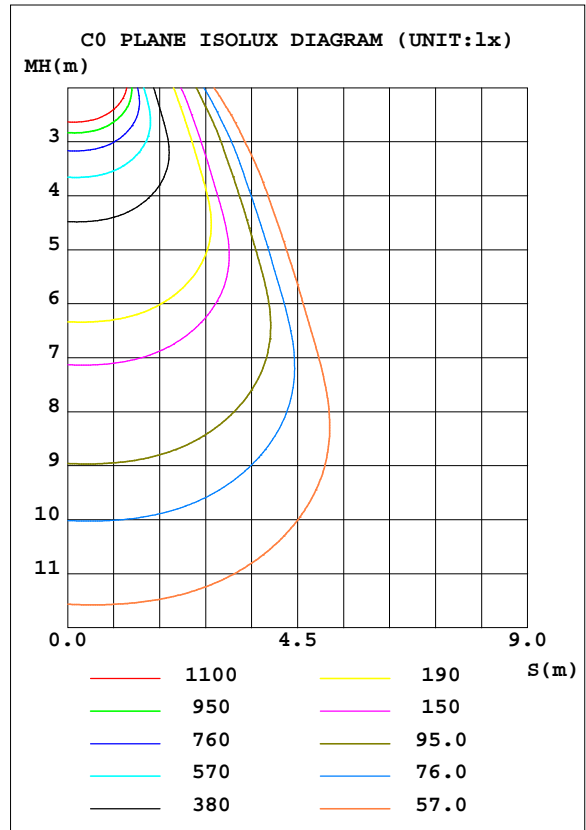
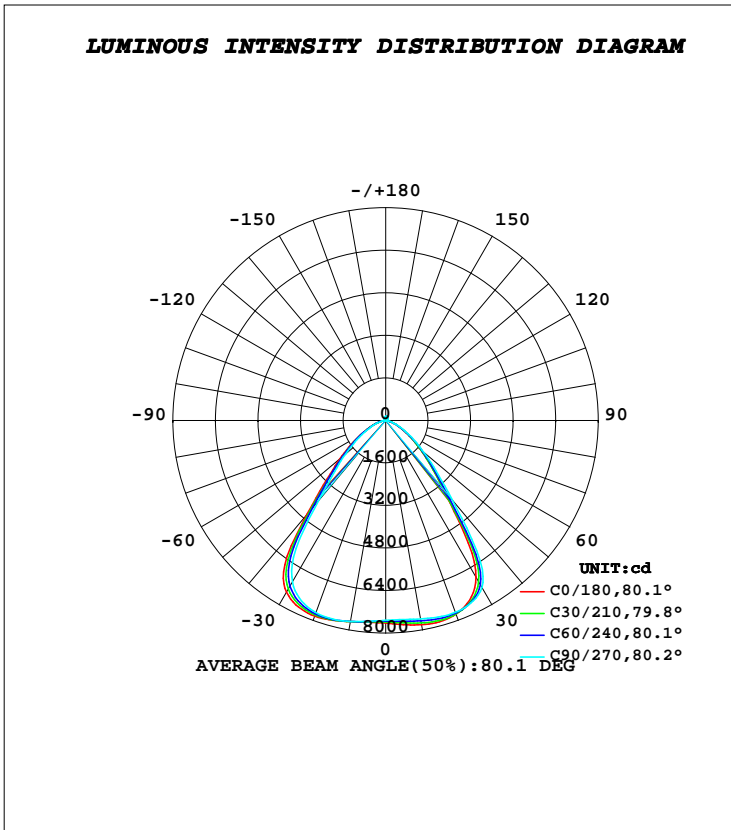


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 145.89 lm/W | | | |
|------------------|------------|-----------------------------------|--------|--------------------|-----------|
| MODEL | GKU-100W-C | I _{max} (cd) | 7837 | S/MH(C0/180) | 1.11 |
| NOMINAL POWER(W) | 100 | LOR(%) | 100.0 | S/MH(C90/270) | 1.17 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 14705 | η UP, DN(C0-180) | 1.5, 47.2 |
| NOMINAL FLUX(lm) | 14705.5 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 1.6, 49.8 |
| LAMPS INSIDE | 1 | η up(%) | 3.0 | CIBSE SHR NOM | 1.00 |
| TEST VOLTAGE(V) | 220.1 | η down(%) | 97.0 | CIBSE SHR MAX | 1.15 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-01-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 7800 | 7689 | 7580 | 7526 | 7682 | 7680 | 7679 | 7644 | 0- 10 | 725.4 | 725.4 | 4.93,4.93 |
| 20 | 7746 | 7727 | 7678 | 7645 | 7827 | 7761 | 7691 | 7628 | 10- 20 | 2185 | 2911 | 19.8,19.8 |
| 30 | 6791 | 7062 | 7243 | 7237 | 7459 | 7264 | 7018 | 6880 | 20- 30 | 3464 | 6375 | 43.4,43.4 |
| 40 | 3395 | 3503 | 3896 | 3941 | 4613 | 4364 | 3914 | 3725 | 30- 40 | 3557 | 9932 | 67.5,67.5 |
| 50 | 1730 | 1779 | 1895 | 1989 | 2273 | 2129 | 1978 | 1918 | 40- 50 | 2135 | 12067 | 82.1,82.1 |
| 60 | 824.1 | 843.6 | 894.1 | 967.5 | 1115 | 1074 | 973.3 | 949.2 | 50- 60 | 1263 | 13330 | 90.6,90.6 |
| 70 | 324.8 | 330.1 | 358.0 | 393.9 | 482.9 | 473.3 | 435.2 | 397.3 | 60- 70 | 642.3 | 13972 | 95,95 |
| 80 | 63.56 | 65.71 | 73.24 | 83.91 | 131.4 | 131.2 | 111.9 | 98.97 | 70- 80 | 235.3 | 14207 | 96.6,96.6 |
| 90 | 17.31 | 16.74 | 15.88 | 15.40 | 30.06 | 30.54 | 29.85 | 30.17 | 80- 90 | 50.30 | 14257 | 97,97 |
| 100 | 28.33 | 27.36 | 25.89 | 25.12 | 37.77 | 38.22 | 39.23 | 39.70 | 90-100 | 29.98 | 14287 | 97.2,97.2 |
| 110 | 43.92 | 42.63 | 40.71 | 39.48 | 50.45 | 51.07 | 52.37 | 52.95 | 100-110 | 41.53 | 14329 | 97.4,97.4 |
| 120 | 63.04 | 61.38 | 58.97 | 57.46 | 66.63 | 67.43 | 68.97 | 69.63 | 110-120 | 54.58 | 14384 | 97.8,97.8 |
| 130 | 85.23 | 83.25 | 80.47 | 78.68 | 85.22 | 86.01 | 87.65 | 88.17 | 120-130 | 66.19 | 14450 | 98.3,98.3 |
| 140 | 106.3 | 104.5 | 102.1 | 100.0 | 103.8 | 104.5 | 105.6 | 106.0 | 130-140 | 72.82 | 14523 | 98.8,98.8 |
| 150 | 123.1 | 121.7 | 119.7 | 117.7 | 119.1 | 119.5 | 119.9 | 119.9 | 140-150 | 70.34 | 14593 | 99.2,99.2 |
| 160 | 137.5 | 136.3 | 134.4 | 132.5 | 131.5 | 131.6 | 131.8 | 131.4 | 150-160 | 58.43 | 14651 | 99.6,99.6 |
| 170 | 152.5 | 151.4 | 149.6 | 148.1 | 146.8 | 146.4 | 146.4 | 145.9 | 160-170 | 39.66 | 14691 | 99.9,99.9 |
| 180 | 157.2 | 156.6 | 155.8 | 154.8 | 157.8 | 156.6 | 155.4 | 154.5 | 170-180 | 14.51 | 14705 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

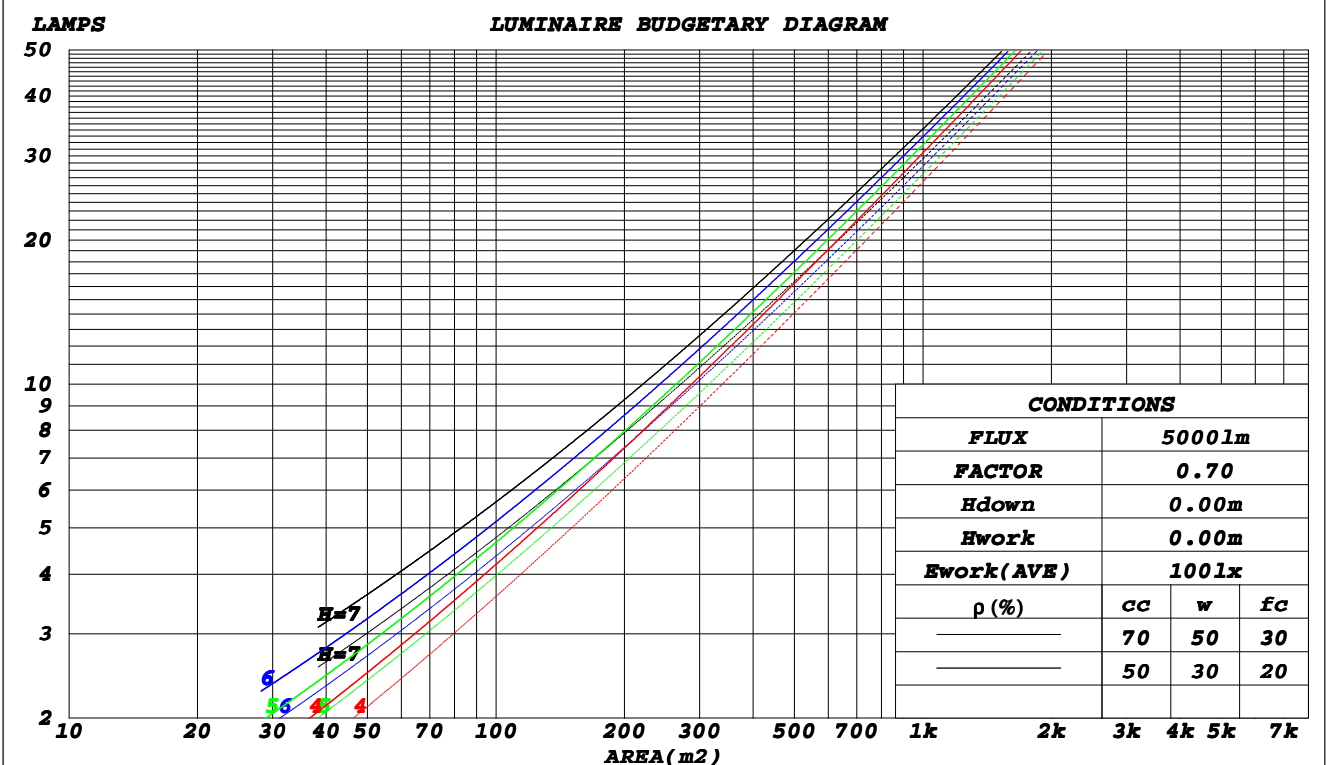
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-01-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

| 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 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0 | 1.07 | 1.04 | 1.01 | 1.05 | 1.02 | .99 | 1.00 | .98 | .96 | .96 | .94 | .92 | .92 | .90 | .89 | .87 |
| 2.0 | .97 | .92 | .87 | .95 | .90 | .86 | .91 | .87 | .84 | .87 | .84 | .81 | .84 | .81 | .79 | .77 |
| 3.0 | .88 | .81 | .76 | .86 | .80 | .75 | .83 | .78 | .74 | .80 | .76 | .72 | .77 | .74 | .71 | .69 |
| 4.0 | .80 | .73 | .67 | .78 | .72 | .67 | .76 | .70 | .65 | .73 | .68 | .64 | .71 | .67 | .63 | .61 |
| 5.0 | .73 | .65 | .60 | .71 | .65 | .59 | .69 | .63 | .58 | .67 | .62 | .58 | .65 | .60 | .57 | .55 |
| 6.0 | .67 | .59 | .54 | .66 | .58 | .53 | .64 | .57 | .53 | .62 | .56 | .52 | .60 | .55 | .51 | .50 |
| 7.0 | .61 | .54 | .49 | .60 | .53 | .48 | .59 | .52 | .48 | .57 | .51 | .47 | .56 | .51 | .47 | .45 |
| 8.0 | .57 | .49 | .44 | .56 | .49 | .44 | .54 | .48 | .44 | .53 | .47 | .43 | .52 | .47 | .43 | .41 |
| 9.0 | .52 | .45 | .40 | .52 | .45 | .40 | .50 | .44 | .40 | .49 | .44 | .40 | .48 | .43 | .39 | .38 |
| 10.0 | .49 | .42 | .37 | .48 | .41 | .37 | .47 | .41 | .37 | .46 | .40 | .36 | .45 | .40 | .36 | .35 |



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018-01-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

WEC AND CCEC

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

| 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 | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .231 | .131 | .042 | .223 | .127 | .040 | .208 | .119 | .038 | .195 | .112 | .036 | .182 | .106 | .034 | |
| 2.0 | .223 | .122 | .037 | .216 | .119 | .037 | .204 | .113 | .035 | .192 | .108 | .034 | .181 | .102 | .032 | |
| 3.0 | .212 | .113 | .034 | .206 | .110 | .033 | .195 | .106 | .032 | .184 | .101 | .031 | .175 | .097 | .030 | |
| 4.0 | .200 | .104 | .031 | .195 | .102 | .030 | .185 | .098 | .029 | .176 | .095 | .029 | .167 | .091 | .028 | |
| 5.0 | .189 | .096 | .028 | .184 | .095 | .028 | .176 | .091 | .027 | .167 | .088 | .026 | .160 | .085 | .026 | |
| 6.0 | .179 | .090 | .026 | .174 | .088 | .025 | .167 | .085 | .025 | .159 | .083 | .024 | .152 | .080 | .024 | |
| 7.0 | .169 | .084 | .024 | .165 | .082 | .023 | .158 | .080 | .023 | .151 | .078 | .023 | .145 | .075 | .022 | |
| 8.0 | .160 | .078 | .022 | .157 | .077 | .022 | .150 | .075 | .021 | .144 | .073 | .021 | .139 | .071 | .021 | |
| 9.0 | .152 | .073 | .021 | .149 | .073 | .020 | .143 | .071 | .020 | .137 | .069 | .020 | .132 | .067 | .019 | |
| 10.0 | .144 | .069 | .019 | .142 | .068 | .019 | .136 | .067 | .019 | .131 | .065 | .019 | .127 | .064 | .018 | |

| 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 | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .214 | .214 | .214 | .183 | .183 | .183 | .125 | .125 | .125 | .072 | .072 | .072 | .023 | .023 | .023 | |
| 2.0 | .198 | .180 | .164 | .170 | .155 | .141 | .116 | .106 | .098 | .067 | .062 | .057 | .021 | .020 | .018 | |
| 3.0 | .187 | .156 | .130 | .160 | .134 | .112 | .110 | .093 | .078 | .063 | .054 | .046 | .020 | .017 | .015 | |
| 4.0 | .177 | .138 | .106 | .152 | .119 | .092 | .104 | .082 | .065 | .060 | .048 | .038 | .019 | .016 | .012 | |
| 5.0 | .169 | .124 | .089 | .145 | .107 | .078 | .099 | .074 | .055 | .058 | .044 | .032 | .019 | .014 | .011 | |
| 6.0 | .161 | .113 | .077 | .138 | .098 | .067 | .095 | .068 | .047 | .055 | .040 | .028 | .018 | .013 | .009 | |
| 7.0 | .154 | .104 | .068 | .133 | .090 | .059 | .092 | .063 | .042 | .053 | .037 | .025 | .017 | .012 | .008 | |
| 8.0 | .148 | .097 | .061 | .127 | .084 | .053 | .088 | .059 | .038 | .051 | .035 | .023 | .017 | .011 | .007 | |
| 9.0 | .142 | .091 | .056 | .123 | .079 | .049 | .085 | .056 | .035 | .049 | .033 | .021 | .016 | .011 | .007 | |
| 10.0 | .137 | .086 | .052 | .118 | .075 | .045 | .082 | .053 | .032 | .048 | .031 | .019 | .015 | .010 | .006 | |
| 10.0 | .132 | .082 | .049 | .114 | .071 | .042 | .079 | .050 | .030 | .046 | .030 | .018 | .015 | .010 | .006 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-01-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

Uncorrected UGR Table

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

| 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 | 25.2 | 26.4 | 25.5 | 26.6 | 26.9 | 25.6 | 26.8 | 25.9 | 27.0 | 27.2 |
| 3H | 25.4 | 26.5 | 25.7 | 26.8 | 27.1 | 25.8 | 26.9 | 26.1 | 27.2 | 27.5 |
| 4H | 25.4 | 26.5 | 25.8 | 26.8 | 27.1 | 25.8 | 26.9 | 26.2 | 27.2 | 27.5 |
| 6H | 25.4 | 26.4 | 25.7 | 26.7 | 27.0 | 25.8 | 26.8 | 26.2 | 27.1 | 27.4 |
| 8H | 25.3 | 26.3 | 25.7 | 26.6 | 26.9 | 25.8 | 26.7 | 26.1 | 27.0 | 27.4 |
| 12H | 25.3 | 26.2 | 25.7 | 26.5 | 26.9 | 25.7 | 26.6 | 26.1 | 26.9 | 27.3 |
| 4H 2H | 25.2 | 26.3 | 25.6 | 26.6 | 26.9 | 25.6 | 26.6 | 25.9 | 26.9 | 27.2 |
| 3H | 25.6 | 26.5 | 26.0 | 26.8 | 27.2 | 26.0 | 26.9 | 26.3 | 27.2 | 27.5 |
| 4H | 25.7 | 26.5 | 26.1 | 26.8 | 27.2 | 26.0 | 26.8 | 26.4 | 27.2 | 27.6 |
| 6H | 25.6 | 26.3 | 26.1 | 26.7 | 27.1 | 26.0 | 26.7 | 26.4 | 27.1 | 27.5 |
| 8H | 25.6 | 26.3 | 26.0 | 26.7 | 27.1 | 26.0 | 26.6 | 26.4 | 27.0 | 27.5 |
| 12H | 25.6 | 26.2 | 26.0 | 26.6 | 27.0 | 25.9 | 26.5 | 26.4 | 27.0 | 27.4 |
| 8H 4H | 25.6 | 26.2 | 26.0 | 26.7 | 27.1 | 25.9 | 26.6 | 26.4 | 27.0 | 27.4 |
| 6H | 25.6 | 26.1 | 26.1 | 26.6 | 27.1 | 25.9 | 26.5 | 26.4 | 26.9 | 27.4 |
| 8H | 25.6 | 26.0 | 26.1 | 26.5 | 27.0 | 25.9 | 26.4 | 26.4 | 26.9 | 27.4 |
| 12H | 25.5 | 25.9 | 26.0 | 26.4 | 27.0 | 25.9 | 26.3 | 26.4 | 26.8 | 27.3 |
| 12H 4H | 25.5 | 26.1 | 26.0 | 26.6 | 27.0 | 25.9 | 26.5 | 26.4 | 26.9 | 27.4 |
| 6H | 25.5 | 26.0 | 26.0 | 26.5 | 27.0 | 25.9 | 26.4 | 26.4 | 26.8 | 27.4 |
| 8H | 25.5 | 25.9 | 26.0 | 26.4 | 27.0 | 25.9 | 26.3 | 26.4 | 26.8 | 27.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 1.0 / - 1.5 | | | | | + 1.2 / - 1.5 | | | | |
| 1.5H | + 1.2 / - 0.8 | | | | | + 1.8 / - 1.0 | | | | |
| 2.0H | + 1.9 / - 1.7 | | | | | + 2.1 / - 1.9 | | | | |

CIE Pub.117 Corrected 14705 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.3)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-01-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

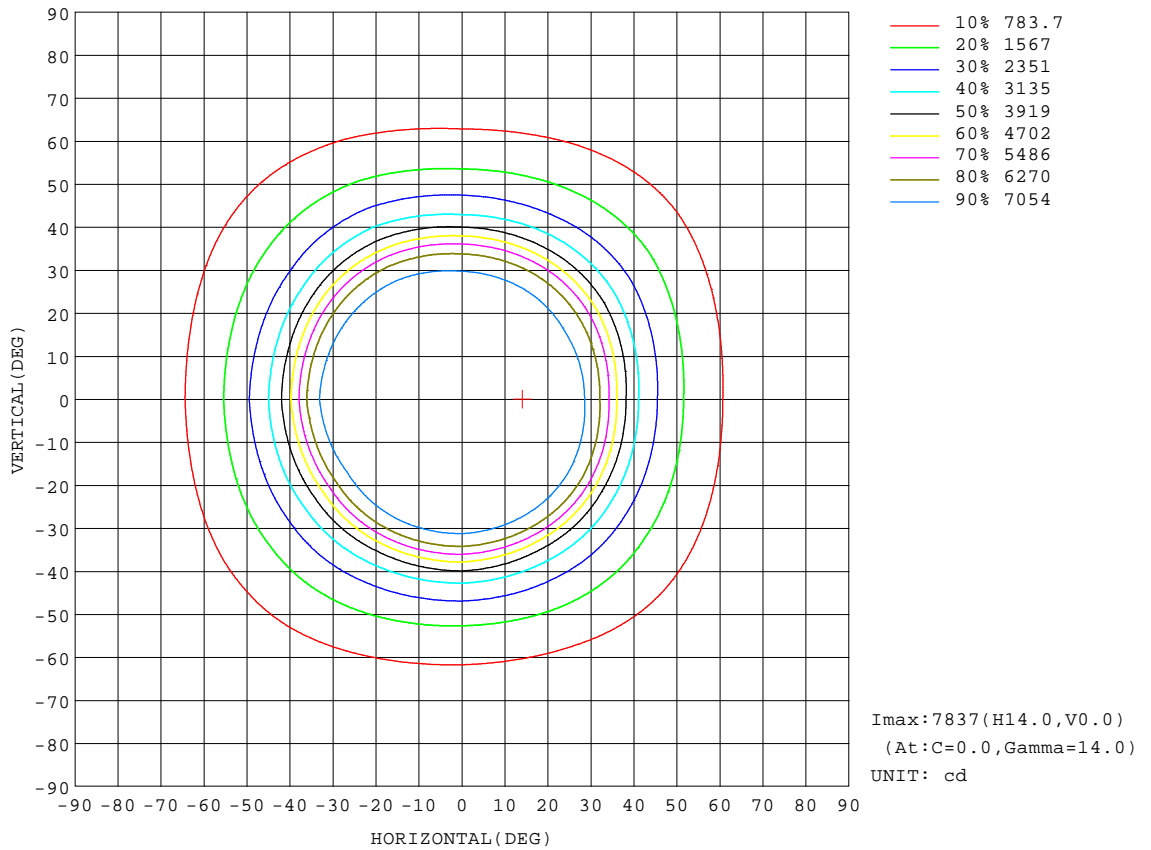
| REFLECTANCE | | | | | | | | | | |
|---|---|-----|------------------|-----|-----|-----|----------------------|-----|-----|---------------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 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 | 71 | 62 | 57 | 70 | 62 | 56 | 69 | 61 | 56 | 51 |
| 0.80 | 80 | 72 | 66 | 79 | 71 | 66 | 78 | 70 | 65 | 60 |
| 1.00 | 87 | 79 | 74 | 86 | 79 | 73 | 84 | 79 | 73 | 67 |
| 1.25 | 93 | 86 | 80 | 92 | 85 | 80 | 89 | 83 | 79 | 73 |
| 1.50 | 97 | 90 | 85 | 95 | 89 | 84 | 92 | 87 | 83 | 77 |
| 2.00 | 102 | 96 | 91 | 100 | 95 | 90 | 97 | 92 | 88 | 81 |
| 2.50 | 105 | 99 | 95 | 102 | 97 | 94 | 99 | 95 | 91 | 84 |
| 3.00 | 107 | 102 | 98 | 105 | 100 | 97 | 101 | 97 | 94 | 86 |
| 4.00 | 110 | 106 | 102 | 107 | 104 | 101 | 103 | 100 | 98 | 89 |
| 5.00 | 111 | 108 | 105 | 109 | 106 | 103 | 104 | 102 | 100 | 91 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-01-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |



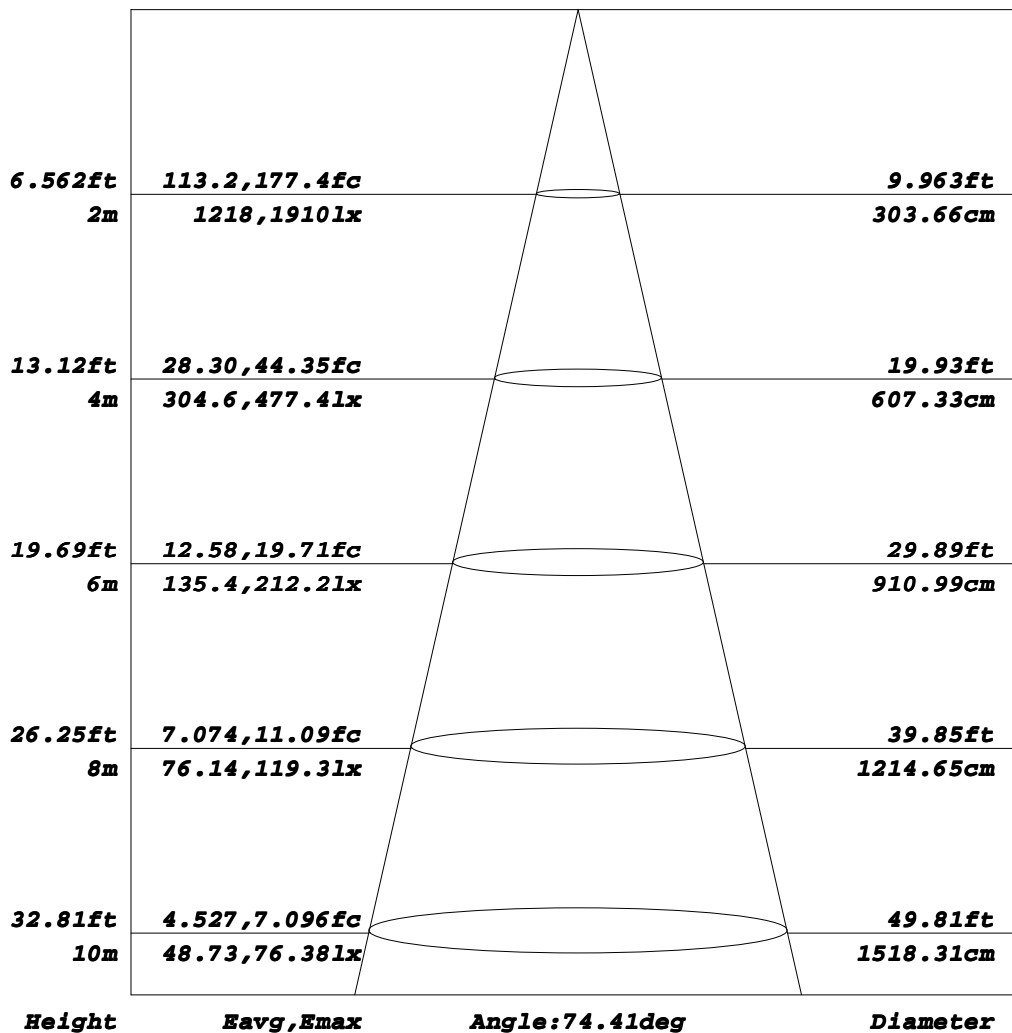
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-01-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

AAI Figure

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

Flux out:9345 lm



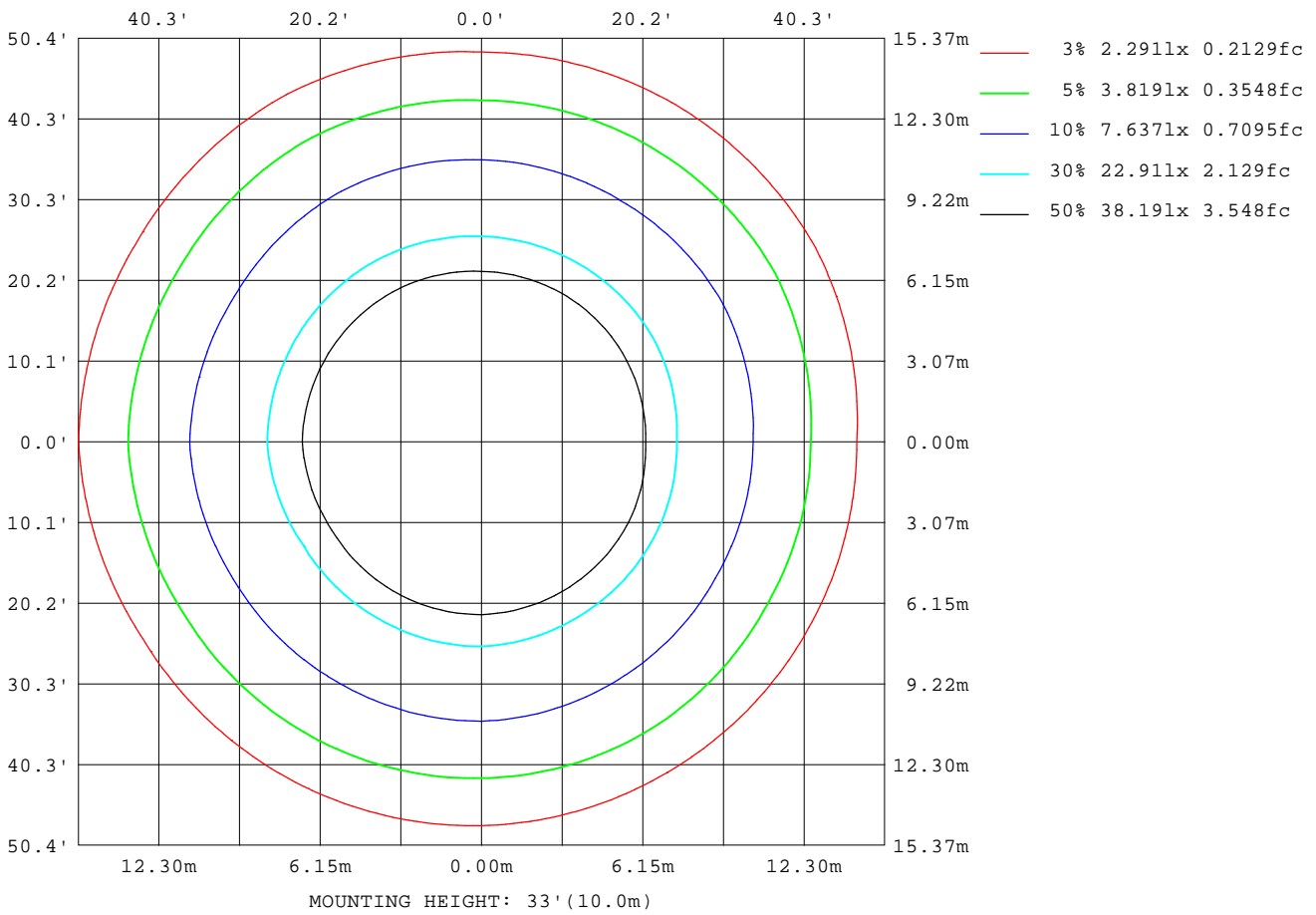
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-01-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

ISOLUX DIAGRAM

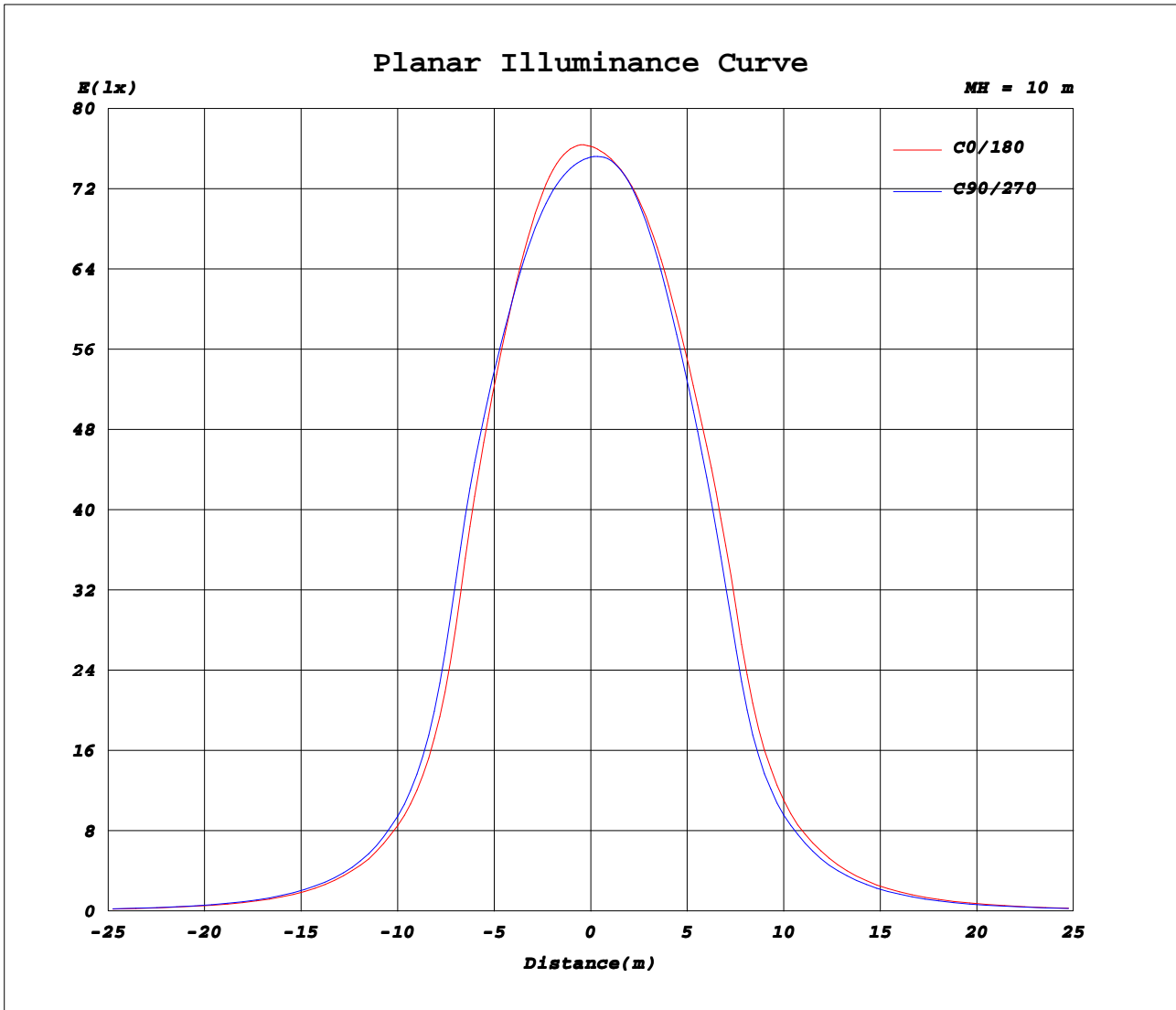
| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-01-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-01-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|----------|--|
| Test:U:220.0V I:0.4640A P:100.8W PF:0.9870 Lamp Flux:14705.5x1 lm | | |
| NAME: GKU-100W-C | TYPE:LED | |
| MFR.: GRANDOL INDUSTRY LIMITED | | |
| | | |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0 | 7624 | 7583 | 7546 | 7516 | 7486 | 7451 | 7624 | 7583 | 7546 | 7516 | 7486 | 7451 | | | | | | | |
| 5 | 7705 | 7639 | 7575 | 7518 | 7479 | 7446 | 7615 | 7604 | 7591 | 7588 | 7566 | 7532 | | | | | | | |
| 10 | 7800 | 7728 | 7650 | 7580 | 7540 | 7513 | 7682 | 7683 | 7677 | 7679 | 7660 | 7629 | | | | | | | |
| 15 | 7837 | 7790 | 7720 | 7659 | 7623 | 7602 | 7778 | 7766 | 7749 | 7732 | 7709 | 7670 | | | | | | | |
| 20 | 7746 | 7744 | 7709 | 7678 | 7653 | 7637 | 7827 | 7782 | 7740 | 7691 | 7654 | 7603 | | | | | | | |
| 25 | 7461 | 7534 | 7564 | 7579 | 7565 | 7541 | 7747 | 7665 | 7585 | 7490 | 7437 | 7370 | | | | | | | |
| 30 | 6791 | 7000 | 7125 | 7243 | 7247 | 7227 | 7459 | 7328 | 7201 | 7018 | 6931 | 6829 | | | | | | | |
| 35 | 5127 | 5426 | 5637 | 5967 | 6025 | 6115 | 6626 | 6416 | 6220 | 5879 | 5712 | 5523 | | | | | | | |
| 40 | 3395 | 3445 | 3560 | 3896 | 3849 | 4032 | 4613 | 4447 | 4281 | 3914 | 3770 | 3679 | | | | | | | |
| 45 | 2418 | 2409 | 2499 | 2680 | 2695 | 2818 | 3131 | 2949 | 2962 | 2709 | 2657 | 2620 | | | | | | | |
| 50 | 1730 | 1737 | 1821 | 1895 | 1945 | 2032 | 2273 | 2113 | 2144 | 1978 | 1933 | 1904 | | | | | | | |
| 55 | 1221 | 1238 | 1272 | 1333 | 1392 | 1448 | 1616 | 1541 | 1532 | 1412 | 1397 | 1369 | | | | | | | |
| 60 | 824 | 839 | 848 | 894 | 944 | 991 | 1115 | 1072 | 1075 | 973 | 971 | 928 | | | | | | | |
| 65 | 546 | 548 | 556 | 589 | 622 | 648 | 745 | 728 | 716 | 663 | 649 | 623 | | | | | | | |
| 70 | 325 | 329 | 331 | 358 | 388 | 399 | 483 | 478 | 469 | 435 | 407 | 387 | | | | | | | |
| 75 | 153 | 160 | 160 | 178 | 196 | 207 | 274 | 269 | 265 | 237 | 222 | 205 | | | | | | | |
| 80 | 63.6 | 66.1 | 65.4 | 73.2 | 79.7 | 88.2 | 131 | 132 | 130 | 112 | 103 | 94.6 | | | | | | | |
| 85 | 20.6 | 21.6 | 22.1 | 24.8 | 28.1 | 33.5 | 60.8 | 62.1 | 59.6 | 52.0 | 48.9 | 44.7 | | | | | | | |
| 90 | 17.3 | 16.9 | 16.5 | 15.9 | 15.5 | 15.3 | 30.1 | 30.8 | 30.3 | 29.9 | 30.1 | 30.3 | | | | | | | |
| 95 | 22.2 | 21.7 | 21.2 | 20.4 | 19.9 | 19.5 | 33.0 | 33.2 | 33.5 | 34.1 | 34.4 | 34.7 | | | | | | | |
| 100 | 28.3 | 27.7 | 27.1 | 25.9 | 25.4 | 24.8 | 37.8 | 38.1 | 38.3 | 39.2 | 39.6 | 39.8 | | | | | | | |
| 105 | 35.7 | 34.8 | 34.1 | 32.7 | 32.1 | 31.4 | 43.7 | 43.9 | 44.3 | 45.3 | 45.6 | 45.9 | | | | | | | |
| 110 | 43.9 | 43.1 | 42.1 | 40.7 | 39.8 | 39.2 | 50.4 | 50.8 | 51.3 | 52.4 | 52.8 | 53.1 | | | | | | | |
| 115 | 53.0 | 52.1 | 51.0 | 49.4 | 48.4 | 47.6 | 58.1 | 58.6 | 59.2 | 60.3 | 60.9 | 61.1 | | | | | | | |
| 120 | 63.0 | 62.0 | 60.8 | 59.0 | 57.9 | 57.0 | 66.6 | 67.0 | 67.8 | 69.0 | 69.6 | 69.6 | | | | | | | |
| 125 | 73.7 | 72.7 | 71.2 | 69.4 | 68.1 | 67.2 | 75.6 | 76.1 | 76.9 | 78.2 | 78.8 | 78.7 | | | | | | | |
| 130 | 85.2 | 84.0 | 82.5 | 80.5 | 79.2 | 78.1 | 85.2 | 85.5 | 86.5 | 87.7 | 88.3 | 88.1 | | | | | | | |
| 135 | 96.1 | 95.2 | 93.4 | 91.7 | 90.1 | 89.2 | 94.5 | 95.1 | 95.9 | 97.0 | 97.5 | 97.2 | | | | | | | |
| 140 | 106 | 105 | 104 | 102 | 100 | 99.7 | 104 | 104 | 105 | 106 | 106 | 106 | | | | | | | |
| 145 | 115 | 114 | 113 | 111 | 110 | 109 | 112 | 112 | 113 | 113 | 114 | 113 | | | | | | | |
| 150 | 123 | 123 | 121 | 120 | 118 | 117 | 119 | 119 | 120 | 120 | 120 | 119 | | | | | | | |
| 155 | 130 | 130 | 128 | 127 | 126 | 125 | 125 | 126 | 126 | 126 | 126 | 125 | | | | | | | |
| 160 | 137 | 137 | 136 | 134 | 133 | 132 | 132 | 131 | 132 | 132 | 132 | 131 | | | | | | | |
| 165 | 145 | 145 | 144 | 142 | 141 | 140 | 139 | 139 | 139 | 139 | 139 | 138 | | | | | | | |
| 170 | 153 | 152 | 151 | 150 | 149 | 148 | 147 | 146 | 147 | 146 | 146 | 146 | | | | | | | |
| 175 | 157 | 157 | 155 | 155 | 154 | 153 | 154 | 153 | 153 | 152 | 152 | 151 | | | | | | | |
| 180 | 157 | 157 | 156 | 156 | 155 | 155 | 158 | 157 | 157 | 155 | 155 | 154 | | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-01-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks: