



## PHOTOMETRIC MEASUREMENT REPORT N° StarEye Maxi 5000K 22°

Photometric measurement date: **3/13/2018/**

Company: **Lux Lumen**

Operator: **Ellen**

Type of photometric measurement: **C - Gamma**

**The measurements have been performed in the following laboratory ambient conditions:**

Temperature:

Relative humidity:

Air turbulence:

Stabilization time before measurement:

Regulations applied:

Electro Magnetic Compatibility (EMC): **Shielded instrument**

Luminaire name: **StarEye Maxi high CRI 5000 spot**

Eulumdat reference: **StarEye Maxi high CRI 5000 spot**

Size of luminaire (mm): **48 x 48 x 77**

Size of luminous area (mm): **32 x 32**

Number n of standard sets of lamps (optional): **1**

Number of lamps: **1**

Type of light source: **LED**

Total luminous flux of the light source (lm): **Not available**

Output luminous flux of the lamp (lm): **693.227239321434**

Colour temperature (K): **4838**

Colour rendering index: **90**

Supply current (mA): **0**

Source power (W): **10**

Power consumption included source power (W): **10**

LED module efficacy (lm/W): **0.00**

System light efficacy (lm/W): **0.00**

Luminaire light efficacy (lm/W): **69.32**

Light Output Ratio of luminaire (LOR): **100**

Downward Flux Fraction (DFF): **100**

Upward Flux Fraction (UFF): **0.00**

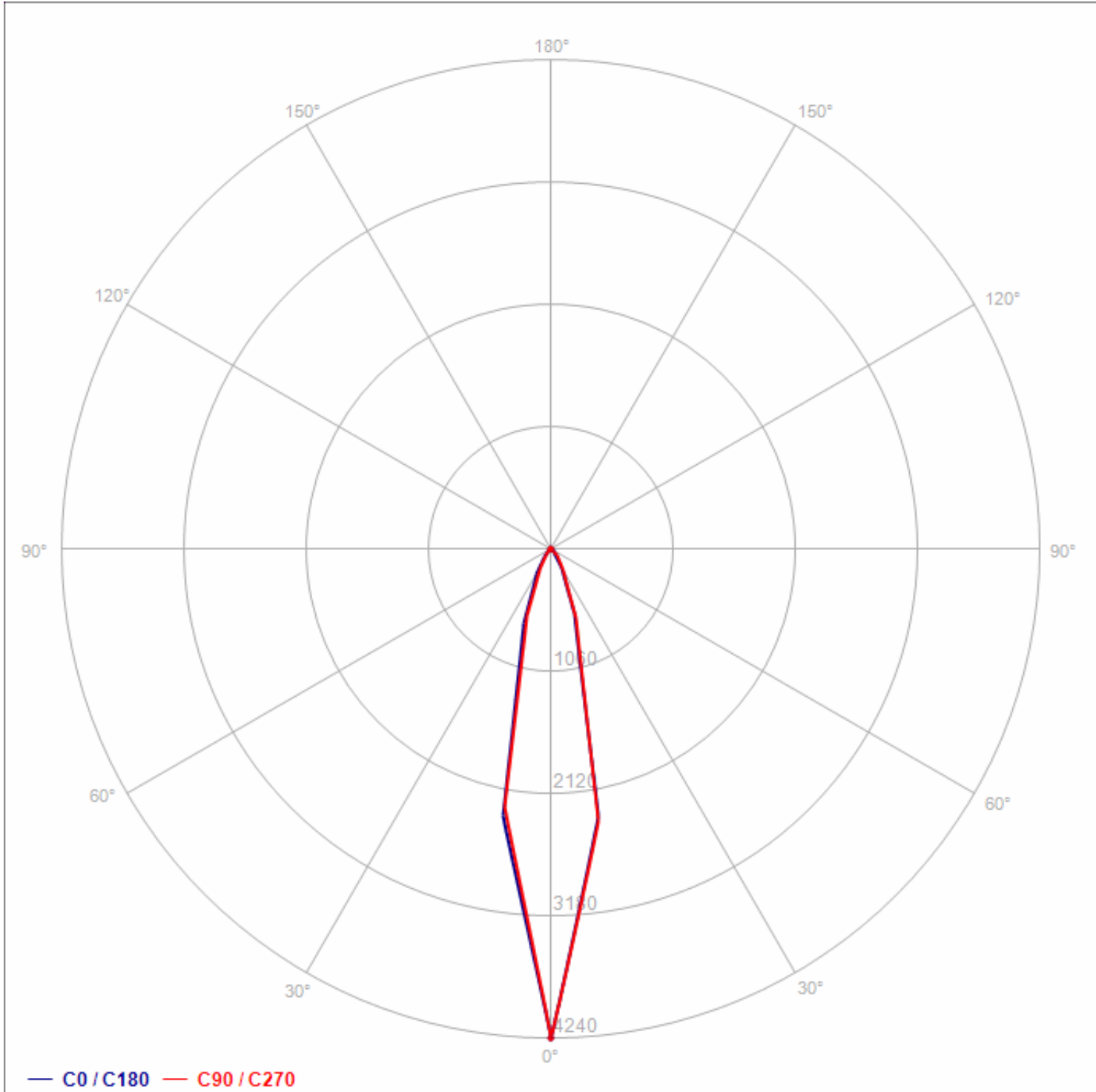
Tilt during measurement (for street luminaires): **0**

