

# Tawas Series



OUTDOOR LIGHTING SPECIALIST SINCE 1972

320 Clark Dr. | El Paso, TX 79951

Phone: (915) 779-1405

Toll Free: (800)648-9013

Fax: (915)779-3618

Toll Free: (888)779-3065

email: [info@nilandco.com](mailto:info@nilandco.com)

[www.nilandco.com](http://www.nilandco.com)

# “...standing above the rest...”



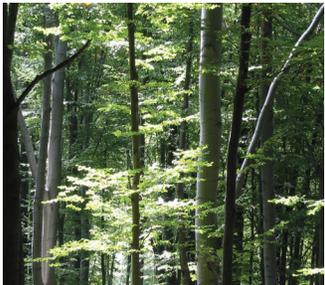
## ENDURANCE

We fabricate all our products to have a life span as long as the building or space it enlivens. Our bases are made with cast iron as our poles use formed steel to perform at maximum heights. All internal parts and fasteners are made of aluminum or stainless steel. Reflector enclosures are kept dust free and dry with the use of silicone gaskets to prevent light deterioration from contaminants.



## DARK SKY

Our horizontal hydro-formed reflector is designed to enhance the luminaire in creating full cutoff light distribution. No light is emitted above 90 degrees horizontal. Less upward light plus less wasted light equals improved energy efficiency.

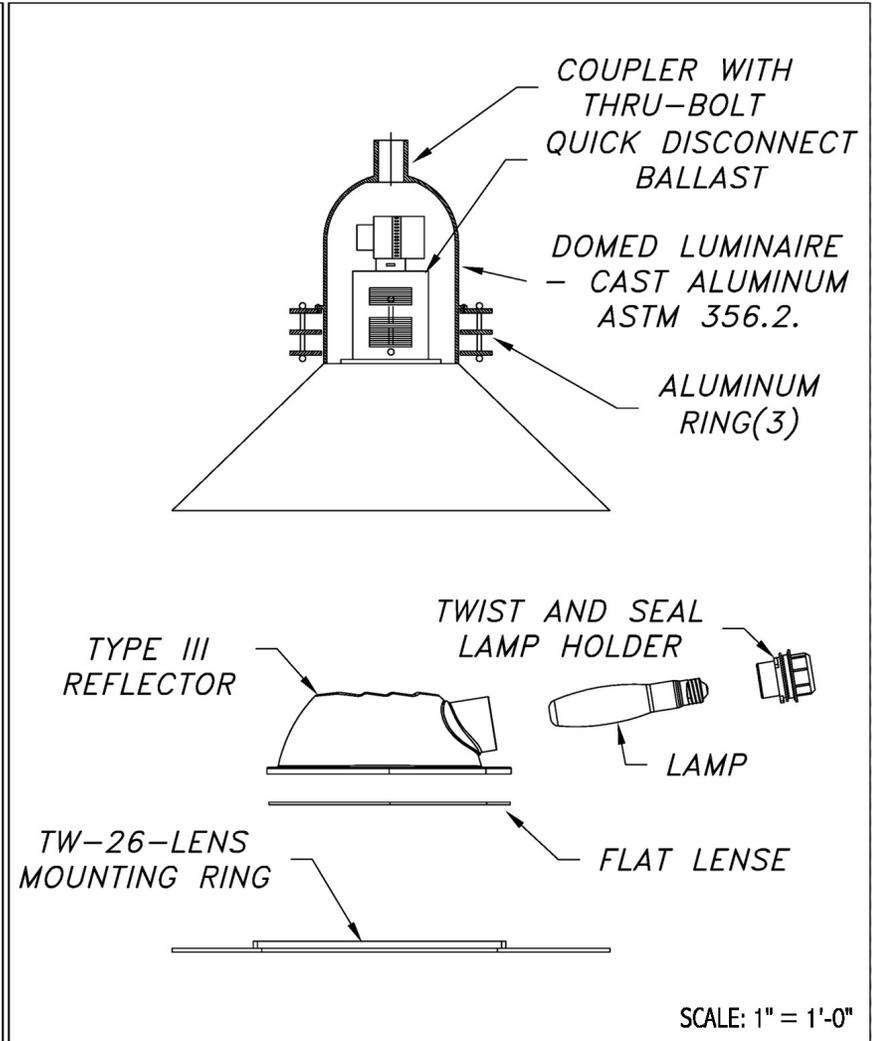
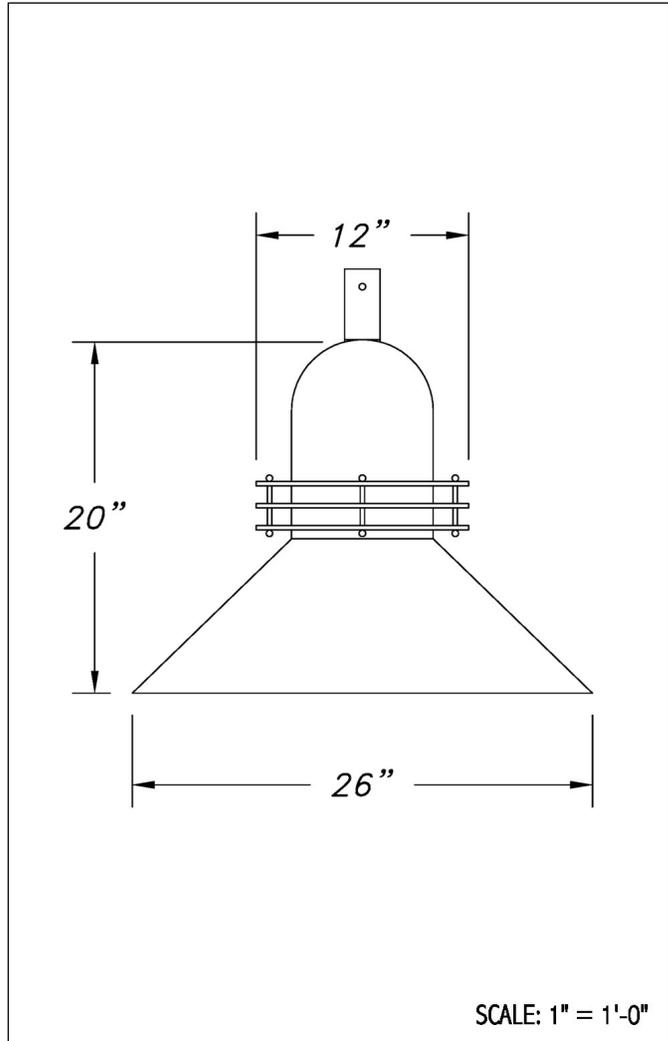


## DURABILITY

Our state-of-the-art gas-fired infrared (IR) convection oven allows us to powder coat parts with increased speed and energy efficiency. Convection heating acts as a supplement to the IR elements, transforming heat accurately and uniformly along and across your parts. Enhancing a long lasting finish that can't be beat by convectional liquid lines. Our cutting edge finishing system is certified for AIA 2604 applications for architectural grade finishes. Gloss retention and UV are extended up to 10 years with our patent pending process.

# VILLAND

**luminaire information**



**SPECIFICATIONS**

HOUSING

The post top shall be core cast aluminum. Aluminum shall be certified as pure #356 alloy, free of any porosity, foreign materials or cosmetic fillers. Castings shall be uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be 3/16". Electrical components are mounted to the fitter and ballast canister. The ballast canister shall be mounted in the post top with three stainless steel screws. The optional refractor shall be molded of borosilicate glass or an upgraded globe with external refractor designed for either a type III or type V light distribution pattern.

ELECTRICAL

All electrical components and materials shall be UL-recognized and wired by a certified UL technician. All Niland ballasts are high power factor rated for 30°C/-20°F starting. Medium and Mogul base sockets are 5KV rated. The electrical assembly is prewired with quick disconnects for servicing. Fixture shall be UL certified for wet locations.

MOUNTING

Fixture shall be mounted to tenon with stainless steel allen head set screws (3 @ 120°)

RELAMPING

The fixture is removed by loosening 4 stainless steel screws around globe.

FINISH

Fixture finish shall consist of degreasing, phosphate acid etching with 140°+ deionized water, rinsed, oven dry off and top coated with a thermoset TGIC super polyester powder coat finish designed not to chalk or fade for many years. All Niland Company powders must pass a minimum 3000-hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture shall be UL-listed for wet location use, and all HID listings.

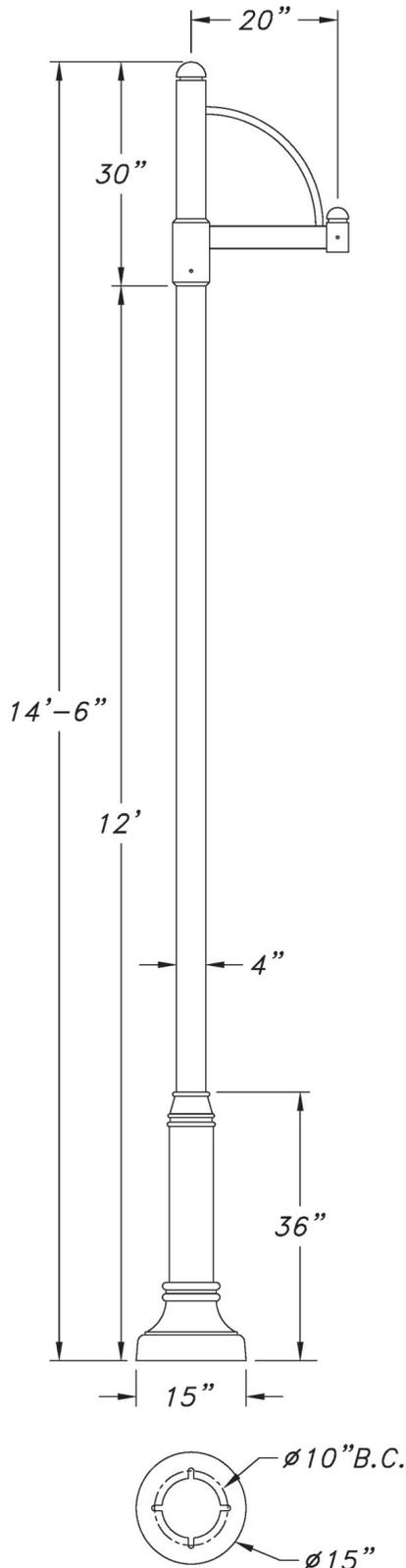
WARRANTY

Fixture shall be warranted to be free of defects for five years. Ballast components shall carry the ballast manufacturers limited warranty of two years.

PHOTOMETRICS

Complete photometric data for all fixtures is available in IES-formatted 3.5 disks. A certified independent laboratory performs all testing. Call the Niland Company directly for more information.

## pole information



### CATALOG NAME: TW-15-S4-12-LP-1

#### CSI POLE SPECIFICATION

##### POST

Post shall be tapered fluted steel with a 3" x 3" tenon for crossarm mounting. The post shall have a cast aluminum wrap around base with an access door for wiring and anchorage.

##### ANCHORAGE DETAIL

Post base requires (4)  $\emptyset 1" \times 36"$  hot dip galvanized L-type anchor bolts with 3" minimum projection each.

#### FINISHES

##### Five Year Powder Coating Warranty

Niland Company factory-applied powder coatings are warranted against peeling, excessive fading and cracking under normal climatic exposure for a period of five years from date of shipment. Damage to finish coating caused by abuse or mishandling during installation is not covered by this warranty. This warranty is limited to the repair or replacement of the material involved and does not include reimbursement of consequential expenses such as installation or removal of equipment or transportation costs.

##### I. STANDARD FINISH

Satin aluminum achieved by rotary sanding, blasting and chemical etching.

##### II. THERMOSET POWDER PAINT FINISH

Pretreatment shall consist of degreasing phosphate acid-etching with 140° and de-ionizing water, rinsed and oven dried.

##### FINISH COAT

Thermoset TGIC super polyester powder coat finish electrostatically applied, oven cured and bonded at approximately 420° F to a minimum dry film thickness of 1.6 mils. All Niland powder must pass a minimum 3000-hour salt-spray test for corrosion resistance. The National Association of Architectural Metal Manufacturers, Metal Finishes Manual rates the outdoor life of these powders at 15-plus years.

##### III. ELECTRICAL

All electrical components and materials shall be UL-recognized and wired by a certified UL technician. All Niland ballasts are high power factor rated for 30°C/-20°F starting. Medium and Mogul base sockets are 5KV rated. The electrical assembly is prewired with quick disconnects for servicing. Fixture shall be UL certified for wet locations and carry all HID listings required. Ballast components shall carry the ballast manufacturers limited warranty of two years. QL induction ballasts and lamps are optional.

#### WARRANTY

Niland Company warrants to repair or replace, at our option, any equipment that fails due to defects in material or workmanship within one year from date of shipment. This warranty does not include failures as a result of improper installation, mishandling or misapplication. This guarantee is limited to repair or replacement only and does not include reimbursement for expense of installation, removal of equipment, transportation or any other expenses that may be incurred. Authorization must be obtained from Niland Company in El Paso, Texas before any material is returned.

**ballast/lamp**

Model	Description
70HPS	70 watt high pressure sodium; use a medium base, clear ED-17 lamp.
100HPS	100 watt high pressure sodium; use a medium base, clear ED-17 lamp.
150HPS	150 watt high pressure sodium; use a medium base, clear ED-17 lamp.
50MH	50 watt metal halide; use a medium base, clear ED-17 lamp.
70MH	70 watt metal halide; use medium base, clear ED-17 lamp.
70MHT6	70 watt metal halide; use a G12 base, T-6 ceramic MH lamp.
100MH	100 watt metal halide; use medium base, clear ED-17 lamp.
150MH	150 watt metal halide; use medium base, clear ED-17 lamp.
150MHT6	150 watt metal halide; use G12 base, T-6 ceramic MH lamp.
175MH	175 watt metal halide; use medium base, clear ED-17 lamp.
CF	Compact Flourescent, electronic ballast; Use 4-pin 26,32 or 42 watt lamp.

Lamps(bulbs) not included.

**QL Induction Lamp**

**100,000 HOURS AVERAGE LIFE**

Model	Description
QL55W	QL Induction lamp with 55 watts; mogul base.
QL85W	QL Induction lamp with 85 watts; mogul base.

**voltage**

120 / 208 / 240 / 277 / 347\* / 480\*

\*Not available for QL Lamp.

Multitap ballast also available.  
Please specify voltage upon ordering.

**55 and 85 Watt Systmes Offering Electrodeless Technology with an Amazing 100,000 Hours Rated Average Life!!**

**Ultra-Long Life**

30 years rated average life  
virtually maintenance free

**Crisp White Light**

80+ CRI. Choice of color temperature

**No Color Shift**

**High Reliability**

Instant Hot and Cold (Re)Start

**Operated in Hot and Cold Environments**

Amalgam control

**Low EMI**

Complies with FCC. Non-Consumer Limits

**High Lumen Output**

Up to 12,000 lumens. Traditional lamp design with white light. 12,000 lumens looks like 20,000 lumens, saving you money!



**distribution options**



**Horizontal Reflector (HYD-HOR)**

Hydro-formed type III reflector shield. Full cut-off optics with Twist 'n' Seal mogul. Dark Sky Compliant with fully sealed reflector housing.



**Louwer Reflector (LOUVER)**

Spun aluminum with mirror finish. Assists in reflecting light downward.



**Borosilicate Refractor (BOR)**

Glass with high resistance to intense amounts of heat for long periods of time. Type III or V light distribution.

## finish options



Textured  
Forest Green (TG)



Textured  
Playground Green (TP)



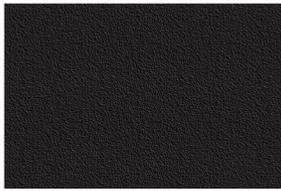
Textured  
El Paso Green (TE)



Gloss  
Green (GG)



Gloss  
Black Green (BG)



Textured  
Black (TB)



Mineral  
Bronze (MR)



Hand Brushed  
Verdi Gris (VG)



Gloss  
Black (GB)

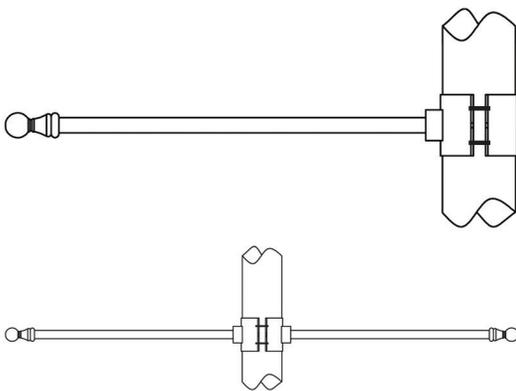


Gloss  
Walnut (GW)

All finishes above are standard and offered at no extra charge.

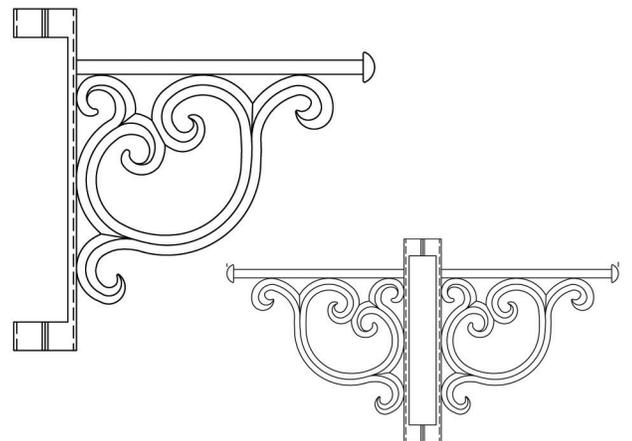
As for custom colors: please provide RAL number or a sample chip.

## accessories



### Banner Arm (BAN)

All banner arms fabricated with 24 inch extruded aluminum shaft at 1 inch diameter. Clamped around diameter of 4 inch or 5 inch pole. Double banner arms also available.



### Planter Arm (PA)

All planter arms fabricated with aluminum at 28 inch height and 24 inch length. Clamped around diameter of 4 inch or 5 inch pole. Double planter arms also available.

scaled view

25

20

18

16

14

6

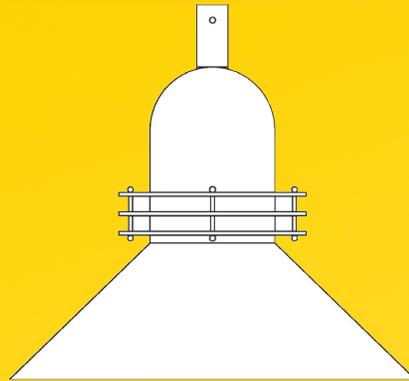


# TAWAS SERIES

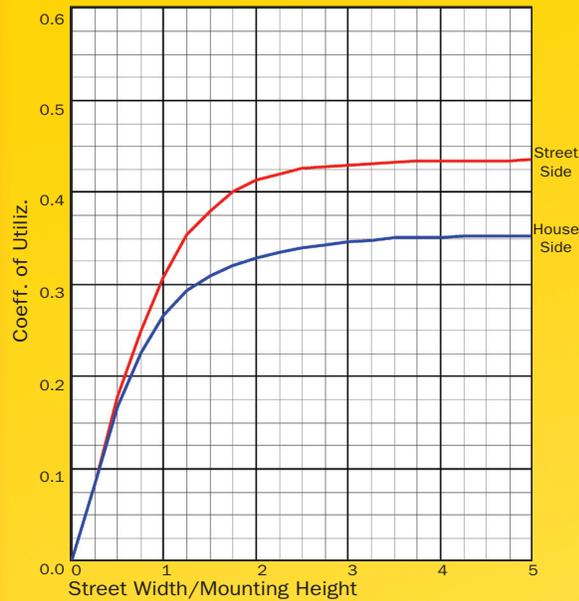
## TW-26-FLAT: 175MH

### CHARACTERISTICS

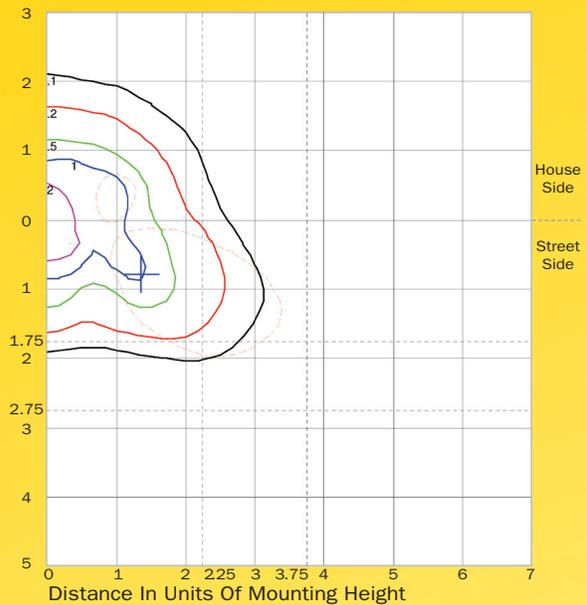
IES Classification	Type III
Longitudinal Classification	Short
Cutoff Classification	Full Cutoff
Total Rated Lamp Lumens	14000
Maximum Candela	6329.3
Maximum Candela Angle	60H 57.5V
Maximum Candela at 90 Degrees Vertical	0 (0.00% Lamp Lms)
Maximum Candela at 80 Degrees Vertical	776.59 (5.55% Lamp Lms)
Downward total Efficiency	78.9%



### COEFFICIENTS OF UTILIZATION



### ISOFOOTCANDLE LINE OF HORIZONTAL ILLUMINANCE



### FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	6102.8	43.6
Downward House Side	4945.6	35.3
Downward Total	11048.4	78.9
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
<b>Total Flux</b>	<b>11048.4</b>	<b>78.9</b>

Values Based On 30 Foot Mounting Height

1/2 Maximum Candela Trace Shown  
As Dashed Curve

(+) = Maximum Candela Point



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