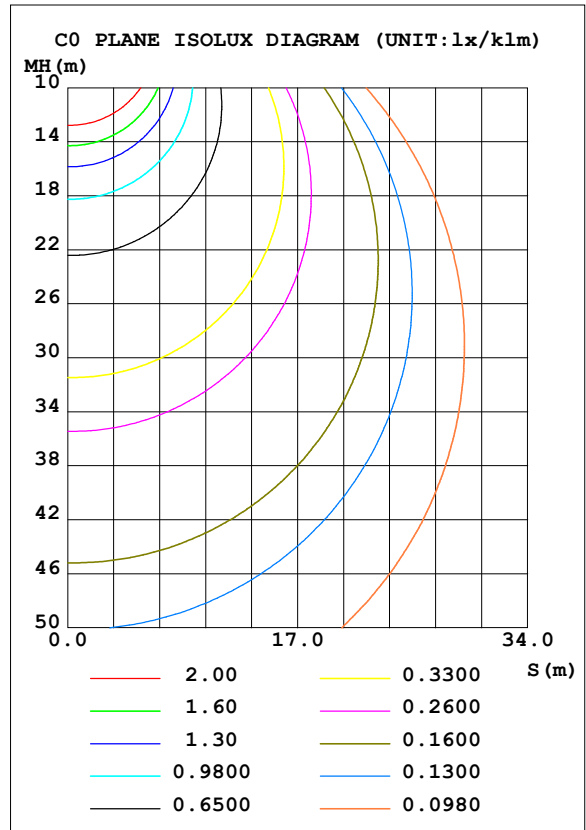
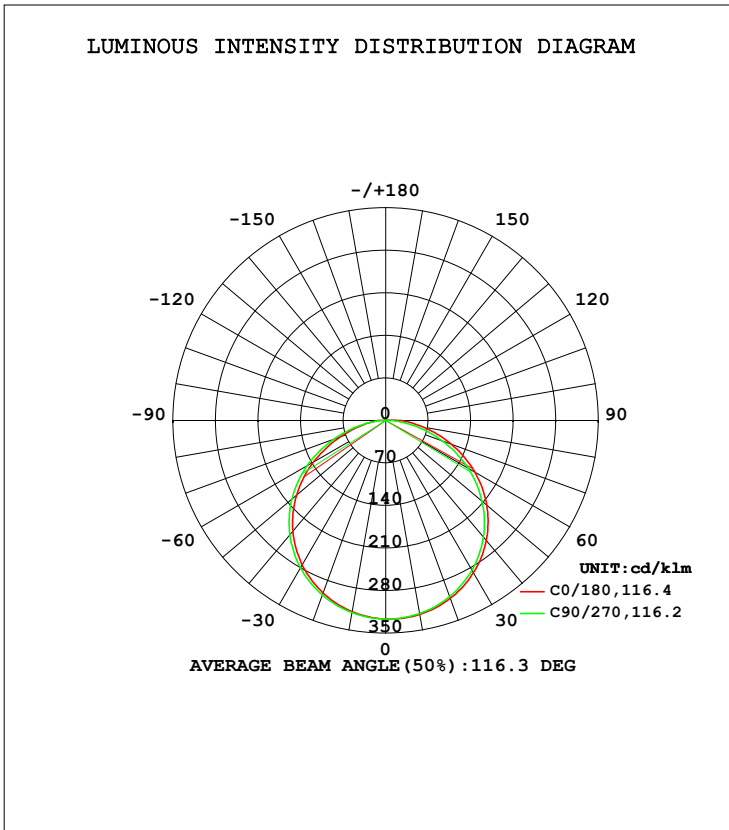


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2(MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10(MM) | Shielding Angle:120 |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 109.23 lm/W | | | |
|------------------|----------|-----------------------------------|---------|--------------------|----------|
| MODEL | SMD /LED | I _{max} (cd/klm) | 327.5 | S/MH(C0/180) | 1.25 |
| NOMINAL POWER(W) | 14.56 | LOR(%) | 100.0 | S/MH(C90/270) | 1.28 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm/klm) | 1000.00 | η UP, DN(C0-180) | 0.8,49.8 |
| NOMINAL FLUX(lm) | 1591.27 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 0.7,48.6 |
| LAMPS INSIDE | 1 | η up(%) | 1.5 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 24 | η down(%) | 98.5 | CIBSE SHR MAX | 1.35 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

