



QM lighting

QM-07014

G70 7×1-1W



Add: 3F, HuShanRoad, No. 13, Daguangkan Industrial Zone, Bantian, LonggangDistrict, Shenzhen,

Guangdong, China

Tel: 86-755-84714721 Fax: 86-755-84714707

E-mail: qm@qmlighting.com

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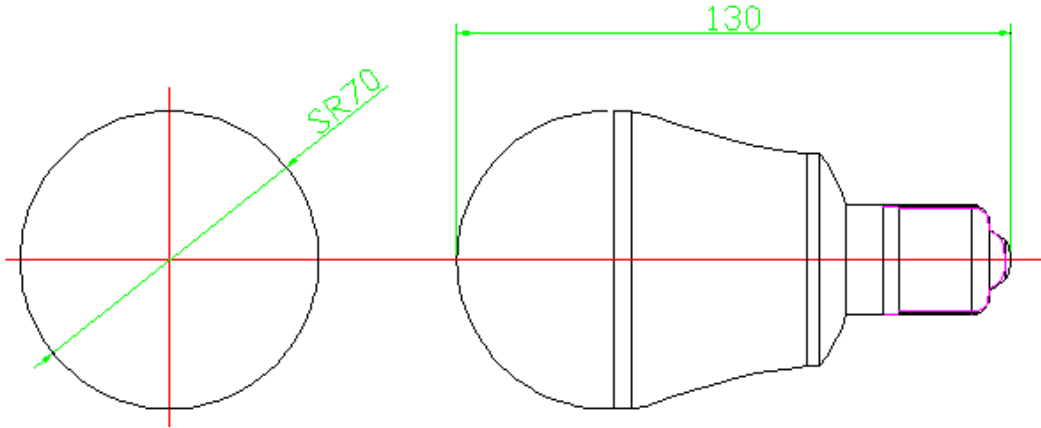
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Dimensions



Unit: mm

Tolerance: ±2.5 mm

Specifications

- BULB TYPE: G70 7X1W
- BASE TYPE: E27
- INPUT VOLTAGE: 85--260V AC with reversed polarity protect
- INPUT POWER: 7W
- OUTPUT POWER: 6W
- TOTAL LENGTH: 130mm
- BEAM ANGLE: 30degrees
- REFLECTOR EFFICIENCY: 85%
- LIGHT SOURCE: 7X1W high power LED
- LED OUTPUT CURRENT: 320mA
- BODY TEMPERATURE: <55°C
- LED WORKING TEMPERATURE: -20°C ~ 50°C
- FULL RANGE OF COLORS: cool white, warm white, blue, green ,red,yellow ,RGB
- NET WEIGHT: 225g
- ALUMINIUM HOUSING
- NO UV OR IR RADIATION
- SAFETY ASSURANCE: CE&RoHS

Illuminance and Beam Angles

part no.	LED Brand	Color	wavelength/CCT (nm/K)	Luminous Flux (LM)	Power	Color-rendering index	Light Effect (lm/W)
QM-07014-001	NICHIA	cool white	5000-7000K	519.4	6.8W	70 ~ 75	76.1
QM-07014-002		Nature white	3500-5000K	362.0	7.0W	80 ~ 85	51.7
QM-07014-003		warm white	2700-3500K	289.2	5.5W	80 ~ 85	52.9

