

Report No.:

Test Time: 2024/10/8 14:46:50

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer: InBright  
Luminaire Type: IBSP104SCT095H98-3F-15°  
Lamp Type:  
Luminous Width: 90 mm  
Luminous Length: 280 mm  
Luminous Height: 70 mm

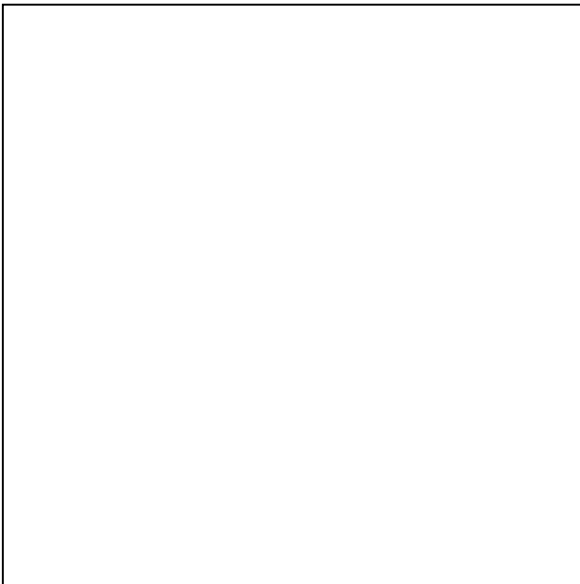
Voltage(V): 219.90 V  
Current(A): 0.2060 A  
Power(W): 42.90 W  
Power Factor: 0.9460  
Lamp Luminous Flux: 3939.69

### Photometric Results

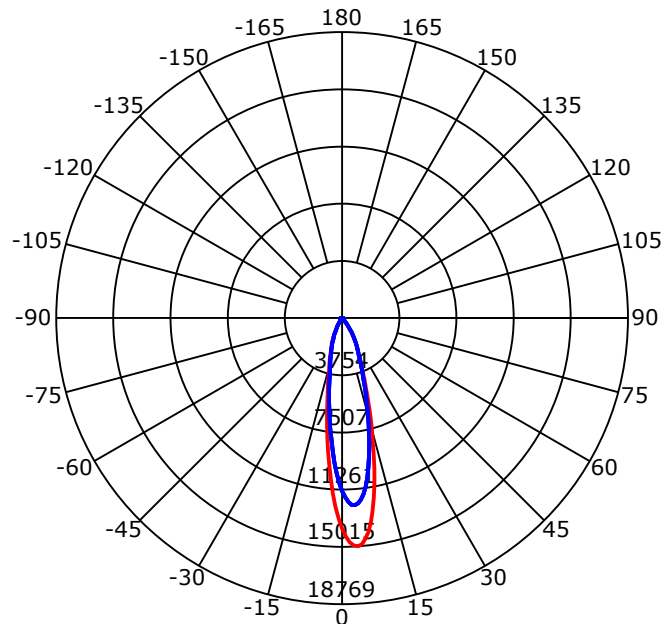
CIE Class: Direct  
Luminaire Luminous Flux: 3939.687 lm  
Downward Ratio: 100.00%  
Luminaire Efficacy Rating(LER): 91.83 lm/W  
Beam Angle(50%) C0-180,C90-270: 22.5,23.5  
Field Angle(10%) C0-180,C90-270: 55.0,57.6  
S/MH C0-180,C90-270: 0.425,0.389

Max. Intensity: 15014.82 cd  
Max.Intensity Angle: C=0 Gamma=4  
Upward Ratio: 0.00%  
Efficacy: 100.00%  
Center Intensity: 13812.05 cd  
Effective Luminous Flux: 3209.70 lm  
ERP( $\phi$ use)(120deg): 3893.00 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.5 deg,23.5 deg

