

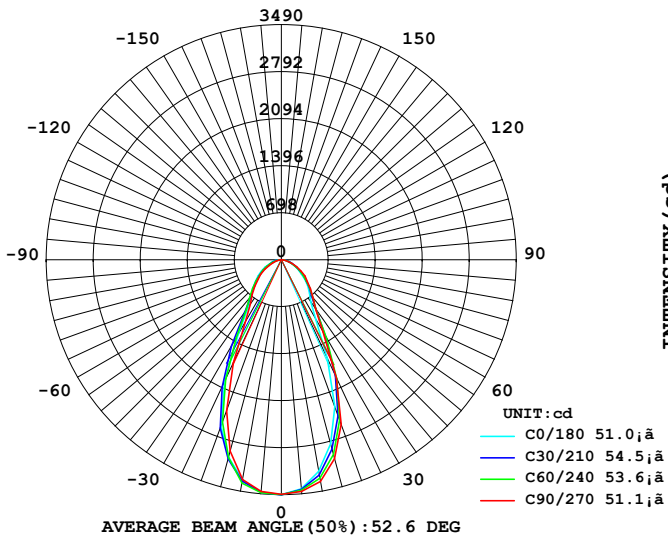
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

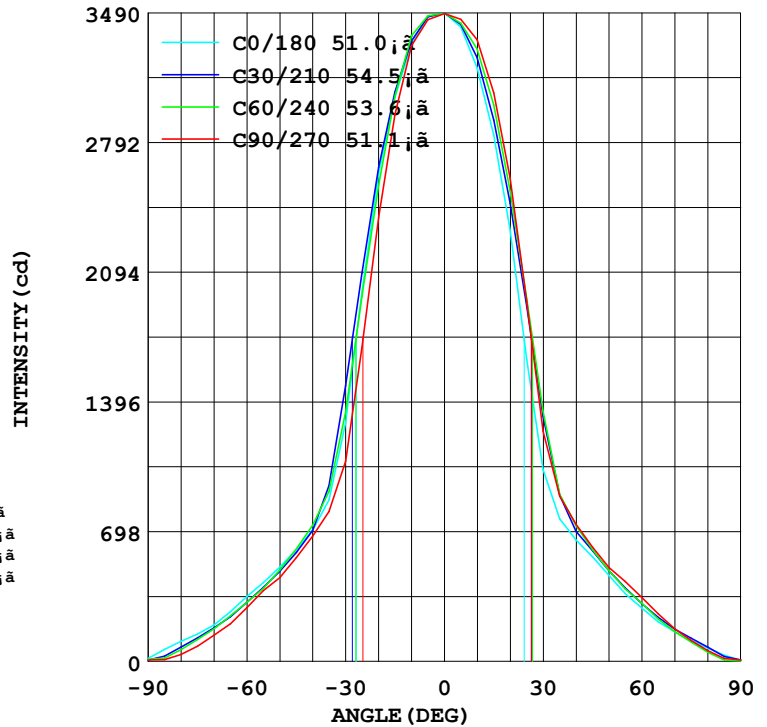
|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

|                   |           |                     |        |                   |       |
|-------------------|-----------|---------------------|--------|-------------------|-------|
| DATA OF LAMP      |           | Imax (cd)           | 3490   | S/MH (C0/180)     | 0.81  |
| MODEL             | VIRAJ 100 | EFFICIENCY (%)      | 100.0  | S/MH (C90/270)    | 0.76  |
| NOMINAL POWER (W) | 35        | TOTAL FLUX (lm)     | 3832.7 | Voltage (V)       | 219.8 |
| RATED VOLTAGE (V) | 220       | EFFICIENCY (lm/W)   | 110.1  | Current (A)       | 0.162 |
| NOMINAL FLUX (lm) | 3832.7    | $\eta$ up (%)       | 0.0    | Power (W)         | 34.79 |
| LAMPS QUANTITY    | 1         | $\eta$ down (%)     | 100.0  | Power Factor (PF) | 0.936 |
| TEST VOLTAGE (V)  | 219.9     | Effective Flux (lm) | 3386.4 | EEI               | 0.140 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800  
Temperature: 25.3 DEG  
Operators:  
Test Date: 05-20-2025

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 8.100 m  
Remarks: 4000K

Color Temperature Data List

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

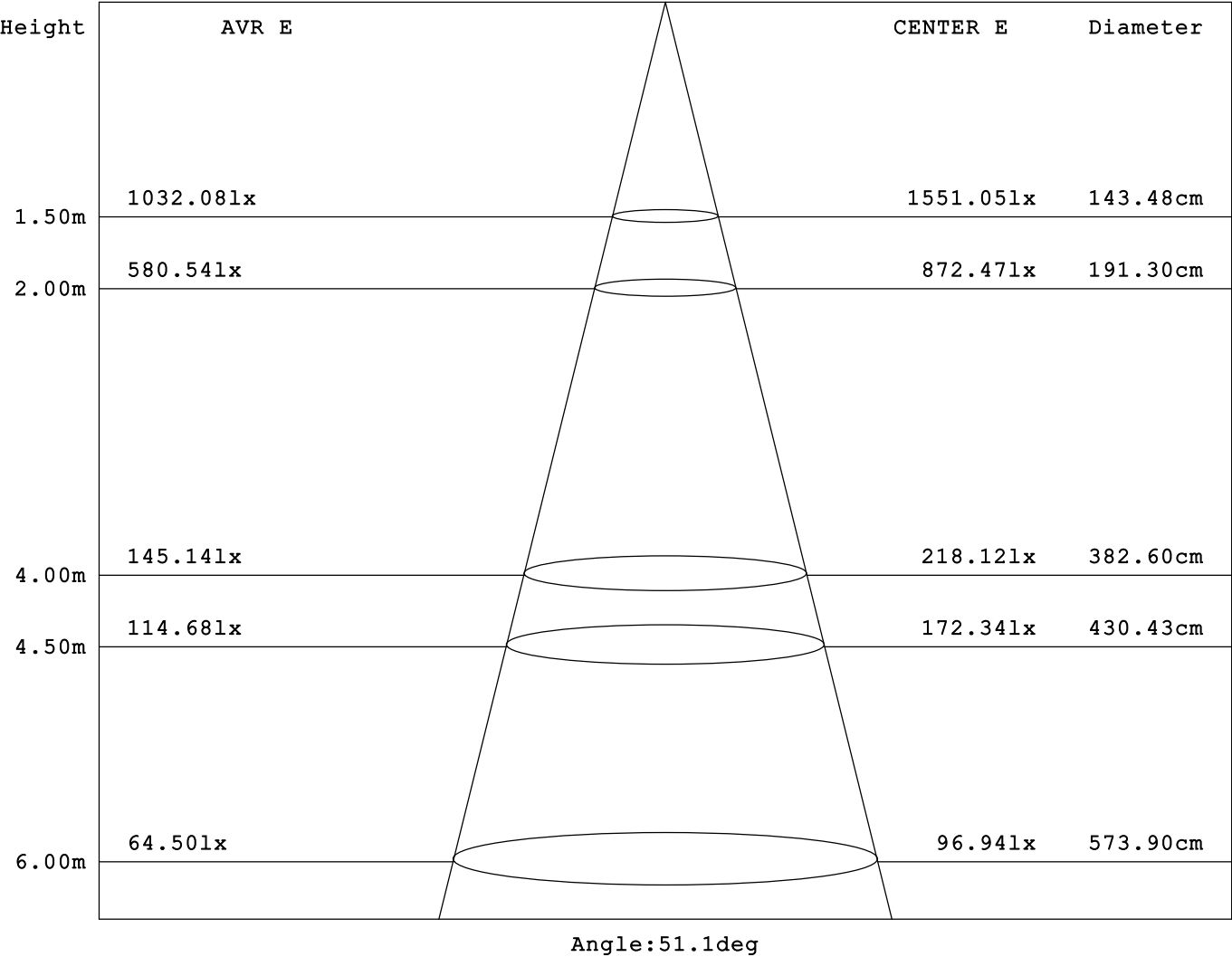
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

