

INTRODUCING:

SAMSUNG ELECTRONICS

LED Tube Technical data sheet [2014 2H]



L-Tube (Performer) Series

: Energy-saving alternative to traditional fluorescent lamps

- L-tube installation without re-wiring of fixture* (compatible with conventional ballast)
- lower facility maintenance costs (long lifetime → reduced re-lamping frequency)
- application: Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

*For CCG(magnetic ballast) type, Conventional Starter has to be changed with L-Starter(L-Tube Starter)



[600mm]

- GU12H5009V8IEU
- 🕑 GU12H5009T8IEU
- GU12H5009R8IEU

[1200mm]

- GU14H5016V8IEU
- GU14H5016T8IEU
- QU14H5016R8IEU
- 🖸 GU14H5016P8IEU

[1500mm]

- GU15H5024V8IEU
- D GU15H5024T8IEU
- GU15H5024R8IEU









Product

Maker Samsung Electronics Model Code / EAN Code **Power Consumption** 9.2W Product

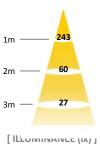
GU12H5009V8IEU / 8806086251815 AC 220~240V (50/60Hz)

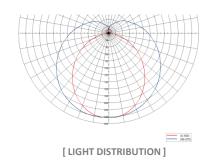
CCG Compatible/AC Direct LED tube

Lamp Socket holder G13



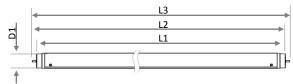
■ Lighting Data





Dimensional drawing

[unit:mm]



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
588.8	596.0	603.2	27.7

Specifications

Tuno	LED Tube	Nominal beam angle (°)	> 160
Туре	LED Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	9.2	Operating temperature (℃)	-20~+50
Rated power consumption (W)	9.2	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	1,000	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,000	Color description	Warm White
Frequency (Hz)	50/60	Color temperature (K)	3000
Input current (mA)	42	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	590
Lumen Maintenance Factor	L70	Weight (g)	120
Warm-up time	Instant full light	Energy efficiency index	A+
Starting time (s)	0.1	Energy consumption (kWh/1000h)	10
On/Off cycles	50,000	Certification	CE

■ Application

- * Specifications are subject to change without notice.
- * Energy consumption is calculated based on AC direct type Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

■ Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)	
Dimensions (L×W×H)	699mm x 34mm x 34mm	704mm x 185mm x 152mm	
Gross Weight	172g	3.9kg	

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- · emits no UV

■ Product

Maker Samsung Electronics

Model Code / EAN Code GU12H5009T8IEU / 8806086251792

Voltage AC 220~240V (50/60Hz)

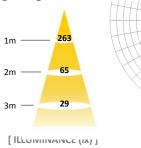
Power Consumption 9.2W

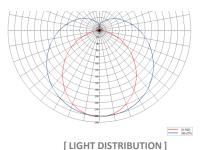
Product CCG Compatible/AC Direct LED tube

Lamp Socket holder G13

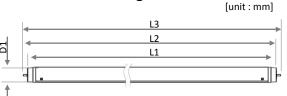


■ Lighting Data





■ Dimensional drawing



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
588.8	596.0	603.2	27.7

■ Specifications

Туре	LED Tube	Nominal beam angle (°)	> 160
Туре	LED Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	9.2	Operating temperature (℃)	-20~+50
Rated power consumption (W)	9.2	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (Im)	1,050	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,050	Color description	Neutral White
Frequency (Hz)	50/60	Color temperature (K)	4000
Input current (mA)	42	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	590
Lumen Maintenance Factor	L70	Weight (g)	120
Warm-up time	Instant full light	Energy efficiency index	A+
Starting time (s)	0.1	Energy consumption (kWh/1000h)	10
On/Off cycles	50,000	Certification	CE, SIRIM, RCM

■ Application

- * Specifications are subject to change without notice.
- * Energy consumption is calculated based on AC direct type
 Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

■ Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	699mm x 34mm x 34mm	704mm x 185mm x 152mm
Gross Weight	172g	3.9kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- · emits no UV



Product

Maker

Model Code / EAN Code

Voltage

Power Consumption

Product

GU12H5009R8IEU / 8806086251617

AC 220~240V (50/60Hz)

Samsung Electronics

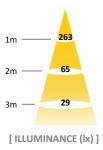
9.2W

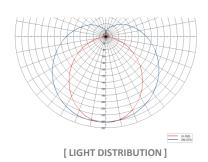
CCG Compatible/AC Direct LED tube

Lamp Socket holder G13

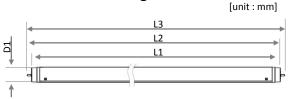


■ Lighting Data





■ Dimensional drawing



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
588.8	596.0	603.2	27.7

■ Specifications

<u> </u>			
Tuna	LED Tube	Nominal beam angle (°)	> 160
Туре	LED Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	9.2	Operating temperature (℃)	-20~+50
Rated power consumption (W)	9.2	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (Im)	1,100	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,100	Color description	Cool White
Frequency (Hz)	50/60	Color temperature (K)	5000
Input current (mA)	42	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	590
Lumen Maintenance Factor	L70	Weight (g)	120
Warm-up time	Instant full light	Energy efficiency index	A+
Starting time (s)	0.1	Energy consumption (kWh/1000h)	10
On/Off cycles	50,000	Certification	CE

■ Application

- * Specifications are subject to change without notice.
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

■ Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	699mm x 34mm x 34mm	704mm x 185mm x 152mm
Gross Weight	172g	3.9kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- · emits no UV



■ L-Tube Performer Range



Samsung CCG Compatible L-Tube lamps are not for use with dimmers or dimming systems.

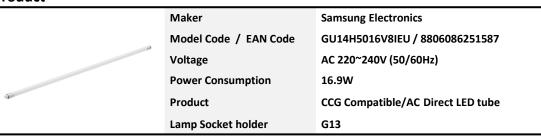
■ Ballast Compatibility

Model	Maker	Model Name
Performer 600mm	ABB	18-059 CF55
	Vossloh & Schwabe	LN18.220
	VOSSIOII & SCHWADE	LN18.507
	TRIDONIC	EC 18 LC111K
	ABB	VVG 18-059 CF28
	Helvar	L18A-K



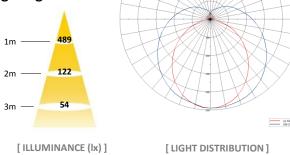
1200mm / 16.9W / G13 / 160° / 3000K

■ Product





■ Lighting Data



■ Dimensional drawing

[unit:mm]

	L3	
_	L2	
	L1	
<u>*</u>	d .	

L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1198.4	1205.6	1212.8	27.7

■ Specifications

. •			
Type	LED Tube	Nominal beam angle (°)	> 160
Туре	LED Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	16.9	Operating temperature (℃)	-20~+50
Rated power consumption (W)	16.9	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	2,100	Rated lamp life time (hrs)	50,000
Rated luminous flux (Im)	2,100	Color description	Warm White
Frequency (Hz)	50/60	Color temperature (K)	3000
Input current (mA)	82	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1200
Lumen Maintenance Factor	L70	Weight (g)	200
Warm-up time	Instant full light	Energy efficiency index	A++
Starting time (s)	0.1	Energy consumption (kWh/1000h)	17
On/Off cycles	50,000	Certification	CE

■ Application

- * Specifications are subject to change without notice
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

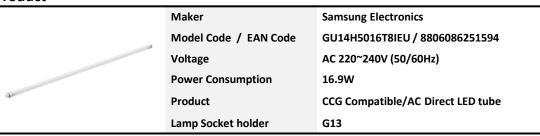
■ Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	1308mm x 34mm x 34mm	1313mm x 185mm x 152mm
Gross Weight	287g	6.6kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- · compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- emits no UV