C0-180 — C90-270 —

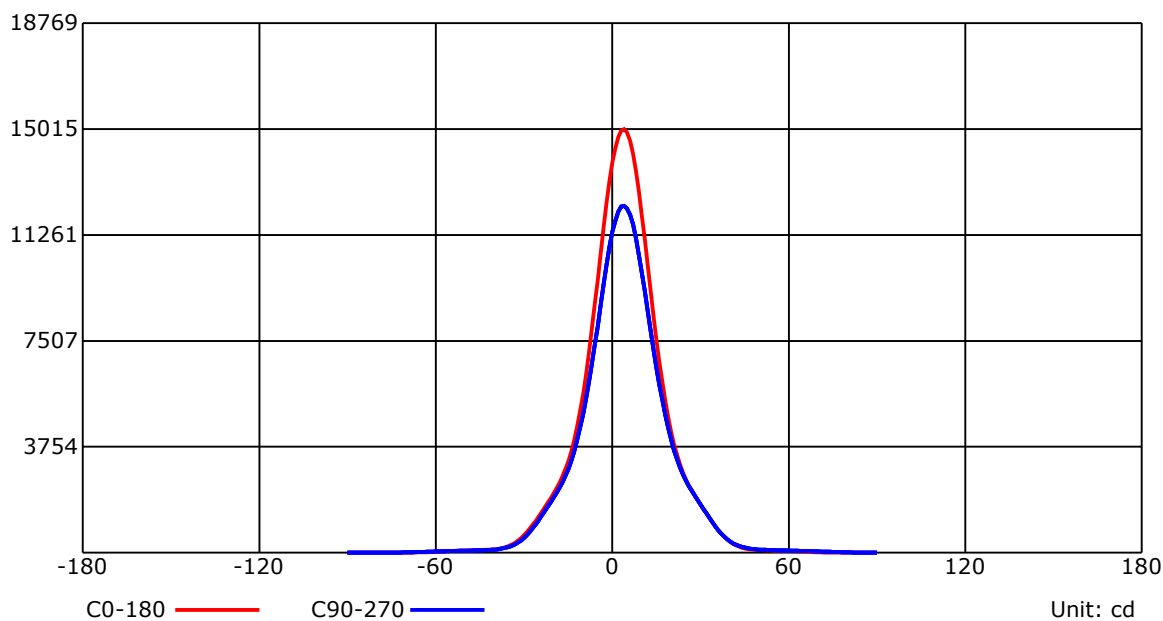
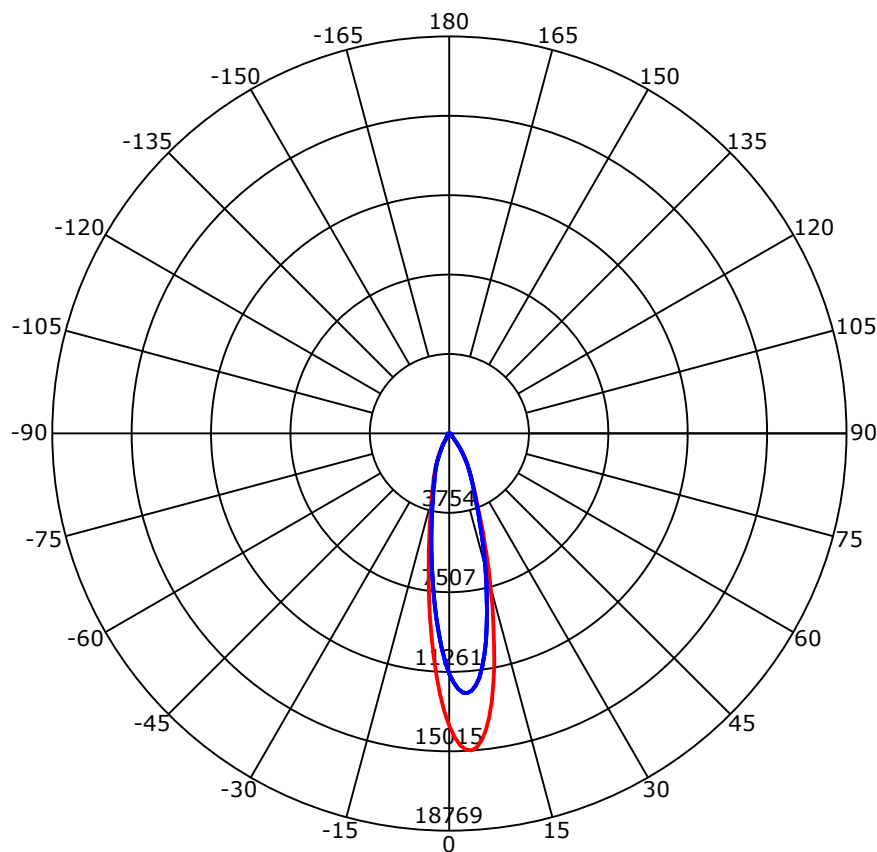
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

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



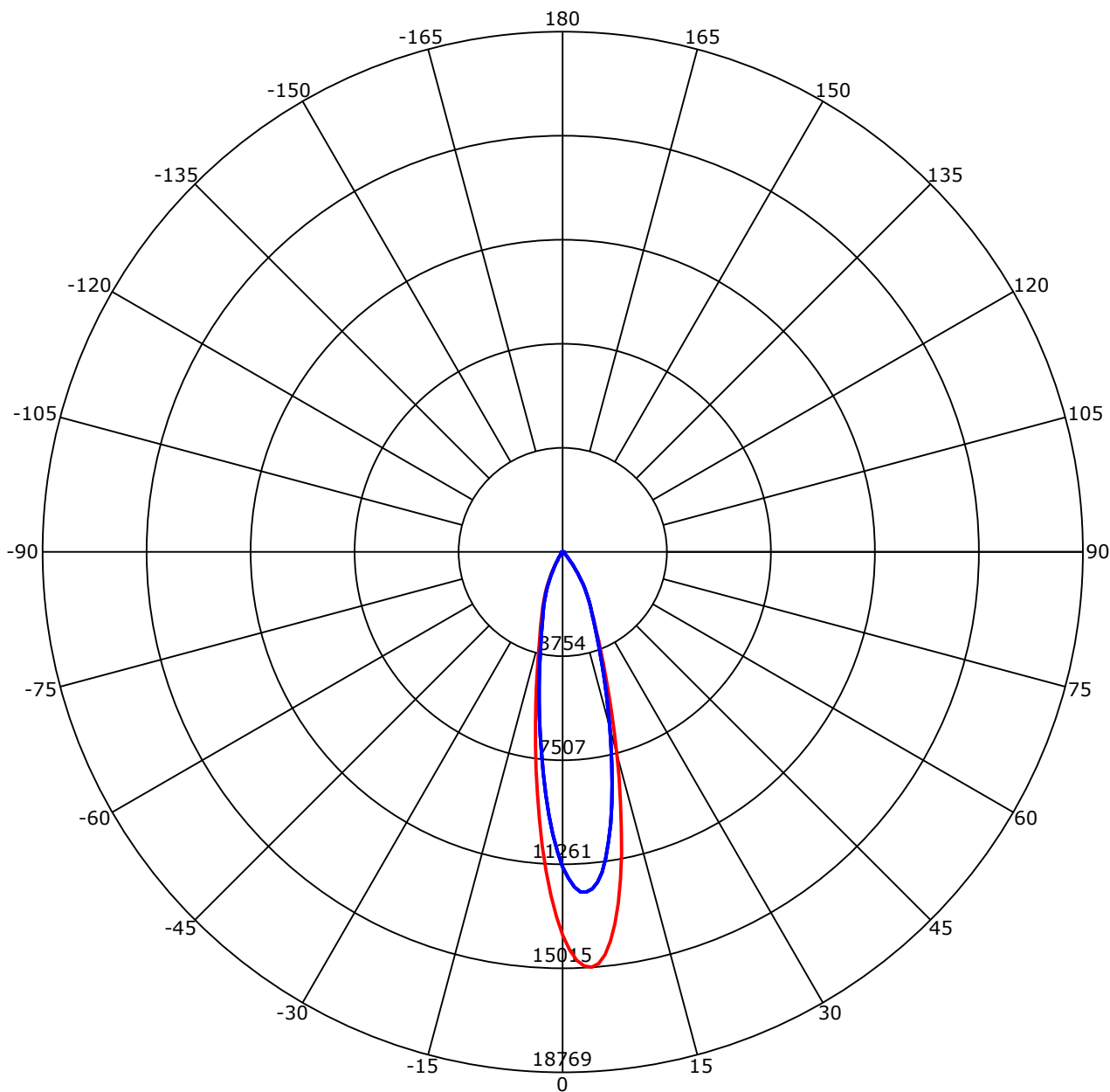
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C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
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Remarks:

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## Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

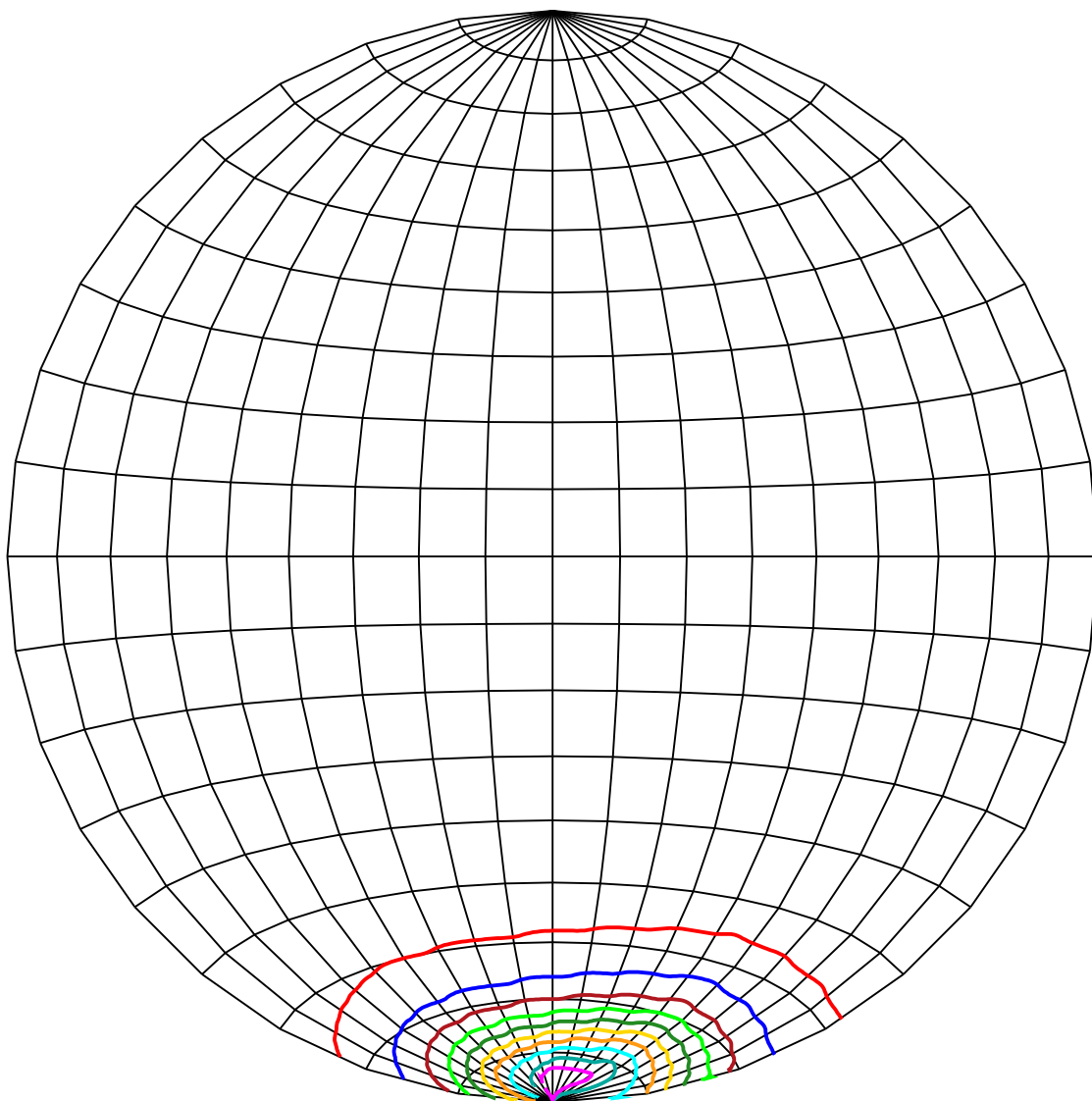
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
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Humidity: 60  
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## ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd    I<sub>max</sub>(100%): 15014.82 cd

|                                |                                |
|--------------------------------|--------------------------------|
| 14264.08(95%I <sub>max</sub> ) | 7507.409(50%I <sub>max</sub> ) |
| 13513.34(90%I <sub>max</sub> ) | 6005.927(40%I <sub>max</sub> ) |
| 12011.85(80%I <sub>max</sub> ) | 4504.446(30%I <sub>max</sub> ) |
| 10510.37(70%I <sub>max</sub> ) | 3002.964(20%I <sub>max</sub> ) |
| 9008.892(60%I <sub>max</sub> ) | 1501.482(10%I <sub>max</sub> ) |

