

Patents Pending



12-Lamp T5 HO Fluorescent High Bay

Nationally Recognized Fixture Design - Recipient of the 2008 Illuminating Engineering Society Progress Report for advancement to the art and science of Lighting.

Intended Application – The HT series optical design provides a one-for-one replacement of 1000 Watt metal halide high bays. Common installation applications include warehouse and manufacturing facilities, auditoriums, cafeterias, gymnasiums, automotive and truck repair centers, and retail centers.

Construction – The HT Series Light Fixture is constructed of inner-locking, heavy-duty extruded anodized aluminum channels that is light weight yet provides superior structural rigidity to resist deformation caused by heat, impact and vibration. The anodized aluminum construction offers exceptional chemical resistance. Tool-less top access of ballast and electronic chamber allows quick and easy access to vital components.

Reflector – high quality MIRO 4 aluminum reflectors with 95% reflectivity.

Electrical – High efficiency - high temperature (90°C) rated Sylvania Quicktronic® ballast with a 5 year warranty and Sylvania Pentron® High Output, High Performance T5 lamps 6500K with a 3 year warranty. High Voltage version 480V.

Approvals – ETL Listed, UL Listed Class P, Type 1, T5HO High Ambient Temperature Ballast

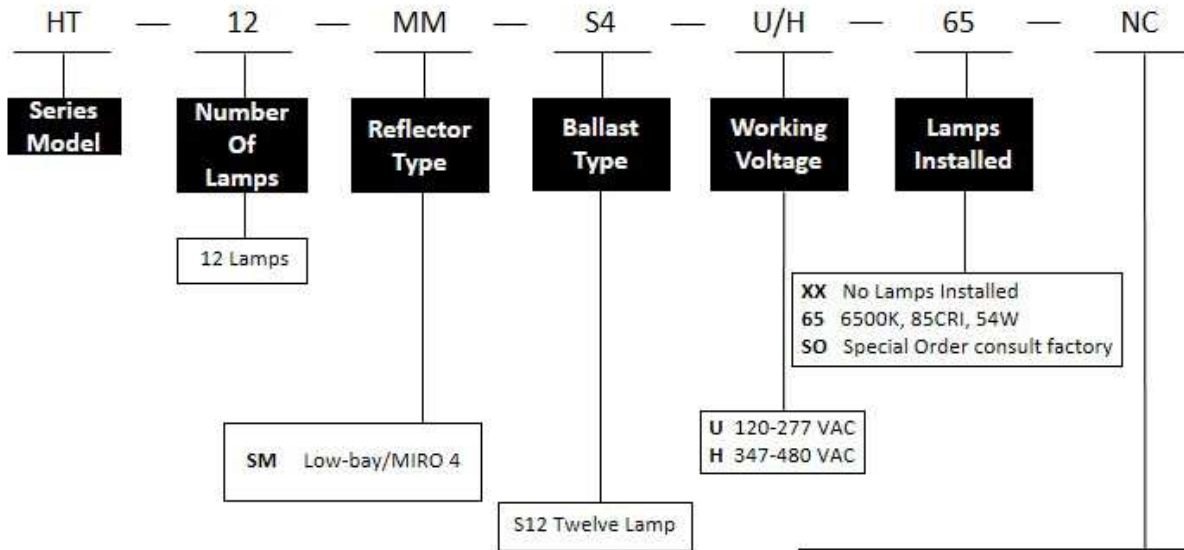
Mounting – Standard offering is aircraft cable with hook.

Active Thermal Management – One of the main causes of premature ballast failure is ballast case heat build-up. Poor heat dissipation can cause the ballast case temperature to rise beyond the manufactures recommended operating temperature which will dramatically reduce ballast life. The HT Series anodized aluminum body has exceptional thermal conductivity properties. Heat dissipation performance has been enhanced by physically isolating the lamp and ballast compartments. As a rule of thumb ballast life may be doubled for every 10° C reduction in ballast case operating temperature. The Active Thermal Management Module offers intelligent active thermal protection for the ballast and electronic controls by automatically engaging forced air exchange throughout the ballast and electronic controls compartment. Because the forced air exchange will cause the ballast and electronics to operate far below the maximum operating temperature in most applications, one can expect increased ballast and electronics life.

Modular Design – The HT Series is offered in three configuration levels.

- **Standard HT Fixture** – The standard HT Series light fixture is offered without controls and is operated like a standard light fixture with all lamps On/Off Switching only. The HT Series light fixture is a modular design that can be easily upgraded with occupancy sensor, Point of Use Control and/or Wireless Network Control.
- **Point of Use Control** – Offers Individual Fixture Dimming Control with Write to Memory Feature. Electronics component fan included.
- **Wireless Network Control** – Offers Dimming Control with Write to Memory Feature, Zone Management Control, Temporary Manual Override Control Feature, and Automated Scheduling Control. Light Harvesting ,Occupancy Sensor Control, and RFID Control are offered as optional modules. Electronics component fan included.

Part Number Description

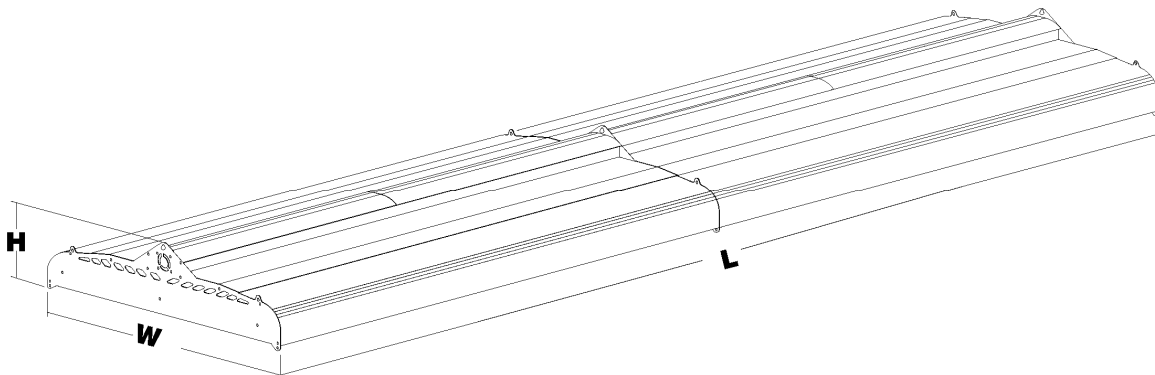


ACCESSORIES

Order as separate catalog number

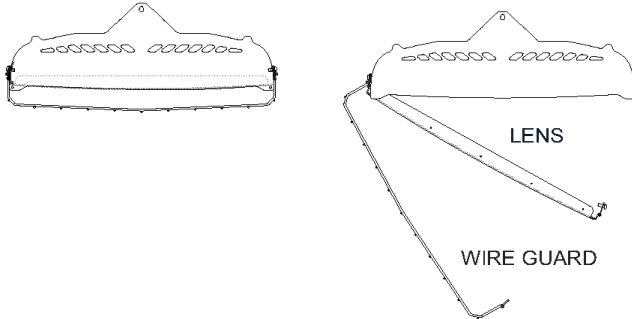
- SLD15L1TP** 1 Pair Aircraft cable with hook 5 ft
- SLD15L2TP** 1 Pair Aircraft cable with hook 10 ft
- SLD15L3TP** 1 Pair Aircraft Cable with hook 15 ft
- SLD15L4TP** 1 Pair Aircraft Cable with hook 20 ft
- HTWG6** Wire Guard 6 Lamp (Requires Two)
- HTLN6** Clear Acrylic Lens 6 Lamp (Requires Two)
- HTWL6** Wire Guard with Lens 6 Lamp (Requires Two)

- NC** Fixture No Control
 - OS** Occupancy Sensor
 - SD** Point of Use Point/Dim Control Module
 - WM** Wireless Network Point/Dim Control Module
- *Note - Control Components are Factory Installed and are priced separately*



Dimensions HT-12-MM-S12-U

Length 95.0" Width 19.75" Height 6.75"

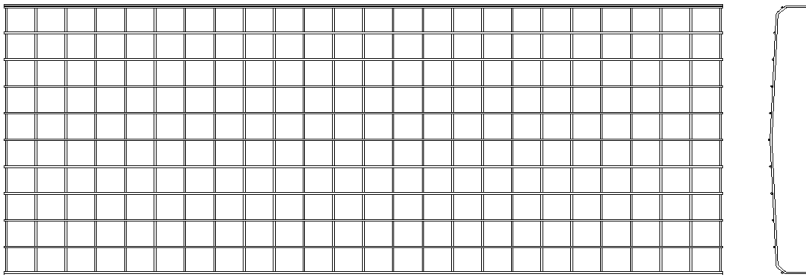
Wire Guard and Lens Assemblies

The HT12-MM-S12-U Series Light fixture can be ordered with optional wire guard and lens.

1. **HTWG6** Wire Guard
2. **HTLN6** Clear Acrylic Lens
3. **HTWL6** Wire Guard with Clear Acrylic Lens

Note: The HT12-MM-S12 requires two each of Wire Guard and Lens Combinations listed above.