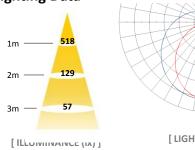
1200mm / 16.9W / G13 / 160° / 4000K

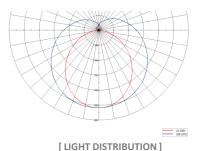
Product



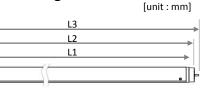


■ Lighting Data





Dimensional drawing



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1198.4	1205.6	1212.8	27.7

Specifications

Tuno	LED Tube	Nominal beam angle (°)	> 160
Туре	LED Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	16.9	Operating temperature ($^{\circ}$ C)	-20~+50
Rated power consumption (W)	16.9	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	2,150	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	2,150	Color description	Neutral White
Frequency (Hz)	50/60	Color temperature (K)	4000
Input current (mA)	82	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1200
Lumen Maintenance Factor	L70	Weight (g)	200
Warm-up time	Instant full light	Energy efficiency index	A++
Starting time (s)	0.1	Energy consumption (kWh/1000h)	17
On/Off cycles	50,000	Certification	CE, SIRIM, RCM

■ Application

- * Specifications are subject to change without notice
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

■ Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	1308mm x 34mm x 34mm	1313mm x 185mm x 152mm
Gross Weight	287g	6.6kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- · compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- · emits no UV



1200mm / 16.9W / G13 / 160° / 5000K

■ Product

Maker Samsung Electronics

Model Code / EAN Code GU14H5016R8IEU / 8806086251600

Voltage AC 220~240V (50/60Hz)

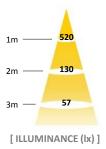
Power Consumption 16.9W

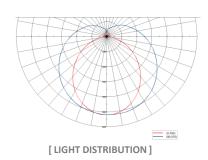
Product CCG Compatible/AC Direct LED tube

Lamp Socket holder G13

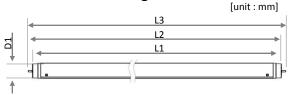


■ Lighting Data





■ Dimensional drawing



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1198.4	1205.6	1212.8	27.7

■ Specifications

Туре	LED Tube	Nominal beam angle (°)	> 160
туре	LLD Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	16.9	Operating temperature ($^{\circ}$ C)	-20~+50
Rated power consumption (W)	16.9	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (Im)	2,200	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	2,200	Color description	Cool White
Frequency (Hz)	50/60	Color temperature (K)	5000
Input current (mA)	82	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1200
Lumen Maintenance Factor	L70	Weight (g)	200
Warm-up time	Instant full light	Energy efficiency index	A++
Starting time (s)	0.1	Energy consumption (kWh/1000h)	17
On/Off cycles	50,000	Certification	CE, SIRIM

■ Application

- * Specifications are subject to change without notice
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

Packaging Details

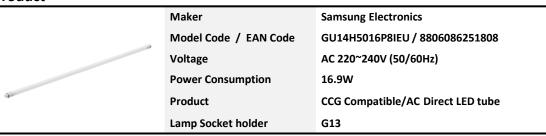
Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	1308mm x 34mm x 34mm	1313mm x 185mm x 152mm
Gross Weight	287g	6.6kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- · compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- emits no UV



1200mm / 16.9W / G13 / 160° / 6500K

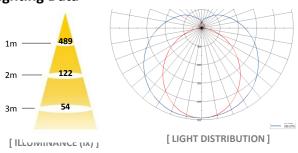
■ Product





[unit:mm]

■ Lighting Data



■ Dimensional drawing

L		
	L2	
.	L1	
4.	((
la Mi	list.	