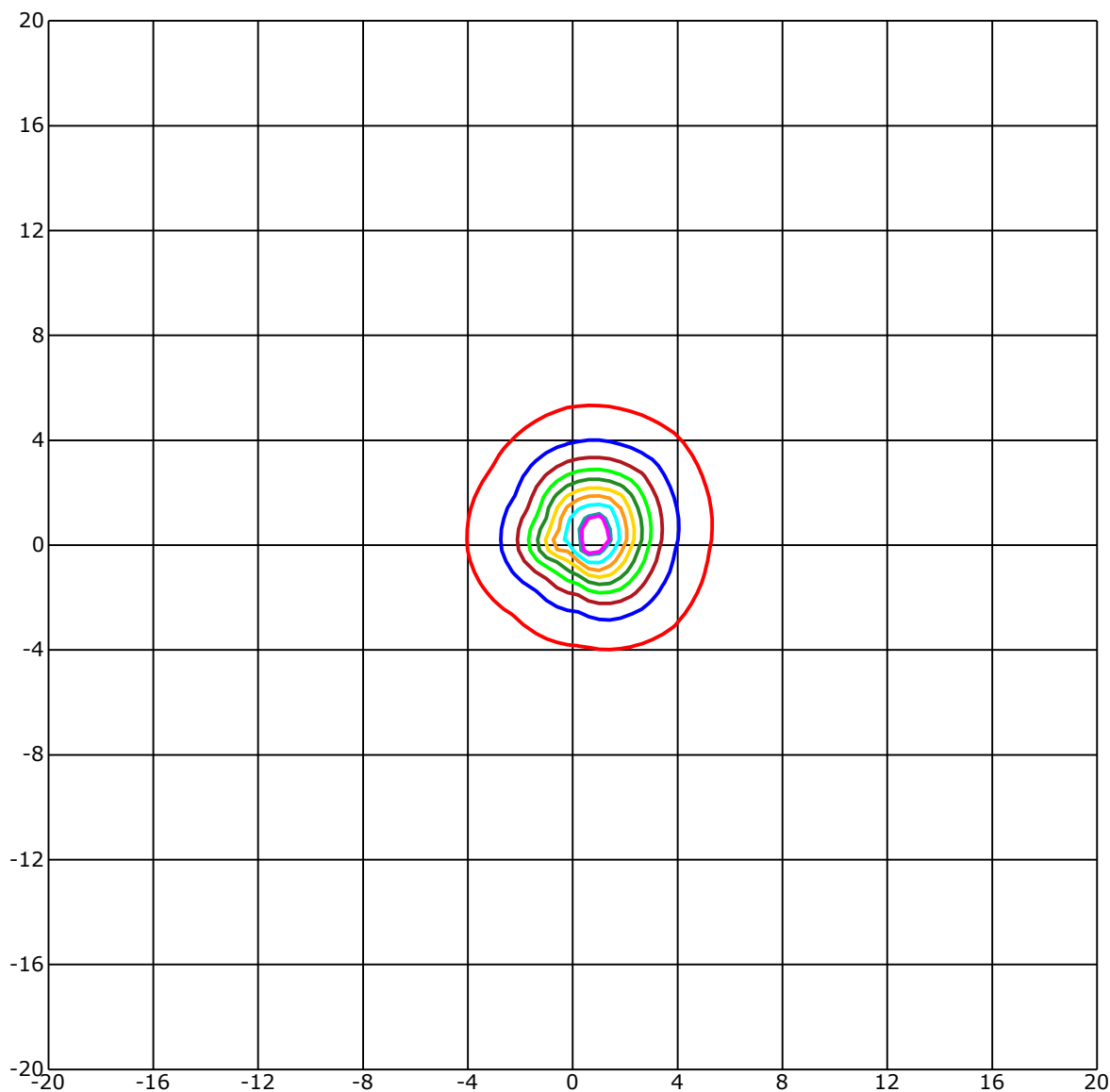
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
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Test Distance: 6.81 m  
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## ISOLX DIAGRAM



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

|                  |                 |
|------------------|-----------------|
| 137.129(92%Emax) | 74.527(50%Emax) |
| 134.148(90%Emax) | 59.621(40%Emax) |
| 119.243(80%Emax) | 44.716(30%Emax) |
| 104.338(70%Emax) | 29.811(20%Emax) |
| 89.432(60%Emax)  | 14.905(10%Emax) |

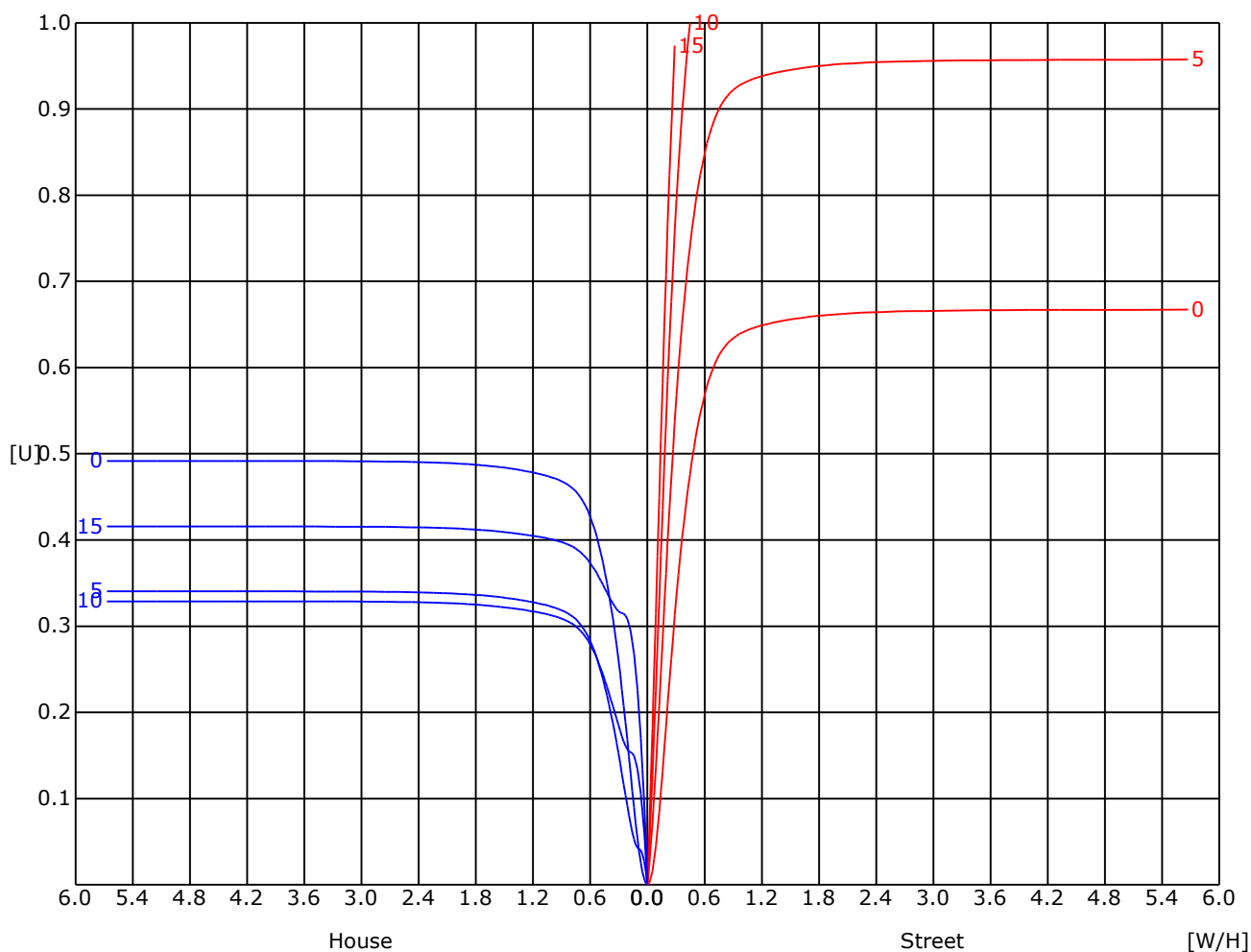
C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

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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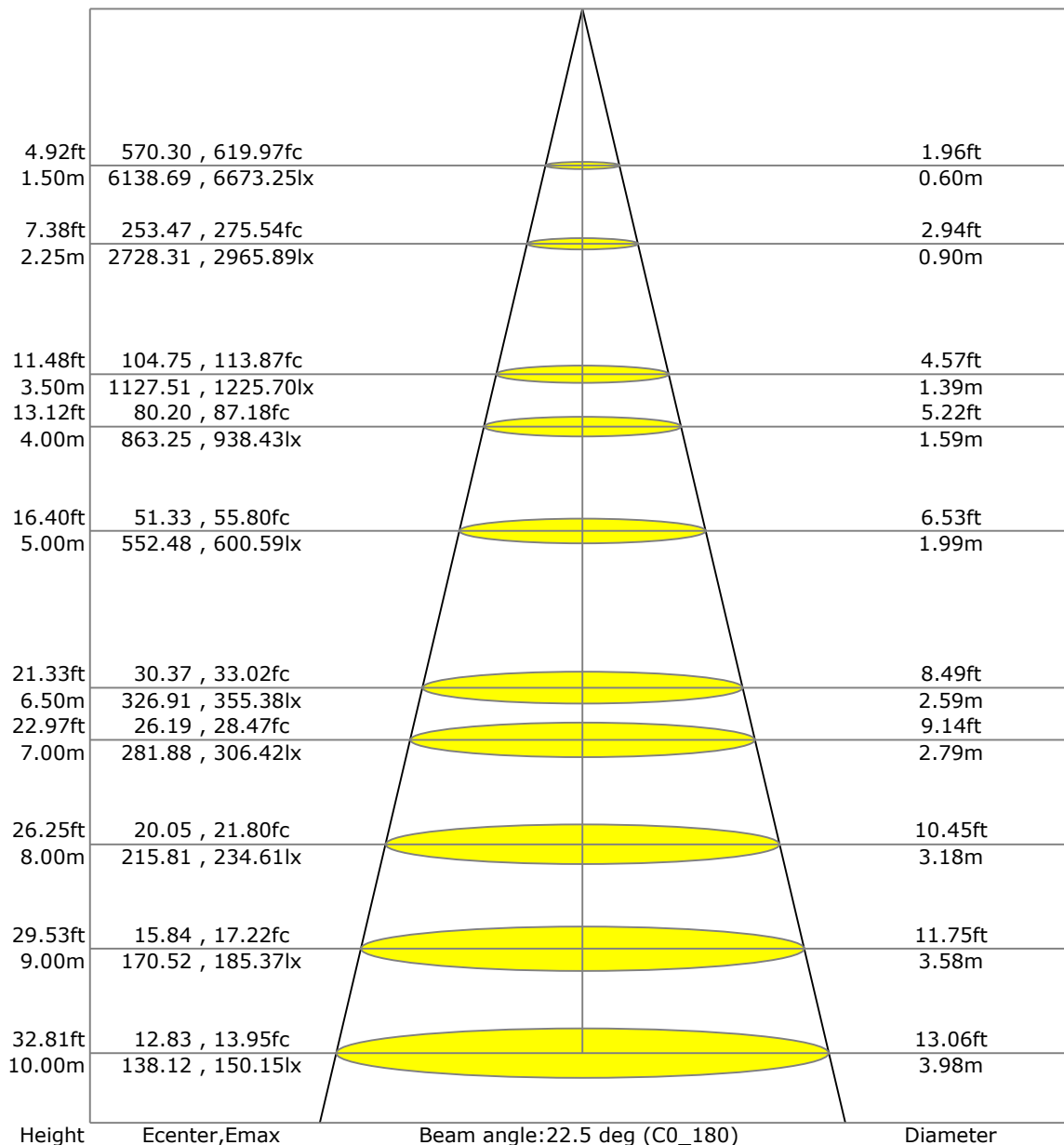
## UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

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

## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg  
C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

