

5W LED PAR16-1



Built for downlights and spotlights, it offers an instant replacement in PAR type fixtures. The wide choices for different angles for lens and CCT provide a convenient way in any application design. The low energy and long life characteristics allow the customers to lower both maintenance and energy cost.

Features

- High power factor
- Excellent thermal performance
- No UV light

Typical Applications

- Entertainment lighting
- Architectural lighting
- Landscape lighting
- Bollards/Security/Garden lighting
- Interior Commercial lighting

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Product Nomenclature

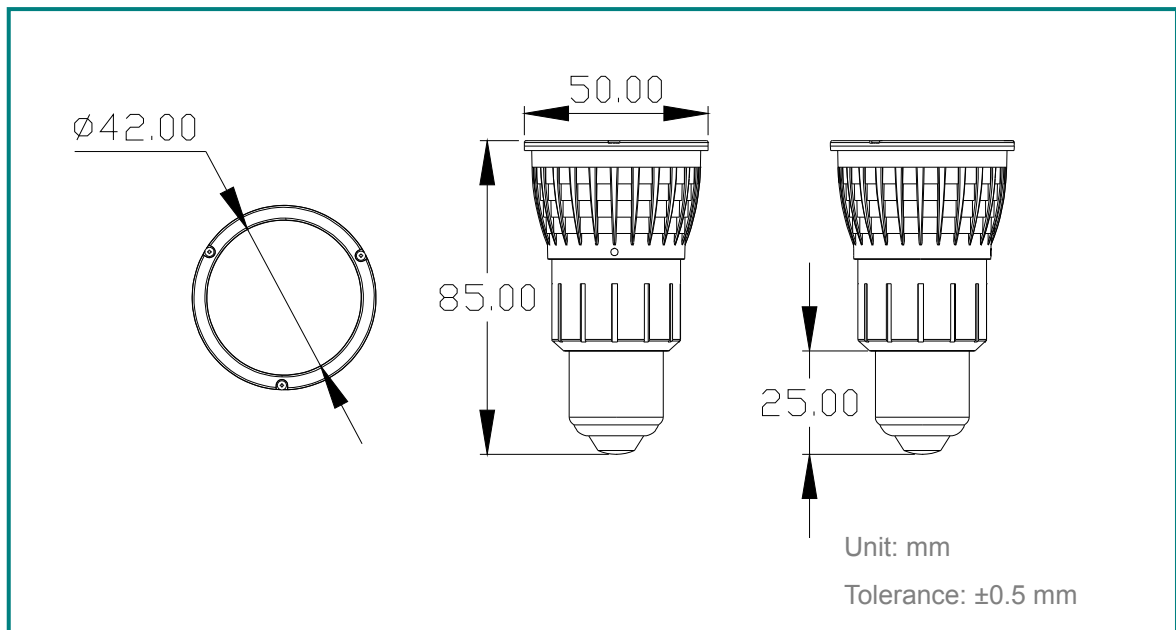
For more information regarding luminous flux and CIE color distribution, please refer to the Bin Group document.

< Table 1 PAR16 series nomenclature >

E P16 – 5 2 W 1 – 0 1
X1 X2 X3 X4 X5 X6 X7 X8

<u>X1</u> LED Item		<u>X2</u> Lighting Item		<u>X3</u> Power		<u>X4</u> Angle		<u>X5</u> Color		<u>X6</u> Serial No.1	<u>X7</u> Serial No.2	<u>X8</u> Serial No.3
Code	Type	Code	Type	Code	Type	Code	Type	Code	Type			
E	Edison	P16	PAR16	5	5W	1	10°	W	Cool White			
						2	38°	H	Neutral White			
						3	60°	X	Warm White			
								R	Red			
								A	Amber			
								T	True Green			
								B	Blue			

Product Dimensions



<Figure 1 PAR16 dimensions >

Material

- Heatsink: Aluminum die casting
- Bottom base: PBT, flammability V2 level
- Surface of heatsink: Anodization

Pin type

- E26/E27

Absolute Maximum Ratings

<Table 2 PAR16 absolute maximum ratings >

Parameter	Rating	Units
LED Junction Temperature	125	°C
Plastic bottom Temperature	50	°C
Operating Temperature	-30 ~ +40	°C
Storage Temperature	-40 ~ +60	°C
Heat sink temperature	75	°C
Input Voltage	90 ~240	V

Specifications

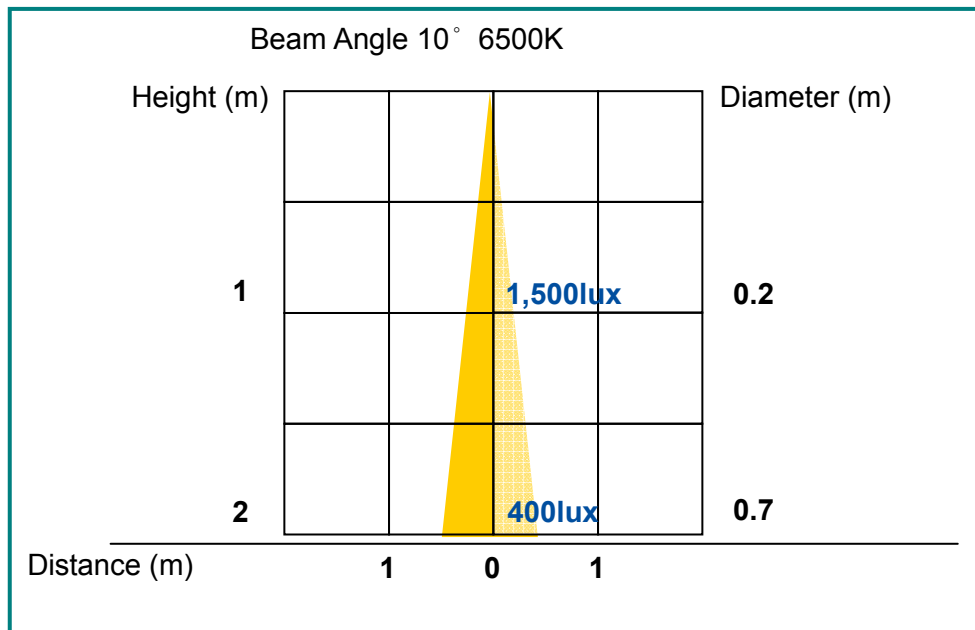
<Table 3 PAR16 specification >

Power consumption	Part Name	Color	Beam Angle	Lux @ 1m
5W	<i>EP16-51W1-01</i>	<i>Cool White</i>	<i>10°</i>	<i>1500</i>
	<i>EP16-51H1-01</i>	<i>Neutral White</i>	<i>10°</i>	<i>1300</i>
	<i>EP16-51X1-01</i>	<i>Warm White</i>	<i>10°</i>	<i>1100</i>
	<i>EP16-52W1-01</i>	<i>Cool White</i>	<i>38°</i>	<i>720</i>
	<i>EP16-52H1-01</i>	<i>Neutral White</i>	<i>38°</i>	<i>650</i>
	<i>EP16-52X1-01</i>	<i>Warm White</i>	<i>38°</i>	<i>590</i>
	<i>EP16-53W1-01</i>	<i>Cool White</i>	<i>60°</i>	<i>90</i>
	<i>EP16-53H1-01</i>	<i>Neutral White</i>	<i>60°</i>	<i>80</i>
	<i>EP16-53X1-01</i>	<i>Warm White</i>	<i>60°</i>	<i>70</i>

