



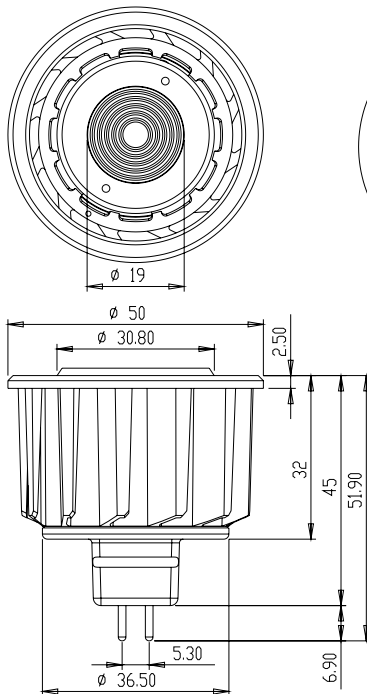
T Lite MR16 3W is designed for energy savings. It has a high light output efficiency but low power consumption. The stylish aluminum housing provides air ventilation to take away heat effectively. Temperature rise of the housing is less than 25 degrees and it is safe to touch.

The MR16 3W lamp fits into most standard, low voltage MR16 light fixtures with a GU5.3 base. MR16 3W is available in 3 color temperatures 2800K, 4200K and 6000K and two beam angles 15 deg and 25 deg.

SPECIFICATIONS

COLOR TEMPERATURE	2800K, 4200K and 6000K Also available in Red , Green and Blue
LIGHT SOURCE	Cree XRE LED
BEAM ANGLE	15 deg and 25 deg FWHM
HOUSING	Die cast aluminum, either painted silver or black
WEIGHT	60g
BASE TYPE	GU5.3
OPERATION VOLTAGE	12V AC/DC
POWER CONSUMPTION	3W
TRANSFORMER	Low voltage magnetic transformer of switching mode power supply
OPERATION TEMPERATURE	-20 deg C to 50 deg C
HUMIDITY RANGE	0 to 95% non-condensing humidity

PHYSICAL DIMENSIONS



ORDERING CODE

MR16-3W-CW-15-12V	MR-16 3W cool white 15°
MR16-3W-CW-25-12V	MR-16 3W cool white 25°
MR16-3W-CW-1040-12V	MR-16 3W cool white 10x40°
MR16-3W-NW-15-12V	MR-16 3W neutral white 15°
MR16-3W-NW-25-12V	MR-16 3W neutral white 25°
MR16-3W-WW-15-12V	MR-16 3W warm white 15°
MR16-3W-WW-25-12V	MR-16 3W warm white 25°
MR16-3W-RED-15-12V	MR-16 3W red 15°
MR16-3W-GRN-15-12V	MR-16 3W green 15°
MR16-3W-BLU-15-12V	MR-16 3W blue 15°



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PHOTOMETRIC DATA

15 DEGREE Light Source Specifications

Optics: PMMA
 Light source: 1 high power LED
 Beam angle: 15 deg
 Light distribution: symmetric direct illumination
 CCT: 2800K

Illuminance

DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size(mm)	Lux	Size(mm)	Lux	Size(mm)	Lux	Size (mm)
WHITE	628.4	250	157.2	500	69.8	750	25.2	1250

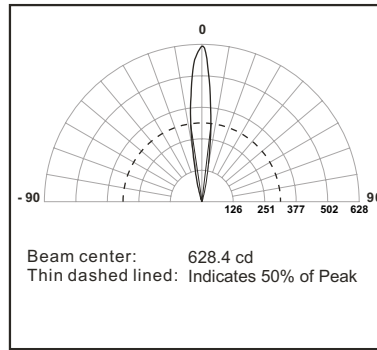
* light pattern indicates the size at 50% of peak intensity

Illuminance Distribution

in lux					
1.5	2.7	3.8	4.1	2.4	1.6
2.5	8.6	14	17	7.0	2.5
5.6	20	41	48	18	4.9
5.7	20	45	46	21	5.2
3.4	9.6	22	19	10	3.3
1.6	2.9	4.3	4.9	3.4	1.8

Location: 3.05m normal to surface

Light Distribution



IES file is also available

Light Output

Color	Warm white
Total (lumens)	64.1
Power(watts)	2.5
Efficacy(lm/W)	26

*The power consumption is measured with the lamp fixture (power consumption of the DC power supply is not included)

25 DEGREE Light Source Specifications

Optics: PMMA
 Light source: 1 high power LED
 Beam angle: 25 deg
 Light distribution: symmetric direct illumination
 CCT: 2800K

Illuminance

DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size(mm)	Lux	Size(mm)	Lux	Size(mm)	Lux	Size (mm)
WHITE	396.4	320	99	640	44	960	15.8	1600

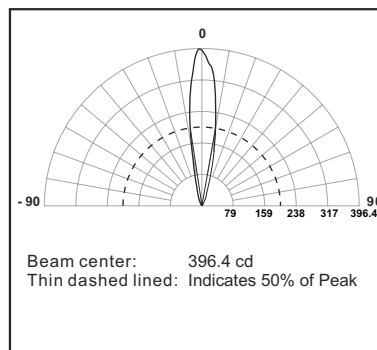
* light pattern indicates the size at 50% of peak intensity

Illuminance Distribution

in lux					
1.5	2.7	4.1	3.9	2.5	1.5
2.6	6.9	12	12	6.1	2.2
4.2	18	77	73	15	4.0
4.2	18	89	82	15	4.1
2.6	7.2	14	13	6.5	2.3
1.7	3.1	4.2	4.0	2.9	1.6

Location: 1.5m normal to surface

Light Distribution



IES file is also available

Light Output

Color	Warm white
Total (lumens)	68
Power(watts)	2.5
Efficacy(lm/W)	27.2

*The power consumption is measured with the lamp fixture (power consumption of the DC power supply is not included)

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PHOTOMETRIC DATA

15 DEGREE Light Source Specifications

Optics: PMMA
 Light source: 1 high power LED
 Beam angle: 15 deg
 Light distribution: symmetric direct illumination
 CCT: 4200K

Illuminance

DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size(mm)	Lux	Size(mm)	Lux	Size(mm)	Lux	Size (mm)
WHITE	683.6	250	170.8	500	76	750	27.4	1250

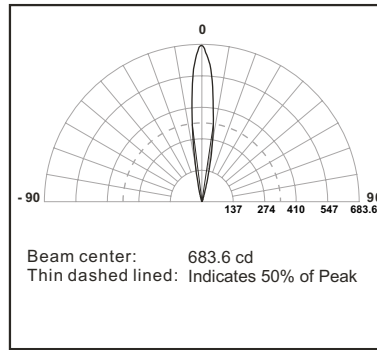
* light pattern indicates the size at 50% of peak intensity

Illuminance Distribution

in lux					
2.6	4.6	6.3	7.0	4.0	2.3
4.3	12	20	21	12	4.4
7.0	27	51	50	26	6.5
6.7	32	54	56	25	7.0
4.4	14	24	29	16	5.3
2.4	5.0	7.0	8.0	4.9	2.7

Location: 3.05m normal to surface

Light Distribution



IES file is also available

Light Output

Color	Neutral white
Total (lumens)	71.25
Power(watts)	2.5
Efficacy(lm/W)	28.5

*The power consumption is measured with the lamp fixture (power consumption of the DC power supply is not included)

25 DEGREE Light Source Specifications

Optics: PMMA
 Light source: 1 high power LED
 Beam angle: 25 deg
 Light distribution: symmetric direct illumination
 CCT: 4200K

Illuminance

DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size(mm)	Lux	Size(mm)	Lux	Size(mm)	Lux	Size (mm)
WHITE	416.8	333.5	104.2	667	46.4	1000.5	16.6	1667.5

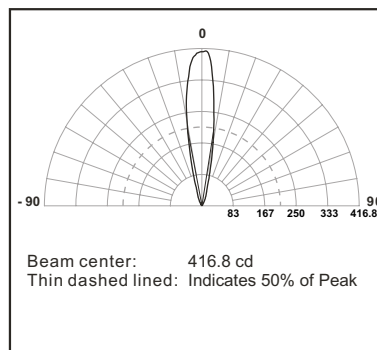
* light pattern indicates the size at 50% of peak intensity

Illuminance Distribution

in lux					
1.6	2.8	4.0	4.1	2.7	1.6
2.7	6.9	13	13	6.6	2.6
4.3	17	83	79	16	4.1
4.3	16	80	82	16	4.2
2.7	7.2	14	13	6.9	2.6
1.7	3.0	4.4	4.4	2.95	1.8

Location: 1.5m normal to surface

Light Distribution



IES file is also available

Light Output

Color	Neutral white
Total (lumens)	74.56
Power(watts)	2.5
Efficacy(lm/W)	28.5

*The power consumption is measured with the lamp fixture (power consumption of the DC power supply is not included)

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PHOTOMETRIC DATA

15 DEGREE Light Source Specifications

Optics: PMMA
 Light source: 1 high power LED
 Beam angle: 15 deg
 Light distribution: symmetric direct illumination
 CCT: 6000K

Illuminance

DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size(mm)	Lux	Size(mm)	Lux	Size(mm)	Lux	Size (mm)
WHITE	897	268.5	224.2	537	99.6	805.5	35.8	1342.5

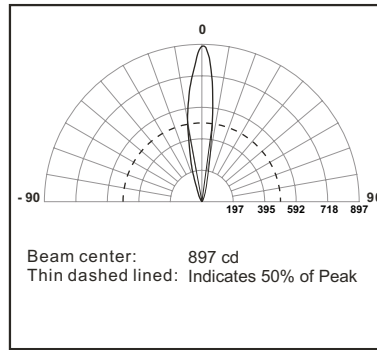
* light pattern indicates the size at 50% of peak intensity

Illuminance Distribution

in lux					
2.4	4.1	6.2	6.1	4.1	2.5
4.1	13.5	29	27	12	4.7
8.3	34	75	73	29	7.0
8.4	30	70	68	28	7.2
4.1	14	27	26	11	3.7
2.1	3.6	5.8	5.5	3.5	2.2

Location: 3.05m normal to surface

Light Distribution



IES file is also available

Light Output

Color	Cool white
Total (lumens)	94.97
Power(watts)	2.7
Efficacy(lm/W)	35.2

*The power consumption is measured with the lamp fixture (power consumption of the DC power supply is not included)

25 DEGREE Light Source Specifications

Optics: PMMA
 Light source: 1 high power LED
 Beam angle: 25 deg
 Light distribution: symmetric direct illumination
 CCT: 6000K

Illuminance

DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size(mm)	Lux	Size(mm)	Lux	Size(mm)	Lux	Size (mm)
WHITE	500.2	316	125	632	55.6	948	20	1580

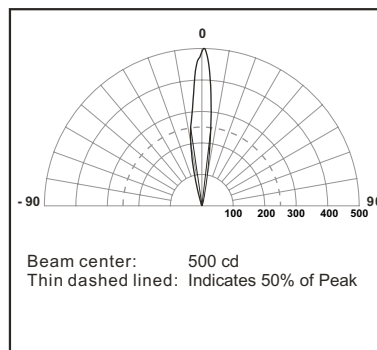
* light pattern indicates the size at 50% of peak intensity

Illuminance Distribution

in lux					
1.8	2.8	4.2	4.3	2.6	1.8
2.5	6.8	14	14	6.5	2.7
4.2	15	96	98	15	4.7
4.3	16	85	82	15	4.7
2.9	7.5	15	16	7.3	3.1
1.6	2.9	4.4	4.4	2.6	1.7

Location: 1.5m normal to surface

Light Distribution



IES file is also available

Light Output

Color	Cool white
Total (lumens)	80
Power(watts)	2.7
Efficacy(lm/W)	29.6

*The power consumption is measured with the lamp fixture (power consumption of the DC power supply is not included)

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