

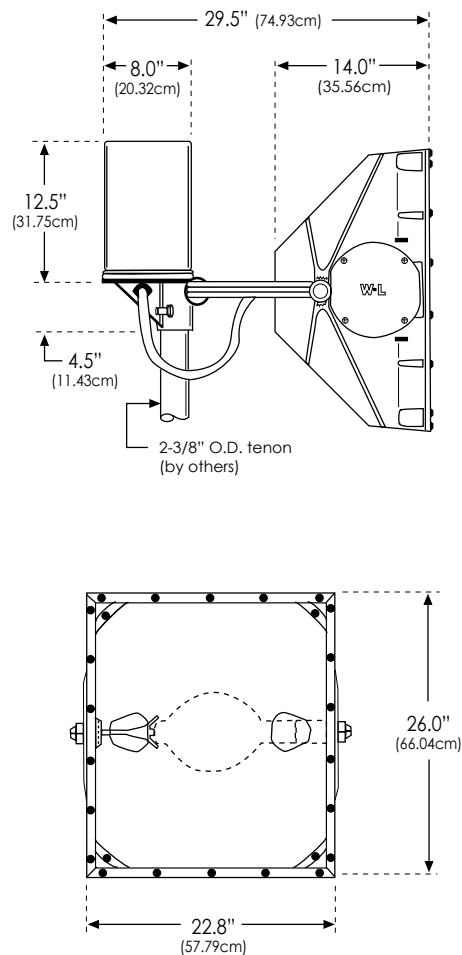
TL Series

Tite-Lite Floodlight, 1000-1500W HID

Type:	Job:					Approvals:
Catalog Number:						
Series/Source-Wattage (include M prefix to designate Marine Listed series)	Optics (Reflector)	Voltage	Options (Factory Installed)	Finish	Accessories (Field Installed)	Date: Page 1 of 6

Overall Dimensions

For Reference Only



EPA (Effective Projected Area in Ft²)
4.68

Weight

107 lbs (48.53 kgs)

Specifications

Housing

The Tite-Lite floodlight features a heavy-duty aluminum housing with built-in aiming device and calibrations on the fixture housing for vertical adjustment. Fixture and ballast arranged as separate but integral components. Dust-Tite housing shall be totally sealed from particulate entry. Standard unit constructed to IP65. MTL Series, with Marine Listing, constructed to IP66.

Optics (Reflector)

High purity anodized aluminum reflectors (trough for type A and B) (spun for type T) to assure maximum efficiency.

Lamp Access

A gasketed re-lamp door provides convenient side lamp access. Allows re-lamping without re-aiming. High temperature gaskets provides positive, weatherproof seal.

Lens

Lens shall be 7/32" clear tempered glass to withstand thermal and physical shock. Extruded aluminum frame is gasketed to provide a sealed, weatherproof optical assembly.

Socket

Pre-wired grip-type mogul base socket. Glass end of the lamp is held in precise photometric alignment and protected from breakage by a Stabilux socket.

Ballast

SilentGuard high power factor ballast with reliable starting down to -29°C (-20°F) for Metal Halide and -40°C (-40°F) for High Pressure Sodium. Ballast has Class H, 180°C (356°F) rated insulation. Crest factor does not exceed 1.8. Core and coil are encapsulated in a polyester resin compound (standard SilentGuard feature) with the capacitor located outside the encapsulation for ease of maintenance. Ballast components are enclosed in a drawn aluminum container. The fixture and ballast are arranged as separate but integral components.

Mounting

Cast aluminum ballast base provides integral mastfitter; suitable for mounting to a 2-3/8" O.D. vertical tenon.

Finish

Standard finish shall be corrosion-resistant textured gray UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured. All components shall be thoroughly cleaned by a 5 stage pre-treatment process including iron phosphate bath and non-chromic acid etching stages, ensuring optimum performance characteristics. Other colors may be specified. Optional marine grade finish is available.

Listings

ETL/cETL listed to the UL 1598 standard, suitable for wet locations, UL 1598A Marine Listing available. The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards.

Warranty / Terms and Conditions

5 year limited warranty. See philips.com/warranties for complete details and exclusions.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled 'Contain Mercury' and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at www.lamprecycle.org.

PHILIPS



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optional Marine Listing	Series/Source-Wattage ¹	Distribution	Voltage
Marine Type UL 1598A Floodlight¹ <input type="checkbox"/> M <i>(M prefix along with series/source-wattage designates marine listed luminaire)</i>	Metal Halide <input type="checkbox"/> TLM-1000 <input type="checkbox"/> TLM-1500 High Pressure Sodium <input type="checkbox"/> TLS-1000²	<input type="checkbox"/> A³ <input type="checkbox"/> B³ <input type="checkbox"/> T⁴	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 <input type="checkbox"/> QV⁵

Options (Factory Installed)	Finish	Accessories (Ordered Separately)
<input type="checkbox"/> BL⁶ Bi-Level dimming <input type="checkbox"/> TL⁶ Tri-Level dimming (consult factory) <input type="checkbox"/> LB Less Ballast (remote mounted ballast) <input type="checkbox"/> LQ Hot/Cold Quartz Restrike <input type="checkbox"/> F-F1⁷ Single Fuse (120/277V) <input type="checkbox"/> F-F2⁷ Double Fuse (208/240/480V) <input type="checkbox"/> RS Redirecting Reflector (available with type A or B reflector and clear lamps only) <input type="checkbox"/> ITL Internal 15° Vertical Cutoff Louver (available with type T reflector and clear lamps only) <input type="checkbox"/> 50HZ 50 Hz ballast operation <input type="checkbox"/> EPXY-CTD-GR Gray Epoxy coated <input type="checkbox"/> EPXY-CTD-WHT White Epoxy coated	<input type="checkbox"/> TGR Textured Gray <input type="checkbox"/> TBK Textured Black <input type="checkbox"/> TDB Textured Dark Bronze <input type="checkbox"/> TWHT Textured White <input type="checkbox"/> TSA Textured Satin Aluminum <input type="checkbox"/> TGN Textured Green <input type="checkbox"/> RAL(*) Custom RAL color number (specify color) <input type="checkbox"/> M(F) Marine grade paint, F = specify color Recommended for coastal applications. Consult factory for color availability.	(F) = specify finish color <input type="checkbox"/> MF-1-(F)⁷ Mastfitter <input type="checkbox"/> MF-2-(F)⁷ Mastfitter with junction box <input type="checkbox"/> PX-1-TL Heavy-Duty Cross Arm bracket with 2-3/8" pipe stub Galvanized finish <input type="checkbox"/> F-F1-KIT-(F)⁸ Single Fuse Kit (120/277V) <input type="checkbox"/> F-F2-KIT-(F)⁸ Double Fuse Kit (208/240/480V) <input type="checkbox"/> FB-1-TL Heavy-Duty Flat Base mount, Galvanized finish <input type="checkbox"/> PCM-1-(F) Photocell mounting bracket <input type="checkbox"/> SK-100-(F)-TL Cutoff Shield <input type="checkbox"/> PM-1-HD Heavy-Duty Wood pole mounting kit for single fixture with one U-arm, Galvanized finish <input type="checkbox"/> PM-2-HD Heavy-Duty Wood pole mounting kit for two fixtures with two U-arms, Galvanized finish <input type="checkbox"/> PM-3-HD Heavy-Duty Wood pole mounting kit for three fixtures with three U-arms, Galvanized finish <input type="checkbox"/> PM-4-HD Heavy-Duty Wood pole mounting kit for four fixtures with four U-arms, Galvanized finish

1) Additional Marine Grade gasketing, specially constructed with low copper content alloy (less than 0.4%) for corrosion control in harsh coastal and industrial environments or wherever marine type units are required. Meets U.S. Coast Guard specifications for marine type applications.

2) In 1000W HPS units, the standard SO cord from ballast to optic head is replaced with flex conduit. Less ballast options and accessories are not available.

3) Optional internal redirecting shield available for reflector types A and B. See option RS.

4) Optional internal 15° vertical cutoff louver available for reflector type T. See option ITL.

5) Quad voltage ballast. Allows field selection of 120/208/240/277 voltage. Certain options may require voltage selection as well.

6) Dimming options available for HPS units in any aiming position. Consult factory for availability of dimming with metal halide units.

7) Remote mount ballast options are not available on MTL (marine listed) series or 1000W HPS unit.

8) Fusing is not available on MAF series (marine listed) units. Voltage must be specified.

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Distribution Guide & Ballast Data ^(1, 2, 3, 4)

Source Type	Catalog Number	Reflector Type	Lamp Envelope	Max Candlepower	H x V NEMA	Field Angle Based on 10%	Beam Angle Based on 50%	.ies File Name	ANSI Code	Line Current 120/208/240/277/480	Line Watts
MH Clear Lamps	TLM-1000	A	BT56	123,603	5 x 4	75° H x 70° V	57° H x 19° V	tlm100a.ies	M47/H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
		B		317,157	5 x 1	72° H x 15° V	58° H x 7° V	tlm100b.ies			
		T		689,214	3 x 1	40° H x 18° V	18° H x 9° V	tlm100t.ies			
	TLM-1500	A	BT56	176,575	5 x 4	75° H x 70° V	60° H x 19° V	tlm150a.ies	M48	14.0 / 8.0 / 7.1 / 6.1 / 3.5	1625
		B		453,081	5 x 1	72° H x 15° V	58° H x 7° V	tlm150b.ies			
		T		997,541	3 x 1	39° H x 18° V	17° H x 8° V	tlm150t.ies			
HPS Coated Lamps	TLS-1000	A	E25	172,847	5 x 5	83° H x 87° V	50° H x 18° V	tls100a.ies	S52	9.5 / 5.5 / 4.8 / 4.2 / 2.5	1100
		B		751,457	5 x 1	75° H x 9° V	41° H x 4° V	tls100b.ies			
		T		743,141	4 x 1	59° H x 17° V	10° H x 6° V	tls100t.ies			

1) MH = Metal Halide, HPS = High Pressure Sodium.

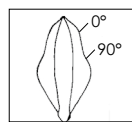
2) All ballasts are CWA (Constant Wattage Autotransformer).

3) Due to variable distribution selection and specific application criteria, LER values and efficiencies are not published. See NEMA Standard LE-5B.

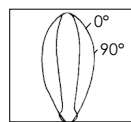
4) Intended aiming and possible lamp orientation restrictions should be considered when selecting floodlight.

Distribution Patterns

A reflector

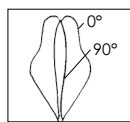


MH clear lamp

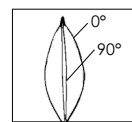


HPS coated lamp

B reflector

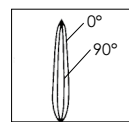


MH clear lamp

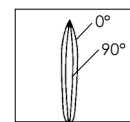


HPS coated lamp

T reflector



MH clear lamp



HPS coated lamp

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Option details (Factory Installed)

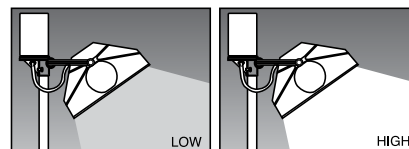
BL Bi-Level
TL Tri-Level switching ballast (consult factory)

Note: Dimming is suitable for HPS in any aiming position. Consult factory when specifying dimming with Metal Halide.

Bi-Level provides high/low level of lamp output with up to 50% power consumption.

Zero crossover network avoids strobing and lamp dropout.

Tri-Level option provides high / mid / low dimming.



LB Less ballast (remote mounted ballast)
Note: Remote mount ballast options and accessories are not available with 1000W HPS or on MTL series (marine listed) units.

Optic unit shipped without standard integral mastfitter and ballast assembly. Requires either mastfitter accessory MF-1 or MF-2 (shipped separately).

Auxiliary / Emergency Lighting (150 watt quartz lamp, standard)
Combined quartz wattage may not exceed HID lamp wattage. 120V double contact bayonet base.

LQ LiteMatic Hot / Cold Quartz Restrike



Provides LiteMatic quartz auxiliary operation for fixtures with 120V or multi-tap ballasts. 120V auxiliary LiteMatic quartz lamp power supplied by ballast (AC line voltage). Quartz lamp remains on for three minutes after main HID lamp strikes and reaches approximately 40% light output.

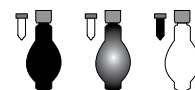
Activation: At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down, Restrike and Ramp Up.

LQ Auxiliary LiteMatic Quartz Operation



Normal Start:

Quartz lamp energized at initial cold start or at restrike after a temporary power interruption.



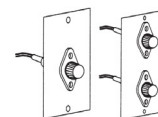
Quartz Lamp Remains on during Ramp Up:

Besides providing illumination while the main HID lamp reaches full brightness, the warmth provided by the quartz lamp helps to create a favorable restrike condition for the main HID lamp (useful in extreme cold temperatures).

Ballast Fusing Voltage must be specified. **Not available for MTL (marine listed) series.**

F-F1-(F) Single Fuse, 120 / 277V
F-F2-(F) Double Fuse, 208 / 240 / 480V

Fuses are KTK/CLK 30 amp unless otherwise specified.
(specify finish)



RS Redirecting reflector
Suitable for units with type A or B reflectors and clear lamps only.

Factory installed internal reflector provides 20° vertical cutoff of the arc tube for tighter vertical beam control.

ITL Internal 15° vertical cutoff louver
Suitable for units with type T reflectors and clear lamps only.

Factory installed internal louver provides 15° vertical cutoff of the arc tube for tighter vertical beam control.



50 HZ 50 Hz ballast operation
(Consult Factory)

Specified for applications (outside the United States) where 50 Hertz operation is standard.

EPXY-CTD-GR Gray Epoxy coated
EPXY-CTD-WHT White Epoxy coated

Flexible coating offers protection against mildly acidic or alkaline conditions.

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Accessory details continued (Field Installed - Shipped Separately)

MF-1-(F) Mastfitter

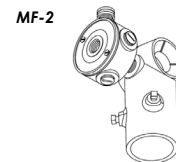
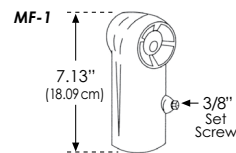
Mastfitter

Cast aluminum mastfitter for 2-3/8" O.D. pipe tenons. Specified with LB option.

MF-2-(F) Mastfitter with junction box

Note: Remote mount ballast options and accessories are not available with 1000W HPS or on MTL series (marine listed) units.

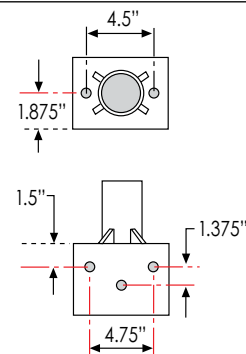
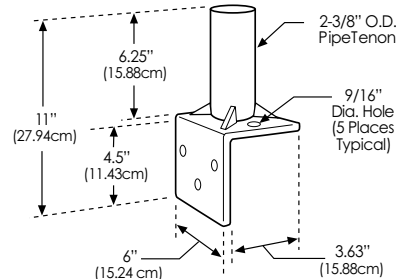
Requires a minimum vertical tenon height of 4-5/8". (specify finish)



PX-1-TL Heavy duty cross-arm bracket

Suitable for installing floodlights on wooden or steel cross-arms.

Steel angle bracket with 2" pipe stub. Four gussets provide additional mounting stability. "L" base. Hot dipped galvanized.

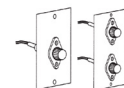


F-F1 KIT-(F) Single fuse kit (120V/277V)

Consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses. Field installed on wiring access plate. (specify finish)

F-F2 KIT-(F) Double fuse kit (208V/240V/480V)

Fusing not available with MTL series (marine listed) units.



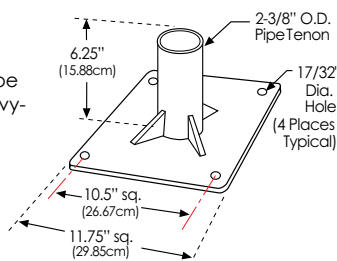
FB1-TL

Heavy duty flat base mount

Steel construction, with 2" pipe stub and four gussets for heavy-duty support.

Hot dipped galvanized.

For installing floodlight to flat horizontal surfaces.

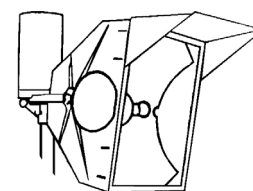


SK-100-TL-(F) Cutoff shield

Cutoff shield

Directs and limits light pattern. Provides vertical cutoff without distortion of lateral pattern.

(specify finish)

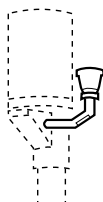


PCM-1-(F) Photoelectric receptacle mounting bracket

Photoelectric receptacle mounting bracket

Bracket with standard twist-lock receptacle for models with integral ballasts.

Threads into 1/2" NPT hole in ballast base or mastfitter. (specify finish) (Photocell not included.)



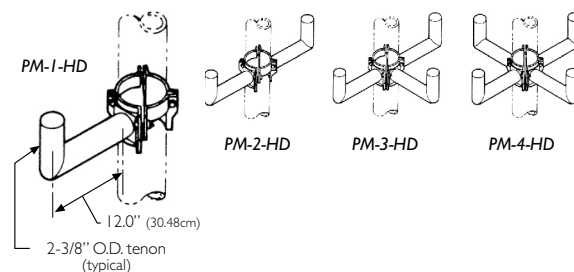
Galvanized steel heavy-duty wood pole mounting kits are suitable for mounting up to four luminaires with mastfitters to 6.0"-12.0" O.D. wood poles. Shipped as components for field assembly.

PM-1-HD Heavy-duty wood pole mounting kit for single luminaire, with 1 U-arm shipping weight: 15 lbs (6.80 kgs)

PM-2-HD Heavy-duty wood pole mounting kit for two luminaires, with 2 U-arms shipping weight: 20 lbs (9.07 kgs)

PM-3-HD Heavy-duty wood pole mounting kit for three luminaires, with 3 U-arms shipping weight: 26 lbs (11.79 kgs)

PM-4-HD Heavy-duty wood pole mounting kit for four luminaires, with 4 U-arms shipping weight: 31 lbs (14.06 kgs)



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Notes



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