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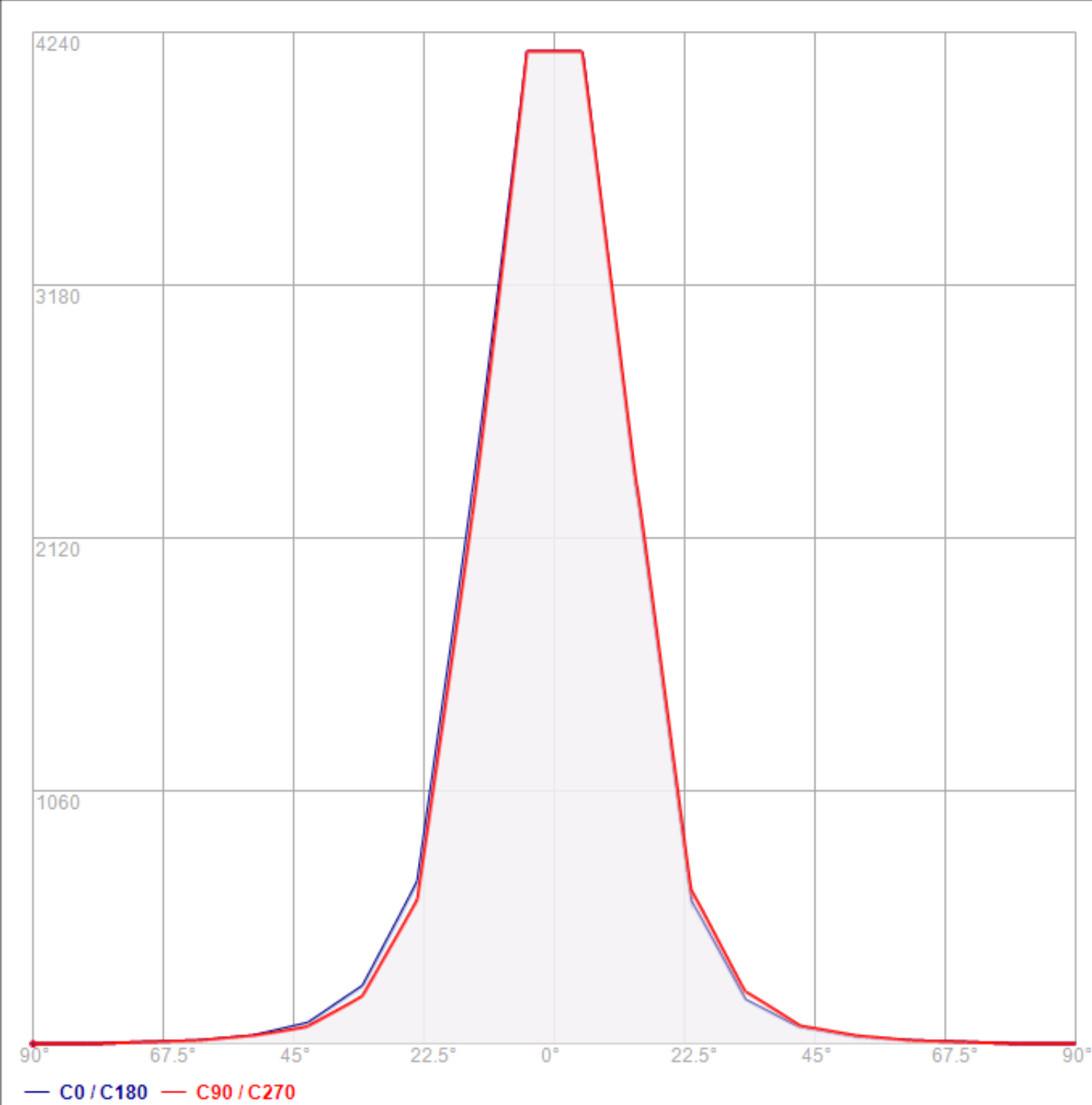
## Luminous intensities

| Gamma | C0°     | C10°    | C20°    | C30°    | C40°    | C50°    | C60°    | C70°    | C80°    | C90°    | C100°   | C110°   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 |
| 10°   | 2343.19 | 2339.73 | 2338.60 | 2339.34 | 2341.55 | 2346.48 | 2355.02 | 2367.23 | 2379.19 | 2389.51 | 2396.00 | 2395.48 |
| 20°   | 605.92  | 610.52  | 617.40  | 624.24  | 628.26  | 628.18  | 628.04  | 630.93  | 638.38  | 651.27  | 667.31  | 679.95  |
| 30°   | 185.97  | 189.78  | 194.70  | 198.98  | 201.07  | 200.44  | 199.69  | 201.81  | 207.66  | 218.25  | 233.31  | 248.27  |
| 40°   | 66.66   | 67.20   | 68.28   | 69.42   | 70.04   | 70.08   | 70.46   | 71.47   | 73.32   | 77.14   | 82.46   | 88.85   |
| 50°   | 30.57   | 30.65   | 30.81   | 30.94   | 31.31   | 31.42   | 31.76   | 32.25   | 32.96   | 34.12   | 35.58   | 37.01   |
| 60°   | 14.01   | 14.06   | 14.18   | 14.63   | 14.73   | 15.00   | 15.35   | 15.75   | 16.13   | 16.58   | 16.97   | 17.35   |
| 70°   | 3.75    | 3.87    | 4.04    | 4.14    | 4.19    | 4.40    | 4.51    | 4.60    | 4.62    | 4.74    | 4.62    | 4.55    |
| 80°   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | 0.00    | 0.00    |
| 90°   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| Gamma | C120°   | C130°   | C140°   | C150°   | C160°   | C170°   | C180°   | C190°   | C200°   | C210°   | C220°   | C230°   |
| 0°    | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 |
| 10°   | 2388.96 | 2377.54 | 2364.48 | 2354.39 | 2349.53 | 2348.69 | 2350.54 | 2350.98 | 2350.69 | 2346.18 | 2336.51 | 2323.28 |
| 20°   | 688.41  | 692.25  | 692.48  | 690.37  | 690.84  | 692.44  | 694.74  | 694.07  | 690.81  | 683.26  | 670.92  | 656.23  |
| 30°   | 257.68  | 258.44  | 252.44  | 244.72  | 240.72  | 242.55  | 248.12  | 253.07  | 253.68  | 246.50  | 234.36  | 221.70  |
| 40°   | 93.50   | 93.46   | 89.90   | 86.18   | 84.66   | 85.31   | 87.79   | 91.22   | 92.12   | 88.97   | 83.53   | 78.77   |
| 50°   | 38.11   | 38.25   | 37.60   | 36.86   | 36.45   | 36.36   | 36.71   | 37.08   | 37.38   | 36.65   | 35.37   | 34.15   |
| 60°   | 17.59   | 17.70   | 17.70   | 17.49   | 17.26   | 17.03   | 17.03   | 16.98   | 17.03   | 16.86   | 16.66   | 16.12   |
| 70°   | 4.45    | 4.35    | 4.40    | 4.31    | 4.09    | 3.99    | 3.80    | 3.82    | 3.82    | 3.70    | 3.70    | 3.75    |
| 80°   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90°   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| Gamma | C240°   | C250°   | C260°   | C270°   | C280°   | C290°   | C300°   | C310°   | C320°   | C330°   | C340°   | C350°   |
| 0°    | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 | 4238.46 |
| 10°   | 2306.42 | 2289.02 | 2272.75 | 2258.04 | 2246.33 | 2236.99 | 2229.57 | 2223.81 | 2219.13 | 2217.22 | 2216.33 | 2216.19 |
| 20°   | 642.61  | 632.26  | 625.25  | 619.41  | 612.73  | 602.97  | 590.43  | 578.37  | 569.33  | 563.36  | 561.10  | 562.23  |
| 30°   | 211.86  | 206.08  | 204.23  | 204.53  | 203.86  | 200.01  | 193.27  | 185.09  | 177.77  | 172.70  | 170.27  | 170.58  |
| 40°   | 75.51   | 73.81   | 73.13   | 72.52   | 71.96   | 70.57   | 68.51   | 66.31   | 64.18   | 62.51   | 61.39   | 61.13   |
| 50°   | 33.16   | 32.73   | 32.41   | 32.11   | 31.76   | 31.14   | 30.54   | 29.82   | 29.35   | 28.45   | 27.91   | 27.66   |
| 60°   | 15.67   | 15.24   | 14.95   | 14.67   | 14.36   | 13.97   | 13.74   | 13.42   | 13.27   | 12.87   | 12.76   | 12.71   |
| 70°   | 3.60    | 3.72    | 3.60    | 3.53    | 3.55    | 3.33    | 3.39    | 3.24    | 3.24    | 3.29    | 3.29    | 3.24    |
| 80°   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 90°   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

Photometric Polar Diagram



Photometric Cartesian Diagram



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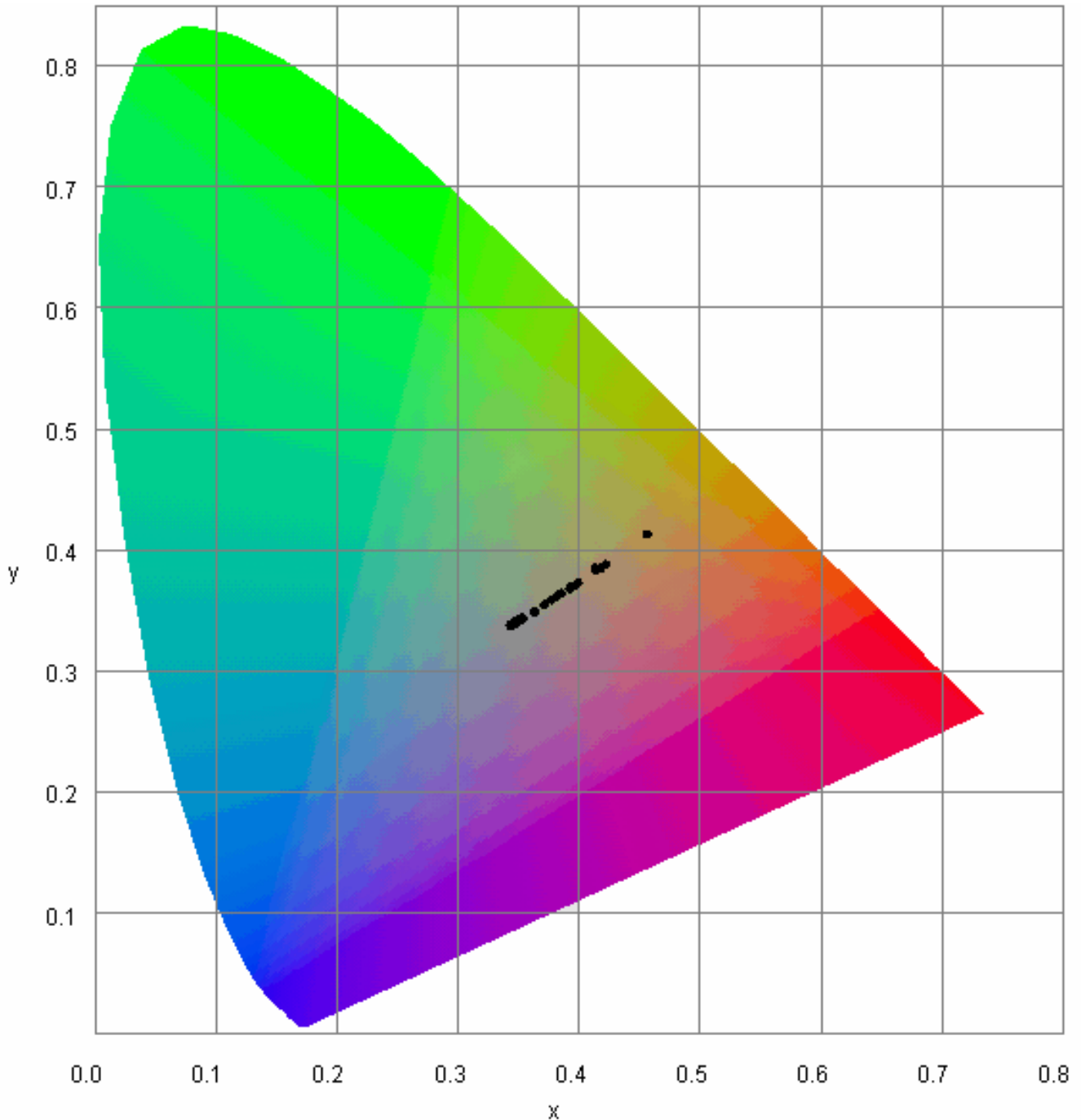
**x y**

| Gamma | C0° x   | C0° y   | C10° x  | C10° y  | C20° x  | C20° y  | C30° x  | C30° y  | C40° x  | C40° y  | C50° x  | C50° y  |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   |
| 10°   | 0.351   | 0.341   | 0.351   | 0.341   | 0.351   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 20°   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   |
| 30°   | 0.349   | 0.340   | 0.349   | 0.340   | 0.348   | 0.340   | 0.348   | 0.340   | 0.349   | 0.340   | 0.349   | 0.341   |
| 40°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.340   | 0.349   | 0.341   |
| 50°   | 0.352   | 0.342   | 0.351   | 0.342   | 0.352   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   |
| 60°   | 0.345   | 0.338   | 0.345   | 0.338   | 0.345   | 0.338   | 0.344   | 0.337   | 0.345   | 0.338   | 0.345   | 0.338   |
| 70°   | 0.350   | 0.341   | 0.347   | 0.339   | 0.345   | 0.338   | 0.347   | 0.339   | 0.348   | 0.340   | 0.347   | 0.339   |
| 80°   | 0.421   | 0.387   | 0.392   | 0.369   | 0.392   | 0.369   | 0.396   | 0.370   | 0.396   | 0.370   | 0.398   | 0.372   |
| 90°   | 0.412   | 0.384   | 0.381   | 0.361   | 0.381   | 0.361   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   |
| Gamma | C60° x  | C60° y  | C70° x  | C70° y  | C80° x  | C80° y  | C90° x  | C90° y  | C100° x | C100° y | C110° x | C110° y |
| 0°    | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   |
| 10°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 20°   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   |
| 30°   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.348   | 0.341   |
| 40°   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.340   | 0.349   | 0.340   | 0.348   | 0.340   |
| 50°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   |
| 60°   | 0.344   | 0.338   | 0.343   | 0.337   | 0.344   | 0.337   | 0.344   | 0.337   | 0.343   | 0.337   | 0.344   | 0.337   |
| 70°   | 0.349   | 0.341   | 0.350   | 0.342   | 0.347   | 0.340   | 0.344   | 0.338   | 0.347   | 0.340   | 0.350   | 0.342   |
| 80°   | 0.398   | 0.372   | 0.376   | 0.358   | 0.376   | 0.358   | 0.398   | 0.372   | 0.398   | 0.372   | 0.398   | 0.372   |
| 90°   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   |
| Gamma | C120° x | C120° y | C130° x | C130° y | C140° x | C140° y | C150° x | C150° y | C160° x | C160° y | C170° x | C170° y |
| 0°    | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   |
| 10°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 20°   | 0.351   | 0.342   | 0.351   | 0.342   | 0.350   | 0.342   | 0.351   | 0.342   | 0.350   | 0.342   | 0.350   | 0.342   |
| 30°   | 0.348   | 0.341   | 0.348   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   |
| 40°   | 0.347   | 0.340   | 0.348   | 0.340   | 0.348   | 0.340   | 0.348   | 0.341   | 0.349   | 0.341   | 0.348   | 0.341   |
| 50°   | 0.348   | 0.341   | 0.348   | 0.340   | 0.348   | 0.340   | 0.348   | 0.340   | 0.348   | 0.340   | 0.347   | 0.340   |
| 60°   | 0.342   | 0.337   | 0.343   | 0.337   | 0.343   | 0.337   | 0.342   | 0.336   | 0.342   | 0.336   | 0.343   | 0.337   |
| 70°   | 0.348   | 0.341   | 0.347   | 0.339   | 0.347   | 0.339   | 0.345   | 0.338   | 0.346   | 0.339   | 0.345   | 0.338   |
| 80°   | 0.398   | 0.372   | 0.396   | 0.370   | 0.396   | 0.370   | 0.396   | 0.370   | 0.370   | 0.354   | 0.392   | 0.369   |
| 90°   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   |
| Gamma | C180° x | C180° y | C190° x | C190° y | C200° x | C200° y | C210° x | C210° y | C220° x | C220° y | C230° x | C230° y |
| 0°    | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   |
| 10°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 20°   | 0.350   | 0.342   | 0.350   | 0.342   | 0.350   | 0.342   | 0.350   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   |
| 30°   | 0.348   | 0.341   | 0.348   | 0.341   | 0.347   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.349   | 0.341   |
| 40°   | 0.347   | 0.340   | 0.347   | 0.340   | 0.346   | 0.340   | 0.346   | 0.340   | 0.348   | 0.340   | 0.348   | 0.341   |
| 50°   | 0.347   | 0.340   | 0.347   | 0.340   | 0.347   | 0.340   | 0.347   | 0.340   | 0.348   | 0.341   | 0.348   | 0.341   |
| 60°   | 0.343   | 0.337   | 0.342   | 0.337   | 0.343   | 0.337   | 0.343   | 0.337   | 0.342   | 0.336   | 0.344   | 0.338   |
| 70°   | 0.351   | 0.343   | 0.346   | 0.339   | 0.346   | 0.339   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 80°   | 0.392   | 0.369   | 0.391   | 0.367   | 0.391   | 0.367   | 0.421   | 0.387   | 0.417   | 0.384   | 0.362   | 0.348   |
| 90°   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   |
| Gamma | C240° x | C240° y | C250° x | C250° y | C260° x | C260° y | C270° x | C270° y | C280° x | C280° y | C290° x | C290° y |
| 0°    | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   |
| 10°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 20°   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   |
| 30°   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.348   | 0.341   |
| 40°   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   |
| 50°   | 0.349   | 0.341   | 0.350   | 0.341   | 0.350   | 0.342   | 0.350   | 0.342   | 0.350   | 0.341   | 0.351   | 0.342   |
| 60°   | 0.345   | 0.338   | 0.344   | 0.337   | 0.345   | 0.338   | 0.345   | 0.338   | 0.343   | 0.337   | 0.344   | 0.337   |
| 70°   | 0.348   | 0.340   | 0.344   | 0.338   | 0.348   | 0.340   | 0.352   | 0.343   | 0.346   | 0.339   | 0.347   | 0.340   |

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|       |         |         |         |         |         |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 80°   | 0.384   | 0.363   | 0.384   | 0.363   | 0.384   | 0.363   | 0.384   | 0.363   | 0.384   | 0.363   | 0.417   | 0.384   |
| 90°   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   | 0.412   | 0.384   |
| Gamma | C300° x | C300° y | C310° x | C310° y | C320° x | C320° y | C330° x | C330° y | C340° x | C340° y | C350° x | C350° y |
| 0°    | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   | 0.348   | 0.341   |
| 10°   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   | 0.350   | 0.341   |
| 20°   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.350   | 0.342   |
| 30°   | 0.348   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.340   | 0.349   | 0.340   | 0.349   | 0.340   |
| 40°   | 0.349   | 0.340   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   | 0.349   | 0.341   |
| 50°   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   | 0.351   | 0.342   |
| 60°   | 0.344   | 0.337   | 0.344   | 0.337   | 0.342   | 0.336   | 0.343   | 0.337   | 0.343   | 0.337   | 0.343   | 0.337   |
| 70°   | 0.348   | 0.340   | 0.345   | 0.339   | 0.345   | 0.339   | 0.346   | 0.338   | 0.346   | 0.338   | 0.345   | 0.339   |
| 80°   | 0.421   | 0.387   | 0.421   | 0.387   | 0.391   | 0.367   | 0.391   | 0.367   | 0.391   | 0.367   | 0.391   | 0.367   |
| 90°   | 0.413   | 0.382   | 0.413   | 0.382   | 0.413   | 0.382   | 0.413   | 0.382   | 0.413   | 0.382   | 0.455   | 0.412   |

**(x,y) chromaticity coordinates (CIE 1931)**



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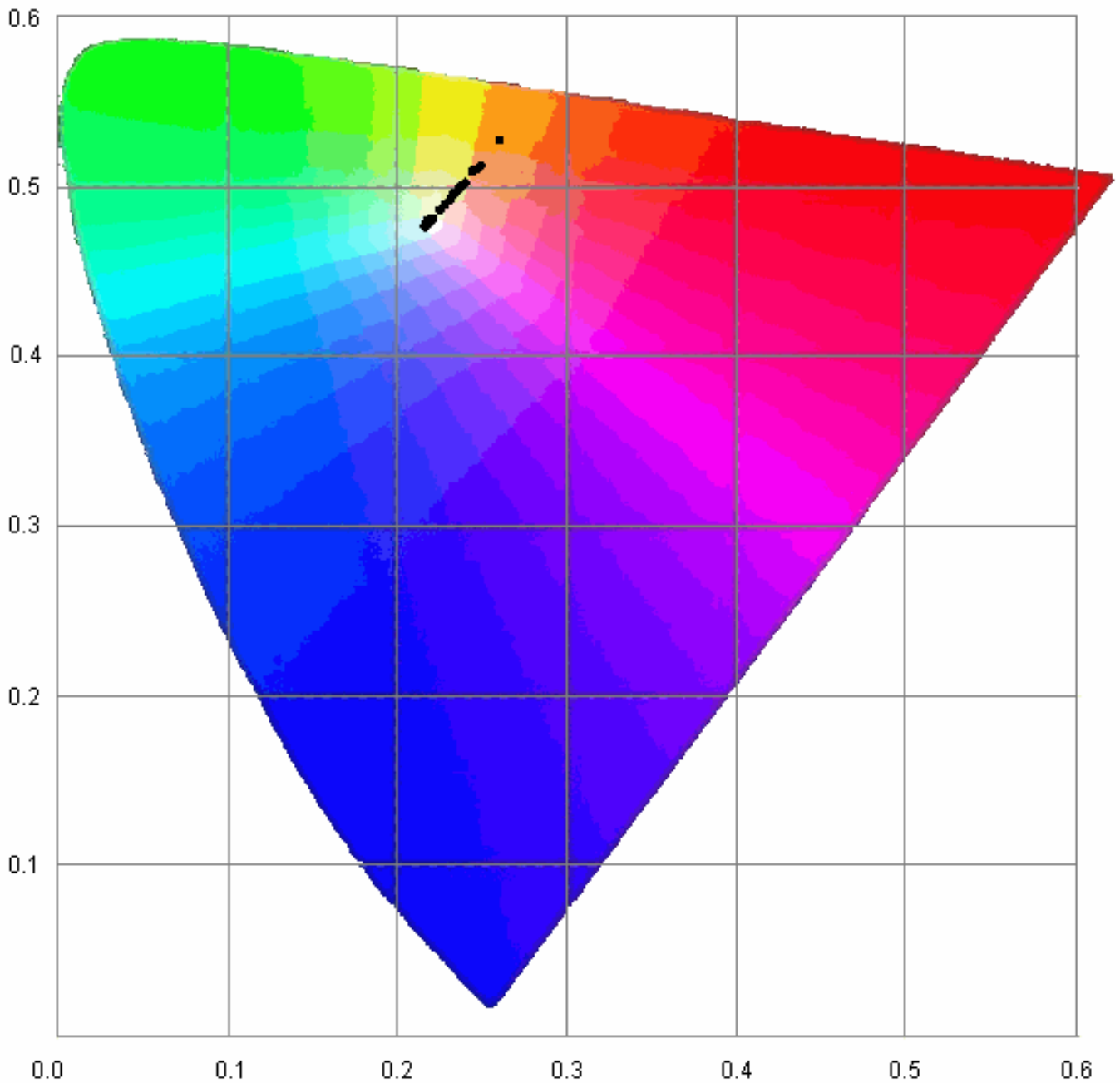
## u' v'

| Gamma | C0° u   | C0° v   | C10° u  | C10° v  | C20° u  | C20° v  | C30° u  | C30° v  | C40° u  | C40° v  | C50° u  | C50° v  |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 10°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 20°   | 0.220   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 30°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 40°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.218   | 0.480   | 0.219   | 0.480   |
| 50°   | 0.220   | 0.481   | 0.219   | 0.481   | 0.220   | 0.481   | 0.220   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 60°   | 0.217   | 0.478   | 0.217   | 0.478   | 0.217   | 0.478   | 0.216   | 0.477   | 0.217   | 0.478   | 0.217   | 0.478   |
| 70°   | 0.219   | 0.480   | 0.217   | 0.479   | 0.217   | 0.478   | 0.218   | 0.479   | 0.218   | 0.480   | 0.218   | 0.479   |
| 80°   | 0.248   | 0.512   | 0.236   | 0.500   | 0.236   | 0.500   | 0.238   | 0.501   | 0.238   | 0.501   | 0.239   | 0.502   |
| 90°   | 0.243   | 0.509   | 0.232   | 0.495   | 0.232   | 0.495   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   |
| Gamma | C60° u  | C60° v  | C70° u  | C70° v  | C80° u  | C80° v  | C90° u  | C90° v  | C100° u | C100° v | C110° u | C110° v |
| 0°    | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 10°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 20°   | 0.219   | 0.481   | 0.220   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 30°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 40°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.479   |
| 50°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 60°   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   |
| 70°   | 0.218   | 0.480   | 0.219   | 0.480   | 0.217   | 0.479   | 0.216   | 0.478   | 0.217   | 0.479   | 0.219   | 0.480   |
| 80°   | 0.239   | 0.502   | 0.230   | 0.492   | 0.230   | 0.492   | 0.239   | 0.502   | 0.239   | 0.502   | 0.239   | 0.502   |
| 90°   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   |
| Gamma | C120° u | C120° v | C130° u | C130° v | C140° u | C140° v | C150° u | C150° v | C160° u | C160° v | C170° u | C170° v |
| 0°    | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 10°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 20°   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 30°   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 40°   | 0.218   | 0.479   | 0.218   | 0.479   | 0.218   | 0.479   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 50°   | 0.218   | 0.480   | 0.218   | 0.479   | 0.218   | 0.479   | 0.218   | 0.480   | 0.218   | 0.479   | 0.217   | 0.479   |
| 60°   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.215   | 0.476   | 0.215   | 0.477   | 0.216   | 0.477   |
| 70°   | 0.218   | 0.480   | 0.217   | 0.479   | 0.218   | 0.479   | 0.217   | 0.478   | 0.217   | 0.479   | 0.216   | 0.478   |
| 80°   | 0.239   | 0.502   | 0.238   | 0.501   | 0.238   | 0.501   | 0.238   | 0.501   | 0.227   | 0.489   | 0.236   | 0.500   |
| 90°   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   |
| Gamma | C180° u | C180° v | C190° u | C190° v | C200° u | C200° v | C210° u | C210° v | C220° u | C220° v | C230° u | C230° v |
| 0°    | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 10°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 20°   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 30°   | 0.218   | 0.480   | 0.217   | 0.480   | 0.217   | 0.480   | 0.217   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 40°   | 0.218   | 0.479   | 0.217   | 0.479   | 0.217   | 0.479   | 0.217   | 0.479   | 0.218   | 0.479   | 0.218   | 0.480   |
| 50°   | 0.217   | 0.479   | 0.217   | 0.479   | 0.217   | 0.479   | 0.217   | 0.479   | 0.218   | 0.480   | 0.218   | 0.480   |
| 60°   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.215   | 0.476   | 0.216   | 0.478   |
| 70°   | 0.219   | 0.481   | 0.217   | 0.479   | 0.217   | 0.479   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 80°   | 0.236   | 0.500   | 0.236   | 0.499   | 0.236   | 0.499   | 0.248   | 0.512   | 0.246   | 0.510   | 0.224   | 0.486   |
| 90°   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   |
| Gamma | C240° u | C240° v | C250° u | C250° v | C260° u | C260° v | C270° u | C270° v | C280° u | C280° v | C290° u | C290° v |
| 0°    | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 10°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 20°   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 30°   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 40°   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 50°   | 0.218   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.481   |
| 60°   | 0.217   | 0.478   | 0.216   | 0.477   | 0.217   | 0.478   | 0.217   | 0.478   | 0.216   | 0.477   | 0.216   | 0.477   |
| 70°   | 0.218   | 0.479   | 0.216   | 0.478   | 0.218   | 0.479   | 0.219   | 0.481   | 0.217   | 0.478   | 0.218   | 0.479   |
| 80°   | 0.233   | 0.496   | 0.233   | 0.496   | 0.233   | 0.496   | 0.233   | 0.496   | 0.233   | 0.496   | 0.246   | 0.510   |

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| 90°   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   | 0.243   | 0.509   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Gamma | C300° u | C300° v | C310° u | C310° v | C320° u | C320° v | C330° u | C330° v | C340° u | C340° v | C350° u | C350° v |
| 0°    | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 10°   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   |
| 20°   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.480   |
| 30°   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   | 0.218   | 0.480   |
| 40°   | 0.218   | 0.480   | 0.218   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.219   | 0.480   | 0.218   | 0.480   |
| 50°   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   | 0.219   | 0.481   |
| 60°   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   | 0.216   | 0.477   |
| 70°   | 0.218   | 0.479   | 0.217   | 0.478   | 0.217   | 0.478   | 0.217   | 0.478   | 0.217   | 0.478   | 0.217   | 0.478   |
| 80°   | 0.248   | 0.512   | 0.248   | 0.512   | 0.236   | 0.499   | 0.236   | 0.499   | 0.236   | 0.499   | 0.236   | 0.499   |
| 90°   | 0.244   | 0.509   | 0.244   | 0.509   | 0.244   | 0.509   | 0.244   | 0.509   | 0.244   | 0.509   | 0.259   | 0.527   |

(u',v') chromaticity diagram (CIE 1976)





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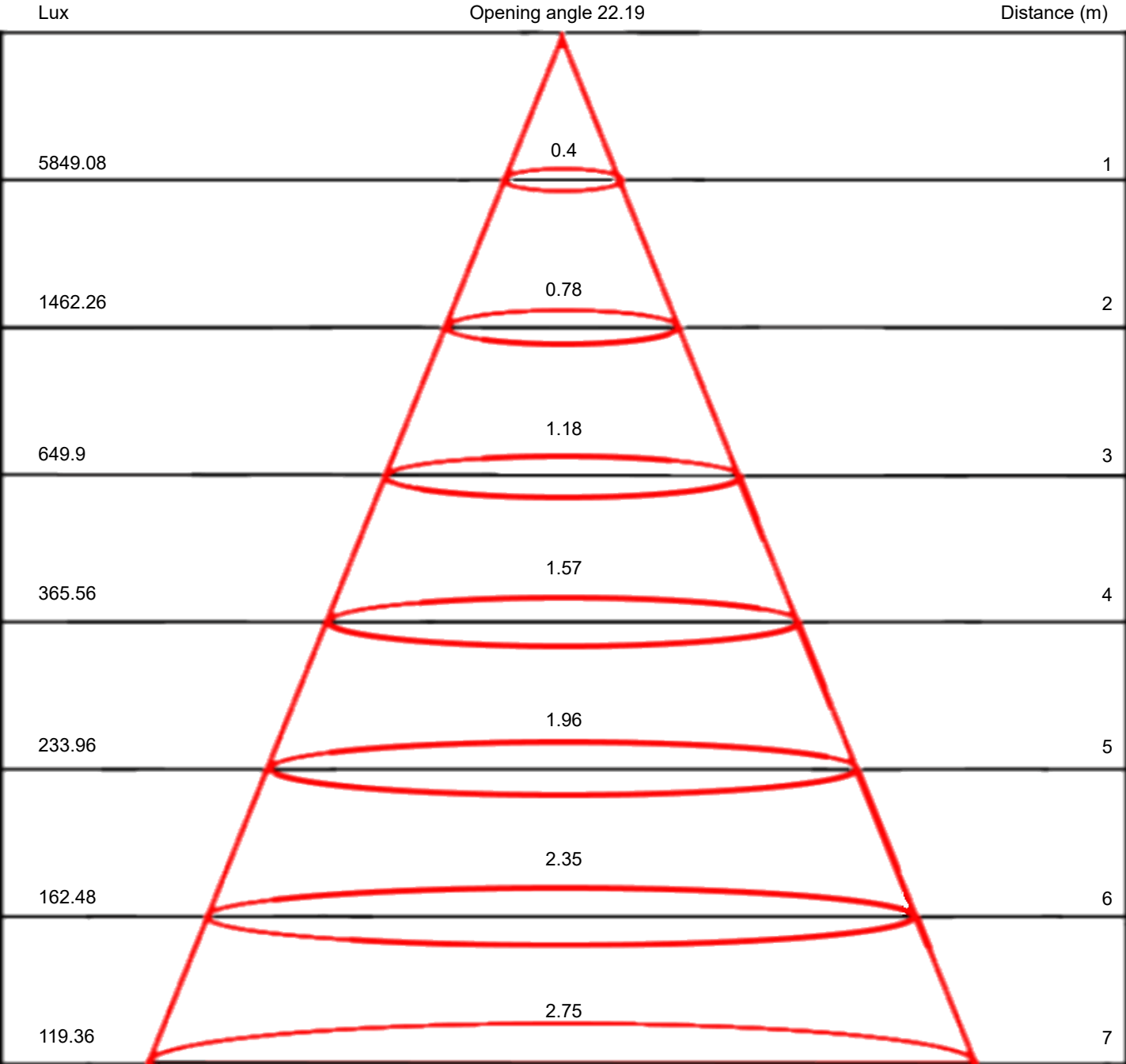
## Color temperature

| Gamma | C0°     | C10°    | C20°    | C30°    | C40°    | C50°    | C60°    | C70°    | C80°    | C90°    | C100°   | C110°   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 |
| 10°   | 4737.00 | 4737.00 | 4737.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 |
| 20°   | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 |
| 30°   | 4810.00 | 4810.00 | 4850.00 | 4850.00 | 4810.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4854.00 |
| 40°   | 4776.00 | 4776.00 | 4815.00 | 4815.00 | 4810.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4810.00 | 4810.00 | 4850.00 |
| 50°   | 4704.00 | 4742.00 | 4704.00 | 4742.00 | 4742.00 | 4742.00 | 4776.00 | 4776.00 | 4776.00 | 4815.00 | 4815.00 | 4815.00 |
| 60°   | 4963.00 | 4963.00 | 4963.00 | 5001.00 | 4963.00 | 4963.00 | 5004.00 | 5042.00 | 5001.00 | 5001.00 | 5042.00 | 5001.00 |
| 70°   | 4776.00 | 4886.00 | 4963.00 | 4886.00 | 4850.00 | 4886.00 | 4815.00 | 4780.00 | 4890.00 | 5004.00 | 4890.00 | 4780.00 |
| 80°   | 3153.00 | 3648.00 | 3648.00 | 3556.00 | 3556.00 | 3525.00 | 3525.00 | 4000.00 | 4000.00 | 3525.00 | 3525.00 | 3525.00 |
| 90°   | 3311.00 | 3878.00 | 3878.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 |
| Gamma | C120°   | C130°   | C140°   | C150°   | C160°   | C170°   | C180°   | C190°   | C200°   | C210°   | C220°   | C230°   |
| 0°    | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 |
| 10°   | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 |
| 20°   | 4742.00 | 4742.00 | 4780.00 | 4742.00 | 4780.00 | 4780.00 | 4780.00 | 4780.00 | 4780.00 | 4780.00 | 4742.00 | 4742.00 |
| 30°   | 4854.00 | 4854.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4854.00 | 4854.00 | 4893.00 | 4854.00 | 4854.00 | 4815.00 |
| 40°   | 4890.00 | 4850.00 | 4850.00 | 4854.00 | 4815.00 | 4854.00 | 4890.00 | 4890.00 | 4930.00 | 4930.00 | 4850.00 | 4854.00 |
| 50°   | 4854.00 | 4850.00 | 4850.00 | 4850.00 | 4850.00 | 4890.00 | 4890.00 | 4890.00 | 4890.00 | 4890.00 | 4854.00 | 4854.00 |
| 60°   | 5084.00 | 5042.00 | 5042.00 | 5082.00 | 5082.00 | 5042.00 | 5042.00 | 5084.00 | 5042.00 | 5042.00 | 5082.00 | 5004.00 |
| 70°   | 4854.00 | 4886.00 | 4886.00 | 4963.00 | 4926.00 | 4963.00 | 4746.00 | 4926.00 | 4926.00 | 4776.00 | 4776.00 | 4776.00 |
| 80°   | 3525.00 | 3556.00 | 3556.00 | 3556.00 | 4154.00 | 3648.00 | 3648.00 | 3657.00 | 3657.00 | 3153.00 | 3207.00 | 4376.00 |
| 90°   | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 |
| Gamma | C240°   | C250°   | C260°   | C270°   | C280°   | C290°   | C300°   | C310°   | C320°   | C330°   | C340°   | C350°   |
| 0°    | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 | 4838.00 |
| 10°   | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 | 4776.00 |
| 20°   | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4780.00 |
| 30°   | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4854.00 | 4854.00 | 4815.00 | 4815.00 | 4810.00 | 4810.00 | 4810.00 |
| 40°   | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4810.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 | 4815.00 |
| 50°   | 4815.00 | 4776.00 | 4780.00 | 4780.00 | 4776.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 | 4742.00 |
| 60°   | 4963.00 | 5001.00 | 4963.00 | 4963.00 | 5042.00 | 5001.00 | 5001.00 | 5001.00 | 5082.00 | 5042.00 | 5042.00 | 5042.00 |
| 70°   | 4850.00 | 5004.00 | 4850.00 | 4708.00 | 4926.00 | 4890.00 | 4850.00 | 4966.00 | 4966.00 | 4922.00 | 4922.00 | 4966.00 |
| 80°   | 3810.00 | 3810.00 | 3810.00 | 3810.00 | 3810.00 | 3207.00 | 3153.00 | 3153.00 | 3657.00 | 3657.00 | 3657.00 | 3657.00 |
| 90°   | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3311.00 | 3273.00 | 3273.00 | 3273.00 | 3273.00 | 3273.00 | 2780.00 |

**Light Emission Photo**



**Opening angle**



# PHOTOMETRIC MEASUREMENT REPORT N° StarEye Maxi 5000K 22°

## Glare Evaluation According to UGR

|                             |   |       |       |       |       |  |       |       |       |       |       |
|-----------------------------|---|-------|-------|-------|-------|--|-------|-------|-------|-------|-------|
| ρ Ceiling                   | 70  | 70    | 50    | 50    | 30    | 70   | 70    | 50    | 50    | 30    |       |
| ρ Walls                     | 50  | 30    | 50    | 30    | 30    | 50   | 30    | 50    | 30    | 30    |       |
| ρ Working plane             | 20  | 20    | 20    | 20    | 20    | 20   | 20    | 20    | 20    | 20    |       |
| Room Size<br>x            y | Viewing direction at right angles<br>to lamp axis |       |       |       |       | Viewing direction parallel<br>to lamp axis |       |       |       |       |       |
| 2H                          | 2H  | 13.79 | 13.98 | 13.79 | 13.98 | 13.98                                      | 14.81 | 15.00 | 14.81 | 15.00 | 15.00 |
|                             | 3H  | 14.01 | 14.12 | 14.01 | 14.12 | 14.12                                      | 14.99 | 15.11 | 14.99 | 15.11 | 15.11 |
|                             | 4H  | 14.02 | 14.12 | 14.02 | 14.12 | 14.12                                      | 15.00 | 15.12 | 15.00 | 15.12 | 15.12 |
|                             | 6H  | 14.04 | 14.14 | 14.04 | 14.14 | 14.14                                      | 15.02 | 15.13 | 15.02 | 15.13 | 15.13 |
|                             | 8H  | 14.05 | 14.14 | 14.05 | 14.14 | 14.14                                      | 15.03 | 15.13 | 15.03 | 15.13 | 15.13 |
|                             | 12H   | 14.05 | 14.14 | 14.05 | 14.14 | 14.14                                      | 15.03 | 15.13 | 15.03 | 15.13 | 15.13 |
| 4H                          | 2H  | 13.99 | 14.10 | 13.99 | 14.10 | 14.10                                      | 15.03 | 15.14 | 15.03 | 15.14 | 15.14 |
|                             | 3H  | 14.22 | 14.24 | 14.22 | 14.24 | 14.24                                      | 15.23 | 15.26 | 15.23 | 15.26 | 15.26 |
|                             | 4H  | 14.23 | 14.25 | 14.23 | 14.25 | 14.25                                      | 15.24 | 15.27 | 15.24 | 15.27 | 15.27 |
|                             | 6H  | 14.26 | 14.27 | 14.26 | 14.27 | 14.27                                      | 15.27 | 15.28 | 15.27 | 15.28 | 15.28 |
|                             | 8H  | 14.26 | 14.27 | 14.26 | 14.27 | 14.27                                      | 15.27 | 15.28 | 15.27 | 15.28 | 15.28 |
|                             | 12H   | 14.26 | 14.27 | 14.26 | 14.27 | 14.27                                      | 15.27 | 15.28 | 15.27 | 15.28 | 15.28 |
| 8H                          | 4H  | 14.26 | 14.27 | 14.26 | 14.27 | 14.27                                      | 15.28 | 15.29 | 15.28 | 15.29 | 15.29 |
|                             | 6H  | 14.28 | 14.28 | 14.28 | 14.28 | 14.28                                      | 15.30 | 15.30 | 15.30 | 15.30 | 15.30 |
|                             | 8H  | 14.29 | 14.29 | 14.29 | 14.29 | 14.29                                      | 15.30 | 15.30 | 15.30 | 15.30 | 15.30 |
|                             | 12H   | 14.29 | 14.29 | 14.29 | 14.29 | 14.29                                      | 15.30 | 15.30 | 15.30 | 15.30 | 15.30 |
| 12H                         | 4H  | 14.26 | 14.27 | 14.26 | 14.27 | 14.27                                      | 15.28 | 15.29 | 15.28 | 15.29 | 15.29 |
|                             | 6H  | 14.28 | 14.28 | 14.28 | 14.28 | 14.28                                      | 15.30 | 15.30 | 15.30 | 15.30 | 15.30 |
|                             | 8H  | 14.29 | 14.29 | 14.29 | 14.29 | 14.29                                      | 15.30 | 15.30 | 15.30 | 15.30 | 15.30 |