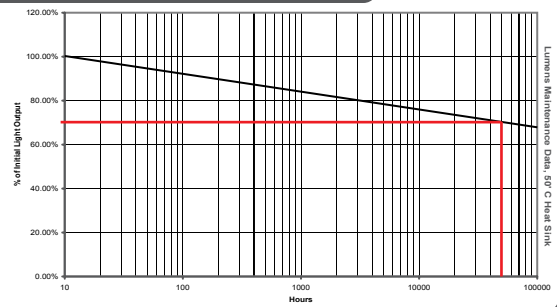


# LED SPECIFICATIONS

## ELECTRICAL DATA

- DRIVE CURRENT: 0.8A
- VOLTAGE: 12V ac
- WATTAGE: 10w
- OUTPUT: 123lm (typical)
- LUMINOUS EFFICACY: 12.3lm/w
- DIMMABLE: trailing or leading edge compatible
- SURGE PROTECTION: 4 joules (2ms)
- LUMENS MAINTENANCE: 70% @ 50,000hrs

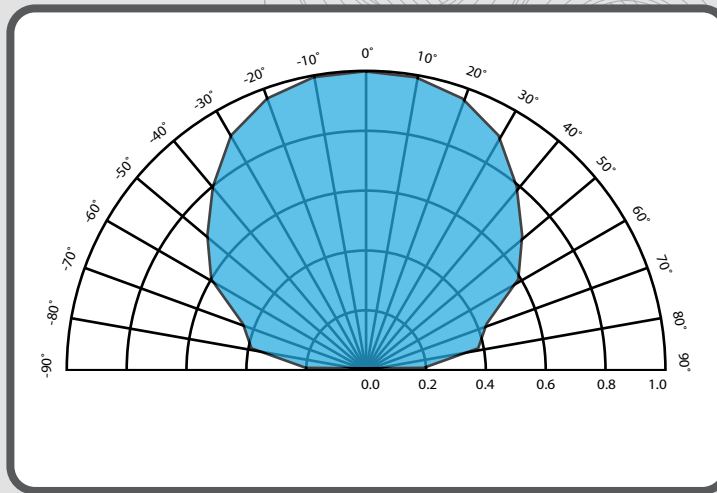
## LUMENS MAINTENANCE



## PHOTOMETRIC DATA

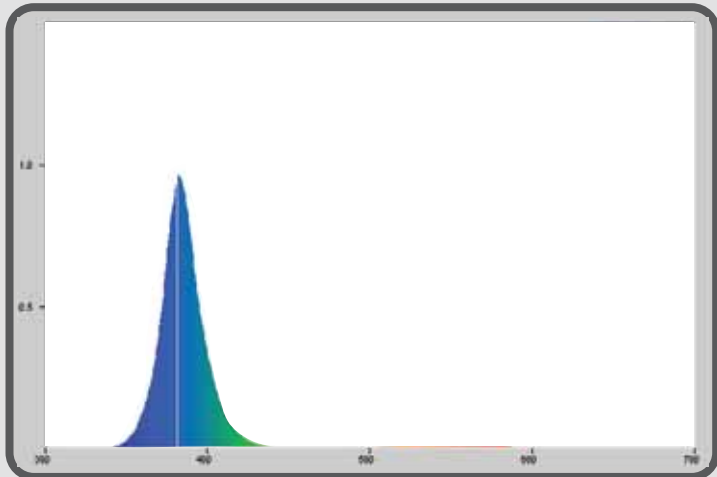
### POLAR PLOT

- RELATIVE INTENSITY
- +/-80°: 38%
- +/-60°: 60%
- +/-45°: 75%
- +/-20°: 95%
- +/- 0°: 100%



### WAVELENGTH

- DOMINANT: 470nm
- PEAK: 467nm



NOTE: ALL LIGHTS HAVE BEEN TESTED IN AIR AND THE VISUAL APPEARANCE IN WATER WILL VARY DEPENDING ON COLOUR, WATER ATTENUATION, POOL INTERIOR COLOUR ABSORPTION AND WATER CLARITY. SPA ELECTRICS RESERVES THE RIGHT TO CHANGE THESE SPECIFICATIONS WITHOUT PRIOR NOTICE.



