

DESCRIPTION

The Lexington AF24 LED outdoor luminaire displays the old-fashioned charm of traditional lantern-type post top lighting, enhancing any setting with distinctive styling. As a decorative luminaire, the Lexington LED tastefully complements the architectural and environmental design of parks and roadways. It's patented AccuLED Optics™ technology delivers uniform and efficient illumination to pedestrian and roadway applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

TOP: Hinged die-cast aluminum top with cupola cover. SCREWS: Captive retaining screw. HOUSING: Die-cast aluminum base housing. Standard color is black. Other finish colors available. Consult your Streetworks representative. 1" ANSI wattage/source label.

Optics

Choice of four patented, high efficiency AccuLED Optics™ technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology, creates consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K (70CRI) and 2700K (80 CRI). For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed. Optics are IP66 enclosure rated. Offered open sided as a standard with four lens options.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. 10 kV/10 kA common and differential mode and 10 kV MOV surge protection available.

Mounting

Self-aligning pole-top fitter fits 2-3/8" and 3" O.D. tenons. Square headed 1-1/4" polymer coated mounting bolts.

Finish

Cast components finished in a Super durable black TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Optional colors include: bronze, grey and white. RAL and custom color matches available.

Warranty

Standard five-year warranty. Optional ten-year warranty, please see your Cooper Lighting Solutions Streetworks sales representative for more information.

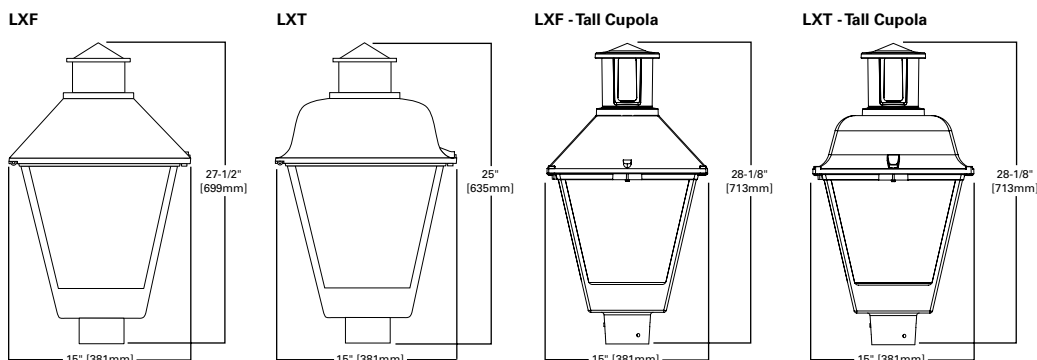


LXF/LXT LEXINGTON LED

AF24
LED

DECORATIVE POST TOP
LUMINAIRE

DIMENSIONS



CERTIFICATION DATA

UL/cUL Listed
ISO 9001
IP66 Rated Optics
LM79 / LM80 Compliant

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

EPA

Effective Projected Area: (Sq. Ft.)
1.7

SHIPPING DATA

Approximate Net Wt:
20.8 lbs. (9.4 kgs.)

POWER AND LUMENS

Light Engine	AF24-20	AF24-30	AF24-40	AF24-50	AF24-60	AF24-70	AF24-80	AF24-90	AF24-100	
Nominal Power (Watts)	21	31	40	54	64	74	83	94	96	
Wattage Label	20	30	40	50	60	70	80	90	100	
Current (A) @120V	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80	
Current (A) @277V	--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35	
Current (A) @347V	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28	
Current (A) @480V	--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21	
Optics										
T2U	4000K	2,488	3,491	4,521	5,831	6,738	7,556	8,259	8,904	9,016
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K	2,352	3,301	4,275	5,513	6,371	7,143	7,809	8,418	8,524
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K	2,470	3,467	4,490	5,790	6,690	7,502	8,201	8,841	8,953
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	3000K	2,336	3,278	4,245	5,475	6,325	7,093	7,754	8,359	8,464
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
SL3	4000K	2,391	3,354	4,344	5,603	6,474	7,260	7,936	8,556	8,663
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2
	3000K	2,261	3,172	4,108	5,298	6,121	6,864	7,503	8,088	8,191
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
T4W	4000K	2,460	3,452	4,471	5,766	6,662	7,472	8,167	8,806	8,916
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	3000K	2,326	3,265	4,227	5,452	6,300	7,064	7,721	8,324	8,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
5WQ	4000K	2,609	3,660	4,740	6,113	7,063	7,921	8,658	9,334	9,452
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	3000K	2,466	3,460	4,482	5,780	6,678	7,489	8,186	8,825	8,936
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99
50°C	0.96

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (50,000 hours)	TM-21 Lumen Maintenance (75,000 hours)	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)	Theoretical L70 (Hours)
25°C-50°C	>91%	>87%	>83%	>204,000	> 450,000

ORDERING INFORMATION

Sample Number: LXF-AF24-20-D-U-T2U-10MSP-4N7-BK

Product Family ¹	Light Engine ²	Wattage Bucket	Driver	Voltage	Distribution
LXF=Lexington LXT=Lexington w/Traditional Top	AF24=24 LED Light Engine	20=20W ³ 30=30W 40=40W 50=50W 60=60W 70=70W 80=80W 90=90W 100=100W	D=Dimming (0-10V) 5LTD=DALI ⁴	U=Universal (120-277V) 2=120V ³ 8=480V ⁵ 9=347V	T2U=Type II Urban T3=Type III SL3=Type III w/ Spill Control T4W=Type IV Wide 5WQ=Type V Square Wide
Options (Add as Suffix)		Color		Accessories (Order Separately)	
10K=10kV UL 1499 Surge Protection Device 10MSP=10kV MOV Surge Protection Device 7027=70 CRI / 2700K CCT ⁶ 7030=70 CRI / 3000K CCT ⁶ 8027=80 CRI / 2700K CCT ⁶ 4=NEMA Photocontrol Receptacle ⁷ 4N7=NEMA 7-PIN Photocontrol Receptacle A=Refractive Lens Panels CL=Clear Lens FL=Frosted Lens TL=Textured Lens S=Snap Latches for Tool-less Light Replacement J=Factory Installed Ladder Rest HSS=House Side Shield ⁸ HA=High Ambient ⁹ TC=Tall Cupola for Network Control Solutions ¹⁰ BC=Bird Cone ¹¹		BK=Black BZ=Bronze AP=Grey WH=White		TA1BK=Decorative Ladder Rest for Field Installation (Black) OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA/RA1016=NEMA Photocontrol - Multi-Tap OA1223=10kV Surge Module Replacement HS-LX-24=Field Installed LX House Side Shield for AF24 ⁸	

- NOTES:**
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
 - Standard 4000K CCT and nominal 70 CRI.
 - AF24-20 only available in 120V only.
 - Only available in universal voltage, not available with AF24-90, AF24-100.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Use dedicated IES files for 3000K and 2700K when performing layouts. These files are published on the Lexington product page on the website.
 - If "4" selected, dimming functionality not available, leads will be capped.
 - HSS not available with 5WQ or SL3 distribution.
 - HA not available with AF24-100 if paired with HSS option.
 - Use tall cupola to accommodate network control solutions requiring the 7-pin receptacle.
 - Bird cone cannot be ordered with lens panels.