



**WINCOM TECH**  
盈达顺科技

# Wincom Tech CO., LTD.

**The Light Specialist**

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PART NO. : **WL-MR16-3W-38-PW-001**

Customer : \_\_\_\_\_

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ACCEPTED BY: .....

PROPOSED BY: .....

## RECORD OF REVISION

DATE	PAGE	SUMMARY
2010-10-13	---	New issue

### ***3.Features***

- Light source: 3 x 1W high efficiency LED
- CCT(TYPE): Pure White (6300K)
- LED source life: More than 50,000 hours
- Low heat, Body Temperature 55℃ @Environmental T=25℃
- No UV or IR light radiation
- Sleek designed heat fins with excellent thermal efficiency
- 3W MR16 can achieve directional light output equal to 30W halogen lamp yet consume 80% less power
- Reverse polarity protection
- Safety Standard: RoHS
- Works with 12V AC/DC lighting systems



### ***4. Typical Applications***

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

## 5. Mechanical spec

<i>I T E M</i>	<i>Specifications</i>	<i>COMMENT</i>
Outer Dimension	Φ50mm × 54mm	---
Housing material	Aluminum with silver paint finish	---
Base type	GX5.3 Compatible base	---
Weight	About 38g	---

## 6. Environmental ratings

<i>I T E M</i>	<i>OPERATING</i>		<i>STORAGE</i>		<i>COMMENT</i>
	<i>MIN.</i>	<i>MAX.</i>	<i>MIN.</i>	<i>MAX.</i>	
AMBIENT TEMPERATURE	-20℃	40℃	-30℃	80℃	-----
HUMIDITY	0~90%		0~90%		NON CONDENSATION

## 7. Electrical characteristics

Ta = 25℃, Humidity: 50%Rh non condensed

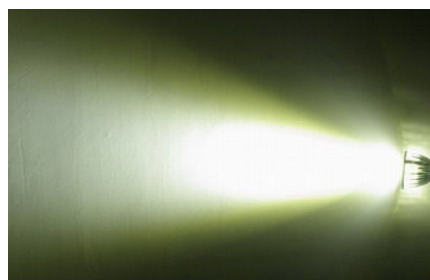
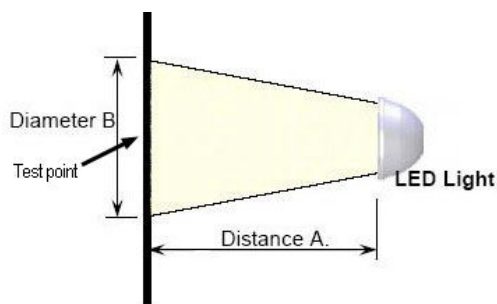
<i>I T E M</i>	<i>SYMBOL</i>	<i>CONDITION</i>	<i>MIN.</i>	<i>TYP.</i>	<i>MAX.</i>	<i>UNIT</i>
Power supply voltage for circuit	U	AC/DC	11.3	12	16	V
Operation current	I	12V DC	220	250	280	mA
Typical Power Consumption	P	12V AC/DC	2.5	3	3.3	W
Circuit Efficiency	η	12V DC	---	91	---	%

## 8. Optical characteristics

Ta = 25℃, Humidity: 50%Rh non condensed

<i>I T E M</i>	<i>SYMBOL</i>	<i>CONDITION</i>	<i>MIN.</i>	<i>TYP.</i>	<i>MAX.</i>	<i>UNIT</i>
Beam Angle Flood Light	θ	---	35	38	40	deg.
Luminous Flux	Φ	P=3W	200	240	330	lm
CRI	---	P=3W	70	75	---	---
CCT	---	P=3W	5800	6300	6800	K
Center Luminance	NOTE1	P=3W,D.A=1m	520	611	700	LUX
B/A	NOTE1	θ=38°	---	0.69	---	---

NOTE1:



## 9. Luminance Distribution:

Unit:LUX

	1	2	3	4	5	6	7	8	9	10	11
1	---	---	---	---	37	45	37	---	---	---	---
2	---	---	---	---	65	90	70	---	---	---	---
3	---	---	---	---	200	231	195	---	---	---	---
4	---	---	---	---	370	430	360	---	---	---	---
5	32	65	192	368	516	570	510	358	186	67	35
6	38	83	228	411	555	611	556	418	224	86	39
7	33	67	190	364	517	550	495	356	177	66	34
8	---	---	---	---	368	427	350	---	---	---	---
9	---	---	---	---	185	214	190	---	---	---	---
10	---	---	---	---	63	80	65	---	---	---	---
11	---	---	---	---	35	43	33	---	---	---	---

NOTE:

The test sample was positioned 1.0m perpendicular to horizontal surface, measurements were taken on every 10cm×10cm spot, P=3W.

Tolerance is 10% unless otherwise noted.

## 10. Outline dimension