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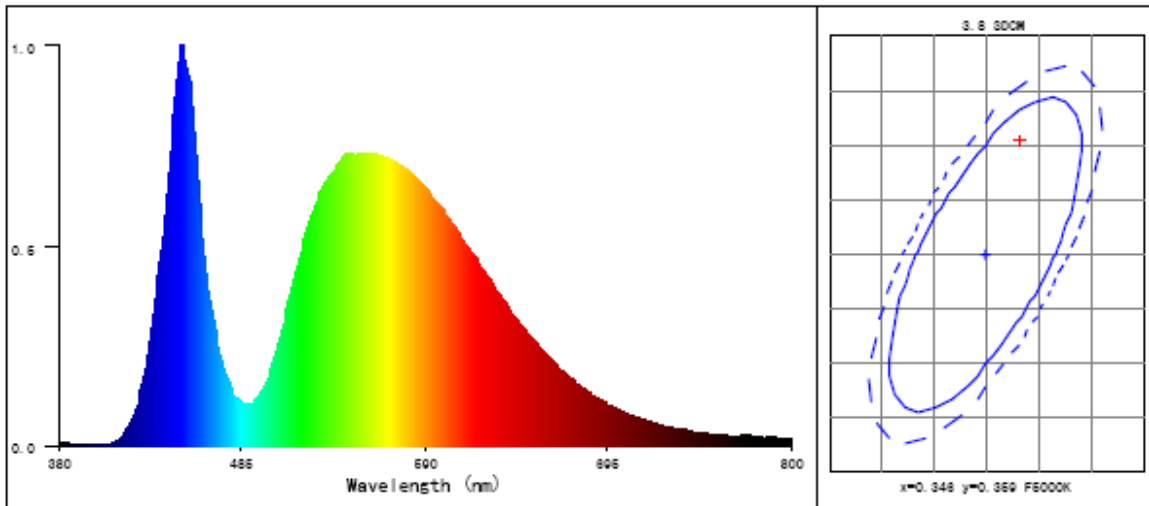


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cool white

CIE Parameter:

Coordinate: x=0.3493, y=0.3695	CCT: Tc=4915 K	Purity=15.7%		
u=0.2074, v=0.3292	Main Wave=568.7nm	Peak Wave=450.0nm		
Half Width=22.8nm	Red Ratio=15.0%	Chromatism SDCM=3.8		
Color rendering property :Ra=68.6				
R1=65	R2=74	R3=78	R4=68	R5=64
R6=62	R7=82	R8=56	R9=-35	R10=36
R11=60	R12=28	R13=66	R14=88	R15=61



Other parameters:

Flux: $\Phi=519.4$ Lm	Efficiency: Effi=76.1 Lm/W	Stability: %=1.7 %	THD= 0.0%
Voltage: U=100.1 V	Current: I=0.069 A	Power: P=6.8 W	Power factor: PF=0.992

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warm white

CIE Parameter:

Coordinate: $x=0.4390, y=0.4073$

CCT: $T_c=2992$ K

Purity=54.0%

$u=0.2505, v=0.3486$

Main Wave=582.5nm

Peak Wave=605.0nm

Half Width=151.4nm

Red Ratio=24.3%

Chromaticity SDCM=1.1

Color rendering property : $R_a=80.4$

R1=79

R2=85

R3=89

R4=80

R5=77

R6=78

R7=87

R8=67

R9=20

R10=64

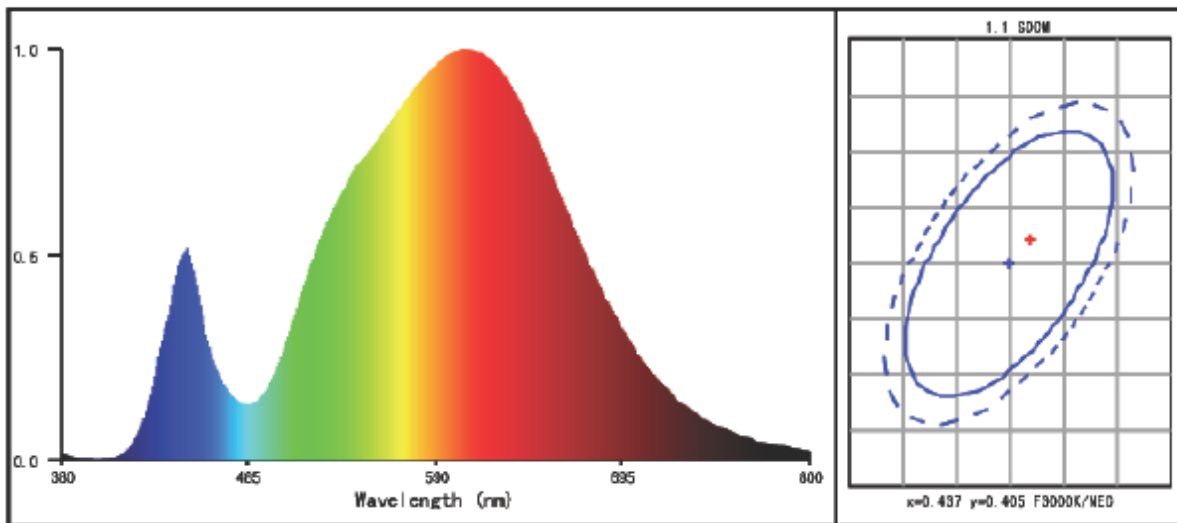
R11=75

R12=55

R13=80

R14=93

R15=76



Other parameters:

Flux: $\Phi=362.0$ Lm

Efficiency: $Eff_i=51.7$ Lm/W

Stability: $\%=-0.3$ %

THD= 0.0%

Voltage: $U=100.2$ V

Current: $I=0.070$ A

Power: $P=7.0$ W

Power factor: $PF=0.993$

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180° cool white

Photometric Results

Lumens 427.78 lm

Efficiency 81.64 %

Central Intensity: 110.100 cd

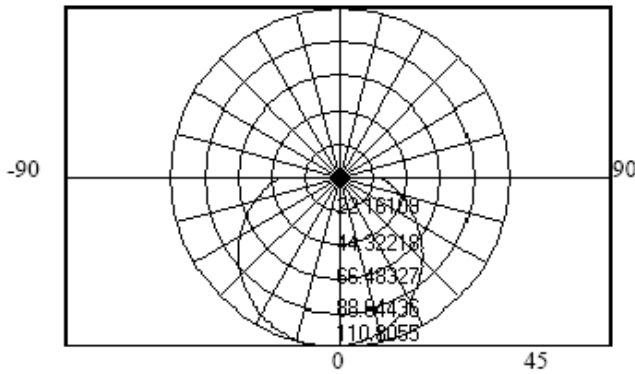
Maximum Intensity: 110.800 cd

Angle of maximum intensity: C: 0.0 G: 3.6

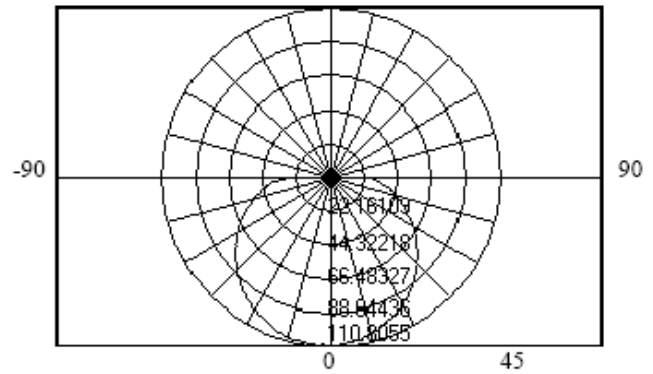
Half Peak Side Left: -75.6 Right: 63.0

Beam Angle(10%): Left: -90.0 Right: 90.0

Light Distribution Curve C0/C180



Light Distribution Curve C90/C270



H[m]	Diameter[m]	Illuminance[lx]
0.60	2.71	243.5
1.20	5.43	60.9
1.80	8.14	27.1
2.40	10.86	15.2
3.00	13.57	9.7

H[m]	Diameter[m]	Illuminance[lx]
0.60	2.71	243.5
1.20	5.43	60.9
1.80	8.14	27.1
2.40	10.86	15.2
3.00	13.57	9.7

Half peak angle: 2 x 66.2° C0-C180

Half peak angle: 2 x 66.2° C90-C270

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180° warm white

Photometric Results

Lumens 313.51 lm

Efficiency 87.09 %

Central Intensity: 79.000 cd

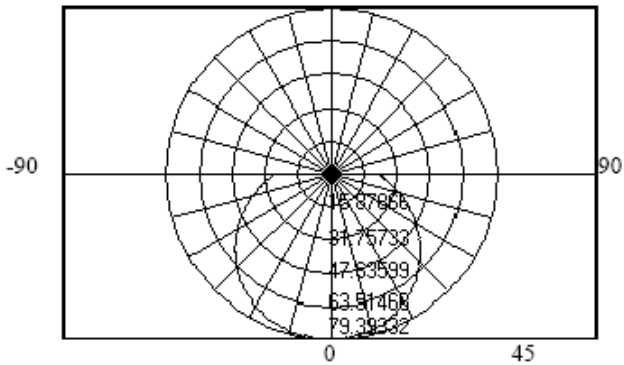
Maximum Intensity: 79.400 cd

Angle of maximum intensity: C: 0.0 G: 0.9

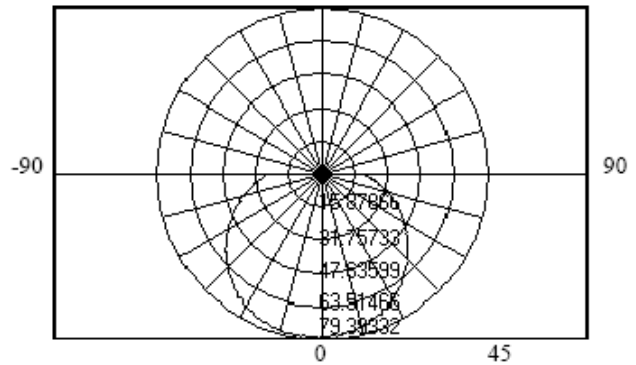
Half Peak Side Left: -73.8 Right: 67.5

Beam Angle(10%): Left: -90.0 Right: 90.0

Light Distribution Curve C0/C180



Light Distribution Curve C90/C270



H[m]	Diameter[m]	Illuminance[lx]
0.60	3.42	219.6
1.20	6.83	54.9
1.80	10.25	24.4
2.40	13.67	13.7
3.00	17.09	8.8

Half peak angle: 2 x 70.7°@ C0-C180

H[m]	Diameter[m]	Illuminance[lx]
0.60	3.42	216.7
1.20	6.83	54.2
1.80	10.25	24.1
2.40	13.67	13.5
3.00	17.09	8.7

Half peak angle: 2 x 70.7°@ C90-C270

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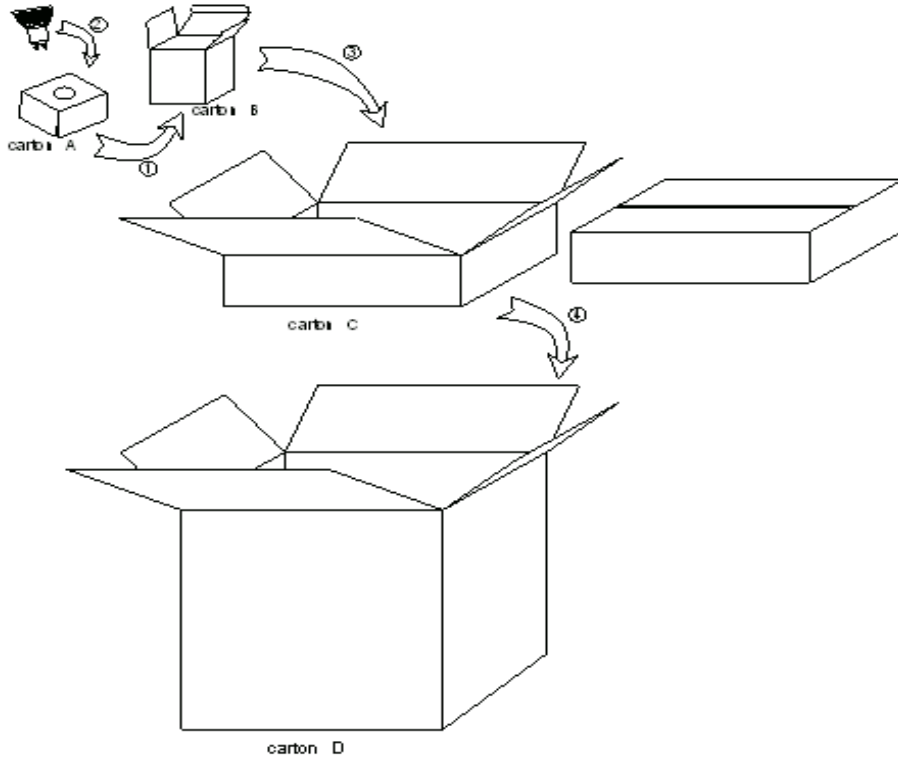
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Package Information



Packing Notice:

- 1.Qty/ctn:100pcs
- 2.Gross Weight:7.5kg
- 3.Size of carton:31X25X44CM
- 4.Handle with care

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