

# Data Sheet

## Cone Diagrams

### MR11



| 20W        |        | 35W  |        |
|------------|--------|------|--------|
| Open       | Closed | Open | Closed |
| <b>10°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 4,400  | 0.17 | 3,960  |
| 2          | 1,100  | 0.35 | 990    |
| 3          | 489    | 0.52 | 440    |
| 4          | 275    | 0.7  | 248    |
| 5          | 176    | 0.87 | 158    |
| <b>17°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 2,000  | 0.3  | 1,800  |
| 2          | 500    | 0.6  | 450    |
| 3          | 222    | 0.9  | 200    |
| 4          | 125    | 1.2  | 113    |
| 5          | 80     | 1.49 | 72     |
| <b>26°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 550    | 0.46 | 450    |
| 2          | 138    | 0.92 | 123    |
| 3          | 61     | 1.39 | 54     |
| 4          | 34     | 1.85 | 31     |
| 5          | 22     | 2.31 | 20     |

| 20W        |        | 35W  |        |
|------------|--------|------|--------|
| Open       | Closed | Open | Closed |
| <b>10°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 7,000  | 0.17 | 6,300  |
| 2          | 1,750  | 0.35 | 1,575  |
| 3          | 778    | 0.52 | 700    |
| 4          | 438    | 0.7  | 394    |
| 5          | 280    | 0.87 | 252    |
| <b>21°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 2,300  | 0.37 | 2,070  |
| 2          | 575    | 0.74 | 518    |
| 3          | 256    | 1.11 | 230    |
| 4          | 144    | 1.48 | 129    |
| 5          | 92     | 1.85 | 83     |
| <b>26°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 1,300  | 0.46 | 1,170  |
| 2          | 325    | 0.92 | 294    |
| 3          | 144    | 1.39 | 129    |
| 4          | 81     | 1.85 | 72     |
| 5          | 52     | 2.31 | 46     |

### MR16



| 20W        |        | 35W   |        | 50W  |        |
|------------|--------|-------|--------|------|--------|
| Open       | Closed | Open  | Closed | Open | Closed |
| <b>8°</b>  |        |       |        |      |        |
| m          | lux    | Øm    | lux    | m    | lux    |
| 1          | 0.14   | 4,000 |        | 1    | 0.14   |
| 2          | 0.28   | 1,000 |        | 2    | 0.28   |
| 3          | 0.42   | 444   |        | 3    | 0.42   |
| 4          | 0.56   | 250   |        | 4    | 0.56   |
| 5          | 0.7    | 160   |        | 5    | 0.7    |
| <b>36°</b> |        |       |        |      |        |
| m          | lux    | Øm    | lux    | m    | lux    |
| 1          | 500    | 0.65  | 450    | 1    | 1,650  |
| 2          | 125    | 1.3   | 113    | 2    | 405    |
| 3          | 56     | 1.95  | 50     | 3    | 180    |
| 4          | 31     | 2.6   | 28     | 4    | 101    |
| 5          | 20     | 3.25  | 18     | 5    | 65     |

| 35W        |        | 50W  |        |
|------------|--------|------|--------|
| Open       | Closed | Open | Closed |
| <b>18°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 3,660  | 0.32 | 2,950  |
| 2          | 915    | 0.63 | 738    |
| 3          | 407    | 0.95 | 328    |
| 4          | 229    | 1.27 | 184    |
| 5          | 146    | 1.58 | 118    |
| <b>36°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 1,650  | 0.65 | 1,330  |
| 2          | 405    | 1.3  | 325    |
| 3          | 180    | 1.95 | 144    |
| 4          | 101    | 2.6  | 81     |
| 5          | 65     | 3.25 | 52     |

| 35W        |        | 50W   |        |
|------------|--------|-------|--------|
| Open       | Closed | Open  | Closed |
| <b>8°</b>  |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.14   | 8,000 |        |
| 2          | 0.28   | 2,000 |        |
| 3          | 0.42   | 889   |        |
| 4          | 0.56   | 500   |        |
| 5          | 0.7    | 320   |        |
| <b>18°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 5,920  | 0.32  | 4,750  |
| 2          | 1,480  | 0.63  | 1,188  |
| 3          | 658    | 0.95  | 528    |
| 4          | 370    | 1.27  | 297    |
| 5          | 237    | 1.58  | 190    |
| <b>36°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 2,600  | 0.65  | 2,100  |
| 2          | 650    | 1.3   | 525    |
| 3          | 289    | 1.95  | 233    |
| 4          | 163    | 2.6   | 131    |
| 5          | 104    | 3.25  | 84     |

### MR16 aluminium



| 20W        |        | 35W  |        | 50W  |        |
|------------|--------|------|--------|------|--------|
| Open       | Closed | Open | Closed | Open | Closed |
| <b>36°</b> |        |      |        |      |        |
| m          | lux    | Øm   | lux    | m    | lux    |
| 1          | 0.65   | 450  |        | 1    | 0.65   |
| 2          | 1.3    | 113  |        | 2    | 1.3    |
| 3          | 0.95   | 50   |        | 3    | 0.95   |
| 4          | 2.6    | 28   |        | 4    | 2.6    |
| 5          | 3.25   | 18   |        | 5    | 3.25   |

| 35W        |        | 50W   |        |
|------------|--------|-------|--------|
| Open       | Closed | Open  | Closed |
| <b>36°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.65   | 1,300 |        |
| 2          | 1.3    | 325   |        |
| 3          | 0.95   | 144   |        |
| 4          | 2.6    | 81    |        |
| 5          | 3.25   | 52    |        |

| 35W        |        | 50W  |        |
|------------|--------|------|--------|
| Open       | Closed | Open | Closed |
| <b>18°</b> |        |      |        |
| m          | lux    | Øm   | lux    |
| 1          | 1.15   | 700  |        |
| 2          | 2.31   | 175  |        |
| 3          | 3.46   | 78   |        |
| 4          | 4.62   | 44   |        |
| 5          | 5.77   | 28   |        |

| 35W        |        | 50W   |        |
|------------|--------|-------|--------|
| Open       | Closed | Open  | Closed |
| <b>36°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.65   | 1,800 |        |
| 2          | 1.3    | 450   |        |
| 3          | 0.95   | 200   |        |
| 4          | 2.6    | 113   |        |
| 5          | 3.25   | 72    |        |

### GU10



| 50W        |        | 50W   |        |
|------------|--------|-------|--------|
| Open       | Closed | Open  | Closed |
| <b>25°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.45   | 1,000 |        |
| 2          | 0.89   | 250   |        |
| 3          | 1.33   | 111   |        |
| 4          | 1.77   | 62    |        |
| 5          | 2.21   | 40    |        |
| <b>50°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.93   | 600   |        |
| 2          | 1.87   | 150   |        |
| 3          | 2.8    | 67    |        |
| 4          | 3.73   | 38    |        |
| 5          | 4.66   | 24    |        |

### GU10 Aluminium



| 50W        |        | 50W   |        |
|------------|--------|-------|--------|
| Open       | Closed | Open  | Closed |
| <b>25°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.45   | 1,250 |        |
| 2          | 0.89   | 313   |        |
| 3          | 1.33   | 139   |        |
| 4          | 1.77   | 78    |        |
| 5          | 2.21   | 50    |        |
| <b>50°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.93   | 600   |        |
| 2          | 1.87   | 150   |        |
| 3          | 2.8    | 67    |        |
| 4          | 3.73   | 38    |        |
| 5          | 4.66   | 24    |        |

### GU10 Britespot



| 50W        |        | 50W   |        |
|------------|--------|-------|--------|
| Open       | Closed | Open  | Closed |
| <b>24°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 0.425  | 7,000 |        |
| 2          | 0.85   | 1,750 |        |
| 3          | 1.3    | 700   |        |
| 4          | 1.7    | 440   |        |
| 5          | 2.1    | 280   |        |
| <b>60°</b> |        |       |        |
| m          | lux    | Øm    | lux    |
| 1          | 1.15   | 2,000 |        |
| 2          | 2.3    | 500   |        |
| 3          | 3.4    | 222   |        |
| 4          | 4.62   | 125   |        |
| 5          | 5.7    | 80    |        |

### GU10 Compact Fluorescent



| 11W         |        | 11W  |        |
|-------------|--------|------|--------|
| Open        | Closed | Open | Closed |
| <b>120°</b> |        |      |        |
| m           | lux    | Øm   | lux    |
| 0.5         | 1.7    | 440  |        |
| 1           | 3.4    | 110  |        |
| 1.5         | 5.09   | 49   |        |
| 2           | 6.79   | 28   |        |

### AR111



| 50W        |        | 50W    |        |
|------------|--------|--------|--------|
| Open       | Closed | Open   | Closed |
| <b>8°</b>  |        |        |        |
| m          | lux    | Øm     | lux    |
| 1          | 0.14   | 17,800 |        |
| 2          | 0.28   | 4,450  |        |
| 3          | 0.42   | 1,978  |        |
| 4          | 0.56   | 1,113  |        |
| 5          | 0.7    | 712    |        |
| <b>24°</b> |        |        |        |
| m          | lux    | Øm     | lux    |
| 1          | 0.43   | 3,000  |        |
| 2          | 0.85   | 750    |        |
| 3          | 1.28   | 333    |        |
| 4          | 1.7    | 188    |        |
| 5          | 2.13   | 120    |        |

All data is typical and for guidance only. Lamp performance should be verified prior to installation.