

LEDVANCE T5HO and T5 Programmed Rapid Start

120-277 Voltage High Efficiency Ballasts

Normal Ballast Factor Models

Lamp/Ballast Guide

T5 HO Ballasts 120-277V PSN**4-Lamp 54W HO Model:**

LHE4X54T5HOUNVPSNHTSCLDOE

2-Lamp 54W Model:

LHE2X54T5HOUNVPSNHT

Primary lamps: 54W T5HO

Also operates:

FP54/SS, FT50DL, FT55DL, FPC55

1 or 2 lamps on 2L ballasts

1, 2, 3 or 4 lamps on 4L ballast

2-lamp 39W/24W model:

LHE2X3924T5HOUNVPSN

Primary Lamp: 39W T5 HO

Also operates: F24, F39/SS, F24/SS

T5 Ballast 120-277V PSN:

2-lamp

Primary lamp: FP28.

Also operates: FP14, FP21 and FP35

Application Information

These LEDVANCE High Efficiency ballasts are ideally suited for:

- Commercial and Industrial
- Retail and Office
- Hospitality and Institutional
- Maintenance Replacement



Scan or click QR code to access
TLED Ballast Compatibility Listing



Ordering Information

Item Number	Description	# of Lamps	Primary Lamp (W)	Lamp Family	Line Voltage	Starting Method	Ballast Factor	Case Ambient Temp.	Case Size	Packaging
T5HO										
75872	LHE4X54T5HOUNVPSNHTSCLDOE	4	54	T5 HO	UNV	PS	N	High	SCL	4/CS 1/SKU
75893	LHE2X54T5HOUNVPSNHT	2	54	T5HO	UNV	PS	N	High	Small	10/CS 1/SKU
75895	LHE2X3924T5HOUNVPSN	2	39	T5HO	UNV	PS	N	Normal	Small	10/CS 1/SKU
T5										
75871	LHE2X28T5UNVPSN	2	28	T5	UNV	PS	N	Normal	Small	10/CS 1/SKU



Electrical Specifications at 120-277V

Item Number	Description	Input Current (AMPS)	Lamp Type	Rated Lumens (lm)	No. of Lamps	Ballast Factor (BF)	System Lumens (lm)	Mean Lumens (lm)	Input Power (W)	System Efficacy (lm/W)	BEF*
T5HO											
75872	LHE4X54T5HOUNVPSNHTSCLDOE	1.8 /0.79	FP54T5HO	5000	4	1.00	20,400	18,972	224/217	99/98	0.47/0.48
		1.4 /0.61	FP54T5HO	5000	3	1.00	15,150	14,090	169/165	99/97	0.62/0.63
		1.00/0.52	FP54T5HO	5000	2	1.00	10,200	9486	120/117	99/97	0.83/0.85
75893	LHE2X54T5HOUNVPSNHT	1.00/0.43	FP54T5HO	5000	2	1.00	10,000	9300	119/116	86	0.86
		0.53/0.23	FP54T5HO	5000	1	1.05	5250	4885	62/61	86	1.72
		0.71/0.31	FP39T5HO	3500	2	1.00	7000	6510	83/81	86	1.23
75895	LHE2X3924T5HOUNVPSN	0.37/0.19	FP39T5HO	3500	1	1.01	3535	3288	42/42	84	2.4
		0.44/0.19	FP24T5HO	2000	2	1.00	4000	3720	54/53	75	1.89
		0.23/0.10	FP24T5HO	2000	1	1.01	2020	1879	29/29	70	3.48
T5											
75871	LHE2X28T5UNVPSN	0.23	FP28	2900	2	1.00	5800	5395	64/63	92	1.62
		0.13	FP28	2900	1	1.00	2900	2695	33/34	90	3.31

