

Report No.:

Test Time: 2024/9/18 17:58:13

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer: InBright  
Luminaire Type: IBSP104SCT095H98-2F-24°  
Lamp Type:  
Luminous Width: 90 mm  
Luminous Length: 185 mm  
Luminous Height: 70 mm

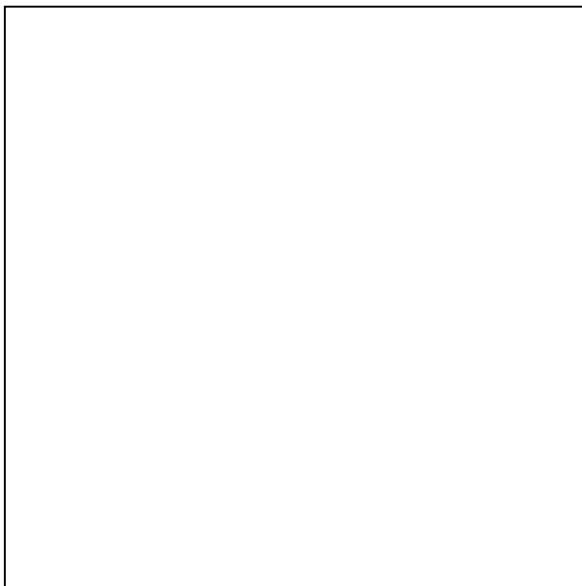
Voltage(V): 219.90 V  
Current(A): 0.1410 A  
Power(W): 29.52 W  
Power Factor: 0.9480  
Lamp Luminous Flux: 2880.80

### Photometric Results

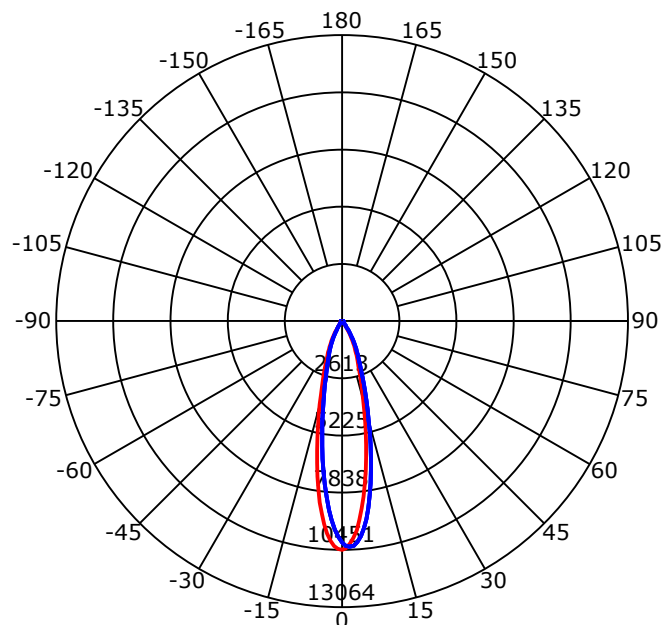
CIE Class: Direct  
Luminaire Luminous Flux: 2880.804 lm  
Downward Ratio: 100.00%  
Luminaire Efficacy Rating(LER): 97.59 lm/W  
Beam Angle(50%) C0-180,C90-270: 24.3,24.3  
Field Angle(10%) C0-180,C90-270: 55.7,56.1  
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 10450.95 cd  
Max.Intensity Angle: C=180 Gamma=0  
Upward Ratio: 0.00%  
Efficacy: 100.00%  
Center Intensity: 10450.95 cd  
Effective Luminous Flux: 2398.74 lm  
ERP( $\phi$ use)(120deg): 2855.21 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 24.3 deg,24.3 deg

C0-180 — C90-270 —

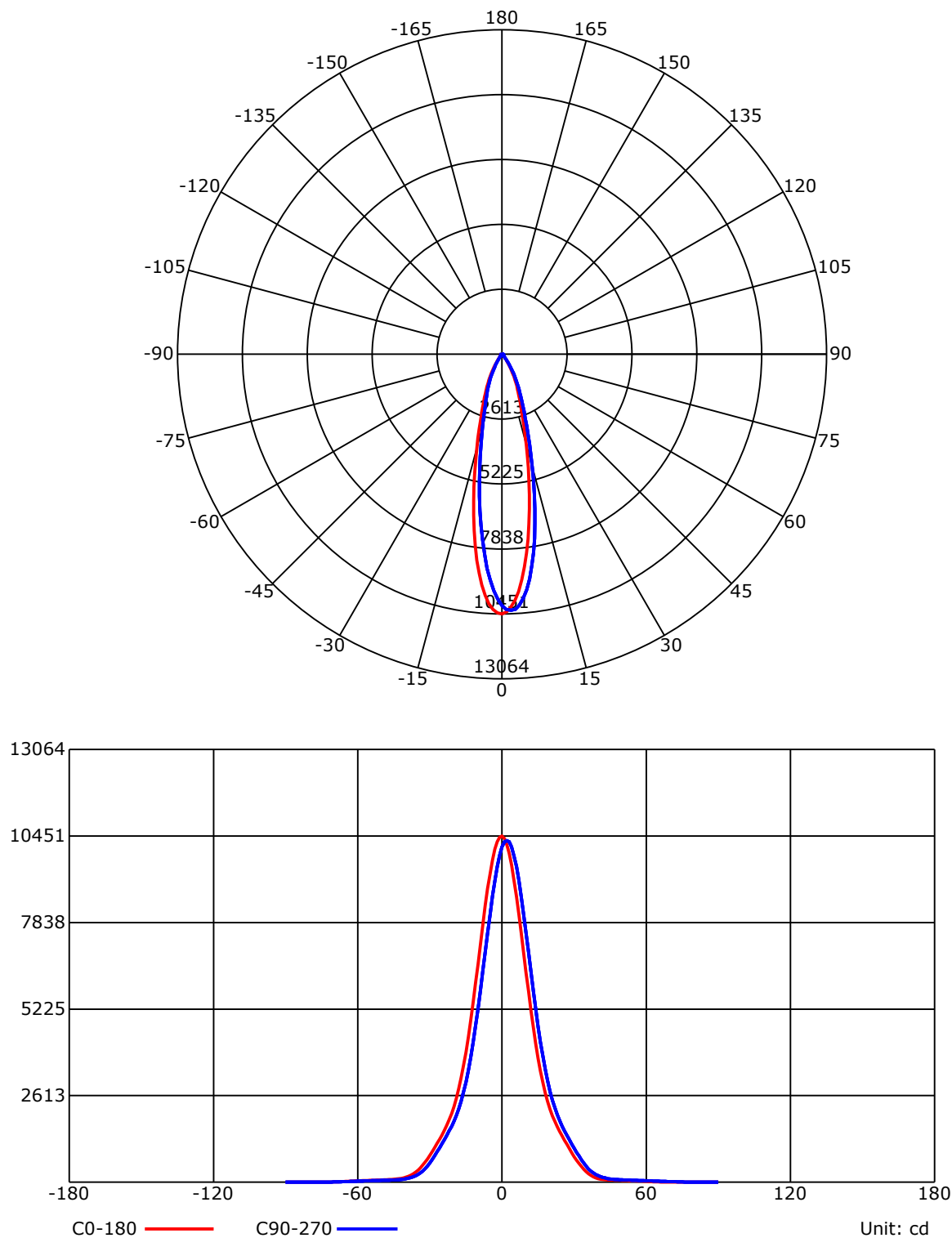
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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## Luminous Intensity Distribution Curve



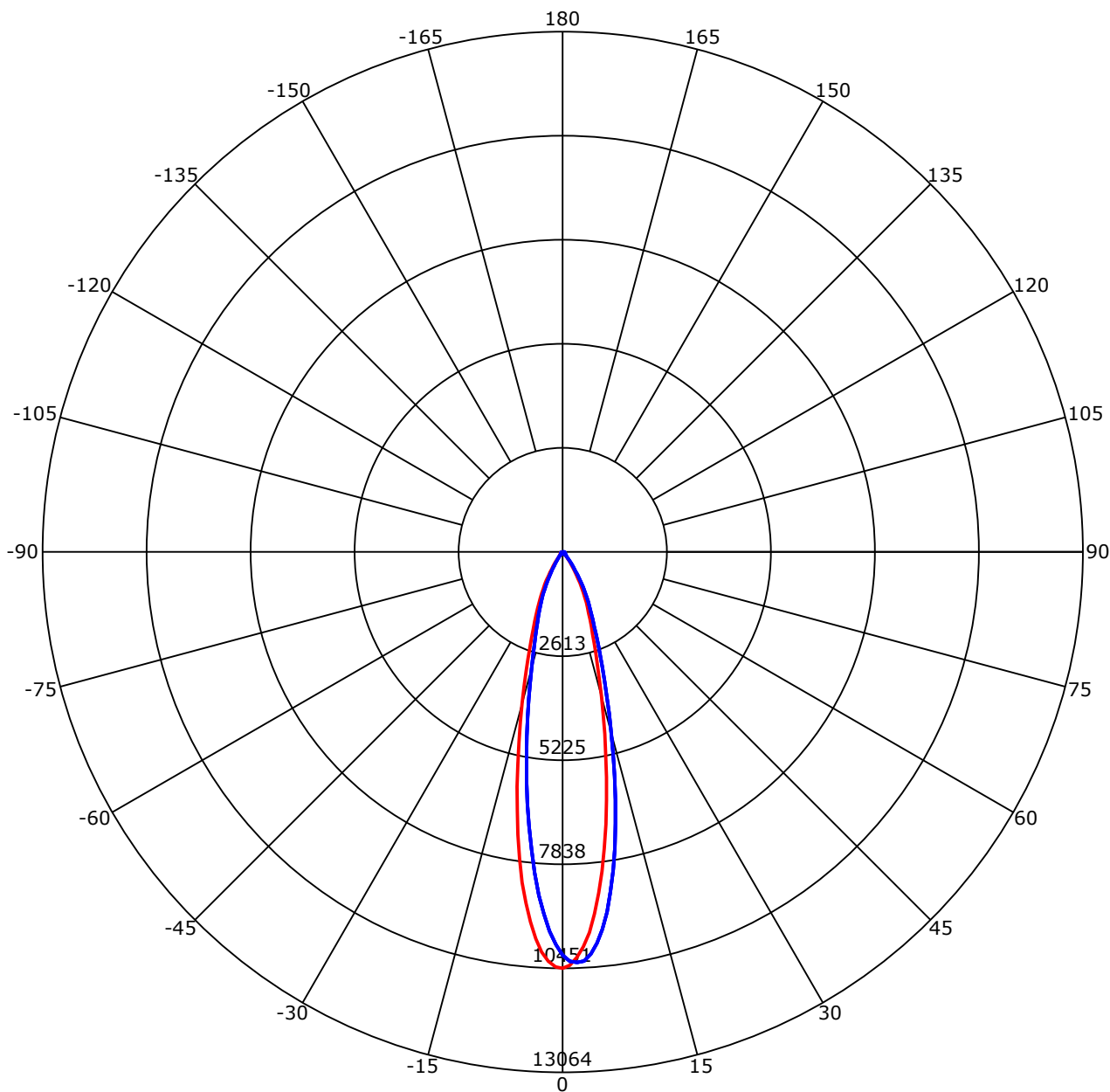
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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## Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

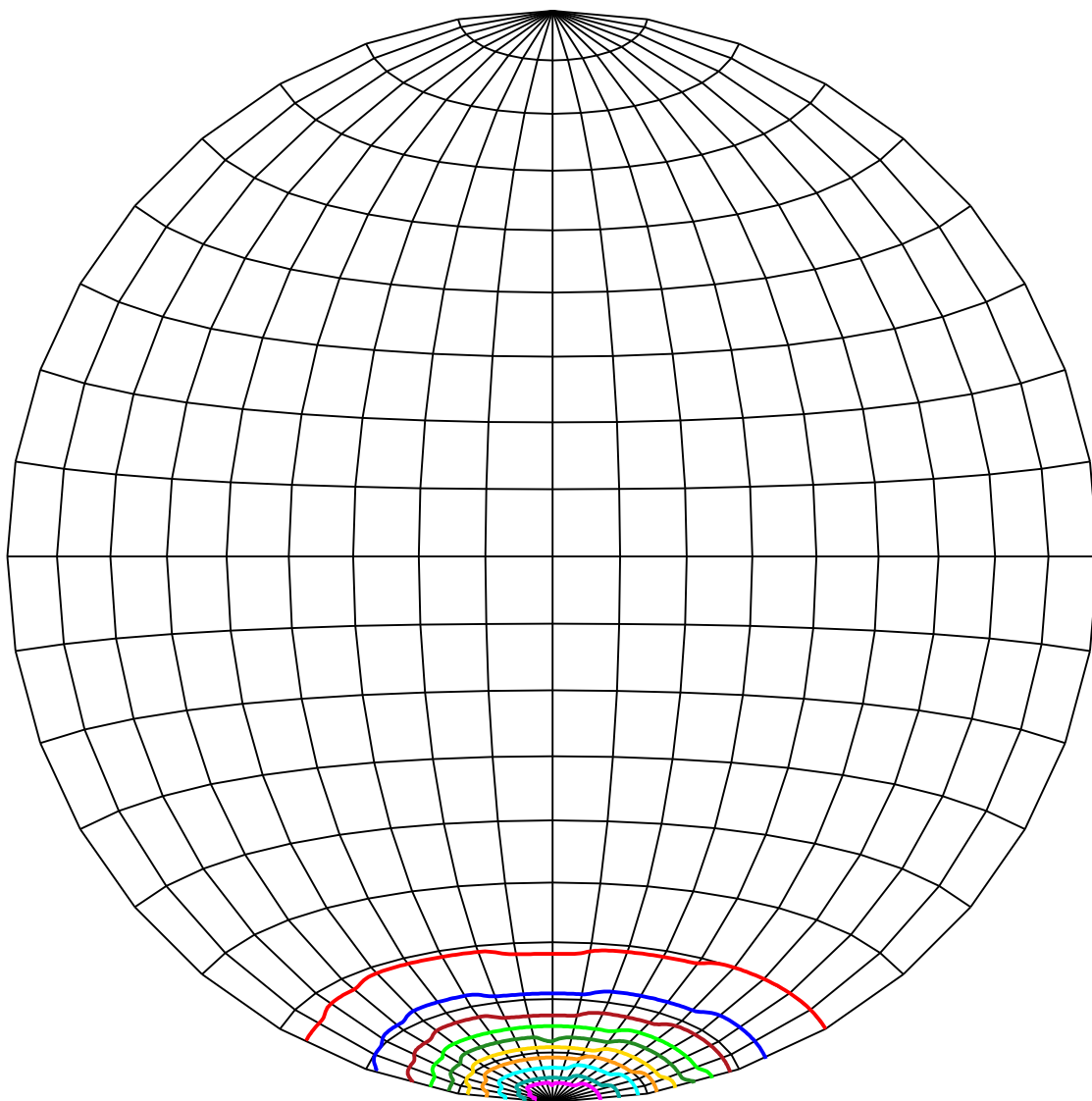
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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## ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd    I<sub>max</sub>(100%): 10450.95 cd

|                                |                                |
|--------------------------------|--------------------------------|
| 9928.399(95%I <sub>max</sub> ) | 5225.474(50%I <sub>max</sub> ) |
| 9405.853(90%I <sub>max</sub> ) | 4180.379(40%I <sub>max</sub> ) |
| 8360.758(80%I <sub>max</sub> ) | 3135.284(30%I <sub>max</sub> ) |
| 7315.663(70%I <sub>max</sub> ) | 2090.189(20%I <sub>max</sub> ) |
| 6270.569(60%I <sub>max</sub> ) | 1045.095(10%I <sub>max</sub> ) |

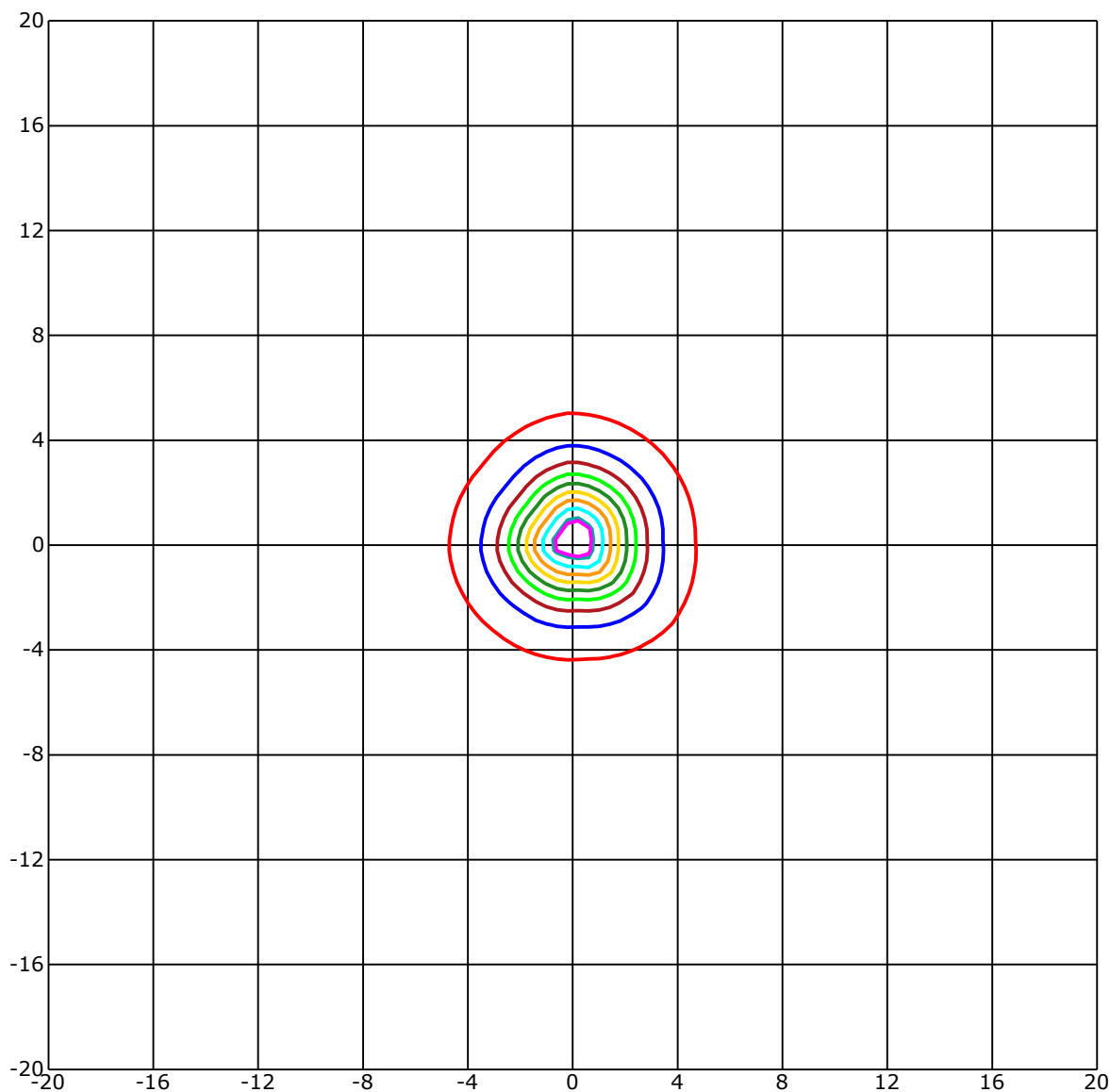
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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## ISOLX DIAGRAM



