



STAR ALLIANCE TECHNOLOGIES Home and Building Applications



FEATURES:

- POWER LED 3.0 Watt
- Base / Socket: MR16
- More than 40.000 hours
- Low heat, no UV or IR light radiation
- Homogeneous flood illumination, no halo-ring effect
- 4 Watt version can achieve directional light output equal to 25 Watt halogen lamp
- Consume 80% less power than halogen lamp
 - Reverse polarity protection
 - Safety Standard CE and ROHS
- 1 Year limited warranty look at page no. 7
- Works with 12V AC / DC lighting systems

Applications:

- Landscape Accent / Spot lighting
- Display Case Accent
- Artwork Lighting
- Mood Lighting / General lighting
- Amusement Park Accent

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APPD:	Schumi				Sheet No. 1 from 7	Part No.:		1210024			



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Product Specifications

Light Source:	1 x 3 Watt LED
Optics:	Optical grade PC lens
Lens Diameter:	28 mm
Beam Angle:	45° (Wide Spot)
Min Beam Distance:	15 cm (6 inches)
Rendering Index:	> 70 (for cool white color)
Total Length:	53.4 mm (including pins)
Weight:	38 g
Heatsink	Molded aluminum with chrome finish, 5 cm (2") diameter
Base:	GX5.3 pins
Dimmability:	not dimmable

Environmental Specifications

Temperature Range:	Ambient: -20°C to 40°C, Surface of Lamp 60°C to 70°C
Humidity Range:	0 to 95% non-condensing humidity

Electrical Specifications

Voltage Requirement:	12V AC or DC
Power Consumption:	≤ 1 W
Power Factor:	Low voltage magnetic or switching power supply to provide 12V AC or 12V DC

**DO NOT CONNECT LAMP TO
ELECTRONIC TRANSFORMER**

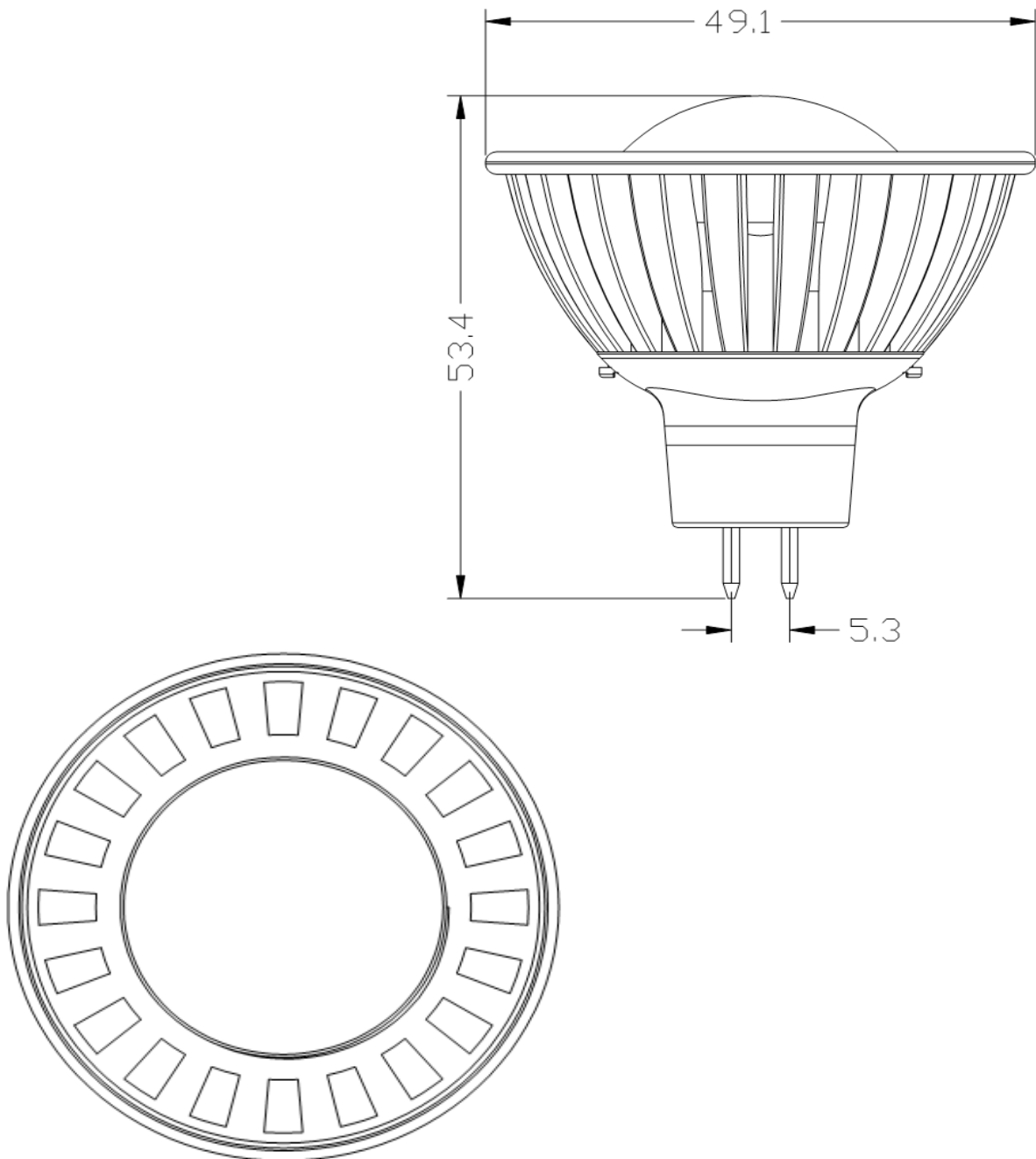
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Technical Drawing (mm)



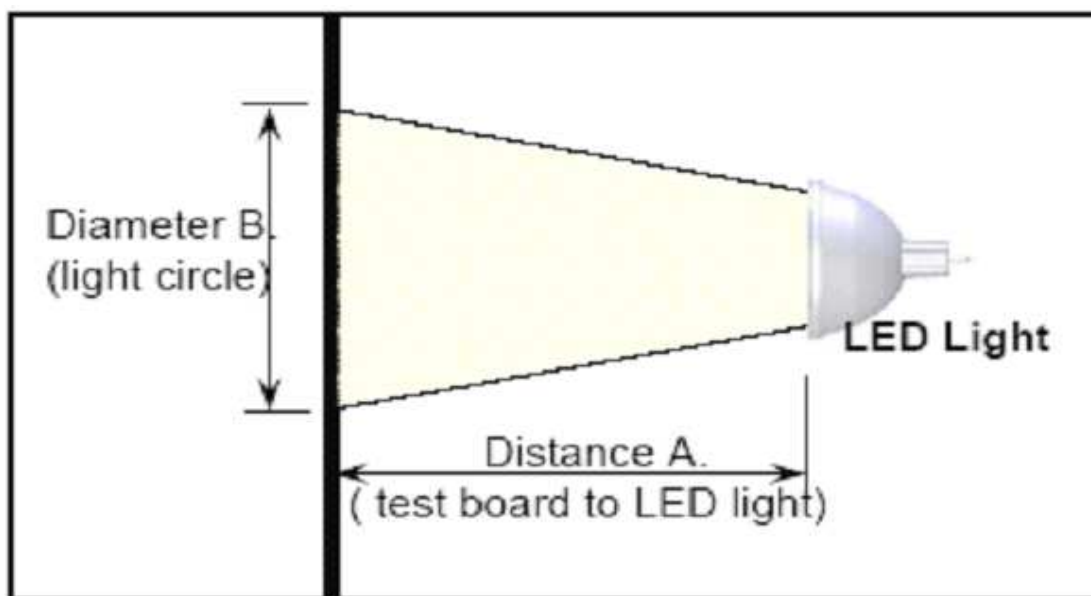
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Illumination Characteristics (T = 25°C)



Distance		1W Typical Illuminanced Measured at Center of Beam (Lux)					
Dist A (cm)	Dia. B (cm)	W	C	R	Y	B	G
30	28	750	900	780	850	35	1,025
50	45	290	280	300	325	15	380
100	86	77	100	80	88	8	110
150	128	38	48	40	43	3.5	48
200	160	12	28	30	26	3	27

W = Warm White
C = Cool White
R = Red
Y = Yellow
B = Blue
G = Green

The center beam lux is measured with digital Lux Meter (Model TES-1334-A)

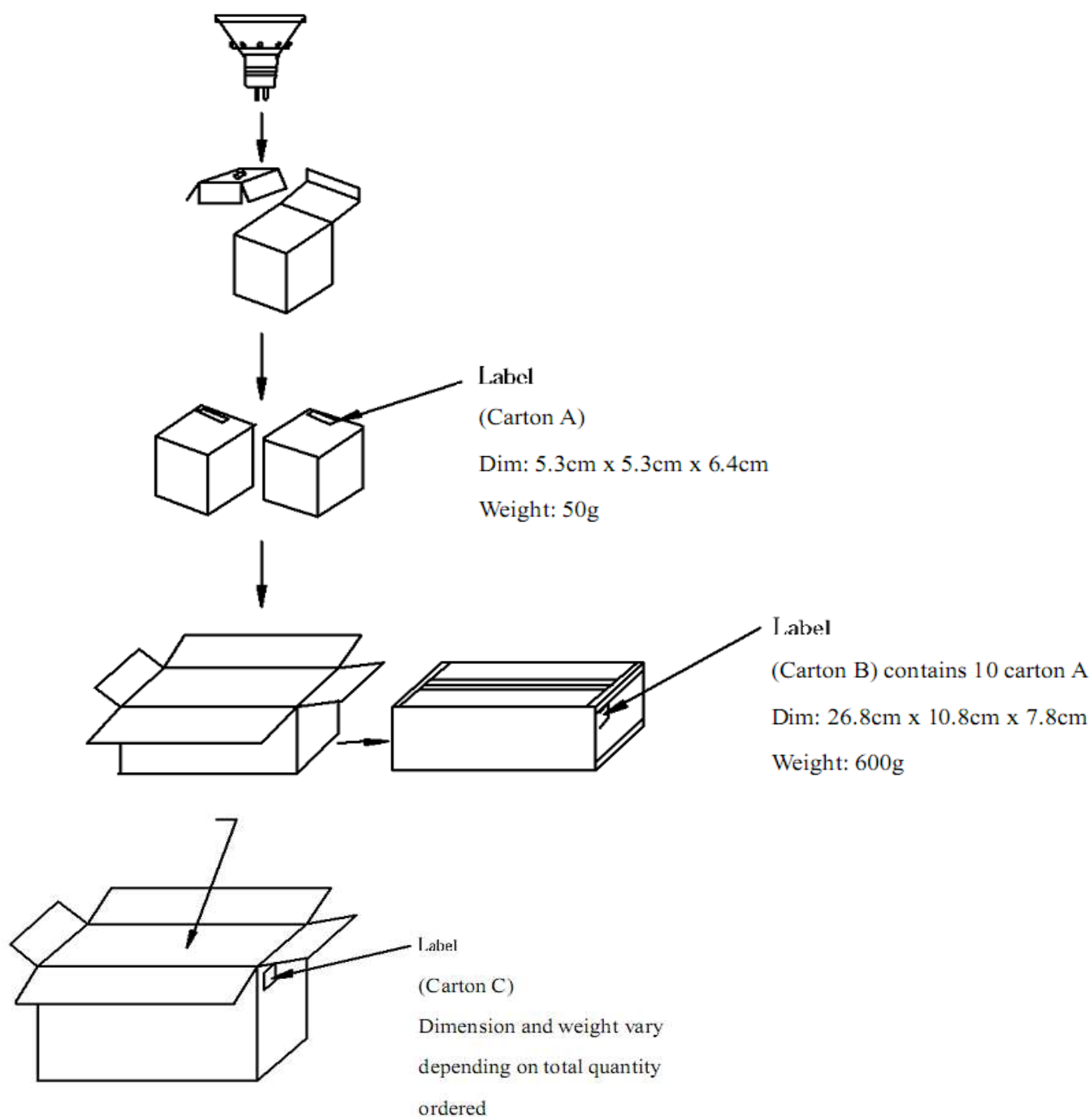
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Packing Specifications



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Ordering Informations

Serie	Power	Color Code	Beam Shape	Voltage	Base	Housing
1210024	3	W	S	A	16	C
	3 = 3 Watt	W = Warm C = Cool R = Red Y = Yellow B = Blue G = Green	S = Wide Spot (45°)	A = 12 V AC / DC	MR16	C = Chrome B = Black Anodize

Product Informations

Color	CCT (K / nm)	Operating Voltage (V AC / DC)	LED Power (W)	Typical Luminous Flux (lm)	Beam Angle (°)
Warm White	2800 ~ 3800	12	1 x 3	45	45±2
Cool White	5000 ~ 7000			75	
Red	625			55	
Yellow	595			55	
Blue	470			20	
Green	530			55	

Typical Electrical Characteristics at T=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Input Voltage (AC)	V _{AC}	10	12	14	V
Input Voltage (DC)	V _{DC}	9	10	12	V
LED Forward Current	I _f	----	500	---	mA
Estimated Life Time		----	40,000	----	Hours
Optimized Body Temperature 3,6	T	----	55	60	°C

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