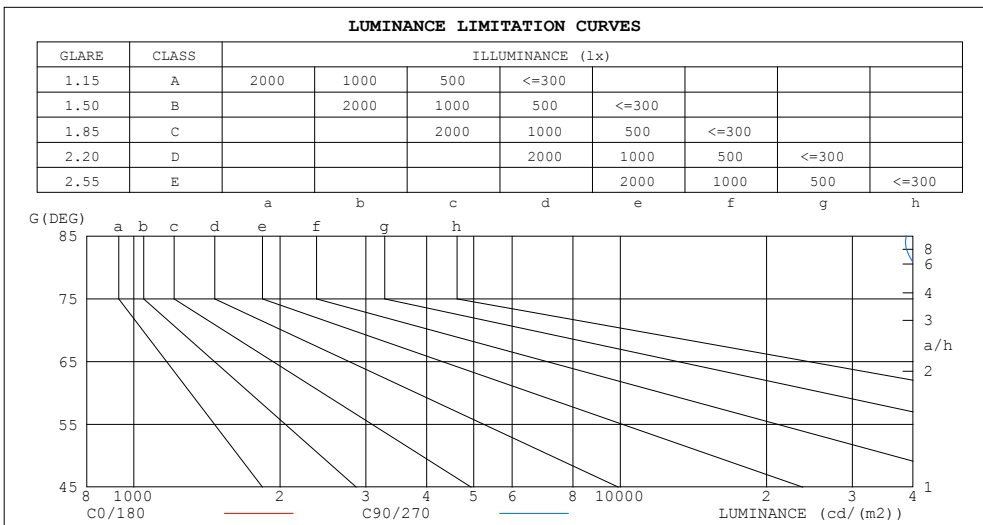
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|---------------------------|-------|--------|-------|-------|-------|--------|--------|----------|-------------|--------------|------------|
| 10 | 324.1 | 324.2 | 322.4 | 318.9 | 319.5 | 319.1 | 321.1 | 324.4 | 0- 10 | 30.95 | 30.95 | 3.1,3.1 |
| 20 | 311.4 | 311.9 | 308.2 | 301.3 | 301.9 | 301.6 | 305.6 | 312.4 | 10- 20 | 89.10 | 120.0 | 12,12 |
| 30 | 289.2 | 289.9 | 284.2 | 274.0 | 274.9 | 274.4 | 280.3 | 290.6 | 20- 30 | 136.3 | 256.4 | 25.6,25.6 |
| 40 | 257.7 | 258.3 | 250.3 | 236.8 | 237.8 | 237.3 | 245.6 | 259.5 | 30- 40 | 166.5 | 422.9 | 42.3,42.3 |
| 50 | 217.3 | 217.6 | 207.2 | 190.2 | 191.6 | 191.2 | 201.5 | 219.3 | 40- 50 | 175.3 | 598.2 | 59.8,59.8 |
| 60 | 169.0 | 168.8 | 156.3 | 135.9 | 137.9 | 137.3 | 149.6 | 168.7 | 50- 60 | 160.6 | 758.7 | 75.9,75.9 |
| 70 | 115.1 | 114.1 | 99.68 | 78.59 | 79.88 | 78.72 | 91.53 | 115.8 | 60- 70 | 123.7 | 882.5 | 88.2,88.2 |
| 80 | 62.25 | 59.37 | 44.04 | 29.95 | 33.30 | 29.71 | 37.18 | 61.04 | 70- 80 | 73.52 | 956.0 | 95.6,95.6 |
| 90 | 22.35 | 18.97 | 2.578 | 6.539 | 9.622 | 6.467 | 0.4637 | 19.61 | 80- 90 | 28.59 | 984.6 | 98.5,98.5 |
| 100 | 3.371 | 2.243 | 0.8364 | 1.283 | 1.362 | 1.060 | 0.7756 | 2.410 | 90-100 | 5.674 | 990.2 | 99,99 |
| 110 | 1.098 | 1.144 | 1.249 | 1.427 | 1.134 | 1.223 | 1.151 | 0.9970 | 100-110 | 1.289 | 991.5 | 99.2,99.2 |
| 120 | 1.452 | 1.436 | 1.651 | 1.826 | 1.527 | 1.654 | 1.551 | 1.320 | 110-120 | 1.354 | 992.9 | 99.3,99.3 |
| 130 | 1.843 | 1.866 | 2.029 | 2.188 | 1.898 | 2.029 | 1.931 | 1.695 | 120-130 | 1.569 | 994.5 | 99.4,99.4 |
| 140 | 2.207 | 2.219 | 2.350 | 2.494 | 2.239 | 2.365 | 2.263 | 2.058 | 130-140 | 1.631 | 996.1 | 99.6,99.6 |
| 150 | 2.579 | 2.571 | 2.653 | 2.770 | 2.595 | 2.677 | 2.583 | 2.444 | 140-150 | 1.534 | 997.6 | 99.8,99.8 |
| 160 | 2.842 | 2.826 | 2.853 | 2.951 | 2.863 | 2.892 | 2.796 | 2.718 | 150-160 | 1.262 | 998.9 | 99.9,99.9 |
| 170 | 3.018 | 2.990 | 2.974 | 3.030 | 3.023 | 3.021 | 2.970 | 2.918 | 160-170 | 0.8267 | 999.7 | 100,100 |
| 180 | 3.062 | 3.034 | 2.996 | 3.012 | 3.051 | 3.026 | 2.994 | 2.995 | 170-180 | 0.2871 | 1000.0 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd/klm | | | | | | | | | UNIT:lm/klm | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

LUMINANCE LIMITATION CURVES

| | | |
|---|----------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2 (MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10 (MM) | Shielding Angle:120 |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 73463 | 38693 |
| 80 | 57042 | 40364 |
| 75 | 53972 | 43633 |
| 70 | 53524 | 46382 |
| 65 | 53640 | 48360 |
| 60 | 53769 | 49745 |
| 55 | 53849 | 50683 |
| 50 | 53795 | 51305 |
| 45 | 53667 | 51735 |

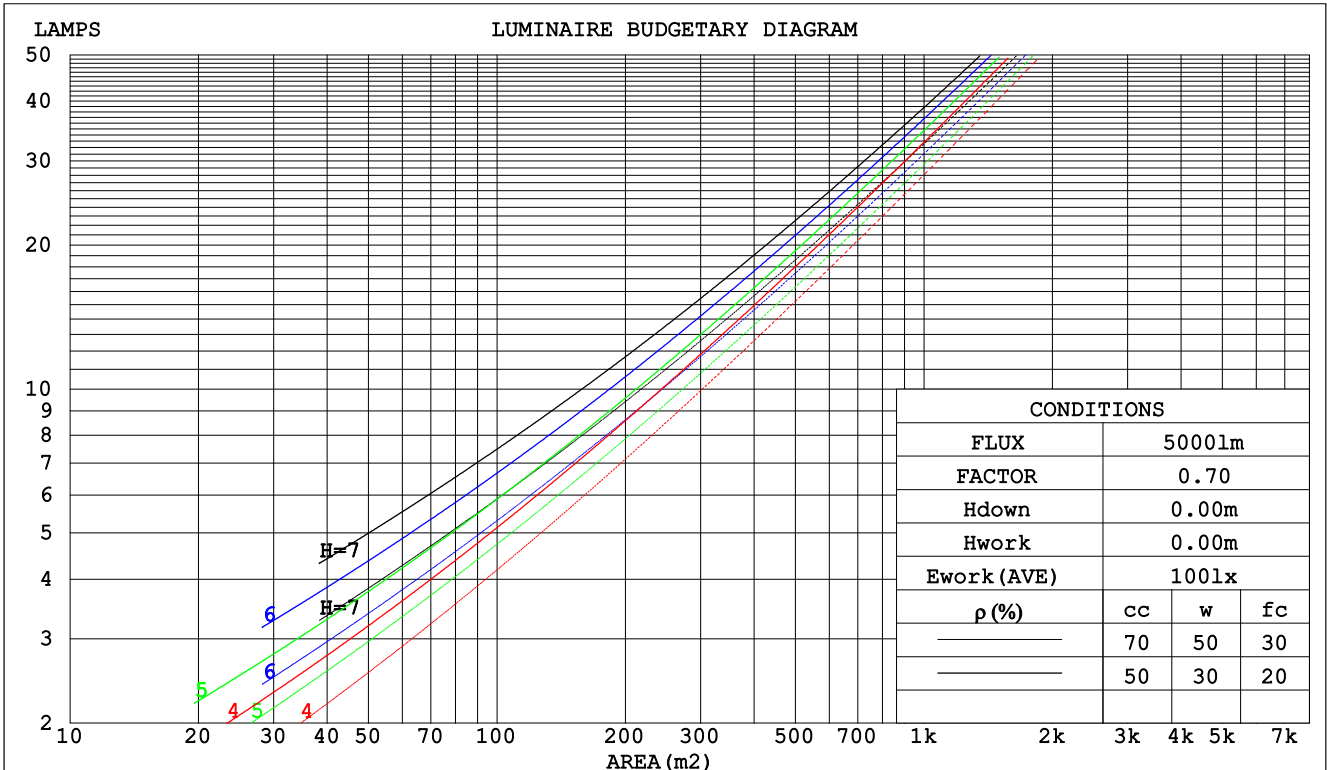
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|----------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2 (MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10 (MM) | Shielding Angle:120 |