Unit of illumination:lx      Height of plane:10.0(m)/32.81(ft)

|                 |                 |
|-----------------|-----------------|
| 96.149(92%Emax) | 52.255(50%Emax) |
| 94.059(90%Emax) | 41.804(40%Emax) |
| 83.608(80%Emax) | 31.353(30%Emax) |
| 73.157(70%Emax) | 20.902(20%Emax) |
| 62.706(60%Emax) | 10.451(10%Emax) |

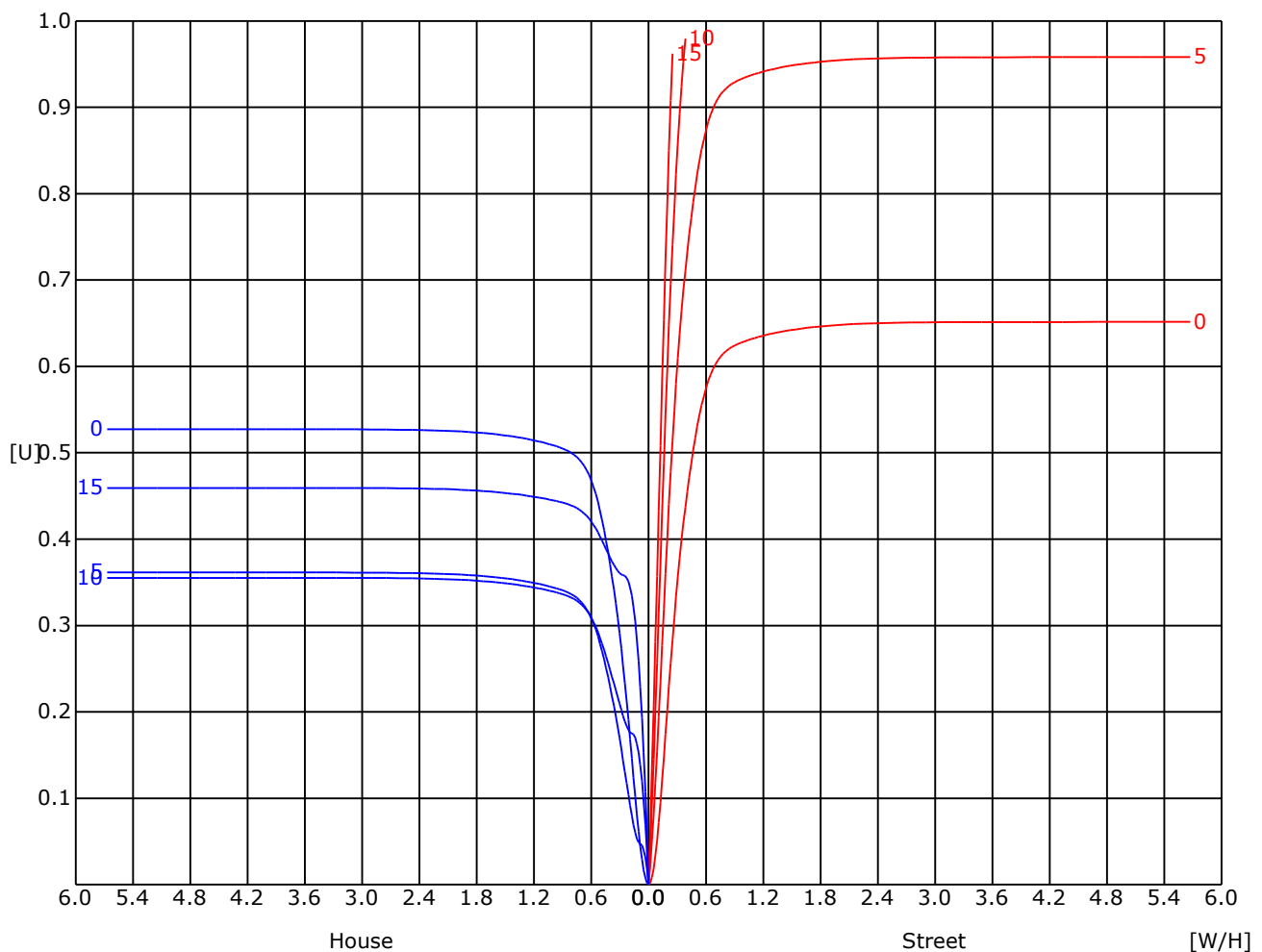
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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## UTILIZATION FACTOR DIAGRAM (ROAD)



