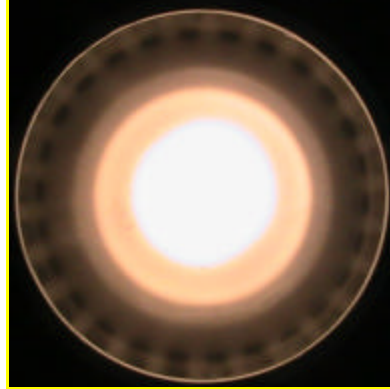




SPECIFICATION



P/N: LCP-MR16-5XXW-120-S



光圓科技股份有限公司

新竹市金山六街 55 號 1 樓 (新竹第二辦公室)

LED CIRCLE Technology Corporation

1F, No. 55, Jin-Shan 6th St., Hsin-Chu City 300, Taiwan, R.O.C. (Hsin-Chu 2nd Office)

TEL: +886-3-567-9283 Fax: +886-3-567-8764 Web : www.ledcircle.com; Email: philips@ledcircle.com

高品質的 LED 照明產品就在光圓科技===== LC p rovides high quality LED Lighting products



5W MR16 LED LIGHT SPECIFICATION **Unique LEDs Inside**

MECHANICAL SPEC

| | |
|-----------------|-----------------------|
| Housing | Aluminum;PC |
| Base type | GX5.3 Compatible base |
| Outer Dimension | 49mm × 38mm |
| Housing Color | Silver |
| Weight | 46gs |

ELECTRICAL SPEC

| | |
|-------------------|--|
| Power Requirement | 12V AC(20K~100KHz) Electrical AC Power |
| Power Consumption | Maximum 5W |
| Transformer spec | Low-Voltage Magnetic or Electronic to provide 12V AC |

ENVIRONMENTAL SPEC

| | |
|-------------------------------|---------------------|
| Operating Temperature | -20 ~ 40 |
| Storage Temperature | -40 ~ 80 |
| Humidity | 0~90% non condensed |
| Body Temperature ¹ | 65 |
| MTBF ² | >20,000hr |

OPTICAL SPEC

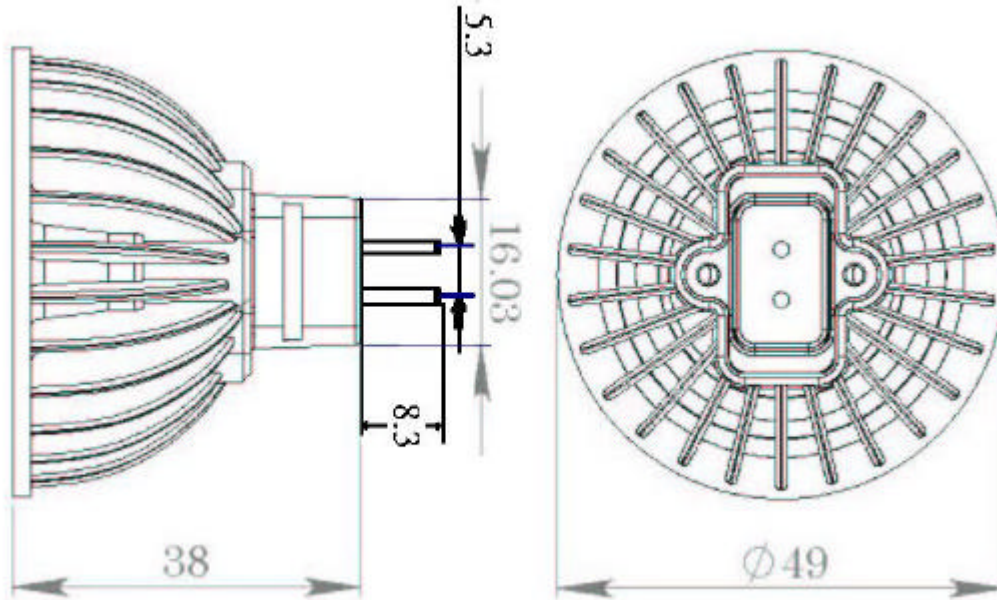
| | |
|------------------------------|--|
| Beam Angle | Flood Light 120±3° |
| Color Temperature And P/N | Warm White(2800K)->P/N: LCP-MR16-5WW-120-S Cold White (5000K) ->P/N: LCP-MR16-5CW-120-S Sun White(6500K, High Colour Rendering) ->P/N: LCP-MR16-5HSW-120-S |
| CRI | >75 Max: 95 (CP-MR16-5HSW-120-S) |