| | | | | | | | | | | | | | | | | |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | .98 |
| 1.0 | 1.03 | .98 | .94 | 1.00 | .96 | .93 | .96 | .92 | .89 | .92 | .89 | .86 | .88 | .86 | .83 | .81 |
| 2.0 | .89 | .82 | .76 | .87 | .81 | .75 | .83 | .78 | .73 | .80 | .75 | .71 | .77 | .73 | .69 | .67 |
| 3.0 | .78 | .70 | .63 | .76 | .69 | .62 | .73 | .67 | .61 | .70 | .65 | .60 | .67 | .63 | .59 | .56 |
| 4.0 | .69 | .60 | .53 | .68 | .59 | .53 | .65 | .58 | .52 | .62 | .56 | .51 | .60 | .55 | .50 | .48 |
| 5.0 | .62 | .52 | .46 | .60 | .52 | .45 | .58 | .50 | .45 | .56 | .49 | .44 | .54 | .48 | .43 | .41 |
| 6.0 | .55 | .46 | .40 | .54 | .46 | .39 | .52 | .45 | .39 | .50 | .44 | .39 | .49 | .43 | .38 | .36 |
| 7.0 | .50 | .41 | .35 | .49 | .41 | .35 | .48 | .40 | .34 | .46 | .39 | .34 | .44 | .38 | .34 | .32 |
| 8.0 | .46 | .37 | .31 | .45 | .37 | .31 | .43 | .36 | .31 | .42 | .35 | .30 | .41 | .35 | .30 | .28 |
| 9.0 | .42 | .34 | .28 | .41 | .33 | .28 | .40 | .33 | .28 | .39 | .32 | .27 | .38 | .32 | .27 | .25 |
| 10.0 | .39 | .31 | .25 | .38 | .30 | .25 | .37 | .30 | .25 | .36 | .29 | .25 | .35 | .29 | .25 | .23 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

