

INTRODUCING:

SAMSUNG ELECTRONICS

LED Tube Technical data sheet

[2014 2H]

L-Tube (Essential) 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)



[1200mm]

E GU14H3015V8IEU

E GU14H3015T8IEU

E GU14H3015R8IEU

[1500mm]

E GU15H3020V8IEU

E GU15H3020T8IEU

E GU15H3020R8IEU



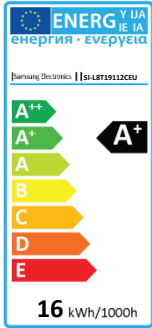
SAMSUNG ELECTRONICS LED Tube

1200mm / 15.5W / G13 / 160° / 3000K

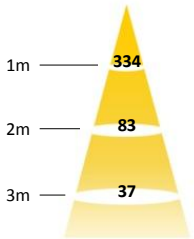
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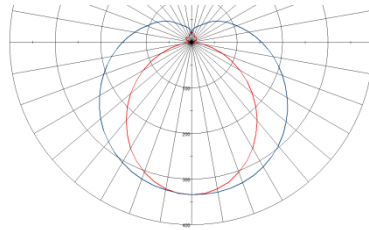
Maker	Samsung Electronics
Model Code / EAN Code	GU14H3015V81EU / 8806086251884
Voltage	AC 220~240V (50/60Hz)
Power Consumption	15.5W
Product	CCG Compatible/AC Direct LED tube
Lamp Socket holder	G13



Lighting Data

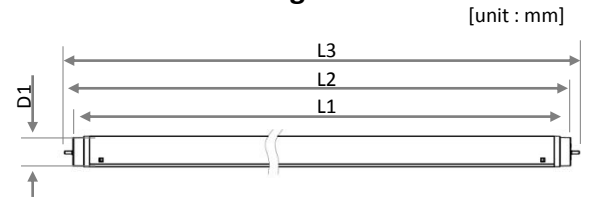


[ILLUMINANCE (lx)]



[LIGHT DISTRIBUTION]

Dimensional drawing



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

Specifications

Type	LED Tube	Nominal beam angle (°)	> 160
Nominal power consumption (W)	15.5	Rated beam angle (°)	> 160
Rated power consumption (W)	15.5	Operating temperature (°C)	-20~+50
Nominal luminous flux (lm)	1,500	Nominal lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,500	Rated lamp life time (hrs)	50,000
Frequency (Hz)	50/60	Color description	Warm White
Input current (mA)	78	Color temperature (K)	3000
Power factor	> 0.9	CRI(Ra)	Min.80
THD (%)	≤ 20	Diameter (mm)	Φ 27.7
Lumen Maintenance Factor	L70	Overall length (mm)	1200
Warm-up time	Instant full light	Weight (g)	200
Starting time (s)	0.1	Energy efficiency index	A+
On/Off cycles	50,000	Energy consumption (kWh/1000h)	16
		Certification	CE

* Specifications are subject to change without notice

* Energy consumption is calculated based on AC direct type

Application

- 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

Customer Benefits

- 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

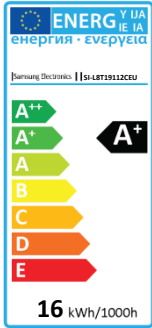
SAMSUNG ELECTRONICS LED Tube

1200mm / 15.5W / G13 / 160° / 4000K

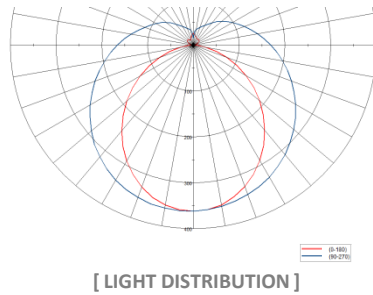
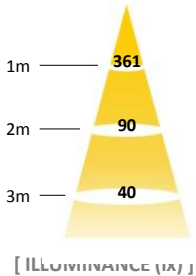
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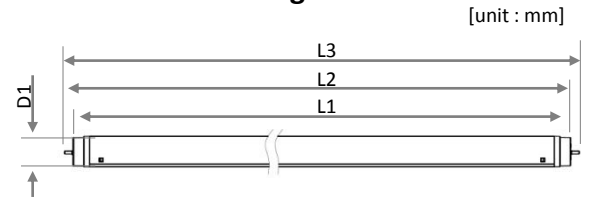
Maker	Samsung Electronics
Model Code / EAN Code	GU14H3015T8IEU / 8806086251907
Voltage	AC 220~240V (50/60Hz)
Power Consumption	15.5W
Product	CCG Compatible/AC Direct LED tube
Lamp Socket holder	G13



Lighting Data



Dimensional drawing



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

Specifications

Type	LED Tube	Nominal beam angle (°)	> 160
Nominal power consumption (W)	15.5	Rated beam angle (°)	> 160
Rated power consumption (W)	15.5	Operating temperature (°C)	-20~+50
Nominal luminous flux (lm)	1,550	Nominal lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,550	Rated lamp life time (hrs)	50,000
Frequency (Hz)	50/60	Color description	Neutral White
Input current (mA)	78	Color temperature (K)	4000
Power factor	> 0.9	CRI(Ra)	Min.80
THD (%)	≤ 20	Diameter (mm)	Φ 27.7
Lumen Maintenance Factor	L70	Overall length (mm)	1200
Warm-up time	Instant full light	Weight (g)	200
Starting time (s)	0.1	Energy efficiency index	A+
On/Off cycles	50,000	Energy consumption (kWh/1000h)	16
		Certification	CE, RCM

* Specifications are subject to change without notice
 * Energy consumption is calculated based on AC direct type

Application

- 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

Customer Benefits

- 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

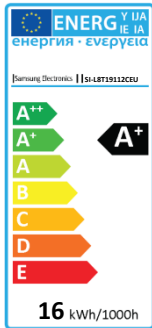
SAMSUNG ELECTRONICS LED Tube

1200mm / 15.5W / G13 / 160° / 5000K

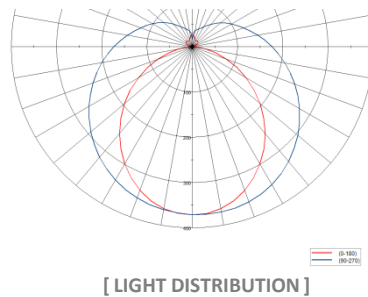
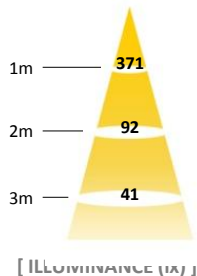
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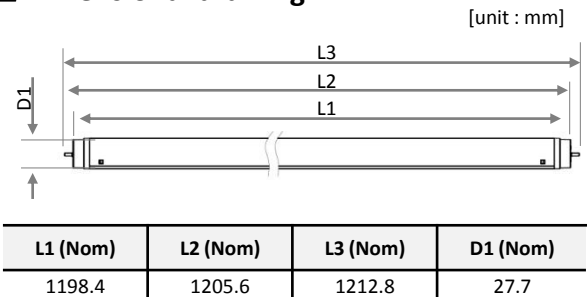
Maker	Samsung Electronics
Model Code / EAN Code	GU14H3015R8IEU / 8806086251891
Voltage	AC 220~240V (50/60Hz)
Power Consumption	15.5W
Product	CCG Compatible/AC Direct LED tube
Lamp Socket holder	G13



Lighting Data



Dimensional drawing



Specifications

Type	LED Tube	Nominal beam angle (°)	> 160
Nominal power consumption (W)	15.5	Rated beam angle (°)	> 160
Rated power consumption (W)	15.5	Operating temperature (°C)	-20~+50
Nominal luminous flux (lm)	1,650	Nominal lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,650	Rated lamp life time (hrs)	50,000
Frequency (Hz)	50/60	Color description	Cool White
Input current (mA)	78	Color temperature (K)	5000
Power factor	> 0.9	CRI(Ra)	Min.80
THD (%)	≤ 20	Diameter (mm)	Φ 27.7
Lumen Maintenance Factor	L70	Overall length (mm)	1200
Warm-up time	Instant full light	Weight (g)	200
Starting time (s)	0.1	Energy efficiency index	A+
On/Off cycles	50,000	Energy consumption (kWh/1000h)	16
		Certification	CE

* Specifications are subject to change without notice

* Energy consumption is calculated based on AC direct type

Application

- 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

Customer Benefits

- 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 Essential Range



Product Code	Bar Code	Specification
GU14H3015V8IEU	8806086251884	1500lm / 15.5W / 160D / 3000K / G13
GU14H3015T8IEU	8806086251907	1550lm / 15.5W / 160D / 4000K / G13
GU14H3015R8IEU	8806086251891	1650lm / 15.5W / 160D / 5000K / G13

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

■ Ballast Compatibility

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

SAMSUNG ELECTRONICS LED Tube

1500mm / 20.0W / G13 / 150° / 3000K

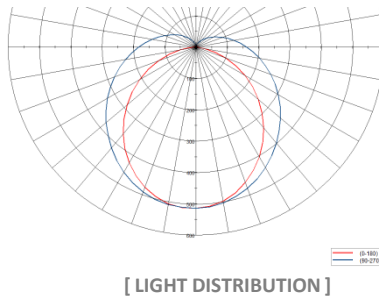
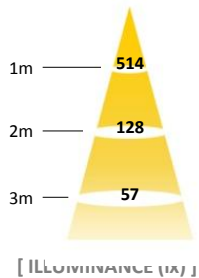
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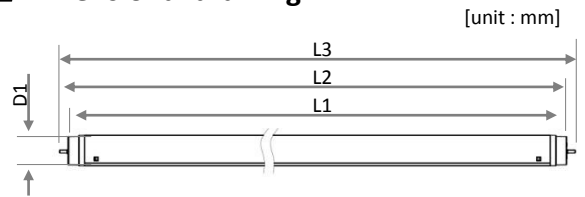
Maker	Samsung Electronics
Model Code / EAN Code	GU15H3020V8IEU / 8806086251877
Voltage	AC 220~240V (50/60Hz)
Power Consumption	20.0W
Product	CCG Compatible/AC Direct LED tube
Lamp Socket holder	G13



Lighting Data



Dimensional drawing



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

Specifications

Type	LED Tube	Nominal beam angle (°)	> 150
Nominal power consumption (W)	20.0	Rated beam angle (°)	> 150
Rated power consumption (W)	20.0	Operating temperature (°C)	-20~+50
Nominal luminous flux (lm)	1,950	Nominal lamp life time (hrs)	50,000
Rated luminous flux (lm)	1,950	Rated lamp life time (hrs)	50,000
Frequency (Hz)	50/60	Color description	Warm White
Input current (mA)	92	Color temperature (K)	3000
Power factor	> 0.9	CRI(Ra)	Min.80
THD (%)	≤ 20	Diameter (mm)	Φ 27.7
Lumen Maintenance Factor	L70	Overall length (mm)	1500
Warm-up time	Instant full light	Weight (g)	390
Starting time (s)	0.1	Energy efficiency index	A+
On/Off cycles	50,000	Energy consumption (kWh/1000h)	20
		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

Customer Benefits

- more than 50,000 hours average operating life (5 times longer than fluorescent lamps)
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- compatible with an extensive range of ballast (*please see recommended ballast list)
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- emits no UV

SAMSUNG ELECTRONICS LED Tube

1500mm / 20.0W / G13 / 150° / 4000K

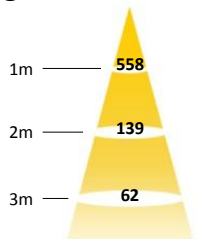
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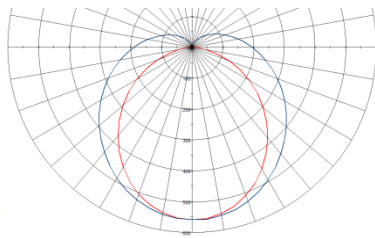
Maker	Samsung Electronics
Model Code / EAN Code	GU15H3020T8IEU / 8806086251853
Voltage	AC 220~240V (50/60Hz)
Power Consumption	20.0W
Product	CCG Compatible/AC Direct LED tube
Lamp Socket holder	G13



Lighting Data



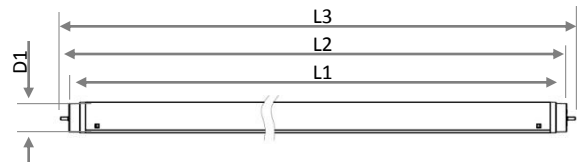
[ILLUMINANCE (lx)]



[LIGHT DISTRIBUTION]

Dimensional drawing

[unit : mm]



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

Specifications

Type	LED Tube	Nominal beam angle (°)	> 150
Nominal power consumption (W)	20.0	Rated beam angle (°)	> 150
Rated power consumption (W)	20.0	Operating temperature (°C)	-20~+50
Nominal luminous flux (lm)	2,000	Nominal lamp life time (hrs)	50,000
Rated luminous flux (lm)	2,000	Rated lamp life time (hrs)	50,000
Frequency (Hz)	50/60	Color description	Neutral White
Input current (mA)	92	Color temperature (K)	4000
Power factor	> 0.9	CRI(Ra)	Min.80
THD (%)	≤ 20	Diameter (mm)	Φ 27.7
Lumen Maintenance Factor	L70	Overall length (mm)	1500
Warm-up time	Instant full light	Weight (g)	390
Starting time (s)	0.1	Energy efficiency index	A+
On/Off cycles	50,000	Energy consumption (kWh/1000h)	20
		Certification	CE, RCM

* Specifications are subject to change without notice.

* Energy consumption is calculated based on AC direct type

Application

- 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

Customer Benefits

- 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

SAMSUNG ELECTRONICS LED Tube

1500mm / 20.0W / G13 / 150° / 5000K

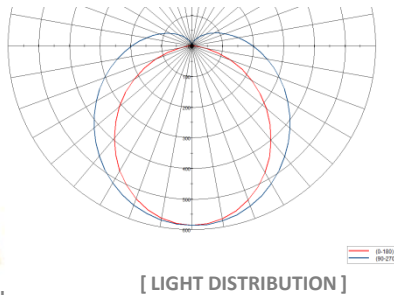
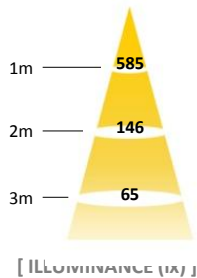
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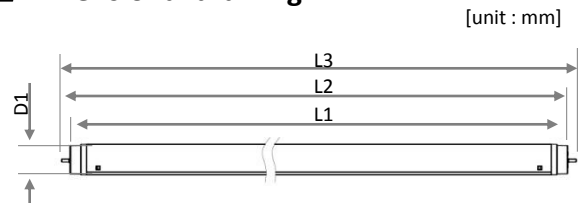
Maker	Samsung Electronics
Model Code / EAN Code	GU15H3020R8IEU / 8806086251839
Voltage	AC 220~240V (50/60Hz)
Power Consumption	20.0W
Product	CCG Compatible/AC Direct LED tube
Lamp Socket holder	G13



Lighting Data



Dimensional drawing



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

Specifications

Type	LED Tube	Nominal beam angle (°)	> 150
Nominal power consumption (W)	20.0	Rated beam angle (°)	> 150
Rated power consumption (W)	20.0	Operating temperature (°C)	-20~+50
Nominal luminous flux (lm)	2,100	Nominal lamp life time (hrs)	50,000
Rated luminous flux (lm)	2,100	Rated lamp life time (hrs)	50,000
Frequency (Hz)	50/60	Color description	Cool White
Input current (mA)	92	Color temperature (K)	5000
Power factor	> 0.9	CRI(Ra)	Min.80
THD (%)	≤ 20	Diameter (mm)	Φ 27.7
Lumen Maintenance Factor	L70	Overall length (mm)	1500
Warm-up time	Instant full light	Weight (g)	390
Starting time (s)	0.1	Energy efficiency index	A+
On/Off cycles	50,000	Energy consumption (kWh/1000h)	20
		Certification	CE

Application

- Offices, Classrooms, Parking lots, Warehouses, Signage, Cove lighting (suitable for general lighting application)

* Specifications are subject to change without notice.

* Energy consumption is calculated based on AC direct type

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

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- 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 Essential Range



Product Code	Bar Code	Specification
GU15H3020V8IEU	8806086251877	1950lm / 20.0W / 150D / 3000K / G13
GU15H3020T8IEU	8806086251853	2000lm / 20.0W / 150D / 4000K / G13
GU15H3020R8IEU	8806086251839	2100lm / 20.0W / 150D / 5000K / G13

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

■ Ballast Compatibility

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