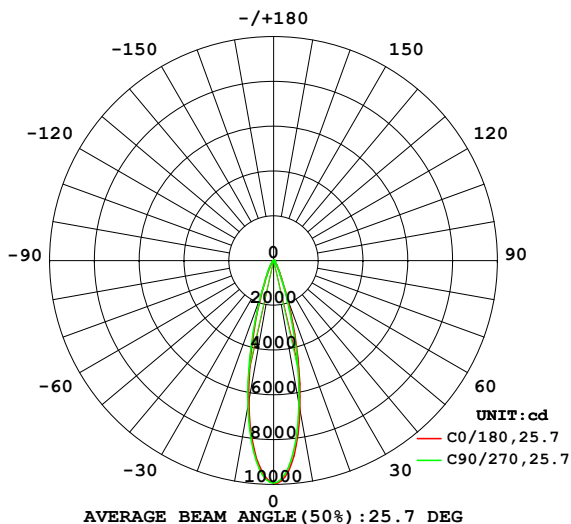


## LUMINAIRE PHOTOMETRIC TEST REPORT

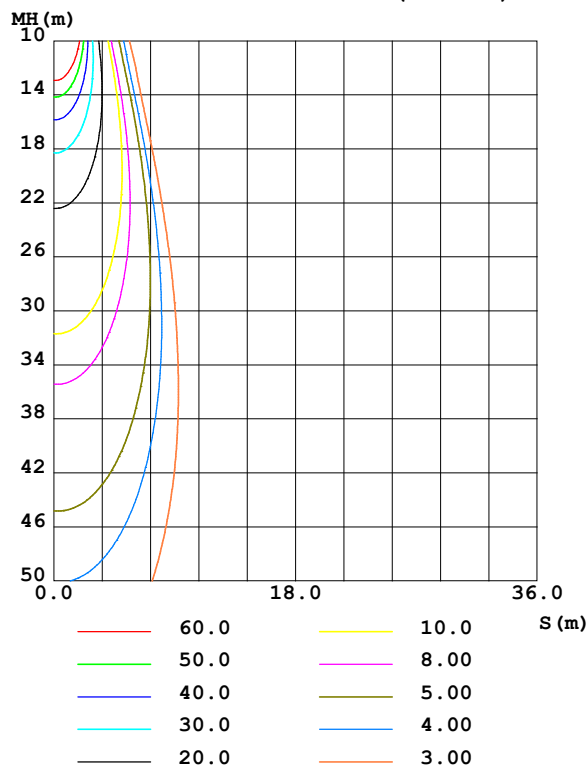
|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |          |                  |
| NAME: DL3564 24D 3500K CRI90  | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

| DATA OF LAMP                 |         | PHOTOMETRIC DATA Eff: 86.45 lm/W |        |                   |          |
|------------------------------|---------|----------------------------------|--------|-------------------|----------|
| MODEL DL3564 24D 3500K CRI90 |         | I <sub>max</sub> (cd)            | 9942   | S/MH(C0/180)      | 0.42     |
| NOMINAL POWER(W)             | 30      | LOR(%)                           | 100.0  | S/MH(C90/270)     | 0.44     |
| RATED VOLTAGE(V)             | 220     | TOTAL FLUX(lm)                   | 2401.8 | η UP,DN(C0-180)   | 0.3,49.4 |
| NOMINAL FLUX(lm)             | 2401.82 | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.5,49.8 |
| LAMPS INSIDE                 | 1       | η up (%)                         | 0.8    | CIBSE SHR NOM     | 0.00     |
| TEST VOLTAGE(V)              | 220     | η down (%)                       | 99.2   | CIBSE SHR MAX     | 0.30     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 6768                  | 6683   | 6550   | 6396   | 6417   | 6492   | 6645   | 6812   | 0- 10    | 779.9       | 779.9        | 32.5,32.5  |
| 20       | 1765                  | 1657   | 1593   | 1555   | 1610   | 1644   | 1717   | 1793   | 10- 20   | 1030        | 1810         | 75.4,75.4  |
| 30       | 418.0                 | 400.7  | 395.5  | 392.5  | 397.9  | 405.4  | 421.7  | 424.5  | 20- 30   | 372.3       | 2182         | 90.9,90.9  |
| 40       | 115.4                 | 112.9  | 109.7  | 106.8  | 106.7  | 107.5  | 113.9  | 117.3  | 30- 40   | 142.5       | 2325         | 96.8,96.8  |
| 50       | 27.92                 | 27.07  | 25.25  | 23.95  | 23.33  | 24.19  | 25.75  | 28.00  | 40- 50   | 45.49       | 2370         | 98.7,98.7  |
| 60       | 4.929                 | 4.860  | 4.626  | 4.091  | 3.895  | 4.130  | 4.455  | 4.715  | 50- 60   | 9.990       | 2380         | 99.1,99.1  |
| 70       | 1.119                 | 1.092  | 0.9930 | 0.8490 | 0.7842 | 0.7960 | 0.8684 | 1.017  | 60- 70   | 2.222       | 2382         | 99.2,99.2  |
| 80       | 0.1442                | 0.1383 | 0.1322 | 0.1099 | 0.0765 | 0.0679 | 0.0797 | 0.0892 | 70- 80   | 0.3953      | 2383         | 99.2,99.2  |
| 90       | 0.0609                | 0.0590 | 0.0593 | 0.0504 | 0.0383 | 0.0295 | 0.0342 | 0.0275 | 80- 90   | 0.0752      | 2383         | 99.2,99.2  |
| 100      | 0.0877                | 0.0883 | 0.0956 | 0.0960 | 0.0902 | 0.0816 | 0.0844 | 0.0756 | 90-100   | 0.0629      | 2383         | 99.2,99.2  |
| 110      | 0.2699                | 0.2671 | 0.2754 | 0.2791 | 0.2164 | 0.2065 | 0.2075 | 0.1994 | 100-110  | 0.1582      | 2383         | 99.2,99.2  |
| 120      | 0.5715                | 0.5707 | 0.5851 | 0.5948 | 0.6064 | 0.5809 | 0.5747 | 0.5707 | 110-120  | 0.3842      | 2384         | 99.2,99.2  |
| 130      | 1.080                 | 1.089  | 1.111  | 1.123  | 2.086  | 2.020  | 1.974  | 1.945  | 120-130  | 0.8568      | 2384         | 99.3,99.3  |
| 140      | 3.045                 | 3.101  | 3.174  | 3.256  | 6.293  | 6.196  | 6.089  | 5.980  | 130-140  | 2.183       | 2387         | 99.4,99.4  |
| 150      | 7.868                 | 7.965  | 8.111  | 8.241  | 11.95  | 11.86  | 11.77  | 11.63  | 140-150  | 4.454       | 2391         | 99.6,99.6  |
| 160      | 12.70                 | 12.80  | 13.00  | 13.03  | 15.07  | 15.07  | 15.07  | 14.84  | 150-160  | 5.601       | 2397         | 99.8,99.8  |
| 170      | 12.91                 | 13.01  | 13.20  | 13.15  | 13.74  | 13.74  | 13.70  | 13.62  | 160-170  | 3.989       | 2401         | 99.9,99.9  |
| 180      | 12.08                 | 12.23  | 11.99  | 12.26  | 12.11  | 12.25  | 12.01  | 12.28  | 170-180  | 1.213       | 2402         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 2354.4 lm

%lum = 98.0%

%lamp = 98.0%

Conical surface Flux(130deg): 2381.7 lm

%lum = 99.2%

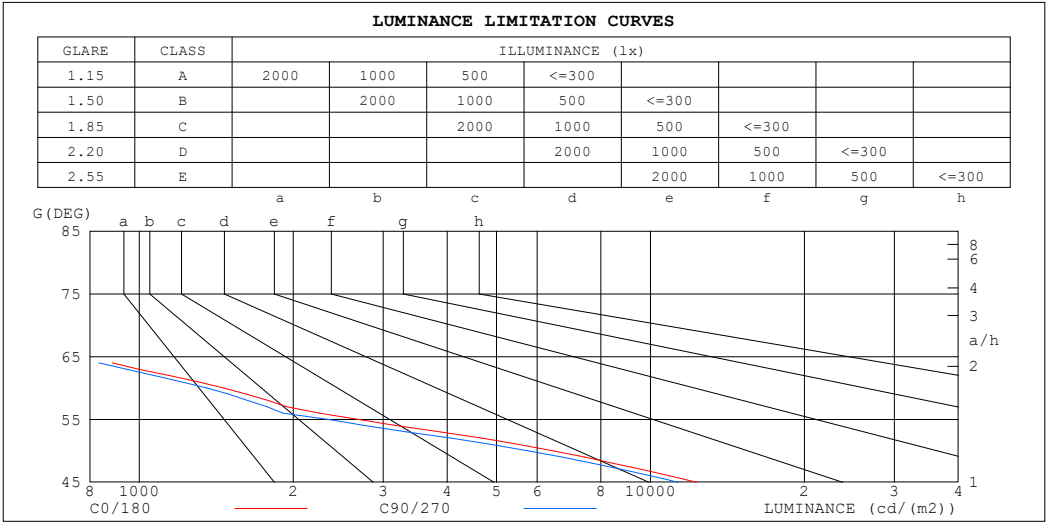
%lamp = 99.2%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz |          |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm    |          |                  |
| NAME: DL3564 24D 3500K CRI90                              | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 177    | 154     |
| 80                | 123    | 112     |
| 75                | 237    | 194     |
| 70                | 486    | 426     |
| 65                | 787    | 725     |
| 60                | 1464   | 1358    |
| 55                | 2689   | 2349    |
| 50                | 6452   | 5766    |
| 45                | 12301  | 11341   |

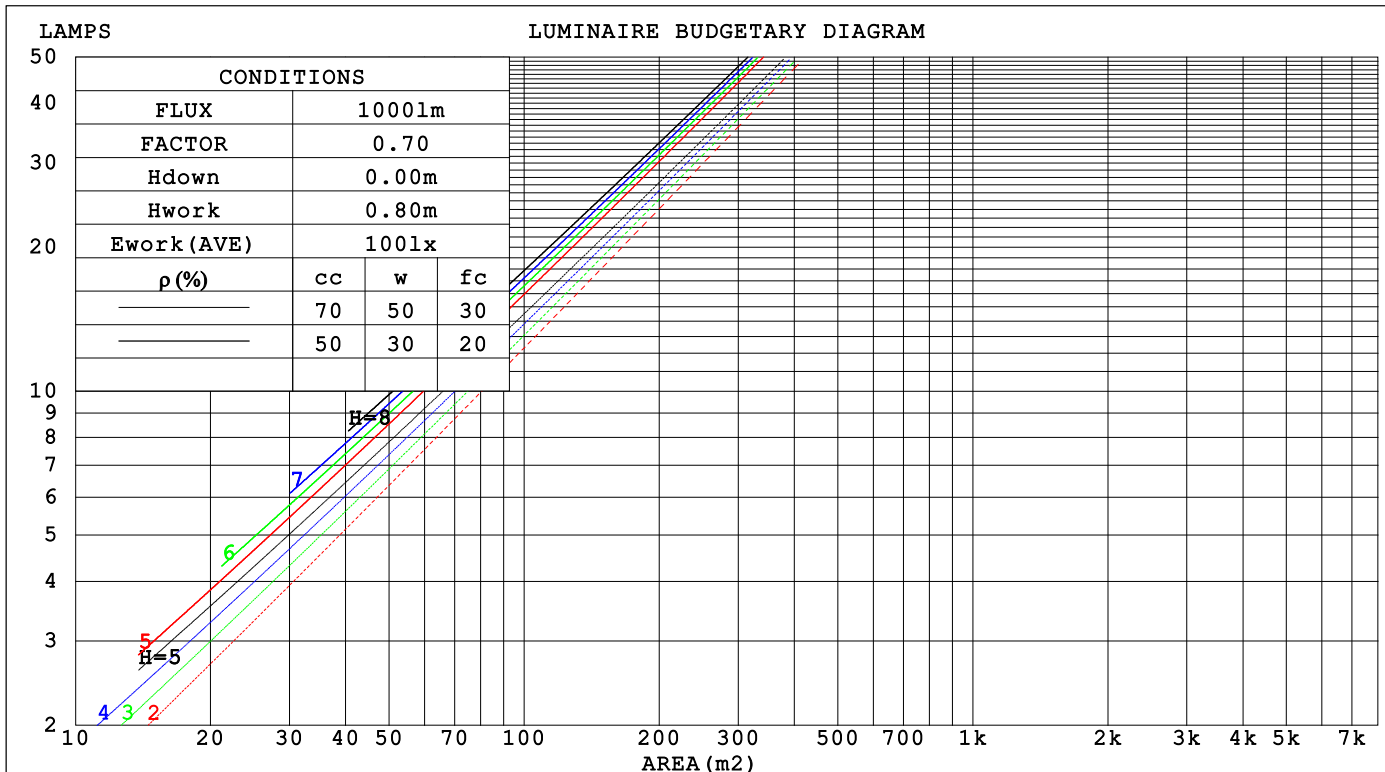
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz |          |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm    |          |                  |
| NAME: DL3564 24D 3500K CRI90                              | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

| 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 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 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0  | 1.12  | 1.10 | 1.09 | 1.10 | 1.08 | 1.07 | 1.06 | 1.05 | 1.03 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96 |
| 2.0  | 1.07  | 1.04 | 1.01 | 1.05 | 1.02 | .00  | 1.02 | .00  | .98  | .99  | .97  | .96  | .96  | .95  | .93  | .92 |
| 3.0  | 1.02  | .98  | .95  | 1.01 | .97  | .94  | .98  | .95  | .93  | .96  | .93  | .91  | .93  | .91  | .90  | .89 |
| 4.0  | .98   | .94  | .90  | .97  | .93  | .90  | .94  | .91  | .89  | .92  | .90  | .88  | .91  | .88  | .87  | .85 |
| 5.0  | .94   | .89  | .86  | .93  | .89  | .86  | .91  | .88  | .85  | .90  | .87  | .84  | .88  | .86  | .84  | .82 |
| 6.0  | .90   | .86  | .83  | .90  | .85  | .82  | .88  | .85  | .82  | .87  | .84  | .81  | .86  | .83  | .81  | .80 |
| 7.0  | .87   | .83  | .80  | .86  | .82  | .79  | .85  | .82  | .79  | .84  | .81  | .79  | .83  | .80  | .78  | .77 |
| 8.0  | .84   | .80  | .77  | .84  | .80  | .77  | .83  | .79  | .76  | .82  | .78  | .76  | .81  | .78  | .76  | .75 |
| 9.0  | .82   | .77  | .74  | .81  | .77  | .74  | .80  | .77  | .74  | .79  | .76  | .74  | .79  | .76  | .73  | .72 |
| 10.0 | .79   | .75  | .72  | .79  | .75  | .72  | .78  | .74  | .72  | .77  | .74  | .72  | .77  | .74  | .71  | .70 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

## WEC AND CCEC

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz |          |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm    |          |                  |
| NAME: DL3564 24D 3500K CRI90                              | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

| 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  | .142                  | .081 | .026 | .135 | .077 | .024 | .122                            | .070 | .022 | .110 | .064 | .020 | .100 | .058 | .019 |   |  |
| 2.0  | .132                  | .073 | .022 | .127 | .070 | .021 | .116                            | .064 | .020 | .106 | .060 | .019 | .097 | .055 | .017 |   |  |
| 3.0  | .124                  | .066 | .020 | .119 | .064 | .019 | .110                            | .060 | .018 | .102 | .056 | .017 | .094 | .052 | .016 |   |  |
| 4.0  | .116                  | .060 | .018 | .112 | .059 | .017 | .105                            | .056 | .017 | .098 | .052 | .016 | .091 | .049 | .015 |   |  |
| 5.0  | .110                  | .056 | .016 | .106 | .055 | .016 | .100                            | .052 | .015 | .094 | .049 | .015 | .088 | .047 | .014 |   |  |
| 6.0  | .104                  | .052 | .015 | .101 | .051 | .015 | .095                            | .049 | .014 | .090 | .047 | .014 | .085 | .045 | .013 |   |  |
| 7.0  | .099                  | .049 | .014 | .096 | .048 | .014 | .091                            | .046 | .013 | .087 | .044 | .013 | .082 | .043 | .013 |   |  |
| 8.0  | .094                  | .046 | .013 | .092 | .045 | .013 | .088                            | .044 | .013 | .084 | .042 | .012 | .080 | .041 | .012 |   |  |
| 9.0  | .090                  | .044 | .012 | .088 | .043 | .012 | .084                            | .042 | .012 | .081 | .040 | .012 | .077 | .039 | .011 |   |  |
| 10.0 | .086                  | .041 | .012 | .085 | .041 | .011 | .081                            | .040 | .011 | .078 | .039 | .011 | .075 | .038 | .011 |   |  |

| 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  | .196                  | .196 | .196 | .168 | .168 | .168 | .115  | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 |   |  |
| 1.0  | .175                  | .164 | .154 | .150 | .140 | .132 | .102  | .097 | .091 | .059 | .056 | .053 | .019 | .018 | .017 |   |  |
| 2.0  | .157                  | .139 | .123 | .135 | .119 | .107 | .092  | .083 | .074 | .053 | .048 | .044 | .017 | .016 | .014 |   |  |
| 3.0  | .142                  | .119 | .101 | .122 | .103 | .088 | .084  | .072 | .061 | .048 | .042 | .036 | .016 | .014 | .012 |   |  |
| 4.0  | .130                  | .104 | .084 | .112 | .090 | .073 | .077  | .063 | .052 | .044 | .037 | .030 | .014 | .012 | .010 |   |  |
| 5.0  | .120                  | .092 | .071 | .103 | .080 | .062 | .071  | .056 | .044 | .041 | .033 | .026 | .013 | .011 | .009 |   |  |
| 6.0  | .111                  | .082 | .061 | .096 | .071 | .053 | .066  | .050 | .038 | .038 | .029 | .022 | .012 | .010 | .007 |   |  |
| 7.0  | .104                  | .074 | .053 | .089 | .064 | .046 | .062  | .045 | .033 | .036 | .026 | .019 | .012 | .009 | .006 |   |  |
| 8.0  | .098                  | .067 | .047 | .084 | .058 | .041 | .058  | .041 | .029 | .034 | .024 | .017 | .011 | .008 | .006 |   |  |
| 9.0  | .092                  | .062 | .041 | .079 | .054 | .036 | .055  | .038 | .026 | .032 | .022 | .015 | .010 | .007 | .005 |   |  |
| 10.0 | .087                  | .057 | .037 | .075 | .050 | .032 | .052  | .035 | .023 | .030 | .021 | .014 | .010 | .007 | .005 |   |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

|   |                  |      |     |      |          |                |      |                  |      |      |
|---|------------------|------|-----|------|----------|----------------|------|------------------|------|------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |                  |      |     |      |          |                |      |                  |      |      |
| NAME: DL3564 24D 3500K CRI90  |                  |      |     |      | TYPE:    |                |      | WEIGHT:          |      |      |
| SPEC.:  |                  |      |     |      | DIM.:    |                |      | SERIAL No.:      |      |      |
| MFR.: VJC Lighting  |                  |      |     |      | SUR.: 68 |                |      | Shielding Angle: |      |      |
| 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   | 9.7              | 10.4 | 9.9 | 10.5 | 10.7     | 9.4            | 10.1 | 9.6              | 10.2 | 10.4 |
| 3H  | 9.5              | 10.2 | 9.8 | 10.4 | 10.6     | 9.2            | 9.9  | 9.5              | 10.1 | 10.3 |
| 4H  | 9.4              | 10.0 | 9.7 | 10.3 | 10.5     | 9.1            | 9.8  | 9.4              | 10.0 | 10.2 |
| 6H  | 9.4              | 9.9  | 9.7 | 10.2 | 10.4     | 9.1            | 9.6  | 9.4              | 9.9  | 10.1 |
| 8H  | 9.3              | 9.9  | 9.6 | 10.1 | 10.4     | 9.0            | 9.6  | 9.3              | 9.8  | 10.1 |
| 12H   | 9.3              | 9.8  | 9.6 | 10.1 | 10.3     | 9.0            | 9.5  | 9.3              | 9.8  | 10.1 |
| 4H 2H   | 9.5              | 10.1 | 9.7 | 10.3 | 10.5     | 9.2            | 9.8  | 9.4              | 10.0 | 10.2 |
| 3H  | 9.3              | 9.8  | 9.6 | 10.1 | 10.4     | 9.0            | 9.5  | 9.3              | 9.8  | 10.1 |
| 4H  | 9.2              | 9.7  | 9.5 | 10.0 | 10.3     | 8.9            | 9.4  | 9.2              | 9.7  | 10.0 |
| 6H  | 9.1              | 9.5  | 9.5 | 9.9  | 10.2     | 8.8            | 9.2  | 9.2              | 9.6  | 9.9  |
| 8H  | 9.0              | 9.4  | 9.4 | 9.8  | 10.2     | 8.7            | 9.1  | 9.1              | 9.5  | 9.9  |
| 12H   | 9.0              | 9.3  | 9.4 | 9.7  | 10.1     | 8.7            | 9.0  | 9.1              | 9.4  | 9.8  |
| 8H 4H   | 9.0              | 9.4  | 9.4 | 9.8  | 10.2     | 8.7            | 9.1  | 9.1              | 9.5  | 9.9  |
| 6H  | 8.9              | 9.2  | 9.4 | 9.7  | 10.1     | 8.6            | 9.0  | 9.1              | 9.4  | 9.8  |
| 8H  | 8.9              | 9.1  | 9.3 | 9.6  | 10.0     | 8.6            | 8.9  | 9.0              | 9.3  | 9.7  |
| 12H   | 8.8              | 9.0  | 9.3 | 9.5  | 10.0     | 8.5            | 8.8  | 9.0              | 9.2  | 9.7  |
| 12H 4H  | 9.0              | 9.3  | 9.4 | 9.7  | 10.1     | 8.7            | 9.0  | 9.1              | 9.4  | 9.8  |
| 6H  | 8.9              | 9.1  | 9.3 | 9.6  | 10.0     | 8.6            | 8.9  | 9.0              | 9.3  | 9.7  |
| 8H  | 8.8              | 9.0  | 9.3 | 9.5  | 10.0     | 8.5            | 8.8  | 9.0              | 9.2  | 9.7  |
| Variations with the observer position at spacings(CIE Pub.117):   |                  |      |     |      |          |                |      |                  |      |      |
| S = 1.0H  | + 3.1 / -11.1    |      |     |      |          | + 3.0 / -11.3  |      |                  |      |      |
| 1.5H  | + 4.9 / - 8.9    |      |     |      |          | + 4.8 / - 9.3  |      |                  |      |      |
| 2.0H  | + 6.1 / - 9.0    |      |     |      |          | + 6.0 / - 8.8  |      |                  |      |      |

CIE Pub.117, 2402 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.0)  
Area: 0.0068 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |          |                  |
| NAME: DL3564 24D 3500K CRI90  | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

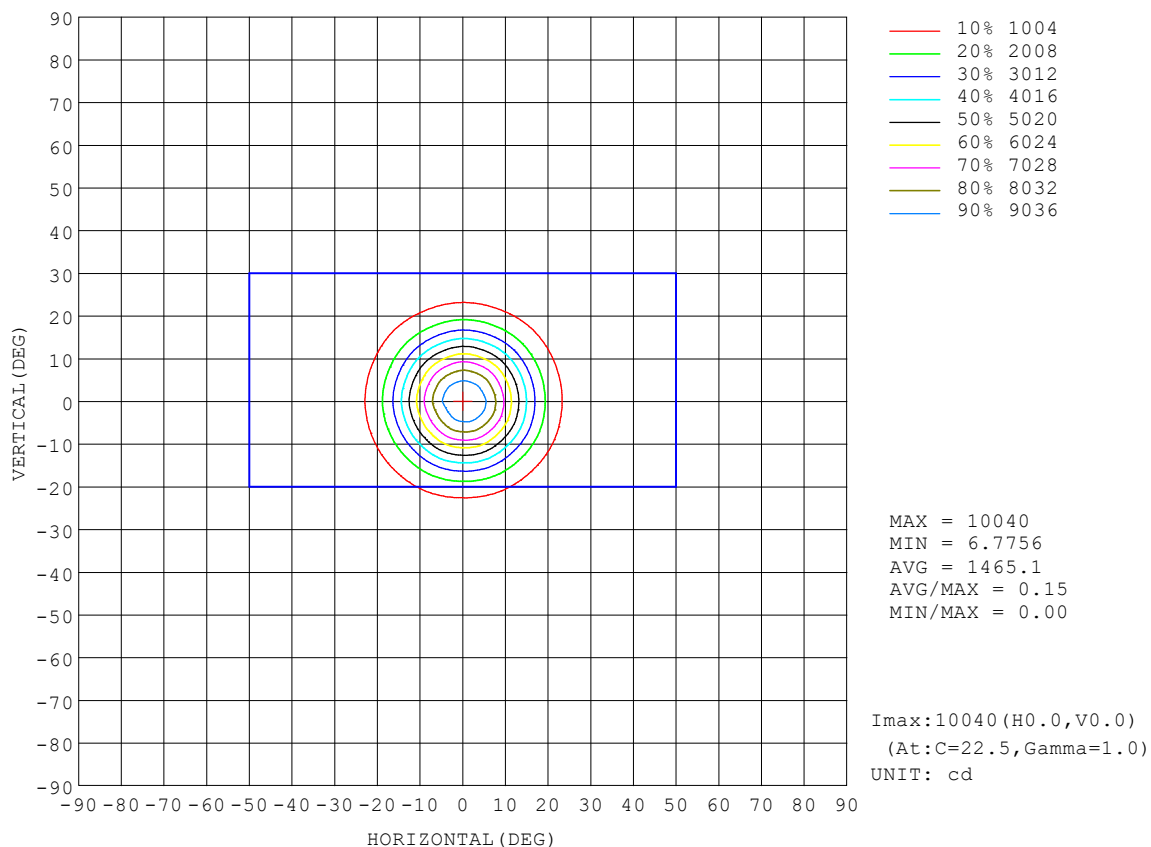
| REFLECTANCE                      |  |     |           |     |     |     |     |               |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 90   | 84  | 80        | 89  | 83  | 80  | 88  | 83            | 80  | 77     |
| 0.80                             | 97   | 91  | 88        | 96  | 91  | 88  | 95  | 90            | 87  | 84     |
| 1.00                             | 101  | 96  | 92        | 100 | 95  | 92  | 98  | 95            | 91  | 87     |
| 1.25                             | 104  | 100 | 96        | 103 | 99  | 96  | 101 | 98            | 95  | 91     |
| 1.50                             | 107  | 103 | 99        | 106 | 102 | 99  | 103 | 100           | 98  | 93     |
| 2.00                             | 109  | 105 | 102       | 108 | 104 | 102 | 105 | 102           | 100 | 95     |
| 2.50                             | 111  | 107 | 104       | 109 | 106 | 103 | 106 | 103           | 101 | 96     |
| 3.00                             | 112  | 109 | 106       | 110 | 108 | 105 | 107 | 105           | 103 | 97     |
| 4.00                             | 114  | 112 | 109       | 112 | 110 | 108 | 108 | 107           | 105 | 98     |
| 5.00                             | 115  | 113 | 112       | 113 | 111 | 110 | 109 | 108           | 107 | 99     |
| ROOM INDEX                       | UF (total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: 001  
 Test Date: 2024-04-09

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 7.580m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |          |                  |
| NAME: DL3564 24D 3500K CRI90  | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |



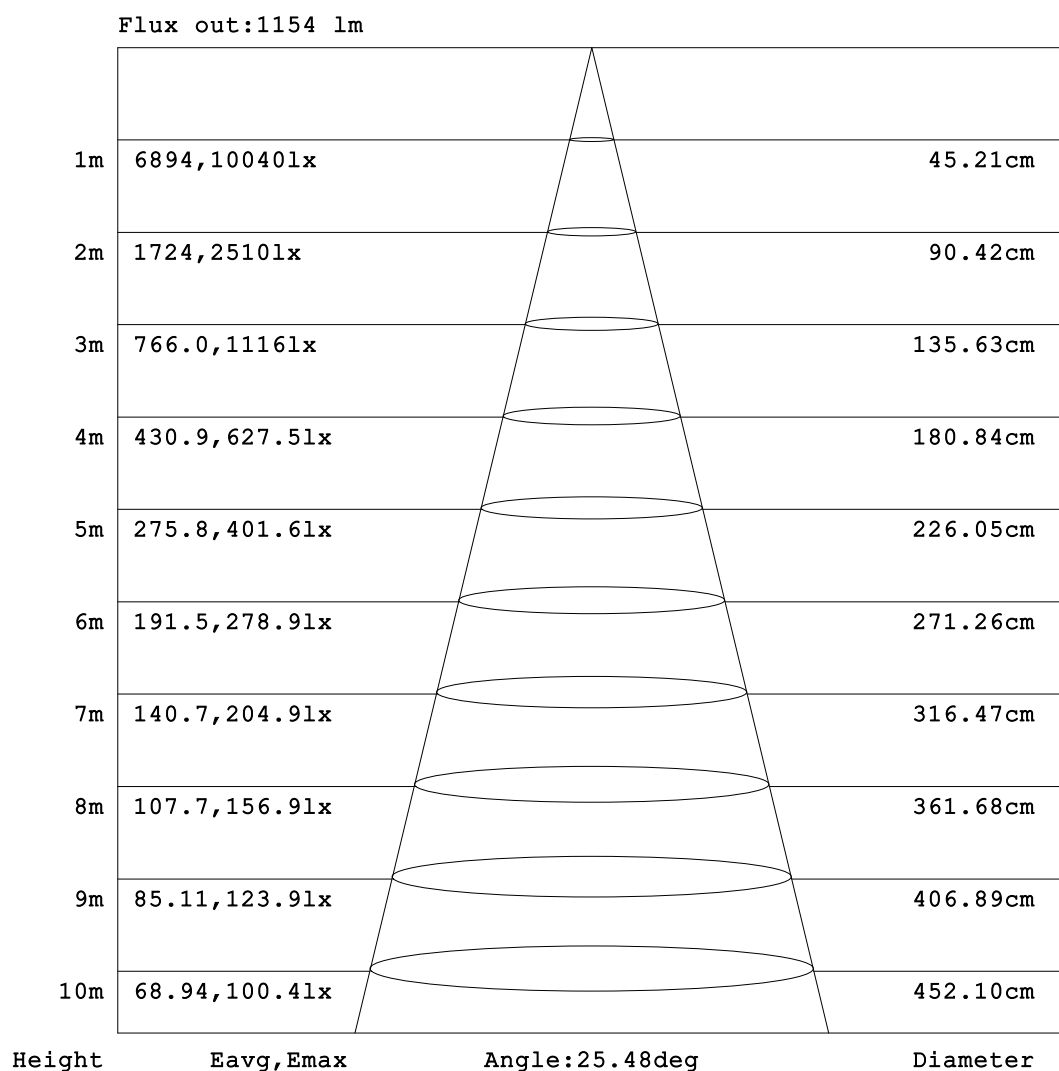
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:



## AAI Figure

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |          |                  |
| NAME: DL3564 24D 3500K CRI90  | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

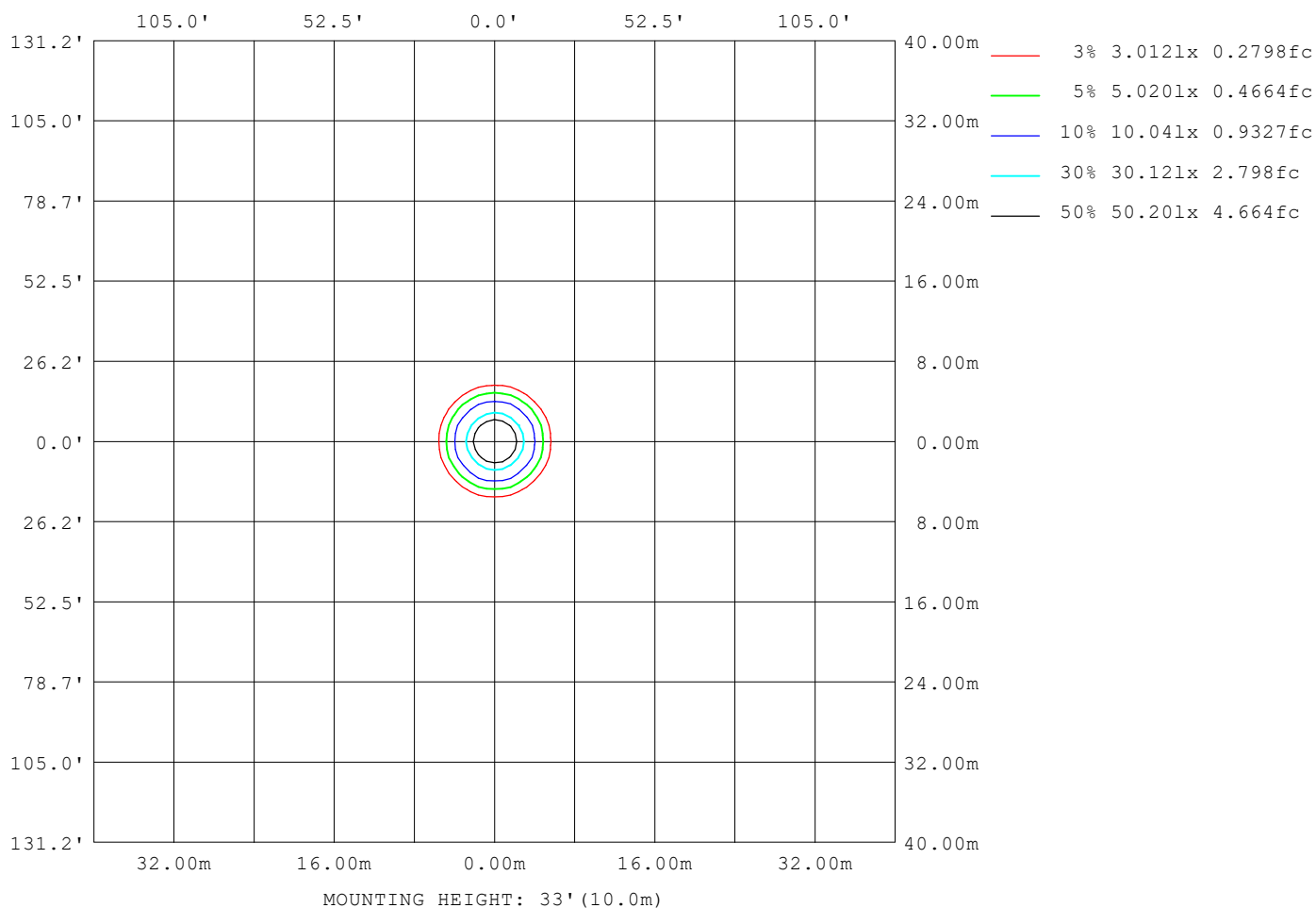


C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |          |                  |
| NAME: DL3564 24D 3500K CRI90  | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: 001  
Test Date: 2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 7.580m [K=1.0000]  
Remarks:

## LED Avg.L Report

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm |          |                  |
| NAME: DL3564 24D 3500K CRI90  | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

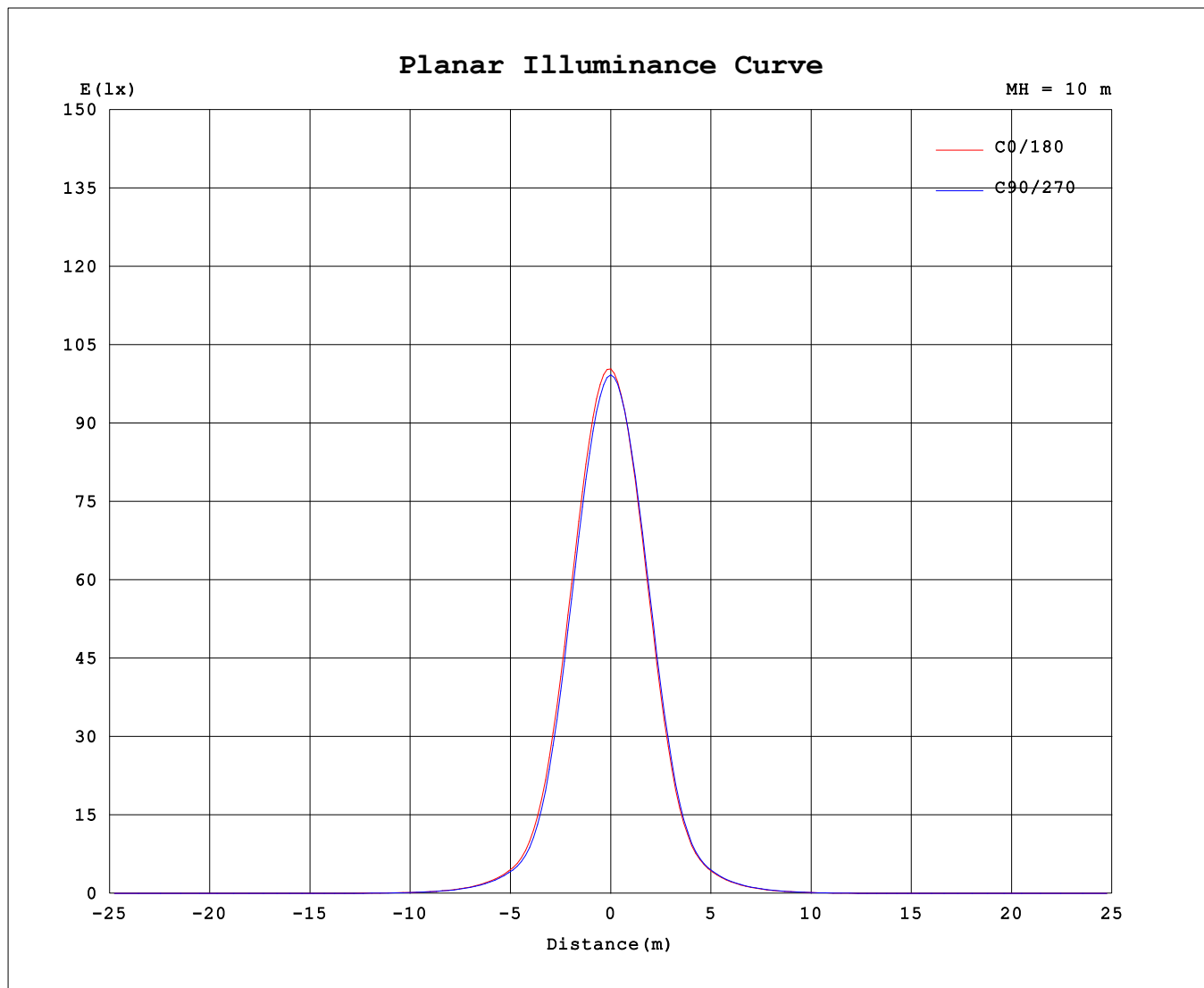
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 706   |
| L_0~180 (75) av  | 179   |
| L_0~180 (85) av  | 122   |
| L_90~270 (65) av | 694   |
| L_90~270 (75) av | 167   |
| L_90~270 (85) av | 111   |
| L_45 (65) av     | 708   |
| L_45 (75) av     | 171   |
| L_45 (85) av     | 108   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:001  
Test Date:2024-04-09

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:7.580m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: 001  
Test Date: 2024-04-09

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 7.580m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |          |                  |
|---|----------|------------------|
| Test:U:230.80V I:0.1747A P:27.783W PF:0.6891 Freq:49.99Hz |          |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2401.82x1 lm    |          |                  |
| NAME: DL3564 24D 3500K CRI90                              | TYPE:    | WEIGHT:          |
| SPEC.:  | DIM.:    | SERIAL No.:      |
| MFR.: VJC Lighting  | SUR.: 68 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 9940 | 9940 | 9940 | 9940 | 9940 | 9940  | 9940 | 9940  | 9940 | 9940  | 9940 | 9940  | 9940 | 9940  | 9940 | 9940  |  |  |  |
| 5                  | 9130 | 9150 | 9077 | 9059 | 8970 | 8943  | 8852 | 8838  | 8857 | 8832  | 8900 | 8904  | 8989 | 9018  | 9123 | 9146  |  |  |  |
| 10                 | 6768 | 6797 | 6683 | 6674 | 6550 | 6525  | 6396 | 6380  | 6417 | 6385  | 6492 | 6504  | 6645 | 6671  | 6812 | 6814  |  |  |  |
| 15                 | 3945 | 3958 | 3827 | 3817 | 3703 | 3701  | 3592 | 3596  | 3635 | 3608  | 3709 | 3721  | 3854 | 3876  | 4002 | 4005  |  |  |  |
| 20                 | 1765 | 1755 | 1657 | 1651 | 1593 | 1604  | 1555 | 1576  | 1610 | 1592  | 1644 | 1646  | 1717 | 1724  | 1793 | 1796  |  |  |  |
| 25                 | 767  | 760  | 717  | 717  | 704  | 721   | 708  | 725   | 737  | 729   | 751  | 748   | 773  | 763   | 782  | 777   |  |  |  |
| 30                 | 418  | 416  | 401  | 400  | 396  | 400   | 393  | 396   | 398  | 395   | 405  | 408   | 422  | 420   | 424  | 422   |  |  |  |
| 35                 | 226  | 226  | 220  | 220  | 216  | 217   | 211  | 212   | 211  | 208   | 214  | 216   | 226  | 226   | 230  | 229   |  |  |  |
| 40                 | 115  | 116  | 113  | 113  | 110  | 110   | 107  | 108   | 107  | 105   | 108  | 109   | 114  | 115   | 117  | 116   |  |  |  |
| 45                 | 58.6 | 58.9 | 57.0 | 56.3 | 54.6 | 54.7  | 53.3 | 53.5  | 52.6 | 51.8  | 53.4 | 53.8  | 56.1 | 57.5  | 59.4 | 59.0  |  |  |  |
| 50                 | 27.9 | 28.2 | 27.1 | 26.5 | 25.2 | 24.9  | 23.9 | 24.0  | 23.3 | 23.0  | 24.2 | 24.4  | 25.8 | 26.7  | 28.0 | 27.9  |  |  |  |
| 55                 | 10.4 | 10.5 | 9.96 | 9.62 | 9.18 | 9.12  | 8.54 | 8.31  | 7.66 | 7.81  | 8.23 | 8.34  | 9.31 | 9.65  | 10.1 | 10.1  |  |  |  |
| 60                 | 4.93 | 5.05 | 4.86 | 4.74 | 4.63 | 4.46  | 4.09 | 4.04  | 3.89 | 3.91  | 4.13 | 4.16  | 4.45 | 4.50  | 4.72 | 4.84  |  |  |  |
| 65                 | 2.24 | 2.29 | 2.29 | 2.25 | 2.09 | 1.99  | 1.87 | 1.84  | 1.82 | 1.80  | 1.82 | 1.83  | 1.90 | 2.01  | 2.16 | 2.19  |  |  |  |
| 70                 | 1.12 | 1.14 | 1.09 | 1.06 | 0.99 | 0.95  | 0.85 | 0.82  | 0.78 | 0.76  | 0.80 | 0.80  | 0.87 | 0.92  | 1.02 | 1.06  |  |  |  |
| 75                 | 0.41 | 0.42 | 0.39 | 0.37 | 0.34 | 0.29  | 0.26 | 0.24  | 0.22 | 0.22  | 0.22 | 0.23  | 0.25 | 0.29  | 0.33 | 0.37  |  |  |  |
| 80                 | 0.14 | 0.12 | 0.14 | 0.11 | 0.13 | 0.10  | 0.11 | 0.09  | 0.08 | 0.09  | 0.07 | 0.10  | 0.08 | 0.11  | 0.09 | 0.12  |  |  |  |
| 85                 | 0.10 | 0.08 | 0.10 | 0.07 | 0.09 | 0.06  | 0.08 | 0.06  | 0.04 | 0.05  | 0.03 | 0.06  | 0.04 | 0.07  | 0.05 | 0.08  |  |  |  |
| 90                 | 0.06 | 0.05 | 0.06 | 0.05 | 0.06 | 0.05  | 0.05 | 0.06  | 0.04 | 0.03  | 0.03 | 0.03  | 0.03 | 0.03  | 0.03 | 0.04  |  |  |  |
| 95                 | 0.06 | 0.07 | 0.05 | 0.07 | 0.06 | 0.07  | 0.05 | 0.08  | 0.06 | 0.03  | 0.06 | 0.03  | 0.05 | 0.03  | 0.05 | 0.03  |  |  |  |
| 100                | 0.09 | 0.10 | 0.09 | 0.11 | 0.10 | 0.11  | 0.10 | 0.12  | 0.09 | 0.07  | 0.08 | 0.06  | 0.08 | 0.06  | 0.08 | 0.05  |  |  |  |
| 105                | 0.16 | 0.17 | 0.16 | 0.18 | 0.17 | 0.18  | 0.16 | 0.19  | 0.14 | 0.11  | 0.13 | 0.10  | 0.13 | 0.10  | 0.12 | 0.10  |  |  |  |
| 110                | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29  | 0.28 | 0.29  | 0.22 | 0.19  | 0.21 | 0.19  | 0.21 | 0.19  | 0.20 | 0.18  |  |  |  |
| 115                | 0.41 | 0.41 | 0.41 | 0.42 | 0.42 | 0.43  | 0.42 | 0.43  | 0.36 | 0.34  | 0.35 | 0.34  | 0.34 | 0.33  | 0.33 | 0.33  |  |  |  |
| 120                | 0.57 | 0.57 | 0.57 | 0.58 | 0.59 | 0.58  | 0.59 | 0.60  | 0.61 | 0.60  | 0.58 | 0.58  | 0.57 | 0.58  | 0.57 | 0.57  |  |  |  |
| 125                | 0.77 | 0.76 | 0.77 | 0.77 | 0.79 | 0.78  | 0.79 | 0.78  | 1.09 | 1.09  | 1.05 | 1.05  | 1.02 | 1.04  | 1.01 | 1.03  |  |  |  |
| 130                | 1.08 | 1.07 | 1.09 | 1.09 | 1.11 | 1.11  | 1.12 | 1.12  | 2.09 | 2.08  | 2.02 | 2.01  | 1.97 | 1.98  | 1.94 | 1.95  |  |  |  |
| 135                | 1.74 | 1.73 | 1.76 | 1.77 | 1.80 | 1.81  | 1.85 | 1.84  | 3.81 | 3.82  | 3.73 | 3.72  | 3.65 | 3.65  | 3.58 | 3.59  |  |  |  |
| 140                | 3.04 | 3.05 | 3.10 | 3.11 | 3.17 | 3.18  | 3.26 | 3.24  | 6.29 | 6.29  | 6.20 | 6.18  | 6.09 | 6.07  | 5.98 | 5.98  |  |  |  |
| 145                | 5.16 | 5.15 | 5.24 | 5.26 | 5.35 | 5.36  | 5.46 | 5.46  | 9.18 | 9.18  | 9.08 | 9.07  | 8.97 | 8.95  | 8.84 | 8.84  |  |  |  |
| 150                | 7.87 | 7.87 | 7.96 | 7.99 | 8.11 | 8.13  | 8.24 | 8.24  | 11.9 | 11.9  | 11.9 | 11.8  | 11.8 | 11.7  | 11.6 | 11.6  |  |  |  |
| 155                | 10.6 | 10.6 | 10.7 | 10.8 | 10.9 | 10.9  | 11.0 | 11.0  | 14.1 | 14.0  | 14.0 | 14.0  | 13.9 | 13.9  | 13.8 | 13.7  |  |  |  |
| 160                | 12.7 | 12.7 | 12.8 | 12.9 | 13.0 | 13.0  | 13.0 | 13.0  | 15.1 | 15.0  | 15.1 | 15.1  | 15.1 | 14.9  | 14.8 | 14.8  |  |  |  |
| 165                | 13.4 | 13.5 | 13.6 | 13.7 | 13.8 | 13.8  | 13.8 | 13.7  | 14.9 | 14.8  | 14.9 | 14.9  | 14.9 | 14.8  | 14.7 | 14.6  |  |  |  |
| 170                | 12.9 | 13.0 | 13.0 | 13.2 | 13.2 | 13.2  | 13.2 | 13.2  | 13.7 | 13.8  | 13.7 | 13.6  | 13.7 | 13.6  | 13.6 | 13.6  |  |  |  |
| 175                | 12.0 | 12.2 | 12.2 | 12.2 | 12.0 | 12.2  | 12.4 | 12.4  | 12.5 | 12.6  | 12.7 | 12.4  | 12.4 | 12.5  | 12.6 | 12.4  |  |  |  |
| 180                | 12.1 | 12.2 | 12.2 | 12.0 | 12.0 | 12.0  | 12.3 | 12.1  | 12.1 | 12.1  | 12.3 | 12.0  | 12.0 | 12.0  | 12.3 | 12.1  |  |  |  |

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:001

Test Date:2024-04-09

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:7.580m [K=1.0000]

Remarks: