CURVIA 4 PERIMETER

PATTERN

RECESSED

Lumenwerx

Declare.

5 YEAR WARRANTY 5 YEAR WARRANTY

Curvia Perimeter fixtures highlight the contours of curved perimeters in three distinct mounting options: level for dramatic lighting, shallow for a softer effect, and deep-recessed for a more subtle look.

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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Project: _____

Type: _____

Order Guide

A drawing of your pattern is required - anything from a line drawing to an architectural drawing.

LUMINAIRE ID	DISTRIBUTION	OPTIC	LIGHT SOURCE [3]	CRI	LUMEN PACKAGE
	D				
CURV4PERLPAT - Curvia 4" Perimeter Level Pattern **CURV4PERSPAT** - Curvia 4" Perimeter Shallow Pattern **CURV4PERDPAT** - Curvia 4" Perimeter Deep Pattern	**D** - Direct	**HLO** - High-Efficiency Lambertian Optic **AOO** [1,2] - Asymmetric Opal Optic [1] Direction of light must be indicated on RCP/lighting plans. [2] Not available with Deep fixtures.	**SW** - Static white **FS** - Full spectrum [3] Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.	**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** [6] - High output 1000 lm/ft **1200LMF** [6] - High output 1200 lm/ft [6] Not available with full spectrum.

COLOR TEMP.	TOTAL PATTERN LENGTH	CORNER TYPE [7,8]	VOLTAGE	DRIVER [13]
27K - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K.	**#FT#IN** - Specify total pattern length (#) in 1' and/or 1" increments	**CURVED CORNER** [9,10] **#LEVC(R##A##)** - Curved leveled corner  LEVC(R##A##) **STRAIGHT CORNER** [11] **#LEVS(A##)** - Straight leveled corner  LEVS(A##) **NA** - None [7] See page 3 for details. [8] If more than one option is specified, separate codes with a "+", e.g. 2LEVC(R18A90)+1LEVS(A45). [9] Minimum radius is 8". Consult factory for smaller radii. [10] Specify quantity (#), radius (R##) and angle (A##), e.g. 2LEVC(R18A90). [11] Specify quantity (#) and angle (A##), e.g. 2LEVS(A90).	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [12] - 347V [12] Available with D1 driver only. Subject to factory evaluation.	**D1** - 1% 0-10V **ELV** [14] - ELV 120V **TRI** [14] - TRIAC 120V **DA** [15] - DALI **LDE1** [15] - Lutron Hi-Lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - 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] On-site commissioning is required.

ELECTRICAL	ELECTRICAL SECTIONS (optional) [20,21]	MOUNTING	FINISH	OPTIONS [28]
1C - 1 circuit **#MC** [16] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [17,18,19] - Generator transfer device fixture [16] 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. [17] Integral or remote subject to factory evaluation. GTD must be housed with the driver. [18] Not available with 347V. [19] Minimum 12" radius for integral GTD.	**#EC##** [22] - Emergency-powered section **#NL##** [22] - Night light section **#DL##** [22] - Daylight section **#GTD##** [22,23,24,25] - Generator transfer device section **#EMB** [23,24,26,27] - Emergency battery **NA** - None [20] Specify with multi circuit (#MC) electrical option only. [21] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [22] Specify quantity (#), and section length in inches (##). [23] Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. [24] Not available with 347V. [25] Minimum 12" radius for integral GTD. [26] Specify quantity (#). Each battery powers a 4' linear section. Minimum length of linear section is 5'. [27] All batteries will be on the same circuit.	**DTR** - Drywall trim **DMF** - Drywall mud flange	**W** - Matte white **CF#** - Custom finish, specify RAL#	**NEF** [29] - No end flanges **FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [28] Separate codes with a "+" if more than one is specified. [29] For wall-to-wall installations.

