

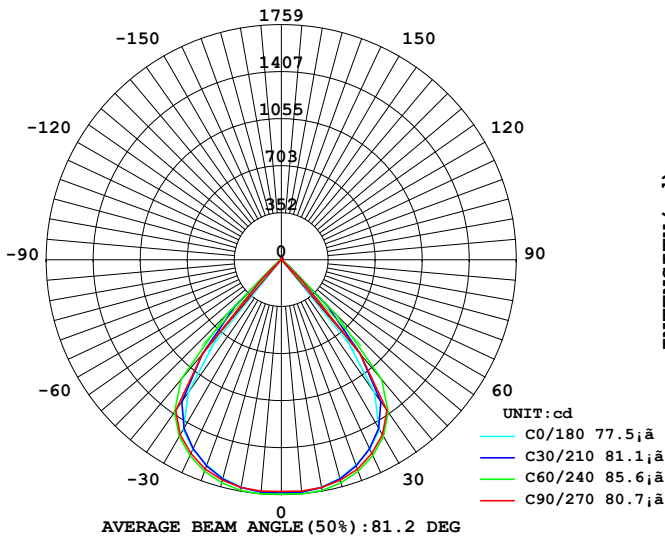
### LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

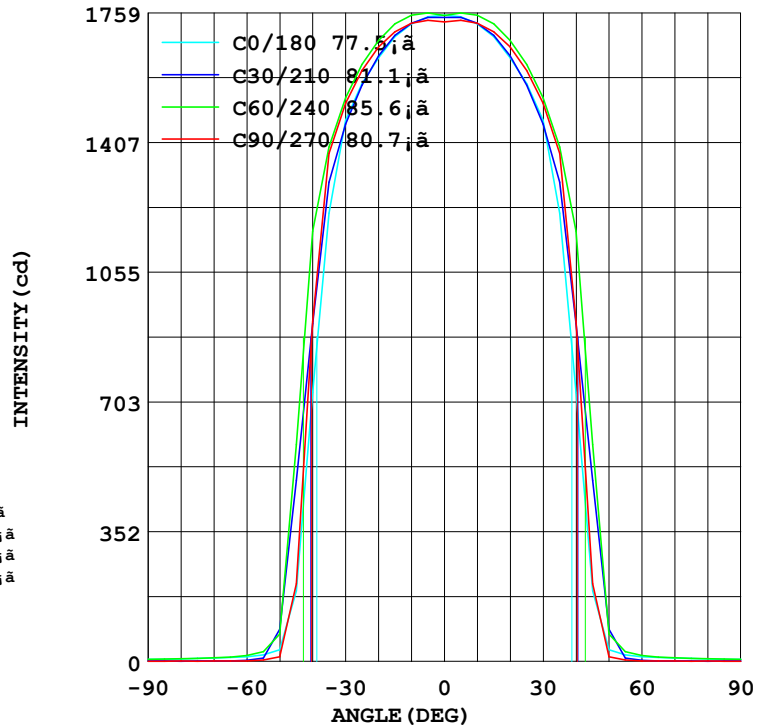
|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

|                   |                |                     |        |                   |       |
|-------------------|----------------|---------------------|--------|-------------------|-------|
| DATA OF LAMP      |                | Imax (cd)           | 1759   | S/MH (C0/180)     | 1.12  |
| MODEL             | 1009-1-2-1-3-2 | EFFICIENCY (%)      | 100.0  | S/MH (C90/270)    | 1.18  |
| NOMINAL POWER (W) | 21             | TOTAL FLUX (lm)     | 2613.4 | Voltage (V)       | 219.3 |
| RATED VOLTAGE (V) | 220            | EFFICIENCY (lm/W)   | 122.0  | Current (A)       | 0.099 |
| NOMINAL FLUX (lm) | 2613.5         | $\eta$ up (%)       | 1.6    | Power (W)         | 21.43 |
| LAMPS QUANTITY    | 1              | $\eta$ down (%)     | 98.4   | Power Factor (PF) | 0.981 |
| TEST VOLTAGE (V)  | 219.4          | Effective Flux (lm) | 2520.1 | EET               | 0.116 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 04-29-2023

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 9.500 m  
 Remarks: 4000k

**Color Temperature Data List**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

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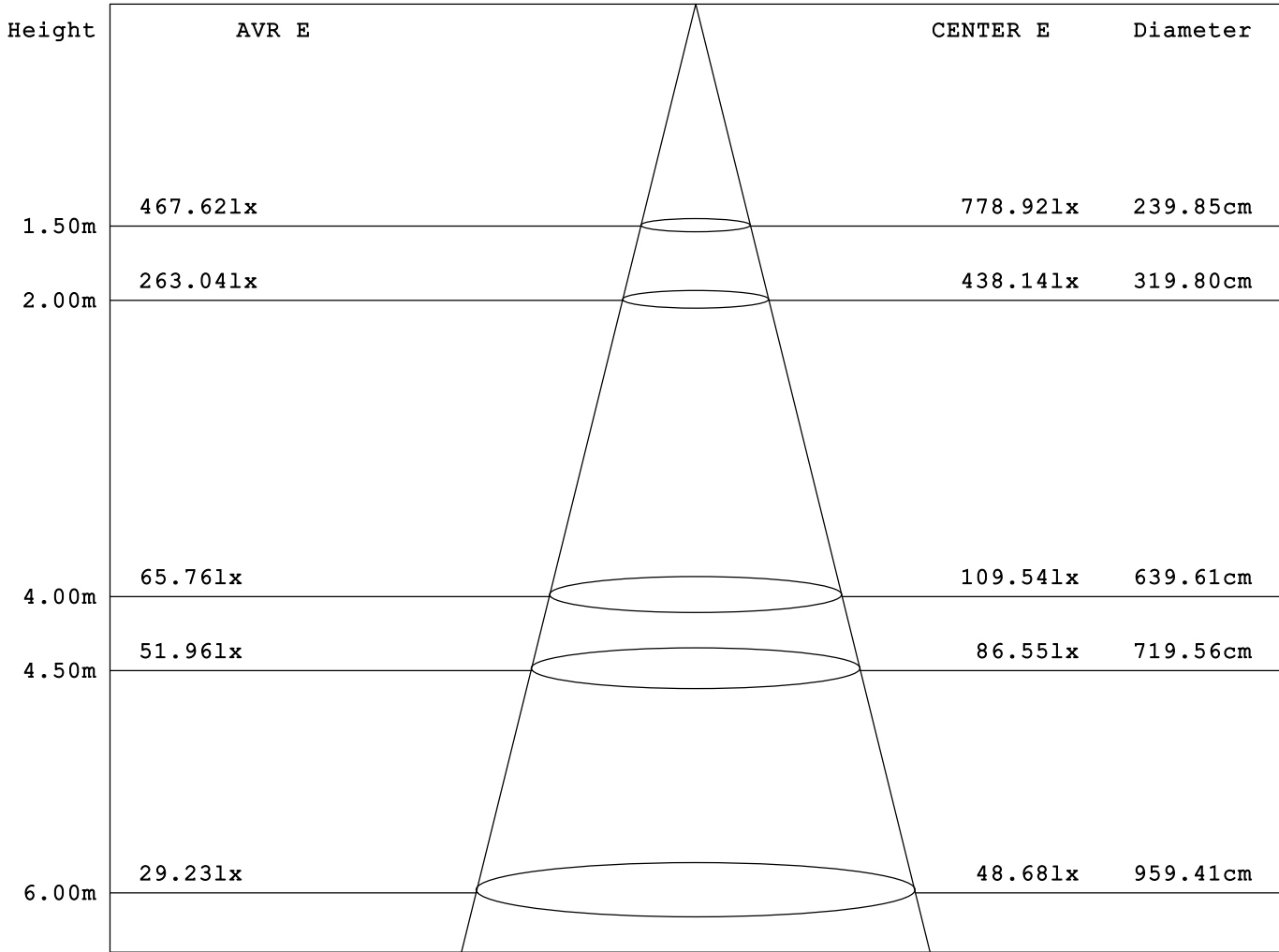
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:9.500 m  
Remarks: 4000k

**AVERAGE AND CENTER E Figure**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |



Angle:77.3deg

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

### ZONAL FLUX DIAGRAM

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

| γ     | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | Zone    | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 10.0  | 1729                  | 1741  | 1730  | 1741  | 1729  | 1741  | 1730  | 1741  | 0- 10   | 166.5   | 166.5 |
| 20.0  | 1637                  | 1663  | 1666  | 1663  | 1637  | 1663  | 1666  | 1663  | 10- 20  | 481.9   | 648.5 |
| 30.0  | 1468                  | 1493  | 1513  | 1493  | 1468  | 1493  | 1513  | 1493  | 20- 30  | 730.4   | 1379  |
| 40.0  | 729.6                 | 1041  | 921.8 | 1041  | 729.6 | 1041  | 921.8 | 1041  | 30- 40  | 799.2   | 2178  |
| 50.0  | 31.94                 | 80.50 | 12.54 | 80.50 | 31.94 | 80.50 | 12.54 | 80.50 | 40- 50  | 356.9   | 2535  |
| 60.0  | 12.99                 | 9.476 | 1.624 | 9.476 | 12.99 | 9.476 | 1.624 | 9.476 | 50- 60  | 22.27   | 2557  |
| 70.0  | 9.025                 | 5.460 | 1.083 | 5.460 | 9.025 | 5.460 | 1.083 | 5.460 | 60- 70  | 6.649   | 2564  |
| 80.0  | 6.768                 | 4.061 | 0.902 | 4.061 | 6.768 | 4.061 | 0.902 | 4.061 | 70- 80  | 4.861   | 2569  |
| 90.0  | 5.595                 | 3.429 | 0.812 | 3.429 | 5.595 | 3.429 | 0.812 | 3.429 | 80- 90  | 3.987   | 2573  |
| 100.0 | 5.415                 | 3.203 | 1.173 | 3.203 | 5.415 | 3.203 | 1.173 | 3.203 | 90-100  | 3.553   | 2576  |
| 110.0 | 6.046                 | 3.474 | 2.346 | 3.474 | 6.046 | 3.474 | 2.346 | 3.474 | 100-110 | 3.610   | 2580  |
| 120.0 | 7.761                 | 4.241 | 4.512 | 4.241 | 7.761 | 4.241 | 4.512 | 4.241 | 110-120 | 4.200   | 2584  |
| 130.0 | 10.01                 | 5.324 | 7.400 | 5.324 | 10.01 | 5.324 | 7.400 | 5.324 | 120-130 | 5.059   | 2589  |
| 140.0 | 12.54                 | 6.543 | 10.64 | 6.543 | 12.54 | 6.543 | 10.64 | 6.543 | 130-140 | 5.687   | 2595  |
| 150.0 | 15.07                 | 7.896 | 13.44 | 7.896 | 15.07 | 7.896 | 13.44 | 7.896 | 140-150 | 5.696   | 2601  |
| 160.0 | 17.77                 | 16.74 | 16.33 | 16.74 | 17.77 | 16.74 | 16.33 | 16.74 | 150-160 | 5.558   | 2606  |
| 170.0 | 20.75                 | 20.17 | 19.49 | 20.17 | 20.75 | 20.17 | 19.49 | 20.17 | 160-170 | 5.231   | 2611  |
| 180.0 | 22.56                 | 21.93 | 22.20 | 21.93 | 22.56 | 21.93 | 22.20 | 21.93 | 170-180 | 1.995   | 2613  |
| DEG   | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |       |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

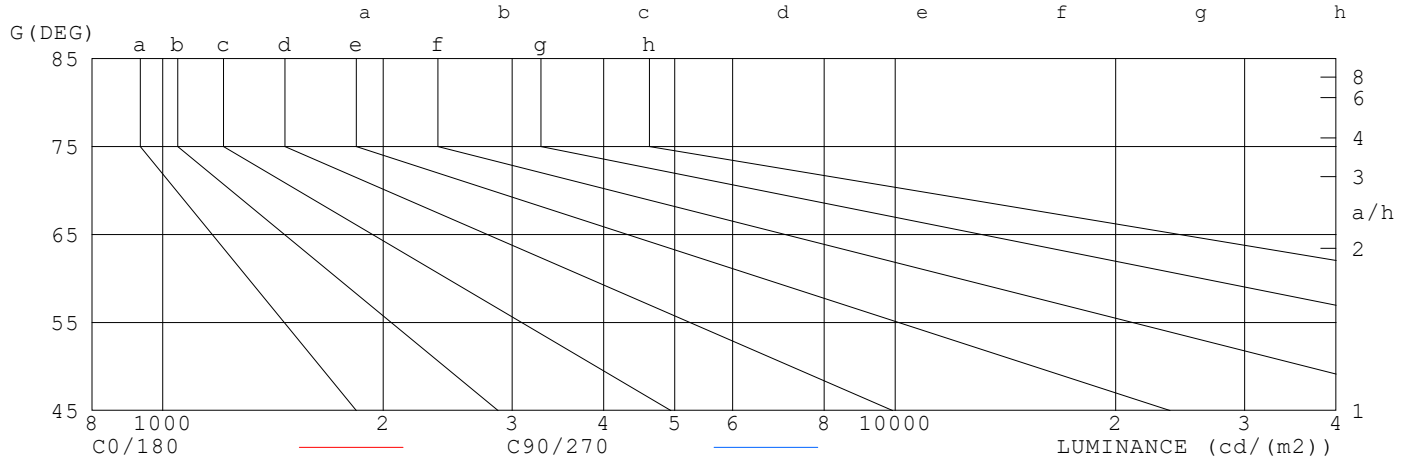
**LUMINANCE LIMITATION CURVES**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

**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      | 694    | 93      |
| 80      | 390    | 52      |
| 75      | 303    | 31      |
| 70      | 264    | 32      |
| 65      | 252    | 32      |
| 60      | 260    | 32      |
| 55      | 315    | 65      |
| 50      | 497    | 195     |
| 45      | 2708   | 2980    |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

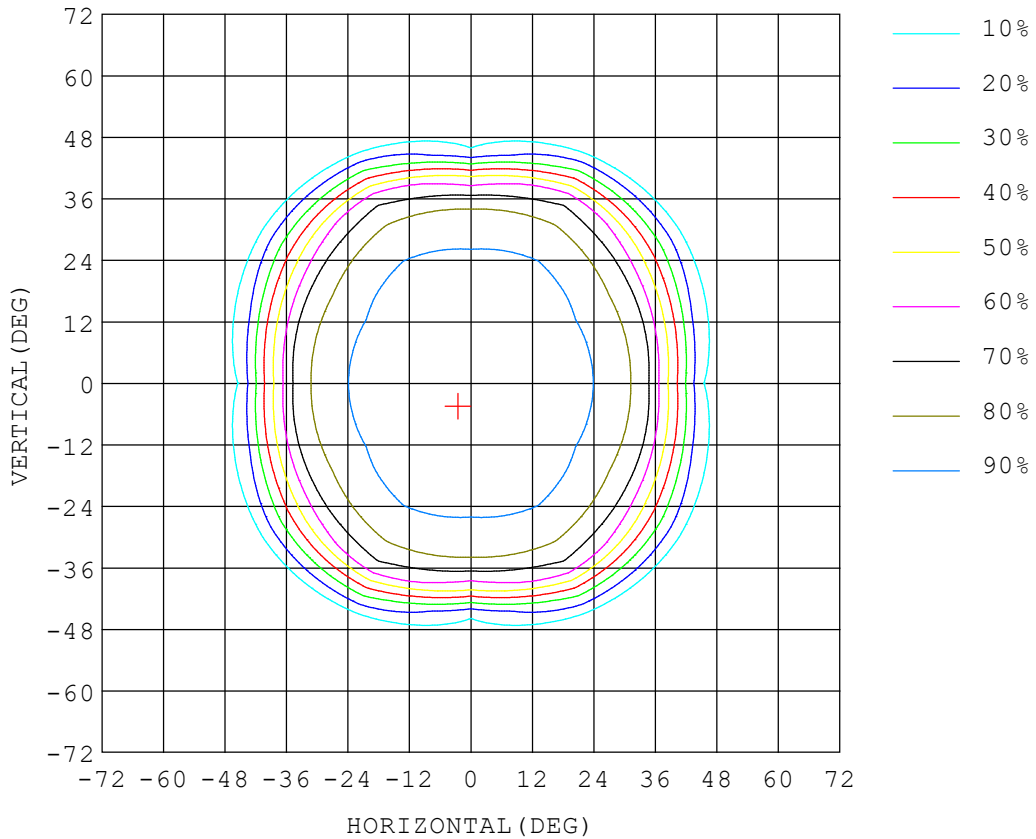
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**ISOCANDELA DIAGRAM**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