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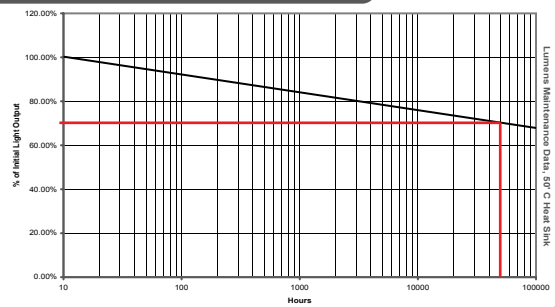
EM SERIES - BLUE

# LED SPECIFICATIONS

## ELECTRICAL DATA

- DRIVE CURRENT: 0.8A
- VOLTAGE: 12V ac
- WATTAGE: 10w
- OUTPUT: 655lm (typical)
- LUMINOUS EFFICACY: 65lm/w
- DIMMABLE: trailing or leading edge compatible
- SURGE PROTECTION: 4 joules (2ms)
- LUMENS MAINTENANCE: 70% @ 50,000hrs

## LUMENS MAINTENANCE

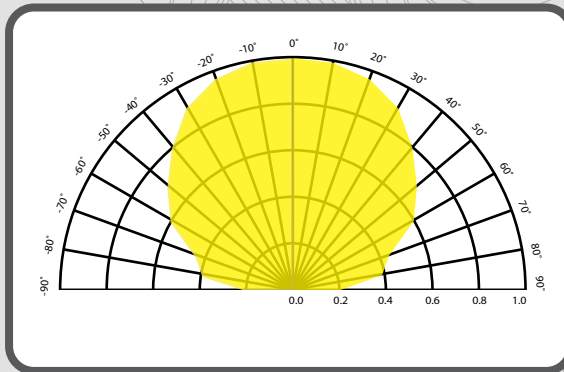


## PHOTOMETRIC DATA

### POLAR PLOT

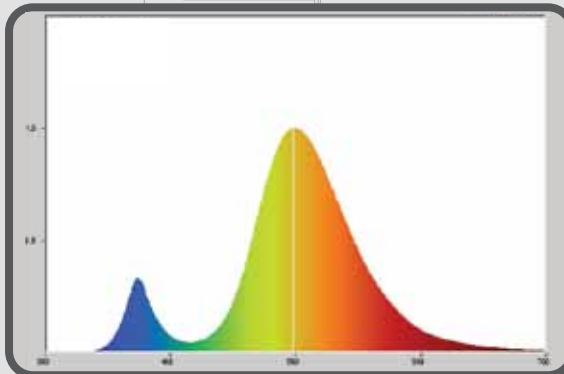
#### RELATIVE INTENSITY

- +/- 80°: 38%
- +/- 60°: 60%
- +/- 45°: 75%
- +/- 20°: 95%
- +/- 0°: 100%



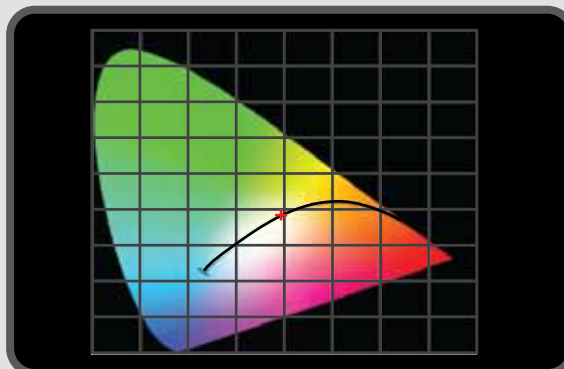
### WAVELENGTH

- DOMINANT: 570nm
- PEAK: 580nm



### SPECTRUM

- CCT: 3800k
- COLOUR
- PURITY: 30%
- CIE<sub>x</sub>: 0.39
- CRI. (Ra): 71
- CIE<sub>y</sub>: 0.38



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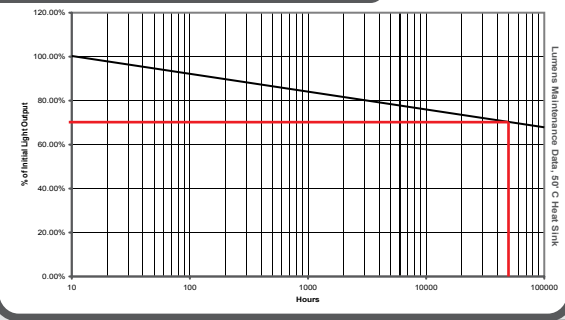


# LED SPECIFICATIONS

## ELECTRICAL DATA

- DRIVE CURRENT: 0.8A
- VOLTAGE: 12V ac
- WATTAGE: 10w
- OUTPUT: 327lm (typical)
- LUMINOUS EFFICACY: 32.7lm/w
- DIMMABLE: trailing or leading edge compatible
- SURGE PROTECTION: 4 joules (2ms)
- LUMENS MAINTENANCE: 70% @ 50,000hrs

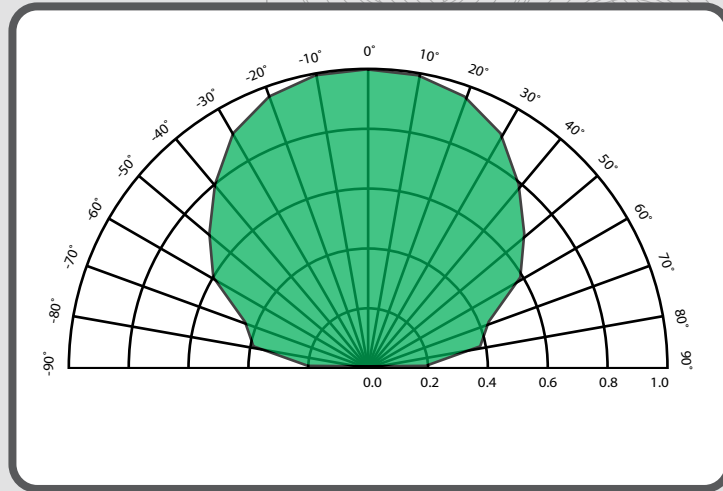
## LUMENS MAINTENANCE



## PHOTOMETRIC DATA

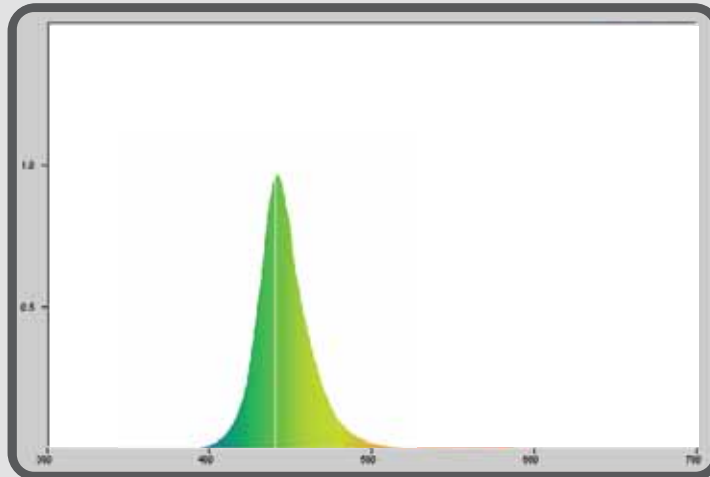
### POLAR PLOT

- RELATIVE INTENSITY
  - +/- 80° : 38%
  - +/- 60° : 60%
  - +/- 45° : 75%
  - +/- 20° : 95%
  - +/- 0° : 100%



### WAVELENGTH

- DOMINANT: 512nm
- PEAK: 512nm



NOTE: ALL LIGHTS HAVE BEEN TESTED IN AIR AND THE VISUAL APPEARANCE IN WATER WILL VARY DEPENDING ON COLOUR, WATER ATTENUATION, POOL INTERIOR COLOUR ABSORPTION AND WATER CLARITY. SPA ELECTRICS RESERVES THE RIGHT TO CHANGE THESE SPECIFICATIONS WITHOUT PRIOR NOTICE.



