

Lumec Optima LED post top and pedant luminaires are the perfect choice for urban projects such as streets, walkways and public spaces that compel that extra little bit of detail. This timeless luminaire is made from top-quality materials, is easy to maintain, and adds a distinctive decorative aspect to any contemporary environment. Paired with the latest LED technology, its IP66 rating, multiple lumen outputs, various luminaire style options and energy-saving control options are well suited to meet wide range of project requirements.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: _____
 Notes: _____

Ordering guide

example: MSR-C-196L450WW-G1-1-UNV-DMG-SMA-RCD-BKTX

Series	LED module	Gen.	Optical system	Voltage	Driver options	Adapters	Options				Poles/ Brackets	Finish							
							Receptacle	Control	Luminaire	Decorative									
OT10-C OT20-C Optima LED post top luminaire with Comfort optics	3000K ¹	G2	1 Type I (ASYM) 2 Type II (ASYM) 3 Type III (ASYM) 4 Type IV (ASYM) 5 Type V (SYMM)	UNV 120-277VAC 347 347VAC 480 480VAC	DMG 0-10V SRD ¹ Sensor ready driver, standard configuration SRD1 ¹ Sensor ready driver, alternate configuration	MA1 1 1/4" NPT threaded hole adapter, accepts threaded tube MA2 1 1/2" NPT threaded hole adapter, accepts threaded tube SMA Decorative retro side-mounted cast-aluminum, accepts tubes from 1 1/8" to 2 3/8" SMB Decorative contemporary side-mounted cast-aluminum, accepts tubes from 1 1/8" to 2 3/8"	RCD ² Receptacle for twist-lock photocell or shorting cap, 5-pin (standard) RCD7 ² Receptacle for twist-lock photocell or shorting cap, 7-pin (optional)	PH8 ³ Twist-lock Photoelectric Cell PH9 ³ Shorting cap PHXL ^{1,3} Twist-lock Photoelectric Cell, extended life, UNV (120-277VAC)	SP2 20kW/20kA Surge Protector (optional)	FN1 ⁵ Finial FN2 ⁵ Finial FN3 ⁵ Finial FN5 ⁵ Finial FN6 ⁵ Finial FN8 ⁵ Finial FN9 ⁵ Finial FN10 ⁵ Finial FNC ⁵ Finial painted copper TN2.87 2 1/2" (73mm) O.D. by 4" (102mm) long tenon TN3 Fitter to fit over a 3" (76mm) O.D. by 4" (102mm) long tenon TN3.5 Fitter to fit over a 3 1/2" (89mm) O.D. by 4" (102mm) long tenon DA Decorative arches DC Decorative cap DFN10 Decorative cupola DFN20 Decorative cupola	Visit us online at Signify.com/luminaires for details and the complete line of poles and brackets.	Textured							
	196L450WW5	Gen2										1	347	1 1/4"	Receptacle for twist-lock photocell or shorting cap, 5-pin (standard)	Twist-lock Photoelectric Cell	20kW/20kA Surge Protector (optional)	FN2 ⁵ Finial	BE2TX Midnight Blue
	196L650WW5											2	347VAC	1 1/4"	Receptacle for twist-lock photocell or shorting cap, 5-pin (standard)	Shorting cap	Surge Protector (optional)	FN3 ⁵ Finial	BE6TX Ocean Blue
	196L1150WW											3	480	1 1/2"	Receptacle for twist-lock photocell or shorting cap, 5-pin (standard)	Shorting cap	Surge Protector (optional)	FN5 ⁵ Finial	BE8TX Royal Blue
	196L1675WW											4	480VAC	1 1/2"	Receptacle for twist-lock photocell or shorting cap, 5-pin (standard)	Shorting cap	Surge Protector (optional)	FN6 ⁵ Finial	BG2TX Sandstone
	196L2100WW											5	480VAC	1 1/2"	Receptacle for twist-lock photocell or shorting cap, 5-pin (standard)	Shorting cap	Surge Protector (optional)	FN8 ⁵ Finial	BKTX Black
	4000K																	FN9 ⁵ Finial	BRTX Bronze
	196L450NW5																	FN10 ⁵ Finial	GN4TX Blue Green
	196L650NW5																	FNC ⁵ Finial painted copper	GN6TX Forest Green
	196L1150NW																	TN2.87	GN8TX Dark Forest Green
196L1675NW								TN3	GNTX Green										
196L2100NW								TN3.5	GY3TX Medium Grey										
								DA	RD2TX Burgundy										
								DC	RD4TX Scarlet										
								DFN10	WHTX White										
								DFN20	Other										
									GR Gray Sandtex										
									NP Natural Aluminum										
									TG Hammerstone Gold										

