MR16 AMBER



DESCRIPTION

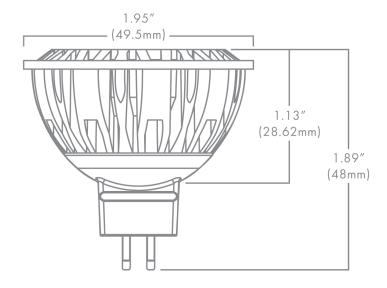
The Brilliance MR16 Bi-Pin is designed to fit in standard low voltage MR16 fixtures and offers a long lamp life. These LEDs are thermally engineered to operate in enclosed fixtures and provide added security by automatically cooling down and reducing lumen output when exposed to extreme heat, such as air temperatures above 125° F. There is no color shift when lumen output is reduced. Dimmable with Brilliance Dimmer and most magnetic transformers.

MR16 FEATURES

- Earth tone colored housing
- Dimmable with Brilliance Dimmer and most magnetic transformers
- Enhanced ESD (Electro-Static Discharge) protection (IEC-61000-4-2)
- Heat overload protection technology
- Fully potted PC board
- UL Certified E360351

MR16 SPECS

| Wattage | 4, 5 |
|-------------------|-------------|
| Beam Spread | 30 ° |
| Color | Amber |
| Operating Range | 8-25 VAC/DC |
| CRI | 85 |
| IP | 61 |
| Lamp Life (hours) | 50,000 |
| Warranty (years) | 5 |







WILDLIFE LIGHTING CERTIFICATION PROGRAM

Certification Number: 2018-036

Certification Requirements: Must be installed in a low mounted, downward directed and shielded fixture

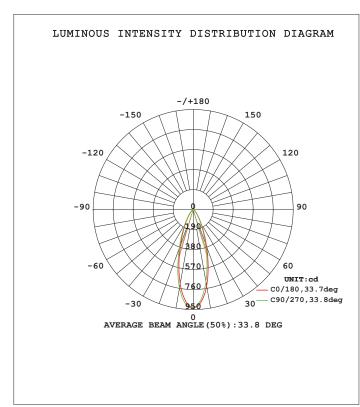


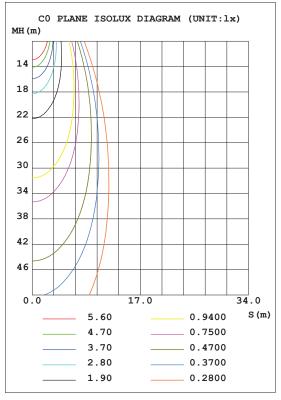


LUMINAIRE PHOTOMETRIC TEST REPORT

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: | |
|------------------------------|-------|-------------------|--|
| SPEC.: | DIM.: | SERIAL No.: | |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: | |

| DA | TA OF LAM | IP | PHOTOMETRIC DATA | | | | | | | | | |
|-----------|-----------|---------|------------------|--------|-------------------|----------|--|--|--|--|--|--|
| MODEL | | | Imax(cd) | 934.6 | S/MH(C0/180) | 0.56 | | | | | | |
| NOMINAL E | POWER (W) | 0 | LOR(%) | 97.5 | S/MH(C90/270) | 0.53 | | | | | | |
| RATED VOI | LTAGE (V) | 0 | TOTAL FLUX(lm) | 465.21 | η UP,DN(C0-180) | 0.0,47.0 | | | | | | |
| NOMINAL E | FLUX (lm) | 477.322 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,50.4 | | | | | | |
| LAMPS INS | SIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.50 | | | | | | |
| TEST VOLT | TAGE (V) | 0.0 | η down(%) | 97.5 | CIBSE SHR MAX | 0.60 | | | | | | |





C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:Zhu Test Date:2020-06-11 γ Range: 0 - 90DEG

y Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lam |
|-----|--------|--------|--------|--------|------------|--------|--------|--------|---------|--------|---------|-----------|
| 10 | 736.0 | 728.1 | 695.6 | 684.0 | 716.0 | 725.7 | 755.0 | 777.7 | 0- 10 | 78.68 | 78.68 | 16.9,16.5 |
| 20 | 368.5 | 372.1 | 338.2 | 339.0 | 353.6 | 374.5 | 388.0 | 420.4 | 10- 20 | 148.6 | 227.3 | 48.9,47.6 |
| 30 | 145.0 | 158.8 | 132.7 | 142.7 | 140.3 | 160.9 | 157.4 | 182.2 | 20- 30 | 111.7 | 339.0 | 72.9,71 |
| 40 | 55.75 | 62.97 | 50.57 | 56.37 | 53.32 | 63.81 | 60.77 | 71.93 | 30- 40 | 60.87 | 399.8 | 85.9,83.8 |
| 50 | 24.99 | 26.13 | 22.19 | 23.07 | 23.08 | 25.79 | 26.40 | 29.02 | 40- 50 | 30.11 | 430.0 | 92.4,90.1 |
| 60 | 14.44 | 13.96 | 12.69 | 13.27 | 12.86 | 13.58 | 14.35 | 14.52 | 50- 60 | 16.28 | 446.2 | 95.9,93.5 |
| 70 | 10.27 | 9.182 | 8.336 | 8.822 | 8.229 | 8.971 | 10.14 | 9.584 | 60- 70 | 11.38 | 457.6 | 98.4,95.9 |
| 80 | 3.378 | 3.244 | 2.775 | 2.195 | 2.967 | 2.979 | 3.443 | 4.054 | 70- 80 | 6.524 | 464.1 | 99.8,97.2 |
| 90 | 0.0753 | 0.0324 | 0.0347 | 0.0347 | 0.0237 | 0.0216 | 0.0217 | 0.0260 | 80- 90 | 1.078 | 465.2 | 100,97.5 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | | | | LUMINO | OUS INTENS | ITY:cd | 1 | 1 | | UNI | T:lm | |

Humidity:65.0%

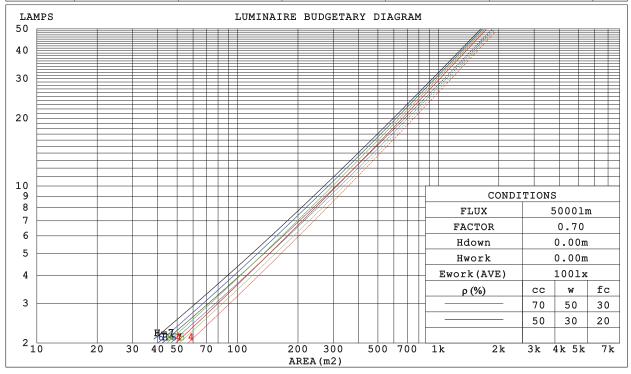
Test Distance: 5.833m [K=1.0000]



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: |
|------------------------------|-------|-------------------|
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: |

| ραα | | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | 0 |
|------|-------|--------|---------|------|------|------|--------|--------|--------|--------|------|------|-----|-----|-----|-----|
| ρW | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | 0 |
| RCR | RCR:R | oom Ca | vity Ra | atio | | Coe | fficie | nts of | Utili: | zation | (CU) | | | | | |
| 0.0 | 1.16 | 1.16 | 1.16 | 1.13 | 1.13 | 1.13 | 1.08 | 1.08 | 1.08 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0 | 1.08 | 1.05 | 1.03 | 1.05 | 1.03 | 1.01 | 1.01 | .00 | .98 | .98 | .96 | .95 | .94 | .93 | .92 | .91 |
| 2.0 | .00 | .96 | .92 | .98 | .94 | .91 | .95 | .92 | .89 | .92 | .90 | .87 | .89 | .87 | .86 | .84 |
| 3.0 | .93 | .88 | .84 | .92 | .87 | .84 | .89 | .85 | .82 | .87 | .84 | .81 | .85 | .82 | .80 | .78 |
| 4.0 | .87 | .82 | .78 | .86 | .81 | .77 | .84 | .80 | .76 | .82 | .78 | .75 | .80 | .77 | .75 | .73 |
| 5.0 | .82 | .76 | .72 | .81 | .76 | .72 | .79 | .75 | .71 | .78 | .74 | .71 | .76 | .73 | .70 | .69 |
| 6.0 | .78 | .72 | .68 | .77 | .71 | .67 | .75 | .71 | .67 | .74 | .70 | .67 | .73 | .69 | .66 | .65 |
| 7.0 | .73 | .68 | .64 | .73 | .67 | .64 | .72 | .67 | .63 | .70 | .66 | .63 | .69 | .65 | .63 | .61 |
| 8.0 | .70 | .64 | .60 | .69 | .64 | .60 | .68 | .63 | .60 | .67 | .63 | .60 | .66 | .62 | .59 | .58 |
| 9.0 | .66 | .61 | .57 | .66 | .61 | .57 | .65 | .60 | .57 | .64 | .60 | .57 | .63 | .59 | .56 | .55 |
| 10.0 | .63 | .58 | .54 | .63 | .58 | .54 | .62 | .57 | .54 | .61 | .57 | .54 | .61 | .57 | .54 | .53 |



C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators:Zhu Test Date:2020-06-11

γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



WEC AND CCEC

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: |
|------------------------------|-------|-------------------|
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: |

| ροο | | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | (|
|------|-------|--------|--------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|---|
| ρW | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | (|
| ρfc | | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | (|
| RCR | RCR:F | Room C | Cavity | Rati | .0 | | | Wall | Exita | nce C | oeffc | ients | (WEC) | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .182 | .103 | .033 | .175 | .100 | .032 | .163 | .093 | .030 | .151 | .087 | .028 | .141 | .082 | .026 | |
| 2.0 | .172 | .094 | .029 | .167 | .092 | .028 | .156 | .087 | .027 | .147 | .082 | .026 | .138 | .078 | .025 | |
| 3.0 | .162 | .086 | .026 | .157 | .084 | .025 | .148 | .080 | .024 | .140 | .077 | .024 | .133 | .073 | .023 | |
| 4.0 | .152 | .079 | .023 | .148 | .078 | .023 | .141 | .075 | .022 | .134 | .072 | .022 | .127 | .069 | .021 | |
| 5.0 | .144 | .073 | .021 | .140 | .072 | .021 | .133 | .070 | .020 | .127 | .067 | .020 | .122 | .065 | .020 | |
| 6.0 | .136 | .068 | .019 | .133 | .067 | .019 | .127 | .065 | .019 | .121 | .063 | .019 | .116 | .061 | .018 | |
| 7.0 | .129 | .064 | .018 | .126 | .063 | .018 | .121 | .061 | .018 | .116 | .060 | .017 | .112 | .058 | .017 | |
| 8.0 | .122 | .060 | .017 | .120 | .059 | .017 | .115 | .058 | .016 | .111 | .056 | .016 | .107 | .055 | .016 | |
| 9.0 | .117 | .056 | .016 | .114 | .056 | .016 | .110 | .055 | .015 | .106 | .053 | .015 | .103 | .052 | .015 | |
| 10.0 | .111 | .053 | .015 | .109 | .053 | .015 | .106 | .052 | .015 | .102 | .051 | .014 | .099 | .050 | .014 | |