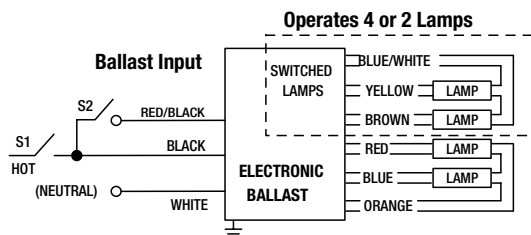
*Ballast Efficiency Factor (BEF) shown = (Ballast Factor x 100) divided by Input Power 277V 60Hz data

Wiring Diagrams

For model: 75872

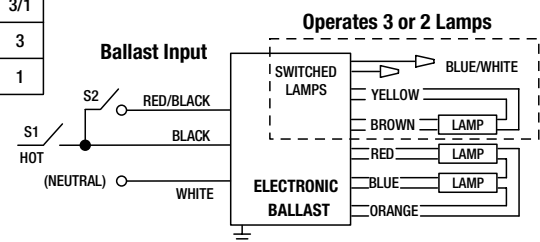
4-Lamp Switching Wiring Diagram (4L to 2L)

S1	S2	4/2
ON	ON	4
ON	OFF	2



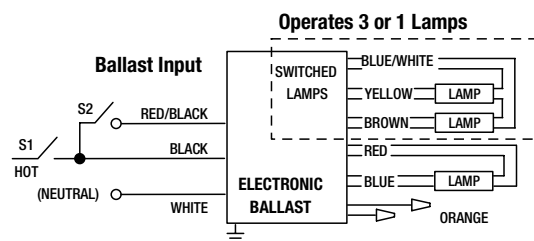
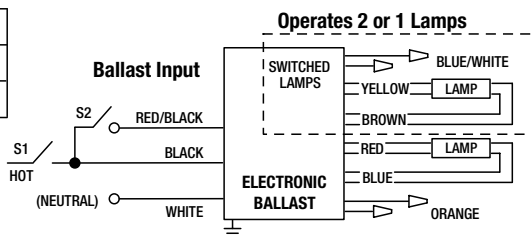
3-Lamp Switching Wiring Diagram (3L to 2L, 3L to 1L)

S1	S2	3/2	3/1
ON	ON	3	3
ON	OFF	2	1



2-Lamp Switching Wiring Diagram (2L to 1L)

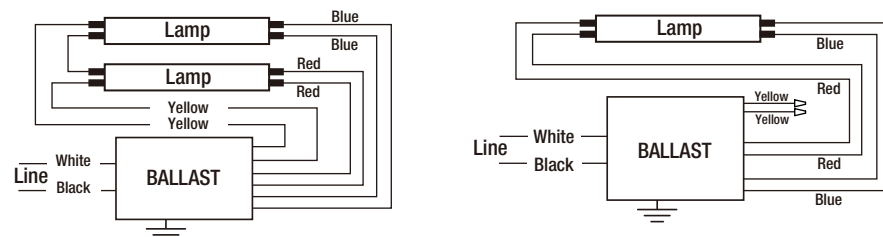
S1	S2	2/1
ON	ON	2
ON	OFF	1



Note:

- S2 IS THE WALL SWITCH INPUT USED FOR STEP DIMMING, IF APPLICABLE.
- THE AC LINE INPUTS MUST BE CONNECTED TO THE SAME PHASE OF THE LINE VOLTAGE.
- DO NOT CONNECT TWO SEPARATE PHASES OF LINE VOLTAGE TO THE BALLAST INPUT.
- INPUT WIRING FOR NON-SWITCHING OPERATION CONNECT RED/BLACK TO BLACK (LINE) FOR ALL LAMPS ON (NO S2).
- CAP ALL UNUSED LEADS. INSULATE UNUSED LEADS WITH UL-LISTED CONNECTORS RATED FOR 600V.

For models: 75893/75895 (T5HO)
or 75871 (T5)



NOTE: FOR ONE LAMP APPLICATION, CAP BOTH YELLOW LEADS. INSULATE UNUSED LEADS WITH UL-LISTED CONNECTORS RATED FOR 600V.