L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1198.4	1205.6	1212.8	27.7

■ Specifications

Tuna	LED Tubo	Nominal beam angle (°)	> 160
Туре	LED Tube	Rated beam angle (°)	> 160
Nominal power consumption (W)	16.9	Operating temperature (℃)	-20~+50
Rated power consumption (W)	16.9	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	2,150	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	2,150	Color description	Daylight
Frequency (Hz)	50/60	Color temperature (K)	6500
Input current (mA)	82	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1200
Lumen Maintenance Factor	L70	Weight (g)	200
Warm-up time	Instant full light	Energy efficiency index	A++
Starting time (s)	0.1	Energy consumption (kWh/1000h)	17
On/Off cycles	50,000	Certification	CE, SIRIM

■ Application

- * Specifications are subject to change without notice
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	1308mm x 34mm x 34mm	1313mm x 185mm x 152mm
Gross Weight	287g	6.6kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- · compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- emits no UV



■ L-Tube Performer Range

	Product Code	Bar Code	Specification
	GU14H5016V8IEU	8806086251587	2100lm / 16.9W / 160D / 3000K / G13
	GU14H5016T8IEU	8806086251594	2150lm / 16.9W / 160D / 4000K / G13
4	GU14H5016R8IEU	8806086251600	2200lm / 16.9W / 160D / 5000K / G13
	GU14H5016P8IEU	8806086251808	2150lm / 16.9W / 160D / 6500K / G13

Samsung CCG Compatible L-Tube lamps are not for use with dimmers or dimming systems.

■ Ballast Compatibility

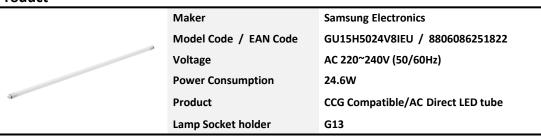
Model	Maker	Model Name
Performer 1200mm		L36TL4
	Helvar	L36A-K
		L36A-T
	KNOBEL	36-NG301
	Simens	VVG 5LZ 363
	Vossloh & Schwabe	L36I.342
	АВВ	VVG 36-120 CF30
		36-120 CF55
	TRIDONIC	EC 36/40 C302K
	TRIDONIC	EC 36-1 C501K

^{*} For CCG(magnetic ballast) type, conventional Starter has to be changed with L-Tube Starter



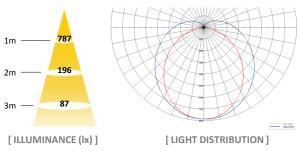
1500mm / 24.6W / G13 / 150° / 3000K

Product

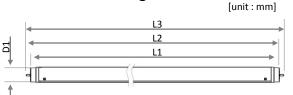




■ Lighting Data



Dimensional drawing



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1499.0	1506.2	1513.4	27.7

Specifications

_		Nominal beam angle (°)	> 150
Туре	LED Tube		> 150
Nominal power consumption (W)	24.6	Operating temperature (℃)	-20~+50
Rated power consumption (W)	24.6	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	3,000	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	3,000	Color description	Warm White
Frequency (Hz)	50/60	Color temperature (K)	3000
Input current (mA)	113	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1500
Lumen Maintenance Factor	L70	Weight (g)	390
Warm-up time	Instant full light	Energy efficiency index	A+
Starting time (s)	0.1	Energy consumption (kWh/1000h)	25
On/Off cycles	50,000	Certification	CE

Application

- * Specifications are subject to change without notice.
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application) Packaging Details

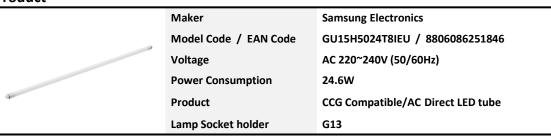
Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	1608mm x 34mm x 34mm	1613mm x 185mm x 152mm
Gross Weight	513g	11.3kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- · emits no UV



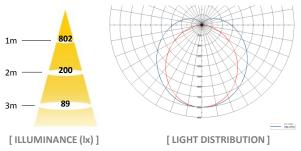
1500mm / 24.6W / G13 / 150° / 4000K

■ Product

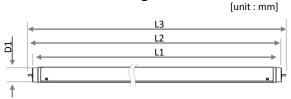




■ Lighting Data



■ Dimensional drawing



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1499.0	1506.2	1513.4	27.7

■ Specifications

		Nominal beam angle (°)	> 150
Туре	LED Tube	Rated beam angle (°)	> 150
		•	
Nominal power consumption (W)	24.6	Operating temperature ($^{\circ}$ C)	-20~+50
Rated power consumption (W)	24.6	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	3,100	Rated lamp life time (hrs)	50,000
Rated luminous flux (lm)	3,100	Color description	Neutral White
Frequency (Hz)	50/60	Color temperature (K)	4000
Input current (mA)	113	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1500
Lumen Maintenance Factor	L70	Weight (g)	390
Warm-up time	Instant full light	Energy efficiency index	A++
Starting time (s)	0.1	Energy consumption (kWh/1000h)	25
On/Off cycles	50,000	Certification	CE, RCM

Application

- * Specifications are subject to change without notice.
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

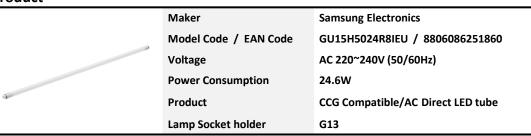
■ Packaging Details

Packaging Type(Std.Pkg.Q'ty)	Single Box (1pc)	Outer carton (20pc/box)
Dimensions (L×W×H)	1608mm x 34mm x 34mm	1613mm x 185mm x 152mm
Gross Weight	513g	11.3kg

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
- the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation.
- compatible with an extensive range of ballast (*please see recommended ballast list)
- Depending on compatible ballast, Energy consumption can be changed.
- · emits no UV

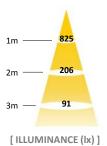
1500mm / 24.6W / G13 / 150° / 5000K

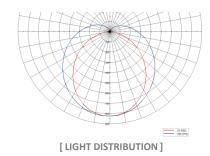
■ Product





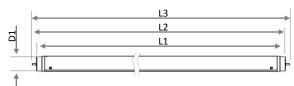
■ Lighting Data





■ Dimensional drawing

[unit : mm]



L1 (Nom)	L2 (Nom)	L3 (Nom)	D1 (Nom)
1499.0	1506.2	1513.4	27.7

■ Specifications

		Nominal beam angle (°)	> 150
Туре	LED Tube	Rated beam angle (°)	> 150
Nominal power consumption (W)	24.6	Operating temperature (℃)	-20~+50
Rated power consumption (W)	24.6	Nominal lamp life time (hrs)	50,000
Nominal luminous flux (lm)	3,200	Rated lamp life time (hrs)	50,000
Rated luminous flux (Im)	3,200	Color description	Cool White
Frequency (Hz)	50/60	Color temperature (K)	5000
Input current (mA)	113	CRI(Ra)	Min.80
Power factor	> 0.9	Diameter (mm)	Ф 27.7
THD (%)	≤ 20	Overall length (mm)	1500
Lumen Maintenance Factor	L70	Weight (g)	390
Warm-up time	Instant full light	Energy efficiency index	A++
Starting time (s)	0.1	Energy consumption (kWh/1000h)	25
On/Off cycles	50,000	Certification	CE

■ Application

- * Specifications are subject to change without notice.
- * Energy consumption is calculated based on AC direct type
- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

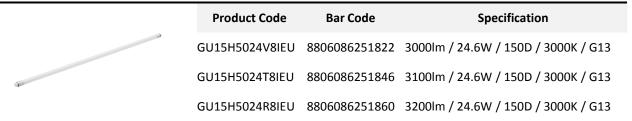
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■ L-Tube Performer Range



Samsung CCG Compatible L-Tube lamps are not for use with dimmers or dimming systems.

■ Ballast Compatibility

Model	Maker	Model Name
Performer 1500mm	Helvar	L58A-T230
	TRIDONIC	EC58 C502K
	Vossloh & Schwabe	L58I.116