¹ Traditional MR16 surface temperature is higher than 130 °C.

² MTBF (Mean Time Between Failure) will effect by transformer.



DIMENSION



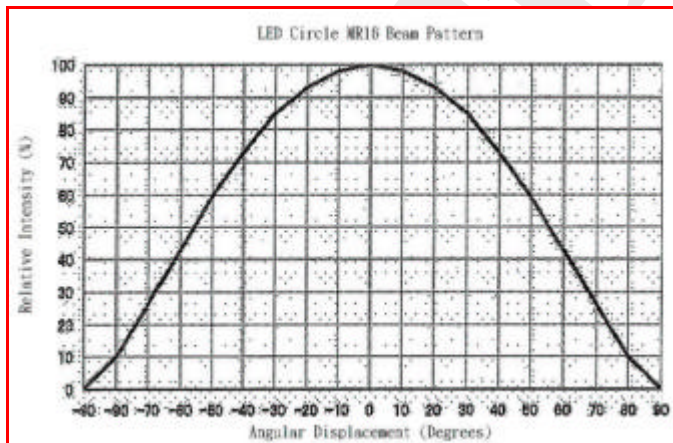
OPTICAL PERFORMANCE

(1) Beam Angle: 120 °

(2) Luminous Flux (LED) : Typ: 200lm(2800K Warm White and 6500K, High Colour Rendering Sun White), Typ: 280lm (5000K Cold White)

(3) Illuminance Distribution:

[LCP-MR16-5CW-120-S at 300mm ht](#)



| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 30 | 40 | 46 | 56 | 69 | 70 | 57 | 44 | 38 | 30 |
| 38 | 52 | 79 | 106 | 125 | 128 | 102 | 76 | 54 | 38 |
| 51 | 76 | 131 | 201 | 256 | 258 | 205 | 130 | 76 | 48 |
| 60 | 87 | 168 | 330 | 473 | 477 | 328 | 164 | 83 | 63 |
| 60 | 118 | 240 | 459 | 656 | 658 | 457 | 244 | 116 | 63 |
| 60 | 118 | 240 | 459 | 656 | 658 | 457 | 244 | 116 | 63 |
| 60 | 87 | 168 | 330 | 473 | 477 | 328 | 164 | 83 | 63 |
| 51 | 76 | 131 | 201 | 256 | 258 | 205 | 130 | 76 | 48 |
| 38 | 52 | 79 | 106 | 125 | 128 | 102 | 76 | 54 | 38 |
| 30 | 40 | 46 | 56 | 69 | 70 | 57 | 44 | 38 | 30 |

Unit: Lux

The test sample was positioned perpendicular to horizontal surface, the measurements were taken on every 100mm×100mm spot. The total area is 1000mm*1000mm.



LCP-MR16-5CW-120-S at 500mm ht

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 40 | 51 | 67 | 84 | 93 | 95 | 87 | 68 | 53 | 41 |
| 51 | 68 | 912 | 129 | 143 | 145 | 134 | 110 | 76 | 56 |
| 66 | 98 | 144 | 179 | 203 | 204 | 184 | 150 | 99 | 72 |
| 74 | 123 | 180 | 227 | 255 | 252 | 224 | 180 | 126 | 78 |
| 87 | 141 | 199 | 256 | 280 | 279 | 252 | 198 | 145 | 92 |
| 87 | 141 | 199 | 256 | 280 | 279 | 252 | 198 | 145 | 92 |
| 74 | 123 | 180 | 227 | 255 | 252 | 224 | 180 | 126 | 78 |
| 66 | 98 | 144 | 179 | 203 | 204 | 184 | 150 | 99 | 72 |
| 51 | 68 | 912 | 129 | 143 | 145 | 134 | 110 | 76 | 56 |
| 40 | 51 | 67 | 84 | 93 | 95 | 87 | 68 | 53 | 41 |

Unit: Lux

LCP-MR16-5WW-120-S at 300mm ht

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|----|----|
| 23 | 59 | 39 | 49 | 51 | 51 | 46 | 37 | 30 | 22 |
| 32 | 42 | 57 | 74 | 79 | 78 | 73 | 59 | 43 | 30 |
| 39 | 58 | 97 | 153 | 188 | 185 | 149 | 98 | 60 | 36 |
| 49 | 82 | 153 | 259 | 360 | 365 | 253 | 153 | 84 | 50 |
| 54 | 99 | 185 | 392 | 528 | 527 | 378 | 191 | 94 | 52 |
| 54 | 99 | 185 | 392 | 528 | 527 | 378 | 191 | 94 | 52 |
| 49 | 82 | 153 | 259 | 360 | 365 | 253 | 153 | 84 | 50 |
| 39 | 58 | 97 | 153 | 188 | 185 | 149 | 98 | 60 | 36 |
| 32 | 42 | 57 | 74 | 79 | 78 | 73 | 59 | 43 | 30 |
| 23 | 59 | 39 | 49 | 51 | 51 | 46 | 37 | 30 | 22 |

Unit: Lux

LCP-MR16-5CW-120-S at 1000mm ht

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 40 | 45 | 49 | 52 | 53 | 52 | 50 | 48 | 46 | 40 |
| 44 | 50 | 55 | 57 | 60 | 61 | 59 | 57 | 53 | 47 |
| 48 | 54 | 60 | 63 | 66 | 66 | 64 | 61 | 56 | 49 |
| 51 | 59 | 64 | 69 | 70 | 71 | 69 | 64 | 58 | 51 |
| 54 | 62 | 68 | 72 | 74 | 74 | 73 | 68 | 63 | 55 |
| 54 | 62 | 68 | 72 | 74 | 74 | 73 | 68 | 63 | 55 |
| 51 | 59 | 64 | 69 | 70 | 71 | 69 | 64 | 58 | 51 |
| 48 | 54 | 60 | 63 | 66 | 66 | 64 | 61 | 56 | 49 |
| 44 | 50 | 55 | 57 | 60 | 61 | 59 | 57 | 53 | 47 |
| 40 | 45 | 49 | 52 | 53 | 52 | 50 | 48 | 46 | 40 |

Unit: Lux

LCP-MR16-5WW-120-S at 500mm ht

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 27 | 35 | 50 | 56 | 67 | 66 | 54 | 50 | 34 | 28 |
| 37 | 51 | 71 | 89 | 101 | 100 | 91 | 75 | 54 | 38 |
| 51 | 74 | 108 | 137 | 151 | 152 | 140 | 111 | 73 | 51 |
| 57 | 90 | 134 | 170 | 189 | 188 | 168 | 135 | 90 | 58 |
| 64 | 102 | 151 | 192 | 210 | 211 | 196 | 158 | 105 | 66 |
| 64 | 102 | 151 | 192 | 210 | 211 | 196 | 158 | 105 | 66 |
| 57 | 90 | 134 | 170 | 189 | 188 | 168 | 135 | 90 | 58 |
| 51 | 74 | 108 | 137 | 151 | 152 | 140 | 111 | 73 | 51 |
| 37 | 51 | 71 | 89 | 101 | 100 | 91 | 75 | 54 | 38 |
| 27 | 35 | 50 | 56 | 67 | 66 | 54 | 50 | 34 | 28 |

