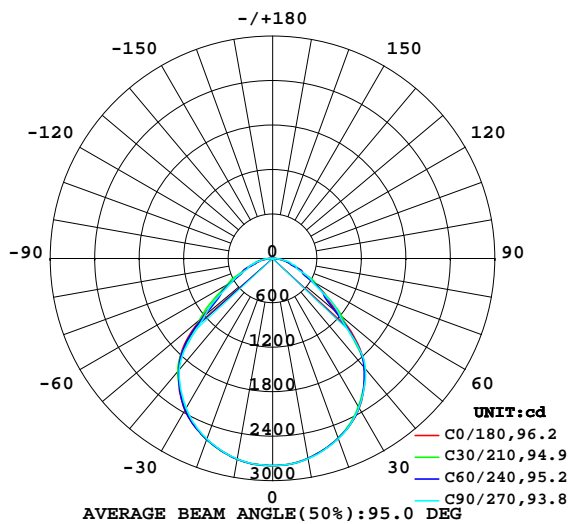


## LUMINAIRE PHOTOMETRIC TEST REPORT

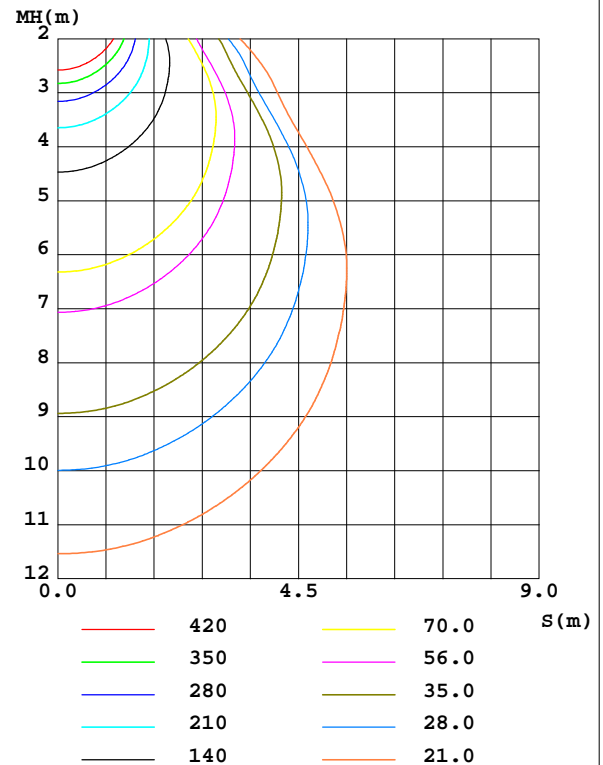
|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |

| DATA OF LAMP     |        | PHOTOMETRIC DATA |        |                        |          | Eff: 121.98 lm/W |
|------------------|--------|------------------|--------|------------------------|----------|------------------|
| MODEL            |        | Imax(cd)         | 2796   | S/MH(C0/180)           | 1.26     |                  |
| NOMINAL POWER(W) | 55     | LOR(%)           | 100.0  | S/MH(C90/270)          | 1.24     |                  |
| RATED VOLTAGE(V) | 230    | TOTAL FLUX(lm)   | 6390.5 | $\eta$ UP,DN(C0-180)   | 0.2,48.6 |                  |
| NOMINAL FLUX(lm) | 6390.5 | CIE CLASS        | DIRECT | $\eta$ UP,DN(C180-360) | 0.2,51.0 |                  |
| LAMPS INSIDE     | 1      | $\eta$ up(%)     | 0.4    | CIBSE SHR NOM          | 1.25     |                  |
| TEST VOLTAGE(V)  | 229.5  | $\eta$ down(%)   | 99.6   | CIBSE SHR MAX          | 1.35     |                  |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [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       | 2739                  | 2740   | 2745   | 2731   | 2751  | 2752  | 2749  | 2760  | 0- 10    | 264.6       | 264.6        | 4.14,4.14 |
| 20       | 2584                  | 2582   | 2588   | 2566   | 2600  | 2601  | 2593  | 2616  | 10- 20   | 756.1       | 1021         | 16,16     |
| 30       | 2333                  | 2321   | 2325   | 2299   | 2368  | 2356  | 2337  | 2379  | 20- 30   | 1143        | 2163         | 33.9,33.9 |
| 40       | 1934                  | 1927   | 1950   | 1892   | 1980  | 1982  | 1962  | 2008  | 30- 40   | 1350        | 3514         | 55,55     |
| 50       | 1151                  | 1155   | 1174   | 1121   | 1274  | 1245  | 1191  | 1280  | 40- 50   | 1236        | 4750         | 74.3,74.3 |
| 60       | 621.0                 | 632.0  | 615.3  | 609.7  | 684.2 | 680.1 | 642.4 | 701.8 | 50- 60   | 806.7       | 5556         | 86.9,86.9 |
| 70       | 322.0                 | 321.7  | 347.9  | 308.1  | 361.5 | 347.6 | 348.2 | 358.3 | 60- 70   | 468.2       | 6025         | 94.3,94.3 |
| 80       | 146.4                 | 152.3  | 154.0  | 142.6  | 169.0 | 165.1 | 161.0 | 182.2 | 70- 80   | 255.4       | 6280         | 98.3,98.3 |
| 90       | 0.9351                | 0.9259 | 0.9042 | 0.9610 | 2.966 | 4.129 | 1.249 | 10.46 | 80- 90   | 81.82       | 6362         | 99.6,99.6 |
| 100      | 2.046                 | 2.046  | 1.957  | 2.122  | 2.025 | 2.001 | 2.014 | 1.906 | 90-100   | 1.702       | 6364         | 99.6,99.6 |
| 110      | 3.641                 | 3.634  | 3.531  | 3.735  | 3.539 | 3.485 | 3.473 | 3.348 | 100-110  | 2.922       | 6366         | 99.6,99.6 |
| 120      | 5.026                 | 5.046  | 5.009  | 5.160  | 4.965 | 4.893 | 4.832 | 4.721 | 110-120  | 4.249       | 6371         | 99.7,99.7 |
| 130      | 5.773                 | 5.859  | 5.866  | 5.956  | 5.736 | 5.668 | 5.593 | 5.495 | 120-130  | 4.838       | 6376         | 99.8,99.8 |
| 140      | 6.179                 | 6.282  | 6.335  | 6.394  | 6.143 | 6.055 | 5.979 | 5.862 | 130-140  | 4.608       | 6380         | 99.8,99.8 |
| 150      | 6.926                 | 7.039  | 7.094  | 7.153  | 6.866 | 6.772 | 6.734 | 6.576 | 140-150  | 4.042       | 6384         | 99.9,99.9 |
| 160      | 7.545                 | 7.646  | 7.628  | 7.700  | 7.521 | 7.465 | 7.409 | 7.347 | 150-160  | 3.343       | 6388         | 100,100   |
| 170      | 7.934                 | 7.966  | 8.021  | 7.969  | 7.951 | 7.858 | 7.931 | 7.787 | 160-170  | 2.188       | 6390         | 100,100   |
| 180      | 8.204                 | 8.137  | 8.206  | 8.119  | 8.206 | 8.137 | 8.206 | 8.119 | 170-180  | 0.7646      | 6391         | 100,100   |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |       |       |       |       |          | UNIT: lm    |              |           |

Conical surface Flux(90deg): 4182.1 lm

%lum = 65.4%

%lamp = 65.4%

Conical surface Flux(130deg): 5823.6 lm

%lum = 91.1%

%lamp = 91.1%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:Mr.Ma  
 Test Date:2024-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:6.100m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz

Lamp Flux:6390.5x1 lm

NAME: LED348 (55W 4000K Uplight off)

TYPE:

WEIGHT:

SPEC.:

DIM.:

SERIAL No.:

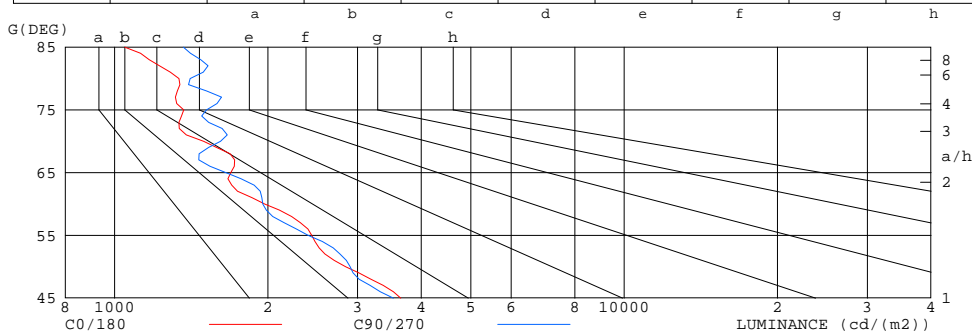
MFR.:

SUR.:

Shielding Angle:

## 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      | 1048   | 1365    |
| 80      | 1338   | 1408    |
| 75      | 1367   | 1514    |
| 70      | 1494   | 1615    |
| 65      | 1691   | 1655    |
| 60      | 1971   | 1953    |
| 55      | 2439   | 2399    |
| 50      | 2844   | 2899    |
| 45      | 3644   | 3523    |

C Range: 0 - 360DEG

C Interval: 30.0DEG

Test Speed: HIGH

Temperature: 25.3°C

Operators: Mr.Ma

Test Date: 2024-10-11

 $\gamma$  Range: 0 - 180DEG $\gamma$  Interval: 1.0DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459

Humidity: 65.0%

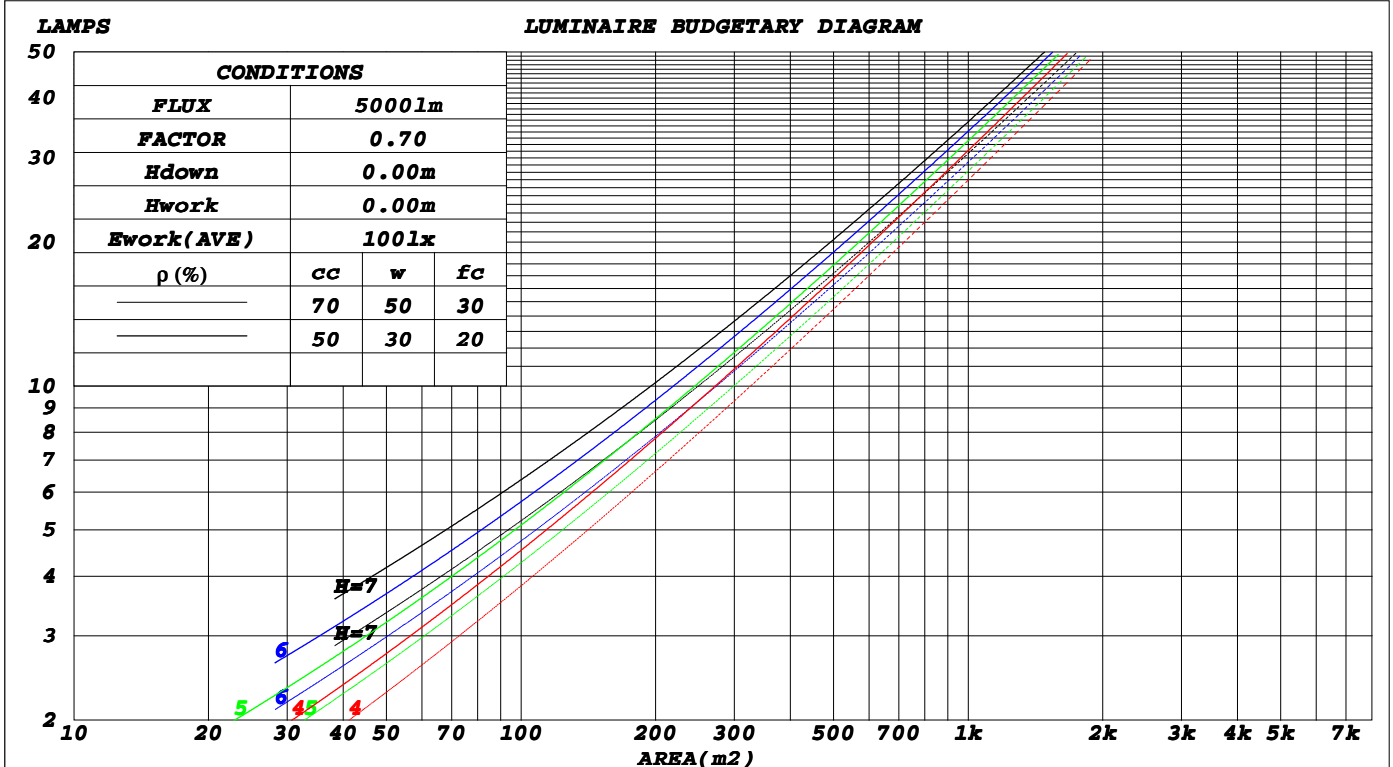
Test Distance: 6.100m [K=1.0000]

Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |

| $\rho_{cc}$ | 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 | .00 |
| 1.0         | 1.06                                                       | 1.02 | .99  | 1.04 | 1.00 | .97  | .99  | .97  | .94  | .95  | .93  | .91  | .92  | .90  | .88  | .86 |
| 2.0         | .94                                                        | .88  | .83  | .92  | .87  | .82  | .89  | .84  | .80  | .85  | .81  | .78  | .82  | .79  | .76  | .74 |
| 3.0         | .84                                                        | .76  | .71  | .82  | .75  | .70  | .79  | .73  | .69  | .77  | .72  | .67  | .74  | .70  | .66  | .64 |
| 4.0         | .75                                                        | .67  | .61  | .74  | .66  | .61  | .71  | .65  | .60  | .69  | .63  | .59  | .67  | .62  | .58  | .56 |
| 5.0         | .68                                                        | .60  | .53  | .67  | .59  | .53  | .65  | .58  | .53  | .63  | .57  | .52  | .61  | .56  | .51  | .49 |
| 6.0         | .62                                                        | .53  | .47  | .61  | .53  | .47  | .59  | .52  | .47  | .57  | .51  | .46  | .56  | .50  | .46  | .44 |
| 7.0         | .56                                                        | .48  | .42  | .55  | .48  | .42  | .54  | .47  | .42  | .52  | .46  | .41  | .51  | .45  | .41  | .39 |
| 8.0         | .51                                                        | .43  | .38  | .51  | .43  | .38  | .49  | .43  | .38  | .48  | .42  | .37  | .47  | .41  | .37  | .35 |
| 9.0         | .47                                                        | .40  | .34  | .47  | .39  | .34  | .46  | .39  | .34  | .45  | .38  | .34  | .44  | .38  | .34  | .32 |
| 10.0        | .44                                                        | .36  | .31  | .43  | .36  | .31  | .42  | .36  | .31  | .41  | .35  | .31  | .40  | .35  | .31  | .29 |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr.Ma  
Test Date: 2024-10-11

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

**WEC AND CCEC**

|                                                                                    |  |  |       |  |                  |
|------------------------------------------------------------------------------------|--|--|-------|--|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |  |  |       |  |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               |  |  | TYPE: |  | WEIGHT:          |
| SPEC.:                                                                             |  |  | DIM.: |  | SERIAL No.:      |
| MFR.:                                                                              |  |  | SUR.: |  | Shielding Angle: |

| $\rho_{cc}$ | 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         | .270                  | .153 | .049 | .263 | .150 | .048 | .249                            | .143 | .046 | .237 | .137 | .044 | .226 | .131 | .042 |   |  |
| 2.0         | .257                  | .141 | .043 | .251 | .138 | .043 | .239                            | .133 | .041 | .228 | .128 | .040 | .218 | .124 | .039 |   |  |
| 3.0         | .241                  | .128 | .038 | .235 | .126 | .038 | .225                            | .122 | .037 | .216 | .118 | .036 | .207 | .115 | .035 |   |  |
| 4.0         | .225                  | .117 | .034 | .220 | .115 | .034 | .211                            | .112 | .033 | .203 | .109 | .033 | .195 | .106 | .032 |   |  |
| 5.0         | .210                  | .107 | .031 | .206 | .106 | .031 | .198                            | .103 | .030 | .191 | .101 | .030 | .184 | .098 | .029 |   |  |
| 6.0         | .197                  | .099 | .028 | .193 | .098 | .028 | .186                            | .095 | .028 | .179 | .093 | .027 | .173 | .091 | .027 |   |  |
| 7.0         | .185                  | .091 | .026 | .182 | .090 | .026 | .175                            | .089 | .025 | .169 | .087 | .025 | .164 | .085 | .025 |   |  |
| 8.0         | .174                  | .085 | .024 | .171 | .084 | .024 | .165                            | .083 | .024 | .160 | .081 | .023 | .155 | .079 | .023 |   |  |
| 9.0         | .164                  | .079 | .022 | .161 | .079 | .022 | .156                            | .077 | .022 | .151 | .076 | .022 | .147 | .074 | .022 |   |  |
| 10.0        | .155                  | .074 | .021 | .153 | .074 | .021 | .148                            | .072 | .020 | .144 | .071 | .020 | .139 | .070 | .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         | .194                                                                                  | .194 | .194 | .166 | .166 | .166 | .113 | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 |   |
| 1.0         | .181                                                                                  | .160 | .141 | .155 | .137 | .121 | .106 | .094 | .084 | .061 | .055 | .049 | .020 | .018 | .016 |   |
| 2.0         | .171                                                                                  | .136 | .106 | .147 | .117 | .091 | .100 | .081 | .064 | .058 | .047 | .037 | .019 | .015 | .012 |   |
| 3.0         | .162                                                                                  | .118 | .082 | .139 | .101 | .071 | .096 | .070 | .050 | .055 | .041 | .029 | .018 | .013 | .010 |   |
| 4.0         | .154                                                                                  | .104 | .065 | .132 | .090 | .057 | .091 | .063 | .040 | .053 | .037 | .024 | .017 | .012 | .008 |   |
| 5.0         | .147                                                                                  | .093 | .054 | .126 | .081 | .047 | .087 | .056 | .033 | .050 | .033 | .020 | .016 | .011 | .006 |   |
| 6.0         | .140                                                                                  | .085 | .045 | .120 | .073 | .039 | .083 | .051 | .028 | .048 | .030 | .017 | .016 | .010 | .005 |   |
| 7.0         | .134                                                                                  | .078 | .039 | .115 | .067 | .034 | .079 | .047 | .024 | .046 | .028 | .014 | .015 | .009 | .005 |   |
| 8.0         | .128                                                                                  | .072 | .034 | .110 | .062 | .029 | .076 | .044 | .021 | .044 | .026 | .012 | .014 | .008 | .004 |   |
| 9.0         | .122                                                                                  | .067 | .030 | .105 | .058 | .026 | .073 | .041 | .019 | .042 | .024 | .011 | .014 | .008 | .004 |   |
| 10.0        | .117                                                                                  | .063 | .027 | .101 | .055 | .023 | .070 | .038 | .017 | .041 | .023 | .010 | .013 | .007 | .003 |   |

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3°C  
**Operators:** Mr.Ma  
**Test Date:** 2024-10-11

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
**Humidity:** 65.0%  
**Test Distance:** 6.100m [K=1.0000]  
**Remarks:**

**UGR(Unified Glare Rating) Table**

|                                                                                    |                         |             |             |             |             |                       |             |                  |             |             |
|------------------------------------------------------------------------------------|-------------------------|-------------|-------------|-------------|-------------|-----------------------|-------------|------------------|-------------|-------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |                         |             |             |             |             |                       |             |                  |             |             |
| NAME: LED348 (55W 4000K Uplight off)                                               |                         |             |             |             | TYPE:       |                       |             | WEIGHT:          |             |             |
| SPEC.:                                                                             |                         |             |             |             | DIM.:       |                       |             | SERIAL No.:      |             |             |
| MFR.:                                                                              |                         |             |             |             | SUR.:       |                       |             | Shielding Angle: |             |             |
| <b>ceiling/cavity</b>                                                              | <b>0.7</b>              | <b>0.7</b>  | <b>0.5</b>  | <b>0.5</b>  | <b>0.3</b>  | <b>0.7</b>            | <b>0.7</b>  | <b>0.5</b>       | <b>0.5</b>  | <b>0.3</b>  |
| <b>walls</b>                                                                       | <b>0.5</b>              | <b>0.3</b>  | <b>0.5</b>  | <b>0.3</b>  | <b>0.3</b>  | <b>0.5</b>            | <b>0.3</b>  | <b>0.5</b>       | <b>0.3</b>  | <b>0.3</b>  |
| <b>working plane</b>                                                               | <b>0.2</b>              | <b>0.2</b>  | <b>0.2</b>  | <b>0.2</b>  | <b>0.2</b>  | <b>0.2</b>            | <b>0.2</b>  | <b>0.2</b>       | <b>0.2</b>  | <b>0.2</b>  |
| <b>Room dimensions</b>                                                             | <b>Viewed crosswise</b> |             |             |             |             | <b>Viewed endwise</b> |             |                  |             |             |
| <b>x = 2H y = 2H</b>                                                               | <b>9.0</b>              | <b>10.4</b> | <b>9.2</b>  | <b>10.6</b> | <b>10.8</b> | <b>8.8</b>            | <b>10.1</b> | <b>9.0</b>       | <b>10.3</b> | <b>10.5</b> |
| <b>3H</b>                                                                          | <b>9.7</b>              | <b>11.0</b> | <b>10.0</b> | <b>11.2</b> | <b>11.4</b> | <b>9.5</b>            | <b>10.8</b> | <b>9.8</b>       | <b>11.0</b> | <b>11.2</b> |
| <b>4H</b>                                                                          | <b>10.0</b>             | <b>11.2</b> | <b>10.3</b> | <b>11.4</b> | <b>11.7</b> | <b>9.8</b>            | <b>11.1</b> | <b>10.2</b>      | <b>11.3</b> | <b>11.6</b> |
| <b>6H</b>                                                                          | <b>10.2</b>             | <b>11.4</b> | <b>10.6</b> | <b>11.6</b> | <b>11.9</b> | <b>10.2</b>           | <b>11.3</b> | <b>10.5</b>      | <b>11.6</b> | <b>11.9</b> |
| <b>8H</b>                                                                          | <b>10.3</b>             | <b>11.4</b> | <b>10.7</b> | <b>11.7</b> | <b>12.0</b> | <b>10.3</b>           | <b>11.4</b> | <b>10.7</b>      | <b>11.7</b> | <b>12.0</b> |
| <b>12H</b>                                                                         | <b>10.4</b>             | <b>11.4</b> | <b>10.7</b> | <b>11.7</b> | <b>12.0</b> | <b>10.4</b>           | <b>11.4</b> | <b>10.8</b>      | <b>11.7</b> | <b>12.0</b> |
| <b>4H 2H</b>                                                                       | <b>9.2</b>              | <b>10.4</b> | <b>9.5</b>  | <b>10.7</b> | <b>10.9</b> | <b>9.0</b>            | <b>10.2</b> | <b>9.3</b>       | <b>10.5</b> | <b>10.7</b> |
| <b>3H</b>                                                                          | <b>10.1</b>             | <b>11.2</b> | <b>10.5</b> | <b>11.5</b> | <b>11.8</b> | <b>9.9</b>            | <b>11.0</b> | <b>10.3</b>      | <b>11.3</b> | <b>11.6</b> |
| <b>4H</b>                                                                          | <b>10.6</b>             | <b>11.5</b> | <b>11.0</b> | <b>11.9</b> | <b>12.2</b> | <b>10.4</b>           | <b>11.4</b> | <b>10.8</b>      | <b>11.7</b> | <b>12.0</b> |
| <b>6H</b>                                                                          | <b>11.0</b>             | <b>11.8</b> | <b>11.4</b> | <b>12.2</b> | <b>12.5</b> | <b>10.9</b>           | <b>11.7</b> | <b>11.3</b>      | <b>12.1</b> | <b>12.5</b> |
| <b>8H</b>                                                                          | <b>11.1</b>             | <b>11.9</b> | <b>11.5</b> | <b>12.3</b> | <b>12.7</b> | <b>11.1</b>           | <b>11.9</b> | <b>11.5</b>      | <b>12.2</b> | <b>12.6</b> |
| <b>12H</b>                                                                         | <b>11.2</b>             | <b>11.9</b> | <b>11.6</b> | <b>12.3</b> | <b>12.7</b> | <b>11.2</b>           | <b>11.9</b> | <b>11.7</b>      | <b>12.3</b> | <b>12.7</b> |
| <b>8H 4H</b>                                                                       | <b>10.7</b>             | <b>11.5</b> | <b>11.2</b> | <b>11.9</b> | <b>12.3</b> | <b>10.6</b>           | <b>11.4</b> | <b>11.0</b>      | <b>11.7</b> | <b>12.1</b> |
| <b>6H</b>                                                                          | <b>11.3</b>             | <b>11.9</b> | <b>11.7</b> | <b>12.3</b> | <b>12.8</b> | <b>11.2</b>           | <b>11.8</b> | <b>11.6</b>      | <b>12.2</b> | <b>12.7</b> |
| <b>8H</b>                                                                          | <b>11.5</b>             | <b>12.1</b> | <b>12.0</b> | <b>12.5</b> | <b>13.0</b> | <b>11.5</b>           | <b>12.0</b> | <b>11.9</b>      | <b>12.5</b> | <b>12.9</b> |
| <b>12H</b>                                                                         | <b>11.7</b>             | <b>12.2</b> | <b>12.2</b> | <b>12.6</b> | <b>13.1</b> | <b>11.7</b>           | <b>12.2</b> | <b>12.2</b>      | <b>12.6</b> | <b>13.1</b> |
| <b>12H 4H</b>                                                                      | <b>10.7</b>             | <b>11.5</b> | <b>11.2</b> | <b>11.8</b> | <b>12.3</b> | <b>10.6</b>           | <b>11.3</b> | <b>11.0</b>      | <b>11.7</b> | <b>12.1</b> |
| <b>6H</b>                                                                          | <b>11.3</b>             | <b>11.9</b> | <b>11.8</b> | <b>12.3</b> | <b>12.8</b> | <b>11.2</b>           | <b>11.8</b> | <b>11.7</b>      | <b>12.2</b> | <b>12.7</b> |
| <b>8H</b>                                                                          | <b>11.6</b>             | <b>12.1</b> | <b>12.1</b> | <b>12.5</b> | <b>13.0</b> | <b>11.5</b>           | <b>12.0</b> | <b>12.0</b>      | <b>12.5</b> | <b>13.0</b> |
| <b>Variations with the observer position at spacings(CIE Pub.117):</b>             |                         |             |             |             |             |                       |             |                  |             |             |
| <b>S = 1.0H</b>                                                                    | <b>+ 0.4 / - 0.4</b>    |             |             |             |             | <b>+ 0.5 / - 0.6</b>  |             |                  |             |             |
| <b>1.5H</b>                                                                        | <b>+ 0.3 / - 0.5</b>    |             |             |             |             | <b>+ 0.2 / - 0.2</b>  |             |                  |             |             |
| <b>2.0H</b>                                                                        | <b>+ 0.9 / - 0.8</b>    |             |             |             |             | <b>+ 1.1 / - 0.9</b>  |             |                  |             |             |

CIE Pub.117, 6391 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 6.4$ )  
 Area: 0.63 m<sup>2</sup>

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:Mr.Ma  
 Test Date:2024-10-11

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
 Humidity:65.0%  
 Test Distance:6.100m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |

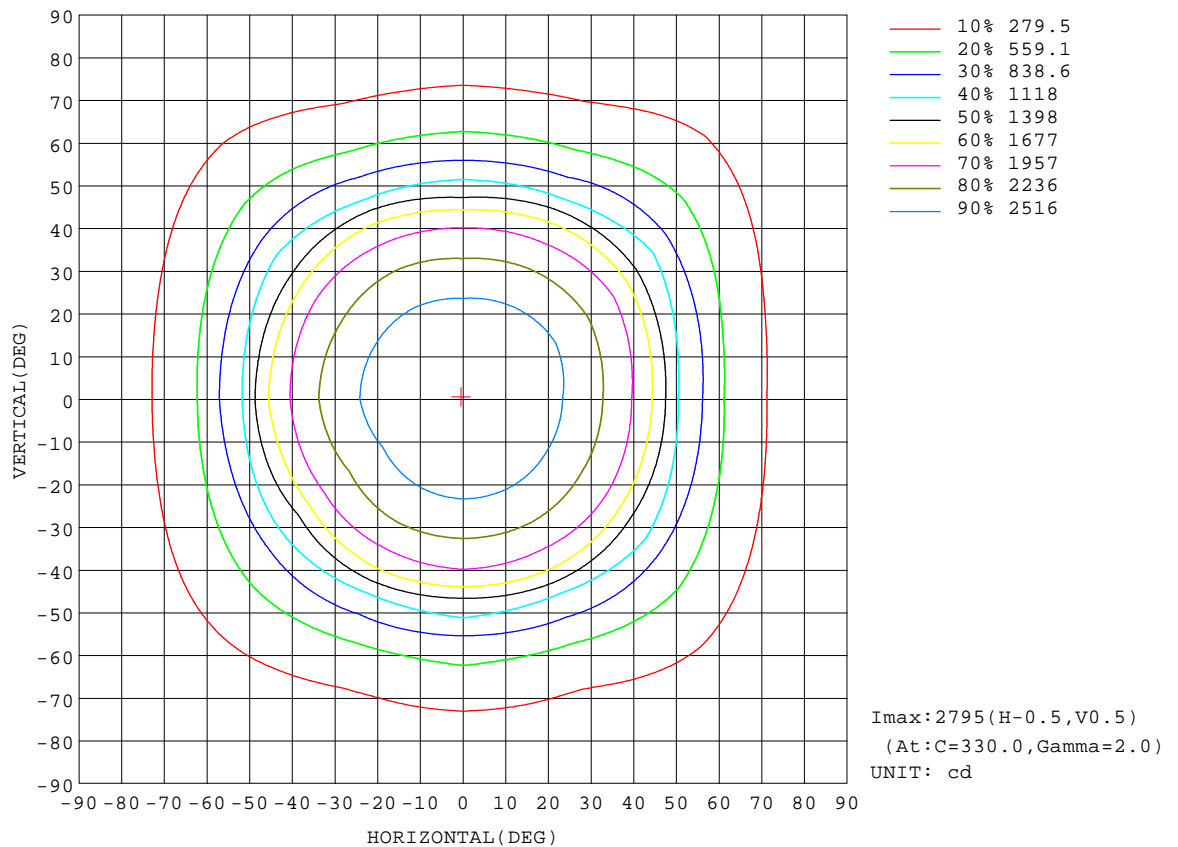
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 63                                                  | 53  | 47        | 63  | 53  | 46  | 62  | 52            | 46  | 40     |
| 0.80                             | 73                                                  | 63  | 57        | 72  | 63  | 56  | 71  | 62            | 56  | 50     |
| 1.00                             | 82                                                  | 72  | 65        | 80  | 71  | 65  | 78  | 72            | 65  | 58     |
| 1.25                             | 88                                                  | 79  | 73        | 87  | 78  | 73  | 84  | 77            | 72  | 65     |
| 1.50                             | 93                                                  | 84  | 78        | 91  | 83  | 78  | 88  | 82            | 77  | 70     |
| 2.00                             | 99                                                  | 91  | 86        | 97  | 90  | 85  | 94  | 88            | 84  | 76     |
| 2.50                             | 102                                                 | 95  | 90        | 100 | 94  | 89  | 96  | 91            | 87  | 80     |
| 3.00                             | 105                                                 | 99  | 94        | 103 | 97  | 93  | 99  | 94            | 91  | 83     |
| 4.00                             | 108                                                 | 103 | 99        | 106 | 101 | 98  | 102 | 98            | 95  | 87     |
| 5.00                             | 110                                                 | 106 | 102       | 108 | 104 | 101 | 103 | 100           | 98  | 89     |
| ROOM INDEX                       | UF(total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                     |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3°C  
**Operators:** Mr.Ma  
**Test Date:** 2024-10-11

**γ Range:** 0 - 180DEG  
**γ Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
**Humidity:** 65.0%  
**Test Distance:** 6.100m [K=1.0000]  
**Remarks:**

**ISOCANDELA DIAGRAM**

|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |



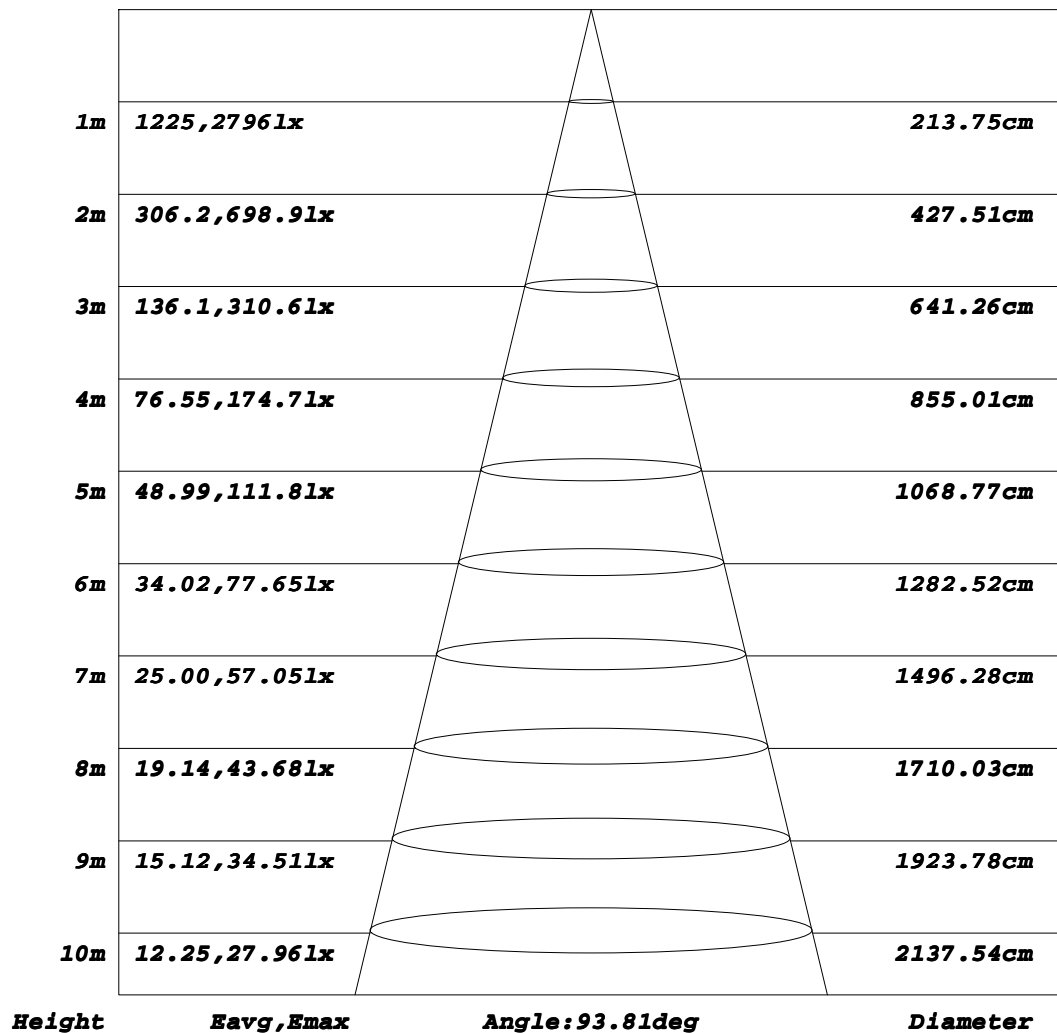
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3°C**  
**Operators: Mr.Ma**  
**Test Date: 2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**



**AAI Figure**

|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |

**Flux out:4425 lm**


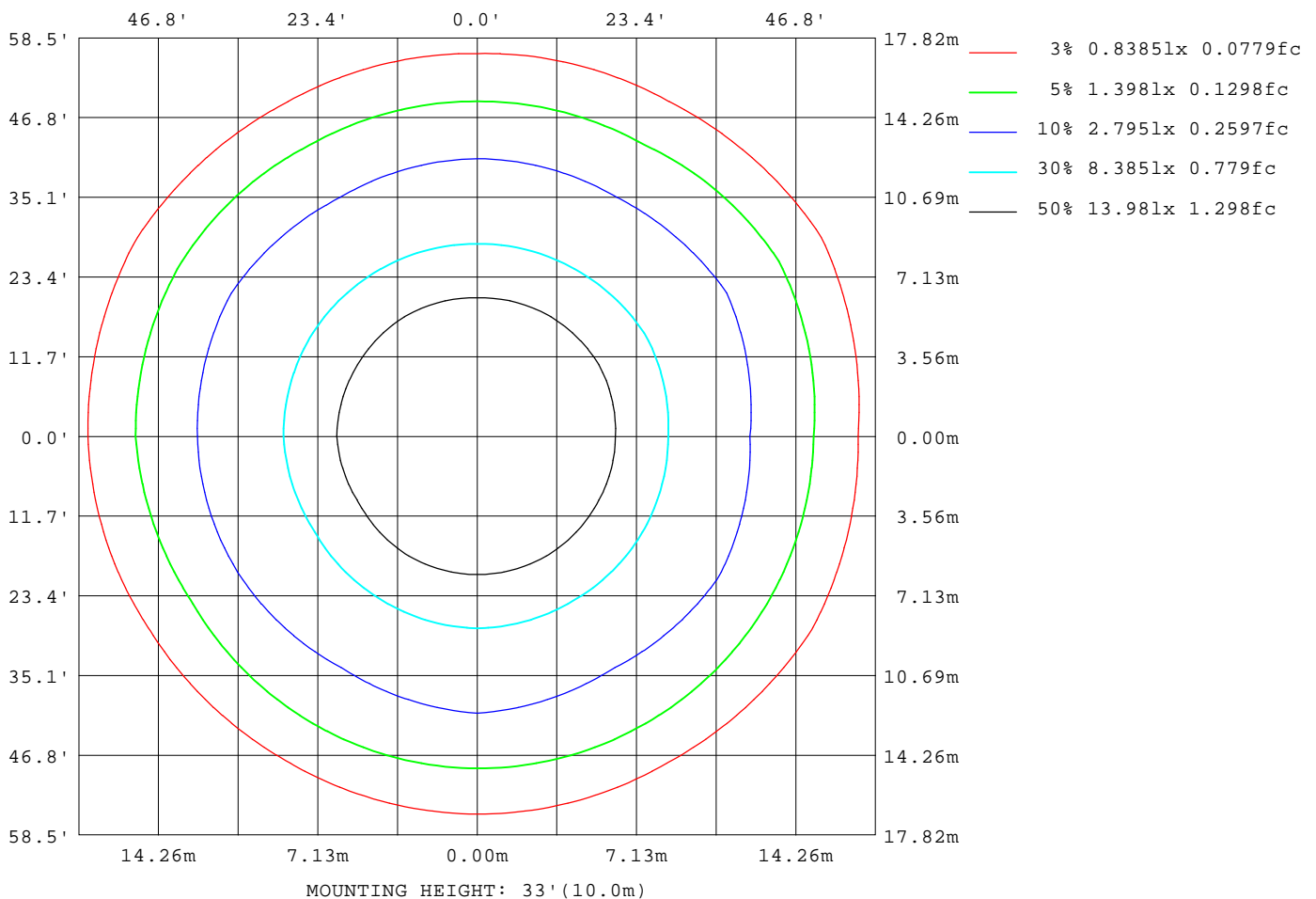
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3°C  
**Operators:** Mr.Ma  
**Test Date:** 2024-10-11

**γ Range:** 0 - 180DEG  
**γ Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
**Humidity:** 65.0%  
**Test Distance:** 6.100m [K=1.0000]  
**Remarks:**

**ISOLUX DIAGRAM**

|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: Mr. Ma  
Test Date: 2024-10-11

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459  
Humidity: 65.0%  
Test Distance: 6.100m [K=1.0000]  
Remarks:

### LED Avg.L Report

|                                                                                    |       |                  |
|------------------------------------------------------------------------------------|-------|------------------|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |       |                  |
| NAME: LED348 (55W 4000K Uplight off)                                               | TYPE: | WEIGHT:          |
| SPEC.:                                                                             | DIM.: | SERIAL No.:      |
| MFR.:                                                                              | SUR.: | Shielding Angle: |

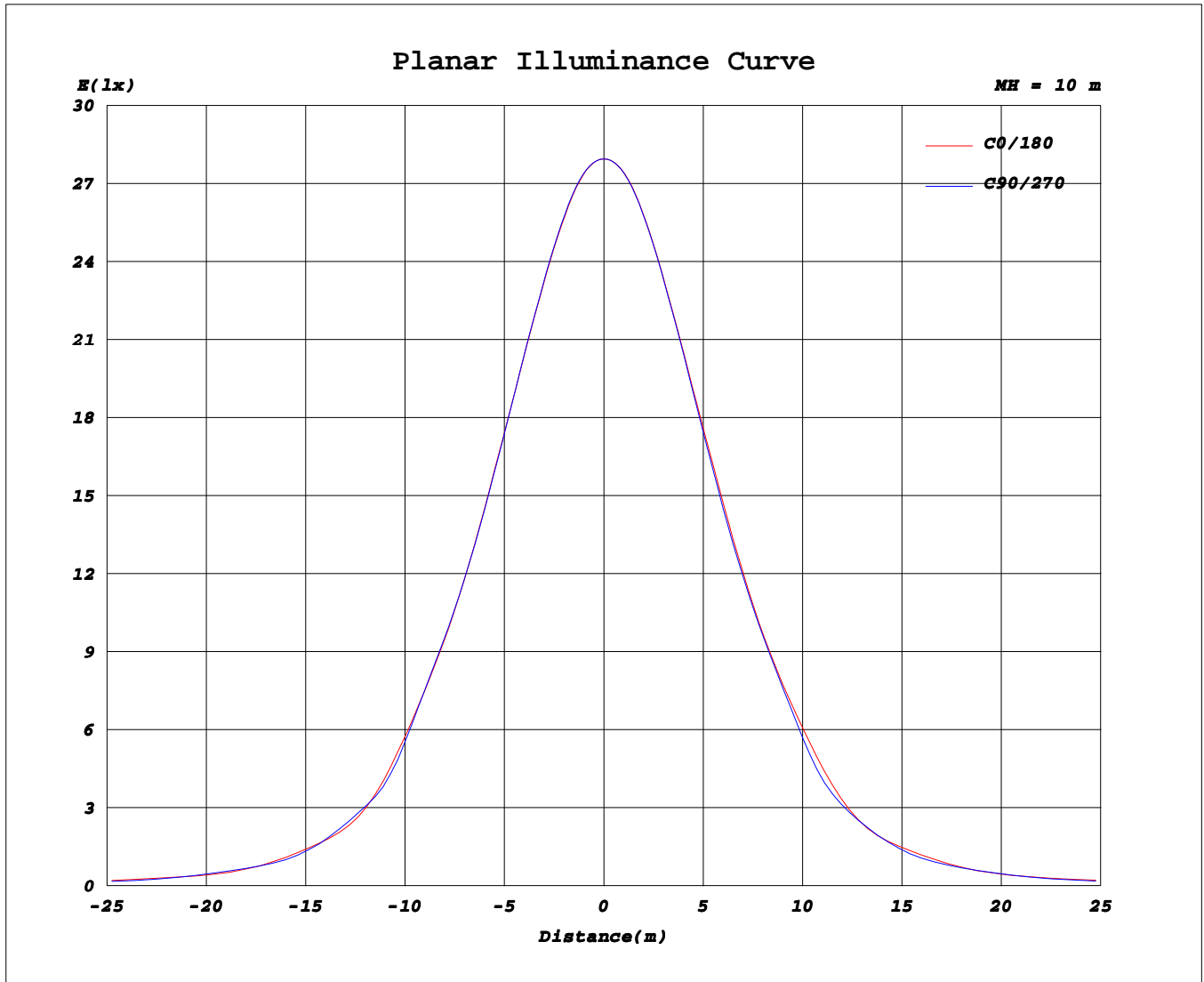
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 1722  |
| L_0~180(75)av  | 1414  |
| L_0~180(85)av  | 1223  |
| L_90~270(65)av | 1692  |
| L_90~270(75)av | 1530  |
| L_90~270(85)av | 1448  |
| L_45(65)av     | 1744  |
| L_45(75)av     | 1487  |
| L_45(85)av     | 1344  |

Standard: GB/T 29293-2012

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3℃**  
**Operators:Mr.Ma**  
**Test Date:2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity:65.0%**  
**Test Distance:6.100m [K=1.0000]**  
**Remarks:**

**Planar Illuminance Curve**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3°C**  
**Operators: Mr.Ma**  
**Test Date: 2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

|                                                                                    |  |  |  |  |  |  |  |  |       |  |  |                  |  |  |  |  |  |
|------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|-------|--|--|------------------|--|--|--|--|--|
| Test:U:228.83V I:0.2359A P:52.389W PF:0.9705 Freq:50.00Hz<br>Lamp Flux:6390.5x1 lm |  |  |  |  |  |  |  |  |       |  |  |                  |  |  |  |  |  |
| NAME: LED348 (55W 4000K Uplight off)                                               |  |  |  |  |  |  |  |  | TYPE: |  |  | WEIGHT:          |  |  |  |  |  |
| SPEC.:                                                                             |  |  |  |  |  |  |  |  | DIM.: |  |  | SERIAL No.:      |  |  |  |  |  |
| MFR.:                                                                              |  |  |  |  |  |  |  |  | SUR.: |  |  | Shielding Angle: |  |  |  |  |  |

Table--1

UNIT: cd

| C(°) \ γ (°) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0            | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 | 2795 |  |  |  |  |  |  |
| 5            | 2783 | 2784 | 2785 | 2785 | 2782 | 2777 | 2787 | 2788 | 2788 | 2786 | 2789 | 2793 |  |  |  |  |  |  |
| 10           | 2739 | 2740 | 2741 | 2745 | 2737 | 2726 | 2751 | 2752 | 2752 | 2749 | 2755 | 2765 |  |  |  |  |  |  |
| 15           | 2671 | 2671 | 2672 | 2678 | 2666 | 2652 | 2686 | 2686 | 2687 | 2682 | 2692 | 2706 |  |  |  |  |  |  |
| 20           | 2584 | 2580 | 2584 | 2588 | 2576 | 2557 | 2600 | 2601 | 2601 | 2593 | 2608 | 2625 |  |  |  |  |  |  |
| 25           | 2476 | 2464 | 2475 | 2475 | 2466 | 2435 | 2498 | 2491 | 2497 | 2481 | 2505 | 2522 |  |  |  |  |  |  |
| 30           | 2333 | 2314 | 2329 | 2325 | 2320 | 2278 | 2368 | 2350 | 2363 | 2337 | 2373 | 2386 |  |  |  |  |  |  |
| 35           | 2146 | 2141 | 2140 | 2150 | 2130 | 2100 | 2191 | 2181 | 2187 | 2163 | 2195 | 2221 |  |  |  |  |  |  |
| 40           | 1934 | 1936 | 1918 | 1950 | 1901 | 1883 | 1980 | 1992 | 1972 | 1962 | 1982 | 2034 |  |  |  |  |  |  |
| 45           | 1623 | 1547 | 1587 | 1569 | 1570 | 1476 | 1719 | 1677 | 1689 | 1611 | 1700 | 1760 |  |  |  |  |  |  |
| 50           | 1151 | 1219 | 1091 | 1174 | 1076 | 1165 | 1274 | 1279 | 1212 | 1191 | 1230 | 1329 |  |  |  |  |  |  |
| 55           | 881  | 892  | 838  | 867  | 824  | 838  | 913  | 990  | 868  | 899  | 871  | 1051 |  |  |  |  |  |  |
| 60           | 621  | 666  | 598  | 615  | 588  | 632  | 684  | 711  | 649  | 642  | 662  | 742  |  |  |  |  |  |  |
| 65           | 450  | 441  | 441  | 441  | 431  | 419  | 467  | 512  | 454  | 461  | 454  | 553  |  |  |  |  |  |  |
| 70           | 322  | 346  | 297  | 348  | 295  | 321  | 361  | 351  | 344  | 348  | 355  | 361  |  |  |  |  |  |  |
| 75           | 223  | 256  | 221  | 247  | 224  | 234  | 238  | 259  | 236  | 252  | 230  | 276  |  |  |  |  |  |  |
| 80           | 146  | 154  | 151  | 154  | 146  | 140  | 169  | 171  | 159  | 161  | 166  | 199  |  |  |  |  |  |  |
| 85           | 57.5 | 65.5 | 61.3 | 75.0 | 56.2 | 49.5 | 76.8 | 89.4 | 76.4 | 84.1 | 79.9 | 112  |  |  |  |  |  |  |
| 90           | 0.94 | 0.94 | 0.91 | 0.90 | 0.92 | 1.00 | 2.97 | 4.37 | 3.89 | 1.25 | 4.76 | 16.2 |  |  |  |  |  |  |
| 95           | 1.38 | 1.40 | 1.37 | 1.33 | 1.39 | 1.53 | 1.41 | 1.42 | 1.39 | 1.43 | 1.36 | 1.31 |  |  |  |  |  |  |
| 100          | 2.05 | 2.06 | 2.03 | 1.96 | 2.04 | 2.21 | 2.03 | 2.03 | 1.97 | 2.01 | 1.93 | 1.88 |  |  |  |  |  |  |
| 105          | 2.82 | 2.85 | 2.79 | 2.72 | 2.82 | 3.01 | 2.74 | 2.74 | 2.67 | 2.72 | 2.63 | 2.56 |  |  |  |  |  |  |
| 110          | 3.64 | 3.66 | 3.60 | 3.53 | 3.64 | 3.83 | 3.54 | 3.52 | 3.45 | 3.47 | 3.39 | 3.31 |  |  |  |  |  |  |
| 115          | 4.40 | 4.40 | 4.40 | 4.33 | 4.42 | 4.61 | 4.30 | 4.29 | 4.18 | 4.23 | 4.13 | 4.04 |  |  |  |  |  |  |
| 120          | 5.03 | 5.03 | 5.06 | 5.01 | 5.09 | 5.23 | 4.96 | 4.92 | 4.86 | 4.83 | 4.77 | 4.67 |  |  |  |  |  |  |
| 125          | 5.48 | 5.49 | 5.57 | 5.51 | 5.59 | 5.68 | 5.42 | 5.39 | 5.33 | 5.29 | 5.25 | 5.13 |  |  |  |  |  |  |
| 130          | 5.77 | 5.82 | 5.90 | 5.87 | 5.92 | 5.99 | 5.74 | 5.69 | 5.64 | 5.59 | 5.55 | 5.44 |  |  |  |  |  |  |
| 135          | 5.98 | 6.04 | 6.12 | 6.12 | 6.17 | 6.21 | 5.95 | 5.90 | 5.85 | 5.79 | 5.74 | 5.65 |  |  |  |  |  |  |
| 140          | 6.18 | 6.24 | 6.32 | 6.33 | 6.38 | 6.41 | 6.14 | 6.08 | 6.03 | 5.98 | 5.90 | 5.83 |  |  |  |  |  |  |
| 145          | 6.43 | 6.49 | 6.58 | 6.59 | 6.66 | 6.69 | 6.37 | 6.31 | 6.24 | 6.21 | 6.10 | 6.03 |  |  |  |  |  |  |
| 150          | 6.93 | 7.03 | 7.05 | 7.09 | 7.15 | 7.16 | 6.87 | 6.82 | 6.72 | 6.73 | 6.60 | 6.55 |  |  |  |  |  |  |
| 155          | 7.29 | 7.39 | 7.37 | 7.41 | 7.47 | 7.45 | 7.24 | 7.19 | 7.14 | 7.11 | 7.02 | 7.01 |  |  |  |  |  |  |
| 160          | 7.54 | 7.65 | 7.64 | 7.63 | 7.75 | 7.65 | 7.52 | 7.46 | 7.47 | 7.41 | 7.34 | 7.35 |  |  |  |  |  |  |
| 165          | 7.76 | 7.87 | 7.80 | 7.81 | 7.91 | 7.79 | 7.75 | 7.68 | 7.68 | 7.73 | 7.57 | 7.61 |  |  |  |  |  |  |
| 170          | 7.93 | 8.01 | 7.93 | 8.02 | 8.01 | 7.92 | 7.95 | 7.86 | 7.85 | 7.93 | 7.77 | 7.80 |  |  |  |  |  |  |
| 175          | 8.11 | 8.12 | 8.03 | 8.14 | 8.10 | 8.04 | 8.11 | 8.03 | 8.00 | 8.09 | 7.97 | 7.97 |  |  |  |  |  |  |
| 180          | 8.20 | 8.17 | 8.11 | 8.21 | 8.14 | 8.10 | 8.21 | 8.17 | 8.11 | 8.21 | 8.14 | 8.10 |  |  |  |  |  |  |

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3°C**  
**Operators: Mr.Ma**  
**Test Date: 2024-10-11**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.459**  
**Humidity: 65.0%**  
**Test Distance: 6.100m [K=1.0000]**  
**Remarks:**