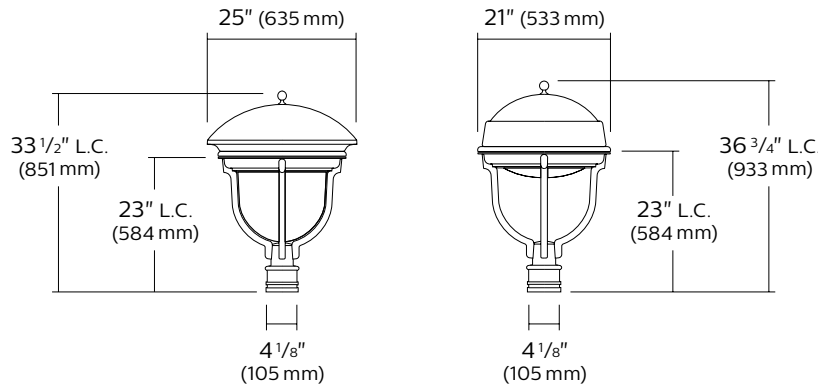
1. Not available with 347V and 480V.
 2. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
 3. The RCD7 is located on top of the roof in place of the finial for use with a control node.
 4. Not available with RCD7.

4. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

OT10-C/OT20-C Optima LED Post Top

Urban Luminaire

Dimensions



OT10
(shown w/globe)

OT20
(shown w/sag lens)

EPA: 1.74 sq.ft.
Weight: 47 lbs. (21.3 kg)

EPA: 1.42 sq.ft.
Weight: 47 lbs. (21.3 kg)

3000K Lumen Values

Ordering Code	Total LEDs	LED current (mA)	Ave. System Wattage (W)	Type 1			Type 2			Type 3		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
196L450WW-G2	196	450	21	1916	91	B1-U0-G1	1930	92	B1-U0-G1	2029	97	B1-U0-G1
196L650WW-G2	196	650	30	2709	90	B1-U0-G1	2729	91	B1-U0-G1	2869	96	B1-U0-G1
196L1150WW-G2	196	1150	52	4735	91	B2-U0-G2	4769	92	B2-U0-G2	5014	96	B2-U0-G2
196L1675WW-G2	196	1675	75	6556	87	B3-U0-G3	6604	88	B2-U0-G2	6942	93	B2-U0-G2
196L2100WW-G2	196	2100	94	7998	85	B3-U0-G3	8056	86	B3-U0-G3	8469	90	B3-U0-G3

Ordering Code	Total LEDs	LED current (mA)	Ave. System Wattage (W)	Type 4			Type 5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
196L450WW-G2	196	450	21	2110	100	B1-U0-G1	1976	94	B1-U0-G1
196L650WW-G2	196	650	30	2984	99	B1-U0-G1	2794	93	B2-U0-G1
196L1150WW-G2	196	1150	52	5214	100	B2-U0-G2	4883	94	B3-U0-G1
196L1675WW-G2	196	1675	75	7219	96	B2-U0-G2	6761	90	B3-U0-G2
196L2100WW-G2	196	2100	94	8808	94	B3-U0-G3	8248	88	B3-U0-G2

4000K Lumen Values

Ordering Code	Total LEDs	LED current (mA)	Ave. System Wattage (W)	Type 1			Type 2			Type 3		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
196L450NW-G2	196	450	21	1993	95	B1-U0-G1	2007	96	B1-U0-G1	2110	100	B1-U0-G1
196L650NW-G2	196	650	30	2818	94	B2-U0-G2	2838	95	B1-U0-G1	2984	99	B1-U0-G1
196L1150NW-G2	196	1150	52	4924	95	B2-U0-G2	4960	95	B2-U0-G2	5214	100	B2-U0-G2
196L1675NW-G2	196	1675	75	6818	91	B3-U0-G3	6868	92	B3-U0-G3	7220	96	B2-U0-G2
196L2100NW-G2	196	2100	94	8318	88	B3-U0-G3	8379	89	B3-U0-G3	8808	94	B3-U0-G3

Ordering Code	Total LEDs	LED current (mA)	Ave. System Wattage (W)	Type 4			Type 5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
196L450NW-G2	196	450	21	2194	104	B1-U0-G1	2055	98	B1-U0-G1
196L650NW-G2	196	650	30	3103	103	B1-U0-G1	2906	97	B2-U0-G1
196L1150NW-G2	196	1150	52	5423	104	B2-U0-G2	5078	98	B3-U0-G1
196L1675NW-G2	196	1675	75	7508	100	B2-U0-G2	7031	94	B3-U0-G2
196L2100NW-G2	196	2100	94	9160	97	B2-U0-G2	8578	91	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/outdoorluminaire. Consult DLC QPL to confirm your specific fixture selection is DLC approved. Note: Some data may be scaled based on tests of similar but not identical luminaires.

OT10-C/OT20-C Optima LED Post Top

Urban Luminaire

Specifications

Housing

Finial: Decorative cast 356 aluminum, mechanically assembled.

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

Hood: Spun aluminum 1100 O 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

Light guide technology provides low-glare, uniform illumination. Composed of 196 LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Maximum ambient operating temperature up to 40°C(104°F). Standard color temperatures: 3000K +/- 130K, 4000K +/- 130K, Minimum CRI of 80. Also available in 2700K, 3500K, 5000K and Amber (>590nm) with extended lead times. Contact factory for details.

Optical System

The advanced LED comfort optical system provides Types 1, 2, 3, 4 and 5. Composed of high performance UV-stabilized optical grade lens with molded micro-optics to achieve desired distribution optimized to get an exceptional lighting uniformity. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Street side indicated luminaire designed with 0% uplight (U0 per IESNA TM-15).

Driver

High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 and 347 to 480 VAC rated, or both application line to line or line to neutral, Class 2, THD of 20% max. Maximum ambient operating temperature from 40°F (40°C) to 130°F (50°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). Dimmable driver 0-10V. 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) with CDMG, driver is class 1.

Driver options

DMG: Dimmable driver 0-10V.

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.

Surge Protection

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 0kV/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/10kA optional.

Wiring

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

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.

Quality Control

Manufactured to ISO 9001 2015 standards and ISO 14001-2015 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.

Certifications and Compliance

cULus Listed for Canada and USA.

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	up to 2100 mA	>100,000	>60,000	83%

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. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.

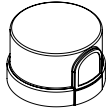
3. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

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Urban Luminaire

Specifications (continued)

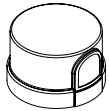
Control options



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

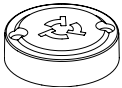


PH9
Shorting cap,
twist-lock type



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

Receptacle options

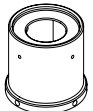


RC
Receptacle
3-pins

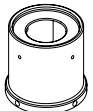


RCD7
Receptacle
7-pins

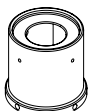
Luminaire options



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



TN3
3" dia.
tenon adaptor



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

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

Decorative options



FN1 Decorative finial



FN2 Decorative finial



FN3 Decorative finial



FN5 Decorative finial



FN6 Decorative finial



FN8 Decorative finial

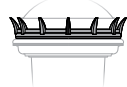


FN9 Decorative finial



FN10 Decorative finial

FNC Decorative finial painted copper



DA
Decorative
arches



DC
Decorative
cap

DF10 Decorative cupola
(DF10 with OT10)

DF20 Decorative cupola
(DF20 with OT20)

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

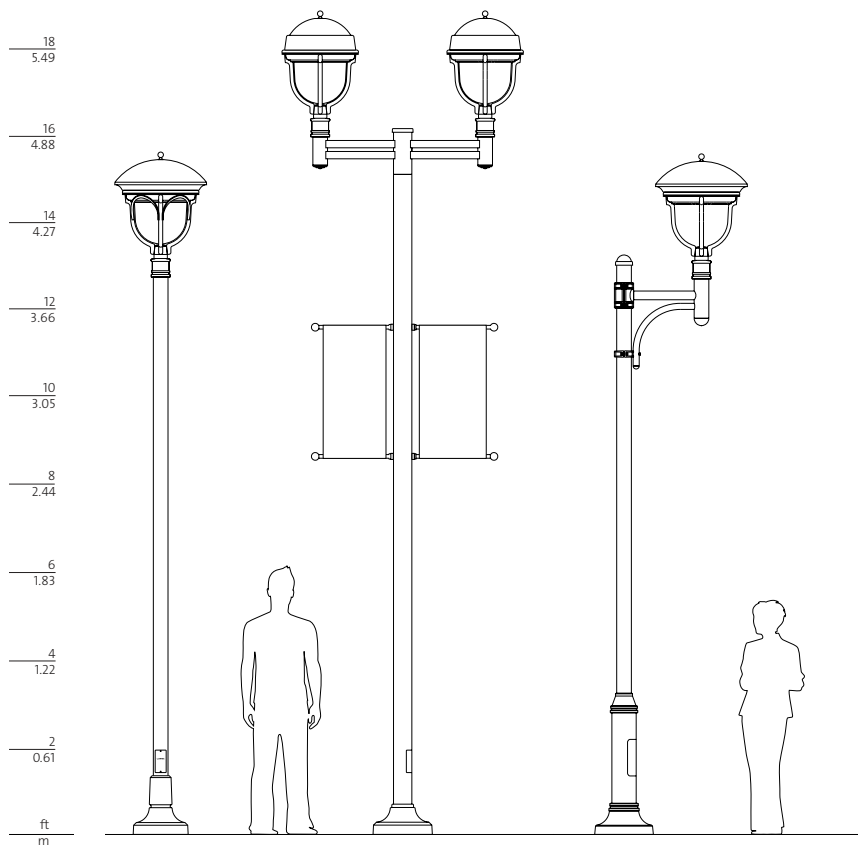
Non-Textured Finish Options:

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

OT10-C/OT20-C Optima LED Post Top

Urban Luminaire

Poles



OT10-C-DA
Pole: APR4-LBC2

OT20-C
Mounting: JR-2
Pole: APR5-LBC4S-BA

OT10-C
Mounting: M30-1A
Pole: RAF805

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



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