Unit: Lux



LCP-MR16-5WW-120-S at 1000mm ht

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 32 | 36 | 38 | 40 | 43 | 43 | 41 | 39 | 35 | 31 |
| 35 | 39 | 43 | 46 | 47 | 48 | 47 | 44 | 40 | 35 |
| 37 | 43 | 47 | 50 | 51 | 51 | 50 | 47 | 43 | 38 |
| 41 | 45 | 49 | 52 | 55 | 54 | 53 | 50 | 46 | 41 |
| 41 | 46 | 52 | 54 | 56 | 57 | 55 | 52 | 47 | 42 |
| 41 | 46 | 52 | 54 | 56 | 57 | 55 | 52 | 47 | 42 |
| 41 | 45 | 49 | 52 | 55 | 54 | 53 | 50 | 46 | 41 |
| 37 | 43 | 47 | 50 | 51 | 51 | 50 | 47 | 43 | 38 |
| 35 | 39 | 43 | 46 | 47 | 48 | 47 | 44 | 40 | 35 |
| 32 | 36 | 38 | 40 | 43 | 43 | 41 | 39 | 35 | 31 |

Unit: Lux

LCP-MR16-5HSW-120-S at 500mm ht

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 26 | 35 | 44 | 58 | 63 | 62 | 56 | 44 | 34 | 26 |
| 35 | 51 | 71 | 86 | 98 | 97 | 88 | 71 | 50 | 34 |
| 45 | 70 | 97 | 123 | 144 | 141 | 127 | 96 | 69 | 46 |
| 55 | 84 | 124 | 160 | 180 | 181 | 159 | 125 | 82 | 53 |
| 66 | 105 | 151 | 186 | 204 | 205 | 182 | 141 | 99 | 63 |
| 66 | 105 | 151 | 186 | 204 | 205 | 182 | 141 | 99 | 63 |
| 55 | 84 | 124 | 160 | 180 | 181 | 159 | 125 | 82 | 53 |
| 45 | 70 | 97 | 123 | 144 | 141 | 127 | 96 | 69 | 46 |
| 35 | 51 | 71 | 86 | 98 | 97 | 88 | 71 | 50 | 34 |
| 26 | 35 | 44 | 58 | 63 | 62 | 56 | 44 | 34 | 26 |

Unit: Lux

LCP-MR16-5HSW-120-S at 300mm ht

| | | | | | | | | | |
|----|----|-----|-----|-----|-----|-----|-----|-----|----|
| 24 | 32 | 44 | 58 | 68 | 67 | 60 | 47 | 33 | 24 |
| 30 | 49 | 72 | 105 | 135 | 136 | 101 | 71 | 47 | 29 |
| 43 | 65 | 117 | 211 | 270 | 272 | 206 | 120 | 67 | 42 |
| 50 | 90 | 170 | 318 | 423 | 424 | 314 | 178 | 92 | 49 |
| 50 | 99 | 216 | 399 | 556 | 559 | 390 | 220 | 101 | 50 |
| 50 | 99 | 216 | 399 | 556 | 559 | 390 | 220 | 101 | 50 |
| 50 | 90 | 170 | 318 | 423 | 424 | 314 | 178 | 92 | 49 |
| 43 | 65 | 117 | 211 | 270 | 272 | 206 | 120 | 67 | 42 |
| 30 | 49 | 72 | 105 | 135 | 136 | 101 | 71 | 47 | 29 |
| 24 | 32 | 44 | 58 | 68 | 67 | 60 | 47 | 33 | 24 |

Unit: Lux

LCP-MR16-5HSW-120-S at 1000mm ht

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 31 | 35 | 39 | 41 | 43 | 43 | 42 | 40 | 36 | 32 |
| 35 | 39 | 43 | 46 | 47 | 47 | 46 | 43 | 39 | 36 |
| 39 | 43 | 48 | 51 | 53 | 53 | 51 | 48 | 44 | 40 |
| 41 | 47 | 52 | 54 | 56 | 56 | 55 | 52 | 47 | 41 |
| 43 | 48 | 51 | 55 | 58 | 58 | 56 | 52 | 48 | 43 |
| 43 | 48 | 51 | 55 | 58 | 58 | 56 | 52 | 48 | 43 |
| 41 | 47 | 52 | 54 | 56 | 56 | 55 | 52 | 47 | 41 |
| 39 | 43 | 48 | 51 | 53 | 53 | 51 | 48 | 44 | 40 |
| 35 | 39 | 43 | 46 | 47 | 47 | 46 | 43 | 39 | 36 |
| 31 | 35 | 39 | 41 | 43 | 43 | 42 | 40 | 36 | 32 |

Unit: Lux

The test sample was positioned perpendicular to horizontal surface, the measurements were taken on every 100mm×100mm spot. The total area is 1000mm*1000mm.



LED Circle Technology Corporation

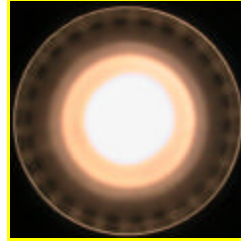
Web: www.ledcircle.com

E-mail: philips@ledcircle.com

Tel: +886-3-5679283

Fax: +886-3-5678764

OUTLINE



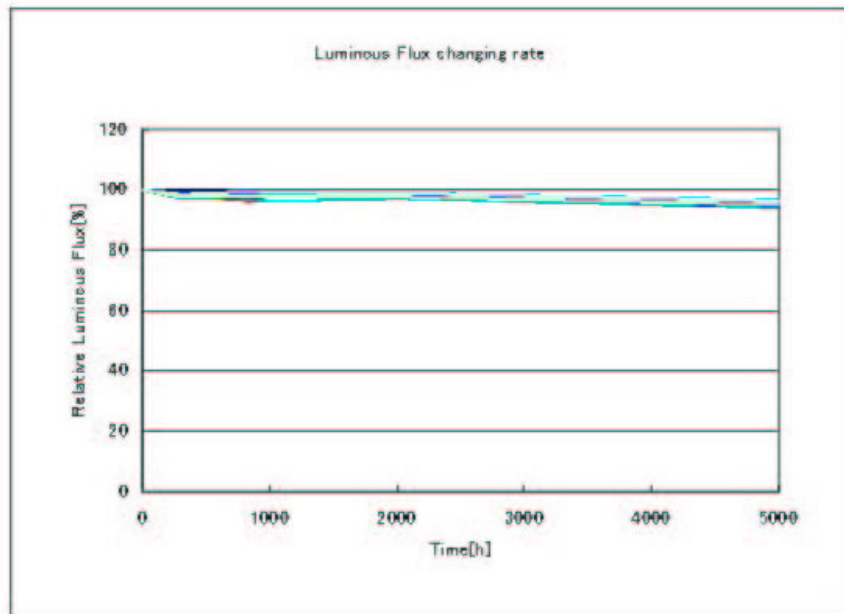
APPLICATIONS





LIFE CYCLE TEST RESULT

Luminous Flux



Important: Please contact our engineer to ensure installation and maintenance being properly executed to obtain maximum performance, efficiency and durability from the LED lighting product.

Disclaimer: While every care has been taken with the details on this specification sheet, we accept no responsibility for any inaccuracies and reserve the right to change these specifications without notice to always ensure that you are receiving a superior product.

光圓科技股份有限公司

新竹市金山六街 55 號 1 樓 (新竹第二辦公室)

LED CIRCLE Technology Corporation

1F, No. 55, Jin-Shan 6th St., Hsin-Chu City 300, Taiwan, R.O.C. (Hsin-Chu 2nd Office)

TEL: +886-3-567-9283 Fax: +886-3-567-8764 Web : www.ledcircle.com; Email: philips@ledcircle.com

高品質的 LED 照明產品就在光圓科技===== LC provides high quality LED Lighting products