WEC AND CCEC

| | | |
|---|---------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2(MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10(MM) | Shielding Angle:120 |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .323 | .184 | .058 | .315 | .180 | .057 | .301 | .173 | .055 | .288 | .166 | .053 | .276 | .160 | .052 | |
| 2.0 | .300 | .164 | .050 | .293 | .161 | .050 | .280 | .156 | .048 | .269 | .151 | .047 | .258 | .146 | .046 | |
| 3.0 | .275 | .147 | .044 | .269 | .144 | .043 | .258 | .140 | .043 | .248 | .136 | .042 | .238 | .132 | .041 | |
| 4.0 | .253 | .132 | .039 | .248 | .130 | .038 | .238 | .126 | .038 | .229 | .123 | .037 | .220 | .120 | .036 | |
| 5.0 | .233 | .119 | .034 | .229 | .117 | .034 | .220 | .114 | .034 | .212 | .112 | .033 | .204 | .109 | .033 | |
| 6.0 | .216 | .108 | .031 | .212 | .107 | .031 | .204 | .105 | .030 | .197 | .102 | .030 | .190 | .100 | .030 | |
| 7.0 | .201 | .099 | .028 | .197 | .098 | .028 | .190 | .096 | .028 | .183 | .094 | .027 | .177 | .092 | .027 | |
| 8.0 | .187 | .091 | .026 | .184 | .091 | .026 | .178 | .089 | .025 | .172 | .087 | .025 | .166 | .085 | .025 | |
| 9.0 | .175 | .085 | .024 | .172 | .084 | .024 | .167 | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 | |
| 10.0 | .165 | .079 | .022 | .162 | .078 | .022 | .157 | .077 | .022 | .152 | .075 | .021 | .147 | .074 | .021 | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .202 | .202 | .202 | .173 | .173 | .173 | .118 | .118 | .118 | .068 | .068 | .068 | .022 | .022 | .022 | |
| 1.0 | .193 | .168 | .145 | .165 | .144 | .125 | .113 | .099 | .086 | .065 | .057 | .050 | .021 | .018 | .016 | |
| 2.0 | .185 | .144 | .109 | .159 | .124 | .094 | .109 | .086 | .066 | .063 | .050 | .039 | .020 | .016 | .013 | |
| 3.0 | .178 | .126 | .086 | .152 | .109 | .074 | .104 | .076 | .052 | .060 | .044 | .031 | .019 | .014 | .010 | |
| 4.0 | .170 | .113 | .070 | .146 | .098 | .061 | .100 | .068 | .043 | .058 | .040 | .025 | .019 | .013 | .008 | |
| 5.0 | .162 | .103 | .059 | .139 | .089 | .051 | .096 | .062 | .036 | .056 | .036 | .021 | .018 | .012 | .007 | |
| 6.0 | .155 | .094 | .051 | .133 | .082 | .044 | .092 | .057 | .031 | .053 | .034 | .019 | .017 | .011 | .006 | |
| 7.0 | .148 | .088 | .045 | .128 | .076 | .039 | .088 | .053 | .028 | .051 | .031 | .017 | .017 | .010 | .005 | |
| 8.0 | .142 | .082 | .041 | .122 | .071 | .035 | .084 | .050 | .025 | .049 | .029 | .015 | .016 | .010 | .005 | |
| 9.0 | .136 | .077 | .037 | .117 | .067 | .032 | .081 | .047 | .023 | .047 | .028 | .014 | .015 | .009 | .005 | |
| 10.0 | .130 | .073 | .035 | .112 | .063 | .030 | .078 | .044 | .021 | .045 | .026 | .013 | .015 | .009 | .004 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|---------------------|----------------|------|---------------------|------|------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | | | | | | | | | |
| NAME: UB-AS-40K90C-24V | | | | | TYPE: LED Strip | | | WEIGHT:Kg | | |
| SPEC.:14.4W | | | | | DIM.: 1000*10*2(MM) | | | SERIAL No.:001 | | |
| MFR.: Flexfire LEDs, Inc. | | | | | SUR.:1000*10(MM) | | | Shielding Angle:120 | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 25.4 | 26.9 | 25.7 | 27.1 | 27.4 | 25.1 | 26.7 | 25.4 | 26.9 | 27.1 |
| 3H | 27.2 | 28.6 | 27.5 | 28.8 | 29.1 | 26.8 | 28.2 | 27.1 | 28.4 | 28.7 |
| 4H | 28.0 | 29.3 | 28.3 | 29.6 | 29.9 | 27.4 | 28.8 | 27.7 | 29.0 | 29.3 |
| 6H | 28.7 | 29.9 | 29.0 | 30.2 | 30.5 | 27.9 | 29.2 | 28.3 | 29.5 | 29.8 |
| 8H | 29.0 | 30.2 | 29.3 | 30.5 | 30.8 | 28.1 | 29.3 | 28.4 | 29.6 | 29.9 |
| 12H | 29.3 | 30.5 | 29.7 | 30.8 | 31.1 | 28.2 | 29.4 | 28.6 | 29.7 | 30.0 |
| 4H 2H | 26.1 | 27.4 | 26.4 | 27.7 | 28.0 | 25.9 | 27.2 | 26.2 | 27.5 | 27.8 |
| 3H | 28.0 | 29.2 | 28.4 | 29.5 | 29.9 | 27.7 | 28.9 | 28.1 | 29.2 | 29.5 |
| 4H | 29.0 | 30.0 | 29.4 | 30.4 | 30.8 | 28.5 | 29.6 | 28.9 | 29.9 | 30.3 |
| 6H | 29.8 | 30.8 | 30.3 | 31.2 | 31.6 | 29.2 | 30.1 | 29.6 | 30.5 | 30.9 |
| 8H | 30.2 | 31.1 | 30.7 | 31.5 | 31.9 | 29.4 | 30.3 | 29.8 | 30.7 | 31.1 |
| 12H | 30.6 | 31.5 | 31.1 | 31.9 | 32.3 | 29.6 | 30.4 | 30.0 | 30.8 | 31.2 |
| 8H 4H | 29.3 | 30.2 | 29.8 | 30.6 | 31.0 | 28.9 | 29.8 | 29.4 | 30.2 | 30.6 |
| 6H | 30.4 | 31.1 | 30.9 | 31.6 | 32.0 | 29.8 | 30.5 | 30.2 | 30.9 | 31.4 |
| 8H | 30.9 | 31.6 | 31.4 | 32.0 | 32.5 | 30.1 | 30.8 | 30.6 | 31.3 | 31.7 |
| 12H | 31.5 | 32.1 | 32.0 | 32.5 | 33.1 | 30.4 | 31.0 | 30.9 | 31.5 | 32.0 |
| 12H 4H | 29.3 | 30.2 | 29.8 | 30.6 | 31.0 | 29.0 | 29.8 | 29.4 | 30.2 | 30.6 |
| 6H | 30.5 | 31.2 | 31.0 | 31.6 | 32.1 | 29.9 | 30.6 | 30.4 | 31.0 | 31.5 |
| 8H | 31.1 | 31.7 | 31.6 | 32.1 | 32.7 | 30.3 | 30.9 | 30.8 | 31.4 | 31.9 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.1 / - 0.4 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117, 1591 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

UTILIZATION FACTORS TABLE

| | | |
|---|---------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2(MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10(MM) | Shielding Angle:120 |

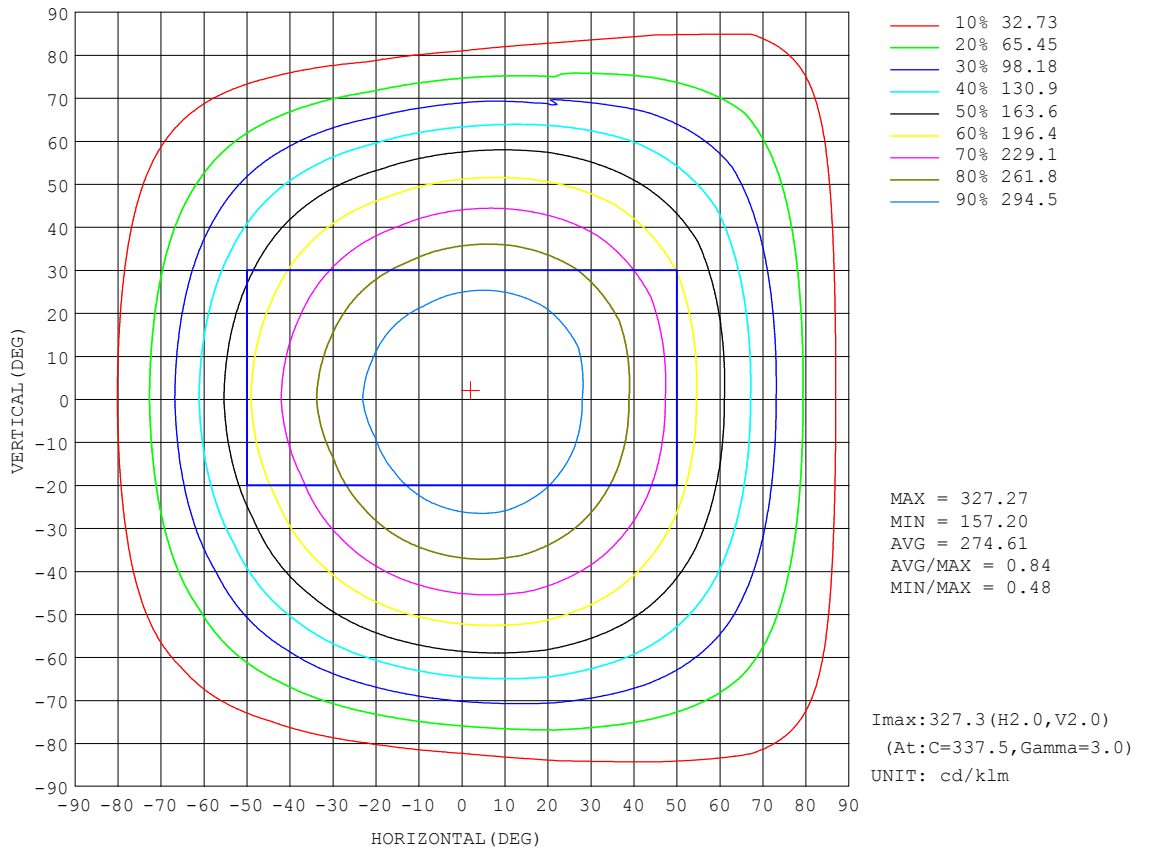
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| k = 0.60 | 56 | 44 | 37 | 55 | 44 | 37 | 54 | 44 | 37 | 30 |
| 0.80 | 66 | 54 | 47 | 65 | 54 | 47 | 63 | 53 | 46 | 39 |
| 1.00 | 74 | 63 | 56 | 73 | 62 | 55 | 71 | 64 | 55 | 47 |
| 1.25 | 82 | 71 | 63 | 80 | 70 | 63 | 77 | 68 | 62 | 54 |
| 1.50 | 87 | 76 | 69 | 85 | 75 | 69 | 82 | 74 | 67 | 60 |
| 2.00 | 94 | 85 | 78 | 92 | 83 | 77 | 88 | 81 | 76 | 67 |
| 2.50 | 98 | 89 | 83 | 95 | 88 | 82 | 91 | 85 | 80 | 71 |
| 3.00 | 101 | 94 | 88 | 99 | 92 | 87 | 94 | 89 | 85 | 76 |
| 4.00 | 105 | 99 | 94 | 103 | 97 | 93 | 98 | 94 | 90 | 80 |
| 5.00 | 108 | 102 | 98 | 105 | 100 | 96 | 100 | 97 | 93 | 84 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

ISOCANDELA DIAGRAM

| | | |
|---|----------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE:LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2 (MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10 (MM) | Shielding Angle:120 |

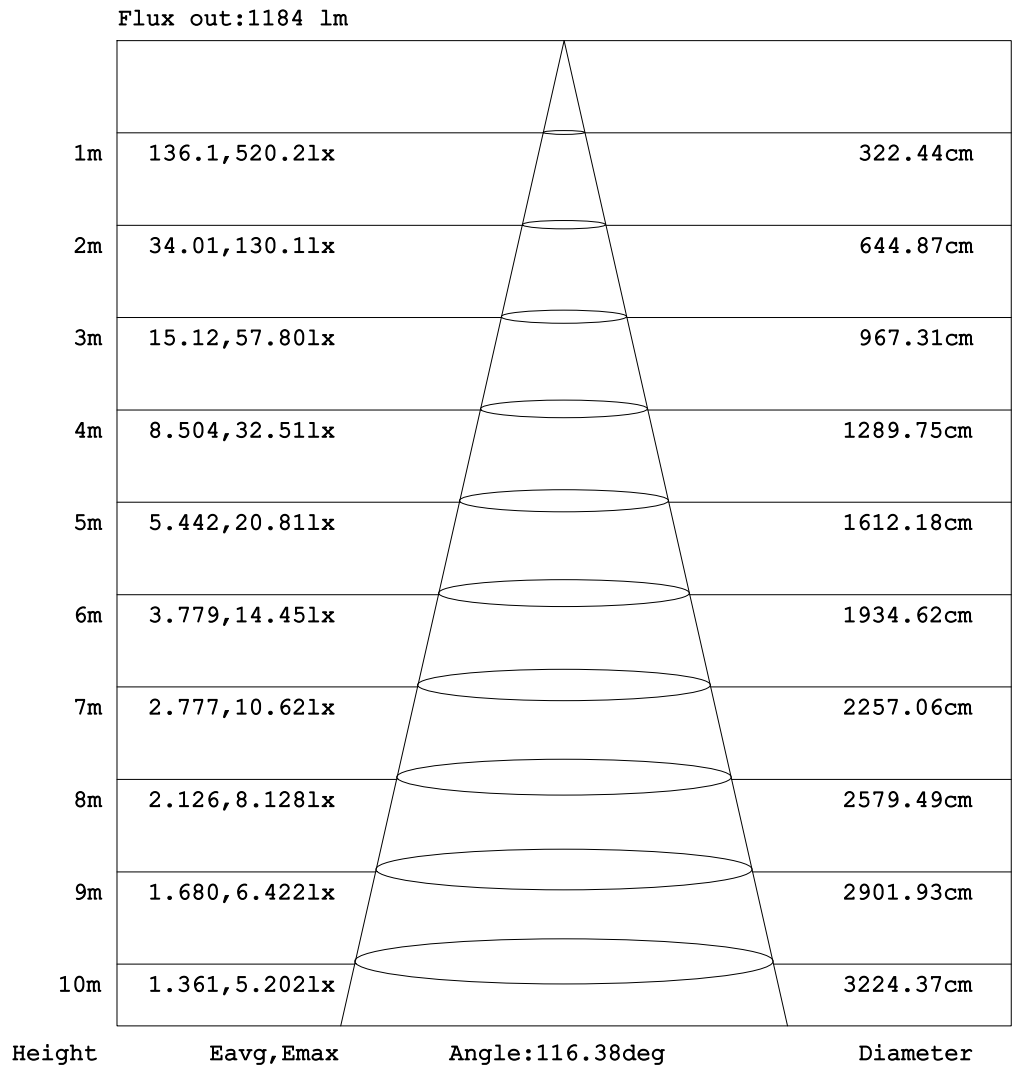


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

AAI Figure

| | | |
|---|----------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2 (MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10 (MM) | Shielding Angle:120 |



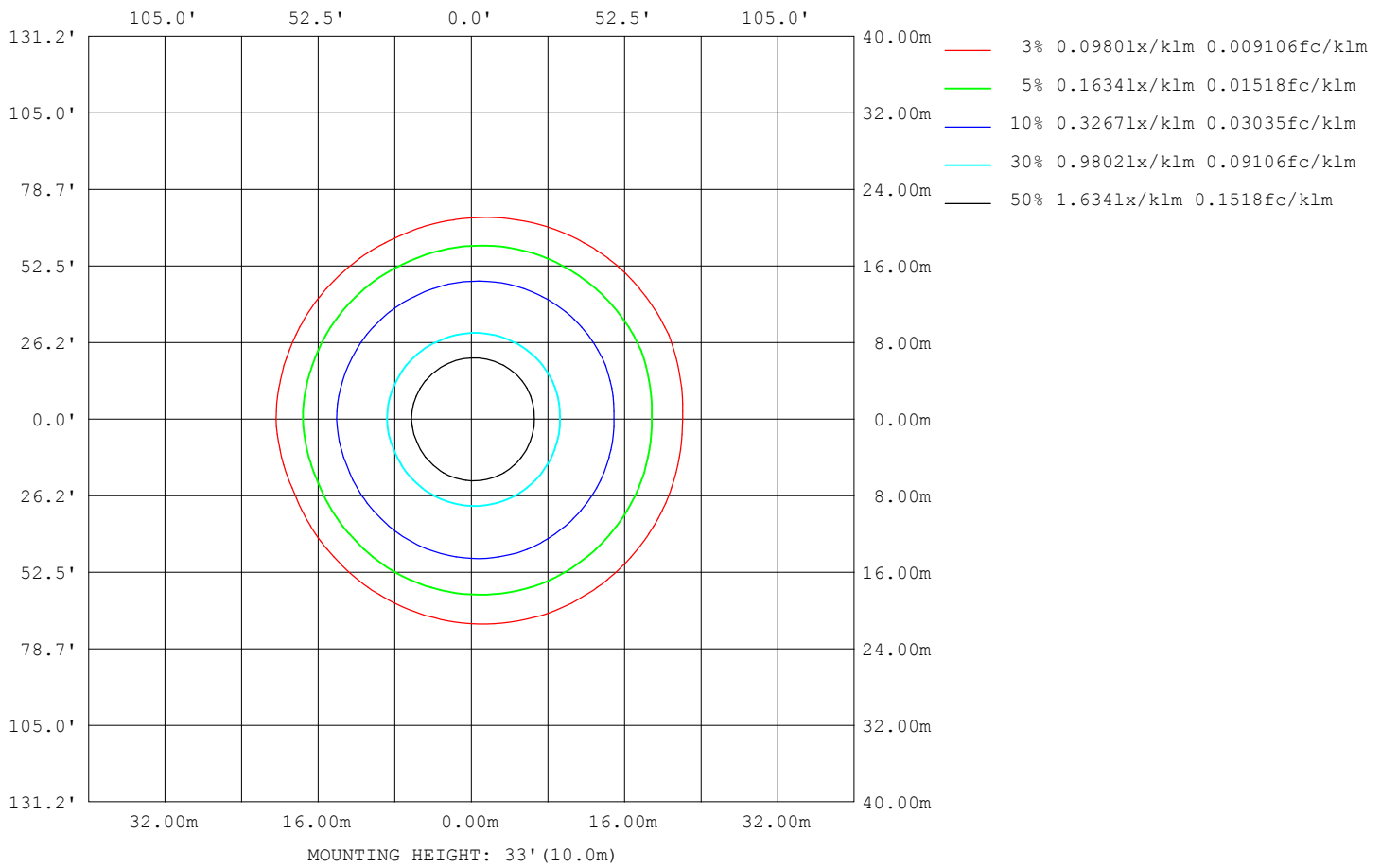
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

ISOLUX DIAGRAM

| | | |
|---|----------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE:LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2 (MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10 (MM) | Shielding Angle:120 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

LED Avg.L Report

| | | |
|---|----------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE: LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2 (MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10 (MM) | Shielding Angle:120 |

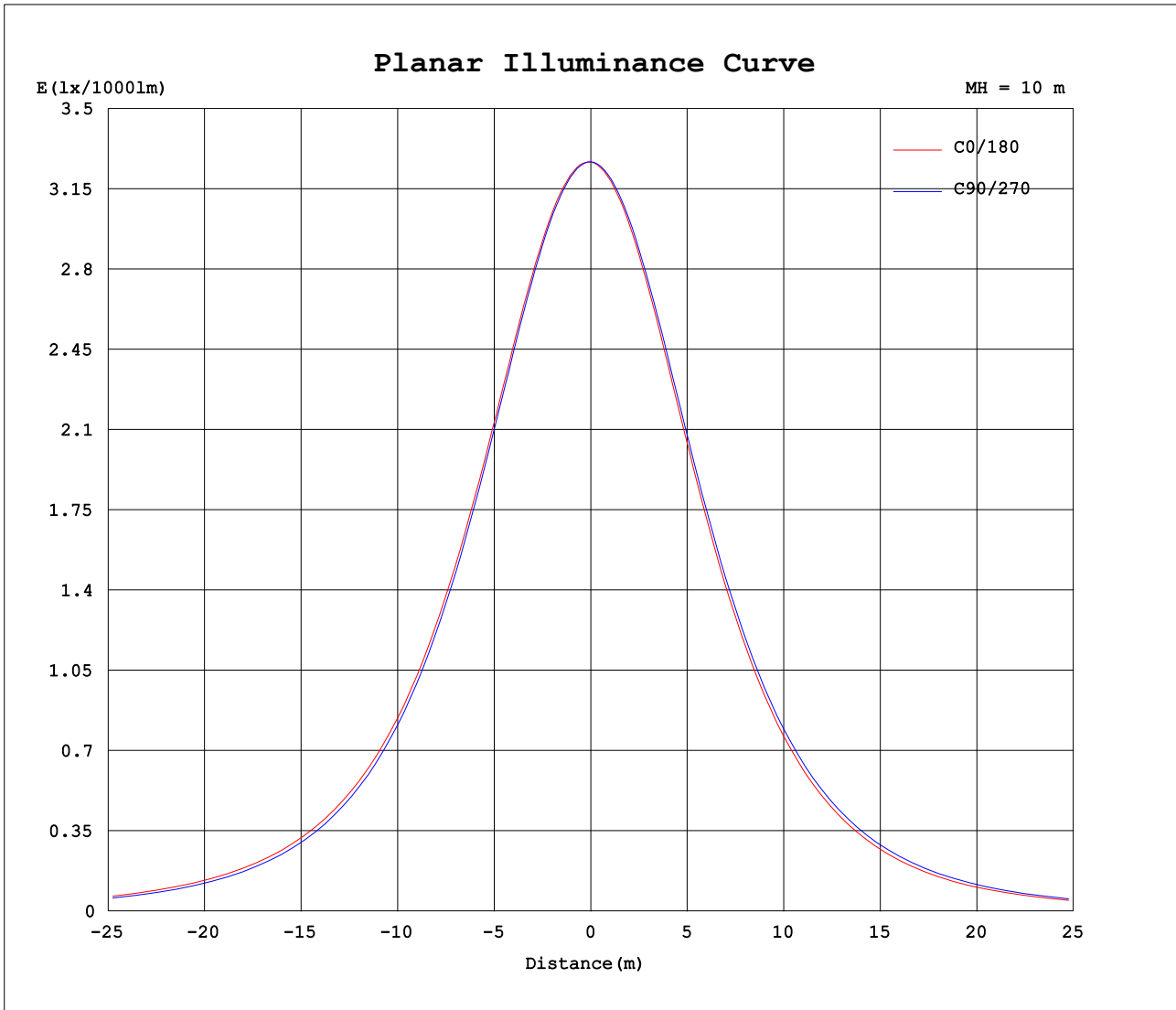
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 47222 |
| L_0~180 (75) av | 43600 |
| L_0~180 (85) av | 53957 |
| L_90~270 (65) av | 46892 |
| L_90~270 (75) av | 41266 |
| L_90~270 (85) av | 33805 |
| L_45 (65) av | 47162 |
| L_45 (75) av | 42696 |
| L_45 (85) av | 47603 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Test Date: 2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.000m [K=1.0000]

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---------------------|---------------------|
| Test:U:24.00V I:0.6131A P:14.57W PF:1.000 Freq:0Hz Lamp Flux:1591.27x1 lm | | |
| NAME: UB-AS-40K90C-24V | TYPE:LED Strip | WEIGHT:Kg |
| SPEC.:14.4W | DIM.: 1000*10*2(MM) | SERIAL No.:001 |
| MFR.: Flexfire LEDs, Inc. | SUR.:1000*10(MM) | Shielding Angle:120 |

Table--1

UNIT: cd/klm

| C (DEG) \ γ (DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | | | |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | | | |
| 5 | 327 | 327 | 327 | 327 | 326 | 325 | 324 | 324 | 324 | 324 | 324 | 324 | 325 | 326 | 327 | 327 | | | |
| 10 | 324 | 324 | 324 | 324 | 322 | 321 | 319 | 318 | 320 | 319 | 319 | 320 | 321 | 323 | 324 | 325 | | | |
| 15 | 319 | 319 | 319 | 319 | 317 | 314 | 311 | 310 | 312 | 311 | 312 | 312 | 315 | 317 | 320 | 321 | | | |
| 20 | 311 | 312 | 312 | 311 | 308 | 305 | 301 | 300 | 302 | 301 | 302 | 303 | 306 | 309 | 312 | 314 | | | |
| 25 | 302 | 302 | 302 | 301 | 297 | 293 | 289 | 287 | 290 | 289 | 289 | 290 | 294 | 298 | 303 | 305 | | | |
| 30 | 289 | 290 | 290 | 289 | 284 | 279 | 274 | 271 | 275 | 273 | 274 | 276 | 280 | 286 | 291 | 293 | | | |
| 35 | 275 | 276 | 275 | 274 | 268 | 263 | 257 | 253 | 258 | 256 | 257 | 258 | 264 | 270 | 276 | 279 | | | |
| 40 | 258 | 259 | 258 | 257 | 250 | 244 | 237 | 233 | 238 | 236 | 237 | 239 | 246 | 253 | 260 | 263 | | | |
| 45 | 239 | 240 | 239 | 237 | 230 | 222 | 215 | 210 | 216 | 214 | 215 | 217 | 225 | 233 | 241 | 244 | | | |
| 50 | 217 | 219 | 218 | 215 | 207 | 199 | 190 | 186 | 192 | 190 | 191 | 193 | 202 | 211 | 219 | 223 | | | |
| 55 | 194 | 196 | 194 | 191 | 183 | 174 | 164 | 159 | 166 | 163 | 165 | 167 | 177 | 187 | 196 | 201 | | | |
| 60 | 169 | 171 | 169 | 165 | 156 | 146 | 136 | 131 | 138 | 136 | 137 | 140 | 150 | 161 | 169 | 177 | | | |
| 65 | 142 | 144 | 142 | 138 | 128 | 117 | 107 | 101 | 108 | 107 | 108 | 111 | 121 | 133 | 144 | 150 | | | |
| 70 | 115 | 116 | 114 | 110 | 99.7 | 88.7 | 78.6 | 73.2 | 79.9 | 78.2 | 78.7 | 81.3 | 91.5 | 97.1 | 116 | 123 | | | |
| 75 | 87.8 | 88.9 | 86.3 | 81.2 | 71.0 | 60.7 | 51.7 | 48.1 | 54.0 | 51.9 | 51.8 | 53.5 | 63.3 | 73.0 | 88.0 | 95.1 | | | |
| 80 | 62.3 | 63.0 | 59.4 | 54.3 | 44.0 | 35.7 | 29.9 | 28.6 | 33.3 | 31.4 | 29.7 | 29.5 | 37.2 | 48.9 | 61.0 | 68.4 | | | |
| 85 | 40.2 | 40.8 | 36.6 | 30.6 | 21.2 | 16.4 | 15.2 | 15.6 | 18.9 | 17.2 | 15.0 | 12.3 | 15.8 | 26.2 | 37.6 | 44.8 | | | |
| 90 | 22.3 | 22.7 | 19.0 | 13.2 | 2.58 | 5.72 | 6.54 | 7.43 | 9.62 | 8.49 | 6.47 | 3.89 | 0.46 | 9.01 | 19.6 | 25.7 | | | |
| 95 | 9.86 | 10.1 | 7.51 | 3.75 | 0.65 | 1.68 | 2.45 | 3.02 | 4.07 | 3.40 | 2.29 | 1.17 | 0.61 | 2.67 | 7.27 | 12.0 | | | |
| 100 | 3.37 | 3.49 | 2.24 | 1.08 | 0.84 | 0.99 | 1.28 | 1.36 | 1.36 | 1.24 | 1.06 | 0.85 | 0.78 | 0.94 | 2.41 | 3.23 | | | |
| 105 | 1.20 | 1.30 | 1.22 | 0.96 | 1.05 | 1.15 | 1.29 | 1.33 | 0.96 | 1.07 | 1.11 | 1.01 | 0.96 | 0.86 | 1.12 | 1.25 | | | |
| 110 | 1.10 | 1.20 | 1.14 | 1.15 | 1.25 | 1.35 | 1.43 | 1.47 | 1.13 | 1.22 | 1.22 | 1.21 | 1.15 | 1.03 | 1.00 | 1.00 | | | |
| 115 | 1.26 | 1.28 | 1.27 | 1.35 | 1.45 | 1.56 | 1.63 | 1.64 | 1.33 | 1.39 | 1.44 | 1.43 | 1.35 | 1.22 | 1.13 | 1.05 | | | |
| 120 | 1.45 | 1.46 | 1.44 | 1.55 | 1.65 | 1.77 | 1.83 | 1.84 | 1.53 | 1.59 | 1.65 | 1.64 | 1.55 | 1.41 | 1.32 | 1.25 | | | |
| 125 | 1.65 | 1.65 | 1.66 | 1.75 | 1.85 | 1.96 | 2.01 | 2.03 | 1.72 | 1.79 | 1.85 | 1.84 | 1.75 | 1.61 | 1.51 | 1.45 | | | |
| 130 | 1.84 | 1.85 | 1.87 | 1.93 | 2.03 | 2.14 | 2.19 | 2.21 | 1.90 | 1.96 | 2.03 | 2.02 | 1.93 | 1.79 | 1.70 | 1.64 | | | |
| 135 | 2.03 | 2.03 | 2.05 | 2.10 | 2.19 | 2.29 | 2.35 | 2.37 | 2.07 | 2.13 | 2.20 | 2.19 | 2.10 | 1.96 | 1.88 | 1.85 | | | |
| 140 | 2.21 | 2.21 | 2.22 | 2.28 | 2.35 | 2.44 | 2.49 | 2.52 | 2.24 | 2.28 | 2.37 | 2.34 | 2.26 | 2.13 | 2.06 | 2.03 | | | |
| 145 | 2.40 | 2.39 | 2.41 | 2.45 | 2.52 | 2.59 | 2.64 | 2.68 | 2.42 | 2.45 | 2.53 | 2.50 | 2.43 | 2.32 | 2.26 | 2.24 | | | |
| 150 | 2.58 | 2.57 | 2.57 | 2.61 | 2.65 | 2.72 | 2.77 | 2.82 | 2.59 | 2.61 | 2.68 | 2.64 | 2.58 | 2.49 | 2.44 | 2.44 | | | |
| 155 | 2.72 | 2.71 | 2.71 | 2.74 | 2.77 | 2.83 | 2.87 | 2.92 | 2.74 | 2.73 | 2.79 | 2.75 | 2.70 | 2.63 | 2.59 | 2.60 | | | |
| 160 | 2.84 | 2.83 | 2.83 | 2.84 | 2.85 | 2.91 | 2.95 | 3.00 | 2.86 | 2.82 | 2.89 | 2.85 | 2.80 | 2.72 | 2.72 | 2.75 | | | |
| 165 | 2.95 | 2.93 | 2.92 | 2.92 | 2.92 | 2.97 | 3.00 | 3.06 | 2.95 | 2.92 | 2.97 | 2.93 | 2.89 | 2.83 | 2.83 | 2.87 | | | |
| 170 | 3.02 | 3.00 | 2.99 | 2.98 | 2.97 | 3.00 | 3.03 | 3.10 | 3.02 | 2.99 | 3.02 | 2.99 | 2.97 | 2.91 | 2.92 | 2.96 | | | |
| 175 | 3.06 | 3.02 | 3.03 | 3.01 | 3.01 | 3.02 | 3.06 | 3.10 | 3.03 | 2.99 | 3.02 | 3.01 | 2.99 | 2.95 | 2.97 | 3.00 | | | |
| 180 | 3.06 | 3.01 | 3.03 | 3.01 | 3.00 | 2.99 | 3.01 | 3.05 | 3.05 | 3.00 | 3.03 | 3.00 | 2.99 | 2.99 | 2.99 | 3.05 | | | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.0DEG
 Test Date:2019-8-1

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.000m [K=1.0000]