Physical Information

T5HO

For 75872 LHE4X54T5HOUNVPSNHTSCLDOE model:

Dimensions:
Overall: 16.75"L x 1.8"W x 1.2"H
(425.45mm L x 45.72mm W x 30.48mm H)
Mounting: 16.3" (414.02mm)
Weight: 3.0 lbs. each (approx.)

Packaging:
For 75872 LHE4X54T5HOUNVPSNHTSCLDOE model:
Quantity: 4 per case /1 per SKU
Type: Retail Friendly. Shrink-wrapped case, shrink-wrapped SKU with installation guide.
Weight: 12.4 lbs. per case (approx)
Note: Full Case Required at purchase and/or return.

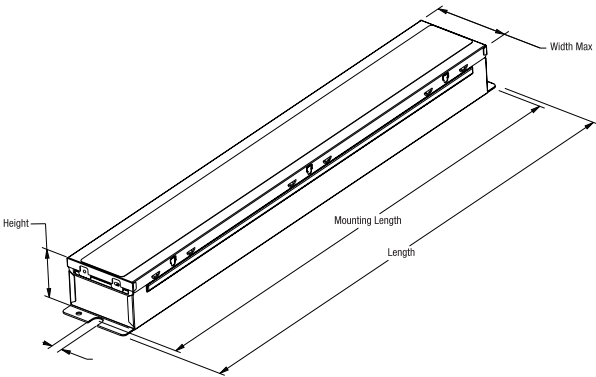
Wiring:
Leads only (no connectors provided)
White, Black, Black/Red 25"
Blue/White, Orange 46" (±1")
Red, Blue, Brown, Yellow 31" (±1")

For 75893 LHE2X54T5HOUNVPSNHT model
and 75895 LHE2X3924T5HOUNVPSN model

Dimensions:
Overall: 9.5" L x 1.3" W x 1" H
(241mm L x 33mm W x 25mm H)
Mounting: 8.90" (226mm)

Packaging:
Quantity: 10 per case /1 per SKU
Weight: 1.0 lbs. (75893); 0.8 lbs. (75875)

Wiring:
Leads only (no connectors provided)
White, Black 25"
Yellow 46" (±1")
Red/Blue 31" (±1")



Specification Data

Type	
Catalog #	
Project	
Comments	
Prepared by	

T5HO

Performance Guide

Data based on fluorescent lamps listed.
LHE Programmed Rapid Start ballast is also compatible with other lamp manufacturers equivalent lamp types that meet ANSI specifications.

Specifications

Starting Method: Programmed Rapid Start
Ballast Factor: 1.0
Circuit Type: Series
Lamp Frequency: >42 kHz
Input Frequency: 50/60 Hz
Low THD: <10%
Power Factor: >98% @120V 4, 3 and 2L @277V >97% 4L, >92% 3L, >92% 2L
Lamp CCF: <1.7
Voltage Range: ±10% rated input (108-305V) AC

Operating Temperatures
Starting Temperature: -20°F (-29°C)
Case Temp:
194F (90C) Max (3yr Warranty)
158F (70C) Max (5yr Warranty)
Max Ambient Temp.: 131°F (55°C)

Product Ratings
DOE Compliant
UL Listed Class P, Type 1, Outdoor,
FCC Part 18 and ICES-005 Non-Consumer
Class A Sound Rating
ANSI C62.41 Cat. A Transient Protection
RoHS Compliant¹
No PCBs.
Type CC, Type HL

¹ Complies with European Union Restriction of Hazardous Substances (Directive 2002/95/EC)

