



Warm **Natural** **Cool**

- Clean
- Energy Efficient
- Earth Friendly
- Affordable Lighting



5W LED BULB

MATRIX
L I G H T I N G



Specifications

Color Availability: Warm / Natural / Cool

Color Temp. (K): Warm - 2,800

Natural - 4,000

Cool - 5,600

Lumen (lm): Warm - 300

Natural - 360

Cool - 360

Nominal Life Time: 30,000 hrs.

Beam Spread: 270° Wide

Input: 110V / 220V

Watt: 5W

CRI: > 80

Lamp Head: E26 / E27 / B22

Switching Cycle: > 20,000 times

Working Freq.(Hz): 50-60

Op.Temp. (°C): -20 - 45

Storage Temp. (°C): -40 - 85

Lumen Maintenance Factor at the End of the nominal Life: L₇₀

Warm Up Time: Instant Full Light

LED Modules: Epistar

Approval: CE / UL



Pending for Energy Saving Trust (EST) and Energy Star Approvals

* All Product Specs are being tested and verified by KEMA



VIRIBRIGHT 5W LED BULB

VIRIBRIGHT LED Bulbs, CFLs and Incandescent Bulbs Comparison Table

	VIRIBRIGHT LED Bulbs	CFLs	Incandescent Bulbs
Power Consumption:	5W	7W	40W
Labeled Lifespan:	+20,000 hr.	5,000 hr.	1,000 hr.
Actual Lifespan under Daily Operation:	+20,000 hr.	2,500 hr.	500 hr.
Replacement Frequency over 18,000hr.:	1	8	40
Luminous Flux (Lumen):	330	330	400
Luminous Efficacy:	> 60 Lumen /W	47 Lumen /W	10 Lumen /W
Durability:	Plastic - Durable	Glass - Fragile	Glass - Fragile
ON/OFF Cycling Effect:	No effect	Shorten lifespan	Shorten lifespan
Heat Emission:	Low	Medium	High
Body Temperature:	50°C - 70°C	> 100°C	> 150°C
Energy Efficient:	Excellent	Good	Bad
Cooling & Circuit Optimization:	Yes	No	No
Maintenance, Disposal and Labor Costs:	Low	High	High
Flickering Effect:	No	Yes	No
Instantly Lights Up:	Yes	No	Yes
Impact Resistance:	Good	Poor	Poor
Hazardous Material:	No	Yes	No
UV Radiation:	No	Yes	No
Recyclability:	Yes	No	No
Earth Friendliness:	Yes	No	No
Color:	Warm / Natural / Cool	Warm / Natural / Cool	Warm



VIRIBRIGHT
LED LIGHT BULBS

VIRIBRIGHT 5W LED BULB

Products

Lamp Head	Item No.	Color	Standard	Voltage
E26	#73076	Warm White	UL / Energy Star	110V
	#73127	Natural White	UL / Energy Star	110V
	#73077	Cool White	UL / Energy Star	110V
	#73098	Warm White	UL	110V
	#73113	Natural White	UL	110V
	#73099	Cool White	UL	110V
E27	#73078	Warm White	CE	220V
	#73109	Natural White	CE	220V
	#73079	Cool White	CE	220V
	#73110	Warm White	CE / EST	220V
	#73111	Natural White	CE / EST	220V
	#73112	Cool White	CE / EST	220V
B22	#73096	Warm White	CE	220V
	#73123	Natural White	CE	220V
	#73097	Cool White	CE	220V

Lamp Heads:



E26



E27



B22

VIRIBRIGHT 5W LED BULB

Light Source Test Report:



CIE Color Parameters:

Chromaticity Coordinate:

	Warm	Natural	Cool
X=	0.4546	0.3732	0.3383
Y=	0.4095	0.3587	0.3425
u'=	0.2596	0.2276	0.2103
v'=	0.5261	0.4923	0.4792
duv=	4.92e-005	-6.52e-003	-1.81e-003

CCT: T_c=

2766K	4071K	5247K
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Prep Wavelength: λ_d=

583.9nm	583.7nm	570.8nm
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Purity=

59.4%	19.6%	4.3%
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Peak Wavelength: λ_p=

605nm	450nm	450nm
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Half Width: Δλ_p=

139.5nm	25.0nm	25.1nm
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Ratio:

R	24.0%	18.5%	15.6%
G	74.1%	78.1%	80.0%
B	1.8%	3.5%	4.4%

Average Wave:

601nm	573nm	555nm
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Rendering Index: Ra=

80.6	83.2	83.3
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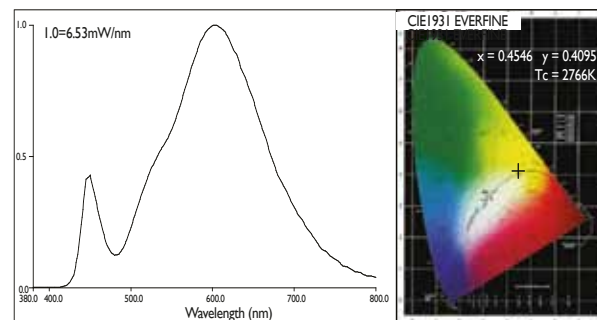
Photo Parameters:

Flux: Φ=	317.56(lm)	336.83(lm)	378.16(lm)
Luminous Efficacy:	63.38(lm/w)	68.46(lm/w)	74.44(lm/w)
Luminous Power: P=	1.053(w)	1.094(w)	1.224(w)

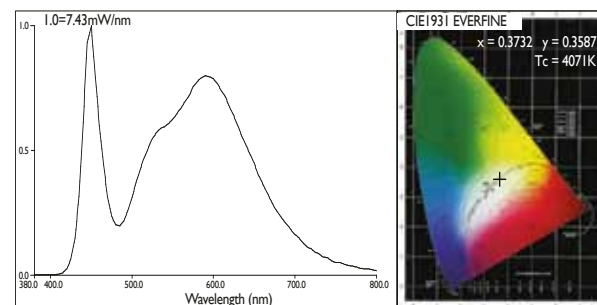
Electrical Parameters:

U=	220.2V	220.2V	220.2V
I=	0.08200A	0.07800A	0.08100A
P=	5.01W	4.92W	5.08W
PF=	0.275	0.283	0.284

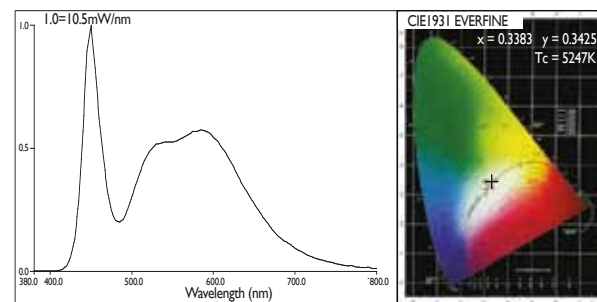
Warm White:



Natural White:

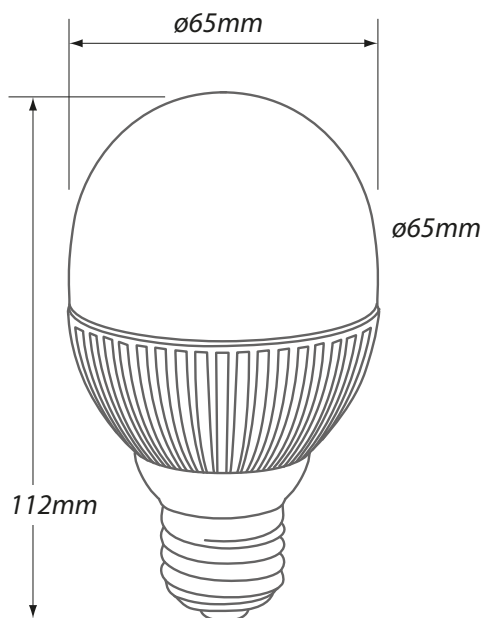


Cool White:

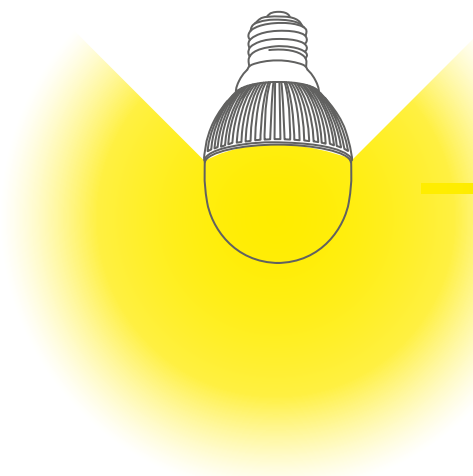


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LED LIGHT BULBS

Light Distribution & Rating:



Dimensions



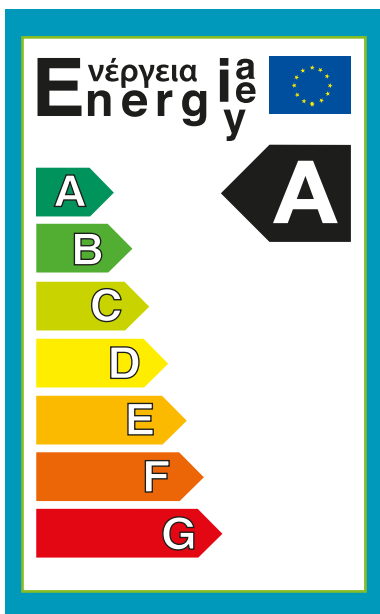
*Useful Light Output
over 270°*

*Widespread luminous
intensity in different
directions.*

Polar Curve:



*Energy Efficiency
Rating A (EER A)*



VIRIBRIGHT LED BULBS

- *Clean*
- *Energy Efficient*
- *Earth Friendly*
- *Affordable Lighting*

MATRIX LIGHTING LIMITED

(A subsidiary of Matrix Holdings Limited)

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