

# Light Intensity Distribution Test

## Product Information

Product Name: Rhino300-NW

Manufactory: GW

Operator: hua

Test Date: 2022-07-22

## Test Condition

Temperature: 26.8 Cels.

Humidity: 60 %

Start Angle: -180 Deg.

End Angle: 180 Deg.

Step Angle: 1 Deg.

Plane Number.: 1

Test Distance: 3 m

## Electric Param

Voltage: 240.4 V

Current: 0.091 A

Power: 20.81 W

PF: 0.941

## Photometric Param

Maximum Cand. (I<sub>vm</sub>): 828.78 cd

Max. Cand. Angle(Deg): C=180.0 gama= 1.0

Center Cd(I<sub>vo</sub>): 828.24 cd

Beam Angle(50%) β : 111.2 deg.

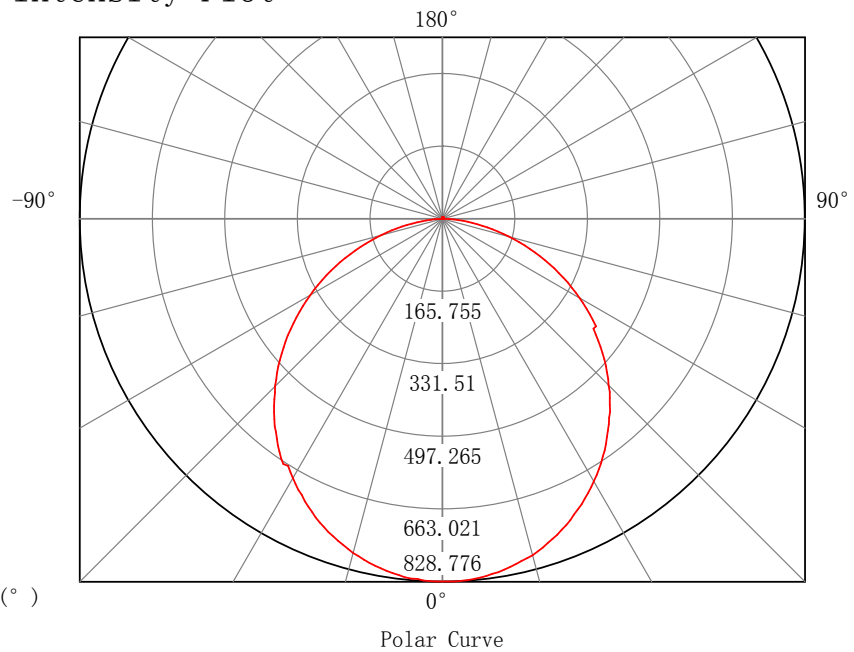
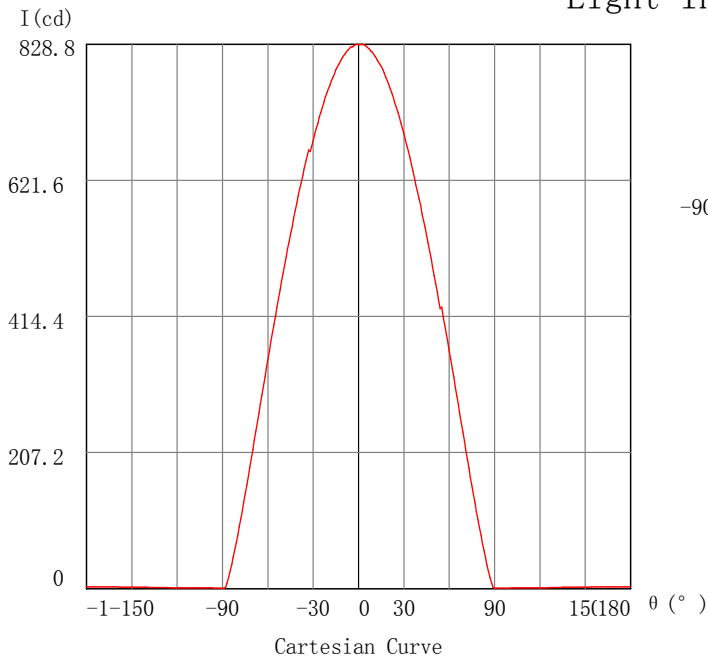
Lumens: 2323.737 lm

Lumen-Effic: 111.664 lm/W

90 Deg. Lumens: 1251.710 lmW

120 Deg. Lumens: 1831.623 lm

## Light Intensity Plot



C0-180 ———

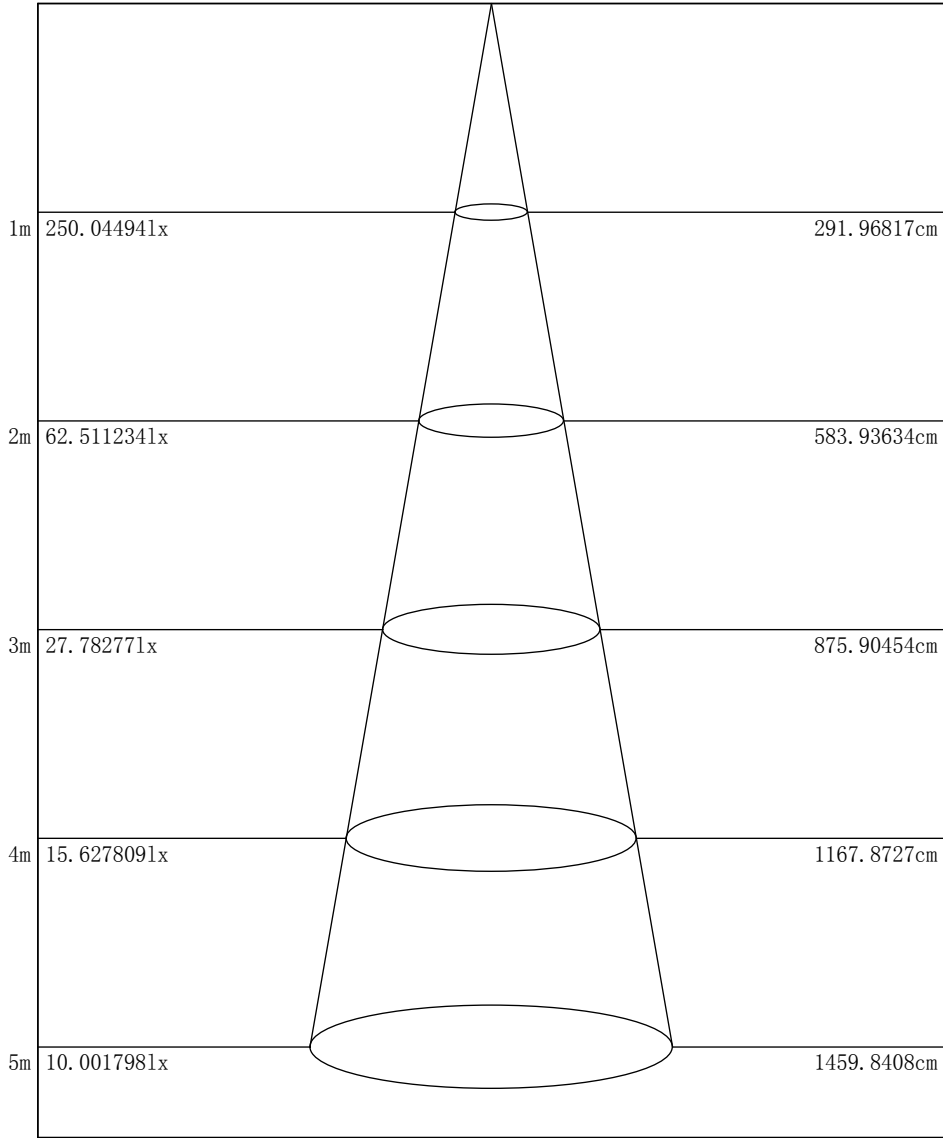
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# Lux-Distance Diagram

Luminous Flux: 2323.737 lm

Beam Luminous Flux: 1674.091 lm



Height Aver. Lux

Beam Ang. =111.2(° )

Beam Dia.

10%Beam Angle= 160.7(° )

50%Beam Angle= 111.2(° )

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## Lighting Intensity Data Table

| Ang.   | Cand. | Ang.   | Cand. | Ang.   | Cand. | Ang.  | Cand.  | Ang.  | Cand.  | Ang.  | Cand.  |
|--------|-------|--------|-------|--------|-------|-------|--------|-------|--------|-------|--------|
| -180.0 | 2.95  | -146.0 | 2.16  | -112.0 | 1.31  | -78.0 | 106.22 | -44.0 | 551.62 | -10.0 | 810.90 |
| -179.0 | 2.91  | -145.0 | 2.09  | -111.0 | 1.26  | -77.0 | 118.78 | -43.0 | 563.91 | -9.0  | 814.07 |
| -178.0 | 2.87  | -144.0 | 2.04  | -110.0 | 1.21  | -76.0 | 131.62 | -42.0 | 575.36 | -8.0  | 817.37 |
| -177.0 | 2.88  | -143.0 | 2.02  | -109.0 | 1.18  | -75.0 | 144.61 | -41.0 | 586.59 | -7.0  | 820.06 |
| -176.0 | 2.90  | -142.0 | 2.02  | -108.0 | 1.17  | -74.0 | 157.80 | -40.0 | 597.29 | -6.0  | 822.95 |
| -175.0 | 2.94  | -141.0 | 2.03  | -107.0 | 1.19  | -73.0 | 171.18 | -39.0 | 609.15 | -5.0  | 824.69 |
| -174.0 | 2.95  | -140.0 | 2.02  | -106.0 | 1.20  | -72.0 | 184.73 | -38.0 | 618.29 | -4.0  | 824.82 |
| -173.0 | 2.90  | -139.0 | 1.99  | -105.0 | 1.18  | -71.0 | 198.19 | -37.0 | 629.11 | -3.0  | 826.89 |
| -172.0 | 2.85  | -138.0 | 1.93  | -104.0 | 1.16  | -70.0 | 211.85 | -36.0 | 639.46 | -2.0  | 828.16 |
| -171.0 | 2.83  | -137.0 | 1.90  | -103.0 | 1.13  | -69.0 | 225.75 | -35.0 | 649.67 | -1.0  | 828.78 |
| -170.0 | 2.83  | -136.0 | 1.88  | -102.0 | 1.12  | -68.0 | 239.38 | -34.0 | 659.45 | 0.0   | 828.24 |
| -169.0 | 2.85  | -135.0 | 1.88  | -101.0 | 1.13  | -67.0 | 253.36 | -33.0 | 668.11 | 1.0   | 828.26 |
| -168.0 | 2.87  | -134.0 | 1.87  | -100.0 | 1.12  | -66.0 | 267.21 | -32.0 | 665.46 | 2.0   | 828.69 |
| -167.0 | 2.84  | -133.0 | 1.85  | -99.0  | 1.11  | -65.0 | 281.21 | -31.0 | 674.35 | 3.0   | 828.07 |
| -166.0 | 2.79  | -132.0 | 1.79  | -98.0  | 1.10  | -64.0 | 294.79 | -30.0 | 683.55 | 4.0   | 827.56 |
| -165.0 | 2.74  | -131.0 | 1.73  | -97.0  | 1.10  | -63.0 | 308.90 | -29.0 | 692.20 | 5.0   | 825.50 |
| -164.0 | 2.70  | -130.0 | 1.68  | -96.0  | 1.07  | -62.0 | 322.41 | -28.0 | 701.26 | 6.0   | 824.02 |
| -163.0 | 2.70  | -129.0 | 1.65  | -95.0  | 1.03  | -61.0 | 336.26 | -27.0 | 708.23 | 7.0   | 821.90 |
| -162.0 | 2.70  | -128.0 | 1.64  | -94.0  | 1.02  | -60.0 | 349.39 | -26.0 | 717.69 | 8.0   | 818.70 |
| -161.0 | 2.70  | -127.0 | 1.62  | -93.0  | 1.01  | -59.0 | 362.91 | -25.0 | 725.09 | 9.0   | 817.18 |
| -160.0 | 2.66  | -126.0 | 1.57  | -92.0  | 1.02  | -58.0 | 376.56 | -24.0 | 732.83 | 10.0  | 813.47 |
| -159.0 | 2.59  | -125.0 | 1.52  | -91.0  | 1.02  | -57.0 | 389.60 | -23.0 | 741.09 | 11.0  | 809.97 |
| -158.0 | 2.53  | -124.0 | 1.47  | -90.0  | 1.01  | -56.0 | 402.81 | -22.0 | 748.10 | 12.0  | 806.25 |
| -157.0 | 2.49  | -123.0 | 1.45  | -89.0  | 1.00  | -55.0 | 415.86 | -21.0 | 754.66 | 13.0  | 802.19 |
| -156.0 | 2.47  | -122.0 | 1.45  | -88.0  | 2.58  | -54.0 | 428.74 | -20.0 | 761.41 | 14.0  | 799.01 |
| -155.0 | 2.47  | -121.0 | 1.45  | -87.0  | 8.76  | -53.0 | 442.26 | -19.0 | 766.81 | 15.0  | 795.27 |
| -154.0 | 2.46  | -120.0 | 1.46  | -86.0  | 17.35 | -52.0 | 455.17 | -18.0 | 773.06 | 16.0  | 790.03 |
| -153.0 | 2.39  | -119.0 | 1.44  | -85.0  | 26.90 | -51.0 | 467.11 | -17.0 | 778.45 | 17.0  | 785.46 |
| -152.0 | 2.32  | -118.0 | 1.42  | -84.0  | 36.99 | -50.0 | 479.53 | -16.0 | 783.82 | 18.0  | 778.42 |
| -151.0 | 2.26  | -117.0 | 1.39  | -83.0  | 47.71 | -49.0 | 492.53 | -15.0 | 789.94 | 19.0  | 773.12 |
| -150.0 | 2.24  | -116.0 | 1.37  | -82.0  | 58.71 | -48.0 | 505.31 | -14.0 | 794.34 | 20.0  | 767.78 |
| -149.0 | 2.23  | -115.0 | 1.35  | -81.0  | 70.12 | -47.0 | 517.57 | -13.0 | 799.09 | 21.0  | 760.76 |
| -148.0 | 2.23  | -114.0 | 1.35  | -80.0  | 81.93 | -46.0 | 527.90 | -12.0 | 803.37 | 22.0  | 754.50 |
| -147.0 | 2.22  | -113.0 | 1.34  | -79.0  | 93.92 | -45.0 | 541.11 | -11.0 | 807.22 | 23.0  | 747.55 |

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 Lighting Intensity Data Table---Continue
 

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| Ang. | Cand.  | Ang. | Cand.  | Ang.  | Cand.  | Ang.  | Cand. | Ang.  | Cand. | Ang.  | Cand. |
|------|--------|------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| 24.0 | 739.40 | 51.0 | 464.47 | 78.0  | 117.52 | 105.0 | 1.23  | 132.0 | 1.86  | 159.0 | 2.73  |
| 25.0 | 732.54 | 52.0 | 452.31 | 79.0  | 104.97 | 106.0 | 1.23  | 133.0 | 1.92  | 160.0 | 2.77  |
| 26.0 | 725.36 | 53.0 | 438.78 | 80.0  | 92.68  | 107.0 | 1.24  | 134.0 | 2.00  | 161.0 | 2.80  |
| 27.0 | 717.31 | 54.0 | 426.16 | 81.0  | 80.63  | 108.0 | 1.23  | 135.0 | 2.05  | 162.0 | 2.85  |
| 28.0 | 709.18 | 55.0 | 428.44 | 82.0  | 69.11  | 109.0 | 1.19  | 136.0 | 2.05  | 163.0 | 2.86  |
| 29.0 | 700.59 | 56.0 | 415.25 | 83.0  | 57.69  | 110.0 | 1.16  | 137.0 | 2.05  | 164.0 | 2.82  |
| 30.0 | 692.01 | 57.0 | 401.88 | 84.0  | 46.72  | 111.0 | 1.16  | 138.0 | 2.04  | 165.0 | 2.80  |
| 31.0 | 683.41 | 58.0 | 388.66 | 85.0  | 36.19  | 112.0 | 1.17  | 139.0 | 2.05  | 166.0 | 2.77  |
| 32.0 | 674.33 | 59.0 | 375.13 | 86.0  | 26.07  | 113.0 | 1.21  | 140.0 | 2.10  | 167.0 | 2.79  |
| 33.0 | 665.42 | 60.0 | 362.16 | 87.0  | 16.61  | 114.0 | 1.25  | 141.0 | 2.17  | 168.0 | 2.84  |
| 34.0 | 655.22 | 61.0 | 348.67 | 88.0  | 8.07   | 115.0 | 1.27  | 142.0 | 2.25  | 169.0 | 2.89  |
| 35.0 | 646.18 | 62.0 | 334.51 | 89.0  | 2.10   | 116.0 | 1.27  | 143.0 | 2.26  | 170.0 | 2.90  |
| 36.0 | 635.88 | 63.0 | 321.45 | 90.0  | 0.92   | 117.0 | 1.26  | 144.0 | 2.25  | 171.0 | 2.89  |
| 37.0 | 624.57 | 64.0 | 307.38 | 91.0  | 0.93   | 118.0 | 1.28  | 145.0 | 2.27  | 172.0 | 2.87  |
| 38.0 | 614.19 | 65.0 | 293.57 | 92.0  | 0.96   | 119.0 | 1.30  | 146.0 | 2.30  | 173.0 | 2.87  |
| 39.0 | 604.40 | 66.0 | 279.89 | 93.0  | 0.98   | 120.0 | 1.35  | 147.0 | 2.36  | 174.0 | 2.91  |
| 40.0 | 593.11 | 67.0 | 266.03 | 94.0  | 1.00   | 121.0 | 1.40  | 148.0 | 2.43  | 175.0 | 2.96  |
| 41.0 | 584.10 | 68.0 | 252.17 | 95.0  | 0.99   | 122.0 | 1.44  | 149.0 | 2.50  | 176.0 | 2.98  |
| 42.0 | 571.66 | 69.0 | 238.37 | 96.0  | 1.00   | 123.0 | 1.46  | 150.0 | 2.51  | 177.0 | 2.96  |
| 43.0 | 560.27 | 70.0 | 224.73 | 97.0  | 1.01   | 124.0 | 1.48  | 151.0 | 2.51  | 178.0 | 2.92  |
| 44.0 | 550.21 | 71.0 | 210.90 | 98.0  | 1.02   | 125.0 | 1.52  | 152.0 | 2.51  | 179.0 | 2.89  |
| 45.0 | 537.02 | 72.0 | 197.18 | 99.0  | 1.05   | 126.0 | 1.57  | 153.0 | 2.55  | 180.0 | 2.90  |
| 46.0 | 526.78 | 73.0 | 183.58 | 100.0 | 1.07   | 127.0 | 1.64  | 154.0 | 2.61  |       |       |
| 47.0 | 513.91 | 74.0 | 170.08 | 101.0 | 1.13   | 128.0 | 1.72  | 155.0 | 2.68  |       |       |
| 48.0 | 502.52 | 75.0 | 156.64 | 102.0 | 1.18   | 129.0 | 1.78  | 156.0 | 2.73  |       |       |
| 49.0 | 489.90 | 76.0 | 143.34 | 103.0 | 1.21   | 130.0 | 1.80  | 157.0 | 2.74  |       |       |
| 50.0 | 477.14 | 77.0 | 130.45 | 104.0 | 1.23   | 131.0 | 1.82  | 158.0 | 2.73  |       |       |

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