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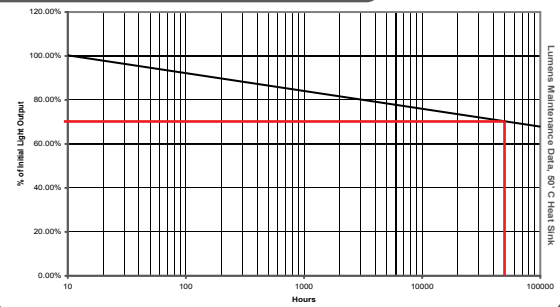


# LED SPECIFICATIONS

## ELECTRICAL DATA

- DRIVE CURRENT: 0.8A
- VOLTAGE: 12V ac
- WATTAGE: 10w
- OUTPUT: RED: 240lm GREEN: 327lm BLUE: 123lm
- LUMINOUS EFFICACY: R: 24 lmw G: 32lmw B: 12lmw
- DIMMABLE: Not compatible with this model.
- SURGE PROTECTION: 4 joules (2ms)
- LUMENS MAINTENANCE: 70% @ 50,000hrs

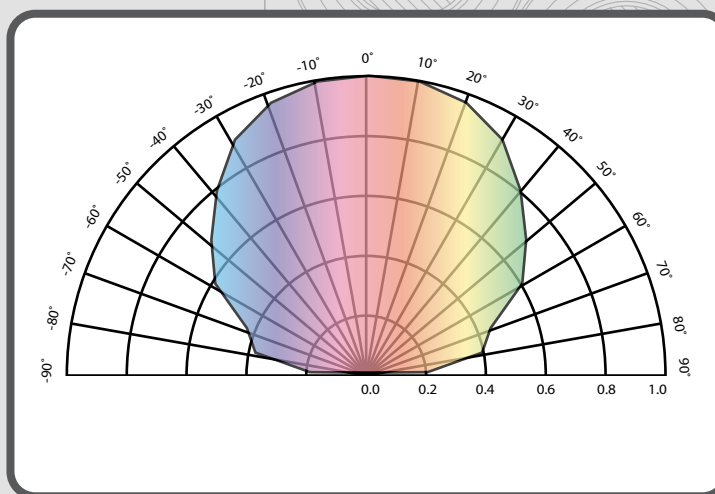
## LUMENS MAINTENANCE



## PHOTOMETRIC DATA

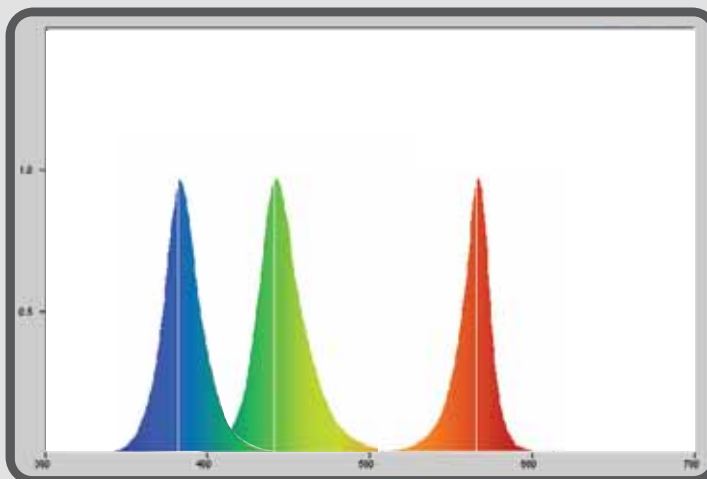
### POLAR PLOT

- RELATIVE INTENSITY
- +/- 80°: 38%
- +/- 60°: 60%
- +/- 45°: 75%
- +/- 20°: 95%
- +/- 0°: 100%



### WAVELENGTH

- RED
- DOMINANT: 645nm
- PEAK: 627nm
- GREEN
- DOMINANT: 512nm
- PEAK: 512nm
- BLUE
- DOMINANT: 470nm
- PEAK: 467nm



NOTE: ALL LIGHTS HAVE BEEN TESTED IN AIR AND THE VISUAL APPEARANCE IN WATER WILL VARY DEPENDING ON COLOUR, WATER ATTENUATION, POOL INTERIOR COLOUR ABSORPTION AND WATER CLARITY. SPA ELECTRICS RESERVES THE RIGHT TO CHANGE THESE SPECIFICATIONS WITHOUT PRIOR NOTICE.



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