

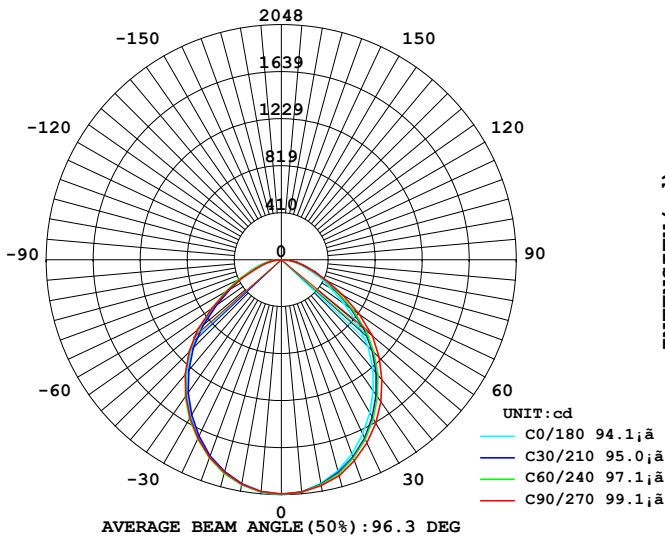
### LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

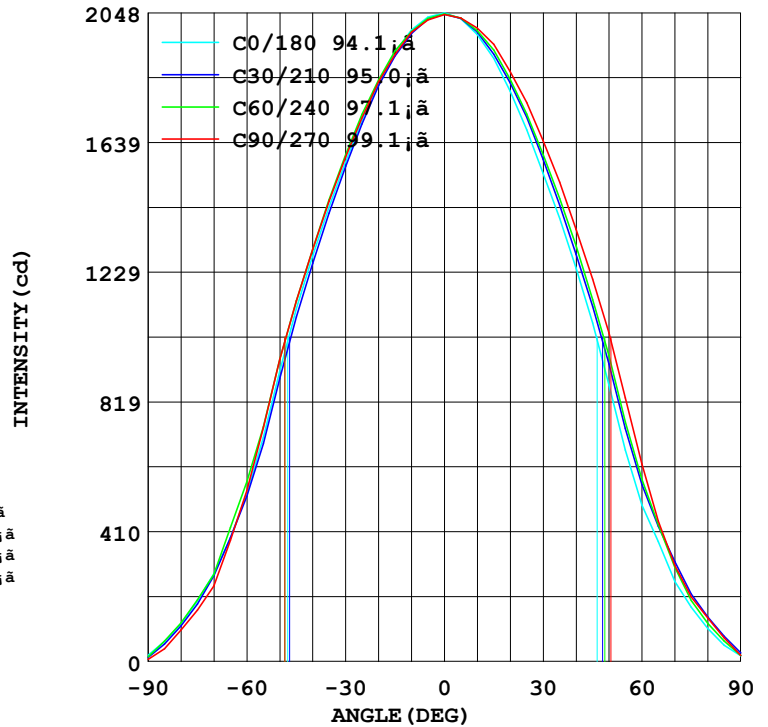
|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |

|                   |              |                     |        |                   |       |
|-------------------|--------------|---------------------|--------|-------------------|-------|
| DATA OF LAMP      |              | Imax (cd)           | 2048   | S/MH (C0/180)     | 1.16  |
| MODEL             | 1030-1-2-1-2 | EFFICIENCY (%)      | 100.0  | S/MH (C90/270)    | 1.17  |
| NOMINAL POWER (W) | 40           | TOTAL FLUX (lm)     | 4640.8 | Voltage (V)       | 219.3 |
| RATED VOLTAGE (V) | 220          | EFFICIENCY (lm/W)   | 114.8  | Current (A)       | 0.186 |
| NOMINAL FLUX (lm) | 4640.8       | $\eta$ up (%)       | 0.0    | Power (W)         | 40.43 |
| LAMPS QUANTITY    | 1            | $\eta$ down (%)     | 100.0  | Power Factor (PF) | 0.990 |
| TEST VOLTAGE (V)  | 219.4        | Effective Flux (lm) | 4477.1 | EET               | 0.123 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System: HOPOO HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 06-14-2023

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 9.500 m  
 Remarks: 3000K

**Color Temperature Data List**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |

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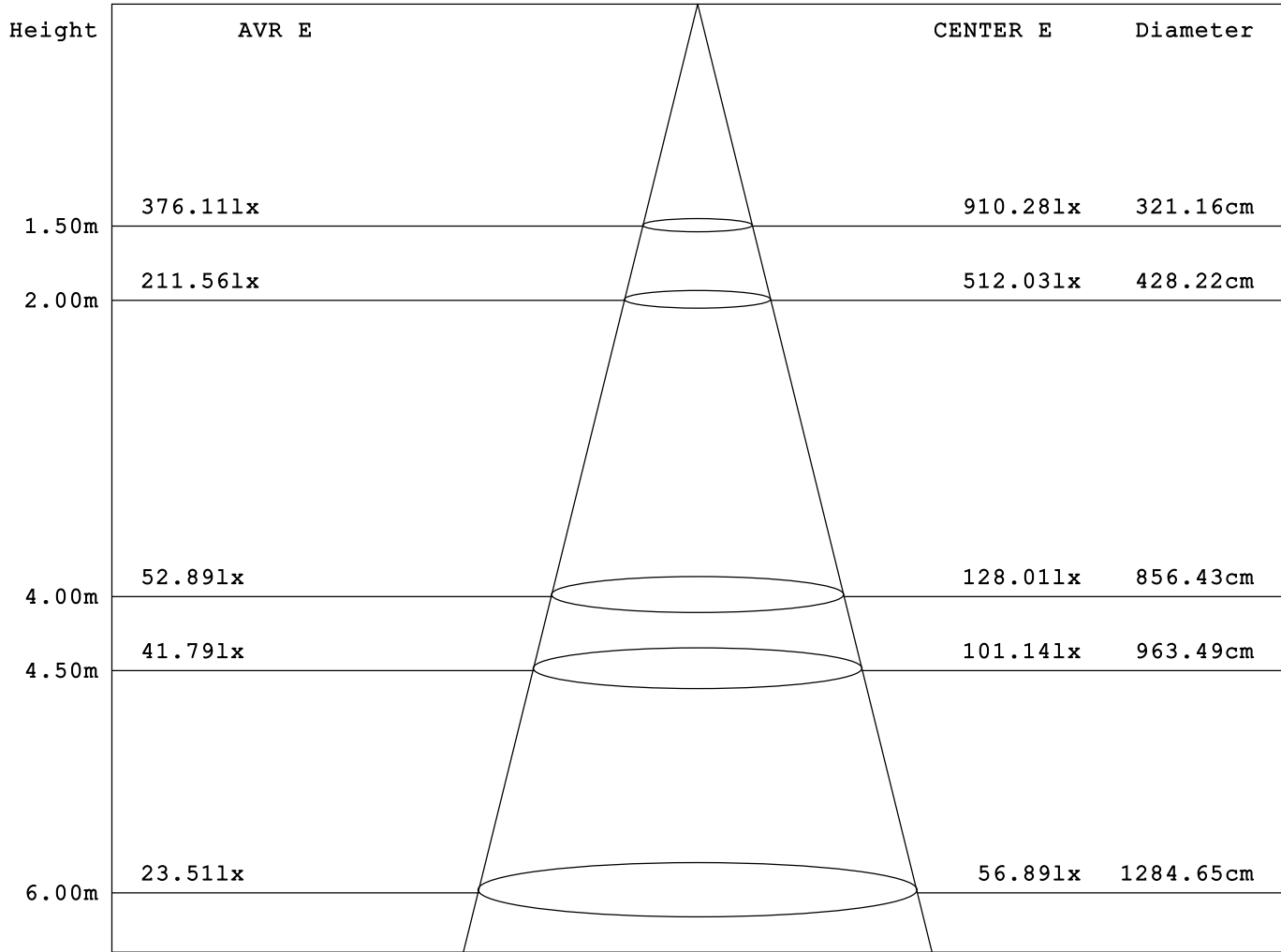
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:9.500 m  
Remarks: 3000K

**AVERAGE AND CENTER E Figure**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |



Angle: 93.9deg

Test System: HOPOO HPG1800  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 9.500 m  
 Remarks: 3000K

### ZONAL FLUX DIAGRAM

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |

| γ     | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | Zone    | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 10.0  | 1994                  | 1986  | 1987  | 1970  | 1980  | 1990  | 2000  | 1998  | 0- 10   | 192.3   | 192.3 |
| 20.0  | 1826                  | 1827  | 1830  | 1801  | 1801  | 1833  | 1863  | 1854  | 10- 20  | 540.9   | 733.3 |
| 30.0  | 1578                  | 1581  | 1593  | 1550  | 1542  | 1594  | 1645  | 1620  | 20- 30  | 790.1   | 1523  |
| 40.0  | 1280                  | 1279  | 1301  | 1247  | 1242  | 1299  | 1364  | 1328  | 30- 40  | 903.0   | 2427  |
| 50.0  | 915.7                 | 922.9 | 953.2 | 889.4 | 872.9 | 951.9 | 1038  | 983.4 | 40- 50  | 864.4   | 3291  |
| 60.0  | 530.8                 | 543.3 | 537.6 | 522.4 | 493.7 | 566.1 | 623.1 | 589.3 | 50- 60  | 660.6   | 3952  |
| 70.0  | 276.4                 | 272.3 | 238.3 | 261.3 | 251.8 | 305.6 | 302.7 | 319.8 | 60- 70  | 410.4   | 4362  |
| 80.0  | 119.1                 | 116.0 | 98.37 | 108.9 | 103.7 | 129.8 | 136.5 | 137.3 | 70- 80  | 207.0   | 4569  |
| 90.0  | 20.12                 | 13.58 | 6.588 | 10.78 | 17.95 | 23.05 | 18.95 | 27.57 | 80- 90  | 71.73   | 4641  |
| 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:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

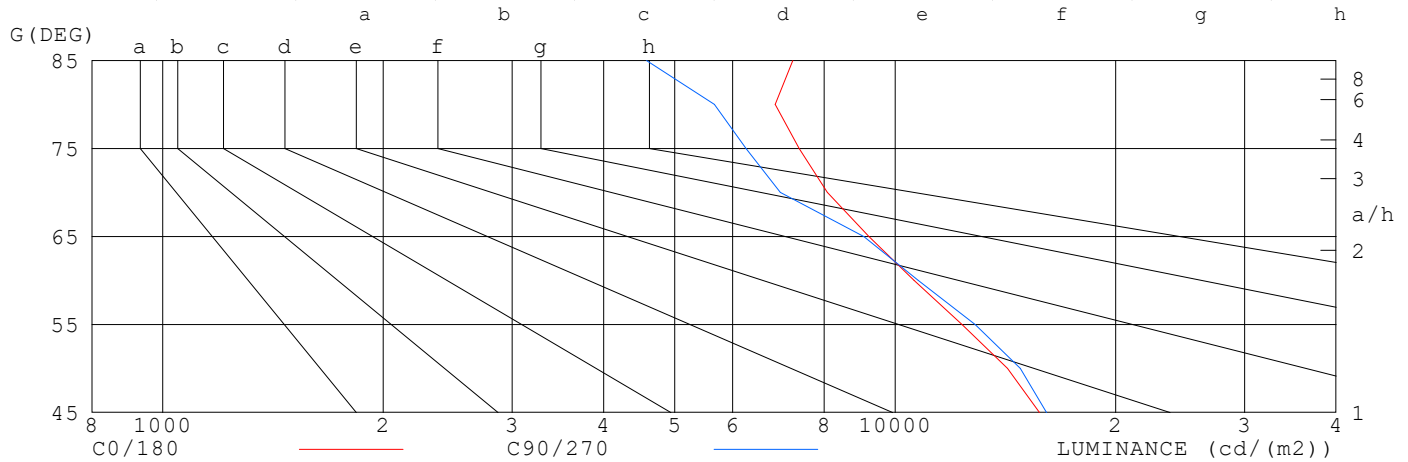
**LUMINANCE LIMITATION CURVES**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | 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      | 7249   | 4577    |
| 80      | 6860   | 5665    |
| 75      | 7399   | 6259    |
| 70      | 8082   | 6969    |
| 65      | 9213   | 9061    |
| 60      | 10617  | 10752   |
| 55      | 12344  | 12868   |
| 50      | 14247  | 14829   |
| 45      | 15747  | 16100   |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

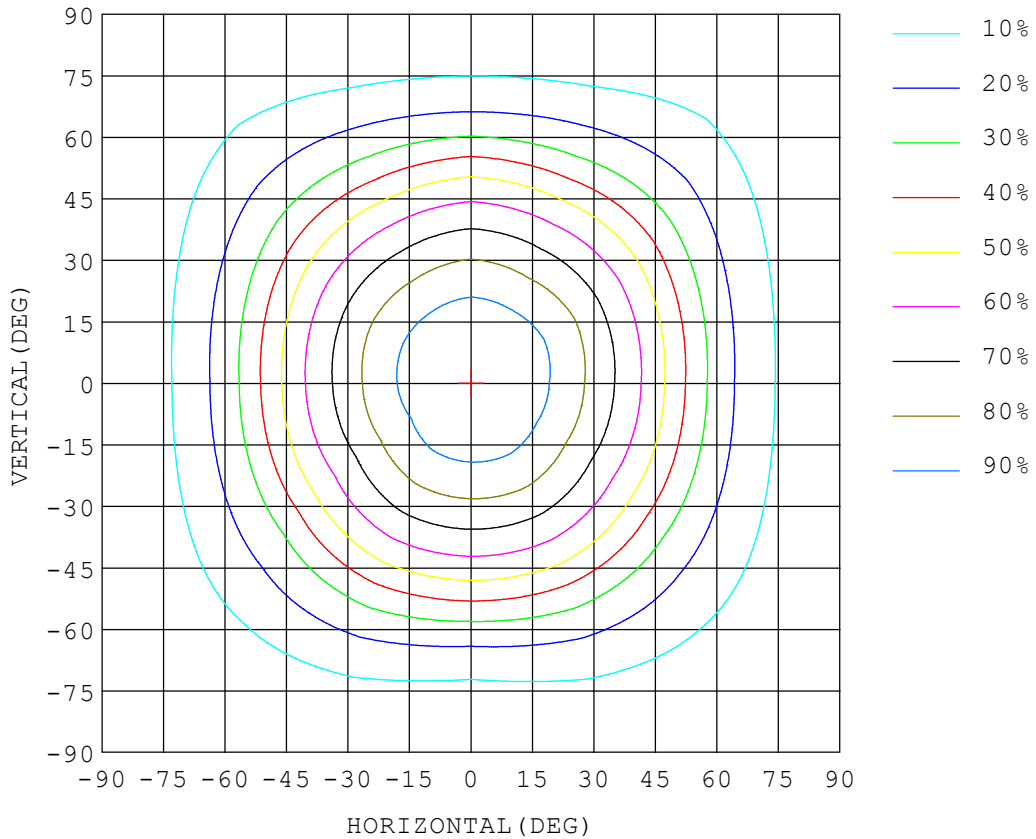
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**ISOCANDELA DIAGRAM**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |

UNIT: cd



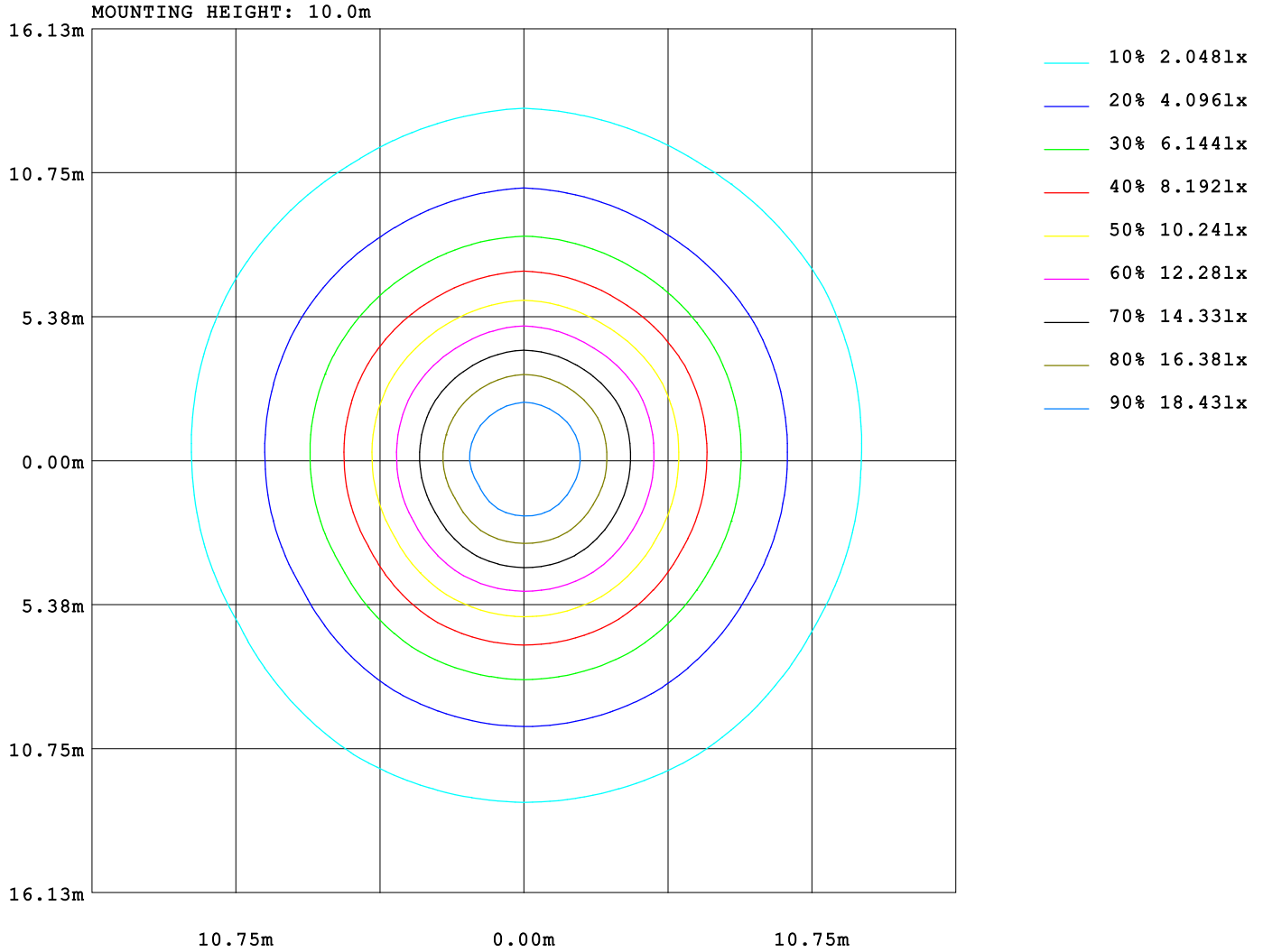
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**ISOLUX DIAGRAM**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

### AREA LUMINOUS FLUX

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|------|---------|------|------|-----|
|                | 0.06              | 0.27 | 0.60 | 0.96 | 1.24 | 1.47 | 1.73 | 2.03 | 2.25             | 2.26 | 2.06 | 1.78 | 1.55 | 1.36 | 1.09 | 0.70 | 0.32 | 0.08    | 21.8 | 0.00 |     |
| 90             | 0.09              | 0.45 | 1.15 | 2.09 | 3.01 | 3.92 | 4.87 | 5.76 | 6.31             | 6.34 | 5.85 | 4.99 | 4.08 | 3.19 | 2.27 | 1.29 | 0.52 | 0.10    | 56.3 | 18.8 |     |
| 80             | 0.11              | 0.64 | 1.78 | 3.48 | 5.48 | 7.78 | 10.1 | 12.1 | 13.4             | 13.5 | 12.3 | 10.3 | 8.05 | 5.77 | 3.72 | 1.95 | 0.73 | 0.13    | 112  | 102  |     |
| 70             | 0.13              | 0.84 | 2.45 | 5.20 | 8.71 | 12.8 | 17.3 | 21.5 | 24.5             | 24.6 | 21.8 | 17.6 | 13.2 | 9.14 | 5.54 | 2.66 | 0.95 | 0.15    | 189  | 185  |     |
| 60             | 0.15              | 1.03 | 3.16 | 6.98 | 12.2 | 19.0 | 26.1 | 32.0 | 35.7             | 35.8 | 32.3 | 26.7 | 19.8 | 12.9 | 7.41 | 3.42 | 1.15 | 0.17    | 277  | 273  |     |
| 50             | 0.16              | 1.20 | 3.84 | 8.67 | 16.2 | 25.4 | 33.9 | 40.7 | 44.9             | 45.0 | 41.1 | 34.6 | 26.3 | 17.1 | 9.21 | 4.11 | 1.33 | 0.19    | 354  | 352  |     |
| 40             | 0.18              | 1.33 | 4.41 | 10.2 | 19.6 | 30.3 | 40.0 | 47.7 | 52.4             | 52.6 | 48.1 | 40.8 | 31.3 | 20.6 | 10.8 | 4.68 | 1.48 | 0.21    | 417  | 415  |     |
| 30             | 0.18              | 1.42 | 4.80 | 11.3 | 21.9 | 33.4 | 44.3 | 52.9 | 58.0             | 58.2 | 53.6 | 45.3 | 34.4 | 22.9 | 12.1 | 5.07 | 1.57 | 0.22    | 462  | 460  |     |
| 20             | 0.19              | 1.44 | 4.94 | 11.9 | 22.9 | 34.7 | 46.1 | 55.5 | 60.8             | 60.9 | 56.1 | 47.0 | 35.7 | 23.8 | 12.6 | 5.21 | 1.60 | 0.22    | 482  | 480  |     |
| 10             | 0.18              | 1.42 | 4.88 | 11.7 | 22.6 | 34.3 | 45.6 | 54.8 | 60.4             | 60.7 | 55.6 | 46.5 | 35.3 | 23.5 | 12.4 | 5.14 | 1.58 | 0.22    | 477  | 476  |     |
| 0              | 0.18              | 1.36 | 4.62 | 10.8 | 21.0 | 32.1 | 42.8 | 51.9 | 57.3             | 57.5 | 52.7 | 43.8 | 33.2 | 22.0 | 11.5 | 4.87 | 1.51 | 0.21    | 450  | 448  |     |
| -10            | 0.17              | 1.25 | 4.14 | 9.48 | 18.2 | 28.5 | 38.6 | 46.9 | 51.3             | 51.6 | 47.5 | 39.5 | 29.6 | 19.1 | 10.1 | 4.37 | 1.39 | 0.20    | 402  | 400  |     |
| -20            | 0.15              | 1.09 | 3.47 | 7.84 | 14.4 | 23.7 | 32.8 | 39.7 | 43.4             | 43.6 | 40.2 | 33.5 | 24.7 | 15.3 | 8.30 | 3.71 | 1.22 | 0.18    | 338  | 335  |     |
| -30            | 0.13              | 0.92 | 2.73 | 6.11 | 10.9 | 17.6 | 25.1 | 30.8 | 33.8             | 34.0 | 31.2 | 25.7 | 18.3 | 11.5 | 6.42 | 2.97 | 1.02 | 0.16    | 260  | 256  |     |
| -40            | 0.11              | 0.71 | 2.04 | 4.26 | 7.74 | 12.0 | 16.5 | 20.1 | 22.1             | 22.2 | 20.3 | 16.8 | 12.3 | 8.05 | 4.56 | 2.23 | 0.81 | 0.14    | 174  | 167  |     |
| -50            | 0.09              | 0.51 | 1.39 | 2.77 | 4.68 | 7.06 | 9.44 | 11.0 | 11.7             | 11.7 | 11.1 | 9.57 | 7.25 | 4.92 | 2.98 | 1.54 | 0.60 | 0.11    | 98.5 | 86.3 |     |
| -60            | 0.07              | 0.33 | 0.80 | 1.54 | 2.53 | 3.64 | 4.55 | 5.00 | 5.10             | 5.13 | 5.09 | 4.68 | 3.80 | 2.70 | 1.69 | 0.92 | 0.40 | 0.09    | 48.1 | 10.1 |     |
| -70            | 0.05              | 0.18 | 0.33 | 0.56 | 0.91 | 1.28 | 1.52 | 1.55 | 1.47             | 1.49 | 1.59 | 1.58 | 1.36 | 1.00 | 0.66 | 0.41 | 0.22 | 0.06    | 16.2 | 0.00 |     |
| -80            |                   |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      |         |      |      |     |
| -90            |                   |      |      |      |      |      |      |      |                  |      |      |      |      |      |      |      |      |         |      |      |     |
|                | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   |         |      |      |     |
| Φ t            | 2.38              | 16.4 | 51.5 | 116  | 215  | 330  | 442  | 533  | 586              | 588  | 539  | 451  | 341  | 225  | 124  | 55.3 | 18.4 | 2.84    | 4641 |      |     |
| Φ a            | 0.00              | 3.14 | 40.3 | 106  | 205  | 320  | 432  | 523  | 576              | 578  | 529  | 442  | 331  | 216  | 114  | 44.6 | 5.18 | 0.00    |      | 4477 |     |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

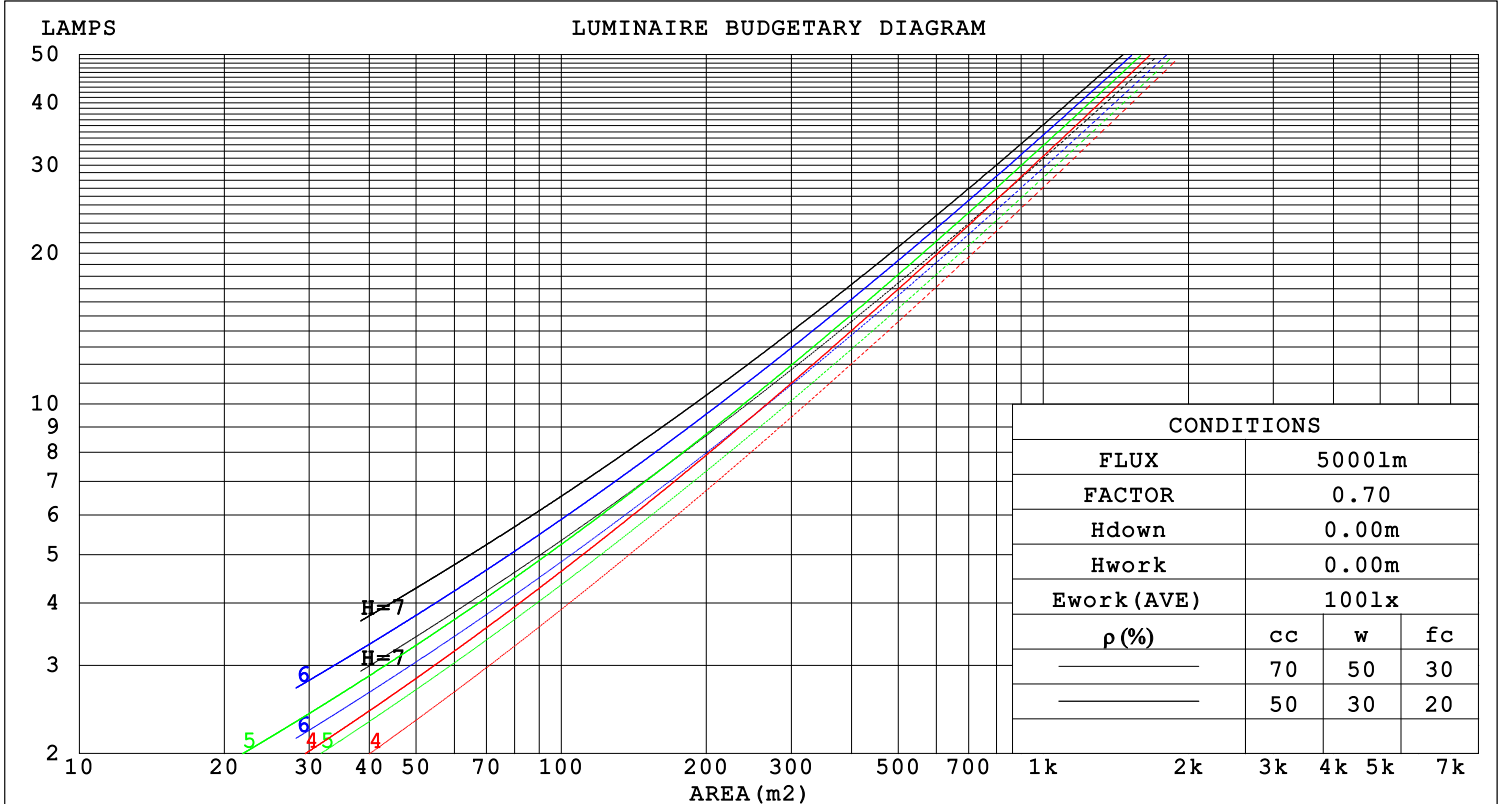


### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | 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 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0         | 1.05                  | 1.02 | .98  | 1.03 | .90  | .96  | .99                             | .96  | .93  | .95  | .93  | .91  | .92  | .90  | .88  | .86  |
| 2.0         | .93                   | .87  | .82  | .91  | .86  | .81  | .88                             | .83  | .79  | .85  | .81  | .77  | .82  | .78  | .75  | .73  |
| 3.0         | .83                   | .75  | .69  | .81  | .74  | .69  | .78                             | .72  | .67  | .76  | .70  | .66  | .73  | .69  | .65  | .63  |
| 4.0         | .74                   | .66  | .60  | .73  | .65  | .59  | .70                             | .64  | .58  | .68  | .62  | .58  | .66  | .61  | .57  | .55  |
| 5.0         | .67                   | .58  | .52  | .66  | .58  | .52  | .63                             | .56  | .51  | .62  | .55  | .51  | .60  | .54  | .50  | .48  |
| 6.0         | .60                   | .52  | .46  | .59  | .51  | .46  | .58                             | .51  | .45  | .56  | .50  | .45  | .54  | .49  | .44  | .42  |
| 7.0         | .55                   | .47  | .41  | .54  | .46  | .41  | .53                             | .46  | .40  | .51  | .45  | .40  | .50  | .44  | .40  | .38  |
| 8.0         | .50                   | .42  | .37  | .50  | .42  | .37  | .48                             | .41  | .36  | .47  | .41  | .36  | .46  | .40  | .36  | .34  |
| 9.0         | .46                   | .39  | .33  | .46  | .38  | .33  | .45                             | .38  | .33  | .44  | .37  | .33  | .43  | .37  | .33  | .31  |
| 10.0        | .43                   | .35  | .30  | .42  | .35  | .30  | .41                             | .35  | .30  | .41  | .34  | .30  | .40  | .34  | .30  | .28  |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**WEC AND CCEC**

Report number:

|  |  |  |  |  |                        |  |  |  |  |             |  |  |  |  |
|--|--|--|--|--|------------------------|--|--|--|--|-------------|--|--|--|--|
| MANUFACTURER: DIVINITY LIGHTS  |  |  |  |  |                        |  |  |  |  |             |  |  |  |  |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |  |  |  |  |                        |  |  |  |  |             |  |  |  |  |
| NAME: 1030-1-2-1-2   |  |  |  |  | TYPE: .5W 3K CRI90     |  |  |  |  | WEIGHT:     |  |  |  |  |
| SPECIFICATION:   |  |  |  |  | DIMENSION: 1200*145*45 |  |  |  |  | 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         | .280                  | .159 | .050 | .273 | .156 | .049 | .260                            | .149 | .048 | .248 | .143 | .046 | .237 | .137 | .044 |   |
| 2.0         | .266                  | .146 | .045 | .260 | .143 | .044 | .248                            | .138 | .043 | .237 | .133 | .042 | .228 | .129 | .041 |   |
| 3.0         | .248                  | .132 | .040 | .243 | .130 | .039 | .233                            | .126 | .038 | .223 | .122 | .038 | .215 | .119 | .037 |   |
| 4.0         | .231                  | .120 | .035 | .226 | .118 | .035 | .218                            | .115 | .034 | .209 | .112 | .034 | .202 | .109 | .033 |   |
| 5.0         | .215                  | .110 | .032 | .211 | .108 | .032 | .203                            | .106 | .031 | .196 | .103 | .031 | .189 | .101 | .030 |   |
| 6.0         | .201                  | .101 | .029 | .197 | .100 | .029 | .190                            | .098 | .028 | .184 | .096 | .028 | .178 | .094 | .028 |   |
| 7.0         | .188                  | .093 | .026 | .185 | .092 | .026 | .179                            | .090 | .026 | .173 | .089 | .026 | .167 | .087 | .026 |   |
| 8.0         | .177                  | .086 | .024 | .174 | .086 | .024 | .168                            | .084 | .024 | .163 | .082 | .024 | .158 | .081 | .024 |   |
| 9.0         | .166                  | .080 | .022 | .164 | .080 | .022 | .159                            | .078 | .022 | .154 | .077 | .022 | .149 | .076 | .022 |   |
| 10.0        | .157                  | .075 | .021 | .155 | .075 | .021 | .150                            | .073 | .021 | .146 | .072 | .021 | .142 | .071 | .020 |   |

| $\rho_{cc}$ | 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         | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0         | .178                  | .156 | .137 | .153 | .134 | .118 | .104                                       | .092 | .081 | .060 | .053 | .047 | .019 | .017 | .015 |   |
| 2.0         | .169                  | .132 | .101 | .145 | .114 | .087 | .099                                       | .079 | .061 | .057 | .046 | .036 | .018 | .015 | .012 |   |
| 3.0         | .160                  | .114 | .077 | .137 | .098 | .067 | .094                                       | .068 | .047 | .054 | .040 | .028 | .018 | .013 | .009 |   |
| 4.0         | .152                  | .101 | .061 | .131 | .087 | .053 | .090                                       | .061 | .037 | .052 | .035 | .022 | .017 | .012 | .007 |   |
| 5.0         | .145                  | .090 | .049 | .125 | .078 | .043 | .086                                       | .054 | .030 | .050 | .032 | .018 | .016 | .010 | .006 |   |
| 6.0         | .138                  | .081 | .041 | .119 | .071 | .036 | .082                                       | .049 | .025 | .047 | .029 | .015 | .015 | .010 | .005 |   |
| 7.0         | .131                  | .075 | .035 | .113 | .065 | .030 | .078                                       | .045 | .021 | .045 | .027 | .013 | .015 | .009 | .004 |   |
| 8.0         | .125                  | .069 | .030 | .108 | .060 | .026 | .075                                       | .042 | .018 | .043 | .025 | .011 | .014 | .008 | .004 |   |
| 9.0         | .119                  | .064 | .026 | .103 | .055 | .023 | .071                                       | .039 | .016 | .042 | .023 | .010 | .013 | .008 | .003 |   |
| 10.0        | .114                  | .059 | .023 | .098 | .052 | .020 | .068                                       | .036 | .014 | .040 | .021 | .009 | .013 | .007 | .003 |   |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

### Uncorrected UGR Table

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | 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 | 21.0             | 22.4 | 21.3 | 22.6 | 22.8 | 21.3           | 22.7 | 21.6 | 22.9 | 23.1 |
|                 | 3H     | 21.8             | 23.1 | 22.1 | 23.4 | 23.6 | 22.0           | 23.3 | 22.3 | 23.5 | 23.7 |
|                 | 4H     | 22.2             | 23.4 | 22.5 | 23.7 | 23.9 | 22.2           | 23.5 | 22.5 | 23.7 | 24.0 |
|                 | 6H     | 22.4             | 23.6 | 22.8 | 23.9 | 24.1 | 22.4           | 23.6 | 22.7 | 23.8 | 24.1 |
|                 | 8H     | 22.5             | 23.7 | 22.9 | 23.9 | 24.2 | 22.4           | 23.6 | 22.8 | 23.8 | 24.1 |
|                 | 12H    | 22.6             | 23.7 | 22.9 | 24.0 | 24.3 | 22.4           | 23.5 | 22.8 | 23.8 | 24.1 |
| 4H              | 2H     | 21.4             | 22.6 | 21.7 | 22.9 | 23.1 | 21.6           | 22.9 | 21.9 | 23.1 | 23.4 |
|                 | 3H     | 22.4             | 23.5 | 22.7 | 23.8 | 24.1 | 22.5           | 23.6 | 22.8 | 23.9 | 24.2 |
|                 | 4H     | 22.8             | 23.8 | 23.2 | 24.1 | 24.5 | 22.9           | 23.9 | 23.2 | 24.2 | 24.5 |
|                 | 6H     | 23.2             | 24.1 | 23.6 | 24.4 | 24.8 | 23.2           | 24.1 | 23.6 | 24.4 | 24.8 |
|                 | 8H     | 23.3             | 24.2 | 23.8 | 24.5 | 24.9 | 23.3           | 24.1 | 23.7 | 24.4 | 24.8 |
|                 | 12H    | 23.5             | 24.2 | 23.9 | 24.6 | 25.0 | 23.3           | 24.0 | 23.7 | 24.4 | 24.8 |
| 8H              | 4H     | 23.0             | 23.8 | 23.4 | 24.2 | 24.5 | 23.0           | 23.8 | 23.4 | 24.2 | 24.6 |
|                 | 6H     | 23.5             | 24.1 | 23.9 | 24.5 | 25.0 | 23.5           | 24.1 | 23.9 | 24.5 | 25.0 |
|                 | 8H     | 23.7             | 24.3 | 24.1 | 24.7 | 25.2 | 23.6           | 24.2 | 24.1 | 24.7 | 25.1 |
|                 | 12H    | 23.9             | 24.4 | 24.4 | 24.8 | 25.3 | 23.8           | 24.3 | 24.2 | 24.7 | 25.2 |
| 12H             | 4H     | 23.0             | 23.7 | 23.4 | 24.1 | 24.5 | 23.0           | 23.8 | 23.4 | 24.1 | 24.5 |
|                 | 6H     | 23.5             | 24.1 | 24.0 | 24.5 | 25.0 | 23.5           | 24.1 | 24.0 | 24.5 | 25.0 |
|                 | 8H     | 23.8             | 24.3 | 24.2 | 24.7 | 25.2 | 23.7           | 24.2 | 24.2 | 24.7 | 25.1 |

| Variations with the observer position at spacings: |               |               |
|--|---------------|---------------|
| S = 1.0H   | + 0.3 / - 0.3 | + 0.4 / - 0.4 |
| 1.5H   | + 0.2 / - 0.3 | + 0.2 / - 0.4 |
| 2.0H   | + 0.7 / - 0.7 | + 0.6 / - 0.7 |

CIE Pub.117 Corrected 4641 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.3)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**UTILIZATION FACTORS TABLE**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | 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                         | 62   | 51  | 44        | 61  | 51  | 44  | 60            | 50  | 44  | 38     |
| 0.80                             | 72   | 61  | 54        | 71  | 61  | 54  | 69            | 60  | 54  | 47     |
| 1.00                             | 80   | 70  | 63        | 79  | 69  | 63  | 77            | 71  | 63  | 56     |
| 1.25                             | 87   | 77  | 71        | 86  | 77  | 71  | 83            | 75  | 70  | 63     |
| 1.50                             | 92   | 83  | 76        | 90  | 82  | 76  | 87            | 80  | 75  | 68     |
| 2.00                             | 98   | 90  | 84        | 96  | 89  | 84  | 93            | 87  | 82  | 75     |
| 2.50                             | 101  | 94  | 89        | 99  | 93  | 88  | 96            | 90  | 86  | 78     |
| 3.00                             | 104  | 98  | 93        | 102 | 97  | 92  | 98            | 94  | 90  | 82     |
| 4.00                             | 108  | 103 | 98        | 105 | 101 | 97  | 101           | 98  | 94  | 86     |
| 5.00                             | 110  | 105 | 102       | 107 | 104 | 100 | 103           | 100 | 97  | 88     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

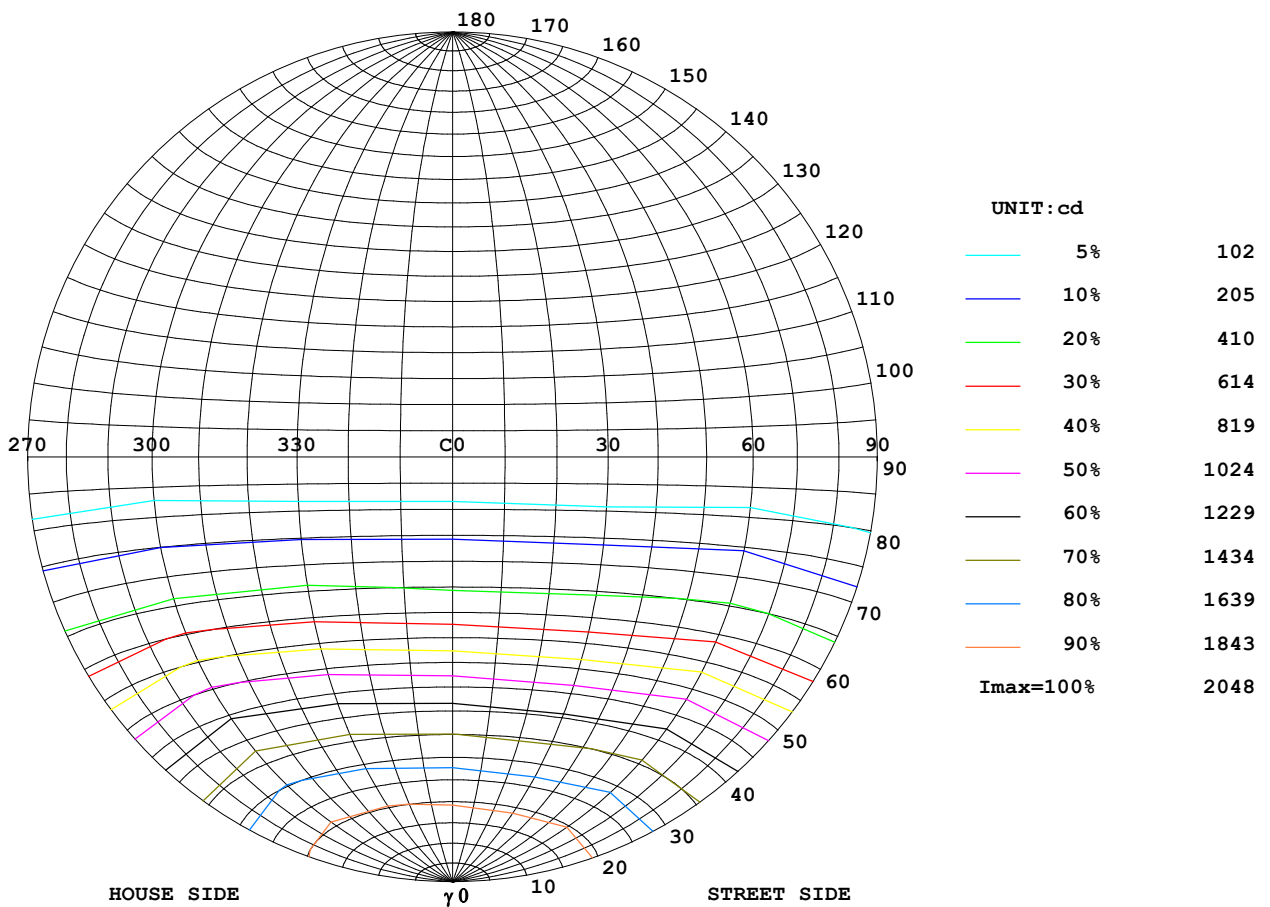
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**ISOCANDELA DIAGRAM**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

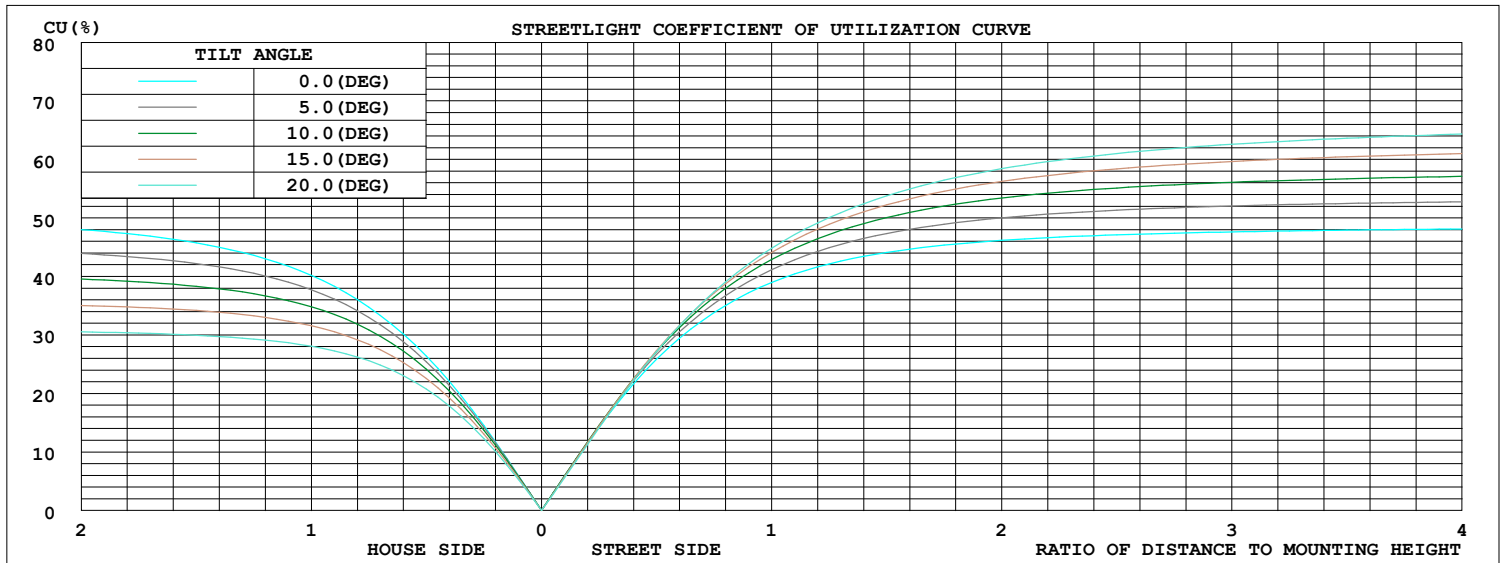
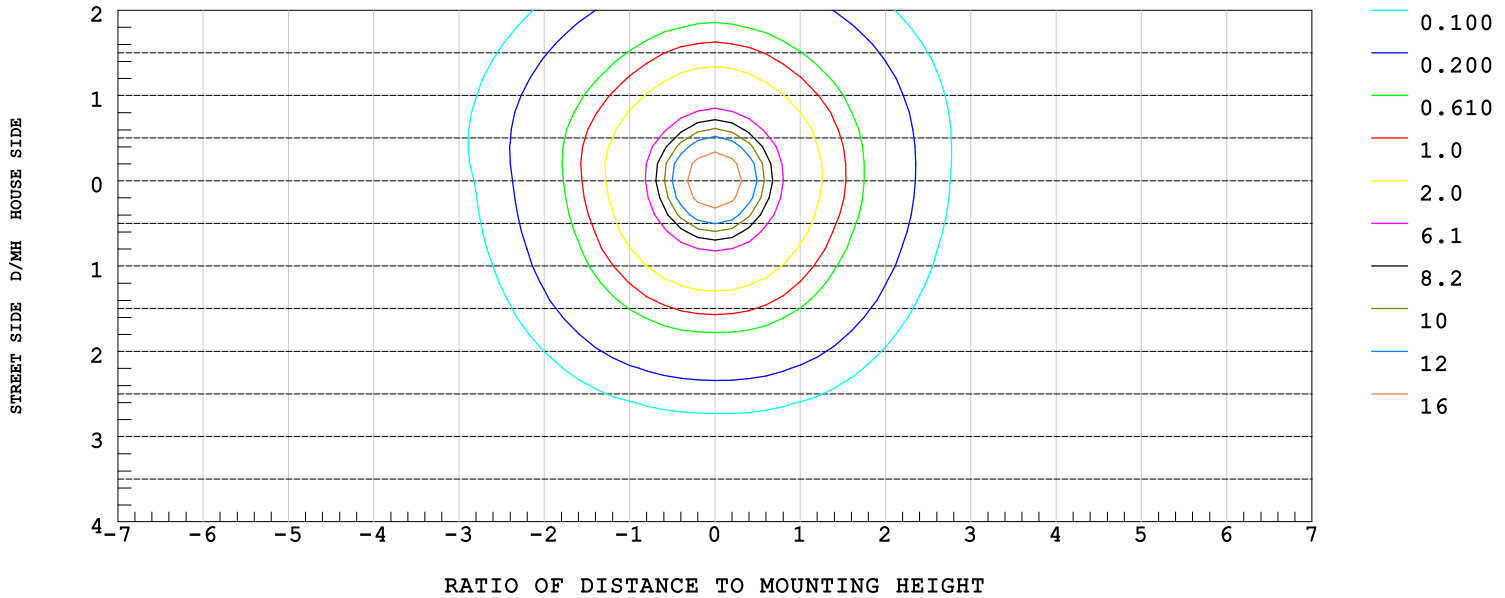
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

### ISOLUX DIAGRAM

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |

ILLUMINANCE AT MH=10 m, Enadir = 20.48 lx



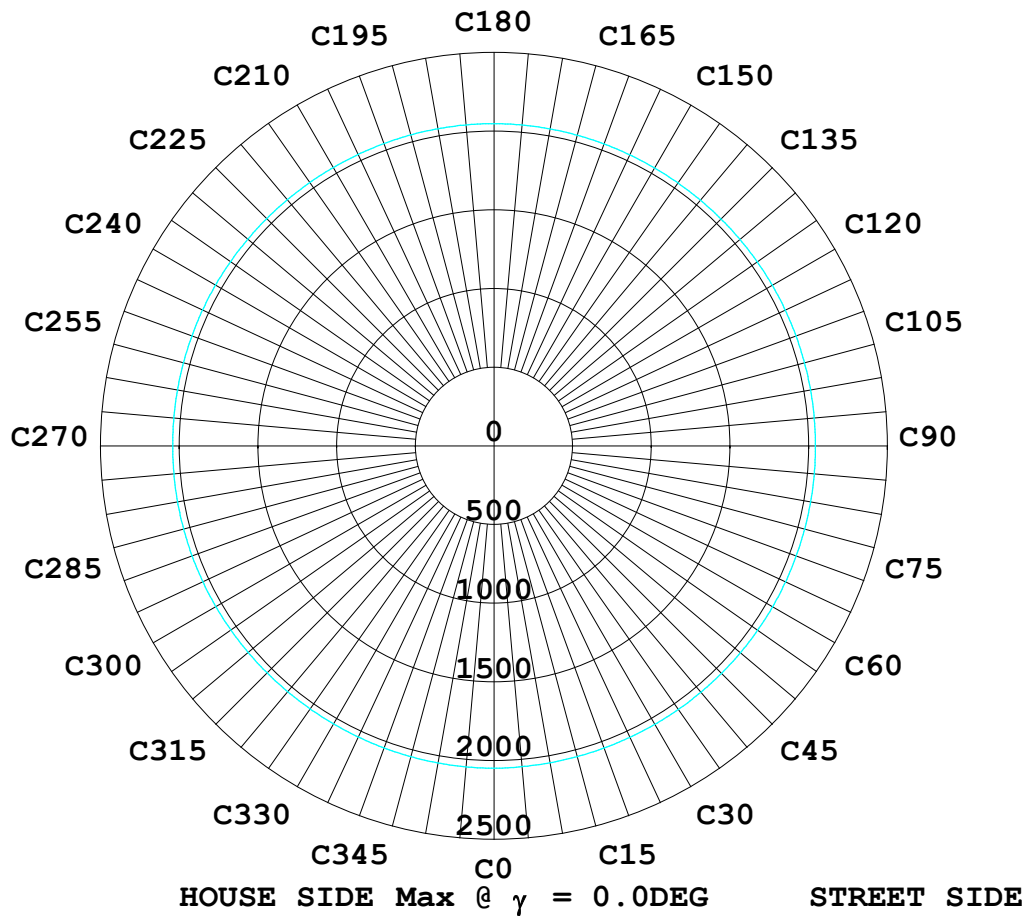
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**ISOCANDELA DIAGRAM**

Report number:

|  |                        |             |
|--|------------------------|-------------|
| MANUFACTURER: DIVINITY LIGHTS  |                        |             |
| Address: PLOT NO-21 SAROORPUR NANGLA IND. AREA FARIBAAD HARYANA 121005 |                        |             |
| NAME: 1030-1-2-1-2   | TYPE: .5W 3K CRI90     | WEIGHT:     |
| SPECIFICATION:   | DIMENSION: 1200*145*45 | SERIAL No.: |



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K

**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: 1030-1-2-1-2</b>   | <b>TYPE: .5W 3K CRI90</b>     | <b>WEIGHT:</b>     |
| <b>SPECIFICATION:</b>   | <b>DIMENSION: 1200*145*45</b> | <b>SERIAL No.:</b> |

UNIT: cd

| C (DEG) \ γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0               | 2048 | 2043 | 2044 | 2042 | 2042 | 2040 | 2048 | 2043 | 2044 | 2042 | 2042 | 2040 |
| 5.0               | 2035 | 2028 | 2030 | 2025 | 2022 | 2016 | 2030 | 2031 | 2031 | 2031 | 2034 | 2036 |
| 10.0              | 1994 | 1983 | 1989 | 1987 | 1980 | 1961 | 1980 | 1988 | 1992 | 2000 | 1995 | 2001 |
| 15.0              | 1923 | 1911 | 1927 | 1916 | 1915 | 1880 | 1905 | 1917 | 1930 | 1949 | 1943 | 1939 |
| 20.0              | 1826 | 1818 | 1836 | 1830 | 1820 | 1783 | 1801 | 1827 | 1839 | 1863 | 1851 | 1858 |
| 25.0              | 1709 | 1697 | 1727 | 1716 | 1709 | 1662 | 1679 | 1718 | 1729 | 1765 | 1740 | 1754 |
| 30.0              | 1578 | 1562 | 1600 | 1593 | 1581 | 1519 | 1542 | 1586 | 1601 | 1645 | 1614 | 1626 |
| 35.0              | 1435 | 1415 | 1458 | 1452 | 1440 | 1369 | 1399 | 1440 | 1461 | 1514 | 1478 | 1481 |
| 40.0              | 1280 | 1257 | 1301 | 1301 | 1285 | 1209 | 1242 | 1286 | 1313 | 1364 | 1329 | 1327 |
| 45.0              | 1114 | 1087 | 1138 | 1138 | 1119 | 1041 | 1068 | 1121 | 1142 | 1207 | 1157 | 1163 |
| 50.0              | 916  | 893  | 953  | 953  | 935  | 844  | 873  | 939  | 965  | 1038 | 982  | 985  |
| 55.0              | 708  | 687  | 741  | 738  | 727  | 645  | 667  | 735  | 756  | 832  | 773  | 781  |
| 60.0              | 531  | 521  | 566  | 538  | 558  | 487  | 494  | 558  | 574  | 623  | 584  | 595  |
| 65.0              | 389  | 391  | 422  | 383  | 416  | 376  | 379  | 427  | 431  | 443  | 439  | 453  |
| 70.0              | 276  | 270  | 274  | 238  | 272  | 251  | 252  | 315  | 297  | 303  | 304  | 335  |
| 75.0              | 192  | 181  | 195  | 162  | 188  | 168  | 171  | 213  | 193  | 203  | 199  | 229  |
| 80.0              | 119  | 111  | 121  | 98.3 | 117  | 101  | 104  | 140  | 120  | 137  | 123  | 152  |
| 85.0              | 63.1 | 54.9 | 63.9 | 39.8 | 61.3 | 46.6 | 50.6 | 78.8 | 63.8 | 74.5 | 65.7 | 88.6 |
| 90.0              | 20.1 | 12.3 | 14.8 | 6.58 | 13.8 | 7.76 | 17.9 | 27.2 | 18.8 | 18.9 | 20.3 | 34.7 |

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:06-14-2023

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:9.500 m  
 Remarks: 3000K