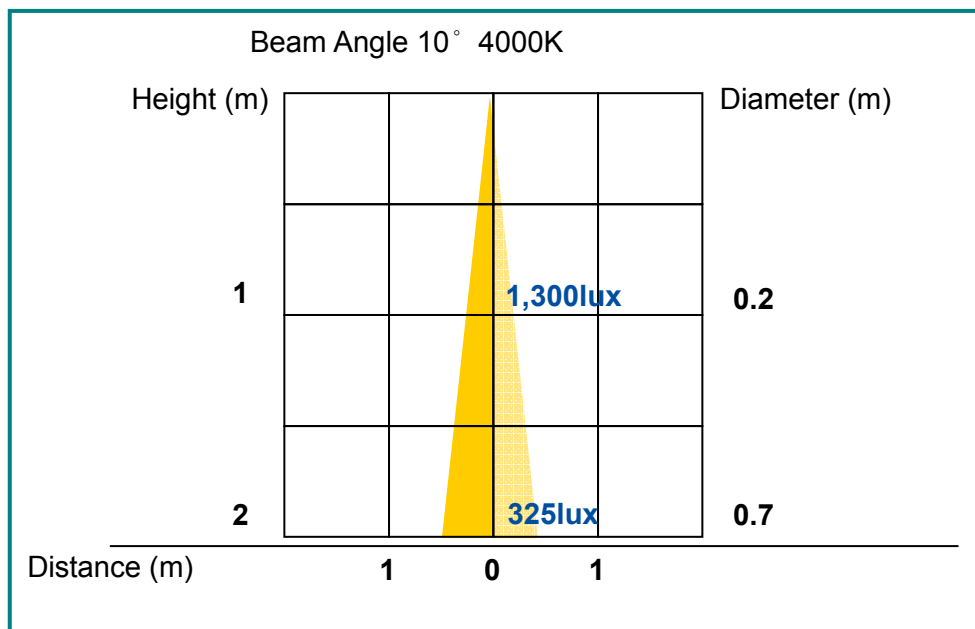
Note:

Lux value is measured under thermal balance condition . (i.e. after 1 hour operation)

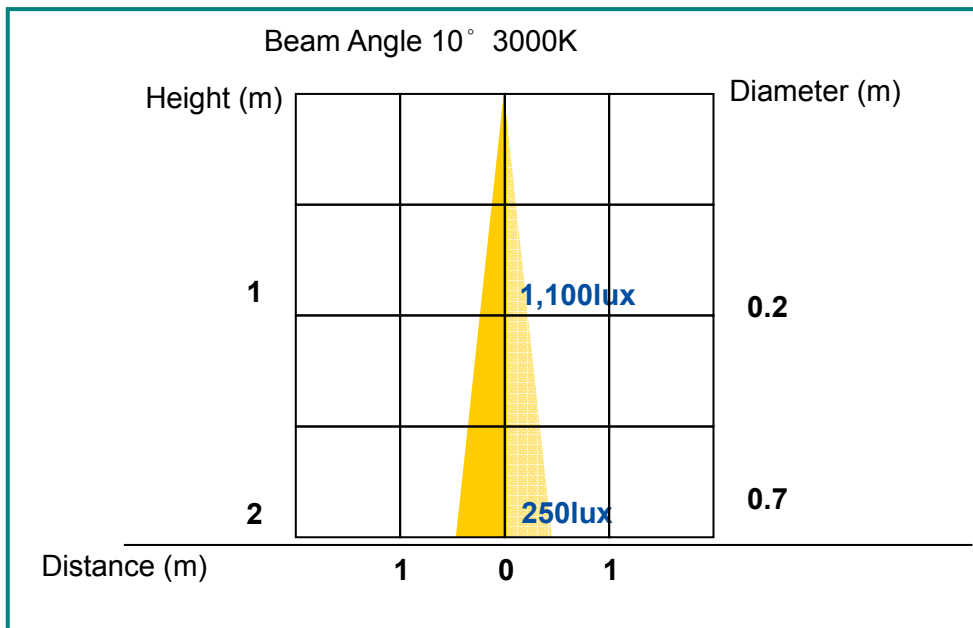
Performance



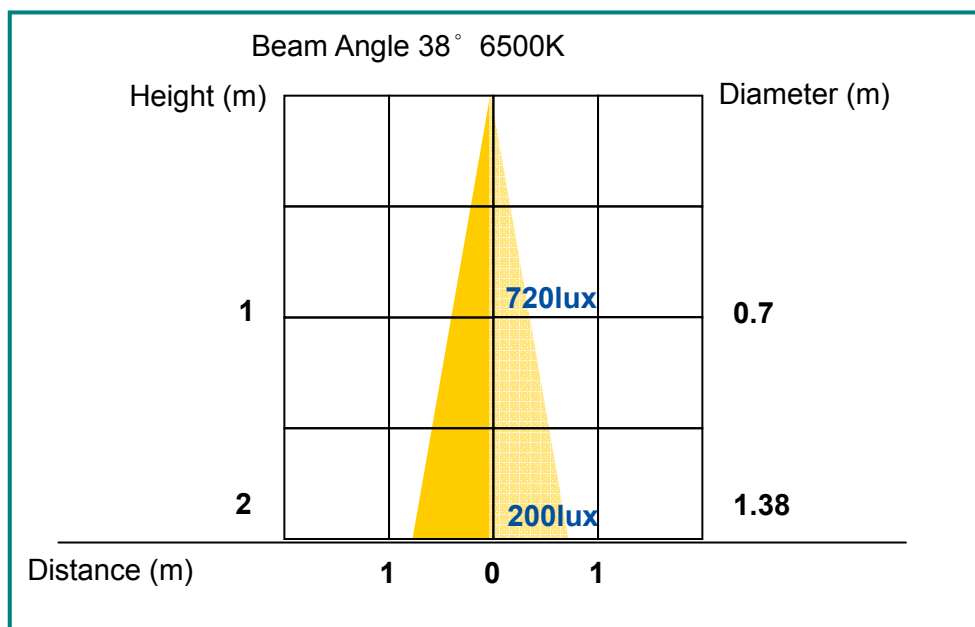
<Figure 2 PAR16 beam angle 10 degree of cool white color >



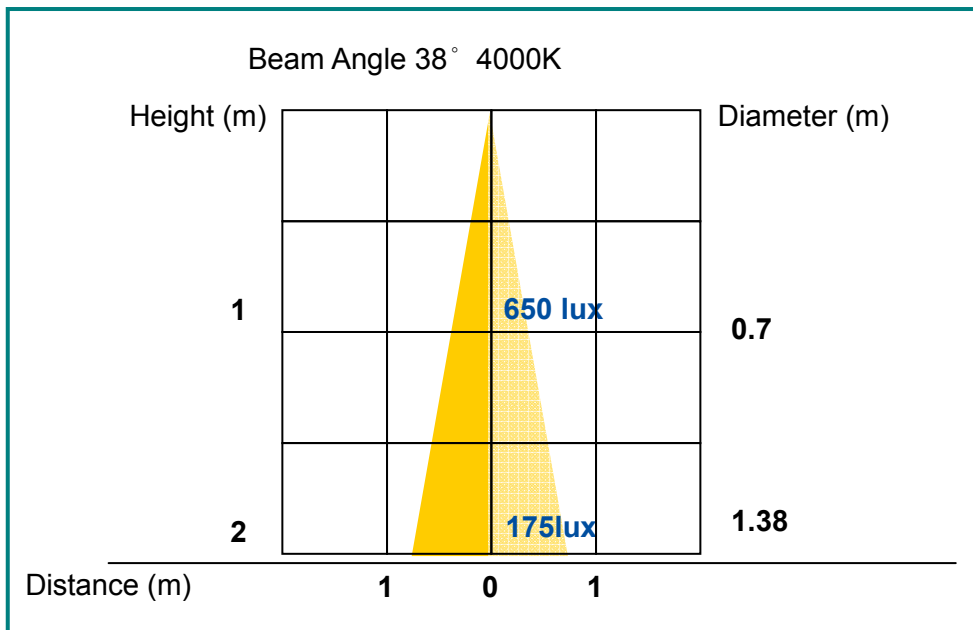
<Figure 3 PAR16 beam angle 10 degree of neutral white color >



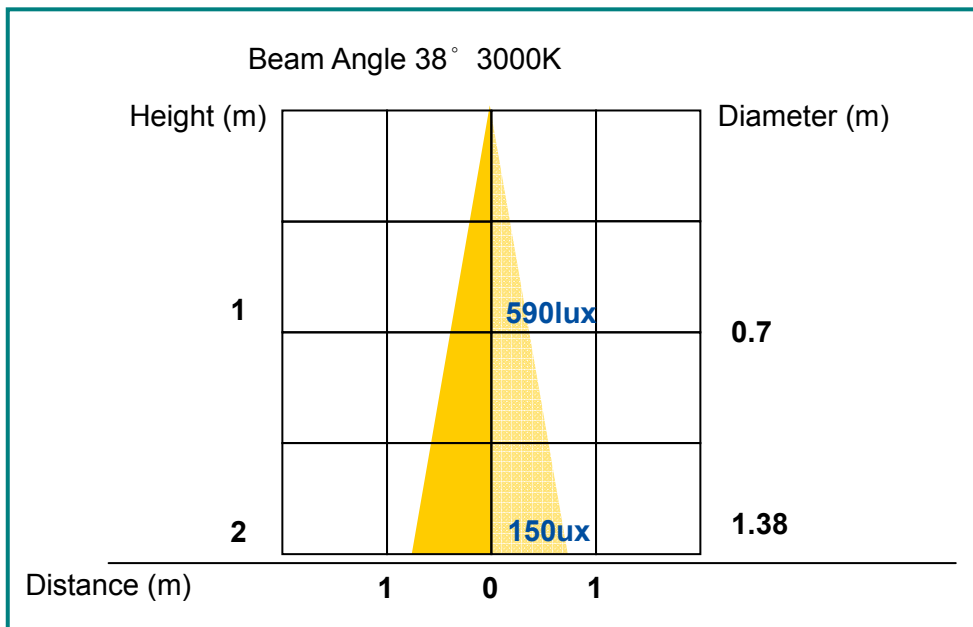
<Figure 4 PAR16 beam angle 10 degree of warm white color >



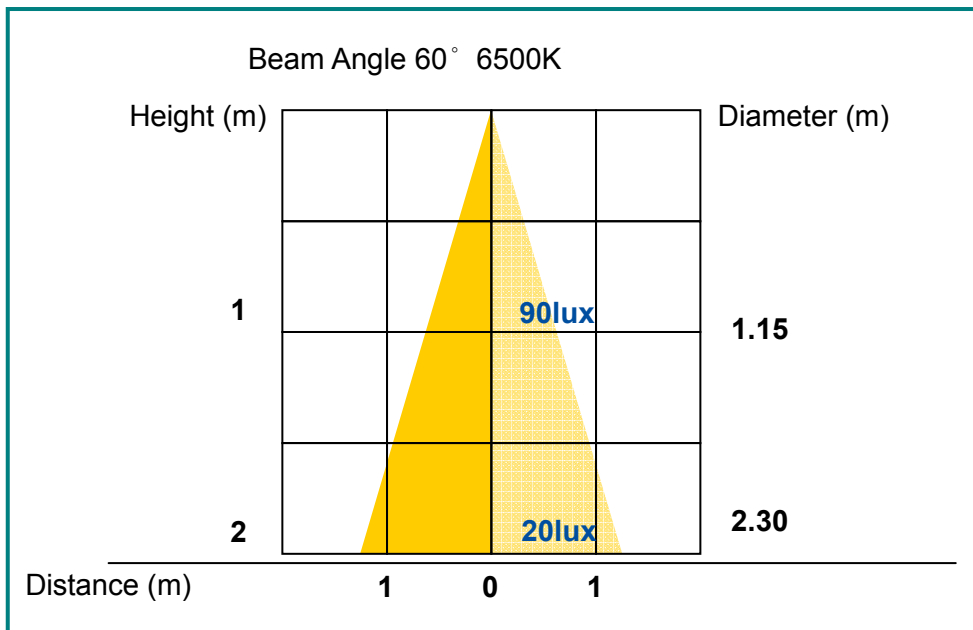
<Figure 5 PAR16 beam angle 38 degree of cool white color >



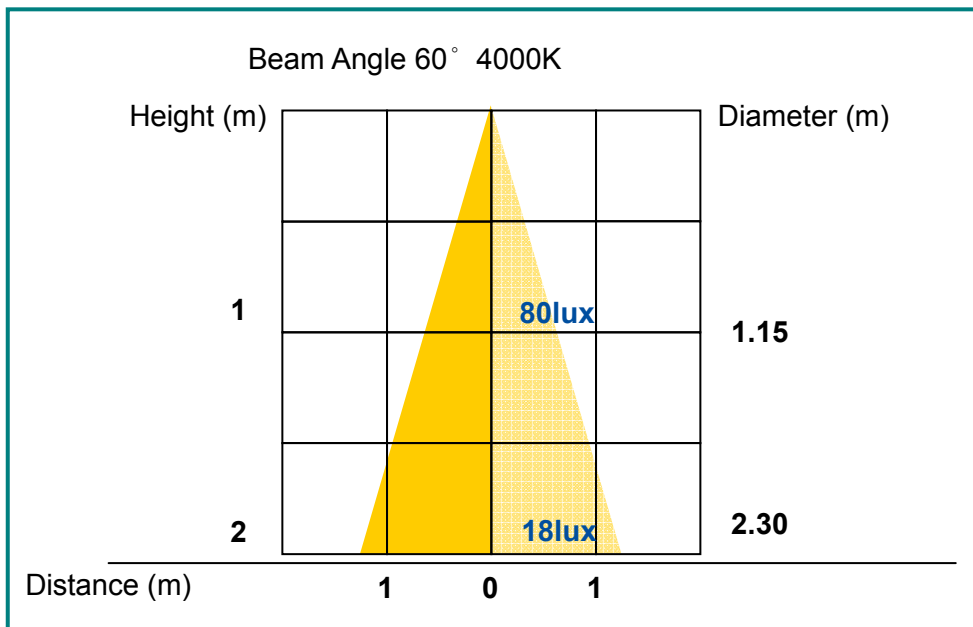
<Figure 6 PAR16 beam angle 38 degree of neutral white color >



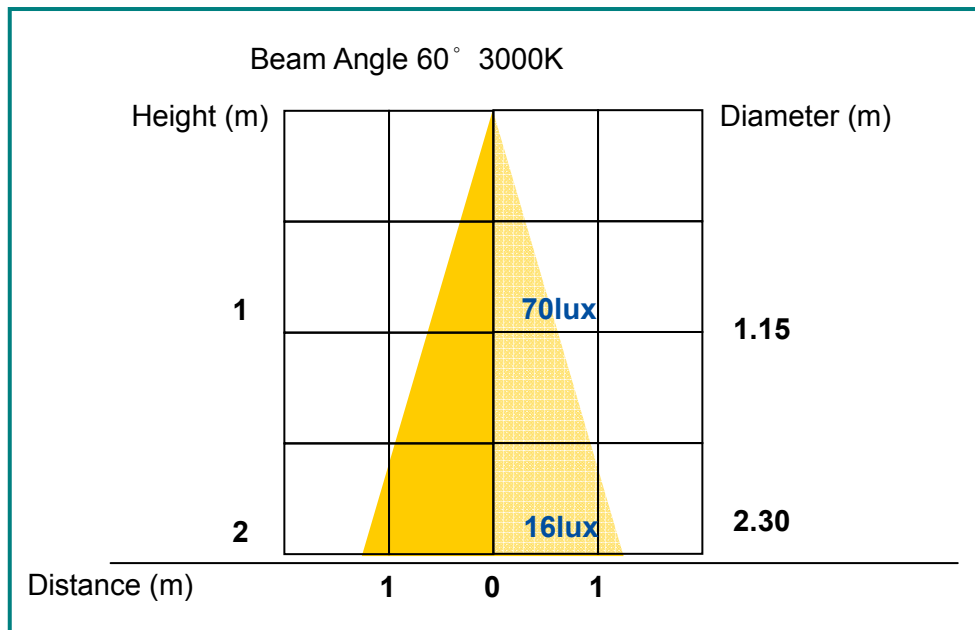
<Figure 7 PAR16 beam angle 38 degree of warm white color >



<Figure 8 PAR16 beam angle 60 degree of cool white color >

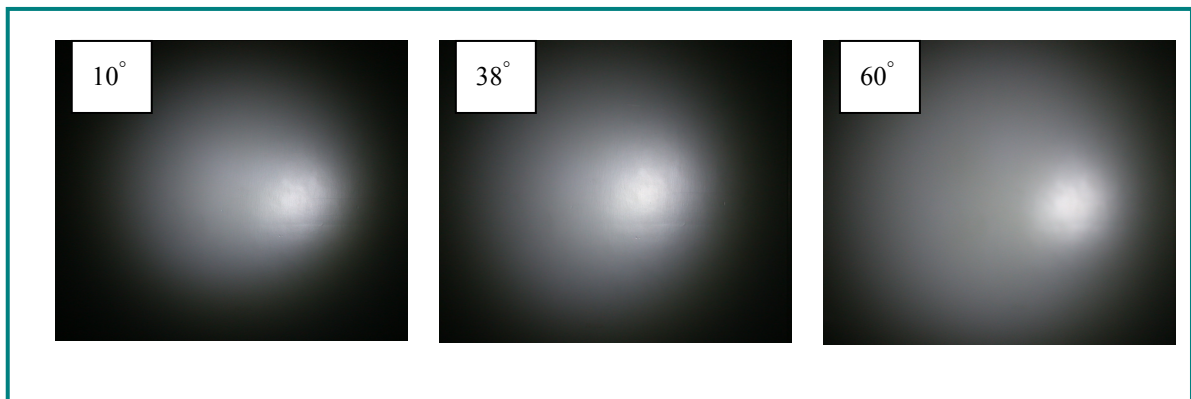


<Figure 9 PAR16 beam angle 60 degree of neutral white color >



<Figure 10 PAR16 beam angle 60 degree of warm white color >

Light Pattern 10°/38°/60°



<Figure 11 Different beam angle from 1 meter picture >

ASSIST FORM for LED System

When $T_s=65^{\circ}\text{C}$ (heat sink temperature) and $T_j=90^{\circ}\text{C}$

$L_{70\%}$ 25,000hrs

Package Dimensions

Dimension: 52 mm (L) x 52 mm (W) x 85 mm (H)

Weight: 120g (10 degree light pattern)

120g (38 degree light pattern)

90g (60 degree light pattern)



<Figure 12 Package appearance >

Note:

1. Input voltage range : 90~240V AC.
2. Please do not use this product in high humidity .
3. Do not use this product with ambient temperature over 40°C.
4. This product should only be used in a well ventilated condition. Do not install this product within an airtight lighting fixture.
5. Do not disassemble this product under no circumstances.
6. Indoor use only