Philips SILHOUETTE™ Series T5 HO Extreme Temperature Lamps featuring ALTO® Lamp Technology

Ideal for medium-bay and high-bay applications without climate control

SILHOUETTE™ SERIES

† This lamp is better for the environment because of its reduced mercury content. All Philips ALTO® lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.

Improve your light quality while reducing your energy costs

Philips SILHOUETTE™ Series T5 HO Extreme Temperature lamps are ideal for extreme temperature spaces for increased energy savings*.

Provides extraordinary lumen output even in spaces without climate control

- Lumen output is > 90% from 65˚F to 170˚F (20˚C to 75˚C) due to amalgam technology

Reduced maintenance and disposal costs

- Long life for an extended relamping cycle
- 35,000 hours rated average life[1,3]
- 92% lumen maintenance
- Warranty period: 36 months

Slim profile lamp and ballast

- Improved optical control
- Design flexibility

Sustainable lighting solution

- Reduces the impact on the environment: low mercury, energy efficiency and long life

(1,3, See back page for footnote)

* See Energy Savings chart on back

PHILIPS

sense and simplicity

Philips SILHOUETTE™ Series T5 HO Extreme Temperature lamps featuring ALTO® Lamp Technology

Ordering, Electrical and Technical Data

	Product Number	Description	Nom. Watts	Pkg. Qty.	Color Temp. (Kelvin)	Nom. Length (In.)	Rated Average Life (Hrs.)[1] 3-hr Start[2]	12-hr Start[3]	Approx. Initial Lumens[4]	Design Lumens[5]	CRI	Lumen Maint.
E	21766-1	F54T5/835/HO/A/ALTO	54	40	3500	46	25,000	35,000	5000	4750	85	92%
E	21769-5	F54T5/841/HO/A/ALTO	54	40	4100	46	25,000	35,000	5000	4750	85	92%

1) Rated average life is the length of operation (in hours) at which point an average of 50% of a large sample of lamps will still be operational and 50% will not.

2) Average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

3) Average life under engineering data with lamps turned off and restarted once every 12 operating hours. Lamp life is appreciably longer if lamps are started less frequently.

4) Approximate initial lumens. The lamp lumen output is based upon lamp performance after 100 hours of operating life, when the output is measured during operation on a high frequency reference ballast under standard laboratory conditions. For expected lamp lumen output, commercial ballast manufacturers can advise the appropriate ballast factor for each of their ballasts when they are informed of the designated lamp. The ballast factor is a multiplier applied to the designated lamp lumen output.

5) Design lumens are the approximate lamp lumen output at 40% of the lamp's rated average life. This output is based upon measurements obtained during lamp operation on a reference ballast under standard laboratory conditions.

E Lamp meets US Federal Minimum Efficiency Standards.

Energy Savings

Save up to 100 Watts when you upgrade to a 6 lamp T5HO System from a MH400 or MS360 HID System

	Energy Costs Based on Annual Operating Hrs◊				Energy Savings with 100 Fixtures		Energy Costs Based on Annual Operating Hrs◊				Energy Savings with 100 Fixtures	
	MH400 460 System Watts		T5 54W HO 360 System Watts		T5 54W HO vs. MH400†		MS360 420 System Watts		T5 54W HO 360 System Watts		T5 54W HO vs. MS360††	
kWh Rate	4380*	8760**	4380*	8760**	4380*	8760**	4380*	8760**	4380*	8760**	4380*	8760**
$0.06	$120.89	$241.78	$94.61	$189.22	$2,628	$5,256	$110.38	$220.75	$94.61	$189.22	$1,577	$3,154
$0.08	$161.18	$322.37	$126.14	$252.29	$3,504	$7,008	$147.17	$294.34	$126.14	$252.29	$2,102	$4,205
$0.10	$201.48	$402.96	$157.68	$315.36	$4,380	$8,760	$183.96	$367.92	$157.68	$315.36	$2,628	$5,256
$0.12	$241.78	$483.55	$189.22	$378.43	$5,256	$10,512	$220.75	$441.50	$189.22	$378.43	$3,154	$6,307
$0.20	$402.96	$805.92	$315.36	$630.72	$8,760	$17,520	$367.92	$735.84	$315.36	$630.72	$5,256	$10,512

◊ Energy cost based on: (annual operating hours x kWh rate x system watts) ÷ 1,000

* Based on 4,380 annual operating hours (12 hours per day/7 days per week)

** Based on 8,760 annual operating hours (24 hours per day/7 days per week)

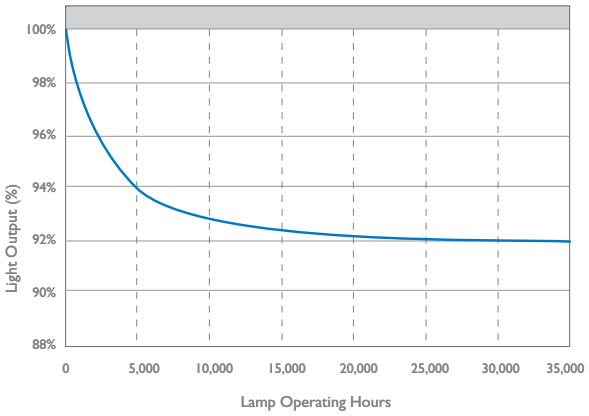
† Energy savings based on: (costs of MH400 - cost of T5 54W HO) x 100 fixtures.

†† Energy savings based on: (cost of MS360 - cost of T5 54W HO) x 100 fixtures.

Above specifications subject to change without notice.

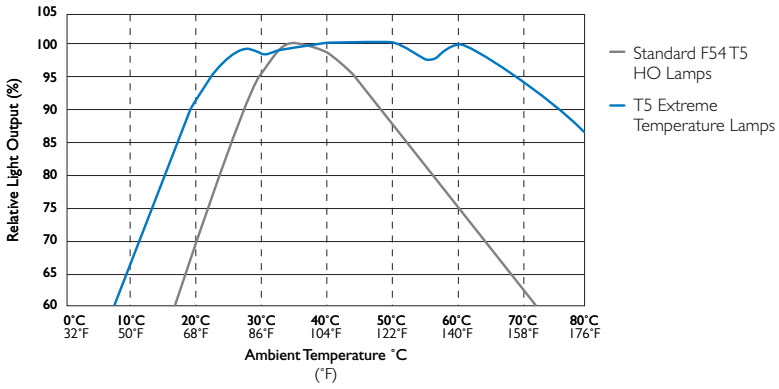
92% Lumen Maintenance

SILHOUETTE™ Series T5 HO Extreme Temperature



Performance (Relative Light Output vs. Temperature)

Philips T5 HO Extreme Temperature Lamps vs. Standard F54T5 Lamps



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