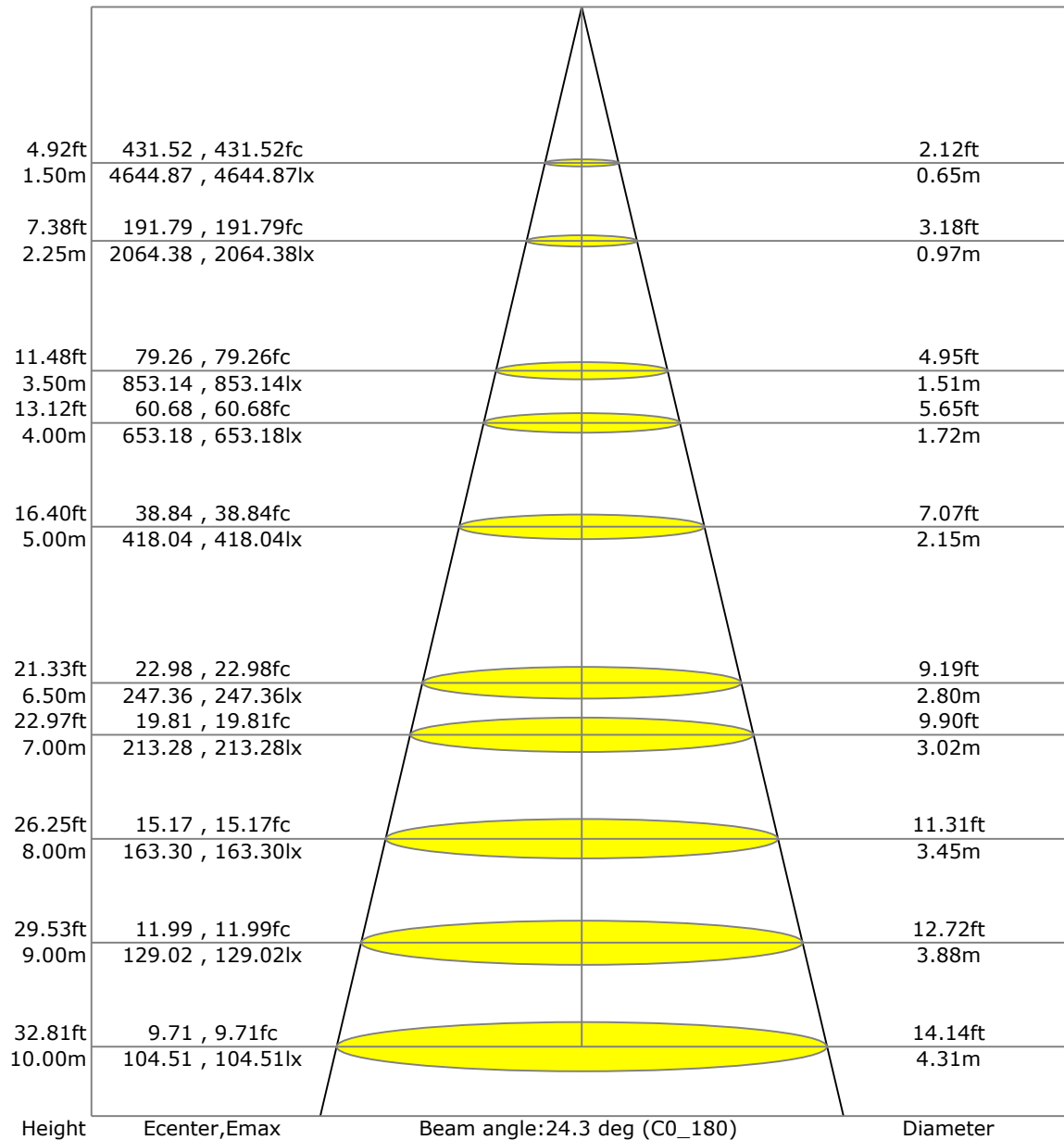
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

Report No.:

Test Time: 2024/9/18 17:58:13

## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

Report No.:

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UGR(Unified Glare Rating) TABLE

|                  |                |      |      |      |      |                  |      |      |      |      |
|------------------|----------------|------|------|------|------|------------------|------|------|------|------|
| RHOCC            | 70             | 70   | 50   | 50   | 30   | 70               | 70   | 50   | 50   | 30   |
| RHOW             | 50             | 30   | 50   | 30   | 30   | 50               | 30   | 50   | 30   | 30   |
| RHOF             | 20             | 20   | 20   | 20   | 20   | 20               | 20   | 20   | 20   | 20   |
| Room Size<br>X Y | Viewed Endwise |      |      |      |      | Viewed Crosswise |      |      |      |      |
| 2H 2H            | 6.93           | 6.99 | 7.13 | 7.18 | 7.42 | 7.17             | 7.23 | 7.37 | 7.42 | 7.66 |
| 3H               | 6.93           | 6.99 | 7.14 | 7.18 | 7.43 | 7.16             | 7.21 | 7.36 | 7.41 | 7.65 |
| 4H               | 6.92           | 6.98 | 7.13 | 7.17 | 7.42 | 7.14             | 7.20 | 7.35 | 7.40 | 7.65 |
| 6H               | 6.90           | 6.96 | 7.12 | 7.16 | 7.42 | 7.13             | 7.19 | 7.34 | 7.39 | 7.64 |
| 8H               | 6.90           | 6.95 | 7.11 | 7.16 | 7.41 | 7.12             | 7.18 | 7.34 | 7.38 | 7.63 |
| 12H              | 6.89           | 6.95 | 7.11 | 7.15 | 7.41 | 7.11             | 7.17 | 7.33 | 7.37 | 7.63 |
| 4H 2H            | 6.98           | 7.04 | 7.19 | 7.23 | 7.48 | 7.53             | 7.59 | 7.74 | 7.79 | 8.04 |
| 3H               | 6.97           | 7.03 | 7.19 | 7.24 | 7.49 | 7.51             | 7.57 | 7.73 | 7.78 | 8.03 |
| 4H               | 6.95           | 7.01 | 7.18 | 7.23 | 7.48 | 7.49             | 7.55 | 7.72 | 7.76 | 8.02 |
| 6H               | 6.93           | 6.99 | 7.17 | 7.21 | 7.47 | 7.47             | 7.53 | 7.71 | 7.75 | 8.01 |
| 8H               | 6.92           | 6.98 | 7.16 | 7.20 | 7.47 | 7.45             | 7.51 | 7.70 | 7.74 | 8.01 |
| 12H              | 6.91           | 6.96 | 7.15 | 7.19 | 7.46 | 7.44             | 7.50 | 7.69 | 7.73 | 8.00 |
| 8H 4H            | 6.95           | 7.01 | 7.17 | 7.22 | 7.47 | 7.51             | 7.57 | 7.73 | 7.78 | 8.03 |
| 6H               | 6.89           | 6.95 | 7.15 | 7.19 | 7.46 | 7.43             | 7.49 | 7.69 | 7.73 | 8.00 |
| 8H               | 6.88           | 6.93 | 7.14 | 7.18 | 7.45 | 7.42             | 7.47 | 7.68 | 7.72 | 8.00 |
| 12H              | 6.86           | 6.91 | 7.13 | 7.17 | 7.45 | 7.40             | 7.45 | 7.67 | 7.71 | 7.99 |
| 12H 4H           | 6.91           | 6.96 | 7.15 | 7.19 | 7.46 | 7.45             | 7.50 | 7.70 | 7.74 | 8.01 |
| 6H               | 6.88           | 6.93 | 7.14 | 7.18 | 7.45 | 7.42             | 7.47 | 7.68 | 7.72 | 8.00 |

