with full spectrum. [7] 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** [9] - High output 1000 lm/ft [8] To calculate the total lumens, multiply the lumen package (lm/ft) by the circumference of the ring (diameter x π). [9] Not available with full spectrum.	**350LMF** - Eco low output 350 lm/ft **500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** [11] - High output 1000 lm/ft **NA** - Not applicable [10] To calculate the total lumens, multiply the lumen package (lm/ft) by the circumference of the ring (diameter x π). [11] Not available with full spectrum.	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K

VOLTAGE	DRIVER [13]	ELECTRICAL
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [12] - 347V [12] Available with D1 driver only. Minimum Ø 5' fixture for integral drivers.	**D1** - 1% 0-10V **ELV** [14, 15] - ELV 120V **TRI** [14, 15] - TRIAC 120V **DA** [15, 16] - DALI **LDE1** [15, 16] - Lutron Hi-Lume 1% Eco **ELD1** [15] - eldoLED 1% ECOdrive 0-10V **ELD0** [15] - 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] Available with 120V only. [15] Minimum Ø 5' fixture for integral drivers. [16] On-site commissioning is required.	**1C** - 1 circuit **2C** [17] - 2 circuits **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [18, 19] - Generator transfer device fixture **+EMB** [18, 19, 20, 21] - Emergency battery [17] Available for Direct/Indirect only. Separate direct and indirect circuits. [18] Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. [19] Not available with 347V. [20] Minimum Ø 6' fixture for integral battery. The battery powers the direct LEDs. [21] Not available with EC or GTD. To specify, add +EMB to the selected electrical option, e.g. 1C+EMB.

MOUNTING [22]				FINISH	OPTIONS [28]

PENDANT

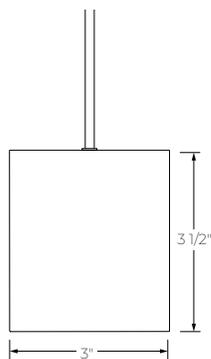| POWER	CANOPY FINISH	MOUNTING POINTS	MOUNTING LENGTH [27]		RECESSED	SURFACE	FINISH	OPTIONS [28]
BAC - Black power cord + aircraft cable **WAC** - White power cord + aircraft cable **STM** [23] - Stem	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF** - Custom finish, specify RAL#	**SC** [24, 25] - Single canopy **MC** [26] - Multiple canopies	**18IN** - 18" **24IN** - 24" **36IN** - 36" **48IN** - 48" **60IN** - 60"	**72IN** - 72" **96IN** - 96" **120IN** - 120" **##IN** - Specify nominal length in inches	**DTR** - Drywall trim **DMF** - Drywall mud flange	**DRC** - Drywall ceiling	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**FU120** - Fuse 120V **FU277** - Fuse 277V **CTB9** [29] - T-bar caddy clip, 9/16" **CTB15** [29] - T-bar caddy clip, 15/16" **CTG9** [29] - Tegular caddy clip, 9/16" **CTG15** [29] - Tegular caddy clip, 15/16" **CST** [29] - Screw slot caddy clip **FWC** [30] - Flexible whip cable (6' std) **CP** [30] - Chicago Plenum **NA** - None

[22] The mounting options selected must reflect the luminaire ID.
[23] Stem finish is the same color as fixture.
[24] Available up to Ø 4' only.
[25] Not available with stem.
[26] 4 Canopies or more provided.
[27] For single canopy option the minimum required mounting heights are (distance from ceiling to top of fixture in inches): Ø 2' - min 15" | Ø 3' - min. 22" | Ø 4' - min. 29"

[28] Separate codes with a "+" if more than one is specified.
[29] Available with pendant mounting aircraft cable option only.
[30] Available with recessed mounting only.

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Dimensions

PENDANT

3 1/2"

3"

DIRECT

4"

3"

DIRECT/INDIRECT

RECESSED

3 3/16"
bracket width

3"
fixture width

4 3/4"
with
mounting
bracket

3 1/2"

4"
hole width

5 5/8"
with flanges

DMF - Drywall mud flange

3 3/16"
bracket width

3"
fixture width

4 3/4"
with
mounting
bracket

3 1/2"

3 9/16"
hole width

4 3/16"
with flanges

MTR - Trim

SURFACE

3 1/2"

3"
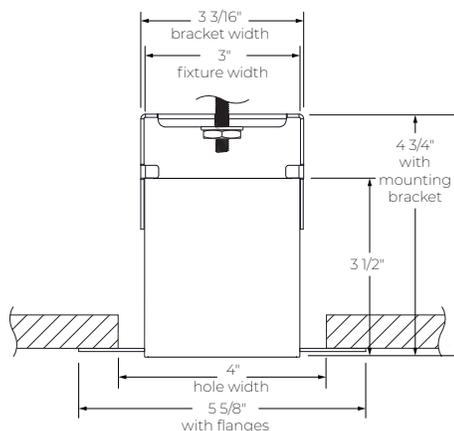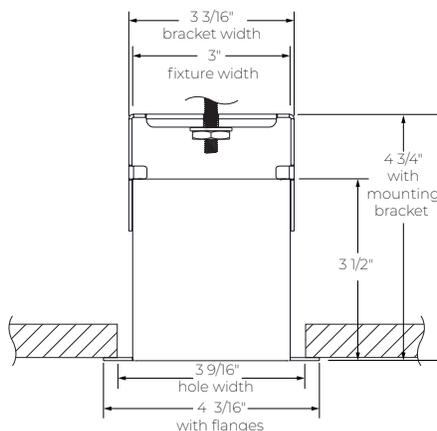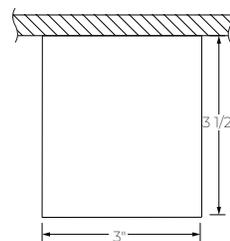
DRC - Drywall ceiling

Mounting

PENDANT

J-BOX
(by others)

Ø 5" flat
canopy

*
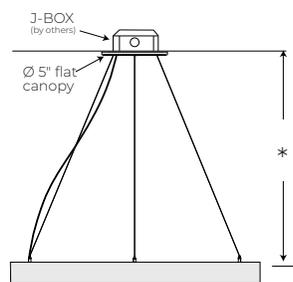
POWER CORD + AIRCRAFT CABLE
SC - SINGLE CANOPY

J-BOX
(by others)

Ø 3" flat
canopy

Ø 5" flat
canopy
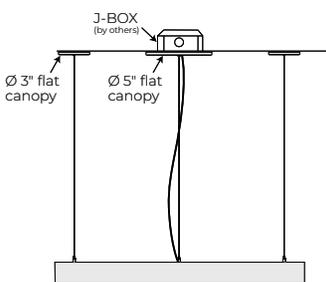
POWER CORD + AIRCRAFT CABLE
MC - MULTIPLE CANOPIES

J-BOX
(by others)

Ø 5" flat
canopy
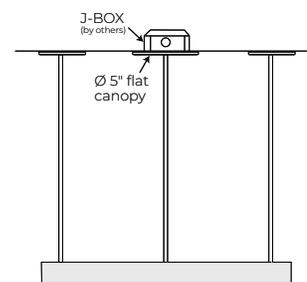
STEM
MC - MULTIPLE CANOPIES

* For single canopy option, the minimum required mounting heights: Ø 2' : min 15" | Ø 3' : min 22" | Ø 4' : min 29".

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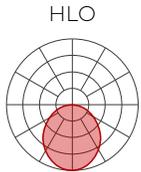Intertek

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Photometrics

Values calculated based on Curvia 3 Ring Ø 2' at 3500K and 80 CRI for all optics.
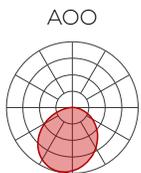
DIRECT OPTICS

HLO

LM/FT	W/FT	LM/W
350	2.9	122
500	4.3	118
750	6.7	112
1000	9.4	106

AOO

LM/FT	W/FT	LM/W
350	3.4	104
500	5.0	100
750	7.9	95
1000	11.1	90

INDIRECT OPTIC

HLO

LM/FT	W/FT	LM/W
350	2.4	149
500	3.5	145
750	5.4	139
1000	7.4	134

MULTIPLIER TABLES

Use these tables 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.

$$\frac{\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}}{\text{DIRECT W/FT} + \text{INDIRECT W/FT}} = \text{LPW}$$

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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 SupremeGripTM 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
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.

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
Lens: Acrylic
Hanger: Chromed griplock securely attached with spring steel hardware in end caps and/or joiners
Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable
Stem: Ø 1/2" threaded steel tube

WEIGHT

Pendant Direct:	2.25 lb/ft - 1.13 kg/ft
Pendant Direct/Indirect:	2.8 lb/ft - 1.27 kg/ft
Recessed:	2.8 lb/ft - 1.27 kg/ft
Surface:	2.25 lb/ft - 1.13 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.