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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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            | 11.16          | 11.21 | 11.36 | 11.40 | 11.64 | 11.20            | 11.26 | 11.40 | 11.44 | 11.69 |
| 3H               | 11.15          | 11.21 | 11.36 | 11.40 | 11.65 | 11.19            | 11.25 | 11.40 | 11.44 | 11.69 |
| 4H               | 11.14          | 11.20 | 11.35 | 11.40 | 11.65 | 11.18            | 11.24 | 11.39 | 11.43 | 11.68 |
| 6H               | 11.13          | 11.19 | 11.34 | 11.39 | 11.64 | 11.16            | 11.22 | 11.38 | 11.42 | 11.67 |
| 8H               | 11.12          | 11.18 | 11.34 | 11.38 | 11.63 | 11.15            | 11.21 | 11.37 | 11.41 | 11.67 |
| 12H              | 11.11          | 11.17 | 11.33 | 11.37 | 11.63 | 11.14            | 11.20 | 11.37 | 11.41 | 11.66 |
| 4H 2H            | 11.27          | 11.33 | 11.48 | 11.53 | 11.78 | 11.50            | 11.56 | 11.71 | 11.75 | 12.00 |
| 3H               | 11.30          | 11.35 | 11.52 | 11.56 | 11.81 | 11.52            | 11.57 | 11.74 | 11.78 | 12.04 |
| 4H               | 11.28          | 11.34 | 11.51 | 11.55 | 11.81 | 11.50            | 11.56 | 11.73 | 11.77 | 12.03 |
| 6H               | 11.26          | 11.32 | 11.50 | 11.54 | 11.81 | 11.48            | 11.54 | 11.72 | 11.76 | 12.02 |
| 8H               | 11.25          | 11.31 | 11.49 | 11.53 | 11.80 | 11.47            | 11.52 | 11.71 | 11.75 | 12.02 |
| 12H              | 11.24          | 11.29 | 11.49 | 11.52 | 11.79 | 11.45            | 11.51 | 11.70 | 11.74 | 12.01 |
| 8H 4H            | 11.25          | 11.31 | 11.47 | 11.51 | 11.76 | 11.52            | 11.58 | 11.74 | 11.78 | 12.03 |
| 6H               | 11.23          | 11.28 | 11.48 | 11.52 | 11.79 | 11.49            | 11.54 | 11.75 | 11.78 | 12.06 |
| 8H               | 11.21          | 11.26 | 11.47 | 11.51 | 11.79 | 11.48            | 11.53 | 11.74 | 11.77 | 12.05 |
| 12H              | 11.19          | 11.24 | 11.46 | 11.50 | 11.78 | 11.46            | 11.51 | 11.73 | 11.76 | 12.04 |
| 12H 4H           | 11.24          | 11.29 | 11.49 | 11.53 | 11.80 | 11.51            | 11.56 | 11.76 | 11.80 | 12.07 |
| 6H               | 11.21          | 11.26 | 11.47 | 11.51 | 11.78 | 11.48            | 11.53 | 11.74 | 11.78 | 12.06 |

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C Interval: 45.0 Deg  
Test Speed: High  
Temperature: 25  
Operators: QC01  
Test Date: 2024/10/8 14:46:50

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

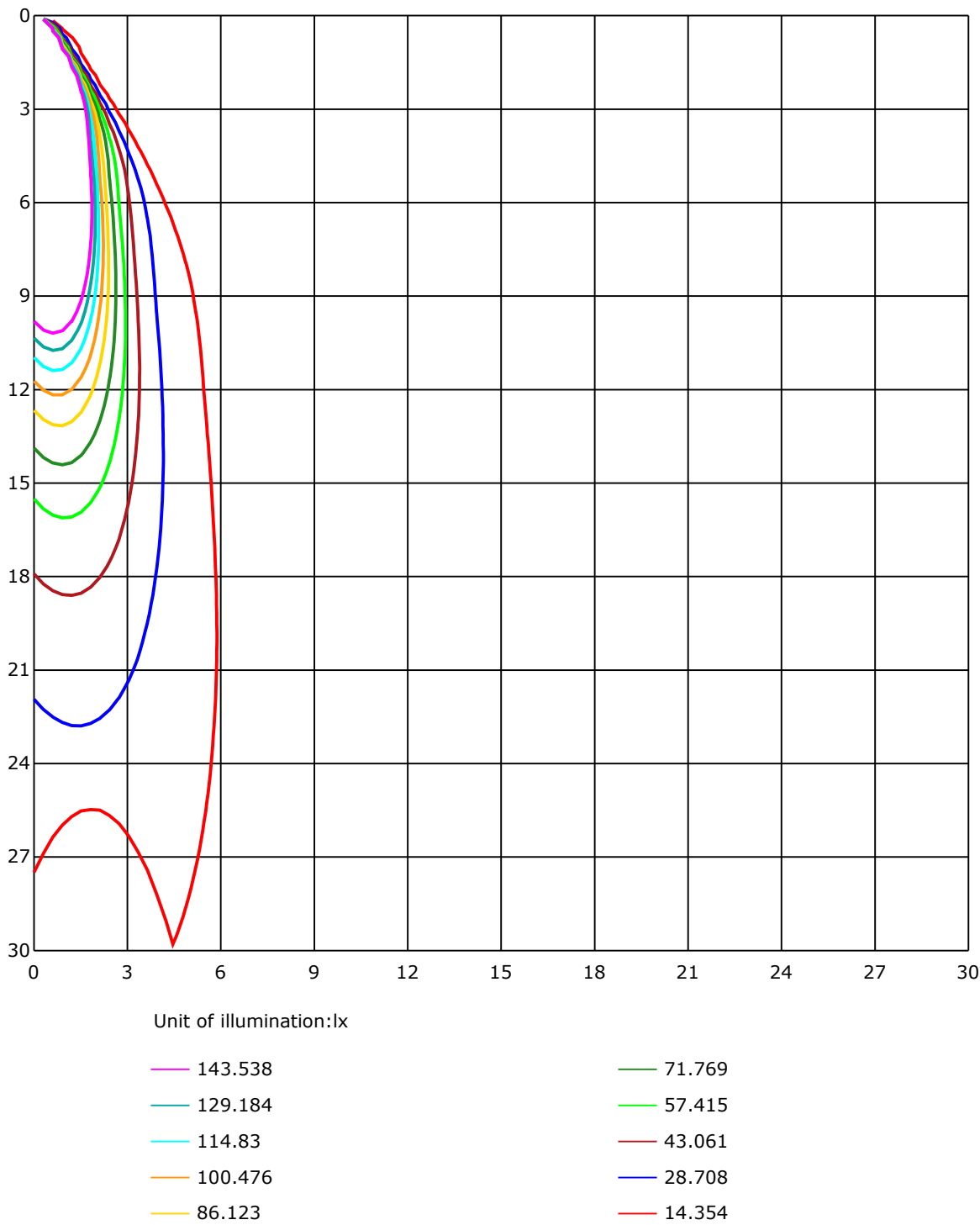


G Range: 0 - 90 Deg  
G Interval: 1.0 Deg  
Test System: Huipu CPM-1600B Goniophotometer  
Humidity: 60  
Test Distance: 6.81 m  
Remarks:

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SPACE ISOLX DIAGRAM



Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

| Gamma\C | C0       | C45      | C90      | C135     | C180     | C225     | C270     | C315     | C360     |  |
|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| G0      | 13812.05 | 11338.4  | 11358.71 | 12591.02 | 13812.05 | 11338.4  | 11358.71 | 12591.02 | 13812.05 |  |
| G1      | 14349.97 | 12144.97 | 11767.01 | 12143.3  | 13148.55 | 10525.98 | 10816.53 | 12831.71 | 14349.97 |  |
| G2      | 14736.51 | 12805.97 | 12084.04 | 11634.0  | 12378.48 | 9639.46  | 10185.81 | 12985.45 | 14736.51 |  |
| G3      | 14958.42 | 13372.5  | 12273.57 | 11032.69 | 11525.71 | 8743.47  | 9497.92  | 12983.41 | 14958.42 |  |
| G4      | 15014.82 | 13786.64 | 12294.95 | 10328.98 | 10617.34 | 7887.0   | 8784.01  | 12827.49 | 15014.82 |  |
| G5      | 14901.29 | 14090.59 | 12197.42 | 9600.18  | 9676.23  | 7085.48  | 8022.09  | 12532.44 | 14901.29 |  |
| G6      | 14595.16 | 14244.88 | 11969.63 | 8860.8   | 8770.0   | 6311.93  | 7329.79  | 12073.42 | 14595.16 |  |
| G7      | 14143.55 | 14227.91 | 11644.11 | 8086.14  | 7907.87  | 5644.62  | 6660.07  | 11498.63 | 14143.55 |  |
| G8      | 13537.88 | 14047.69 | 11156.65 | 7358.08  | 7056.36  | 5026.94  | 6025.14  | 10853.54 | 13537.88 |  |
| G9      | 12833.01 | 13709.8  | 10571.76 | 6663.18  | 6275.75  | 4467.64  | 5434.31  | 10101.6  | 12833.01 |  |
| G10     | 11984.7  | 13228.64 | 9950.32  | 6022.82  | 5601.07  | 3987.37  | 4894.26  | 9356.89  | 11984.7  |  |
| G11     | 11106.15 | 12643.05 | 9262.19  | 5425.73  | 4983.07  | 3575.04  | 4402.81  | 8583.2   | 11106.15 |  |
| G12     | 10182.43 | 11901.27 | 8563.16  | 4897.73  | 4445.61  | 3217.53  | 3976.47  | 7861.03  | 10182.43 |  |
| G13     | 9280.41  | 11147.14 | 7865.06  | 4416.67  | 3979.58  | 2927.35  | 3581.53  | 7132.23  | 9280.41  |  |
| G14     | 8383.45  | 10317.15 | 7195.9   | 4000.22  | 3576.43  | 2665.51  | 3244.05  | 6475.45  | 8383.45  |  |
| G15     | 7542.61  | 9503.67  | 6554.33  | 3627.63  | 3233.34  | 2450.37  | 2955.5   | 5841.02  | 7542.61  |  |
| G16     | 6763.68  | 8663.01  | 5954.88  | 3297.85  | 2945.16  | 2251.61  | 2699.97  | 5259.33  | 6763.68  |  |
| G17     | 6027.36  | 7888.06  | 5390.16  | 3013.52  | 2694.5   | 2079.6   | 2478.29  | 4737.55  | 6027.36  |  |
| G18     | 5373.23  | 7143.45  | 4875.71  | 2775.98  | 2470.87  | 1917.1   | 2293.86  | 4247.45  | 5373.23  |  |
| G19     | 4794.27  | 6428.84  | 4414.26  | 2546.79  | 2281.47  | 1760.16  | 2114.75  | 3827.56  | 4794.27  |  |
| G20     | 4285.24  | 5772.16  | 4004.16  | 2351.04  | 2098.47  | 1606.75  | 1953.55  | 3458.22  | 4285.24  |  |
| G21     | 3837.72  | 5194.91  | 3617.75  | 2174.58  | 1933.37  | 1455.42  | 1788.03  | 3136.05  | 3837.72  |  |
| G22     | 3447.55  | 4652.73  | 3296.97  | 2004.56  | 1766.7   | 1304.14  | 1630.45  | 2860.52  | 3447.55  |  |
| G23     | 3122.46  | 4197.04  | 3009.81  | 1839.55  | 1608.37  | 1155.0   | 1470.96  | 2621.41  | 3122.46  |  |
| G24     | 2842.95  | 3780.16  | 2768.98  | 1678.82  | 1448.42  | 1011.83  | 1318.47  | 2417.77  | 2842.95  |  |
| G25     | 2606.57  | 3436.98  | 2552.26  | 1518.4   | 1293.06  | 875.49   | 1164.04  | 2231.29  | 2606.57  |  |
| G26     | 2391.01  | 3124.82  | 2364.16  | 1355.71  | 1141.87  | 749.39   | 1014.71  | 2063.55  | 2391.01  |  |
| G27     | 2211.31  | 2854.5   | 2182.6   | 1196.5   | 997.6    | 632.01   | 875.49   | 1890.57  | 2211.31  |  |
| G28     | 2028.86  | 2616.17  | 2022.93  | 1049.63  | 861.34   | 528.27   | 745.4    | 1729.64  | 2028.86  |  |
| G29     | 1861.54  | 2409.98  | 1862.84  | 906.56   | 736.73   | 436.58   | 625.15   | 1567.23  | 1861.54  |  |
| G30     | 1705.9   | 2218.49  | 1706.87  | 773.32   | 621.58   | 360.2    | 525.39   | 1402.23  | 1705.9   |  |
| G31     | 1549.05  | 2038.37  | 1549.52  | 652.28   | 523.59   | 301.03   | 433.34   | 1241.91  | 1549.05  |  |
| G32     | 1391.01  | 1862.0   | 1390.45  | 548.35   | 433.8    | 252.33   | 360.99   | 1089.98  | 1391.01  |  |
| G33     | 1235.04  | 1694.49  | 1232.63  | 454.44   | 359.97   | 213.42   | 300.56   | 937.82   | 1235.04  |  |
| G34     | 1080.56  | 1530.32  | 1079.36  | 378.34   | 302.05   | 184.44   | 252.56   | 801.29   | 1080.56  |  |
| G35     | 935.92   | 1373.34  | 934.57   | 317.63   | 252.1    | 161.9    | 212.87   | 678.71   | 935.92   |  |
| G36     | 800.59   | 1218.07  | 801.89   | 267.45   | 209.57   | 144.32   | 182.4    | 569.73   | 800.59   |  |

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C Interval: 45.0 Deg  
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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 DISTRIBUTION INTENSITY DATA(Continue 1)

| Gamma\C | C0     | C45    | C90    | C135   | C180   | C225   | C270   | C315   | C360   |  |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| G37     | 678.99 | 1064.1 | 678.71 | 227.61 | 176.28 | 132.45 | 157.17 | 473.64 | 678.99 |  |
| G38     | 567.46 | 923.72 | 574.79 | 197.05 | 150.44 | 121.6  | 137.27 | 393.18 | 567.46 |  |
| G39     | 472.06 | 787.37 | 479.2  | 168.39 | 133.38 | 114.97 | 120.86 | 327.18 | 472.06 |  |
| G40     | 384.83 | 664.89 | 399.95 | 149.61 | 120.62 | 109.54 | 110.51 | 275.89 | 384.83 |  |
| G41     | 316.93 | 558.69 | 335.3  | 133.75 | 112.42 | 104.72 | 100.78 | 232.85 | 316.93 |  |
| G42     | 261.84 | 466.36 | 285.4  | 123.13 | 106.53 | 101.61 | 96.04  | 201.23 | 261.84 |  |
| G43     | 218.11 | 385.01 | 242.69 | 112.93 | 101.84 | 97.62  | 91.08  | 174.65 | 218.11 |  |
| G44     | 177.44 | 317.44 | 208.74 | 106.34 | 96.37  | 93.63  | 87.93  | 154.15 | 177.44 |  |
| G45     | 149.89 | 265.18 | 179.85 | 99.85  | 92.66  | 91.82  | 85.15  | 138.43 | 149.89 |  |
| G46     | 127.35 | 221.03 | 158.56 | 95.77  | 89.04  | 88.02  | 82.5   | 127.72 | 127.35 |  |
| G47     | 112.74 | 188.01 | 139.73 | 91.64  | 86.07  | 85.1   | 81.07  | 118.44 | 112.74 |  |
| G48     | 103.93 | 163.71 | 127.02 | 87.98  | 83.2   | 82.41  | 76.8   | 112.09 | 103.93 |  |
| G49     | 97.34  | 142.7  | 117.84 | 84.73  | 79.58  | 79.54  | 75.18  | 106.29 | 97.34  |  |
| G50     | 92.71  | 127.72 | 109.91 | 82.46  | 75.96  | 76.15  | 72.25  | 102.35 | 92.71  |  |
| G51     | 88.58  | 116.54 | 104.07 | 79.49  | 74.06  | 72.86  | 69.15  | 99.24  | 88.58  |  |
| G52     | 84.91  | 108.57 | 100.5  | 76.98  | 69.24  | 68.73  | 66.46  | 96.14  | 84.91  |  |
| G53     | 80.97  | 102.49 | 95.21  | 74.25  | 65.95  | 65.48  | 64.97  | 93.26  | 80.97  |  |
| G54     | 78.14  | 96.65  | 92.89  | 71.65  | 62.1   | 62.14  | 62.47  | 91.27  | 78.14  |  |
| G55     | 75.27  | 94.33  | 89.09  | 67.71  | 57.92  | 58.67  | 58.94  | 87.33  | 75.27  |  |
| G56     | 71.84  | 89.88  | 86.45  | 65.34  | 53.43  | 53.61  | 56.76  | 85.75  | 71.84  |  |
| G57     | 68.87  | 87.79  | 83.71  | 61.82  | 49.11  | 49.95  | 53.01  | 81.76  | 68.87  |  |
| G58     | 65.9   | 84.17  | 82.04  | 58.29  | 44.01  | 45.82  | 50.04  | 79.95  | 65.9   |  |
| G59     | 61.22  | 82.6   | 77.59  | 55.47  | 39.84  | 41.04  | 47.03  | 76.34  | 61.22  |  |
| G60     | 58.57  | 78.47  | 75.59  | 51.8   | 33.16  | 35.8   | 43.87  | 73.04  | 58.57  |  |
| G61     | 54.91  | 75.92  | 72.35  | 48.51  | 27.08  | 31.49  | 39.37  | 69.84  | 54.91  |  |
| G62     | 50.5   | 72.39  | 69.89  | 44.89  | 21.47  | 26.16  | 36.96  | 66.46  | 50.5   |  |
| G63     | 46.19  | 69.75  | 67.01  | 40.02  | 18.27  | 21.56  | 33.53  | 62.33  | 46.19  |  |
| G64     | 41.46  | 66.27  | 65.02  | 36.41  | 15.16  | 16.23  | 30.52  | 59.36  | 41.46  |  |
| G65     | 36.73  | 63.4   | 62.19  | 31.26  | 12.29  | 13.03  | 27.73  | 54.4   | 36.73  |  |
| G66     | 30.24  | 59.59  | 58.94  | 27.73  | 9.55   | 9.09   | 25.41  | 50.46  | 30.24  |  |
| G67     | 26.16  | 57.27  | 54.96  | 22.21  | 6.77   | 6.63   | 21.7   | 46.19  | 26.16  |  |
| G68     | 21.15  | 53.29  | 51.8   | 18.09  | 3.94   | 3.9    | 19.06  | 40.63  | 21.15  |  |
| G69     | 16.0   | 49.53  | 47.67  | 13.4   | 1.39   | 1.34   | 16.05  | 35.57  | 16.0   |  |
| G70     | 11.59  | 45.4   | 44.24  | 10.62  | 0.0    | 0.0    | 13.54  | 30.84  | 11.59  |  |
| G71     | 9.28   | 42.16  | 41.18  | 5.38   | 0.0    | 0.0    | 9.09   | 25.74  | 9.28   |  |
| G72     | 5.7    | 37.15  | 38.68  | 3.85   | 0.0    | 0.0    | 5.61   | 20.68  | 5.7    |  |
| G73     | 3.15   | 31.72  | 35.62  | 0.09   | 0.0    | 0.0    | 3.94   | 15.72  | 3.15   |  |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/8 14:46:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