C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

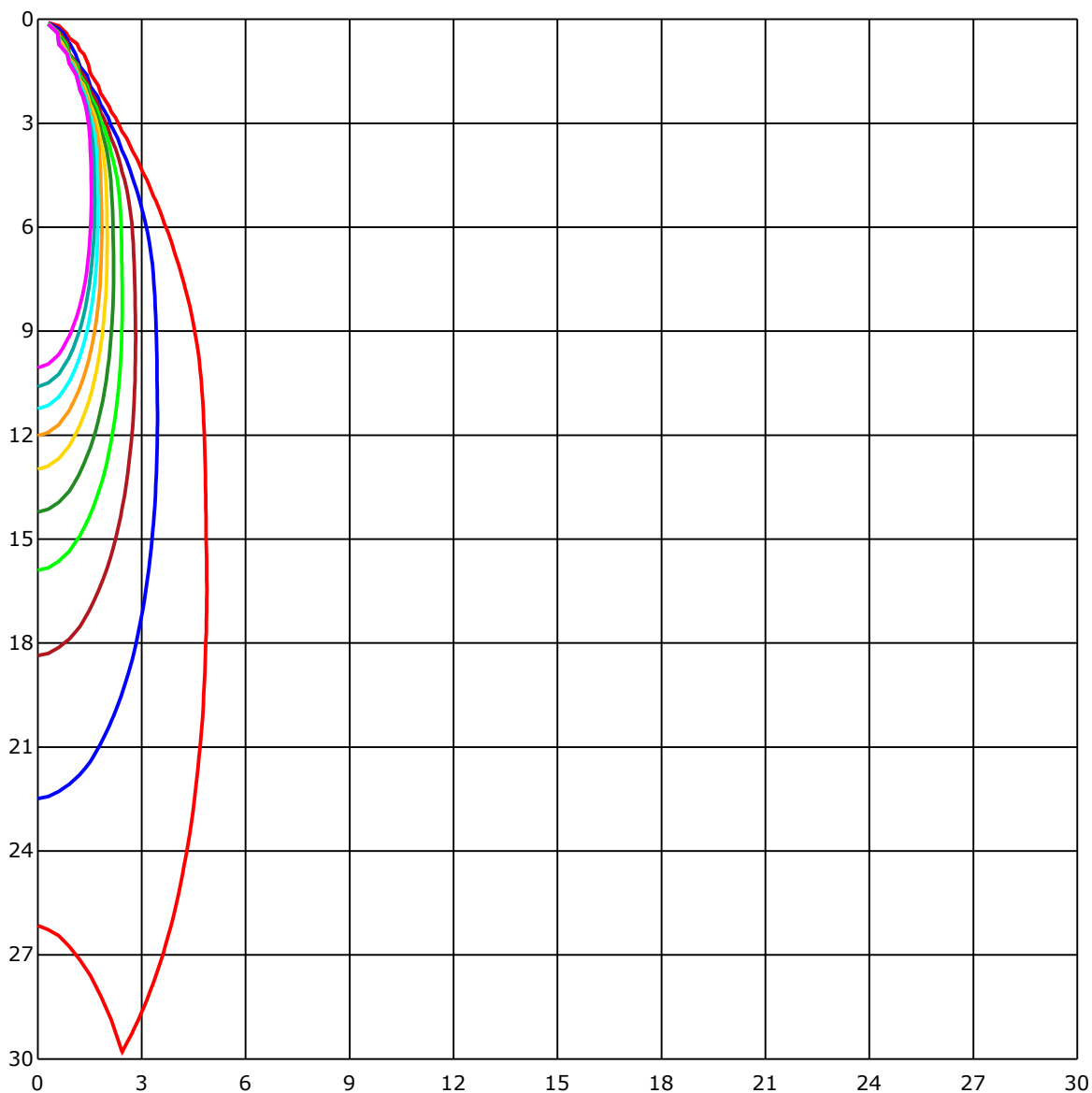


G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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## SPACE ISOLX DIAGRAM



Unit of illumination:lx

|         |        |
|---------|--------|
| 103.318 | 51.659 |
| 92.986  | 41.327 |
| 82.655  | 30.995 |
| 72.323  | 20.664 |
| 61.991  | 10.332 |

C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

Report No.:

Test Time: 2024/9/18 17:58:13

LUMINOUS DISTRIBUTION INTENSITY DATA

| Gamma\C | C0       | C45      | C90      | C135     | C180     | C225     | C270     | C315     | C360     |  |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| G0      | 10450.95 | 10262.1  | 10117.97 | 10351.98 | 10450.95 | 10262.1  | 10117.97 | 10351.98 | 10450.95 |  |
| G1      | 10376.0  | 10352.07 | 10275.55 | 10265.91 | 10414.08 | 10052.21 | 9858.21  | 10348.92 | 10376.0  |  |
| G2      | 10182.43 | 10340.15 | 10312.1  | 10070.01 | 10281.44 | 9771.26  | 9521.25  | 10231.26 | 10182.43 |  |
| G3      | 9925.46  | 10202.51 | 10281.63 | 9807.02  | 10059.9  | 9404.01  | 9091.48  | 10008.98 | 9925.46  |  |
| G4      | 9576.02  | 9993.22  | 10116.67 | 9424.5   | 9727.71  | 8951.01  | 8642.28  | 9693.16  | 9576.02  |  |
| G5      | 9114.11  | 9691.96  | 9852.83  | 8995.15  | 9318.03  | 8434.47  | 8083.82  | 9320.72  | 9114.11  |  |
| G6      | 8610.84  | 9316.49  | 9528.99  | 8486.46  | 8860.2   | 7898.55  | 7507.46  | 8844.66  | 8610.84  |  |
| G7      | 8076.35  | 8832.65  | 9109.47  | 7960.6   | 8354.42  | 7296.35  | 6938.98  | 8345.29  | 8076.35  |  |
| G8      | 7514.55  | 8297.89  | 8611.62  | 7370.42  | 7768.18  | 6721.52  | 6381.03  | 7792.67  | 7514.55  |  |
| G9      | 6922.33  | 7743.23  | 8083.49  | 6774.16  | 7183.19  | 6133.38  | 5789.04  | 7238.34  | 6922.33  |  |
| G10     | 6329.5   | 7167.89  | 7537.04  | 6210.55  | 6586.33  | 5552.8   | 5244.35  | 6645.93  | 6329.5   |  |
| G11     | 5760.19  | 6575.48  | 6938.1   | 5641.51  | 6006.77  | 5007.97  | 4713.16  | 6085.29  | 5760.19  |  |
| G12     | 5187.26  | 6005.52  | 6360.39  | 5087.18  | 5431.66  | 4502.52  | 4221.57  | 5536.7   | 5187.26  |  |
| G13     | 4685.66  | 5435.84  | 5783.38  | 4580.38  | 4895.46  | 4031.43  | 3778.77  | 5007.41  | 4685.66  |  |
| G14     | 4189.71  | 4893.93  | 5249.45  | 4099.69  | 4391.58  | 3608.43  | 3386.29  | 4519.4   | 4189.71  |  |
| G15     | 3746.35  | 4388.52  | 4711.95  | 3673.36  | 3937.47  | 3231.72  | 3025.25  | 4068.71  | 3746.35  |  |
| G16     | 3358.84  | 3925.64  | 4235.34  | 3287.65  | 3514.57  | 2894.33  | 2722.56  | 3647.94  | 3358.84  |  |
| G17     | 2996.31  | 3501.12  | 3791.76  | 2946.23  | 3151.72  | 2592.56  | 2444.76  | 3271.32  | 2996.31  |  |
| G18     | 2681.61  | 3131.27  | 3398.86  | 2637.08  | 2826.72  | 2339.26  | 2210.19  | 2935.1   | 2681.61  |  |
| G19     | 2423.15  | 2794.76  | 3047.88  | 2373.34  | 2537.56  | 2116.7   | 2013.14  | 2649.47  | 2423.15  |  |
| G20     | 2196.0   | 2512.29  | 2737.35  | 2144.76  | 2287.97  | 1930.78  | 1842.11  | 2400.57  | 2196.0   |  |
| G21     | 2003.54  | 2263.53  | 2471.52  | 1947.33  | 2070.88  | 1763.87  | 1685.54  | 2178.84  | 2003.54  |  |
| G22     | 1824.25  | 2053.53  | 2236.49  | 1769.9   | 1882.64  | 1614.4   | 1549.15  | 1985.08  | 1824.25  |  |
| G23     | 1670.93  | 1870.12  | 2030.67  | 1616.67  | 1717.26  | 1475.32  | 1411.87  | 1816.88  | 1670.93  |  |
| G24     | 1525.31  | 1713.04  | 1854.58  | 1475.69  | 1563.48  | 1342.96  | 1284.15  | 1662.91  | 1525.31  |  |
| G25     | 1397.64  | 1567.14  | 1694.17  | 1344.17  | 1426.62  | 1218.95  | 1164.04  | 1523.92  | 1397.64  |  |
| G26     | 1265.37  | 1432.05  | 1548.03  | 1213.52  | 1293.94  | 1097.21  | 1040.49  | 1389.29  | 1265.37  |  |
| G27     | 1136.31  | 1300.71  | 1409.83  | 1091.55  | 1168.26  | 973.2    | 922.24   | 1255.03  | 1136.31  |  |
| G28     | 1010.95  | 1174.99  | 1279.01  | 970.84   | 1045.74  | 856.94   | 803.51   | 1122.81  | 1010.95  |  |
| G29     | 889.03   | 1052.46  | 1149.76  | 856.15   | 929.47   | 743.36   | 690.73   | 993.33   | 889.03   |  |
| G30     | 771.14   | 933.37   | 1029.6   | 740.63   | 816.13   | 635.77   | 586.66   | 870.06   | 771.14   |  |
| G31     | 665.54   | 814.5    | 905.26   | 634.33   | 707.88   | 539.73   | 492.14   | 751.48   | 665.54   |  |
| G32     | 565.6    | 704.82   | 788.76   | 537.5    | 603.59   | 449.43   | 406.25   | 647.41   | 565.6    |  |
| G33     | 472.94   | 601.08   | 675.65   | 446.28   | 512.5    | 375.46   | 336.04   | 547.38   | 472.94   |  |
| G34     | 388.21   | 509.07   | 576.13   | 370.36   | 427.49   | 311.51   | 280.2    | 455.32   | 388.21   |  |
| G35     | 321.02   | 419.61   | 480.46   | 309.24   | 357.7    | 262.49   | 231.56   | 380.7    | 321.02   |  |
| G36     | 257.71   | 347.73   | 398.42   | 253.45   | 298.99   | 218.52   | 194.27   | 317.82   | 257.71   |  |

