Installation Instruction
Fixture(s) should be used "ONLY" with low voltage landscape power units that do not exceed 25A, 15V.
The power units reduce the voltage from 120 volts to 12 volts.
The main cable from power units should be buried for less than 6 inches under the ground level and can be purchased from your local electric supply house.

FIELDS OF APPLICATION
Landscape Areas

IEC 62717 LED-modules for general lighting – Performance requirements
IEC 62722-2-1 Particular requirements for LED luminaires

High Lumen Efficacy
Housing Brass Finished
Glowing Wire Test - 850°
Temperature - ta=20 °C ~ ta max=50 °C
Class - III

Model --- **Q29**

A - Ø61 X 120~187mm

Default Available

MR16Q29-B-38-A

Product Assistant Chart

Q29 X X X X X

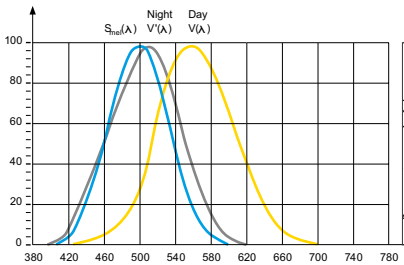
- Size — A — [ ]
- Driver — 0 On/Off | 1 Dali | 2 Dimmable | 3 Phase Dimming | 4 1-10 — [ ]
- Beam Angle — 38° | 60° — [ ]
- Kelvin — 30 3000K | 40 4000K | 60 6000K | GR GREEN | BL BLUE | RD RED — [ ]
- Finishing — CO COPPER | BR BRASS — [ ]
- Wattage — MR16 — [ ]

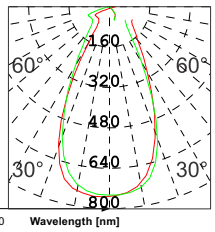
Lighting Customization Solution offer the wide range of customized product with best available options.

IP 67 | **IK 08** | **LED** | **McA Step 4** | **AC/DC**

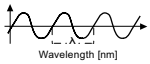
Relative spectral perception of brightness and melanopic effect

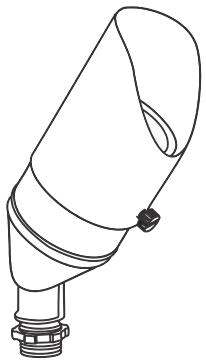
Effect as a percentage





Explanation of the three curves:
V(λ) = Perception of brightness, daytime seeing with the cones
V'(λ) = Night-time seeing with the rods
$S_{mel}(\lambda)$ = Melatonin suppression with the photosensitive ganglion cells





LED life time			Operating time 1.000 h									
Lamp Lumen Maintenance Factor			1	10	20	30	40	50	60	70	80	90	100
Lamp Survival Factor			1	1	1	1	1	1	1	1	0.99	0.99	0.99
L80	50.000 h	LLMF	1	0.96	0.92	0.88	0.84	0.80	0.76	0.72	0.68	0.64	0.60
		LSF	1	1	1	1	1	1	0.99	0.99	0.99	0.99	0.98
L80	100.000 h	LLMF	1	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.84	0.82	0.80
		LSF	1	1	1	1	1	1	1	0.99	0.99	0.99	0.99

A++ ENERGY LEVEL | LED | CRI>90 | series wiring | F | RoHS COMPLIANT | CE | UV FREE | CIDET | LM-80 | ENERGY STAR | FLICKER FREE