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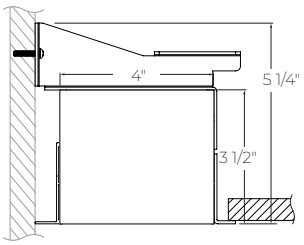
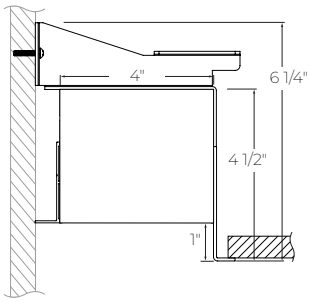
Dimensions

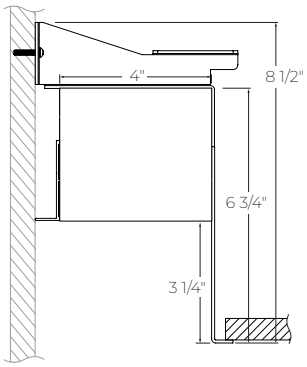
Level



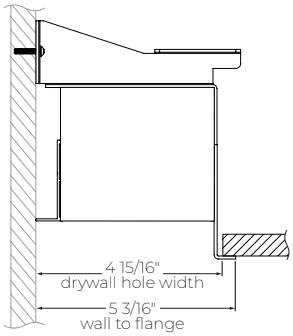
Shallow



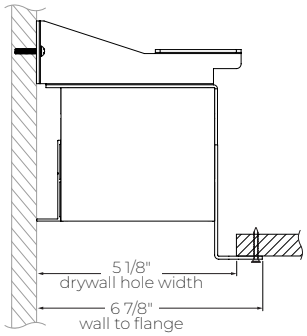
Deep



DTR - Trim

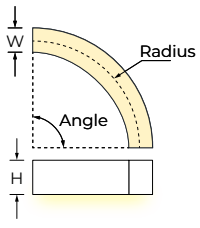


DMF - Mud flange



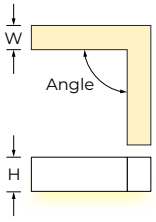
Corner Type

Curved Corners



LEVC(R##A##)

Straight Corners



LEVS(A##)

	LEVEL	SHALLOW	DEEP
Height (H)	3 1/2"	4 1/2"	6 3/4"
Width (W)	4"		

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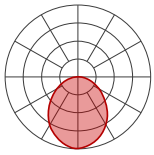
Photometrics

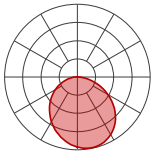
Values calculated based on a 4' fixture at 3500K and 80 CRI for all optics.

Level



HLO - High-Efficiency Lambertian Optic

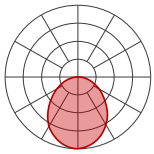
LM/FT	W/FT	LM/W
350	2.7	132
500	3.9	129
750	6	126
1000	8.2	122
1200	10	119



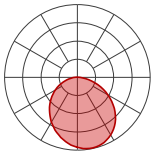
AOO – Asymmetric Opal Optic

LM/FT	W/FT	LM/W
350	3	112
500	4.5	110
750	7	107
1000	9.5	104
1200	12	101

Shallow

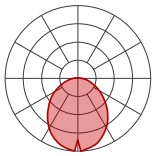


LM/FT	W/FT	LM/W
350	3	125
500	4	123
750	6	120
1000	9	116
1200	11	113



LM/FT	W/FT	LM/W
350	3	101
500	5	99
750	8	96
1000	11	93
1200	13	91

Deep



LM/FT	W/FT	LM/W
350	3	119
500	4	116
750	7	113
1000	9	110
1200	11	107

MULTIPLIER TABLE

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

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

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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
The full spectrum LED option offers improved color particularly in the cyan region which helps increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms. 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 fixtures can be mounted in drywall ceilings with trim or mud flange options.

FINISH

Interior: 95%, reflective matte powder coated white paint.
Exterior: Matte white powder coating. Custom finishes are also available.

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Aluminum
Lens: Acrylic
Recessed flanges: Extruded aluminum, up to 90% recycled content
End plate: Die-formed cold rolled sheet steel

WEIGHT

Level: 3.2 lb/ft - 1.45 kg/ft
Shallow: 3.2 lb/ft - 1.45 kg/ft
Deep: 3.4 lb/ft - 1.5 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.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation
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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