

## DESCRIPTION

The Traditionaire AF series LED outdoor luminaire displays the old-fashioned charm of traditional area lighting, enhancing any setting with distinctive styling. As a decorative luminaire, the Traditionaire LED tastefully complements the architectural and environmental design of parks and roadways. The high-lumen downlight configuration uses Cooper Lighting Solutions' patented AccuLED Optics™ technology to deliver uniform and efficient illumination to pedestrian and roadway applications.

<b>Catalog #</b>		<b>Type</b>	
<b>Project</b>			
<b>Comments</b>		<b>Date</b>	
<b>Prepared by</b>			

## SPECIFICATION FEATURES

### Construction

Hinged (stainless steel hinge pins) die-cast aluminum housing and cover with cupola. 3G vibration tested to ensure strength of construction and longevity in application.

### Optics

Choice of three patented, high-efficiency AccuLED Optic™ technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optic technology, creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT. 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), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection and 10kV MOV as an optional alternate.

### Mounting

Self-aligning pole-top fitter for 3" O.D. pole tops or vertical tenons. Square headed 1-1/4" polymer coated mounting bolts with a lock nut.

### 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.



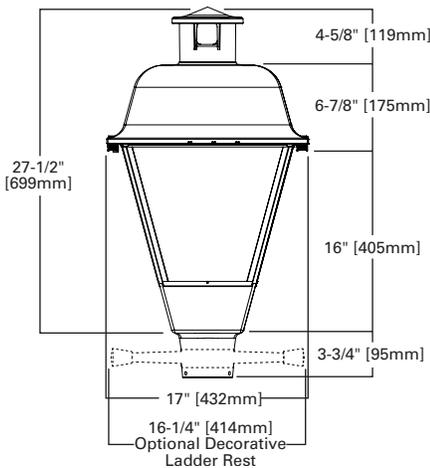
## UTLD TRADITIONAIRE LED DOWNLIGHT

**AF24**  
Solid State LED

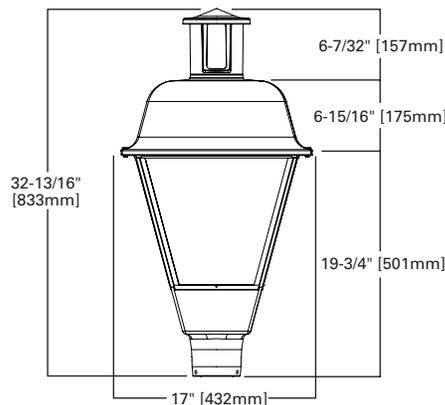
DECORATIVE POST TOP  
LUMINAIRE

## DIMENSIONS

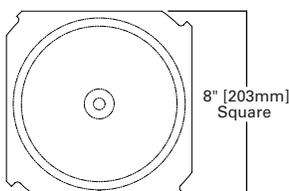
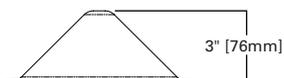
### UTLD



### UTLD - Tall Cupola



### Optional Bird Cone



### CERTIFICATION DATA

UL and cUL Wet Location Listed  
3G Vibration Rated  
IP66 Rated  
ISO 9001  
Dark Sky Approved (3000K CCT and warmer only)  
DesignLights Consortium® Qualified\*

### ENERGY DATA

Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz  
-40°C Minimum Temperature  
40°C Ambient Temperature Rating

### EPA

With panels: 2.3 (Sq. Ft.)  
Without panels: 1.4 (Sq. Ft.)

### SHIPPING DATA

Approximate Net Weight:  
22.8 lbs. (10.34 kgs.)

**POWER AND LUMENS (STANDARD CONFIGURATION - NO LENSES OR BIRD CONE)**

Light Engine *	AF24-20	AF24-30	AF24-40	AF24-50	AF24-60	AF24-70	AF24-80	AF24-90	AF24-100	
<b>Nominal Power (Watts)</b>	21	31	40	54	64	74	83	94	96	
<b>Wattage Label</b>	20	30	40	50	60	70	80	90	100	
<b>Current @ 120V (A)</b>	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80	
<b>Current @ 277V (A)</b>	--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35	
<b>Current @ 347V (A)</b>	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28	
<b>Current @ 480V (A)</b>	--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21	
<b>Optics</b>										
T2U	4000K	2,429	3,400	4,420	5,666	6,587	7,371	8,064	8,722	8,740
	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	2,150	3,010	3,912	5,016	5,831	6,524	7,139	7,720	7,737
	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
SL3	4000K	2,406	3,368	4,377	5,612	6,523	7,230	7,987	8,638	8,656
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	3000K	2,275	3,184	4,139	5,306	6,168	6,902	7,552	8,167	8,185
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
T3	4000K	2,410	3,373	4,384	5,621	6,534	7,312	8,000	8,652	8,670
	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	2,133	2,985	3,881	4,976	5,784	6,472	7,082	7,659	7,675
	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
T4W	4000K	2,413	3,377	4,390	5,628	6,542	7,321	8,010	8,663	8,681
	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	2,136	2,989	3,886	4,982	5,791	6,480	7,090	7,668	7,684
	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
5WQ	4000K	2,510	3,513	4,567	5,855	6,806	7,616	8,333	9,012	9,031
	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
	3000K	2,222	3,110	4,043	5,183	6,025	6,742	7,376	7,977	7,994
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2

NOTE: \* Photometric data is reported for lower hemisphere only.

**LUMEN MAINTENANCE**

Light Engine	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
AF24-20 to AF24-80	Up to 50°C	>95%	416,000
AF24-90 & AF24-100	Up to 40°C	>90%	205,000

**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

**ORDERING INFORMATION**

Sample Number: UTLD-AF24-30-D-U-T3-4N7-7030

Product Family <sup>1</sup>	Light Engine <sup>2</sup>	Wattage Bucket	Driver	Voltage	Distribution
UTLD=Traditionaire™ LED Downlight	AF24=24 LED Light Engine	20=20W <sup>3</sup> 30=30W 40=40W 50=50W 60=60W 70=70W 80=80W 90=90W 100=100W	D=Dimming (0-10V) 5LTD=DALI <sup>4</sup>	U=Universal (120-277V) 2=120V <sup>3</sup> 8=480V <sup>5,6</sup> 9=347V <sup>5,6</sup>	T2U=Type II Urban T3=Type III T4W=Type IV Wide 5WQ=Type V Square Wide SL3=Type III w/ Spill Control
Options (Add as Suffix)			Color	Accessories (Order Separately)	
[BLANK]=10kV UL 1449 Surge Protection Device <sup>7</sup> 10MSP=10kV MOV Surge Protection Device <sup>7</sup> 7027=70 CRI / 2700K CCT <sup>8</sup> 7030=70 CRI / 3000K CCT <sup>8</sup> 4=NEMA Photocontrol Receptacle <sup>9</sup> 4N7=NEMA 7-PIN Twistlock Photocontrol Receptacle HA=50C High Ambient Temperature <sup>10</sup> W=20' #10 Leads S=Snap Latches for Tool-less Light Replacement J=Factory Installed Ladder Rest A=Refractive Lens Panels <sup>11</sup> CL=Clear Lens Panel <sup>11</sup> FP=Frosted Lens Panel <sup>11</sup> TL=Textured Lens Panel <sup>11</sup> BC=Bird Cone <sup>11</sup> HSS=Factory Install UTLD House Side Shield for AF24 <sup>12</sup> TC=Tall Cupola <sup>14</sup>			[BLANK]=Black <sup>13</sup> AP=Grey BZ=Bronze 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 OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA1223=10kV Surge Module Replacement HS-UTLD-24=Field Installed UTLD House Side Shield for AF24 <sup>12</sup>	

- 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 available in universal voltage. Consult your lighting representative at Cooper Lighting Solutions if custom programming is required. Not available with AF24-90, AF24-100. Consult your lighting representative at Cooper Lighting Solutions if greater than AF-80 (83W) is needed.
  - 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).
  - Not available with 5LTD driver.
  - 10kV UL 1449 Surge Protection Device standard unless 10MSP option specified.
  - Use dedicated IES files for 2700K and 3000K when performing layouts. These files are published on the UTLD Traditionaire product page on the website.
  - If "4" selected, dimming functionality not available, dimming leads will be capped.
  - Not available with HSS or 5LTD driver.
  - Lens panel and birdcone cannot be ordered together.
  - HSS not available with 5WQ distribution.
  - Black finish standard unless other color option specified.
  - Use tall cupola to accommodate network control solutions requiring the 7-pin receptacle.



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Specifications and dimensions subject to change without notice.