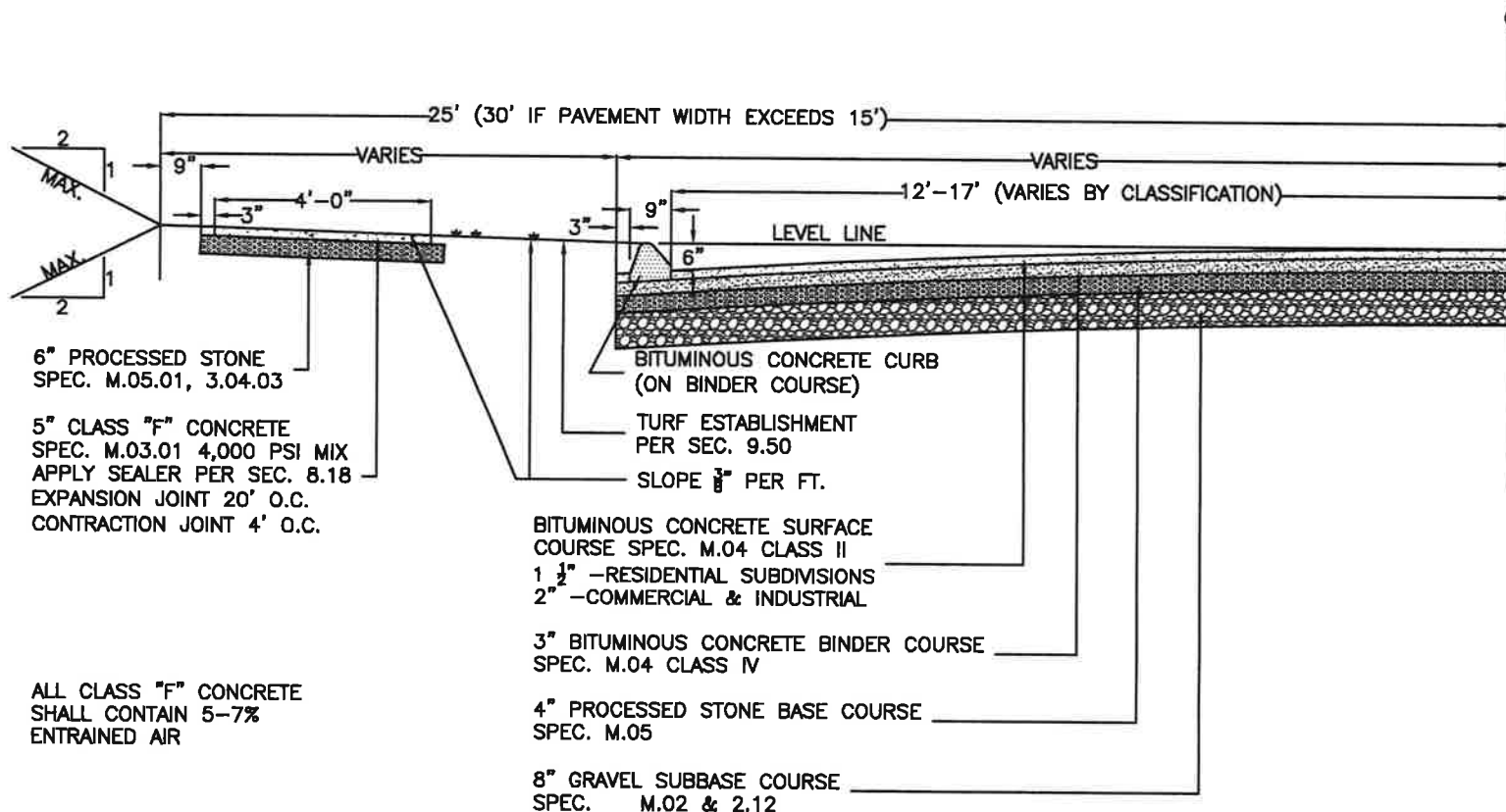


# Appendix A

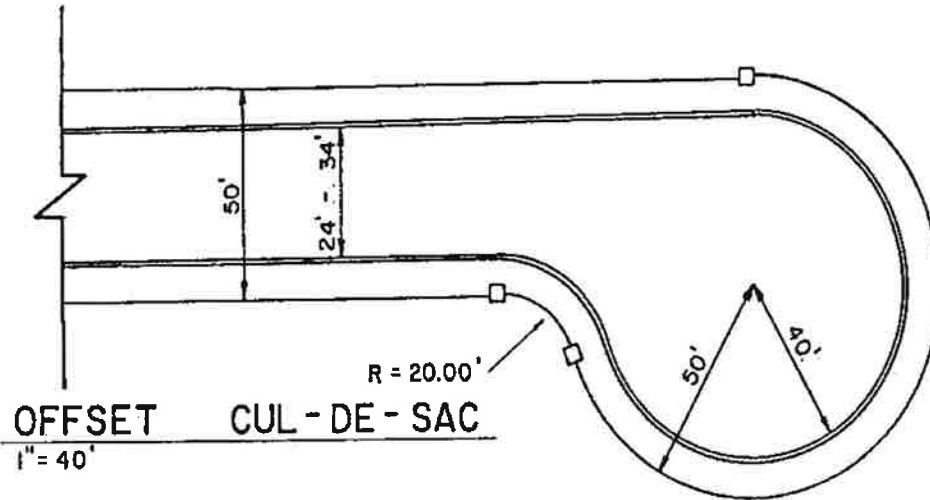


NOTE: AN INTERSECTION GRADING PLAN WITH  $\frac{1}{2}$  FOOT CONTOURS IS REQUIRED FOR ALL APPLICATIONS THAT PROPOSE A NEW INTERSECTION OR THE MODIFICATION OF AN EXISTING INTERSECTION.

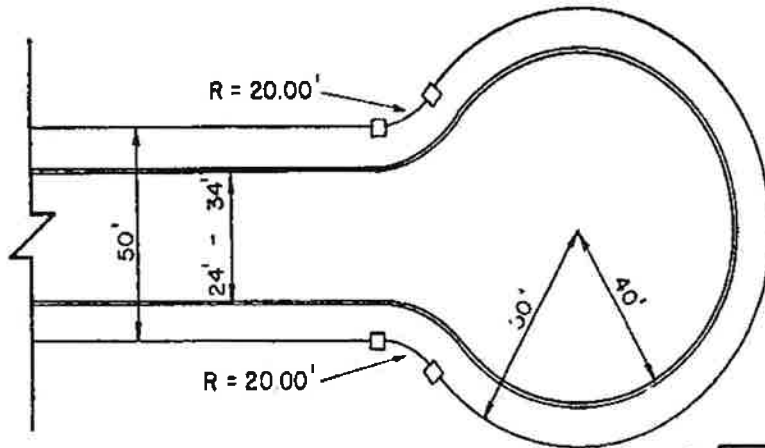
ALL SPECS FROM DOT FORM 817 ADOPTED 2016

TOWN OF SOUTHWINGTON			
STANDARD SECTION FOR CONSTRUCTION OF SUBDIVISION ROADWAYS			
MO. MARCH	YR. 2017	SCALE HORIZ. N.T.S. VERT. N/A	
DESIGNED BY DEN	DRAWN BY JAG	DATE 3/17/17	
APPROVED BY KPH			

EXHIBIT R



OFFSET CUL-DE-SAC  
1" = 40'



STANDARD CUL-DE-SAC  
1" = 40'

TOWN OF SOUTHLINGTON  
TYPICAL CUL-DE-SACS  
TOWN ENGINEER: ANTHONY J. TRANQUILLO DRAWN BY: J. B. S.  
AS APPROVED BY THE PLANNING & ZONING  
COMMISSION DATE: August 6, 1982

# Streetworks

**DESCRIPTION**

The Lexington 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 LightBAR™ 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 symmetric or asymmetric distributions with refractive lens panels. Clear lens panels also available. 4000K CCT (+/- 275K), minimum 70 CRI.

**Electrical**

LED drivers are potted and equipped with heat sinks for optimal performance and prolonged life. Standard drivers feature electronic universal voltage (120V-277V/50-60Hz), greater than 0.90 power factor, and operating temperature range from -30°C to +40°C. Includes surge protection for transient line surges up to 10kV. Standard three-position tunnel-type terminal block. System is rated for 90% lumen maintenance at 60,000 hours (compliant with IESNA TM-21).

**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**

Five-year warranty.



**LXF/LXT  
LEXINGTON LED**

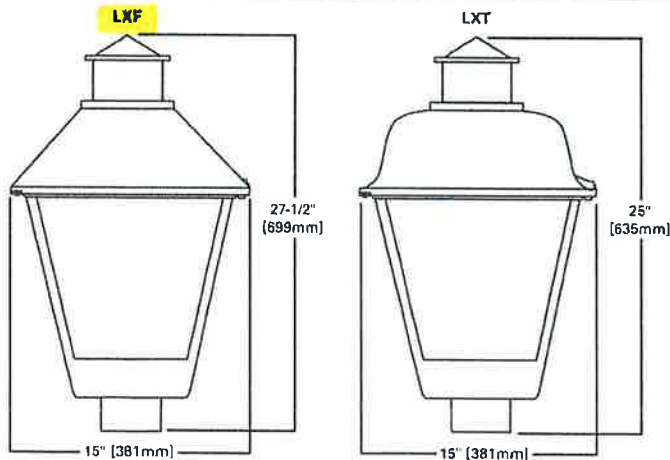
1 LightBAR=26W (Nominal)

2 LightBARS=52W (Nominal)

**OR EQUAL**

**LED  
DECORATIVE POST TOP  
LUMINAIRE**

**DIMENSIONS**



**OR EQUAL**

**CERTIFICATION DATA**

ULcUL Listed  
ISO 9001  
IP66 LightBARS  
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:  
25 lbs. (11 kgs.)

## POWER AND LUMENS

Number of LightBARs	E01	E02	F01	F02	
LightBAR Type	E Bars (21 LEDs)	E Bars (21 LEDs)	F Bars (7 LEDs)	F Bars (7 LEDs)	
Power (Watts)	25W	52W	26W	55W	
<b>Optics</b>					
SYM	Lumens	2,469	4,939	2,038	4,077
	BUG Rating	B1-U3-G2	B2-U4-G3	B1-U3-G2	B2-U4-G3
ASYM	Lumens	2,645	5,290	2,183	4,367
	BUG Rating	B2-U3-G2	B3-U3-G3	B1-U3-G1	B2-U3-G2

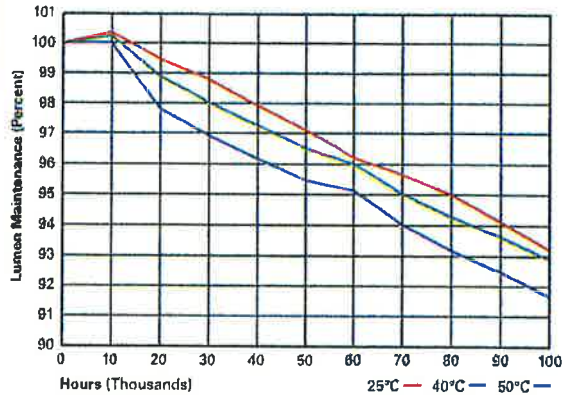
## LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.89
50°C	0.96

## LUMEN MAINTENANCE

Ambient Temperature	25,000 Hours*	50,000 Hours*	80,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
25°C	> 99%	> 97%	> 96%	> 93%	> 450,000
40°C	> 98%	> 97%	> 96%	> 92%	> 425,000
50°C	> 97%	> 96%	> 95%	> 91%	> 400,000

\* Per IESNA TM-21 data.



## ORDERING INFORMATION

Sample Number: LXF-E02-LED-E-U-SYM-4-BK

Product Family <sup>1</sup>	Number of LightBARs <sup>2,3</sup>	Source Type	Driver	Voltage	Distribution
LXF=Lexington LXT=Lexington w/Traditional Top	E01=(1) 21 LED LightBAR E02=(2) 21 LED LightBAR F01=(1) 7 LED LightBAR <sup>4</sup> F02=(2) 7 LED LightBAR <sup>4</sup>	LED=Solid State Light Emitting Diodes	E=Non-Dimming D=Dimming <sup>5</sup>	U=Universal (120-277V)	SYM=Symmetric ASYM=Asymmetric
Options (Add as Suffix)				Accessories (Order Separately)	
7030=70 CRI / 3000K CCT <sup>6</sup> 7050=70 CRI / 5000K CCT <sup>6</sup> 7060=70 CRI / 6000K CCT <sup>6</sup> 8030=80 CRI / 3000K CCT <sup>6</sup> 2L=Two Circuits <sup>7</sup> 4=NEMA Photocontrol Receptacle 4N7=NEMA 7-PIN Photocontrol Receptacle <sup>8</sup> CLP=Clear Lens Panels <sup>9</sup> T=3/4" Pendant Mount Provision S=Snap Latches for Tool-less Light Replacement J=Factory Installed Ladder Rest U=UL/CSA Listed HSS=Factory Installed House Side Shield <sup>10</sup> AP=Gray BK=Black BZ=Bronze WH=White				OA1222=10kV Surge Replacement Module	

## NOTES:

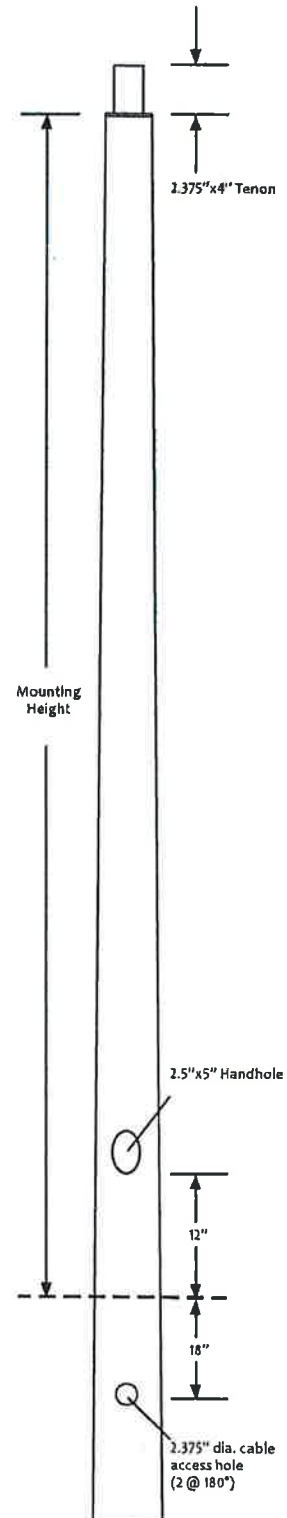
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- LED LightBAR powered by 350mA.
- Standard 4000K CCT and nominal 70 CRI.
- Consult factory for F-bar photometric data.
- Must specify 4N7 option.
- Consult factory for lead times and multiplier.
- Low-level output varies by bar count. Consult factory. Requires two LightBARs.
- Must specify dimming driver.
- Only available in symmetric optical distribution. Consult factory for photometric data.
- One per LightBAR. Will considerably reduce lumen output.

# POST TOP : Direct Burial

CMT Catalog Number	Nominal Mounting Height (ft.)	Shaft Length (ft.)	Weight of Pole (lb.)	Tip O.D. (in.)	Butt O.D. (in.)	Maximum EPA		
						80 MPH	100 MPH	120 MPH
<b>50# Vertical Load</b>								
TB13-B-50	10	13	24	3.00	5.80	6.0	4.0	3.3
TB16-B-50	13	16	38	3.00	4.55	6.0	4.3	3.3
TB20-B-50	16	20	45	3.00	7.27	6.0	3.5	3.3
TB24-B-50	20	24	67	3.00	8.18	6.0	3.5	3.3
<b>200# Vertical Load</b>								
TB24-D-200	20	24	88	4.41	9.59	8.5	6.0	6.0
TB30-D-200	25	30	106	4.41	10.80	7.5	5.0	5.0
TB35-D-200	30	35	147	4.41	11.97	8.0	4.5	4.5
TB40-D-200	35	40	170	4.41	12.93	7.5	4.5	4.5
TB46-F-200	40	46	226	5.12	15.04	9.0	5.0	5.0
TB50-F-200	44	50	259	5.12	15.75	8.6	4.3	4.3
<b>300# Vertical Load</b>								
TB35-F-300	30	35	160	5.12	12.68	10.5	6.3	6.3
TB40-F-300	35	40	201	5.12	13.64	10.5	6.3	6.3
TB46-F-300	40	46	250	5.12	15.04	10.5	6.0	6.0
TB50-F-300	44	50	303	5.12	15.75	10.5	5.2	5.2

OR EQUAL

For 140 MPH, see High Wind Speed section.



Don't see what you need? Call us. We can build it!

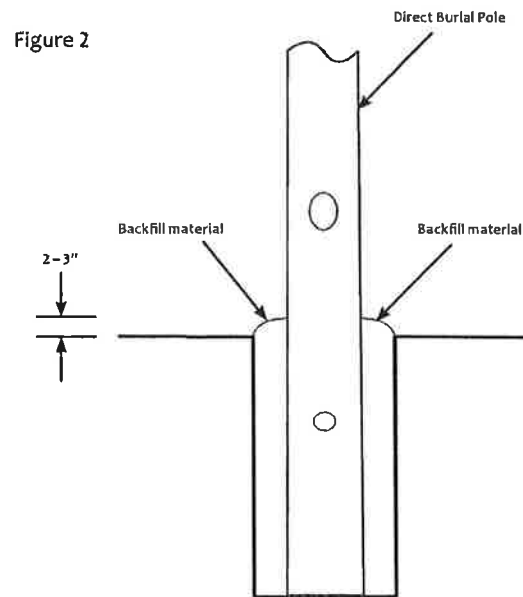
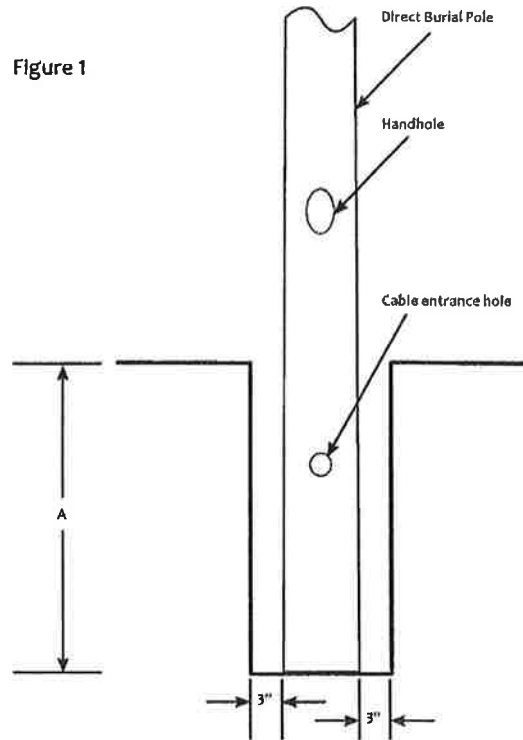
Maximum EPA is calculated using wind velocities shown with a 1.3 gust factor. Poles are available with other EPA specifications. Contact factory. Total weight of fixture(s) and bracket(s) should not exceed vertical load shown above. Standard features are as shown on drawing. Available optional features are listed in the order grid on Page 2, and in the Accessories pages. Slip-fit tenon to be used only with 50# vertical load series. Tenon-mounted side arm brackets should be used only in symmetrical double, triple, or quad arrangements. Available bullhorn brackets are listed in the Accessories section.

# Direct Burial Pole Installation Guide

## Suggested Installation Procedure for Direct Burial Poles

1. Auger a hole that is a minimum of 6 inches wider than the butt of the pole. The suggested depth (dimension "A") is:

Up to 18 ft. mounting height:	3 ft.
18.1 to 25 ft.	4 ft.
25.1 to 40 ft.	5 ft.
40.1 to 50 ft.	6 ft.
2. Remove any protective wrapping from the pole and place the butt end of the pole in the center of the hole (Figure 1). As the pole is lowered into the hole, feed the underground wiring through the cable entrance hole(s) toward the handhole.
3. Hold the pole upright while backfilling the hole according to soil conditions as follows:
  - a. Poor soil: If the area is sandy or often retains water, a crushed aggregate material or concrete may be needed for backfill.
  - b. Good soil: If the soil is firm and does not retain water, the soil that was removed while augering the hole can be used as backfill.
4. Place approximately 4 to 6 inches of backfill into the hole. Plumb the pole from two positions, 90 degrees apart. To plumb the pole, hold a plumb-bob at a suitable distance from the pole and align it with the plumb-bob. Once the pole is plumbed, tamp the backfill thoroughly. Continue supporting the pole.
5. Add another 4 to 6 inches of backfill and tamp thoroughly. Re-plumb the pole two to three times before the backfill level reaches the ground line.
6. Place an additional 2 to 3 inches of backfill above the ground line (Figure 2) and tamp thoroughly.
7. Connect all wiring at the handhole.



**Note:** This information is intended only as guidance.

CMT does not assume any responsibility for pole installation.