

O u t d o o r L i g h t i n g

1 x 3Watt high power Cree Q5 LED



► **FEATURES**

- Very long operation life in excess of 50,000 hours
- Low energy consumption 1-3W
- Robust construction suitable for outdoor application
- Simple to use Ray Driver constant current source

► **SPECIFICATIONS**

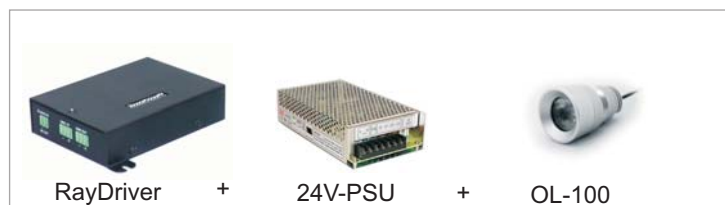
COLOR RANGE	Cool White / Neutral White / Warm White
SOURCE LIFE	50,000 hours under normal operating conditions
LIGHT SOURCE	3 Watt high power Cree Q5 LED
POWER REQUIREMENT	350-1000mA constant current supply
POWER CONSUMPTION	3.9W Max
BEAM ANGLE	15 deg (25, 10x40 deg optional)
HOUSING	Machined Aluminum Housing
INGRESS PROTECTION RATING	IP67
CONNECTION	2 pin connector/cable
LISTING	CE certified
OPERATION TEMPERATURE	-10 degC to +50 degC
STORAGE TEMPERATURE	-20 degC to +70 degC
DIMENSION	25mm(Dia) x 60mm(Depth)
WEIGHT	120g
POWER AND CONTROL	Ray Driver + 24V power supply

► **PHYSICAL DIMENSIONS**



► **ORDERING CODE**

OL-100-3W-CW-15-700mA	1x3W Cool White 15° 700mA
OL-100-3W-CW-25-700mA	1x3W Cool White 25° 700mA
OL-100-3W-CW-10x40-700mA	1x3W Cool White 10x40° 700mA
OL-100-3W-NW-15-700mA	1x3W Neutral White 15° 700mA
OL-100-3W-NW-25-700mA	1x3W Neutral White 25° 700mA
OL-100-3W-NW-10x40-700mA	1x3W Neutral White 10x40° 700mA
OL-100-3W-WW-15-700mA	1x3W Warm White 15° 700mA
OL-100-3W-WW-25-700mA	1x3W Warm White 25° 700mA
OL-100-3W-WW-10x40-700mA	1x3W Warm White 10x40° 700mA



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PHOTOMETRIC DATA

Light source **specifications**

Optics: polycarbonate lens
 Light source: 1 high power Cree LED (Cool White)
 Beam angle: 15 deg
 Light distribution: symmetric direct illumination

ILLUMINANCE

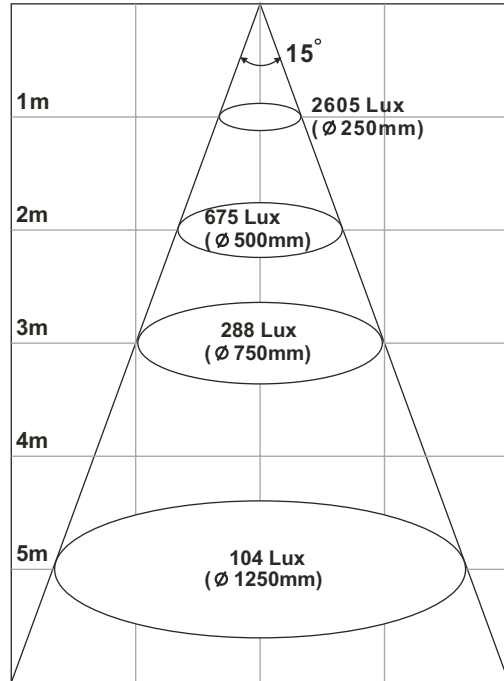
DISTANCE \ COLOR	1m		2m		3m		5m	
	Lux	Size (mm)	Lux	Size (mm)	Lux	Size (mm)	Lux	Size (mm)
COOL WHITE	2605	250	675	500	288	750	104	1250

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

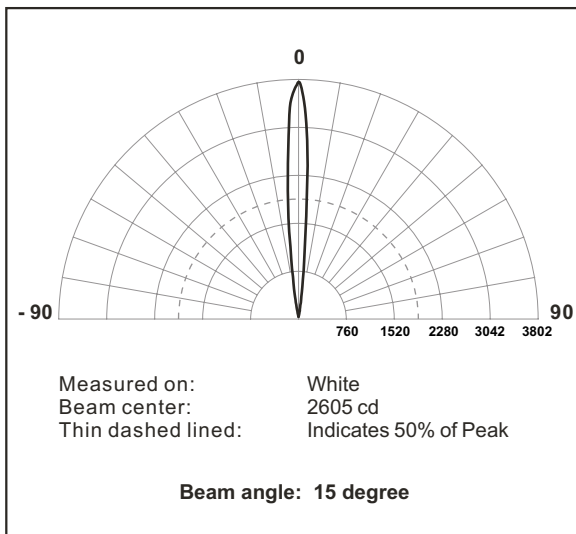
LIGHT OUTPUT

COLOR	Total (lumens)	Power(watts)	Efficacy(lm/W)
WHITE	174	3.9	44.62

Full intensity in white color

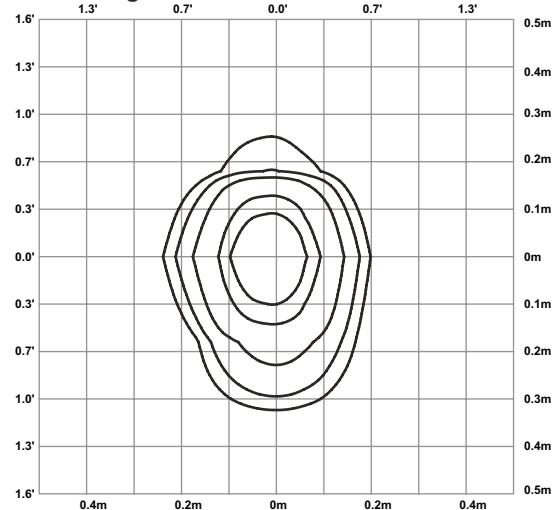


LIGHT DISTRIBUTION



IES file is also available

Isolux diagram



At 1m distance

- 3% 78lx
- 5% 130lx
- 10% 259lx
- 30% 780lx
- 50% 1300lx

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PHOTOMETRIC DATALight source **specifications**

Report of OL100 Spectrophotometer for LED

Product:OL-100

Manufacturer: DMS Lighting

Number:001

Model:LENS 15DEG

Temperature:25.3deg

Tested By:ArDu

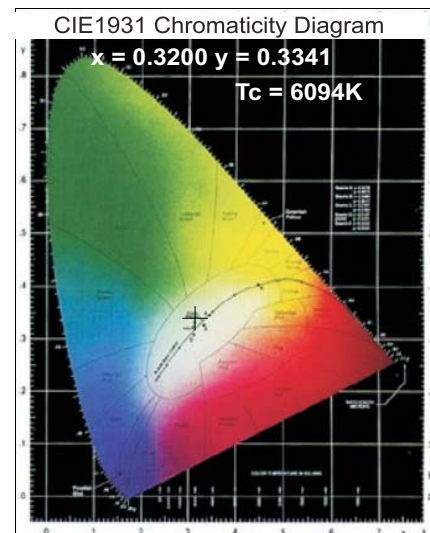
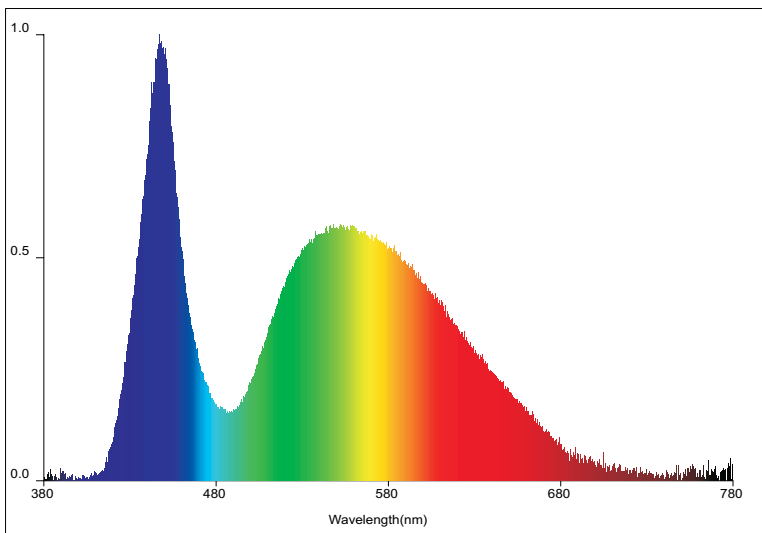
LED Type:CREE Q5

Test Date:2008-6-20

Humidity:65%

Checkedy:

CIE Color Parameter

Chromaticity Coordinate: $x=0.3200$ $y=0.3341$ / $u=0.2010$ $v=0.3147$ Tc:6094K Dominant WL: λ D=492.5nm Purity=4.4%Red Ratio:R=14.0% Peak WL: λ P=447.3nm HWL: λ D=27.1nm

Render Index:Ra=73.7

R1=72 R2=77 R3=79 R4=75 R5=73 R6=69 R7=82

R8=63 R9=-18 R10=43 R11=72 R12=46 R13=72 R14=88 R15=68

Optical Parameter

Luminous Flux:174lm

Pe:524mW

Luminous Efficiency:44.6lm/w

Electrical Parameter

[Forward] Voltage:24V Supply

Constant A:1000mA Wattage:3.9W

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