Installation Notes

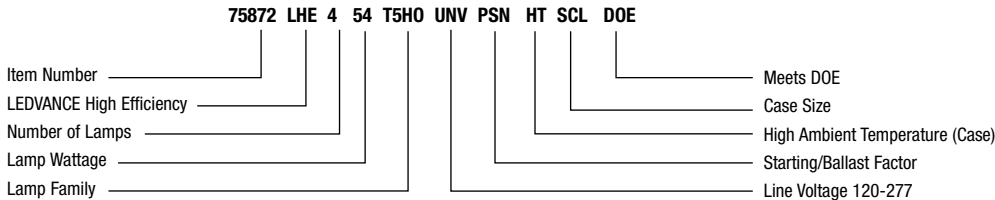
- Ground ballast case
- Install in accordance with National Electrical Codes
- Insulate unused leads for 600V
- Remote Mounting- 18ft. max Lead Length 18AWG
- Input wiring for non-switching operation
Connect Red/Black wire to Black wire for ALL Lamps ON (no S2)
- Input wiring for Occupancy Sensors
Install occupancy sensor between Red/Black wire. S2 is the occupancy sensor

Warranty

LEDVANCE ballasts carry a five-year warranty from date of manufacture. For additional details, check out the latest Warranty Bulletin on our website ledvanceUS.com

Ordering Guide

T5HO



SCAN OR CLICK QR CODE TO ACCESS WARRANTY.

Physical Information

T5

For 75871 LHE2X28T5UNVPSN model:

Dimensions:

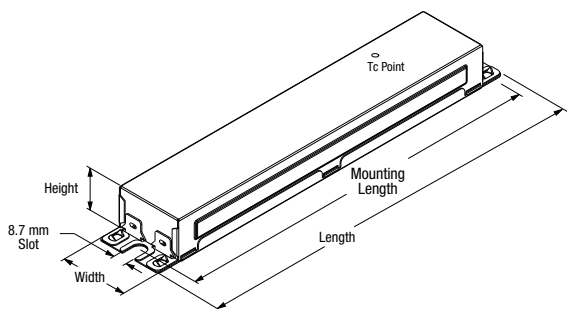
Overall: 9.5" L x 1.3" W x 1" H
(241mm L x 33mm W x 25mm H)
Mounting: 8.90" (226mm)

Packaging:

Quantity: 10 per case/1 per SKU
Weight: 0.7 lbs. each (approx.)

Wiring:

Leads only (no connectors provided)
White, Black 25"
Yellow 46" (±1")
Red/Blue 31" (±1")



Ordering Guide

T5

	75871	LHE	Xx	28	T5	UNV	PS	N	
Item Number									Ballast Factor
LEDVANCE High Efficiency									Starting Method
Number of Lamps									Line Voltage
Lamp Wattage									Lamp Family

Specification Data

Type

Catalog

Project

Comments

Prepared by

T5

Performance Guide

Data based on fluorescent lamps shown. LHE Programmed Rapid Start ballasts are also compatible with other lamp manufacturers' equivalent lamp types that meet ANSI specifications.

Specifications

Starting Method: Programmed Rapid Start

Ballast Factor: 1.00

Circuit Type: Series

Lamp Frequency: >42kHz

Input Frequency: 50/60 Hz

Low THD: <10%

Power Factor: >98%, 1 lamp @277V >95%

Voltage Range: ±10% rated input

Operating Temperatures¹

Starting Temperature: 0°F (-18°C)

Case Temp: 158°F (70°C) Max

Max Ambient Temp.: 131°F (55°C)

Product Ratings

UL Listed Class P, Type 1, Outdoor, CEC, NRCAN

FCC Part 18 and ICES-005 Non-Consumer

Class A Sound Rating

ANSI C62.41 Cat. A Transient Protection

RoHS Compliant²

No PCBs, Type CC

¹ Operation below 50°F (10°C) may affect light output or lamp operation.

² Complies with European Union Restriction of Hazardous Substances (Directive 2002/95/EC)

Installation Notes

- Ground ballast case
- Install in accordance with the National Electrical Code
- Remote Mounting: 18ft. max lead length 18AWG

System Life/Warranty

LEDVANCE ballasts carry a five-year warranty from date of manufacture. For additional details, check out the latest Warranty Bulletin on our website, ledvanceUS.com.



SCAN OR CLICK QR CODE TO ACCESS WARRANTY.

Products distributed by LEDVANCE LLC

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