C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

Report No.:

Test Time: 2024/9/18 17:58:13

## LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

| Gamma\C | C0     | C45    | C90    | C135   | C180   | C225   | C270   | C315   | C360   |  |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| G37     | 204.94 | 286.93 | 331.22 | 211.66 | 249.13 | 184.67 | 162.83 | 267.31 | 204.94 |  |
| G38     | 161.25 | 237.17 | 278.58 | 175.21 | 208.65 | 157.96 | 138.53 | 224.23 | 161.25 |  |
| G39     | 129.11 | 196.5  | 232.67 | 148.08 | 177.3  | 134.95 | 118.07 | 192.23 | 129.11 |  |
| G40     | 105.41 | 163.1  | 195.89 | 124.47 | 151.74 | 118.72 | 103.6  | 163.99 | 105.41 |  |
| G41     | 89.09  | 137.6  | 167.93 | 108.71 | 130.73 | 106.2  | 90.2   | 142.19 | 89.09  |  |
| G42     | 78.7   | 117.56 | 146.59 | 95.35  | 115.29 | 97.81  | 81.44  | 124.89 | 78.7   |  |
| G43     | 73.41  | 101.47 | 125.08 | 87.09  | 103.84 | 89.46  | 74.71  | 112.04 | 73.41  |  |
| G44     | 68.54  | 91.13  | 108.66 | 80.14  | 94.0   | 85.75  | 69.89  | 100.73 | 68.54  |  |
| G45     | 65.34  | 83.06  | 97.25  | 75.27  | 87.37  | 80.88  | 66.46  | 92.71  | 65.34  |  |
| G46     | 61.68  | 76.89  | 89.0   | 70.72  | 82.83  | 78.38  | 64.18  | 86.49  | 61.68  |  |
| G47     | 59.59  | 72.72  | 82.73  | 69.05  | 78.75  | 75.45  | 61.36  | 82.78  | 59.59  |  |
| G48     | 56.58  | 68.96  | 78.05  | 66.13  | 75.13  | 72.53  | 58.94  | 77.36  | 56.58  |  |
| G49     | 54.96  | 66.13  | 73.92  | 63.26  | 71.23  | 68.96  | 56.72  | 73.46  | 54.96  |  |
| G50     | 52.17  | 64.23  | 70.91  | 61.03  | 68.4   | 67.57  | 55.37  | 70.58  | 52.17  |  |
| G51     | 49.76  | 60.85  | 68.4   | 60.15  | 66.04  | 65.11  | 52.13  | 67.76  | 49.76  |  |
| G52     | 46.38  | 58.9   | 65.53  | 57.41  | 63.54  | 62.61  | 49.85  | 65.16  | 46.38  |  |
| G53     | 44.66  | 56.53  | 62.42  | 56.76  | 60.98  | 60.66  | 48.18  | 61.91  | 44.66  |  |
| G54     | 41.27  | 53.7   | 60.75  | 53.52  | 57.92  | 59.04  | 46.38  | 60.29  | 41.27  |  |
| G55     | 39.7   | 50.87  | 57.41  | 52.54  | 55.51  | 57.04  | 43.41  | 57.83  | 39.7   |  |
| G56     | 36.08  | 48.69  | 54.91  | 49.62  | 53.24  | 53.89  | 41.51  | 54.4   | 36.08  |  |
| G57     | 33.21  | 46.01  | 53.01  | 48.14  | 50.78  | 51.38  | 39.37  | 52.17  | 33.21  |  |
| G58     | 30.28  | 44.38  | 50.74  | 45.17  | 47.21  | 50.46  | 37.47  | 48.88  | 30.28  |  |
| G59     | 26.9   | 41.83  | 48.97  | 43.45  | 44.8   | 47.16  | 34.64  | 46.1   | 26.9   |  |
| G60     | 23.56  | 40.25  | 45.45  | 40.72  | 41.6   | 43.83  | 32.19  | 43.27  | 23.56  |  |
| G61     | 20.45  | 35.66  | 43.18  | 39.0   | 37.84  | 41.51  | 29.08  | 41.09  | 20.45  |  |
| G62     | 16.97  | 33.58  | 41.18  | 36.31  | 35.06  | 39.98  | 26.9   | 37.38  | 16.97  |  |
| G63     | 12.34  | 30.01  | 37.66  | 33.25  | 31.77  | 35.94  | 23.14  | 34.6   | 12.34  |  |
| G64     | 8.07   | 27.87  | 35.29  | 29.77  | 27.73  | 31.49  | 19.76  | 31.3   | 8.07   |  |
| G65     | 6.12   | 24.16  | 32.05  | 26.85  | 23.37  | 28.99  | 17.81  | 28.24  | 6.12   |  |
| G66     | 2.6    | 21.38  | 29.17  | 23.28  | 18.46  | 25.09  | 15.35  | 24.3   | 2.6    |  |
| G67     | 0.93   | 17.34  | 25.55  | 21.29  | 15.68  | 21.43  | 13.4   | 21.33  | 0.93   |  |
| G68     | 0.0    | 14.33  | 22.72  | 17.72  | 11.97  | 17.58  | 11.41  | 17.99  | 0.0    |  |
| G69     | 0.0    | 10.76  | 20.59  | 13.87  | 9.37   | 14.28  | 10.02  | 14.19  | 0.0    |  |
| G70     | 0.0    | 7.47   | 19.06  | 9.83   | 6.86   | 12.2   | 8.35   | 9.83   | 0.0    |  |
| G71     | 0.0    | 4.87   | 16.32  | 6.31   | 4.82   | 8.07   | 5.75   | 7.74   | 0.0    |  |
| G72     | 0.0    | 2.23   | 14.52  | 3.43   | 3.06   | 5.05   | 3.8    | 4.41   | 0.0    |  |
| G73     | 0.0    | 0.0    | 12.71  | 1.25   | 1.58   | 2.88   | 2.64   | 2.32   | 0.0    |  |

C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/9/18 17:58:13

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

Test Time: 2024/9/18 17:58:13

Remarks: