LUMEC
by signify

Urban

Ancestra

AT10/AT20/AT30/AT40 Post Top

Lumec **Ancestra** LED post top 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: AT20-72W32LED3K-G3-ACDR-LE3A-120-DMG-RC-GN8TX

Series	LED module	Gen.	Globe	Optical system	Voltage	Driver options	Luminaire options		Poles/Brackets	Finish
AT10 **AT20** **AT30** **AT40**	**3000K** **35W32LED3K**[1] **55W32LED3K**[1] **55W48LED3K** **72W32LED3K** **80W48LED3K** **4000K** **35W32LED4K**[1] **55W32LED4K**[1] **55W48LED4K** **72W32LED4K** **80W48LED4K**	**G3** Gen 3	**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 to manage lumen depreciation **DMG** 0-10V **OTL**[1] Pre-set driver to signal end of life of the lamp	**CPT**[6] Copper cupola **CPTC**[6] Varnished copper cupola **HS** House side shield **PH8**[6] Photoelectric cell **PH9**[6] Shorting cap **PHXL**[6] Photoelectric cell, extended life **RCD7**[5] Receptacle 7 pin **RC**[4,6] Receptacle 3-pins **SP2** (optional) 20kV/20kA surge protector **TN2.875C** 2-7/8" dia. tenon adaptor **TN3** 3" dia. tenon adaptor **TN3.5** 3-1/2" dia. tenon adaptor **WC**[5] Without cupola **SRD**[1] Sensor ready driver, standard configuration **SRD1**[1] Sensor ready driver, alternate configuration	**Decorative items** **DA** Decorative arches **DC** Decorative cap **FN1**[6] Decorative finial **FN2**[6] Decorative finial **FN3**[6] Decorative finial **FN5**[6] Decorative finial **FN6**[6] Decorative finial **FN8**[6] Decorative finial **FN9**[6] Decorative finial **FN10**[6] Decorative finial **FNC**[6] Decorative finial painted copper	Consult with Signify.com/luminaires for details and the complete line of 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. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
5. If RCD7 is required you need to select WC without cupola.
   The RCD7 is located on top of the roof in place of the cupola for use with a control node.
6. Not available with WC option.

Note: If DALI or 5 or 7 pin receptacle is required contact factory

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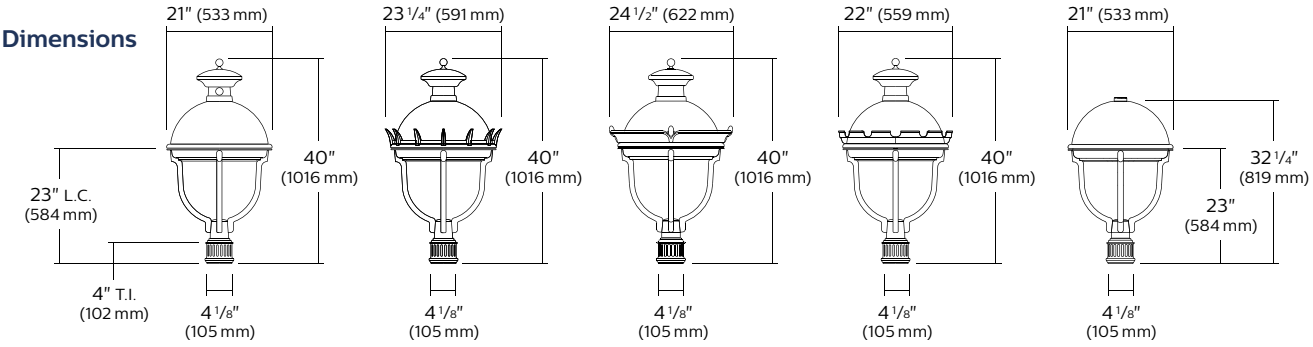
Urban Luminaire

Dimensions



AT10-C
EPA: 1.86 sq.ft.
Weight: 40.5 lbs. (18 kg)

AT20-C
EPA: 1.58 sq.ft.
Weight: 40.5 lbs. (18 kg)

AT30-C
EPA: 1.86 sq.ft.
Weight: 40.5 lbs. (18 kg)

AT40-C
EPA: 1.58 sq.ft.
Weight: 40.5 lbs. (18 kg)

AT40-WC-RCD7
EPA: 1.58 sq.ft.
Weight: 40.5 lbs. (18 kg)

LED Wattage and Lumen Values: for AT50

Ordering Code:	Total LEDs	LED current (mA)	Average System Wattage (W)	LE2F			LE3F			LE4F			LE5F		
				Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
Flat Lens 3000K															
35W32LED3K-G3-x	32	350	37	4066	B1-U0-G1	110	4048	B1-U0-G1	109	4007	B1-U0-G1	108	3944	B3-U0-G1	107
55W32LED3K-G3-x	32	530	54	5833	B1-U0-G1	108	5807	B1-U0-G1	108	5747	B1-U0-G2	106	5657	B3-U0-G1	105
72W32LED3K-G3-x	32	700	73	7356	B2-U0-G1	101	7323	B1-U0-G2	100	7248	B1-U0-G2	99	7134	B3-U0-G2	98
55W48LED3K-G3-x	48	350	54	6100	B1-U0-G1	113	6072	B1-U0-G1	112	6010	B1-U0-G2	111	5916	B3-U0-G1	110
80W48LED3K-G3-x	48	530	80	8749	B2-U0-G1	109	8710	B2-U0-G2	109	8620	B2-U0-G2	108	8485	B3-U0-G2	106
Flat Lens 4000K															
35W32LED4K-G3-x	32	350	37	4269	B1-U0-G1	115	4250	B1-U0-G1	115	4207	B1-U0-G1	114	4141	B3-U0-G1	112
55W32LED4K-G3-x	32	530	54	6125	B1-U0-G1	113	6097	B1-U0-G1	113	6034	B1-U0-G2	112	5940	B3-U0-G1	110
72W32LED4K-G3-x	32	700	73	7724	B2-U0-G1	106	7689	B1-U0-G2	105	7610	B1-U0-G2	104	7491	B3-U0-G2	103
55W48LED4K-G3-x	48	350	54	6405	B1-U0-G1	119	6376	B1-U0-G1	118	6311	B1-U0-G2	117	6212	B3-U0-G1	115
80W48LED4K-G3-x	48	530	80	9186	B2-U0-G2	115	9146	B2-U0-G2	114	9051	B2-U0-G2	113	8909	B3-U0-G2	111
Sag Lens 3000K															
35W32LED3K-G3-x	32	350	37	4203	B1-U0-G1	114	4099	B1-U0-G1	111	4069	B1-U0-G1	110	3911	B3-U0-G1	106
55W32LED3K-G3-x	32	530	54	6029	B1-U0-G1	112	5879	B1-U0-G1	109	5836	B1-U0-G2	108	5610	B3-U0-G1	104
72W32LED3K-G3-x	32	700	73	7603	B2-U0-G1	104	7415	B1-U0-G2	102	7361	B1-U0-G2	101	7075	B3-U0-G2	97
55W48LED3K-G3-x	48	350	54	6304	B1-U0-G1	117	6148	B1-U0-G2	114	6104	B1-U0-G2	113	5866	B3-U0-G1	109
80W48LED3K-G3-x	48	530	80	9043	B2-U0-G2	113	8819	B1-U0-G2	110	8755	B1-U0-G2	109	8414	B3-U0-G2	105
Sag Lens 4000K															
35W32LED4K-G3-x	32	350	37	4413	B1-U0-G1	119	4304	B1-U0-G1	116	4272	B1-U0-G1	115	4107	B3-U0-G1	111
55W32LED4K-G3-x	32	530	54	6330	B1-U0-G1	117	6173	B1-U0-G1	114	6128	B1-U0-G2	113	5891	B3-U0-G1	109
72W32LED4K-G3-x	32	700	73	7983	B2-U0-G2	109	7786	B1-U0-G2	107	7729	B1-U0-G2	106	7429	B3-U0-G2	102
55W48LED4K-G3-x	48	350	54	6619	B1-U0-G1	123	6455	B1-U0-G2	120	6409	B1-U0-G2	119	6159	B3-U0-G1	114
80W48LED4K-G3-x	48	530	80	9495	B2-U0-G2	119	9260	B2-U0-G2	116	9193	B1-U0-G2	115	8835	B4-U0-G2	110
Prism Globe 3000K															
35W32LED3K-G3-x	32	350	37	4131	B1-U3-G1	112	4014	B1-U3-G1	108	4166	B1-U3-G1	113	–	–	–
55W32LED3K-G3-x	32	530	54	5926	B1-U3-G1	110	5691	B1-U3-G1	105	5976	B1-U3-G2	111	–	–	–
72W32LED3K-G3-x	32	700	73	7473	B2-U3-G2	102	7210	B2-U3-G2	99	7537	B1-U3-G2	103	–	–	–
55W48LED3K-G3-x	48	350	54	6197	B1-U3-G1	115	6119	B1-U3-G2	113	6249	B1-U3-G2	116	–	–	–
80W48LED3K-G3-x	48	530	80	8888	B2-U3-G2	111	8542	B2-U3-G2	107	8964	B2-U3-G2	112	–	–	–
Prism Globe 4000K															
35W32LED4K-G3-x	32	350	37	4338	B1-U3-G1	117	4215	B1-U3-G1	114	4374	B1-U3-G1	118	–	–	–
55W32LED4K-G3-x	32	530	54	6222	B1-U3-G1	115	5976	B1-U3-G2	111	6275	B1-U3-G2	116	–	–	–
72W32LED4K-G3-x	32	700	73	7847	B2-U3-G2	107	7571	B2-U3-G2	104	7914	B1-U3-G2	108	–	–	–
55W48LED4K-G3-x	48	350	54	6507	B1-U3-G1	121	6425	B1-U3-G2	119	6561	B1-U3-G2	122	–	–	–
80W48LED4K-G3-x	48	530	80	9332	B2-U3-G2	117	8969	B2-U3-G2	112	9412	B2-U3-G2	118	–	–	–

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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Urban Luminaire

Specifications

Housing

Finial: Decorative cast 356 aluminum, mechanically assembled.

Cupola: Decorative spun aluminum 1100 0, mechanically mounted on hood.

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

Guard: In a round shape with 4 arms, this guard is a one piece cast aluminum 356 welded to the fitter.

Access-mechanism

A die cast A360 aluminum technical ring with latch, hinge and a cast in decorative skirt. 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).

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.

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.

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Urban Luminaire

Specifications (continued)

Luminaire options

CPT Copper cupola

CPTC Varnished copper cupola

DA Decorative arches

DC Decorative cap


FN1 Decorative finial


FN2 Decorative finial


FN3 Decorative finial


FN5 Decorative finial


FN6 Decorative finial

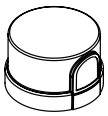

FN8 Decorative finial

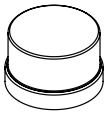

FN9 Decorative finial

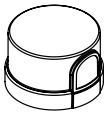

FN10 Decorative finial

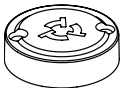
FNC Decorative finial painted copper


HS
House
side shield


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


PH9
Shorting cap,
twist-lock type

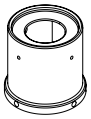

PHXL
Extended life Photoelectric
cell, twist-lock type
Allows 90° rotation

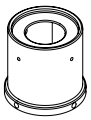

RC
Receptacle
3-pins

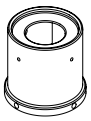

RCD7
Receptacle
7-pins

SP2 20kV/10kA integral
surge protector (optional)

