LUMEC by signify

Urban

Ancestra

AT50 Pendant

Lumec **Ancestra LED** pendant luminaires present a new twist on a classic design. By combining the best aspects of past and present forms with the best that modern technology has to offer, the **Ancestra** luminaires epitomizes Lumec's design philosophy beautifully: to combine the best technology with elegant design.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: AT50-80W48LED4K-G2-ACDR-LE3A-120-DMG-SMB-RCD-PH8-GN8TX

Series	LED module	Gen.	Globe	Optical system	Voltage	Driver options	Adaptor	Luminaire options	Poles/Brackets	Finish
AT50	**3000K** **35W32LED3K**[1] **55W32LED3K**[1] **55W48LED3K** **70W64LED3K** **72W32LED3K** **80W48LED3K** **4000K** **35W32LED4K**[1] **55W32LED4K**[1] **55W48LED4K** **70W64LED4K** **72W32LED4K** **80W48LED4K**	**G2** Gen 2	**ACDR** Acrylic Globe	**LE2A**[2] Type II (ASYM) w/globe **LE3A**[2] Type III (ASYM) w/globe **LE4A**[2] Type IV (ASYM) w/globe **LE2F** Type II (ASYM) w/flat glass lens **LE2S** Type II (ASYM) w/sag glass lens **LE3F** Type III (ASYM) w/flat glass lens **LE3S** Type III (ASYM) w/sag glass lens **LE4F** Type IV (ASYM) w/flat glass lens **LE4S** Type IV (ASYM) w/sag glass lens **LE5F**[3] Type V (SYMM) w/flat glass lens **LE5S**[3] Type V (SYMM) w/sag glass lens	**120** **208** **240** **277** **347** **480**	**AST**[1] Pre-set driver for progressive start-up **CDMGE25**[1] 8 hrs. 25% reduction **CDMGE50**[1] 8 hrs. 50% reduction **CDMGE75**[1] 8 hrs. 75% reduction **CDMGM25**[1] 6 hrs. 25% reduction **CDMGM50**[1] 6 hrs. 50% reduction **CDMGM75**[1] 6 hrs. 75% reduction **CDMGS25**[1] 4 hrs. 25% reduction **CDMGS50**[1] 4 hrs. 50% reduction **CDMGS75**[1] 4 hrs. 75% reduction **CDMGP**[1] Dimming level determined by the user **CLO**[1] Pre-set driver manages lumen depreciation **DALI**[1] Pre-set driver compatible with the DALI control system **DMG** 0-10V **OTL**[1] Pre-set driver to signal end of life of the lamp **SRD**[1] Sensor ready driver, standard configuration **SRD1**[1] Sensor ready driver, alternate configuration	**MA1** $1^{1}/_{4}$" NPT threaded hole adaptor accepting a threaded tube. **MA2** 1.5" NPT threaded hole adaptor accepting a threaded tube **SMB** Decorative contemporary side-mounted cast-aluminum, accepts tubes from $1^{5}/_{8}$" to $2^{3}/_{8}$"	**CR20** Decorative Crown **CR30** Decorative Crown **CR40** Decorative Crown **DA**[4] Decorative Arches **DC**[4] Decorative Cap **GRD** Decorative Guard **HS** House Side Shield **PH7** Photoelectric cell, bottom type **PH8**[5,6] Photoelectric cell **PH9**[5,6] Shorting Cap **PHXL**[5,6] Photoelectric cell, extended life **RCD**[5,7] Receptacle 5 pins **RCD7**[5,7] Receptacle 7 pins **SP2** 20kV/20kA Surge Protector (optional)	Consult with signify.com for details and the complete line of Signify poles and brackets.	**Textured** **BE2TX** Midnight Blue **BE6TX** Ocean Blue **BE8TX** Royal Blue **BG2TX** Sandstone **BKTX** Black **BRTX** Bronze **GN4TX** Blue Green **GN6TX** Forest Green **GN8TX** Dark Forest Green **GNTX** Green **GY3TX** Medium Grey **RD2TX** Burgundy **RD4TX** Scarlet **WHTX** White **Other** **GR** Gray Sandtex **NP** Natural Aluminum **TG** Hammertone Gold

1. Not available 347-480 volt.
2. Globe Material ACDR is required with this optical system.
3. Not available with HS option.
4. GRD options is required with these options.
5. SMB adaptors is required for this option.
6. Luminaire option RCD or RCD7 is required with these Options.
7. Use of photoelectric cell or shorting cap is required to ensure proper illumination.

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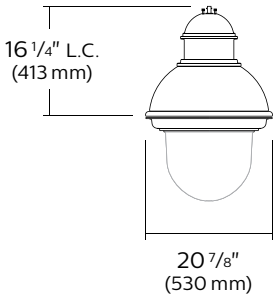
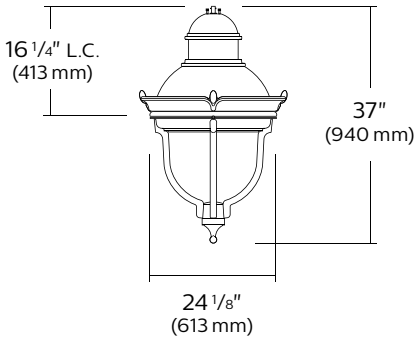
Dimensions



AT50

EPA: 1.35 sq.ft.
Weight: 35.5 lbs. (16.1 kg)



AT50
(shown w/CR30 & GRD)

EPA: 1.58 sq.ft.
Weight: 51.5 lbs. (23.3 kg)

LED Wattage and Lumen Values: for AT50 with Flat lens

Ordering Code: Flat lens (3000K)	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2F			LE3F			LE4F			LE5F		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
AT50-35W32LED3K-G2	32	350	37	3728	101	B1-U0-G1	3597	97	B1-U0-G1	3739	101	B1-U0-G1	3787	102	B2-U0-G1
AT50-55W32LED3K-G2	32	530	54	5347	99	B1-U0-G1	5159	96	B1-U0-G1	5363	99	B1-U0-G1	5432	101	B3-U0-G1
AT50-72W32LED3K-G2	32	700	73	6744	92	B2-U0-G1	6507	89	B1-U0-G1	6764	93	B1-U0-G2	6851	94	B3-U0-G1
AT50-55W48LED3K-G2	48	350	54	5592	104	B1-U0-G1	5396	100	B1-U0-G1	5609	104	B1-U0-G1	5681	105	B3-U0-G1
AT50-80W48LED3K-G2	48	530	80	8021	100	B2-U0-G1	7739	97	B1-U0-G2	8045	101	B2-U0-G2	8148	102	B3-U0-G2

Ordering Code: Flat lens (4000K)	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2F			LE3F			LE4F			LE5F		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
AT50-35W32LED4K-G2	32	350	37	4175	113	B1-U0-G1	4029	109	B1-U0-G1	4188	113	B1-U0-G1	4241	115	B3-U0-G1
AT50-55W32LED4K-G2	32	530	54	5989	111	B2-U0-G1	5779	107	B1-U0-G1	6007	111	B1-U0-G2	6084	113	B3-U0-G1
AT50-72W32LED4K-G2	32	700	73	7553	103	B2-U0-G1	7288	100	B1-U0-G2	7576	104	B2-U0-G2	7673	105	B3-U0-G2
AT50-55W48LED4K-G2	48	350	54	6263	116	B2-U0-G1	6043	112	B1-U0-G1	6282	116	B1-U0-G2	6362	118	B3-U0-G1
AT50-80W48LED4K-G2	48	530	80	8984	112	B2-U0-G1	8668	108	B2-U0-G2	9010	113	B2-U0-G2	9126	114	B3-U0-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at signify.com/outdoorluminaires.
Note: Some data may be scaled based on tests of similar. But not identical luminaires.

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LED Wattage and Lumen Values: for AT50 with Sag lens

Ordering Code: Sag lens (3000K)	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2S			LE3S			LE4S			LE5S		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
AT50-35W32LED3K-G2	32	350	37	3825	103	B1-U0-G1	3759	102	B1-U0-G1	3713	100	B1-U0-G1	3838	104	B3-U0-G1
AT50-55W32LED3K-G2	32	530	54	5486	102	B1-U0-G1	5392	100	B1-U0-G1	5326	99	B1-U0-G2	5505	102	B3-U0-G1
AT50-72W32LED3K-G2	32	700	73	6920	95	B2-U0-G1	6800	93	B1-U0-G2	6717	92	B1-U0-G2	6943	95	B3-U0-G2
AT50-55W48LED3K-G2	48	350	54	5738	106	B1-U0-G1	5639	104	B1-U0-G1	5570	103	B1-U0-G2	5757	107	B3-U0-G1
AT50-80W48LED3K-G2	48	530	80	8230	103	B2-U0-G2	8088	101	B2-U0-G2	7989	100	B1-U0-G2	8258	103	B3-U0-G2

Ordering Code: Sag lens (4000K)	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2S			LE3S			LE4S			LE5S		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
AT50-35W32LED4K-G2	32	350	37	4284	116	B1-U0-G1	4210	114	B1-U0-G1	4159	112	B1-U0-G1	4299	116	B3-U0-G1
AT50-55W32LED4K-G2	32	530	54	6145	114	B1-U0-G1	6039	112	B1-U0-G1	5965	110	B1-U0-G2	6166	114	B3-U0-G1
AT50-72W32LED4K-G2	32	700	73	7750	106	B2-U0-G1	7616	104	B2-U0-G2	7523	103	B1-U0-G2	7776	107	B3-U0-G2
AT50-55W48LED4K-G2	48	350	54	6426	119	B2-U0-G1	6315	117	B1-U0-G1	6238	116	B1-U0-G2	6448	119	B3-U0-G2
AT50-80W48LED4K-G2	48	530	80	9217	115	B2-U0-G2	9058	113	B2-U0-G2	8947	112	B2-U0-G2	9249	116	B4-U0-G2

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Note: Some data may be scaled based on tests of similar. But not identical luminaires.

LED Wattage and Lumen Values: for AT50 with Globe

Ordering Code: Globe (3000K)	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2A			LE3A			LE4A		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
AT50-35W32LED3K-G2	32	350	37	3746	101	B1-U3-G1	3615	98	B1-U3-G1	3749	101	B1-U3-G1
AT50-55W32LED3K-G2	32	530	54	5373	100	B2-U3-G2	5185	96	B1-U3-G1	5377	100	B1-U3-G2
AT50-72W32LED3K-G2	32	700	73	6777	93	B2-U3-G2	6540	90	B1-U3-G2	6782	93	B1-U3-G2
AT50-55W48LED3K-G2	48	350	54	5619	104	B2-U3-G2	5423	100	B1-U3-G1	5624	104	B1-U3-G2
AT50-80W48LED3K-G2	48	530	80	8060	101	B2-U3-G2	7778	97	B2-U3-G2	8066	101	B1-U3-G2

Ordering Code: Globe (4000K)	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2A			LE3A			LE4A		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
AT50-35W32LED4K-G2	32	350	37	4196	113	B1-U3-G1	4049	109	B1-U3-G1	4199	113	B1-U3-G1
AT50-55W32LED4K-G2	32	530	54	6018	111	B2-U3-G2	5808	108	B1-U3-G2	6023	112	B1-U3-G2
AT50-72W32LED4K-G2	32	700	73	7590	104	B2-U3-G2	7324	100	B2-U3-G2	7596	104	B1-U3-G2
AT50-55W48LED4K-G2	48	350	54	6293	117	B2-U3-G2	6073	112	B1-U3-G2	6298	117	B1-U3-G2
AT50-80W48LED4K-G2	48	530	80	9027	113	B2-U3-G2	8711	109	B2-U3-G2	9034	113	B2-U3-G2

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at signify.com/outdoorluminaires.
Note: Some data may be scaled based on tests of similar. But not identical luminaires.

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Specifications

Housing

Hood: Spun aluminum 1100 0 dome, mechanically assembled on the luminaire.

Housing: In a round shape, this housing is made of cast 356 aluminum, c/w a watertight grommet, mechanically assembled to the bracket with four bolts 3/8 16 UNC. This suspension system permits for a full rotation of the luminaire in 90° increments

Access-mechanism

A die cast A360 aluminum technical ring with latch and hinge. The mechanism shall offer tool free access to the inside of the luminaire. An embedded memory retentive gasket shall ensure weatherproofing.

Light engine

LEDgine composed of 5 main components: Heat Sink / Lens / LED lamp / Driver / Optical System. Electrical components are RoHS compliant.

LED engine

Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/-275K or 3710K to 4260K) or Warm white, 3000 Kelvin nominal (3045K +/- 175K or 2870K to 3220K), CRI 70 Min. 75 Typical.

Lens

LExF / LExS: Made of soda lime tempered glass lens, mechanically assembled and sealed onto the lower part of the heat sink.

LExA (Globe): Made of one-piece seamless injection-molded impact-resistant (DR) acrylic having an inner prismatic surface. The globe is mechanically assembled and sealed onto the lower part of the heat sink.

Heat sink

Made of cast aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Optical system

Composed of high performance optical grade PMMA acrylic refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM 63, LM 79 and TM 15 (IESNA) certifying its photometric performance. Street side indicated.

Prismatic globe: IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with globe having an inner prismatic surface permanently sealed onto the lower part of the heat sink.

LE2A - Type II (ASYM) with globe (ACDR)
LE3A - Type III (ASYM) with globe (ACDR)
LE4A - Type IV (ASYM) with globe (ACDR)

Sag lens: IP66 rated optical system, composed of individual pre-oriented lens to achieve desired distribution, assembled with a tempered-glass sag lens permanently sealed onto the lower part of the heat sink.

LE2S - Type II (ASYM) with sag glass lens
LE3S - Type III (ASYM) with sag glass lens
LE4S - Type IV (ASYM) with sag glass lens
LE5S - Type V (SYMM) with sag glass lens

Flat lens: IP66 rated optical system, composed of individual preoriented lens to achieve desired distribution, assembled with a tempered-glass flat lens permanently sealed onto the lower part of the heat sink.

LE2F - Type II (ASYM) with flat glass lens
LE3F - Type III (ASYM) with flat glass lens
LE4F - Type IV (ASYM) with flat glass lens
LE5F - Type V (SYMM) with flat glass lens

Driver

Driver comes standard with dimming compatible 0-10V. High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max.

Maximum ambient operating temperature from 40°F (40°C) to 130°F (55°C). Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221°F (105°C). The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Surge protector

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA. SP2 20kV/20kA optional.

Driver options

AST: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.

CLO: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.

OTL: Pre-set driver to signal end of life of the LED module(s) for better fixture management.

DMG: Dimmable driver 0-10V.

CDMG: Dynadimmer standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

* Contact factory for DALI options.

Order Code	Dimming		
	Scenario	Duration	Level
CDMGS25	Safety	4 hours	25%
CDMGS50	Safety	4 hours	50%
CDMGS75	Safety	4 hours	75%
CDMGM25	Median	6 hours	25%
CDMGM50	Median	6 hours	50%
CDMGM75	Median	6 hours	75%
CDMGE25	Economy	8 hours	25%
CDMGE50	Economy	8 hours	50%
CDMGE75	Economy	8 hours	75%

SRD: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle.

SRD1: Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock.

LED Performance

Predicted lumen depreciation data[1]				
Ambient Temperature (°C)	Driver mA	Calculated L_{70} hours[1,2]	L_{70} per TM-21[2,3]	Lumen Maintenance % @ 60,000 hours
25°C	700 mA	>100,000	>60,000	86%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours.

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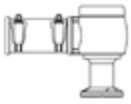
Specifications (continued)

Luminaire adaptor

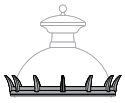
MA1: The luminaire is suspended by means of a mounting adaptor with a 1" (32mm) NPT threaded hole accepting a threaded tube from the mounting. Retrofit adaptor for existing mounting.

MA2: MA2: 1." (38mm) NPT threaded hole accepting threaded tube from the mounting. Retrofit adaptor for existing mounting.

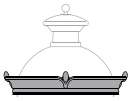


SMB: The luminaire is suspended by means of a decorative side-mounted cast aluminum adaptor. This adaptor accepts tubes from 1 5/8" to 2 3/8" (41 to 60 mm) and is adjustable to more or less 5°.

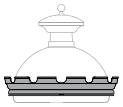
Luminaire options



CR20
Decorative
Crown



CR30
Decorative
Crown



CR40
Decorative
Crown

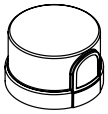
DA
Decorative
arches

DC
Decorative
cap

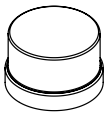
GRD
Decorative
guard

HS
House
side shield

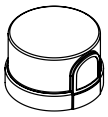
PH7
Photoelectric cell,
bottom type



PH8
Photoelectric cell,
twist-lock type.
Allows 90° rotation



PH9
Shorting cap,
twist-lock type



PHXL
Extended life Photoelectric
cell, twist-lock type
Allows 90° rotation

RCD
Receptacle
5-pins

RCD7
Receptacle
7-pins

SP2
20kV/20kA integral
surge protector (optional)

Fitter

Cast 356 aluminum c/w 4 set screws 3/8 16 UNC. This fitter holds 2 arms made of cast aluminum 356 mechanically assembled. Slip fits on a 4" (102mm) outside diameter X 4" (102mm) long tenon.

Finish

In accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with +/- 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

Textured Finish Options:

BE2TX: Textured Midnight Blue
BE6TX: Textured Ocean Blue
BE8TX: Textured Royal Blue
BG2TX: Textured Sandstone
BKTX: Textured Black
BRTX: Textured Bronze
GN4TX: Textured Blue Green
GN6TX: Textured Forest Green
GN8TX: Textured Dark Forest Green
GNTX: Textured Green
GY3TX: Textured Medium Grey
RD2TX: Textured Burgundy
RD4TX: Textured Scarlet
WHTX: Textured White

Non-Textured Finish Options:

GR: Gray Sandtex
NP: Natural Aluminum
TG: Hammer-tone Gold

Luminaire useful life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, using LM-80 data from LED manufacturers and engineering prediction methods, the luminaire useful life is expected to reach 100,000+ hours with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +35°C / +95°F.

Hardware

All exposed screws shall be complete with Ceramic primer-seal base coat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Wiring

Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

Quality control

Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

LED products (manufacturing standard)

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340 5 1 and ANSI/ ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Quality control

Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

Certifications and Compliance

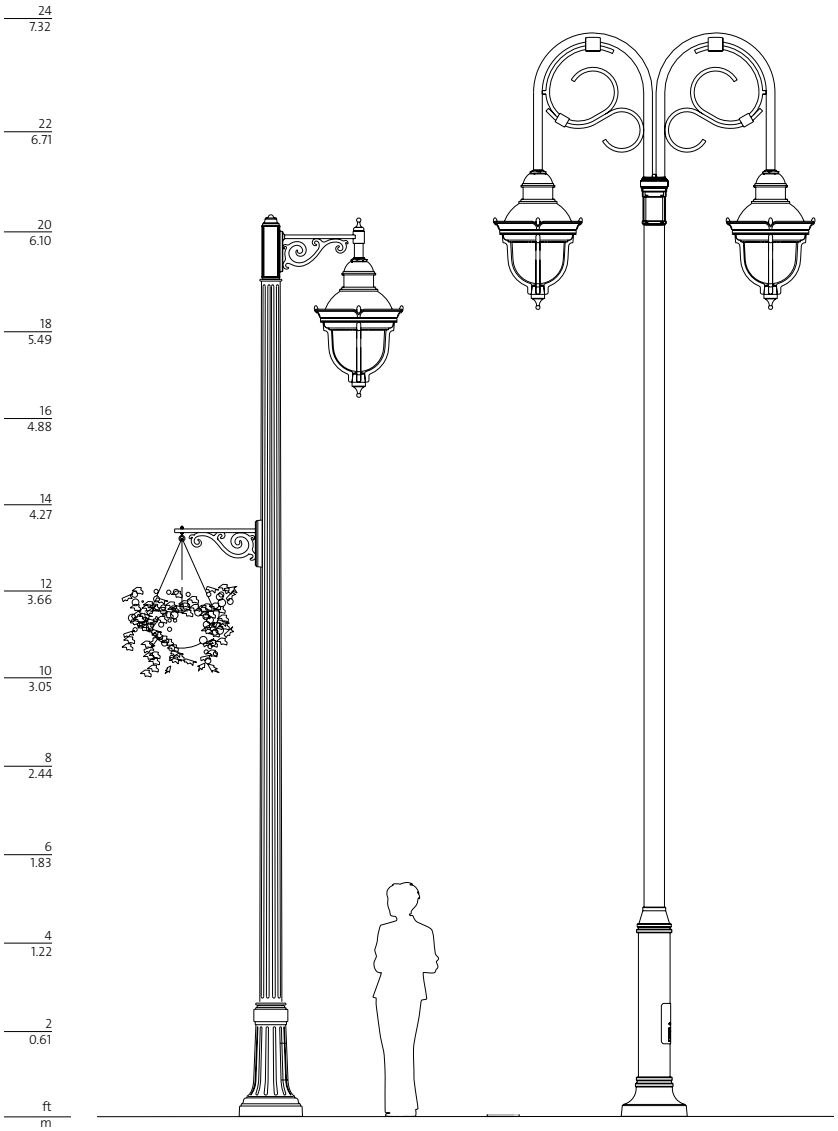
CSA, cULus Listed for Canada and USA.

Luminaires are DesignLights Consortium qualified.

AT50 Ancestra LED Pendant

Urban Luminaire

Poles



AT50-GRD-CR30
Mounting: CRAT-1A
Pole: RTA906/907-PSCRA

AT50-GRD
Mounting: RM-2
Pole: SSM8

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