

# HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

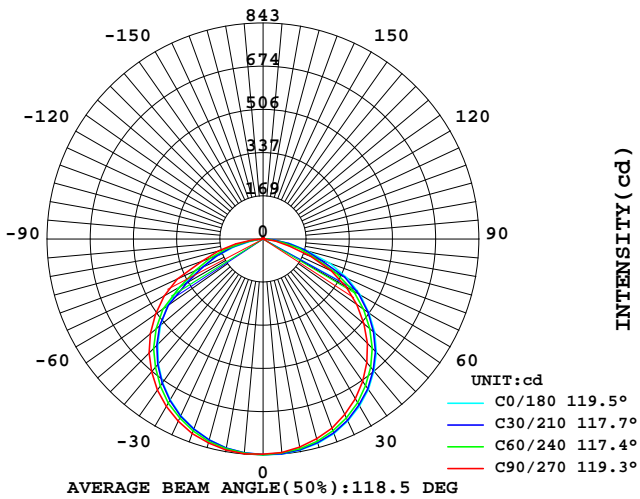
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

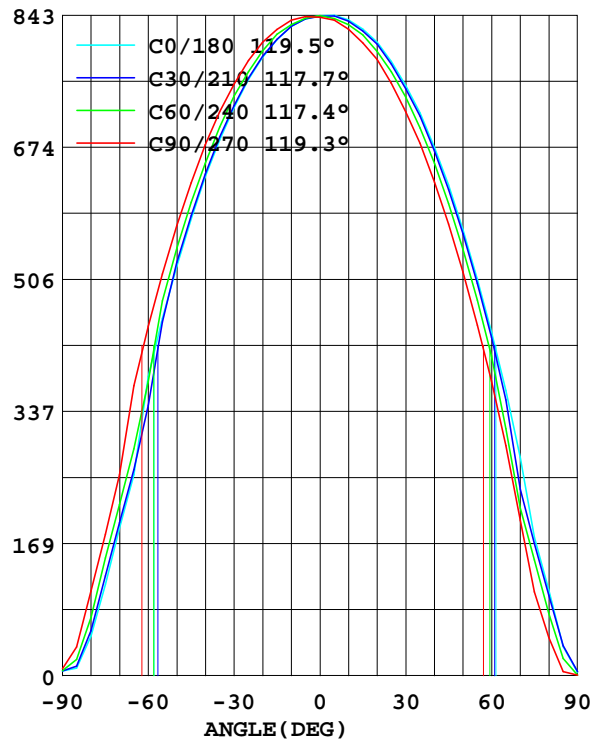
|                 |            |             |  |
|-----------------|------------|-------------|--|
| MANUFACTURER:   | Address:   |             |  |
| NAME: 20W-6500K | TYPE:      | WEIGHT:     |  |
| SPECIFICATION:  | DIMENSION: | SERIAL No.: |  |

|                  |        |                       |        |                  |       |
|------------------|--------|-----------------------|--------|------------------|-------|
| DATA OF LAMP     |        | I <sub>max</sub> (cd) | 842.9  | S/MH(C0/180)     | 1.28  |
| MODEL            |        | EFFICIENCY(%)         | 100.0  | S/MH(C90/270)    | 1.33  |
| NOMINAL POWER(W) | 20     | TOTAL FLUX(lm)        | 2528.2 | Voltage(V)       | 229.8 |
| RATED VOLTAGE(V) | 230    | EFFICIENCY(lm/W)      | 118.3  | Current(A)       | 0.103 |
| NOMINAL FLUX(lm) | 2528.3 | η up(%)               | 1.0    | Power(W)         | 21.37 |
| LAMPS QUANTITY   | 1      | η down(%)             | 99.0   | Power Factor(PF) | 0.896 |
| TEST VOLTAGE(V)  | 229.9  | Effective Flux(lm)    | 2463.9 | EEI              | 0.118 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2026年03月18日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.150 m  
 Remarks:

Color Temperature Data List

Report number:

|                 |            |             |
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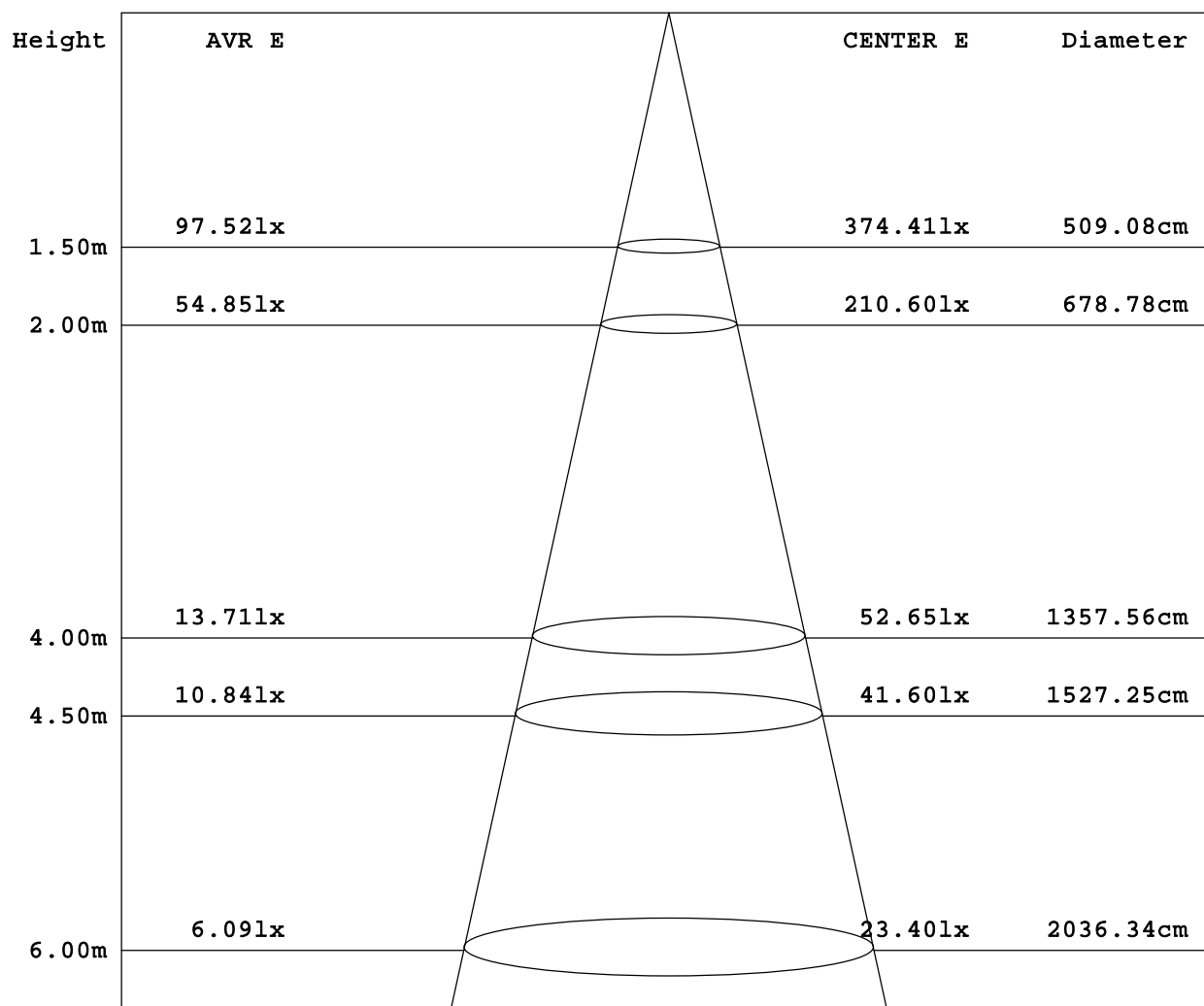
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AVERAGE AND CENTER E Figure

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Angle:119.0deg

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ZONAL FLUX DIAGRAM

Report number:

|                 |            |             |
|-----------------|------------|-------------|
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| NAME: 20W-6500K | TYPE:      | WEIGHT:     |
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| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | zone    | total |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------|-------|
| 10.0     | 828.7                 | 825.5 | 836.3 | 838.1 | 836.8 | 835.0 | 825.2 | 820.7 | 0- 10    | 79.79   | 79.79 |
| 20.0     | 789.0                 | 786.4 | 808.1 | 812.0 | 808.4 | 806.6 | 786.1 | 777.1 | 10- 20   | 230.6   | 310.3 |
| 30.0     | 725.0                 | 722.8 | 754.8 | 762.2 | 753.2 | 753.9 | 719.5 | 708.2 | 20- 30   | 354.9   | 665.3 |
| 40.0     | 636.5                 | 631.6 | 677.3 | 686.5 | 673.7 | 674.5 | 629.7 | 614.1 | 30- 40   | 436.7   | 1102  |
| 50.0     | 522.2                 | 516.5 | 574.1 | 584.8 | 569.0 | 570.5 | 515.0 | 495.3 | 40- 50   | 463.3   | 1566  |
| 60.0     | 381.6                 | 339.9 | 445.8 | 459.0 | 438.7 | 439.0 | 375.9 | 351.2 | 50- 60   | 425.1   | 1991  |
| 70.0     | 188.0                 | 185.7 | 256.3 | 306.0 | 278.6 | 245.4 | 198.5 | 168.1 | 60- 70   | 313.5   | 2304  |
| 80.0     | 50.40                 | 51.48 | 107.9 | 130.1 | 109.2 | 108.0 | 48.81 | 28.13 | 70- 80   | 162.0   | 2466  |
| 90.0     | 6.028                 | 0.754 | 8.623 | 6.028 | 4.186 | 10.38 | 0.754 | 5.776 | 80- 90   | 37.70   | 2504  |
| 100.0    | 5.274                 | 1.255 | 5.441 | 1.004 | 1.172 | 5.358 | 1.088 | 5.107 | 90-100   | 4.267   | 2508  |
| 110.0    | 5.107                 | 1.758 | 5.107 | 1.507 | 1.758 | 4.855 | 1.758 | 4.939 | 100-110  | 3.452   | 2512  |
| 120.0    | 5.107                 | 2.427 | 5.023 | 2.093 | 2.344 | 4.855 | 2.344 | 5.023 | 110-120  | 3.454   | 2515  |
| 130.0    | 5.190                 | 2.930 | 5.023 | 2.679 | 2.930 | 4.855 | 2.930 | 5.023 | 120-130  | 3.394   | 2519  |
| 140.0    | 5.190                 | 3.348 | 5.107 | 3.265 | 3.516 | 5.023 | 3.348 | 5.107 | 130-140  | 3.150   | 2522  |
| 150.0    | 5.274                 | 3.767 | 5.107 | 3.600 | 3.851 | 5.023 | 3.600 | 5.107 | 140-150  | 2.704   | 2524  |
| 160.0    | 5.190                 | 4.018 | 5.190 | 3.851 | 4.269 | 5.107 | 4.018 | 5.107 | 150-160  | 2.069   | 2527  |
| 170.0    | 5.190                 | 4.186 | 5.107 | 4.186 | 4.604 | 5.107 | 4.186 | 5.190 | 160-170  | 1.308   | 2528  |
| 180.0    | 5.023                 | 4.437 | 5.023 | 4.521 | 5.107 | 5.023 | 4.521 | 5.023 | 170-180  | 0.450   | 2528  |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm |       |

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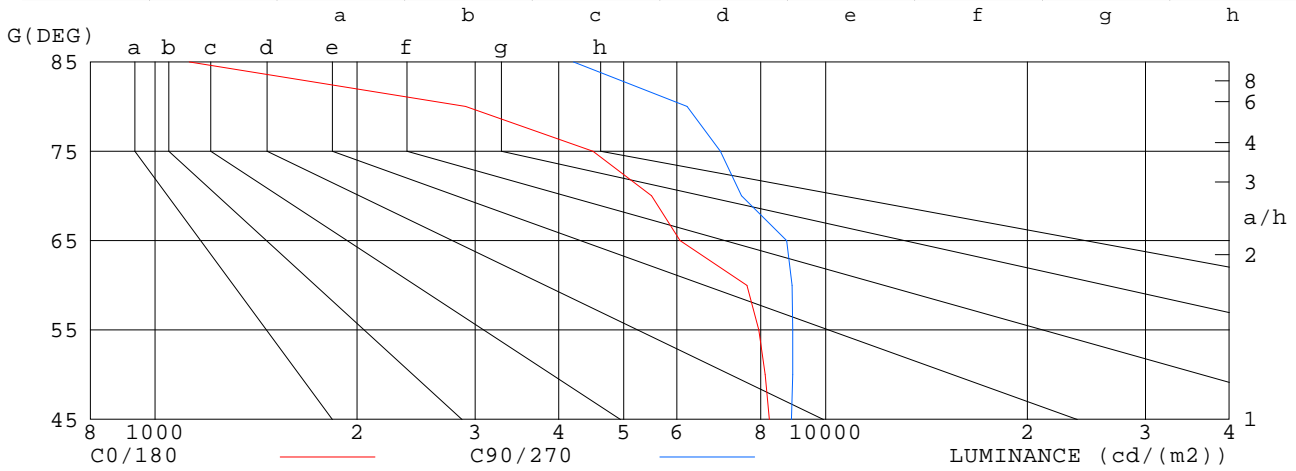
LUMINANCE LIMITATION CURVES

Report number:

|                 |            |             |
|-----------------|------------|-------------|
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LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) |      |      |       |       |       |       |       |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A     | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50  | B     |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85  | C     |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20  | D     |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55  | E     |                  |      |      |       | 2000  | 1000  | 500   | <=300 |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 1124   | 4207    |
| 80                | 2902   | 6215    |
| 75                | 4496   | 6971    |
| 70                | 5498   | 7495    |
| 65                | 6068   | 8750    |
| 60                | 7632   | 8916    |
| 55                | 7948   | 8936    |
| 50                | 8125   | 8932    |
| 45                | 8241   | 8892    |

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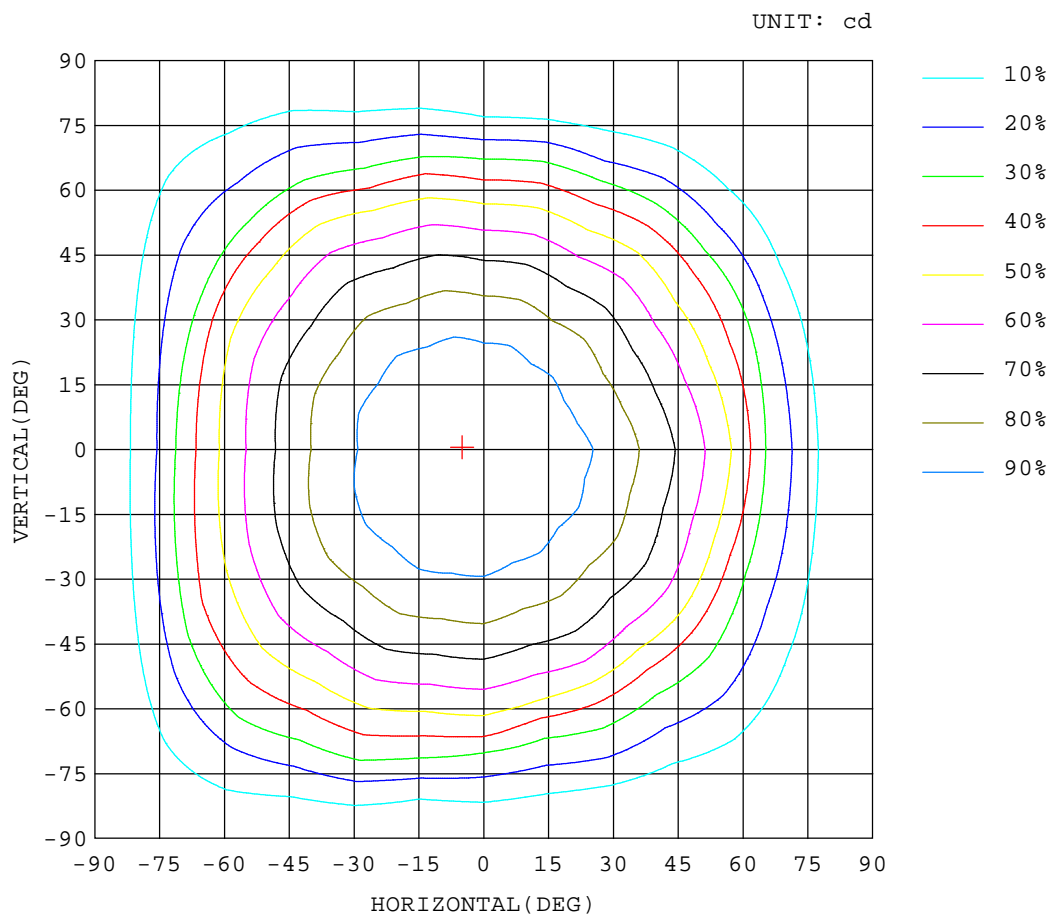
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## ISOCANDELA DIAGRAM

Report number:

|                        |                   |                    |
|------------------------|-------------------|--------------------|
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