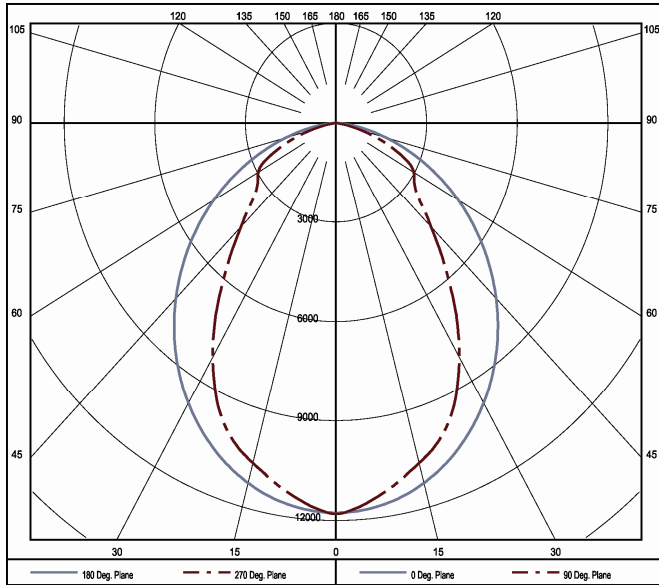
The Rapid Swing Down Design of the Wire Guard and Lens allows quick and easy installation of lamps and is the perfect solution for tight location installations. The Wire Guard and Lens are screw hinged on both sides of the fixture and can be lowered from either side for a fast and easy access to the lamps.



The HTWG6 wire guard is constructed with Heavy Duty 11 gauge powder coated steel. Typical Sports and Recreational applications include , school gymnasiums, hockey and ice skating rinks, handball courts, racquetball courts, squash courts, lacrosse courts, and indoor swimming pools.



The HTLN6 is a UV Stabilized Clear Acrylic Lens that resists fading and is attached to a compact, convex shaped aluminum frame for improved strength and heat dissipation. The contour of the aluminum frame is designed to minimize light blockage so the maximum level of light is reflected through the lens. Typical Sports and Recreational applications listed above and food packaging and manufacturing facilities.



Luminaire Data

Luminaire	HT Series Model: HT6MMS6U 6-Lamp T5HO with MIRO 4 Reflector
Lamps	FP54/865/HO/ECO rated at 54 Watt Each
Lumens per Lamp	4400 Lumens
Ballast	Quicktronic QTP2X54T5HO/UNV-PSN-HT-W Quicktronic QTP4X54T5HO/UNV-PSN-HT-W
Ballast Factor	1.00
Total Luminaire Efficiency	96.90%
Spacing Criterion	0 deg: 1.23 90 deg: 1.07
Fixture Wattage	322.3W @ 277 VAC @ 25°C

Coefficients of Utilization

Effective floor cavity reflectance 20%

RC RW RCR	80				70				50				30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	1.154	1.154	1.154	1.154	1.127	1.127	1.127	1.127	1.077	1.077	1.077	1.077	1.031	1.031	1.031	0.989	0.989	0.989	0.969
1	1.066	1.025	0.988	0.955	1.041	1.003	0.97	0.939	0.993	0.963	0.935	0.91	0.925	0.903	0.882	0.891	0.873	0.856	0.837
2	0.978	0.905	0.845	0.795	0.954	0.887	0.832	0.785	0.908	0.854	0.807	0.767	0.822	0.784	0.75	0.794	0.762	0.733	0.713
3	0.898	0.804	0.731	0.673	0.875	0.789	0.721	0.667	0.832	0.761	0.703	0.655	0.735	0.685	0.644	0.71	0.669	0.633	0.613
4	0.827	0.719	0.64	0.579	0.806	0.707	0.633	0.575	0.767	0.683	0.619	0.568	0.661	0.605	0.56	0.64	0.592	0.553	0.533
5	0.765	0.648	0.566	0.506	0.745	0.637	0.56	0.503	0.709	0.617	0.55	0.498	0.598	0.539	0.492	0.581	0.529	0.487	0.468
6	0.709	0.587	0.505	0.447	0.691	0.578	0.501	0.445	0.659	0.561	0.492	0.441	0.545	0.484	0.437	0.531	0.476	0.434	0.415
7	0.66	0.536	0.455	0.399	0.644	0.528	0.452	0.397	0.614	0.514	0.445	0.394	0.5	0.438	0.392	0.487	0.431	0.389	0.371
8	0.616	0.491	0.413	0.359	0.602	0.485	0.41	0.358	0.575	0.472	0.404	0.356	0.461	0.399	0.354	0.449	0.393	0.352	0.334
9	0.577	0.453	0.377	0.325	0.564	0.447	0.374	0.325	0.54	0.437	0.37	0.323	0.426	0.365	0.321	0.417	0.361	0.32	0.303
10	0.543	0.42	0.346	0.297	0.531	0.415	0.344	0.296	0.508	0.405	0.34	0.295	0.396	0.336	0.294	0.388	0.333	0.293	0.276

Zonal Lumen Summary

Zone	Lumens	% of Lamp	% Luminaire
0-30	8638	32.7	33.8
0-40	13605	51.5	53.2
0-60	21630	81.9	84.5
0-90	25593	96.9	100
0-180	25593	96.9	100

Average Luminance Table (cd/m²)

	0	45	90
0	20607	20607	20607
45	18536	13957	10988
55	17220	10259	9651
65	15199	9107	10267
75	11703	8141	6320
85	4956	1022	71

NOTE: Photometric data is for one 6-Lamp luminaire. To simulate design with 12-Lamp luminaire, place two luminaires four feet apart.