AVERAGE AND CENTER E Figure

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

ZONAL FLUX DIAGRAM

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

| γ     | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | Zone    | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 10.0  | 3324                  | 3354  | 3314  | 3215  | 3194  | 3271  | 3344  | 3368  | 0- 10   | 324.1   | 324.1 |
| 20.0  | 2626                  | 2610  | 2387  | 2354  | 2321  | 2499  | 2601  | 2733  | 10- 20  | 827.0   | 1151  |
| 30.0  | 1286                  | 1413  | 1076  | 1192  | 1033  | 1332  | 1239  | 1606  | 20- 30  | 876.3   | 2028  |
| 40.0  | 706.2                 | 719.1 | 674.3 | 671.4 | 653.9 | 715.3 | 738.1 | 777.6 | 30- 40  | 593.7   | 2621  |
| 50.0  | 507.2                 | 488.4 | 450.4 | 450.5 | 462.8 | 488.2 | 504.8 | 523.6 | 40- 50  | 459.2   | 3081  |
| 60.0  | 349.4                 | 318.1 | 288.0 | 283.7 | 286.6 | 311.5 | 344.0 | 346.6 | 50- 60  | 356.0   | 3437  |
| 70.0  | 195.0                 | 178.1 | 140.4 | 148.5 | 158.9 | 166.3 | 174.0 | 192.8 | 60- 70  | 237.1   | 3674  |
| 80.0  | 108.1                 | 69.44 | 36.74 | 50.88 | 71.18 | 62.39 | 58.26 | 83.91 | 70- 80  | 124.3   | 3798  |
| 90.0  | 16.92                 | 9.775 | 7.676 | 9.841 | 6.561 | 5.380 | 8.004 | 7.413 | 80- 90  | 34.44   | 3833  |
| 100.0 |                       |       |       |       |       |       |       |       | 90-100  |         |       |
| 110.0 |                       |       |       |       |       |       |       |       | 100-110 |         |       |
| 120.0 |                       |       |       |       |       |       |       |       | 110-120 |         |       |
| 130.0 |                       |       |       |       |       |       |       |       | 120-130 |         |       |
| 140.0 |                       |       |       |       |       |       |       |       | 130-140 |         |       |
| 150.0 |                       |       |       |       |       |       |       |       | 140-150 |         |       |
| 160.0 |                       |       |       |       |       |       |       |       | 150-160 |         |       |
| 170.0 |                       |       |       |       |       |       |       |       | 160-170 |         |       |
| 180.0 |                       |       |       |       |       |       |       |       | 170-180 |         |       |
| DEG   | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |       |

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

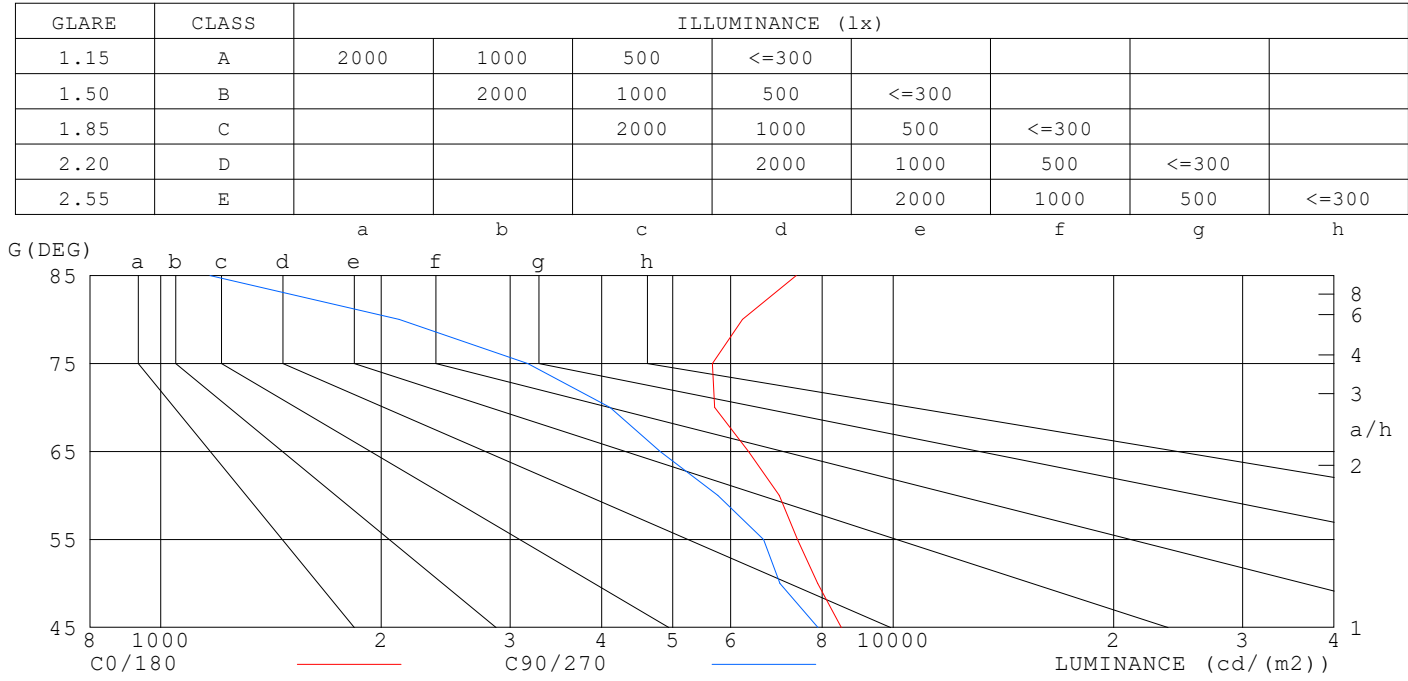
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

LUMINANCE LIMITATION CURVES

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

LUMINANCE LIMITATION CURVES



LUMINANCE cd/m2

| G (DEG) | C0/180 | C90/270 |
|---------|--------|---------|
| 85      | 7377   | 1167    |
| 80      | 6230   | 2116    |
| 75      | 5668   | 3169    |
| 70      | 5703   | 4107    |
| 65      | 6348   | 4806    |
| 60      | 6989   | 5761    |
| 55      | 7402   | 6652    |
| 50      | 7892   | 7008    |
| 45      | 8500   | 7898    |

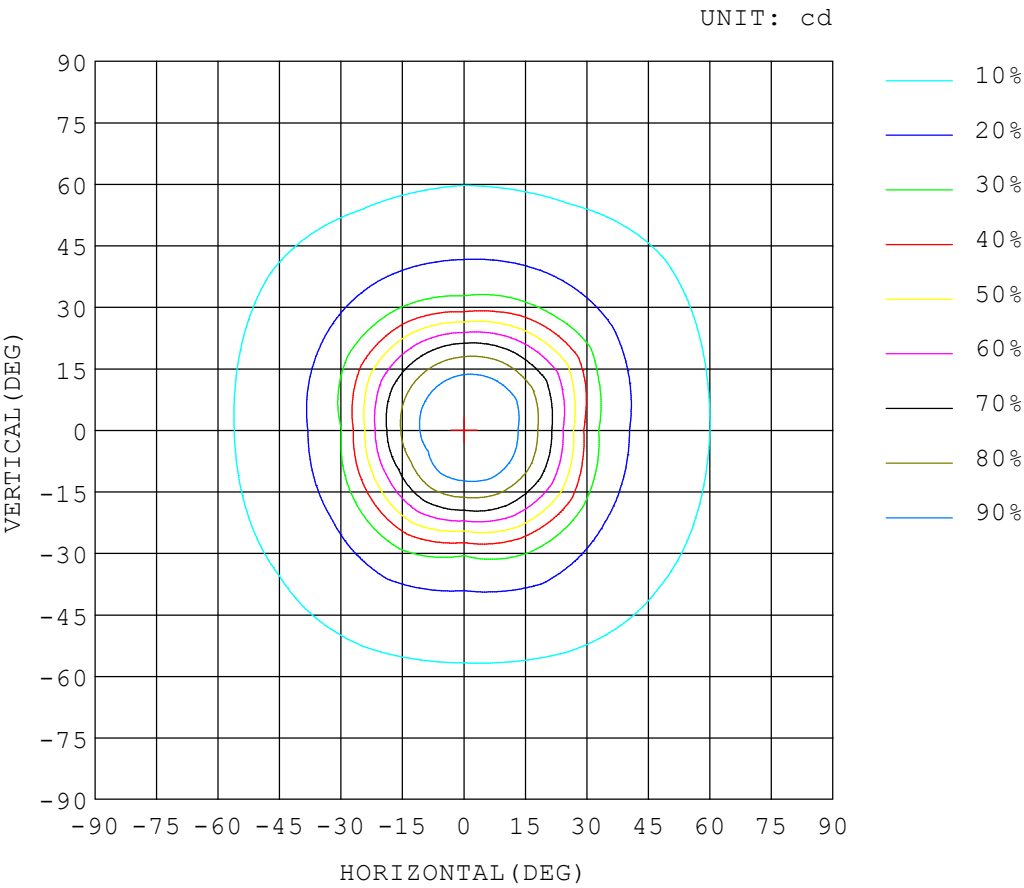
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |



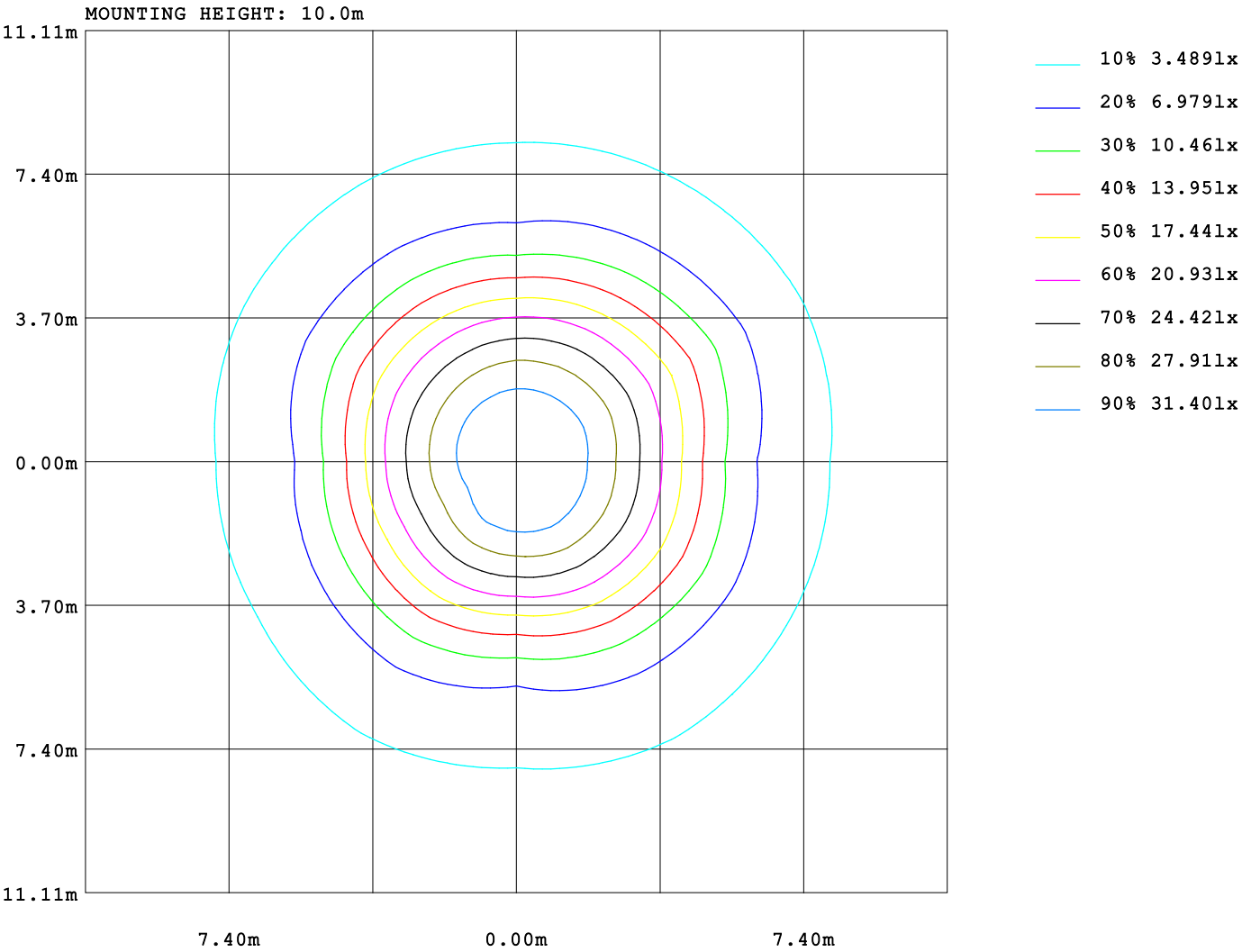
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

AREA LUMINOUS FLUX

Report number:

|                                                                      |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |             |  |  |  |  |  |
|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|-------------|--|--|--|--|--|
| MANUFACTURER: DIVIITY LIGHTS                                         |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |             |  |  |  |  |  |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |  |  |  |  |  |  |  |  |  |                            |  |  |  |  |             |  |  |  |  |  |
| NAME: VIRAJ 100                                                      |  |  |  |  |  |  |  |  |  | TYPE: 4000K CRI-90         |  |  |  |  | WEIGHT:     |  |  |  |  |  |
| SPECIFICATION:                                                       |  |  |  |  |  |  |  |  |  | DIMENSION: 1200*100*120 MM |  |  |  |  | SERIAL No.: |  |  |  |  |  |

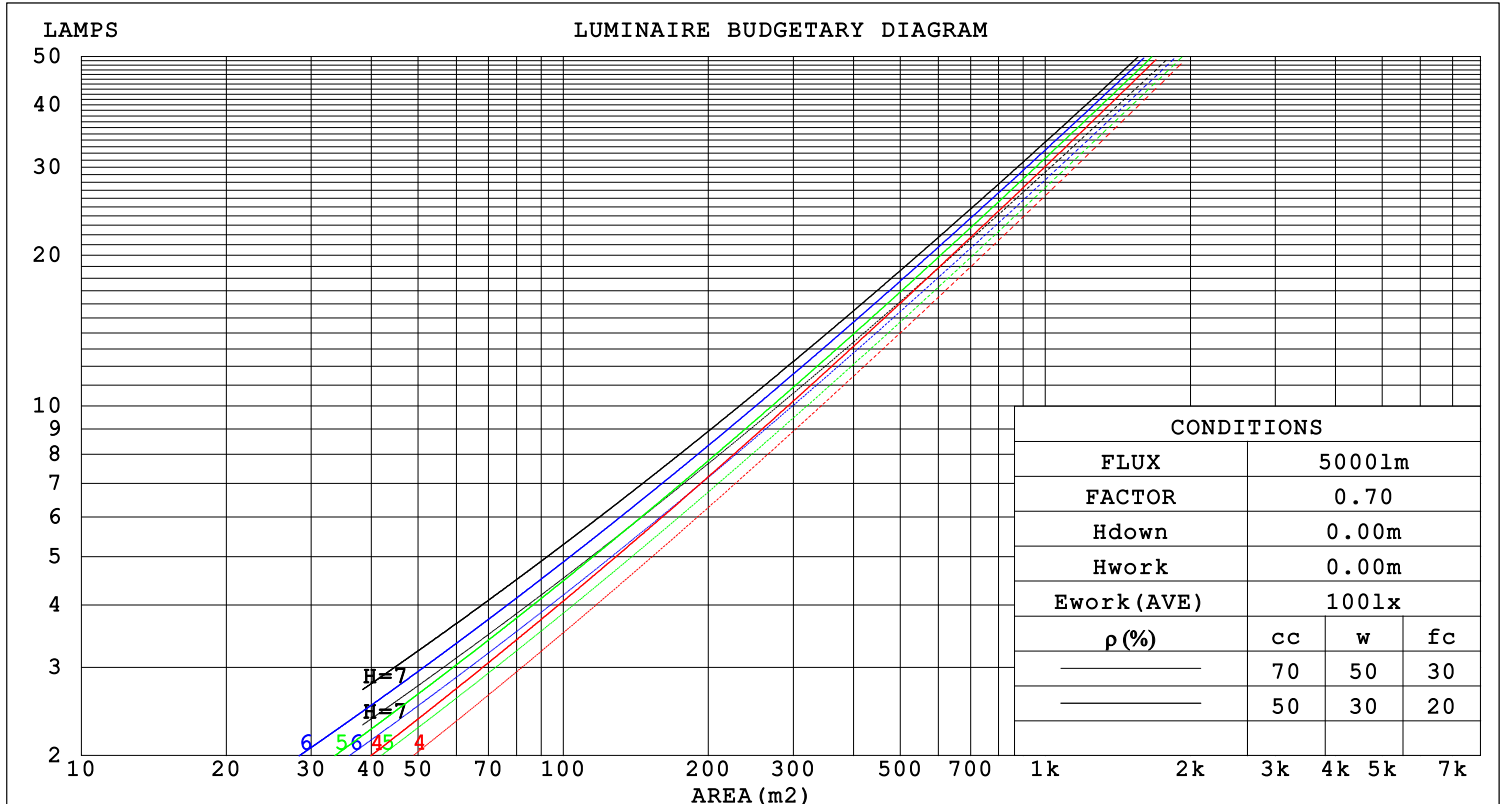
| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t | Φ a  |    |    |    |    |    |    |    |    |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|------|------|---------|------|-----|------|----|----|----|----|----|----|----|----|
|                | 0.03              | 0.10 | 0.21 | 0.30 | 0.35 | 0.36 | 0.42 | 0.58 | 0.71             | 0.76 | 0.71 | 0.60 | 0.58 | 0.60 | 0.54 | 0.38 | 0.20 | 0.06 | 7.49    | 0.00 |     |      |    |    |    |    |    |    |    |    |
| 90             |                   |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      |      |         |      |     |      |    |    |    |    |    |    |    |    |
| 80             | 0.04              | 0.20 | 0.54 | 1.02 | 1.50 | 1.96 | 2.47 | 3.02 | 3.38             | 3.49 | 3.33 | 2.93 | 2.46 | 1.98 | 1.45 | 0.88 | 0.39 | 0.08 | 31.1    | 0.00 |     |      |    |    |    |    |    |    |    |    |
| 70             | 0.06              | 0.35 | 1.01 | 1.97 | 3.03 | 4.20 | 5.44 | 6.71 | 7.58             | 7.77 | 7.27 | 6.27 | 4.94 | 3.62 | 2.48 | 1.39 | 0.57 | 0.11 | 64.8    | 0.00 |     |      |    |    |    |    |    |    |    |    |
| 60             | 0.07              | 0.50 | 1.45 | 2.90 | 4.76 | 6.97 | 9.19 | 11.2 | 12.6             | 12.7 | 11.6 | 9.85 | 7.89 | 5.60 | 3.44 | 1.86 | 0.75 | 0.14 | 104     | 54.3 |     |      |    |    |    |    |    |    |    |    |
| 50             | 0.09              | 0.64 | 1.86 | 3.88 | 6.73 | 10.0 | 13.4 | 16.5 | 18.4             | 18.6 | 17.1 | 14.1 | 10.8 | 7.66 | 4.61 | 2.27 | 0.90 | 0.16 | 148     | 124  |     |      |    |    |    |    |    |    |    |    |
| 40             | 0.10              | 0.76 | 2.23 | 4.84 | 8.67 | 13.3 | 18.5 | 24.0 | 28.0             | 28.8 | 25.6 | 19.9 | 14.4 | 9.69 | 5.71 | 2.70 | 1.02 | 0.18 | 209     | 193  |     |      |    |    |    |    |    |    |    |    |
| 30             | 0.11              | 0.85 | 2.53 | 5.66 | 10.3 | 16.5 | 26.5 | 43.4 | 56.2             | 58.2 | 48.5 | 31.6 | 18.4 | 11.4 | 6.59 | 3.09 | 1.11 | 0.19 | 342     | 329  |     |      |    |    |    |    |    |    |    |    |
|                | 0.12              | 0.91 | 2.75 | 6.24 | 11.6 | 19.3 | 39.6 | 68.7 | 87.7             | 90.1 | 75.9 | 49.0 | 22.8 | 12.6 | 7.20 | 3.37 | 1.17 | 0.20 | 500     | 488  |     |      |    |    |    |    |    |    |    |    |
|                | 0.12              | 0.93 | 2.84 | 6.50 | 12.1 | 20.5 | 46.1 | 81.2 | 101              | 103  | 87.8 | 55.3 | 24.2 | 13.1 | 7.48 | 3.51 | 1.20 | 0.21 | 567     | 557  |     |      |    |    |    |    |    |    |    |    |
|                | 0.12              | 0.92 | 2.80 | 6.40 | 11.8 | 19.9 | 44.2 | 78.9 | 99.9             | 103  | 86.6 | 53.5 | 23.2 | 12.8 | 7.38 | 3.48 | 1.19 | 0.21 | 556     | 545  |     |      |    |    |    |    |    |    |    |    |
|                | 0.12              | 0.88 | 2.63 | 5.96 | 10.9 | 17.9 | 35.4 | 64.3 | 84.4             | 86.9 | 71.9 | 43.9 | 20.5 | 12.0 | 6.94 | 3.27 | 1.14 | 0.20 | 470     | 458  |     |      |    |    |    |    |    |    |    |    |
| -30            | 0.11              | 0.80 | 2.35 | 5.25 | 9.43 | 15.0 | 24.2 | 40.1 | 50.9             | 52.4 | 43.9 | 27.7 | 16.6 | 10.5 | 6.18 | 2.93 | 1.06 | 0.18 | 310     | 295  |     |      |    |    |    |    |    |    |    |    |
| -40            | 0.09              | 0.70 | 2.01 | 4.32 | 7.69 | 12.1 | 17.5 | 22.8 | 25.6             | 26.0 | 23.8 | 18.6 | 13.2 | 8.77 | 5.18 | 2.52 | 0.95 | 0.17 | 193     | 173  |     |      |    |    |    |    |    |    |    |    |
| -50            | 0.08              | 0.57 | 1.63 | 3.28 | 5.94 | 9.22 | 12.8 | 15.5 | 16.9             | 17.1 | 16.1 | 13.5 | 10.1 | 6.85 | 4.06 | 2.07 | 0.82 | 0.15 | 137     | 110  |     |      |    |    |    |    |    |    |    |    |
| -60            | 0.06              | 0.43 | 1.22 | 2.41 | 4.05 | 6.27 | 8.61 | 10.3 | 11.2             | 11.4 | 10.7 | 9.28 | 7.19 | 4.94 | 3.03 | 1.60 | 0.66 | 0.13 | 93.7    | 36.8 |     |      |    |    |    |    |    |    |    |    |
| -70            | 0.05              | 0.27 | 0.78 | 1.57 | 2.63 | 3.80 | 4.92 | 5.79 | 6.28             | 6.47 | 6.33 | 5.70 | 4.53 | 3.21 | 2.03 | 1.12 | 0.48 | 0.10 | 56.1    | 0.00 |     |      |    |    |    |    |    |    |    |    |
| -80            | 0.04              | 0.15 | 0.34 | 0.71 | 1.23 | 1.80 | 2.28 | 2.56 | 2.63             | 2.73 | 2.82 | 2.68 | 2.23 | 1.64 | 1.06 | 0.62 | 0.31 | 0.08 | 25.9    | 0.00 |     |      |    |    |    |    |    |    |    |    |
| -90            | 0.02              | 0.09 | 0.14 | 0.19 | 0.31 | 0.45 | 0.54 | 0.56 | 0.52             | 0.55 | 0.62 | 0.63 | 0.57 | 0.46 | 0.33 | 0.25 | 0.17 | 0.05 | 6.44    | 0.00 |     |      |    |    |    |    |    |    |    |    |
|                | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) |      |      |      |      |      |      |      |      |      |         |      |     |      | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| Φ t            | 1.42              | 10.0 | 29.3 | 63.4 | 113  | 180  | 313  | 497  | 614              | 630  | 541  | 366  | 205  | 128  | 75.7 | 37.3 | 14.1 | 2.57 | 3833    |      |     |      |    |    |    |    |    |    |    |    |
| Φ a            | 0.00              | 0.00 | 0.00 | 18.6 | 80.3 | 151  | 285  | 471  | 589              | 605  | 514  | 338  | 176  | 96.8 | 38.5 | 0.00 | 0.00 | 0.00 |         |      |     | 3386 |    |    |    |    |    |    |    |    |

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

Report number:

| $\rho_{cc}$ | 80%                             |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0    |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| $\rho_w$    | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| $\rho_{fc}$ | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR         | RCR:Room Cavity Ratio           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|             | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 0.0         | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0         | 1.08                            | 1.04 | 1.01 | 1.05 | 1.02 | .00  | 1.01 | .99  | .97  | .97  | .95  | .94  | .94  | .92  | .91  | .89  |
| 2.0         | .97                             | .92  | .88  | .96  | .91  | .86  | .92  | .88  | .85  | .89  | .86  | .83  | .86  | .83  | .81  | .79  |
| 3.0         | .88                             | .82  | .77  | .87  | .81  | .76  | .84  | .79  | .75  | .82  | .77  | .74  | .79  | .76  | .73  | .71  |
| 4.0         | .81                             | .74  | .69  | .80  | .73  | .68  | .77  | .72  | .67  | .75  | .70  | .66  | .73  | .69  | .66  | .64  |
| 5.0         | .75                             | .67  | .62  | .74  | .67  | .62  | .72  | .66  | .61  | .70  | .65  | .60  | .68  | .64  | .60  | .58  |
| 6.0         | .69                             | .62  | .56  | .68  | .61  | .56  | .66  | .60  | .56  | .65  | .59  | .55  | .63  | .59  | .55  | .53  |
| 7.0         | .64                             | .57  | .52  | .63  | .57  | .52  | .62  | .56  | .51  | .61  | .55  | .51  | .59  | .54  | .51  | .49  |
| 8.0         | .60                             | .53  | .48  | .59  | .52  | .48  | .58  | .52  | .48  | .57  | .51  | .47  | .56  | .51  | .47  | .45  |
| 9.0         | .56                             | .49  | .45  | .56  | .49  | .44  | .55  | .48  | .44  | .54  | .48  | .44  | .53  | .48  | .44  | .42  |
| 10.0        | .53                             | .46  | .42  | .52  | .46  | .42  | .51  | .45  | .41  | .51  | .45  | .41  | .50  | .45  | .41  | .40  |



Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

## WEC AND CCEC

Report number:

|                                                                      |  |  |  |  |  |  |                            |  |  |  |  |             |  |  |
|----------------------------------------------------------------------|--|--|--|--|--|--|----------------------------|--|--|--|--|-------------|--|--|
| MANUFACTURER: DIVIITY LIGHTS                                         |  |  |  |  |  |  |                            |  |  |  |  |             |  |  |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |  |  |  |  |  |  |                            |  |  |  |  |             |  |  |
| NAME: VIRAJ 100                                                      |  |  |  |  |  |  | TYPE: 4000K CRI-90         |  |  |  |  | WEIGHT:     |  |  |
| SPECIFICATION:                                                       |  |  |  |  |  |  | DIMENSION: 1200*100*120 MM |  |  |  |  | SERIAL No.: |  |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .238                  | .135 | .043 | .231 | .132 | .042 | .218                            | .125 | .040 | .207 | .119 | .038 | .196 | .113 | .037 |   |
| 2.0  | .226                  | .124 | .038 | .220 | .121 | .037 | .209                            | .116 | .036 | .199 | .111 | .035 | .189 | .107 | .034 |   |
| 3.0  | .211                  | .113 | .034 | .206 | .111 | .033 | .197                            | .107 | .032 | .188 | .103 | .032 | .180 | .099 | .031 |   |
| 4.0  | .198                  | .103 | .030 | .193 | .101 | .030 | .185                            | .098 | .029 | .177 | .095 | .029 | .170 | .092 | .028 |   |
| 5.0  | .185                  | .094 | .027 | .181 | .093 | .027 | .174                            | .090 | .027 | .167 | .088 | .026 | .160 | .086 | .026 |   |
| 6.0  | .173                  | .087 | .025 | .170 | .086 | .025 | .163                            | .084 | .024 | .157 | .082 | .024 | .152 | .080 | .024 |   |
| 7.0  | .163                  | .081 | .023 | .160 | .080 | .023 | .154                            | .078 | .022 | .149 | .076 | .022 | .144 | .075 | .022 |   |
| 8.0  | .154                  | .075 | .021 | .151 | .074 | .021 | .146                            | .073 | .021 | .141 | .071 | .021 | .136 | .070 | .020 |   |
| 9.0  | .145                  | .070 | .020 | .143 | .070 | .020 | .138                            | .068 | .019 | .134 | .067 | .019 | .130 | .066 | .019 |   |
| 10.0 | .138                  | .066 | .018 | .136 | .066 | .018 | .132                            | .064 | .018 | .128 | .063 | .018 | .124 | .062 | .018 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .175                  | .157 | .140 | .150 | .135 | .121 | .103                                       | .093 | .083 | .059 | .054 | .048 | .019 | .017 | .016 |   |
| 2.0  | .163                  | .132 | .106 | .140 | .114 | .092 | .096                                       | .079 | .064 | .055 | .046 | .037 | .018 | .015 | .012 |   |
| 3.0  | .153                  | .114 | .083 | .131 | .098 | .072 | .090                                       | .068 | .050 | .052 | .040 | .030 | .017 | .013 | .010 |   |
| 4.0  | .144                  | .100 | .066 | .124 | .086 | .057 | .085                                       | .060 | .040 | .049 | .035 | .024 | .016 | .011 | .008 |   |
| 5.0  | .136                  | .089 | .054 | .117 | .077 | .047 | .080                                       | .054 | .033 | .047 | .032 | .020 | .015 | .010 | .006 |   |
| 6.0  | .129                  | .080 | .045 | .111 | .069 | .039 | .076                                       | .048 | .028 | .044 | .028 | .016 | .014 | .009 | .005 |   |
| 7.0  | .122                  | .073 | .038 | .105 | .063 | .033 | .072                                       | .044 | .024 | .042 | .026 | .014 | .014 | .009 | .005 |   |
| 8.0  | .116                  | .067 | .033 | .100 | .058 | .029 | .069                                       | .041 | .020 | .040 | .024 | .012 | .013 | .008 | .004 |   |
| 9.0  | .110                  | .061 | .029 | .095 | .053 | .025 | .066                                       | .038 | .018 | .038 | .022 | .011 | .012 | .007 | .003 |   |
| 10.0 | .105                  | .057 | .025 | .091 | .050 | .022 | .063                                       | .035 | .016 | .037 | .021 | .009 | .012 | .007 | .003 |   |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.100 m  
 Remarks: 4000K

Uncorrected UGR Table

Report number:

|                                                                      |        |                  |      |      |                            |      |                |             |      |      |      |
|----------------------------------------------------------------------|--------|------------------|------|------|----------------------------|------|----------------|-------------|------|------|------|
| MANUFACTURER: DIVIITY LIGHTS                                         |        |                  |      |      |                            |      |                |             |      |      |      |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |        |                  |      |      |                            |      |                |             |      |      |      |
| NAME: VIRAJ 100                                                      |        |                  |      |      | TYPE: 4000K CRI-90         |      |                | WEIGHT:     |      |      |      |
| SPECIFICATION:                                                       |        |                  |      |      | DIMENSION: 1200*100*120 MM |      |                | SERIAL No.: |      |      |      |
| ceiling/cavity                                                       | 0.7    | 0.7              | 0.5  | 0.5  | 0.3                        | 0.7  | 0.7            | 0.5         | 0.5  | 0.3  |      |
| walls                                                                | 0.5    | 0.3              | 0.5  | 0.3  | 0.3                        | 0.5  | 0.3            | 0.5         | 0.3  | 0.3  |      |
| working plane                                                        | 0.2    | 0.2              | 0.2  | 0.2  | 0.2                        | 0.2  | 0.2            | 0.2         | 0.2  | 0.2  |      |
| Room dimensions                                                      |        | Viewed crosswise |      |      |                            |      | Viewed endwise |             |      |      |      |
| x = 2H                                                               | y = 2H | 18.0             | 19.2 | 18.3 | 19.4                       | 19.6 | 17.6           | 18.8        | 17.9 | 19.0 | 19.2 |
|                                                                      | 3H     | 19.2             | 20.3 | 19.5 | 20.5                       | 20.7 | 18.5           | 19.6        | 18.8 | 19.8 | 20.1 |
|                                                                      | 4H     | 19.7             | 20.8 | 20.0 | 21.0                       | 21.3 | 18.8           | 19.8        | 19.1 | 20.1 | 20.3 |
|                                                                      | 6H     | 20.3             | 21.3 | 20.6 | 21.5                       | 21.8 | 18.8           | 19.8        | 19.2 | 20.1 | 20.4 |
|                                                                      | 8H     | 20.5             | 21.5 | 20.9 | 21.8                       | 22.0 | 18.8           | 19.8        | 19.1 | 20.0 | 20.3 |
|                                                                      | 12H    | 20.7             | 21.7 | 21.1 | 21.9                       | 22.2 | 18.8           | 19.7        | 19.1 | 20.0 | 20.3 |
| 4H                                                                   | 2H     | 18.4             | 19.5 | 18.7 | 19.7                       | 20.0 | 18.1           | 19.2        | 18.4 | 19.4 | 19.7 |
|                                                                      | 3H     | 19.8             | 20.7 | 20.1 | 21.0                       | 21.3 | 19.3           | 20.2        | 19.6 | 20.5 | 20.7 |
|                                                                      | 4H     | 20.5             | 21.3 | 20.8 | 21.6                       | 21.9 | 19.6           | 20.5        | 20.0 | 20.8 | 21.1 |
|                                                                      | 6H     | 21.1             | 21.9 | 21.5 | 22.2                       | 22.6 | 19.8           | 20.5        | 20.2 | 20.9 | 21.2 |
|                                                                      | 8H     | 21.4             | 22.1 | 21.8 | 22.5                       | 22.9 | 19.7           | 20.4        | 20.1 | 20.8 | 21.2 |
|                                                                      | 12H    | 21.7             | 22.3 | 22.1 | 22.7                       | 23.1 | 19.7           | 20.3        | 20.1 | 20.7 | 21.1 |
| 8H                                                                   | 4H     | 20.6             | 21.3 | 21.0 | 21.7                       | 22.1 | 19.9           | 20.5        | 20.3 | 20.9 | 21.3 |
|                                                                      | 6H     | 21.4             | 22.0 | 21.8 | 22.4                       | 22.8 | 20.1           | 20.7        | 20.5 | 21.0 | 21.5 |
|                                                                      | 8H     | 21.7             | 22.2 | 22.2 | 22.6                       | 23.1 | 20.1           | 20.6        | 20.5 | 21.0 | 21.4 |
|                                                                      | 12H    | 22.1             | 22.5 | 22.5 | 22.9                       | 23.4 | 20.1           | 20.5        | 20.5 | 20.9 | 21.4 |
| 12H                                                                  | 4H     | 20.6             | 21.2 | 21.0 | 21.6                       | 22.0 | 19.9           | 20.5        | 20.3 | 20.9 | 21.3 |
|                                                                      | 6H     | 21.4             | 21.9 | 21.8 | 22.3                       | 22.7 | 20.1           | 20.6        | 20.5 | 21.0 | 21.5 |
|                                                                      | 8H     | 21.7             | 22.2 | 22.2 | 22.6                       | 23.1 | 20.1           | 20.5        | 20.6 | 21.0 | 21.4 |
| Variations with the observer position at spacings:                   |        |                  |      |      |                            |      |                |             |      |      |      |
| S = 1.0H                                                             |        | + 0.2 / - 0.3    |      |      |                            |      | + 0.3 / - 0.3  |             |      |      |      |
| 1.5H                                                                 |        | + 0.1 / - 0.2    |      |      |                            |      | + 0.2 / - 0.3  |             |      |      |      |
| 2.0H                                                                 |        | + 0.3 / - 0.4    |      |      |                            |      | + 0.5 / - 1.1  |             |      |      |      |

CIE Pub.117 Corrected 3833 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.7)

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

## UTILIZATION FACTORS TABLE

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8                                                  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7                                                  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2                                                  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| k = 0.60                         | 72                                                   | 63  | 57        | 71  | 63  | 57  | 70  | 62            | 57  | 52     |
| 0.80                             | 81                                                   | 72  | 66        | 80  | 72  | 66  | 79  | 71            | 66  | 61     |
| 1.00                             | 87                                                   | 79  | 74        | 86  | 79  | 73  | 85  | 79            | 73  | 67     |
| 1.25                             | 93                                                   | 85  | 80        | 92  | 85  | 80  | 90  | 83            | 79  | 73     |
| 1.50                             | 97                                                   | 90  | 85        | 96  | 89  | 84  | 93  | 87            | 83  | 77     |
| 2.00                             | 102                                                  | 96  | 91        | 100 | 94  | 90  | 97  | 92            | 88  | 82     |
| 2.50                             | 105                                                  | 99  | 94        | 103 | 98  | 93  | 99  | 95            | 92  | 85     |
| 3.00                             | 107                                                  | 102 | 98        | 105 | 100 | 97  | 101 | 98            | 95  | 87     |
| 4.00                             | 110                                                  | 106 | 102       | 108 | 104 | 101 | 104 | 101           | 98  | 90     |
| 5.00                             | 112                                                  | 108 | 105       | 110 | 106 | 104 | 105 | 103           | 101 | 92     |
| ROOM INDEX                       | UF(total)                                            |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

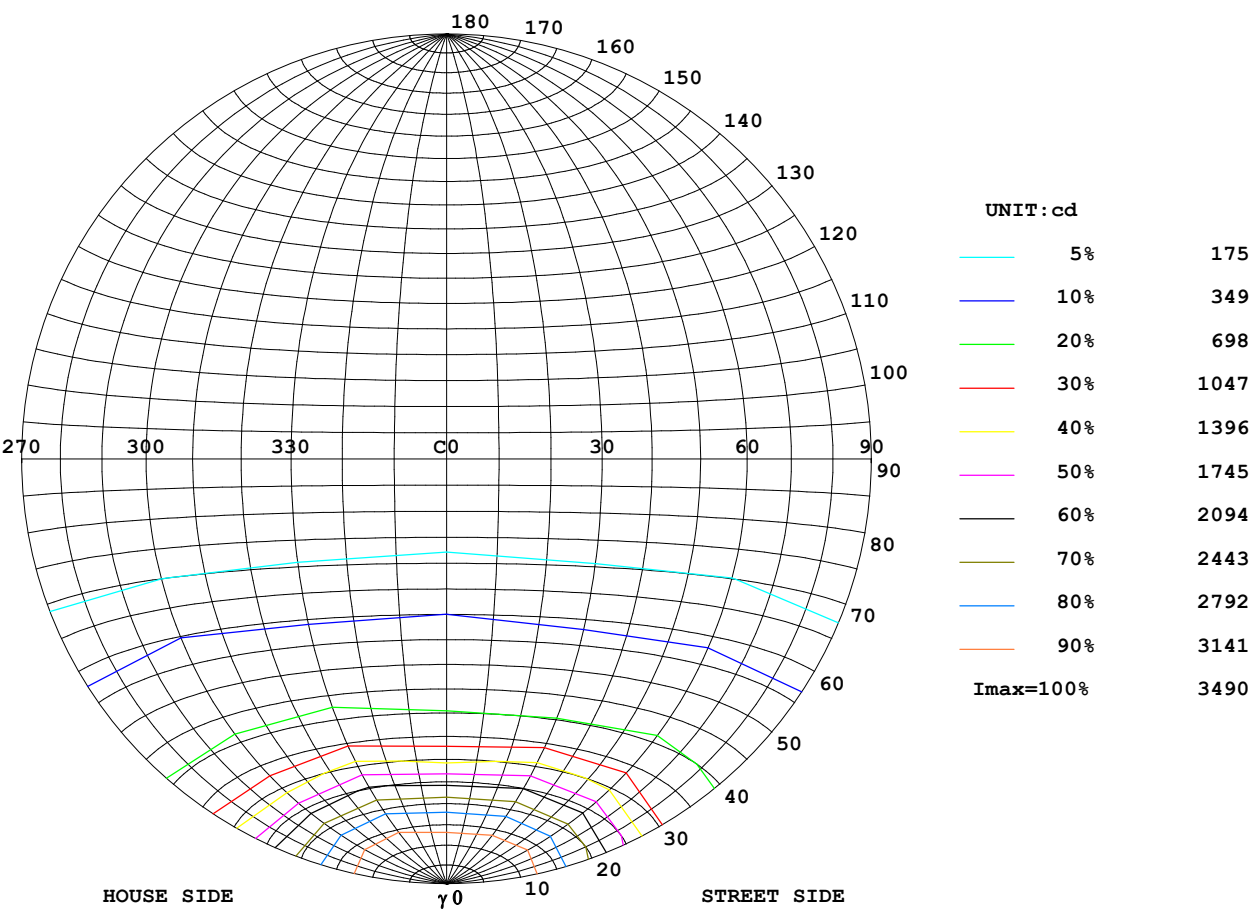
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.100 m  
 Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

ISOLUX DIAGRAM

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

ILLUMINANCE AT MH=10 m,Enadir = 34.90 lx



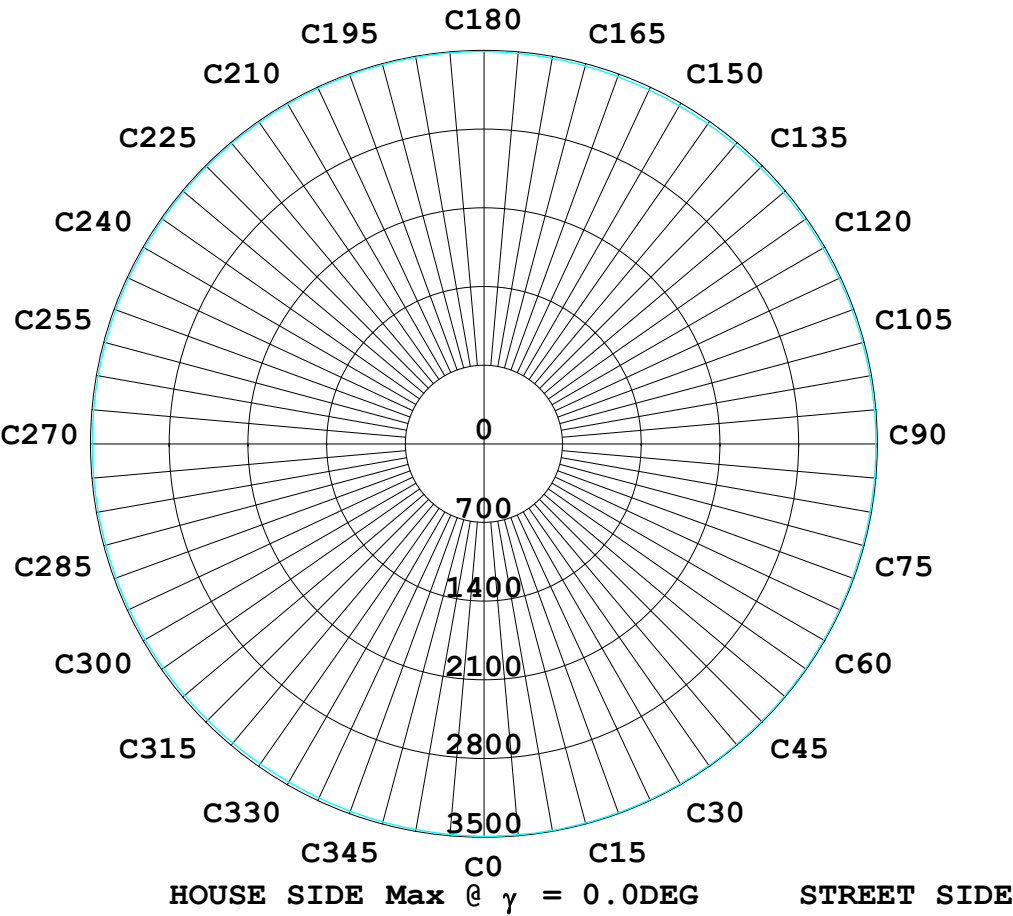
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

ISOCANDELA DIAGRAM

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

|                                                                      |                            |             |
|----------------------------------------------------------------------|----------------------------|-------------|
| MANUFACTURER: DIVIITY LIGHTS                                         |                            |             |
| Address: Plot No-A-89, RIICO Industrial Area, Karoli, Bhiwadi,301019 |                            |             |
| NAME: VIRAJ 100                                                      | TYPE: 4000K CRI-90         | WEIGHT:     |
| SPECIFICATION:                                                       | DIMENSION: 1200*100*120 MM | SERIAL No.: |

UNIT: cd

| C (DEG) |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |
| 0.0     | 3490 | 3490 | 3488 | 3485 | 3483 | 3474 | 3490 | 3490 | 3488 | 3485 | 3483 | 3474 |
| 5.0     | 3470 | 3468 | 3473 | 3453 | 3431 | 3377 | 3414 | 3427 | 3435 | 3456 | 3463 | 3474 |
| 10.0    | 3324 | 3340 | 3367 | 3314 | 3280 | 3149 | 3194 | 3248 | 3295 | 3344 | 3360 | 3377 |
| 15.0    | 3035 | 3063 | 3042 | 2942 | 2910 | 2793 | 2832 | 2913 | 2993 | 3059 | 3108 | 3130 |
| 20.0    | 2626 | 2659 | 2562 | 2387 | 2409 | 2299 | 2321 | 2467 | 2532 | 2601 | 2712 | 2754 |
| 25.0    | 1990 | 2090 | 1964 | 1690 | 1824 | 1704 | 1625 | 1910 | 1952 | 1937 | 2125 | 2291 |
| 30.0    | 1286 | 1485 | 1342 | 1076 | 1244 | 1140 | 1033 | 1318 | 1346 | 1239 | 1505 | 1706 |
| 35.0    | 869  | 946  | 915  | 807  | 864  | 798  | 767  | 895  | 899  | 890  | 989  | 1139 |
| 40.0    | 706  | 706  | 732  | 674  | 704  | 639  | 654  | 700  | 731  | 738  | 767  | 789  |
| 45.0    | 601  | 586  | 606  | 558  | 575  | 532  | 562  | 594  | 600  | 614  | 634  | 645  |
| 50.0    | 507  | 485  | 492  | 450  | 472  | 429  | 463  | 488  | 489  | 505  | 511  | 537  |
| 55.0    | 425  | 398  | 393  | 382  | 374  | 347  | 365  | 395  | 390  | 429  | 410  | 443  |
| 60.0    | 349  | 318  | 318  | 288  | 294  | 274  | 287  | 311  | 312  | 344  | 334  | 359  |
| 65.0    | 268  | 240  | 245  | 203  | 202  | 192  | 213  | 236  | 229  | 255  | 274  | 282  |
| 70.0    | 195  | 181  | 176  | 140  | 153  | 144  | 159  | 173  | 159  | 174  | 184  | 202  |
| 75.0    | 147  | 126  | 117  | 82.0 | 99.0 | 98.6 | 113  | 124  | 105  | 112  | 126  | 155  |
| 80.0    | 108  | 76.6 | 62.1 | 36.7 | 48.8 | 52.8 | 71.1 | 76.5 | 48.2 | 58.2 | 64.6 | 103  |
| 85.0    | 64.2 | 28.0 | 18.3 | 10.1 | 16.2 | 10.6 | 33.1 | 27.4 | 8.26 | 16.9 | 16.5 | 52.9 |
| 90.0    | 16.9 | 7.87 | 11.6 | 7.67 | 11.5 | 8.13 | 6.56 | 7.54 | 3.21 | 8.00 | 4.46 | 10.3 |

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:05-20-2025

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.100 m  
Remarks: 4000K