WC Without Cupola


TN2.875C
2-7/8" dia.
tenon adaptor


TN3
3" dia.
tenon adaptor


TN3.5
3-1/2" dia.
tenon adaptor

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

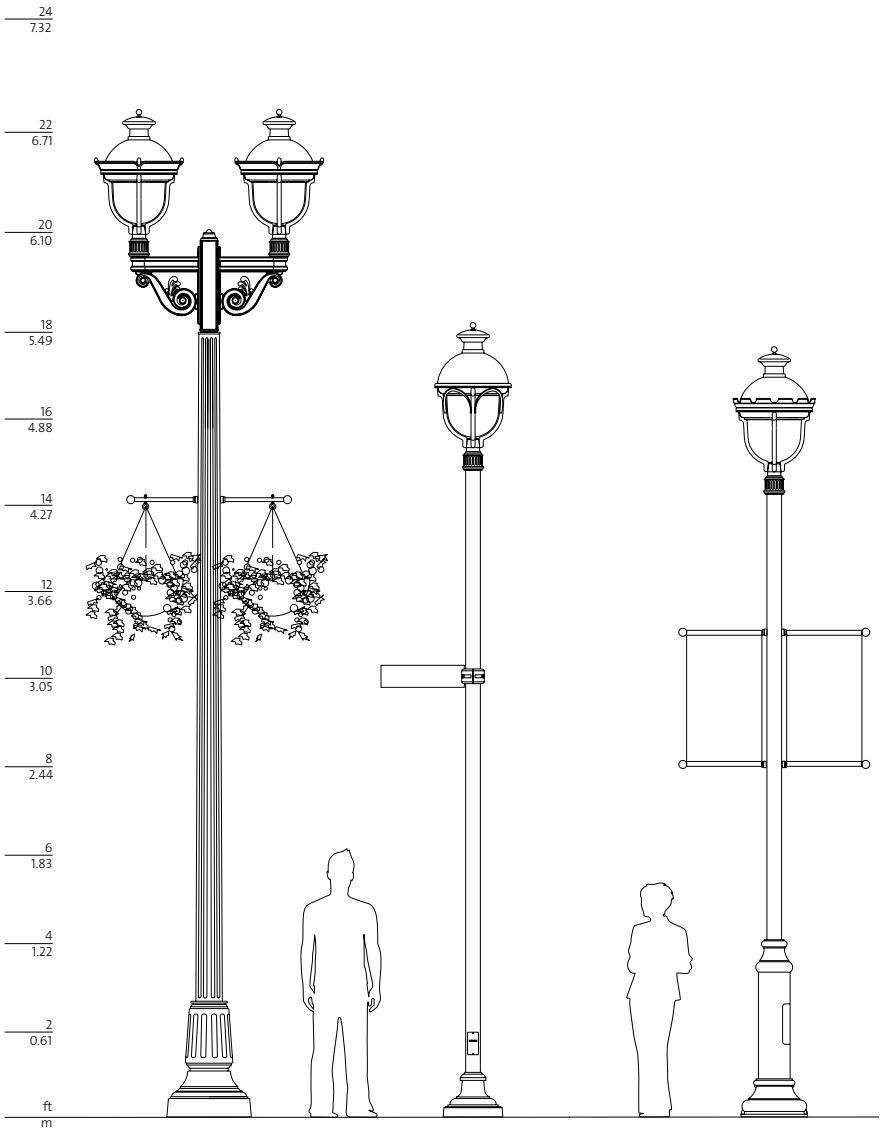
CSA, cULus Listed for Canada and USA.

Luminaires are DesignLights Consortium qualified.

AT10/AT20/AT30/AT40 Ancestra LED Pendant Post Top

Urban Luminaire

Poles



AT30
Mounting: CRE-2
Pole: RTA927-PS

AT10
Pole: APR4-LBC3-SA1

AT40
Mounting: CRC-1A
Pole: RA61-BA

Consult signify.com/outdoorluminaires for details and the complete line of poles and brackets.

Signify North America Corporation
200 Franklin Square Drive,
Somerset, NJ 08873
Telephone 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008