UNIT: cd



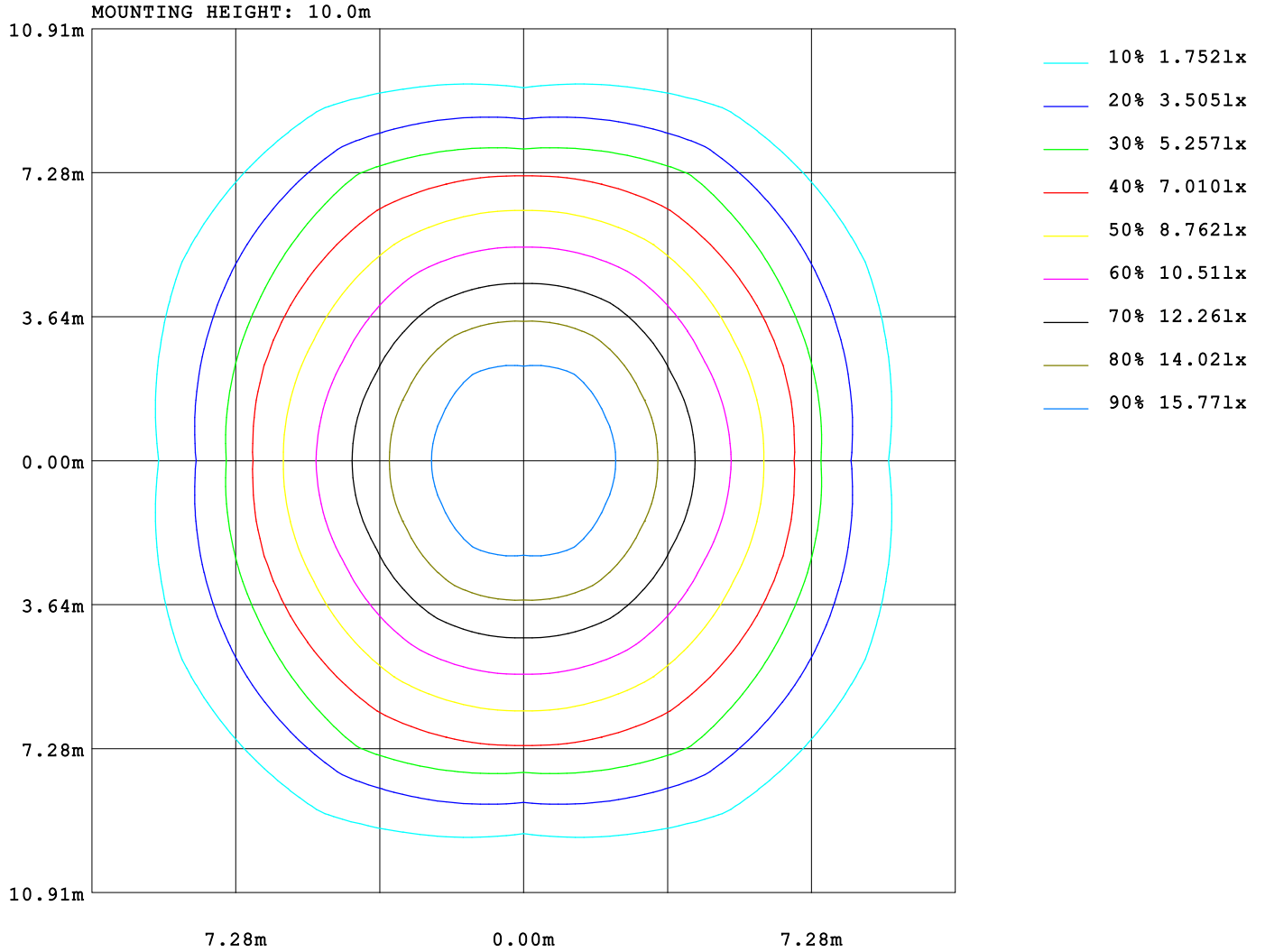
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

### ISOLUX DIAGRAM

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

### AREA LUMINOUS FLUX

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t | Φ a |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|------|------|---------|------|-----|-----|
|                | 0.02              | 0.01 | 0.03 | 0.06 | 0.11 | 0.16 | 0.14 | 0.10 | 0.05             | 0.05 | 0.10 | 0.14 | 0.16 | 0.11 | 0.06 | 0.03 | 0.01 | 0.02 | 1.34    | 0.00 |     |     |
| 72             | 0.02              | 0.01 | 0.03 | 0.06 | 0.11 | 0.16 | 0.14 | 0.10 | 0.05             | 0.05 | 0.10 | 0.14 | 0.16 | 0.11 | 0.06 | 0.03 | 0.01 | 0.02 | 1.34    | 0.00 |     |     |
| 64             | 0.02              | 0.02 | 0.03 | 0.07 | 0.13 | 0.21 | 0.21 | 0.16 | 0.08             | 0.08 | 0.16 | 0.21 | 0.21 | 0.13 | 0.07 | 0.03 | 0.02 | 0.02 | 1.83    | 0.00 |     |     |
| 56             | 0.03              | 0.02 | 0.02 | 0.07 | 0.18 | 0.37 | 0.55 | 0.59 | 0.51             | 0.51 | 0.59 | 0.55 | 0.37 | 0.18 | 0.07 | 0.02 | 0.02 | 0.03 | 4.67    | 0.00 |     |     |
| 48             | 0.03              | 0.03 | 0.03 | 0.11 | 0.48 | 2.11 | 5.87 | 8.42 | 8.69             | 8.69 | 8.42 | 5.87 | 2.11 | 0.48 | 0.11 | 0.03 | 0.03 | 0.03 | 51.5    | 45.6 |     |     |
| 40             | 0.04              | 0.05 | 0.06 | 0.38 | 3.05 | 10.5 | 18.9 | 23.0 | 24.3             | 24.3 | 23.0 | 18.9 | 10.5 | 3.05 | 0.38 | 0.06 | 0.05 | 0.04 | 161     | 158  |     |     |
| 32             | 0.04              | 0.06 | 0.14 | 1.55 | 8.73 | 18.4 | 25.3 | 28.7 | 30.0             | 30.0 | 28.7 | 25.3 | 18.4 | 8.73 | 1.55 | 0.14 | 0.06 | 0.04 | 226     | 224  |     |     |
| 24             | 0.05              | 0.08 | 0.28 | 3.39 | 13.1 | 22.7 | 27.9 | 31.1 | 32.3             | 32.3 | 31.1 | 27.9 | 22.7 | 13.1 | 3.39 | 0.28 | 0.08 | 0.05 | 262     | 260  |     |     |
|                | 0.06              | 0.11 | 0.40 | 4.77 | 16.0 | 24.6 | 29.1 | 32.2 | 33.5             | 33.5 | 32.2 | 29.1 | 24.6 | 16.0 | 4.77 | 0.40 | 0.11 | 0.06 | 282     | 280  |     |     |
|                | 0.07              | 0.12 | 0.45 | 5.12 | 17.2 | 25.6 | 29.8 | 32.5 | 33.9             | 33.9 | 32.5 | 29.8 | 25.6 | 17.2 | 5.12 | 0.45 | 0.12 | 0.07 | 290     | 288  |     |     |
|                | 0.07              | 0.12 | 0.45 | 5.12 | 17.2 | 25.6 | 29.8 | 32.5 | 33.9             | 33.9 | 32.5 | 29.8 | 25.6 | 17.2 | 5.12 | 0.45 | 0.12 | 0.07 | 290     | 288  |     |     |
|                | 0.06              | 0.11 | 0.40 | 4.77 | 16.0 | 24.6 | 29.1 | 32.2 | 33.5             | 33.5 | 32.2 | 29.1 | 24.6 | 16.0 | 4.77 | 0.40 | 0.11 | 0.06 | 282     | 280  |     |     |
| -24            | 0.05              | 0.08 | 0.28 | 3.39 | 13.1 | 22.7 | 27.9 | 31.1 | 32.3             | 32.3 | 31.1 | 27.9 | 22.7 | 13.1 | 3.39 | 0.28 | 0.08 | 0.05 | 262     | 260  |     |     |
| -32            | 0.04              | 0.06 | 0.14 | 1.55 | 8.73 | 18.4 | 25.3 | 28.7 | 30.0             | 30.0 | 28.7 | 25.3 | 18.4 | 8.73 | 1.55 | 0.14 | 0.06 | 0.04 | 226     | 224  |     |     |
| -40            | 0.04              | 0.05 | 0.06 | 0.38 | 3.05 | 10.5 | 18.9 | 23.0 | 24.3             | 24.3 | 23.0 | 18.9 | 10.5 | 3.05 | 0.38 | 0.06 | 0.05 | 0.04 | 161     | 158  |     |     |
| -48            | 0.03              | 0.03 | 0.03 | 0.11 | 0.48 | 2.11 | 5.87 | 8.42 | 8.69             | 8.69 | 8.42 | 5.87 | 2.11 | 0.48 | 0.11 | 0.03 | 0.03 | 0.03 | 51.5    | 45.6 |     |     |
| -56            | 0.03              | 0.02 | 0.02 | 0.07 | 0.18 | 0.37 | 0.55 | 0.59 | 0.51             | 0.51 | 0.59 | 0.55 | 0.37 | 0.18 | 0.07 | 0.02 | 0.02 | 0.03 | 4.67    | 0.00 |     |     |
| -64            | 0.02              | 0.02 | 0.03 | 0.07 | 0.13 | 0.21 | 0.21 | 0.16 | 0.08             | 0.08 | 0.16 | 0.21 | 0.21 | 0.13 | 0.07 | 0.03 | 0.02 | 0.02 | 1.83    | 0.00 |     |     |
| -72            | 0.02              | 0.01 | 0.03 | 0.06 | 0.11 | 0.16 | 0.14 | 0.10 | 0.05             | 0.05 | 0.10 | 0.14 | 0.16 | 0.11 | 0.06 | 0.03 | 0.01 | 0.02 | 1.34    | 0.00 |     |     |
|                | -72               | -64  | -56  | -48  | -40  | -32  | -24  | -16  | HORIZONTAL (DEG) |      |      |      | 16   | 24   | 32   | 40   | 48   | 56   | 64      | 72   |     |     |
| Φ t            | 0.72              | 1.02 | 2.88 | 31.0 | 118  | 210  | 276  | 314  | 327              | 327  | 314  | 276  | 210  | 118  | 31.0 | 2.88 | 1.02 | 0.72 | 2613    |      |     |     |
| Φ a            | 0.00              | 0.00 | 0.00 | 25.3 | 115  | 207  | 273  | 311  | 325              | 325  | 311  | 273  | 207  | 115  | 25.3 | 0.00 | 0.00 | 0.00 |         | 2520 |     |     |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

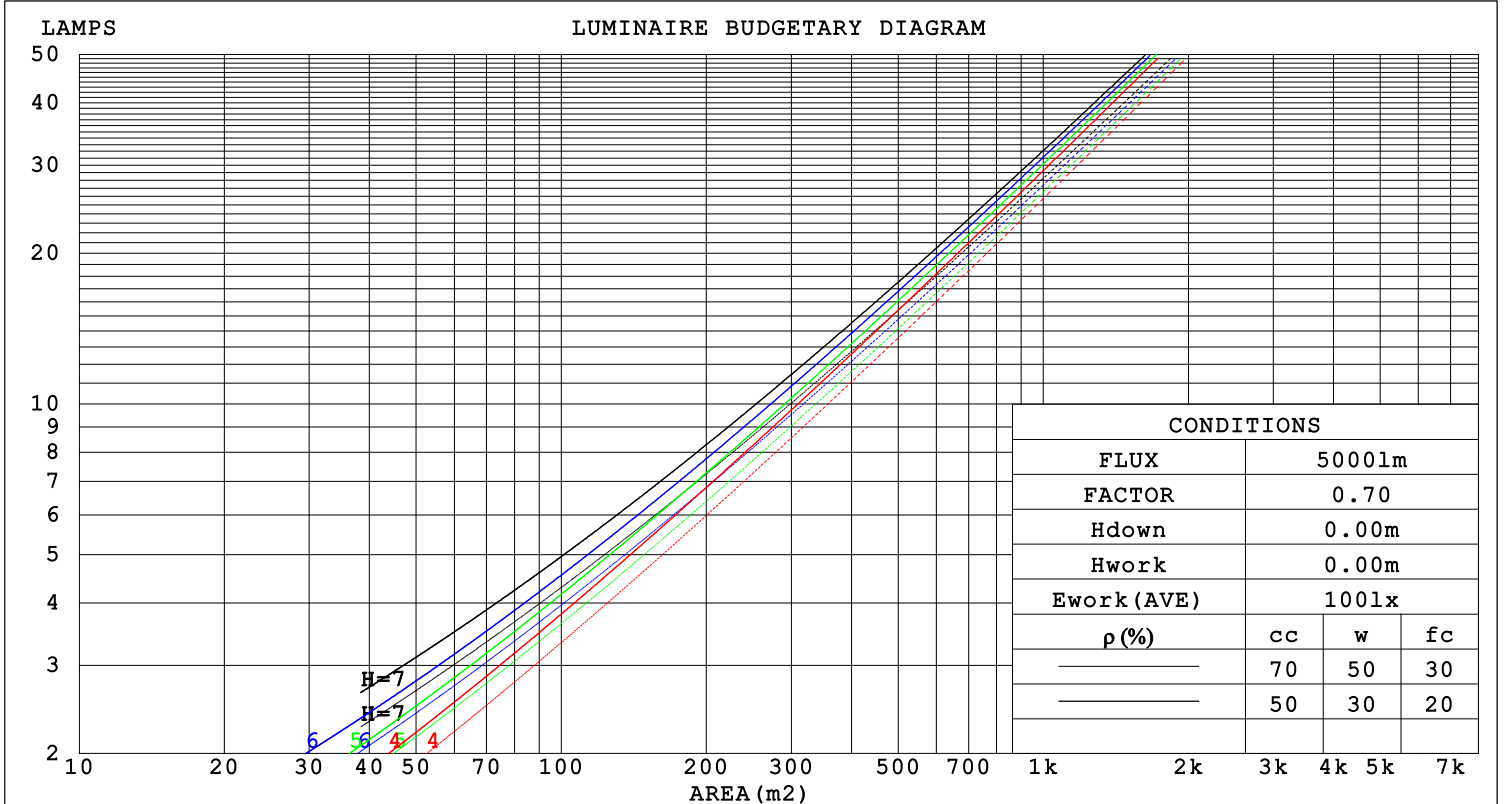


### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

| $\rho_{cc}$ | 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 | 1.10                            | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.01 | 1.01 | 1.01 | .98 |
| 1.0         | 1.09                  | 1.07 | 1.04 | 1.07 | 1.05 | 1.02 | 1.03                            | 1.01 | .99  | .99  | .97  | .96  | .95  | .94  | .93  | .91 |
| 2.0         | 1.01                  | .96  | .92  | .99  | .95  | .91  | .95                             | .92  | .89  | .92  | .89  | .87  | .89  | .87  | .85  | .83 |
| 3.0         | .93                   | .87  | .83  | .91  | .86  | .82  | .88                             | .84  | .80  | .86  | .82  | .79  | .83  | .80  | .77  | .76 |
| 4.0         | .85                   | .79  | .74  | .84  | .78  | .74  | .82                             | .77  | .73  | .79  | .75  | .72  | .77  | .74  | .71  | .69 |
| 5.0         | .79                   | .72  | .67  | .78  | .72  | .67  | .76                             | .70  | .66  | .74  | .69  | .66  | .72  | .68  | .65  | .63 |
| 6.0         | .73                   | .66  | .61  | .72  | .66  | .61  | .70                             | .65  | .61  | .69  | .64  | .60  | .67  | .63  | .59  | .58 |
| 7.0         | .68                   | .61  | .56  | .67  | .60  | .56  | .65                             | .60  | .56  | .64  | .59  | .55  | .63  | .58  | .55  | .53 |
| 8.0         | .63                   | .56  | .52  | .62  | .56  | .51  | .61                             | .55  | .51  | .60  | .55  | .51  | .59  | .54  | .50  | .49 |
| 9.0         | .59                   | .52  | .47  | .58  | .52  | .47  | .57                             | .51  | .47  | .56  | .51  | .47  | .55  | .50  | .47  | .45 |
| 10.0        | .55                   | .48  | .44  | .54  | .48  | .44  | .53                             | .47  | .44  | .52  | .47  | .43  | .51  | .47  | .43  | .42 |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**WEC AND CCEC**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

| $\rho_{cc}$ | 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 |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0         | .197                  | .112 | .035 | .190 | .108 | .034 | .176                            | .101 | .032 | .164 | .094 | .030 | .152 | .088 | .028 |   |
| 2.0         | .190                  | .104 | .032 | .184 | .101 | .031 | .173                            | .096 | .030 | .162 | .091 | .028 | .152 | .086 | .027 |   |
| 3.0         | .182                  | .097 | .029 | .177 | .095 | .029 | .167                            | .091 | .028 | .158 | .086 | .027 | .149 | .083 | .026 |   |
| 4.0         | .174                  | .091 | .027 | .170 | .089 | .026 | .161                            | .085 | .025 | .153 | .082 | .025 | .145 | .079 | .024 |   |
| 5.0         | .167                  | .085 | .025 | .163 | .083 | .024 | .155                            | .081 | .024 | .148 | .078 | .023 | .141 | .075 | .023 |   |
| 6.0         | .159                  | .080 | .023 | .156 | .079 | .023 | .149                            | .076 | .022 | .142 | .074 | .022 | .136 | .072 | .021 |   |
| 7.0         | .152                  | .075 | .021 | .149 | .074 | .021 | .143                            | .072 | .021 | .137 | .070 | .020 | .131 | .068 | .020 |   |
| 8.0         | .146                  | .071 | .020 | .143 | .070 | .020 | .137                            | .068 | .020 | .132 | .067 | .019 | .127 | .065 | .019 |   |
| 9.0         | .139                  | .067 | .019 | .137 | .067 | .019 | .132                            | .065 | .018 | .127 | .064 | .018 | .122 | .062 | .018 |   |
| 10.0        | .133                  | .064 | .018 | .131 | .063 | .018 | .126                            | .062 | .017 | .122 | .061 | .017 | .118 | .059 | .017 |   |

| $\rho_{cc}$ | 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 |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .202                  | .202 | .202 | .173 | .173 | .173 | .118                                       | .118 | .118 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0         | .184                  | .169 | .155 | .158 | .145 | .134 | .108                                       | .100 | .092 | .062 | .058 | .054 | .020 | .019 | .017 |   |
| 2.0         | .171                  | .144 | .122 | .146 | .124 | .106 | .100                                       | .086 | .074 | .058 | .050 | .043 | .019 | .016 | .014 |   |
| 3.0         | .160                  | .126 | .099 | .137 | .109 | .086 | .094                                       | .075 | .060 | .054 | .044 | .035 | .017 | .014 | .012 |   |
| 4.0         | .151                  | .111 | .082 | .129 | .096 | .071 | .089                                       | .067 | .050 | .051 | .039 | .030 | .017 | .013 | .010 |   |
| 5.0         | .143                  | .100 | .069 | .123 | .087 | .060 | .084                                       | .061 | .042 | .049 | .036 | .025 | .016 | .012 | .008 |   |
| 6.0         | .136                  | .091 | .059 | .117 | .079 | .052 | .081                                       | .055 | .036 | .047 | .033 | .022 | .015 | .011 | .007 |   |
| 7.0         | .130                  | .084 | .052 | .112 | .073 | .045 | .077                                       | .051 | .032 | .045 | .030 | .019 | .015 | .010 | .006 |   |
| 8.0         | .125                  | .078 | .046 | .107 | .068 | .040 | .074                                       | .048 | .028 | .043 | .028 | .017 | .014 | .009 | .006 |   |
| 9.0         | .120                  | .073 | .042 | .103 | .063 | .036 | .071                                       | .045 | .026 | .042 | .026 | .015 | .013 | .009 | .005 |   |
| 10.0        | .115                  | .069 | .038 | .099 | .060 | .033 | .069                                       | .042 | .024 | .040 | .025 | .014 | .013 | .008 | .005 |   |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**Uncorrected UGR Table**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | 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 | 14.7             | 15.8 | 15.0 | 16.0 | 16.2 | 15.7           | 16.7 | 15.9 | 16.9 | 17.1 |
|                 | 3H     | 14.5             | 15.5 | 14.8 | 15.7 | 16.0 | 15.5           | 16.5 | 15.8 | 16.7 | 16.9 |
|                 | 4H     | 14.4             | 15.4 | 14.7 | 15.6 | 15.9 | 15.4           | 16.3 | 15.7 | 16.6 | 16.8 |
|                 | 6H     | 14.3             | 15.2 | 14.7 | 15.5 | 15.8 | 15.3           | 16.2 | 15.6 | 16.4 | 16.7 |
|                 | 8H     | 14.3             | 15.1 | 14.7 | 15.4 | 15.7 | 15.2           | 16.1 | 15.6 | 16.4 | 16.7 |
|                 | 12H    | 14.3             | 15.1 | 14.6 | 15.4 | 15.7 | 15.2           | 16.0 | 15.5 | 16.3 | 16.6 |
| 4H              | 2H     | 14.4             | 15.3 | 14.7 | 15.6 | 15.9 | 15.4           | 16.3 | 15.7 | 16.6 | 16.8 |
|                 | 3H     | 14.2             | 15.0 | 14.6 | 15.3 | 15.6 | 15.2           | 16.0 | 15.6 | 16.3 | 16.6 |
|                 | 4H     | 14.1             | 14.9 | 14.5 | 15.2 | 15.5 | 15.1           | 15.8 | 15.5 | 16.1 | 16.5 |
|                 | 6H     | 14.1             | 14.7 | 14.5 | 15.0 | 15.4 | 15.0           | 15.6 | 15.4 | 16.0 | 16.4 |
|                 | 8H     | 14.0             | 14.6 | 14.5 | 15.0 | 15.4 | 15.0           | 15.5 | 15.4 | 15.9 | 16.3 |
|                 | 12H    | 14.0             | 14.5 | 14.4 | 14.9 | 15.4 | 14.9           | 15.4 | 15.4 | 15.8 | 16.3 |
| 8H              | 4H     | 14.0             | 14.6 | 14.4 | 15.0 | 15.4 | 15.0           | 15.5 | 15.4 | 15.9 | 16.3 |
|                 | 6H     | 13.9             | 14.4 | 14.4 | 14.8 | 15.3 | 14.9           | 15.3 | 15.3 | 15.8 | 16.2 |
|                 | 8H     | 13.9             | 14.3 | 14.4 | 14.7 | 15.2 | 14.8           | 15.3 | 15.3 | 15.7 | 16.2 |
|                 | 12H    | 13.9             | 14.2 | 14.4 | 14.7 | 15.2 | 14.8           | 15.2 | 15.3 | 15.6 | 16.1 |
| 12H             | 4H     | 14.0             | 14.5 | 14.4 | 14.9 | 15.3 | 14.9           | 15.4 | 15.4 | 15.8 | 16.3 |
|                 | 6H     | 13.9             | 14.3 | 14.3 | 14.7 | 15.2 | 14.8           | 15.2 | 15.3 | 15.7 | 16.2 |
|                 | 8H     | 13.8             | 14.2 | 14.3 | 14.7 | 15.2 | 14.8           | 15.1 | 15.3 | 15.6 | 16.1 |

|  |               |               |
|--|---------------|---------------|
| Variations with the observer position at spacings: |               |               |
| S = 1.0H   | + 2.6 / -14.5 | + 2.5 / -15.3 |
| 1.5H   | + 5.0 / -14.9 | + 5.2 / -15.6 |
| 2.0H   | + 7.9 / - 4.8 | + 8.6 / - 3.9 |

CIE Pub.117 Corrected 2613 lm Total Lamp Luminous Flux. (8log(F/F0) = 3.3)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**UTILIZATION FACTORS TABLE**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | 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                         | 81   | 74  | 69        | 80  | 74  | 69  | 80            | 73  | 69  | 65     |
| 0.80                             | 90   | 83  | 78        | 89  | 82  | 78  | 87            | 82  | 78  | 73     |
| 1.00                             | 95   | 89  | 85        | 94  | 88  | 84  | 92            | 88  | 84  | 79     |
| 1.25                             | 100  | 94  | 90        | 99  | 93  | 90  | 97            | 92  | 89  | 84     |
| 1.50                             | 103  | 98  | 94        | 102 | 97  | 93  | 99            | 95  | 92  | 87     |
| 2.00                             | 106  | 102 | 98        | 105 | 101 | 97  | 102           | 98  | 96  | 90     |
| 2.50                             | 108  | 104 | 101       | 107 | 103 | 100 | 103           | 100 | 98  | 91     |
| 3.00                             | 110  | 106 | 103       | 108 | 105 | 102 | 105           | 102 | 100 | 93     |
| 4.00                             | 112  | 109 | 107       | 110 | 107 | 105 | 106           | 104 | 102 | 94     |
| 5.00                             | 114  | 111 | 109       | 111 | 109 | 107 | 107           | 105 | 104 | 95     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

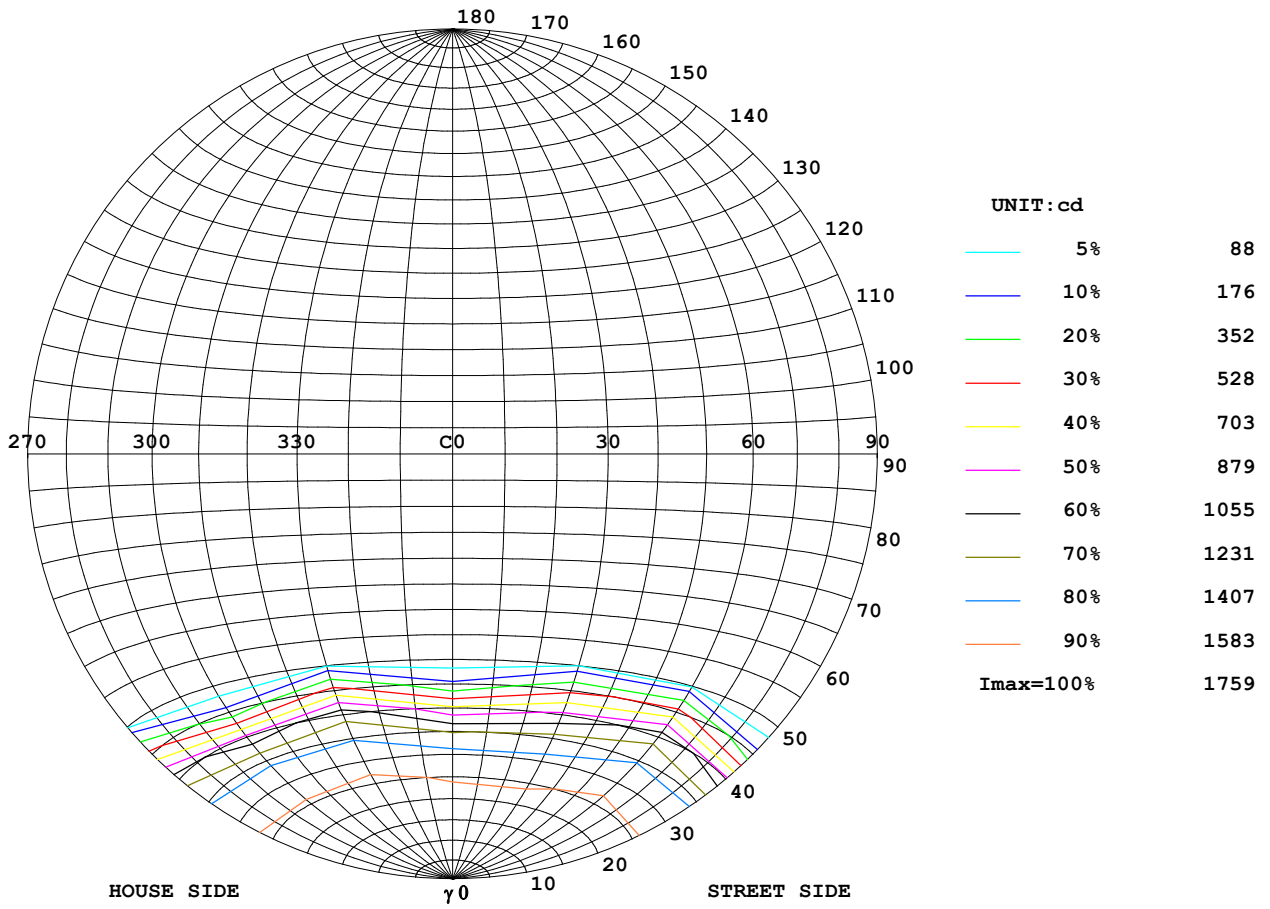
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**ISOCANDELA DIAGRAM**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

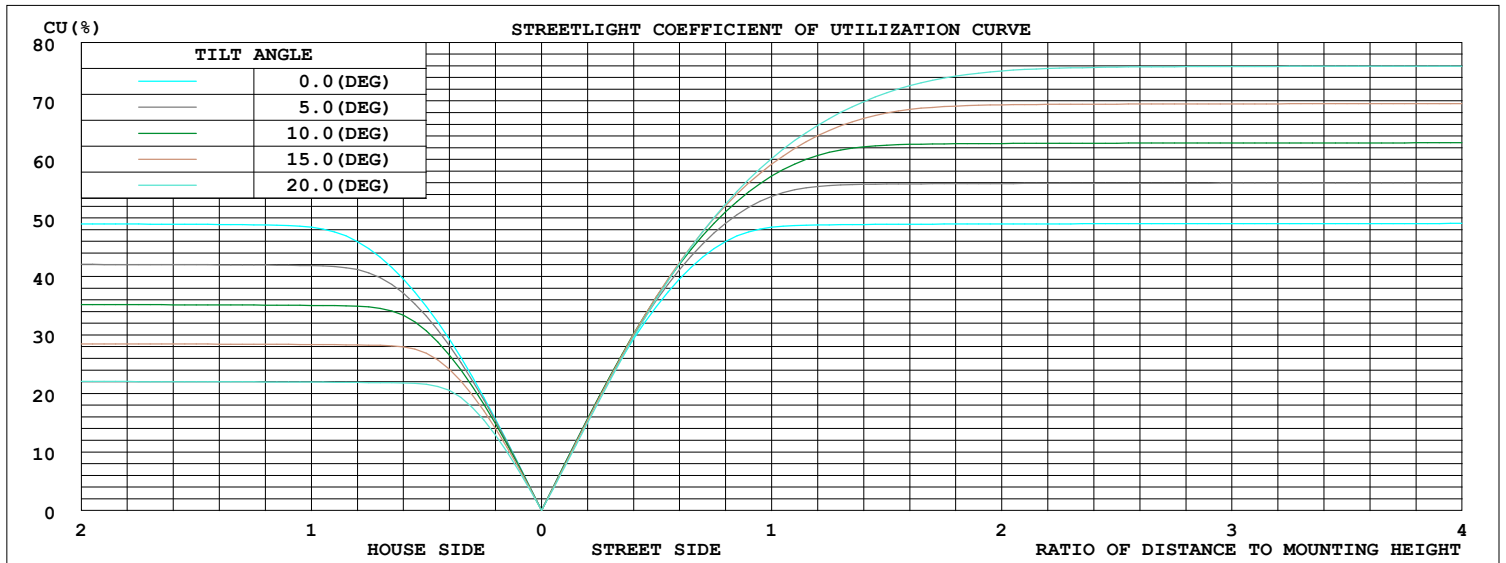
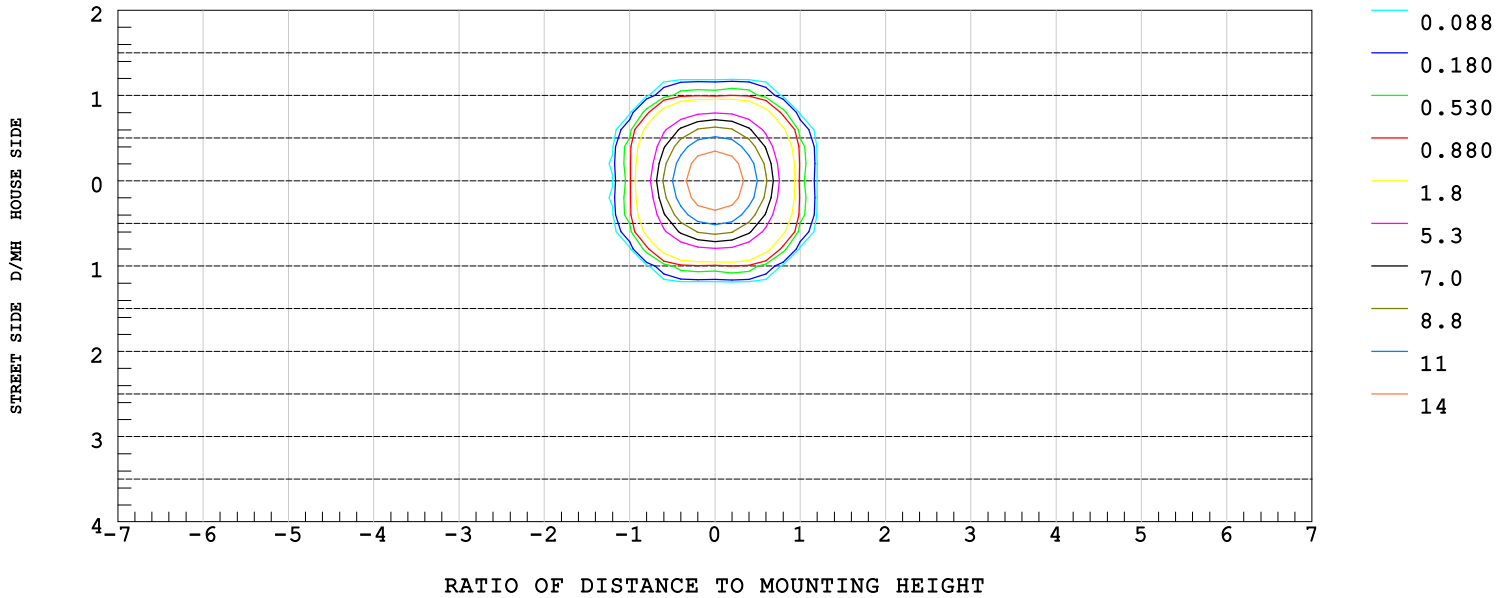
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

### ISOLUX DIAGRAM

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |

ILLUMINANCE AT MH=10 m, Enadir = 17.53 lx



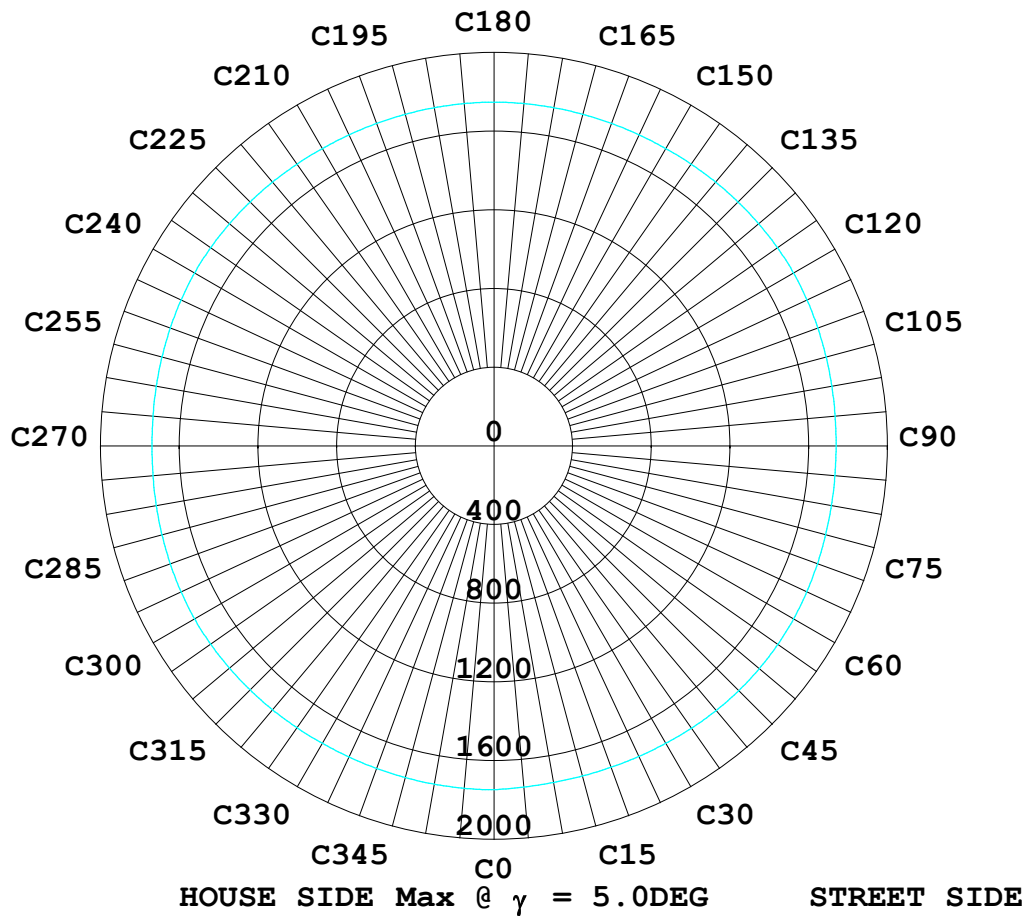
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**ISOCANDELA DIAGRAM**

Report number:

|  |                       |             |
|--|-----------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                       |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                       |             |
| NAME: 1009-1-2-3-2-3   | TYPE: .5W 4K CRI 90   | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*50*90 | SERIAL No.: |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

|   |                              |                    |
|---|------------------------------|--------------------|
| <b>MANUFACTURER: DIVINITY LIGHTS</b>  |                              |                    |
| <b>Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005</b> |                              |                    |
| <b>NAME: 1009-1-2-3-2-3</b>   | <b>TYPE: .5W 4K CRI 90</b>   | <b>WEIGHT:</b>     |
| <b>SPECIFICATION:</b>   | <b>DIMENSION: 1200*50*90</b> | <b>SERIAL No.:</b> |

UNIT: cd

| γ (DEG) | C (DEG) |      |      |      |      |      |      |      |      |      |      |      |
|---------|---------|------|------|------|------|------|------|------|------|------|------|------|
|         | 0       | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |
| 0.0     | 1753    | 1746 | 1752 | 1734 | 1752 | 1746 | 1753 | 1746 | 1752 | 1734 | 1752 | 1746 |
| 5.0     | 1748    | 1746 | 1759 | 1738 | 1759 | 1746 | 1748 | 1746 | 1759 | 1738 | 1759 | 1746 |
| 10.0    | 1729    | 1730 | 1752 | 1730 | 1752 | 1730 | 1729 | 1730 | 1752 | 1730 | 1752 | 1730 |
| 15.0    | 1694    | 1698 | 1728 | 1707 | 1728 | 1698 | 1694 | 1698 | 1728 | 1707 | 1728 | 1698 |
| 20.0    | 1637    | 1642 | 1684 | 1666 | 1684 | 1642 | 1637 | 1642 | 1684 | 1666 | 1684 | 1642 |
| 25.0    | 1567    | 1562 | 1619 | 1602 | 1619 | 1562 | 1567 | 1562 | 1619 | 1602 | 1619 | 1562 |
| 30.0    | 1468    | 1457 | 1529 | 1513 | 1529 | 1457 | 1468 | 1457 | 1529 | 1513 | 1529 | 1457 |
| 35.0    | 1215    | 1299 | 1395 | 1377 | 1395 | 1299 | 1215 | 1299 | 1395 | 1377 | 1395 | 1299 |
| 40.0    | 730     | 916  | 1167 | 922  | 1167 | 916  | 730  | 916  | 1167 | 922  | 1167 | 916  |
| 45.0    | 192     | 490  | 588  | 211  | 588  | 490  | 192  | 490  | 588  | 211  | 588  | 490  |
| 50.0    | 31.9    | 87.0 | 74.0 | 12.5 | 74.0 | 87.0 | 31.9 | 87.0 | 74.0 | 12.5 | 74.0 | 87.0 |
| 55.0    | 18.0    | 9.29 | 26.4 | 3.70 | 26.4 | 9.29 | 18.0 | 9.29 | 26.4 | 3.70 | 26.4 | 9.29 |
| 60.0    | 12.9    | 2.97 | 15.9 | 1.62 | 15.9 | 2.97 | 12.9 | 2.97 | 15.9 | 1.62 | 15.9 | 2.97 |
| 65.0    | 10.6    | 1.44 | 11.7 | 1.35 | 11.7 | 1.44 | 10.6 | 1.44 | 11.7 | 1.35 | 11.7 | 1.44 |
| 70.0    | 9.02    | 1.17 | 9.74 | 1.08 | 9.74 | 1.17 | 9.02 | 1.17 | 9.74 | 1.08 | 9.74 | 1.17 |
| 75.0    | 7.85    | 0.90 | 8.39 | 0.81 | 8.39 | 0.90 | 7.85 | 0.90 | 8.39 | 0.81 | 8.39 | 0.90 |
| 80.0    | 6.76    | 0.81 | 7.31 | 0.90 | 7.31 | 0.81 | 6.76 | 0.81 | 7.31 | 0.90 | 7.31 | 0.81 |
| 85.0    | 6.04    | 0.90 | 6.58 | 0.81 | 6.58 | 0.90 | 6.04 | 0.90 | 6.58 | 0.81 | 6.58 | 0.90 |
| 90.0    | 5.59    | 0.90 | 5.95 | 0.81 | 5.95 | 0.90 | 5.59 | 0.90 | 5.95 | 0.81 | 5.95 | 0.90 |
| 95.0    | 5.50    | 1.17 | 5.23 | 0.99 | 5.23 | 1.17 | 5.50 | 1.17 | 5.23 | 0.99 | 5.23 | 1.17 |
| 100.0   | 5.41    | 1.53 | 4.87 | 1.17 | 4.87 | 1.53 | 5.41 | 1.53 | 4.87 | 1.17 | 4.87 | 1.53 |
| 105.0   | 5.50    | 2.07 | 4.42 | 1.62 | 4.42 | 2.07 | 5.50 | 2.07 | 4.42 | 1.62 | 4.42 | 2.07 |
| 110.0   | 6.04    | 2.79 | 4.15 | 2.34 | 4.15 | 2.79 | 6.04 | 2.79 | 4.15 | 2.34 | 4.15 | 2.79 |
| 115.0   | 6.85    | 3.70 | 3.79 | 3.24 | 3.79 | 3.70 | 6.85 | 3.70 | 3.79 | 3.24 | 3.79 | 3.70 |
| 120.0   | 7.76    | 4.87 | 3.61 | 4.51 | 3.61 | 4.87 | 7.76 | 4.87 | 3.61 | 4.51 | 3.61 | 4.87 |
| 125.0   | 8.84    | 6.22 | 3.33 | 5.86 | 3.33 | 6.22 | 8.84 | 6.22 | 3.33 | 5.86 | 3.33 | 6.22 |
| 130.0   | 10.0    | 7.49 | 3.15 | 7.40 | 3.15 | 7.49 | 10.0 | 7.49 | 3.15 | 7.40 | 3.15 | 7.49 |
| 135.0   | 11.3    | 8.93 | 2.97 | 9.11 | 2.97 | 8.93 | 11.3 | 8.93 | 2.97 | 9.11 | 2.97 | 8.93 |
| 140.0   | 12.5    | 10.2 | 2.79 | 10.6 | 2.79 | 10.2 | 12.5 | 10.2 | 2.79 | 10.6 | 2.79 | 10.2 |
| 145.0   | 13.7    | 11.7 | 2.61 | 12.0 | 2.61 | 11.7 | 13.7 | 11.7 | 2.61 | 12.0 | 2.61 | 11.7 |
| 150.0   | 15.0    | 13.1 | 2.61 | 13.4 | 2.61 | 13.1 | 15.0 | 13.1 | 2.61 | 13.4 | 2.61 | 13.1 |
| 155.0   | 16.3    | 14.6 | 2.52 | 14.8 | 2.52 | 14.6 | 16.3 | 14.6 | 2.52 | 14.8 | 2.52 | 14.6 |
| 160.0   | 17.7    | 16.2 | 17.2 | 16.3 | 17.2 | 16.2 | 17.7 | 16.2 | 17.2 | 16.3 | 17.2 | 16.2 |
| 165.0   | 19.2    | 17.8 | 19.5 | 17.9 | 19.5 | 17.8 | 19.2 | 17.8 | 19.5 | 17.9 | 19.5 | 17.8 |
| 170.0   | 20.7    | 19.4 | 20.9 | 19.4 | 20.9 | 19.4 | 20.7 | 19.4 | 20.9 | 19.4 | 20.9 | 19.4 |
| 175.0   | 21.8    | 20.6 | 21.3 | 21.0 | 21.3 | 20.6 | 21.8 | 20.6 | 21.3 | 21.0 | 21.3 | 20.6 |
| 180.0   | 22.5    | 21.6 | 22.2 | 22.2 | 22.2 | 21.6 | 22.5 | 21.6 | 22.2 | 22.2 | 22.2 | 21.6 |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:04-29-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 4000k