



## LED Area Light/Shoe Box Series

Wattages: 60W, 100W, 150W, 200W, 300W

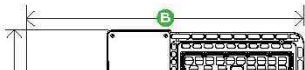









EPA DETAILS



	WSD-SB06W27 / WSD-SB10W27	GROSS WEIGHT	12 lbs	BOX DIMENSION	22.44" x 13.78" x 5.91"	
CONFIGURATION						
	1	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
EPA	0.64 ft²	1.28 ft²	1.03 ft²	1.66 ft²	1.55 ft²	2.06 ft²
NET WEIGHT	9.9 lbs	19.8 lbs	19.8 lbs	29.7 lbs	29.7 lbs	39.6 lbs

A-11.5" x B-23.92" x C-3.35"

		WSD-SB15W27 / WSD-SB20W27		GROSS WEIGHT	18 lbs	BOX DIMENSION	22.44" x 13.78" x 5.91"
CONFIGURATION							
EPA	0.65 ft <sup>2</sup>	1.30 ft <sup>2</sup>	1.04 ft <sup>2</sup>	1.69 ft <sup>2</sup>	1.56 ft <sup>2</sup>	2.08 ft <sup>2</sup>	
NET WEIGHT	16.6 lbs	33.2 lbs	33.2 lbs	49.8 lbs	49.8 lbs	66.4 lbs	

	WSD-SB30W27		GROSS WEIGHT		27 lbs		BOX DIMENSION		23.62" x 18.5" x 6.3"	
	CONFIGURATION									
	1		2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°			
	EPA	0.68 ft²	1.36 ft²	1.09 ft²	1.77 ft²	1.64 ft²	2.16 ft²			
	NET WEIGHT	25.4 lbs	50.8 lbs	50.8 lbs	76.2 lbs	76.2 lbs	101.6 lbs			

### ELECTRICAL LOAD

WATTAGE	120V	208V	240V	277V	347V	480V
WSD-SB06W27	0.5 Amp	0.29 Amp	0.25 Amp	0.22 Amp	0.17 Amp	0.13 Amp
WSD-SB10W27	0.83 Amp	0.48 Amp	0.42 Amp	0.36 Amp	0.28 Amp	0.21 Amp
WSD-SB15W27	1.25 Amp	0.72 Amp	0.62 Amp	0.54 Amp	0.43 Amp	0.31 Amp
WSD-SB20W27	1.67 Amp	0.96 Amp	0.83 Amp	0.72 Amp	0.58 Amp	0.42 Amp
WSD-SB30W27	2.5 Amp	1.44 Amp	1.25 Amp	1.08 Amp	0.86 Amp	0.63 Amp

Address: 1250 Watley Way, Suite 100, McKinney, TX 75069  
Email: leo.zhu@wisdom-sol.com • Tel: 469.857.5693 / 214.940.9558

www.wsdlcd.com

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Wattages: 60W, 100W, 150W, 200W, 300W

DIMENSION	WSD-SB06W27 / WSD-SB10W27	WSD-SB15W27 / WSD-SB20W27	WSD-SB30W27
A	11.15"	11.15"	15.85"
B	23.92"	23.4"	25.35"
C	3.35"	3.35"	3.35"

### MOUNTING OPTIONS (SOLD SEPARATELY)

WSD-NEWSBSP2-D Splitter Mount-Ar optional cast aluminum main arm adapter secure future head to normal 2"x3/8" O.D. pipe steel horizontal steel tenon arm.	WSD-NEWSBARM2-D Arm Mount 4" and 5" Square and Round poles. Standard versatile mounting arm is simple to install and can be used with existing poles for retro installations.	WSD-SFARM2-D SFARM2 Mount-Ar optional cast aluminum main arm adapter secure future head to normal 2"x3/8" O.D. pipe steel horizontal steel tenon arm.	WSD-SBT-D Easy to install for direct wall mounting with 1/2" conduit wiring.	WSD-SADP-BAR-D Square tube light bar installation, with Arm installation of lamps.	WSD-ARM-BAR-D Square tube light bar installation, with Arm installation of lamps.
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### ORDERING INFORMATION

EXAMPLE:

WSD-SB30W27-50K-Z[D, W, B, SJ-TN [T2, T3, T4, T5]-U[S, A, Y]-Y[BLANK, PJ]-# [BLANK, M]

WSD	SB	15W	27	40K	D	T3	T	P	RC
COMPANY	PRODUCT	WATTAGE	VOLTAGE	CCT	FINISH	DISTRIBUTION	MOUNTING	CONTROL 1	CONTROL 2
WSD LED INC	SB (Shoebox)	06W - (50W) 10W - (100W) 15W - (150W) 20W - (200W) 30W - (300W)	27 AC120-277V 48 (AC277-480V)	40K - (4000K) 50K - (5000K)	D - (Dark Bronze) W - (White) B - (Black) S - (Silver)	T2 - (Type II) T3 - (Type III) T4 - (Type IV) T5 - (Type V)	S - (Splitter) A - (Arm) T - (Transition)	P - (Photocell)	M - (Motion Sensor) RC - (Remote Control)

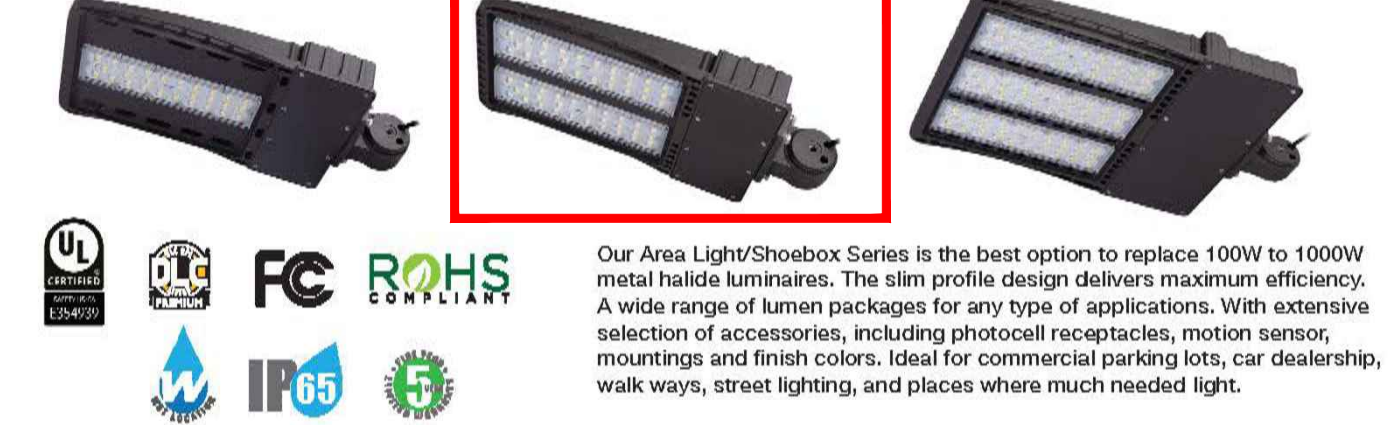
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### FEATURES

- Lumileds LED, high luminous efficiency and long working life.
- High efficiency LED Driver, the wide range input voltage AC120-277V/AC 277-480V.
- Die-cast aluminum cooling design, high quality and better cooling for LED Tj < 85°C.
- Excellent optics design, greatly improve the light utilization and evenness.
- Motion sensor control available (Optional)

### CONTROLS (SOLD SEPARATELY)



	60W	100W	150W	200W	300W
WATTAGE	60W	100W	150W	200W	300W
LUMEN	8700 lm	13000 lm	21000 lm	27000 lm	42192 lm
EFFICACY	145 lm/W	130 lm/W	140 lm/W	135 lm/W	140 lm/W
CCT	4000K, 5000K				
GR	70				
INPUT VOLTAGE	AC120-277V / AC277-480V				
DISTRIBUTION	Type II, Type III, Type IV, Type V				
POWER FACTOR	0.95				
DRIVER EFFICACY	90%				
DIMMING	0-10Vdc				
LIFE SPAN	over 50,000 hrs				
WORKING TEMPERATURE	-22°F ~ 113°F				
STORAGE TEMPERATURE	-40°F ~ 176°F				
OUTDOOR RATING	Wet location / IP65				
CABLE	8 core, 18AWG 0.5m				
WARRANTY	5 year limited				

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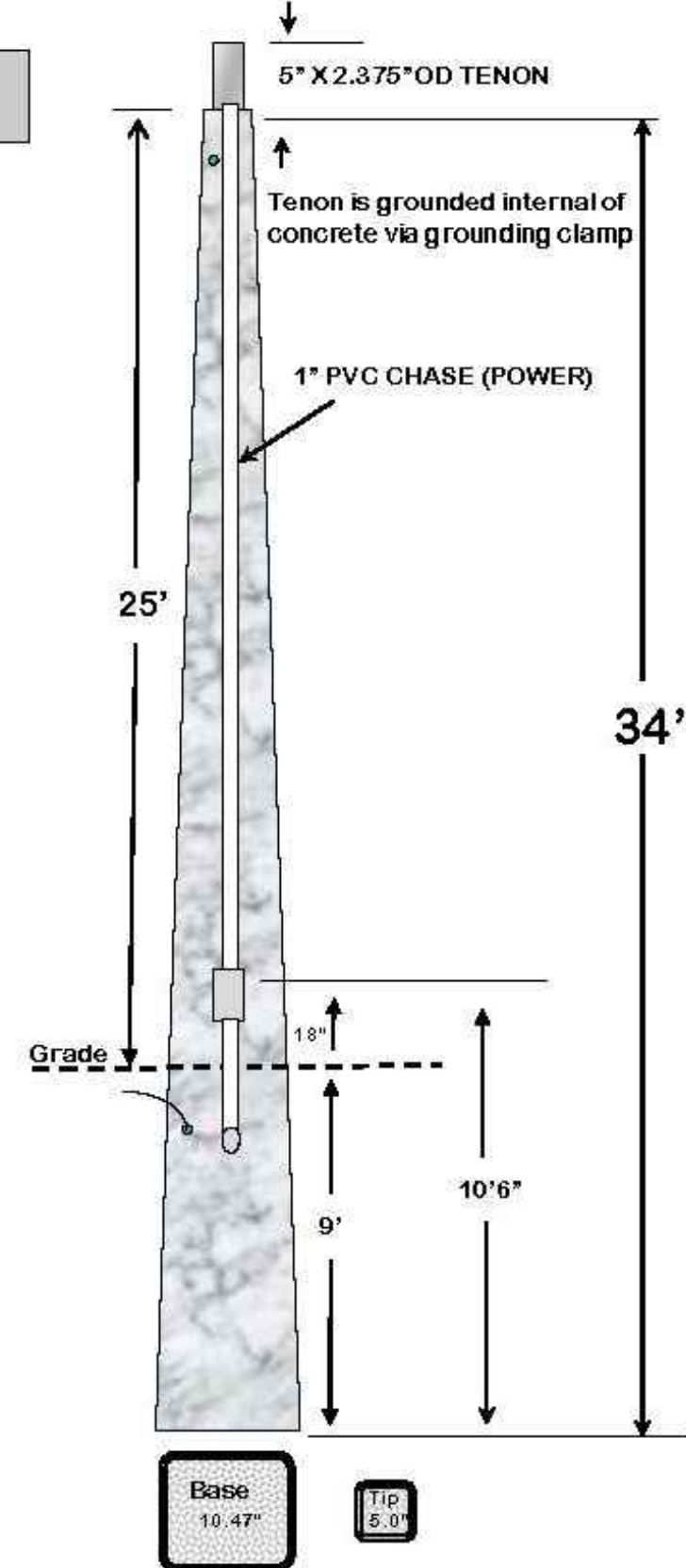
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## PROJECT: El Car Wash

### Prestressed Concrete Pole

- Pole Weight= 2,180lbs
- Wind speed= 170mph Vult
- Exposure "C"
- Risk Category II
- Gust Factor= 1.2
- 8th Edition 2023 FBC 1620 HVHZ, 1609, 1806
- ASCE 7-22
- Min. Brk. Strength= 1,800#
- Concrete= 7,500psi @ 28 days
- Ord. Wires= #6 str. copper
- Strand= 1/2" @ 70% Ultimate
- Tenon= 2.375 x 5"

This pole embedded 9' in to soils with an allowable passive pressure of 300pcf is structurally adequate to resist the local wind speeds in Broward Co. with The 3.0sqft epa attached inclusive of Lights & Cameras



4  
A004 TYPICAL LIGHT POLE FIXTURE "A"  
SCALENTS

## LED Mini Wall Pack Series

Wattages: 10W, 15W, 20W

DIMENSION	WSD-WP-01W27 / WSD-WP-015W27	WSD-WP-02W27
WATTAGE	10W - (10W) 15W - (15W) 20W - (20W)	27
NT. WEIGHT	1.26 lbs	3.3 lbs
BOX DIM.	21.46" x 9.06" x 10.63" (12 pcs)	18.5" x 9.8" x 9.44" (6 pcs)

### ORDERING INFORMATION

EXAMPLE:

WSD-WP-01W27-50K-D-P

WSD	WP	01W	27	40K	D	P
COMPANY	PRODUCT	WATTAGE	VOLTAGE	CCT	FINISH	CONTROL
WSD LED INC	WP (Mini Wall Pack)	01W - (10W) 015W - (15W) 02W - (20W)	27 (AC120-277V)	40K - (4000K) 50K - (5000K)	D - (Dark Bronze) W - (White) B - (Black) S - (Silver)	P - (Photocell)

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### FEATURES

- Lumileds LED, high luminous efficiency and long working life.
- High efficiency LED Driver, the wide range input voltage AC120-277V/AC.
- Excellent optics design, greatly improve the light utilization and evenness.
- Motion sensor control available (Optional)
- 1-10V Dimming.

	WSD-WP01W27-40K	WSD-WP015W27-40K	WSD-WP02W27-40K
WATTAGE	10W	15W	20W
LUMEN	1450 lm	2100 lm	2420 lm
EFFICACY	145 lm/W	140 lm/W	121 lm/W
CCT	4000K, 5000K		
GR	80		
INPUT VOLTAGE	120-277V		
POWER FACTOR	0.95		
DRIVER EFFICACY	88%		
DIMMING	1-10V Dimming		
LIGHT ANGLE	108°		
LIFE SPAN	75,000 hrs		
WORKING TEMPERATURE	-22°F ~ 113°F		
STORAGE TEMPERATURE	-40°F ~ 176°F		
OUTDOOR RATING	IP65		
CABLE	Input Connect, No cable		
WARRANTY	5 year limited		

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Name	El Car Wash	Pole Design	Select Structural
POLE DIMENSIONS		WIND LOADING	REINFORCING
Total Length	34.0 ft	Wind Speed (V)	170
Embedment	9.0 ft	Exposure Category	C
Projection	25.0 ft	Exposure Factor (K <sub>d</sub> )	0.82
Tip Dimension	5 in	Exposure Factor (K <sub>d</sub> ) EPA	0.95
Taper Factor	0.161 in/ft	Directionality (K <sub>d</sub> )	0.9
Dimension at Ground	9.03 in	Gust Factor (G)	1.2
Butt Dimension	10.47 in	Shape Factor (C <sub>s</sub> )	2
MANDREL		CONCRETE	
Mandrel Dia Tip	1.75 in	Concrete f <sub>c</sub>	6500 psi
Start from Tip	0.25 ft	Load Factor	1.0
Mandrel Taper	0.127 in/ft	Strength Red φ	0.9
Mandrel Dia Butt	6.04 in	β1	0.65
ATTACHED EPA		Applied Force	0 k ult
Fixture EPA	3.00 sq ft		
Mounting Height	25.0 ft		

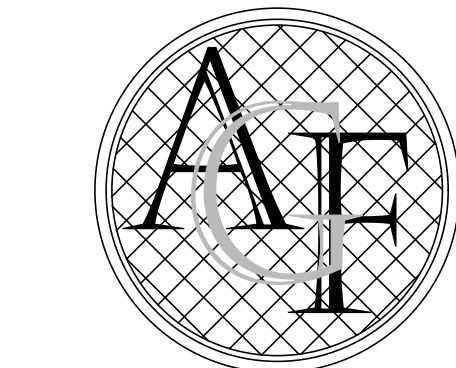
Wind Pressure	q <sub>s</sub> = 0.00256 x K <sub>z</sub> x K <sub>d</sub> x V <sup>2</sup>	54.40 psf ult	q <sub>EPAs</sub> = 62.94 psf ult
p <sub>s</sub> = q <sub>s</sub> x G x C <sub>f</sub>		130.5 psf ult	p <sub>EPAs</sub> = q <sub>s</sub> x G
Moment on Pole			
A <sub>c</sub>	16 ft <sup>2</sup>		
Ad = (tipxproj <sup>2</sup> )/2+(grd-tip)(2xproj <sup>2</sup> )/3	165 ft <sup>3</sup>		
M <sub>pole</sub> = p x Ad	21.6 ft-k		
M <sub>EPAs</sub> = p <sub>EPAs</sub> x EPA x mounting height	5.7 ft-k		
M <sub>total</sub> = M <sub>pole</sub> + M <sub>EPAs</sub>	27.2 ft-k		

Moment Capacity of Pole			
No. Stressed Strands= 4		No. Dormant= 4	
A <sub>ps</sub> = 0.306 in <sup>2</sup>		A <sub>s</sub> = 0.306 in <sup>2</sup>	
d <sub>ps</sub> = 7.03 in		d = 6.07 in	
p <sub>s</sub> = 0.004826		p = 0.0056	
ω <sub>ps</sub> = 0.183169		ω = 0.2322	
f <sub>ps</sub> = 247 ksi		f <sub>ps</sub> devel= 316 ksi	
a = 1.51 in		Design f <sub>ps</sub> = 247 ksi	
ΦM <sub>n</sub> = 53 ft-k			

Pole Embedment			
P = (0.6)P <sub>total</sub>	1280 lb		
M = (0.6)M <sub>total</sub>	16335 lb-ft		
Soil passive pressure	q = 300 psf / ft		
Embedment depth	d = 9.00 ft		
Embedment size (average)	b = 13.8 in		
S <sub>1</sub> = (d)(q)/3	900 psf		
A = (2.34 P)/(S <sub>1</sub> b)	2.89		
d = (A/2)(1 + [1 + (4.36 h/A)] <sup>1/2</sup> )	7.96 ft		

25' Projection with 9' Min Embedment

4  
A004 TYPICAL LIGHT POLE AND CALCULATIONS  
SCALENTS



FANJUL & ASSOCIATES, LLC  
ARCHITECTURE, PLANNING & INTERIOR DESIGN

AA26000725

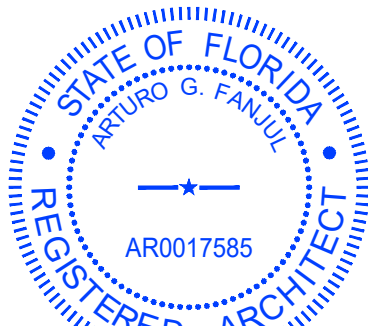
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"A BETTER LIFE THROUGH DESIGN"



ARTURO G. FANJUL AR0017585  
STATE OF FLORIDA REGISTERED ARCHITECT

This item has been electronically signed and sealed by:

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### DESIGN REVIEW



WEST POMANO

2960 W SAMPLE ROAD  
POMPANO BEACH, FL 33069  
ID:48422107031/32/32

### SITE LIGHT POLES

REVISION	NO.

DATE: 9/17/2025

SCALE:

DRAWN: AGF

CHECKED: AGF

JOB NO. 24-0704

PERMIT NO.

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A004

NEW SHEET