| ραα | | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | 0 |
|------|-------|--------|--------|------|------|------|-------|--------|-------|-------|-------|-------|-------|--------|------|---|
| ρW | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | 0 |
| RCR | RCR:F | Room C | Cavity | Rati | 0 | C | eilin | ıg Cav | ity E | xitan | ce Co | effic | ients | (CCEC) |) | |
| 0.0 | .186 | .186 | .186 | .159 | .159 | .159 | .108 | .108 | .108 | .062 | .062 | .062 | .020 | .020 | .020 | |
| 1.0 | .167 | .153 | .140 | .143 | .132 | .121 | .098 | .090 | .084 | .056 | .052 | .049 | .018 | .017 | .016 | |
| 2.0 | .153 | .129 | .109 | .131 | .111 | .094 | .090 | .077 | .066 | .052 | .045 | .039 | .017 | .014 | .013 | |
| 3.0 | .141 | .111 | .087 | .121 | .096 | .075 | .083 | .066 | .053 | .048 | .039 | .031 | .015 | .013 | .010 | |
| 4.0 | .131 | .096 | .070 | .112 | .083 | .061 | .077 | .058 | .043 | .045 | .034 | .025 | .014 | .011 | .008 | |
| 5.0 | .122 | .085 | .058 | .105 | .074 | .050 | .072 | .051 | .036 | .042 | .030 | .021 | .013 | .010 | .007 | |
| 6.0 | .114 | .076 | .049 | .098 | .066 | .042 | .068 | .046 | .030 | .039 | .027 | .018 | .013 | .009 | .006 | |
| 7.0 | .107 | .069 | .041 | .092 | .059 | .036 | .064 | .042 | .025 | .037 | .025 | .015 | .012 | .008 | .005 | |
| 8.0 | .102 | .062 | .035 | .087 | .054 | .031 | .060 | .038 | .022 | .035 | .022 | .013 | .011 | .007 | .004 | |
| 9.0 | .096 | .057 | .031 | .083 | .050 | .027 | .057 | .035 | .019 | .033 | .021 | .011 | .011 | .007 | .004 | |
| 10.0 | .092 | .053 | .027 | .079 | .046 | .024 | .055 | .032 | .017 | .032 | .019 | .010 | .010 | .006 | .003 | |

C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH

Temperature:25.3DEG Operators:Zhu

Test Date:2020-06-11

 γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



Uncorrected UGR Table

| NAME: MR16 5W 2700K 30Degree | | | | | T | TYPE: WEIGHT: | | | | | |
|---|--------|----------|-------|-----------|------|---------------|---------------|-----|-----------|----------|-----|
| SPEC.: | | | | | D | IM.: | | | SERIAL No | · . : | |
| MFR.: Brill | liance | .led.llc | | | S | UR.: | | | PROTECTIO | N ANGLE: | |
| ceiling/ca | vity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| w | alls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working p | lane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimens | ions | | Viewe | ed crossv | wise | | | Vi | ewed endw | Lse | |
| x = 2H y = | 2Н | 5.7 | 6.6 | 5.9 | 6.8 | 6.9 | 5.2 | 6.2 | 5.4 | 6.3 | 6.5 |
| | 3н | 6.6 | 7.5 | 6.9 | 7.7 | 7.9 | 6.0 | 6.9 | 6.3 | 7.1 | 7.3 |
| | 4 H | 7.1 | 7.9 | 7.3 | 8.1 | 8.3 | 6.4 | 7.2 | 6.6 | 7.4 | 7.6 |
| | 6Н | 7.3 | 8.1 | 7.6 | 8.3 | 8.6 | 6.5 | 7.3 | 6.8 | 7.6 | 7.8 |
| | 8н | 7.3 | 8.1 | 7.7 | 8.3 | 8.6 | 6.5 | 7.3 | 6.9 | 7.5 | 7.8 |
| | 12H | 7.3 | 8.1 | 7.7 | 8.3 | 8.6 | 6.5 | 7.2 | 6.8 | 7.5 | 7.8 |
| 4 H | 2H | 5.9 | 6.7 | 6.2 | 6.9 | 7.2 | 5.5 | 6.3 | 5.8 | 6.6 | 6.8 |
| | 3н | 7.1 | 7.8 | 7.4 | 8.1 | 8.3 | 6.6 | 7.3 | 6.9 | 7.5 | 7.8 |
| | 4 H | 7.6 | 8.3 | 8.0 | 8.6 | 8.9 | 7.0 | 7.7 | 7.3 | 8.0 | 8.3 |
| | 6Н | 8.0 | 8.6 | 8.4 | 8.9 | 9.2 | 7.3 | 7.9 | 7.7 | 8.2 | 8.5 |
| | 8н | 8.0 | 8.6 | 8.4 | 8.9 | 9.3 | 7.3 | 7.8 | 7.7 | 8.2 | 8.5 |
| | 12H | 8.1 | 8.6 | 8.5 | 8.9 | 9.3 | 7.2 | 7.7 | 7.7 | 8.1 | 8.5 |
| 8н | 4 H | 7.8 | 8.3 | 8.2 | 8.7 | 9.0 | 7.2 | 7.7 | 7.6 | 8.1 | 8.4 |
| | 6н | 8.2 | 8.6 | 8.6 | 9.0 | 9.4 | 7.5 | 8.0 | 8.0 | 8.4 | 8.8 |
| | 8н | 8.3 | 8.7 | 8.7 | 9.1 | 9.5 | 7.6 | 8.0 | 8.0 | 8.4 | 8.8 |
| | 12H | 8.3 | 8.7 | 8.8 | 9.1 | 9.6 | 7.5 | 7.9 | 8.0 | 8.3 | 8.8 |
| 12H | 4 H | 7.7 | 8.2 | 8.2 | 8.6 | 9.0 | 7.2 | 7.7 | 7.6 | 8.0 | 8.4 |
| | 6н | 8.2 | 8.6 | 8.6 | 9.0 | 9.4 | 7.5 | 7.9 | 8.0 | 8.4 | 8.8 |
| | 8н | 8.3 | 8.6 | 8.8 | 9.1 | 9.5 | 7.6 | 7.9 | 8.1 | 8.4 | 8.8 |
| Variations with the observer position at sp | | | | | | ıgs: | | | | | |
| S = 1.0F | H | | + 0 | .6 / - 0 | . 8 | | + 0.7 / - 0.9 | | | | |
| 1.5F | I | | + 1 | .0 / - 0 | .7 | | + 1.1 / - 0.9 | | | | |
| 2.0F | I | | + 1 | .1 / - 0 | .6 | | | + | 1.1 / - 0 | .8 | |

CIE Pub.117 Corrected 477.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.6)

C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH

Temperature:25.3DEG Operators:Zhu

Test Date:2020-06-11

 γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



UTILIZATION FACTORS TABLE

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: |
|------------------------------|-------|-------------------|
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: |

| REFLECTANCE | | | | | | | | | | | | | |
|----------------|-----------|---|-----|--------|-------|-------|-----|-----|----------|--------|--|--|--|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 | | | |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 | | | |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 | | | |
| ROOM INDEX | | UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5 | | | | | | | | | | | |
| k = 0.60 | 81 | 74 | 70 | 80 | 74 | 70 | 79 | 73 | 69 | 66 | | | |
| 0.80 | 88 | 82 | 78 | 88 | 82 | 78 | 86 | 81 | 77 | 73 | | | |
| 1.00 | 93 | 87 | 83 | 92 | 87 | 83 | 91 | 87 | 82 | 78 | | | |
| 1.25 | 98 | 92 | 88 | 97 | 91 | 88 | 95 | 90 | 87 | 82 | | | |
| 1.50 | 101 | 95 | 91 | 99 | 95 | 91 | 97 | 93 | 90 | 85 | | | |
| 2.00 | 104 | 99 | 96 | 102 | 98 | 95 | 100 | 96 | 93 | 88 | | | |
| 2.50 | 106 | 102 | 98 | 104 | 100 | 97 | 101 | 98 | 95 | 89 | | | |
| 3.00 | 108 | 104 | 101 | 106 | 102 | 100 | 102 | 100 | 97 | 91 | | | |
| 4.00 | 110 | 107 | 104 | 108 | 105 | 103 | 104 | 102 | 100 | 93 | | | |
| 5.00 | 111 | 109 | 107 | 109 | 107 | 105 | 105 | 103 | 102 | 94 | | | |
| ROOM INDEX | | | | UF (to | otal) | | | | | Direct | | | |
| According to D | IN EN 130 | 32-2 2004 | | | Susp | ended | | | SHRNOM = | 1.25 | | | |

C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH

Temperature:25.3DEG Operators:Zhu

Test Date:2020-06-11

 γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280

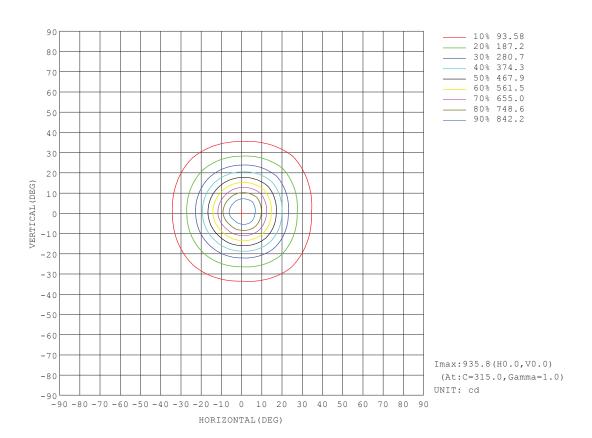
Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



ISOCANDELA DIAGRAM

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: | |
|------------------------------|-------|-------------------|--|
| SPEC.: | DIM.: | SERIAL No.: | |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: | |



C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature: 25.3DEG

Operators:Zhu

Test Date:2020-06-11

γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

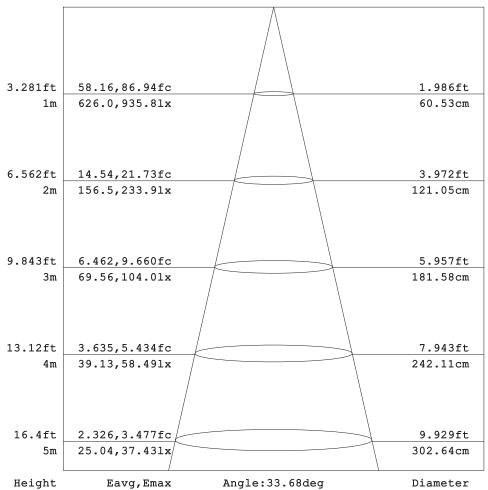
Test Distance: 5.833m [K=1.0000]



AAI Figure

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: |
|------------------------------|-------|-------------------|
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: |





Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH

Temperature: 25.3DEG Operators: Zhu

Test Date:2020-06-11

γ Range: 0 - 90DEG

y Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280

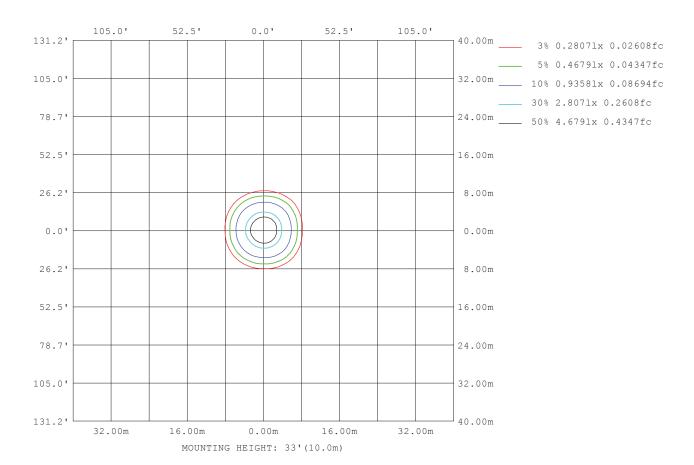
Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



ISOLUX DIAGRAM

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: |
|------------------------------|-------|-------------------|
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature: 25.3DEG

Operators:Zhu

Test Date:2020-06-11

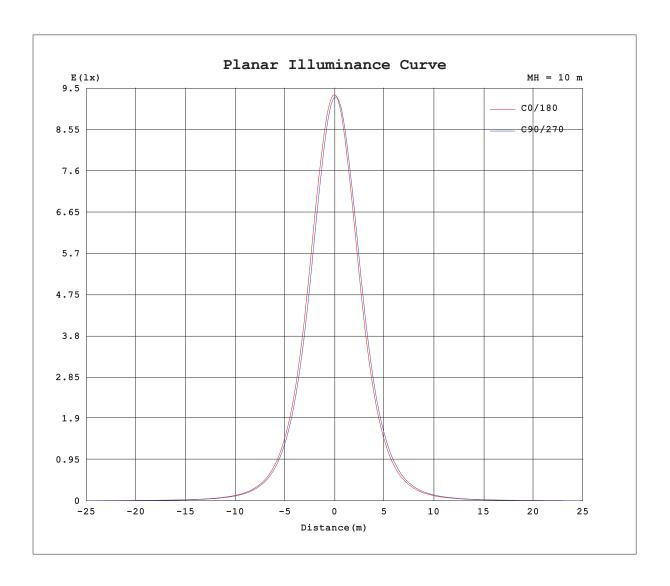
γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance: 5.833m [K=1.0000]



Planar Illuminance Curve



C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature: 25.3DEG

Operators:Zhu Test Date:2020-06-11

γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance:5.833m [K=1.0000]



LUMINOUS DISTRIBUTION INTENSITY DATA

| NAME: MR16 5W 2700K 30Degree | TYPE: | WEIGHT: |
|------------------------------|-------|-------------------|
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Brilliance.led.llc | SUR.: | PROTECTION ANGLE: |

| Table1 | | | | | | | | | | | | UNI | T: cd | |
|---------|------|------|------|------|------|------|------|------|--|--|--|-----|-------|--|
| C (DEG) | | | | | | | | | | | | | | |
| γ (DEG) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | | | | | | |
| 0 | 931 | 931 | 931 | 931 | 931 | 931 | 931 | 931 | | | | | | |
| 5 | 879 | 875 | 856 | 845 | 868 | 875 | 893 | 904 | | | | | | |
| 10 | 736 | 728 | 696 | 684 | 716 | 726 | 755 | 778 | | | | | | |
| 15 | 548 | 542 | 505 | 499 | 526 | 541 | 570 | 599 | | | | | | |
| 20 | 368 | 372 | 338 | 339 | 354 | 374 | 388 | 420 | | | | | | |
| 25 | 236 | 247 | 215 | 224 | 227 | 250 | 252 | 281 | | | | | | |
| 30 | 145 | 159 | 133 | 143 | 140 | 161 | 157 | 182 | | | | | | |
| 35 | 89.3 | 100 | 81.9 | 89.7 | 86.1 | 102 | 97.3 | 115 | | | | | | |
| 40 | 55.8 | 63.0 | 50.6 | 56.4 | 53.3 | 63.8 | 60.8 | 71.9 | | | | | | |
| 45 | 36.3 | 40.0 | 32.4 | 35.6 | 34.0 | 40.3 | 39.2 | 45.4 | | | | | | |
| 50 | 25.0 | 26.1 | 22.2 | 23.1 | 23.1 | 25.8 | 26.4 | 29.0 | | | | | | |
| 55 | 18.2 | 18.1 | 16.2 | 16.5 | 16.5 | 17.7 | 18.8 | 19.5 | | | | | | |
| 60 | 14.4 | 14.0 | 12.7 | 13.3 | 12.9 | 13.6 | 14.3 | 14.5 | | | | | | |
| 65 | 12.5 | 11.6 | 10.7 | 11.4 | 10.7 | 11.2 | 12.2 | 11.9 | | | | | | |
| 70 | 10.3 | 9.18 | 8.34 | 8.82 | 8.23 | 8.97 | 10.1 | 9.58 | | | | | | |
| 75 | 7.11 | 6.05 | 5.45 | 5.35 | 5.52 | 6.04 | 7.23 | 6.73 | | | | | | |
| 80 | 3.38 | 3.24 | 2.78 | 2.20 | 2.97 | 2.98 | 3.44 | 4.05 | | | | | | |
| 85 | 0.91 | 0.63 | 0.24 | 0.20 | 0.33 | 0.53 | 0.85 | 0.93 | | | | | | |
| 90 | 0.08 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 | | | | | | |
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C Range: 0 - 360DEG C Interval: 45.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:Zhu Test Date:2020-06-11

 γ Range: 0 - 90DEG γ Interval: 1.0DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.280

Humidity:65.0%

Test Distance: 5.833m [K=1.0000]