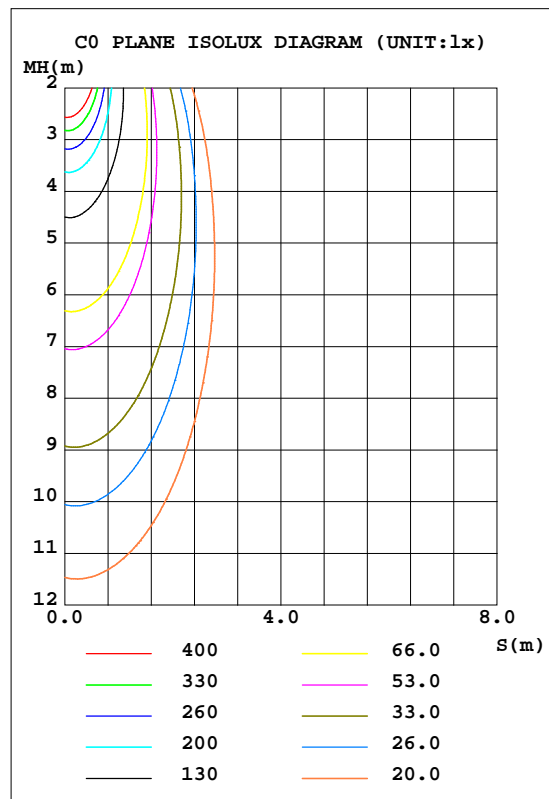
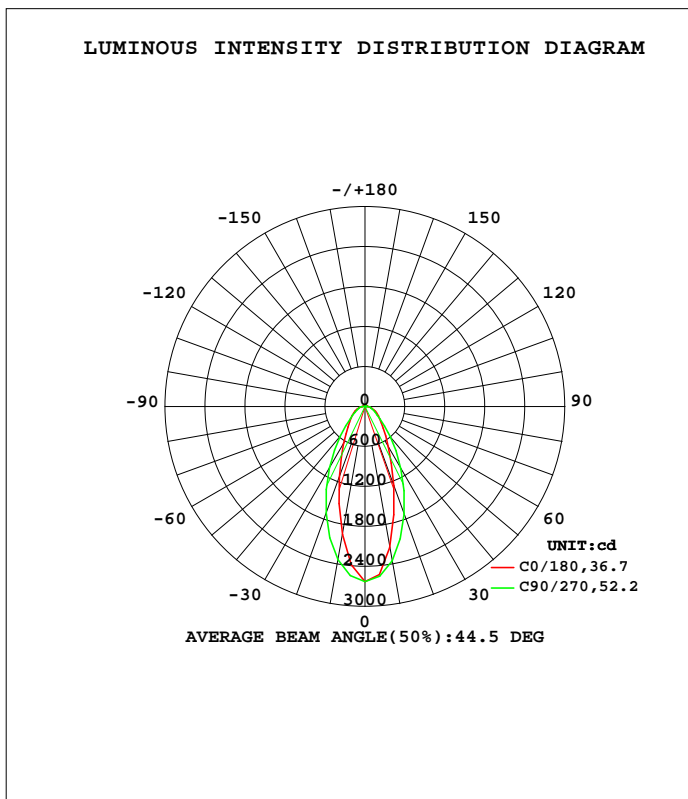


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:1 Freq:1.000Hz Lamp<br>Flux:54.190lx48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

| DATA OF LAMP     |              | PHOTOMETRIC DATA Eff: 108.38 lm/W |        |                    |           |
|------------------|--------------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | Lumileds3030 | I <sub>max</sub> (cd)             | 2633   | S/MH(C0/180)       | 0.55      |
| NOMINAL POWER(W) | 24           | LOR(%)                            | 100.0  | S/MH(C90/270)      | 0.78      |
| RATED VOLTAGE(V) | 24           | TOTAL FLUX(lm)                    | 2601.1 | h UP, DN(C0-180)   | 2.4, 48.3 |
| NOMINAL FLUX(lm) | 54.1901      | CIE CLASS                         | DIRECT | h UP, DN(C180-360) | 2.2, 47.1 |
| LAMPS INSIDE     | 48           | h up(%)                           | 4.6    | CIBSE SHR NOM      | 0.75      |
| TEST VOLTAGE(V)  | 24           | h down(%)                         | 95.4   | CIBSE SHR MAX      | 0.75      |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

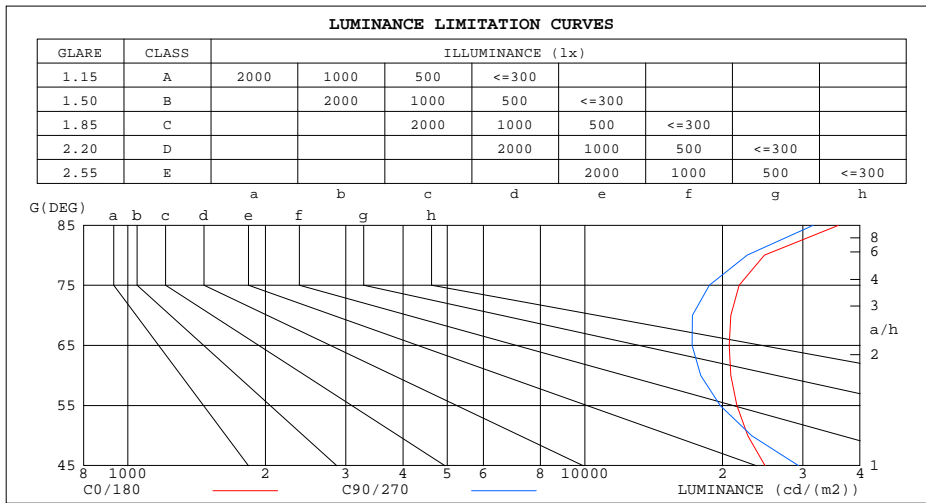
| g   | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | g       | F zone  | F total | %lum,lamp |
|-----|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|-----------|
| 10  | 2152                  | 2268  | 2350  | 2099  | 1951  | 2089  | 2337  | 2269  | 0- 10   | 229.1   | 229.1   | 8.81,8.81 |
| 20  | 1263                  | 1458  | 1726  | 1324  | 1133  | 1308  | 1706  | 1466  | 10- 20  | 502.4   | 731.5   | 28.1,28.1 |
| 30  | 706.8                 | 834.9 | 1084  | 768.3 | 643.2 | 753.8 | 1068  | 842.2 | 20- 30  | 509.1   | 1241    | 47.7,47.7 |
| 40  | 431.0                 | 484.7 | 590.5 | 457.2 | 402.2 | 445.7 | 582.0 | 488.1 | 30- 40  | 403.4   | 1644    | 63.2,63.2 |
| 50  | 292.2                 | 303.7 | 297.8 | 291.7 | 279.0 | 284.2 | 294.3 | 303.7 | 40- 50  | 293.5   | 1937    | 74.5,74.5 |
| 60  | 208.7                 | 198.5 | 179.5 | 190.5 | 198.3 | 184.9 | 175.8 | 195.5 | 50- 60  | 213.7   | 2151    | 82.7,82.7 |
| 70  | 142.9                 | 128.4 | 117.6 | 122.8 | 133.1 | 119.9 | 115.6 | 126.6 | 60- 70  | 156.4   | 2308    | 88.7,88.7 |
| 80  | 85.78                 | 85.29 | 78.71 | 81.37 | 77.63 | 78.62 | 74.25 | 83.53 | 70- 80  | 108.7   | 2416    | 92.9,92.9 |
| 90  | 44.11                 | 49.44 | 15.89 | 46.06 | 39.97 | 42.79 | 8.846 | 43.55 | 80- 90  | 64.89   | 2481    | 95.4,95.4 |
| 100 | 35.63                 | 35.07 | 3.367 | 33.08 | 33.69 | 30.34 | 2.569 | 30.75 | 90-100  | 33.55   | 2515    | 96.7,96.7 |
| 110 | 30.15                 | 21.83 | 4.960 | 21.60 | 27.92 | 19.24 | 3.918 | 18.92 | 100-110 | 22.91   | 2538    | 97.6,97.6 |
| 120 | 22.37                 | 11.42 | 7.291 | 14.08 | 20.74 | 12.20 | 5.935 | 10.51 | 110-120 | 15.24   | 2553    | 98.1,98.1 |
| 130 | 16.95                 | 11.78 | 10.21 | 13.86 | 15.81 | 12.17 | 8.615 | 9.993 | 120-130 | 11.28   | 2564    | 98.6,98.6 |
| 140 | 17.66                 | 14.43 | 13.45 | 16.60 | 16.78 | 14.80 | 11.70 | 12.32 | 130-140 | 10.29   | 2574    | 99,99     |
| 150 | 20.67                 | 17.42 | 16.57 | 19.38 | 19.66 | 17.74 | 14.89 | 15.22 | 140-150 | 10.06   | 2585    | 99.4,99.4 |
| 160 | 21.76                 | 19.64 | 19.26 | 21.13 | 20.77 | 20.04 | 17.97 | 17.93 | 150-160 | 8.662   | 2593    | 99.7,99.7 |
| 170 | 22.81                 | 21.07 | 21.32 | 22.02 | 21.76 | 21.56 | 20.65 | 20.17 | 160-170 | 5.831   | 2599    | 99.9,99.9 |
| 180 | 22.91                 | 22.25 | 22.37 | 22.17 | 22.83 | 22.34 | 22.38 | 22.19 | 170-180 | 2.080   | 2601    | 100,100   |
| DEG | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |         | UNIT:lm |         |           |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.190lx48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 35853  | 31585   |
| 80                | 24700  | 22664   |
| 75                | 21745  | 18732   |
| 70                | 20885  | 17194   |
| 65                | 20699  | 17159   |
| 60                | 20869  | 17946   |
| 55                | 21514  | 19773   |
| 50                | 22729  | 23166   |
| 45                | 24799  | 29394   |

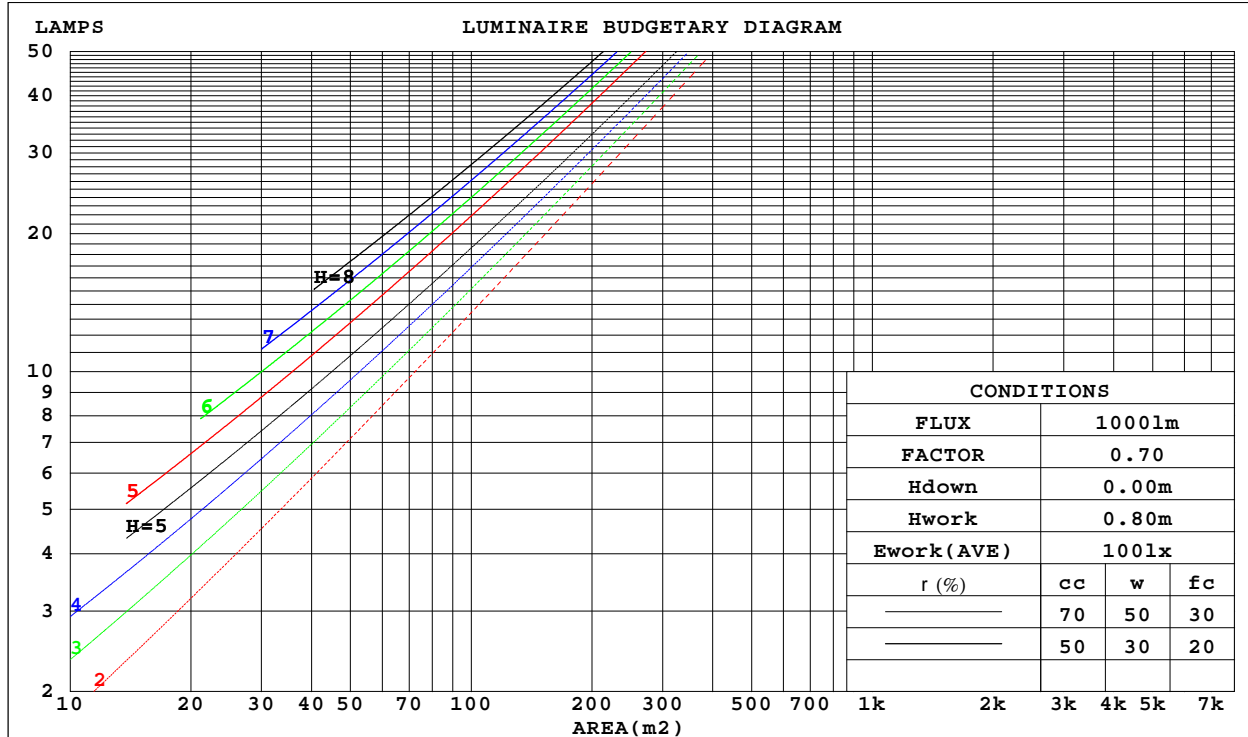
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.190lx48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

|                 |                       |      |      |      |      |      |                                 |      |      |      |      |      |     |     |     |     |
|-----------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|-----|-----|-----|-----|
| r <sub>cc</sub> | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10% |     |     | 0   |
| r <sub>w</sub>  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 0   |
| r <sub>fc</sub> | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20% |     |     | 0   |
| RCR             | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |     |     |     |     |
| 0.0             | 1.18                  | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09                            | 1.09 | 1.09 | 1.03 | 1.03 | 1.03 | .98 | .98 | .98 | .95 |
| 1.0             | 1.05                  | 1.02 | .98  | 1.03 | .99  | .96  | .98                             | .95  | .92  | .93  | .91  | .89  | .89 | .87 | .85 | .83 |
| 2.0             | .95                   | .89  | .84  | .93  | .87  | .83  | .88                             | .84  | .80  | .85  | .81  | .78  | .81 | .78 | .76 | .73 |
| 3.0             | .86                   | .79  | .74  | .84  | .78  | .73  | .81                             | .75  | .71  | .77  | .73  | .69  | .74 | .71 | .68 | .66 |
| 4.0             | .78                   | .71  | .66  | .77  | .70  | .65  | .74                             | .68  | .64  | .71  | .66  | .62  | .69 | .65 | .61 | .59 |
| 5.0             | .72                   | .65  | .59  | .71  | .64  | .59  | .68                             | .62  | .58  | .66  | .61  | .57  | .64 | .59 | .56 | .54 |
| 6.0             | .67                   | .59  | .54  | .65  | .58  | .53  | .63                             | .57  | .53  | .61  | .56  | .52  | .60 | .55 | .51 | .49 |
| 7.0             | .62                   | .55  | .49  | .61  | .54  | .49  | .59                             | .53  | .48  | .57  | .52  | .48  | .56 | .51 | .47 | .45 |
| 8.0             | .58                   | .51  | .46  | .57  | .50  | .45  | .55                             | .49  | .45  | .54  | .48  | .44  | .52 | .48 | .44 | .42 |
| 9.0             | .54                   | .47  | .42  | .53  | .47  | .42  | .52                             | .46  | .42  | .51  | .45  | .41  | .49 | .45 | .41 | .39 |
| 10.0            | .51                   | .44  | .40  | .50  | .44  | .39  | .49                             | .43  | .39  | .48  | .42  | .39  | .47 | .42 | .38 | .37 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

WEC AND CCEC

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.1901x48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

| r cc | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| r w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| r fc | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .262                  | .149 | .047 | .254 | .145 | .046 | .238                            | .137 | .044 | .224 | .129 | .041 | .210 | .122 | .039 |   |
| 2.0  | .240                  | .132 | .040 | .233 | .128 | .039 | .219                            | .122 | .038 | .207 | .116 | .036 | .195 | .110 | .035 |   |
| 3.0  | .221                  | .118 | .035 | .215 | .115 | .035 | .203                            | .110 | .033 | .192 | .105 | .032 | .181 | .100 | .031 |   |
| 4.0  | .204                  | .106 | .031 | .199 | .104 | .031 | .188                            | .100 | .030 | .178 | .096 | .029 | .169 | .092 | .028 |   |
| 5.0  | .190                  | .097 | .028 | .185 | .095 | .028 | .175                            | .091 | .027 | .167 | .088 | .026 | .158 | .085 | .025 |   |
| 6.0  | .177                  | .089 | .025 | .173 | .087 | .025 | .164                            | .084 | .025 | .156 | .081 | .024 | .149 | .078 | .023 |   |
| 7.0  | .166                  | .082 | .023 | .162 | .081 | .023 | .155                            | .078 | .022 | .147 | .076 | .022 | .141 | .073 | .021 |   |
| 8.0  | .156                  | .076 | .021 | .153 | .075 | .021 | .146                            | .073 | .021 | .139 | .071 | .020 | .133 | .068 | .020 |   |
| 9.0  | .147                  | .071 | .020 | .144 | .070 | .020 | .138                            | .068 | .019 | .132 | .066 | .019 | .126 | .064 | .019 |   |
| 10.0 | .139                  | .067 | .019 | .136 | .066 | .018 | .131                            | .064 | .018 | .125 | .062 | .018 | .120 | .061 | .017 |   |

| r cc | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| r w  | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| r fc | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .226                  | .226 | .226 | .193 | .193 | .193 | .132                                       | .132 | .132 | .076 | .076 | .076 | .024 | .024 | .024 |   |
| 1.0  | .212                  | .192 | .174 | .182 | .165 | .149 | .124                                       | .113 | .103 | .072 | .066 | .060 | .023 | .021 | .019 |   |
| 2.0  | .201                  | .168 | .140 | .172 | .144 | .121 | .118                                       | .100 | .084 | .068 | .058 | .049 | .022 | .019 | .016 |   |
| 3.0  | .191                  | .150 | .117 | .164 | .129 | .101 | .112                                       | .090 | .071 | .065 | .052 | .042 | .021 | .017 | .014 |   |
| 4.0  | .182                  | .136 | .101 | .156 | .118 | .088 | .107                                       | .082 | .062 | .062 | .048 | .037 | .020 | .016 | .012 |   |
| 5.0  | .174                  | .125 | .089 | .149 | .108 | .078 | .103                                       | .076 | .055 | .060 | .044 | .033 | .019 | .014 | .011 |   |
| 6.0  | .166                  | .116 | .081 | .143 | .101 | .070 | .099                                       | .071 | .050 | .057 | .041 | .030 | .018 | .014 | .010 |   |
| 7.0  | .159                  | .109 | .074 | .137 | .095 | .064 | .095                                       | .066 | .046 | .055 | .039 | .027 | .018 | .013 | .009 |   |
| 8.0  | .153                  | .103 | .069 | .132 | .090 | .060 | .091                                       | .063 | .043 | .053 | .037 | .025 | .017 | .012 | .008 |   |
| 9.0  | .148                  | .098 | .065 | .127 | .085 | .057 | .088                                       | .060 | .040 | .051 | .035 | .024 | .017 | .012 | .008 |   |
| 10.0 | .142                  | .094 | .062 | .123 | .081 | .054 | .085                                       | .057 | .038 | .050 | .034 | .023 | .016 | .011 | .008 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|   |                  |      |      |      |                            |                |      |                  |      |      |
|---|------------------|------|------|------|----------------------------|----------------|------|------------------|------|------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.190lx48 lm |                  |      |      |      |                            |                |      |                  |      |      |
| NAME: LL-F2010T-I-24W-2700K-2545°   |                  |      |      |      | TYPE: LED WallWasher Strip |                |      | WEIGHT: 0.12KG   |      |      |
| SPEC.: 20*10  |                  |      |      |      | DIM.: 1000*20*10           |                |      | SERIAL No.:      |      |      |
| MFR.:   |                  |      |      |      | SUR.:                      |                |      | 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   | 18.3             | 19.4 | 18.6 | 19.7 | 20.0                       | 18.2           | 19.4 | 18.5             | 19.7 | 19.9 |
| 3H  | 19.8             | 20.9 | 20.1 | 21.2 | 21.5                       | 19.4           | 20.5 | 19.7             | 20.7 | 21.1 |
| 4H  | 20.6             | 21.6 | 20.9 | 21.9 | 22.2                       | 20.1           | 21.1 | 20.4             | 21.4 | 21.7 |
| 6H  | 21.3             | 22.3 | 21.7 | 22.6 | 23.0                       | 20.9           | 21.9 | 21.3             | 22.2 | 22.6 |
| 8H  | 21.7             | 22.6 | 22.1 | 23.0 | 23.4                       | 21.4           | 22.3 | 21.8             | 22.7 | 23.1 |
| 12H   | 22.1             | 23.0 | 22.5 | 23.4 | 23.8                       | 21.8           | 22.7 | 22.2             | 23.1 | 23.5 |
| 4H 2H   | 18.7             | 19.8 | 19.1 | 20.1 | 20.4                       | 18.7           | 19.7 | 19.0             | 20.0 | 20.4 |
| 3H  | 20.5             | 21.4 | 20.9 | 21.8 | 22.1                       | 20.1           | 21.0 | 20.5             | 21.4 | 21.8 |
| 4H  | 21.4             | 22.2 | 21.9 | 22.6 | 23.1                       | 21.0           | 21.8 | 21.4             | 22.2 | 22.6 |
| 6H  | 22.4             | 23.1 | 22.8 | 23.5 | 24.0                       | 22.1           | 22.8 | 22.5             | 23.2 | 23.7 |
| 8H  | 22.8             | 23.5 | 23.3 | 24.0 | 24.5                       | 22.7           | 23.4 | 23.2             | 23.8 | 24.3 |
| 12H   | 23.4             | 24.0 | 23.9 | 24.5 | 25.0                       | 23.2           | 23.8 | 23.7             | 24.3 | 24.8 |
| 8H 4H   | 21.7             | 22.4 | 22.2 | 22.9 | 23.3                       | 21.4           | 22.1 | 21.9             | 22.5 | 23.0 |
| 6H  | 22.9             | 23.5 | 23.4 | 24.0 | 24.5                       | 22.7           | 23.3 | 23.2             | 23.8 | 24.3 |
| 8H  | 23.6             | 24.1 | 24.1 | 24.6 | 25.1                       | 23.5           | 24.0 | 24.1             | 24.5 | 25.1 |
| 12H   | 24.3             | 24.8 | 24.9 | 25.3 | 25.9                       | 24.2           | 24.7 | 24.8             | 25.2 | 25.8 |
| 12H 4H  | 21.8             | 22.4 | 22.3 | 22.9 | 23.4                       | 21.5           | 22.1 | 22.0             | 22.6 | 23.1 |
| 6H  | 23.1             | 23.6 | 23.6 | 24.1 | 24.7                       | 22.9           | 23.4 | 23.4             | 23.9 | 24.5 |
| 8H  | 23.8             | 24.3 | 24.4 | 24.8 | 25.4                       | 23.8           | 24.2 | 24.3             | 24.8 | 25.3 |
| Variations with the observer position at spacings(CIE Pub.117):                       |                  |      |      |      |                            |                |      |                  |      |      |
| S = 1.0H  | + 0.2 / - 0.2    |      |      |      |                            | + 0.2 / - 0.3  |      |                  |      |      |
| 1.5H  | + 0.1 / - 0.2    |      |      |      |                            | + 0.1 / - 0.2  |      |                  |      |      |
| 2.0H  | + 0.1 / - 0.2    |      |      |      |                            | + 0.1 / - 0.2  |      |                  |      |      |

CIE Pub.117, 2601 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.3)  
Area: 0.02 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:28DEG  
Operators:  
Test Date:2022-01-08

g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

UTILIZATION FACTORS TABLE

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.190lx48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

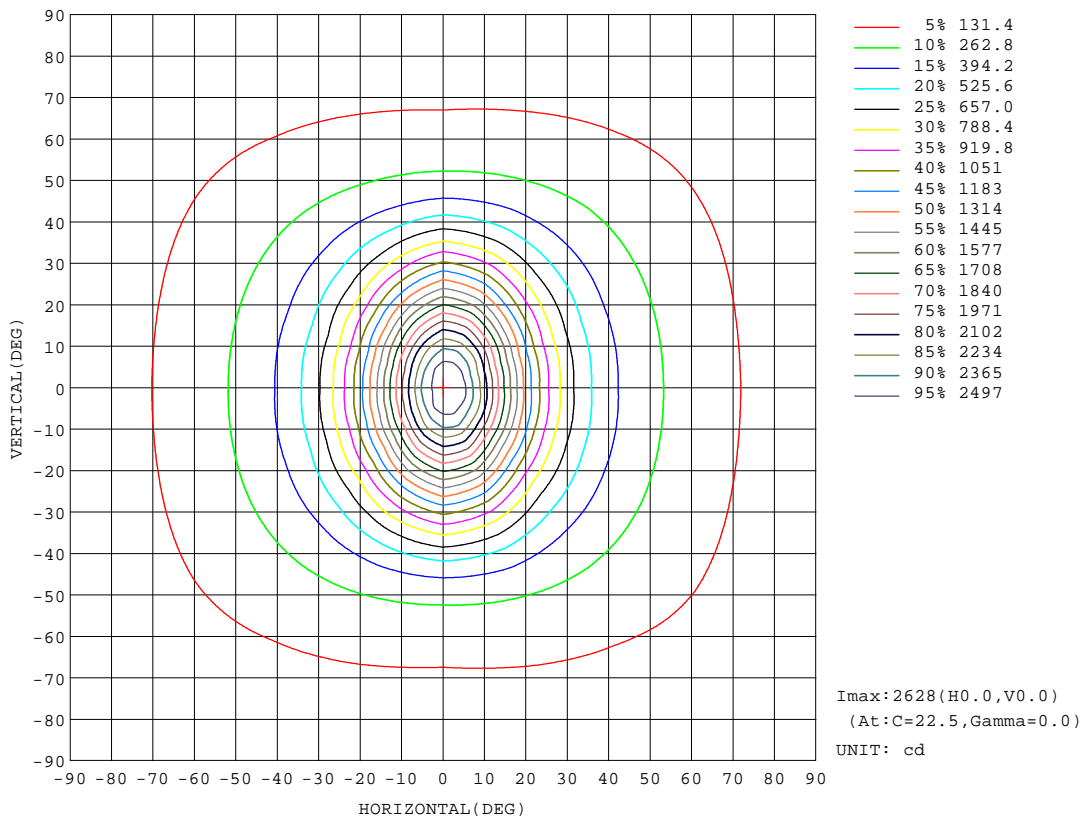
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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) x RCR = 5 |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 69   | 59  | 54        | 68  | 59  | 54  | 67            | 59  | 54  | 48     |
| 0.80                             | 78   | 68  | 62        | 77  | 68  | 62  | 75            | 67  | 62  | 56     |
| 1.00                             | 84   | 75  | 69        | 83  | 75  | 69  | 81            | 75  | 68  | 62     |
| 1.25                             | 90   | 81  | 76        | 88  | 80  | 75  | 85            | 79  | 74  | 68     |
| 1.50                             | 94   | 86  | 80        | 92  | 85  | 79  | 89            | 83  | 78  | 71     |
| 2.00                             | 99   | 92  | 86        | 97  | 90  | 85  | 93            | 88  | 84  | 76     |
| 2.50                             | 102  | 95  | 90        | 99  | 94  | 89  | 95            | 91  | 87  | 78     |
| 3.00                             | 104  | 98  | 94        | 102 | 97  | 92  | 97            | 93  | 90  | 81     |
| 4.00                             | 107  | 103 | 99        | 105 | 101 | 97  | 100           | 97  | 94  | 84     |
| 5.00                             | 109  | 105 | 102       | 107 | 103 | 100 | 102           | 99  | 96  | 86     |
| 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: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.1901x48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:28DEG  
Operators:  
Test Date:2022-01-08

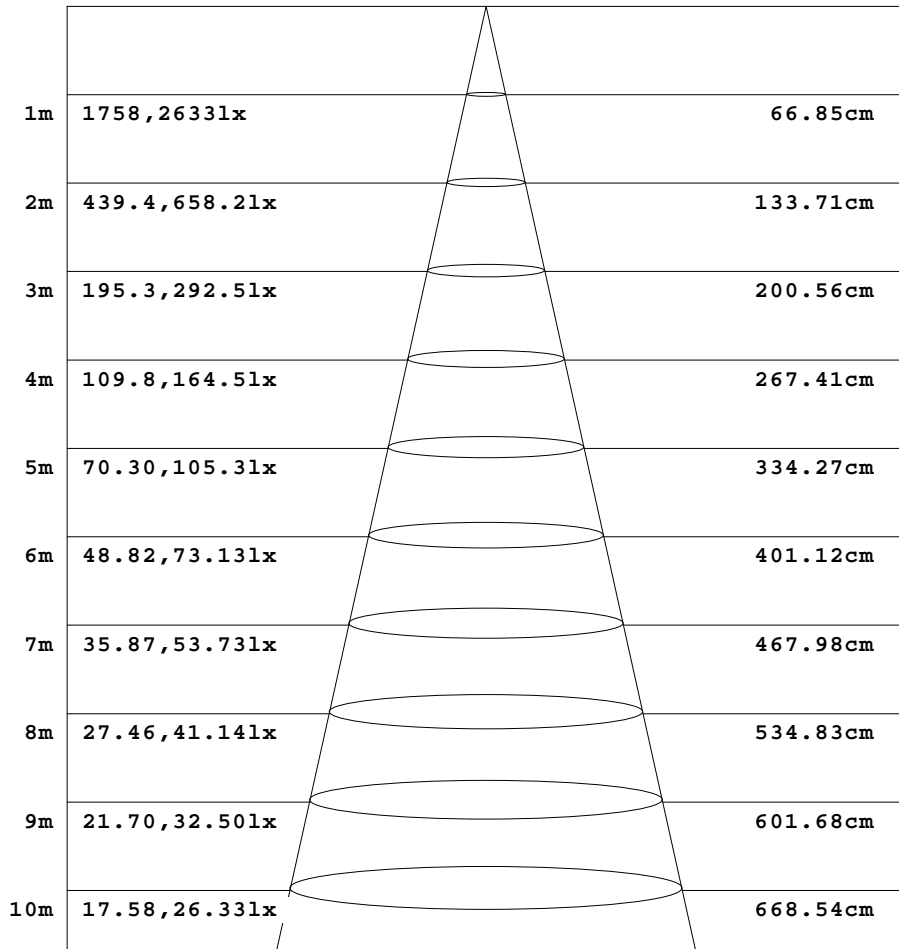
g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:



**AAI Figure**

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.1901x48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

Flux out:731.5 lm



Height                      Eavg, Emax                      Angle:36.97deg                      Diameter

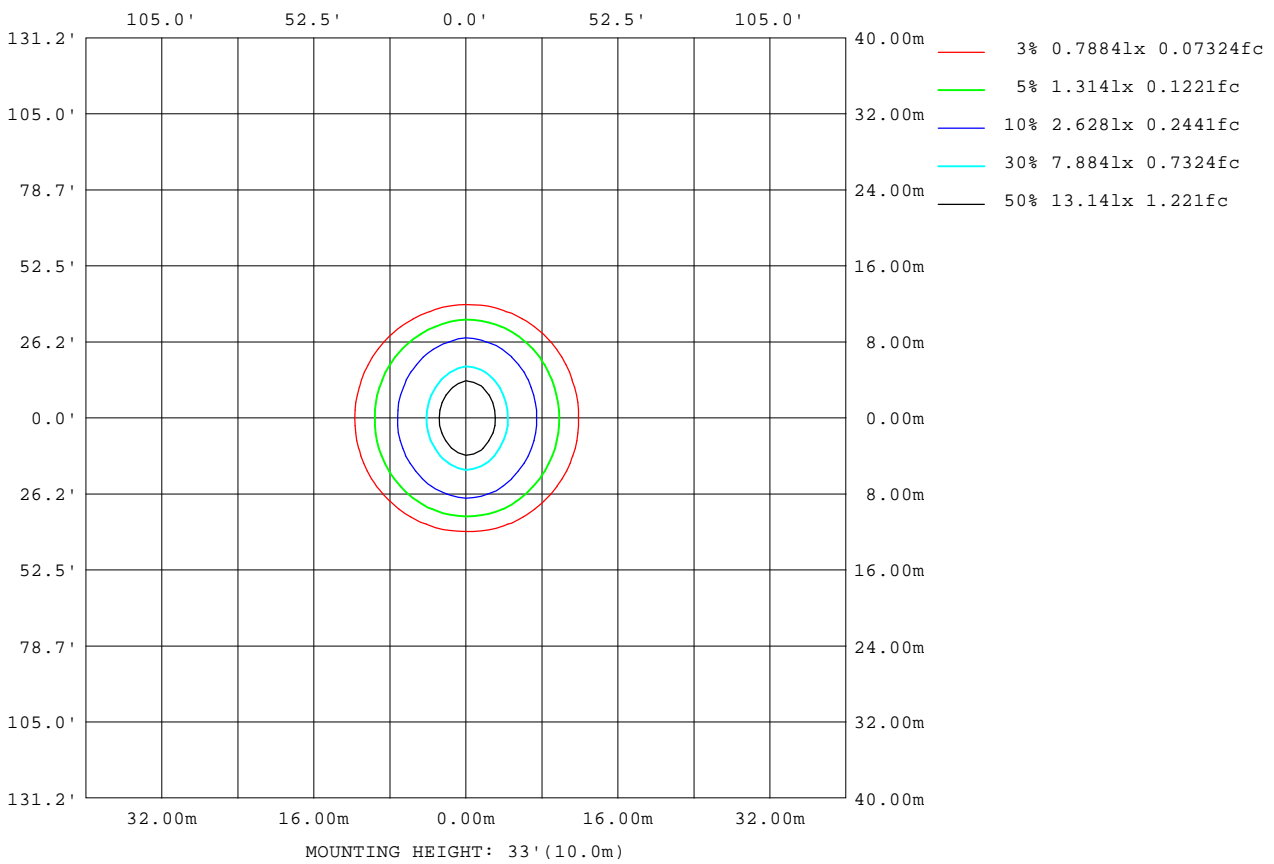
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature:28DEG  
Operators:  
Test Date:2002-01-01

g Range: 0 - 180DEG  
g Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:7.100m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.190lx48 lm |                            |                  |
| NAME: LLL-F2010T-I-24W-2700K-2545°  | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |



**C Range: 0 - 360DEG**  
**C Interval: 22.5DEG**  
**Test Speed: MEDIUM**  
**Temperature: 28DEG**  
**Operators:**  
**Test Date: 2022-01-08**

**g Range: 0 - 180DEG**  
**g Interval: 5.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.444**  
**Humidity: 65.0%**  
**Test Distance: 7.100m [K=1.0000]**  
**Remarks:**

LED Avg.L Report

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.1901x48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

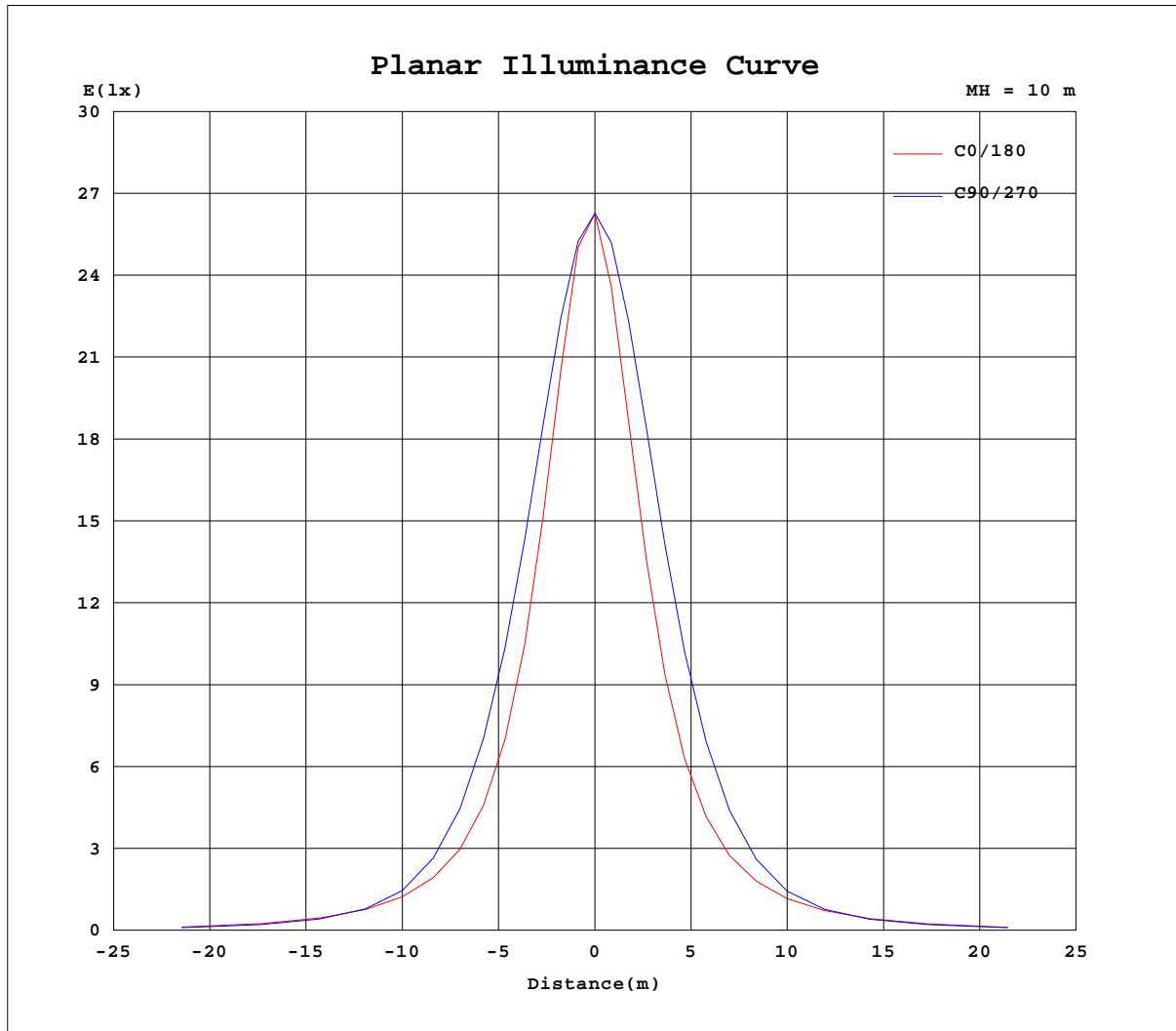
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 20094 |
| L_0~180(75)av  | 20887 |
| L_0~180(85)av  | 33886 |
| L_90~270(65)av | 16932 |
| L_90~270(75)av | 18501 |
| L_90~270(85)av | 29746 |
| L_45(65)av     | 18323 |
| L_45(75)av     | 19585 |
| L_45(85)av     | 36565 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature: 28DEG  
 Operators:  
 Test Date: 2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity: 65.0%  
 Test Distance: 7.100m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                            |                  |
|---|----------------------------|------------------|
| Test:U:24.000V I:1.0000A P:24.000W PF:-0.4910 Freq:1.000Hz<br>Lamp Flux:54.1901x48 lm |                            |                  |
| NAME: LL-F2010T-I-24W-2700K-2545°   | TYPE: LED WallWasher Strip | WEIGHT: 0.12KG   |
| SPEC.: 20*10  | DIM.: 1000*20*10           | SERIAL No.:      |
| MFR.:   | SUR.:                      | Shielding Angle: |

Table--1

UNIT: cd

| C( DEG)<br>g (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                  | 2628 | 2633 | 2623 | 2626 | 2627 | 2627  | 2621 | 2614  | 2628 | 2633  | 2623 | 2626  | 2627 | 2627  | 2621 | 2614  |  |  |  |
| 5                  | 2532 | 2558 | 2558 | 2575 | 2554 | 2513  | 2443 | 2396  | 2383 | 2394  | 2439 | 2496  | 2548 | 2562  | 2554 | 2524  |  |  |  |
| 10                 | 2152 | 2207 | 2268 | 2360 | 2350 | 2256  | 2099 | 1992  | 1951 | 1976  | 2089 | 2221  | 2337 | 2335  | 2269 | 2166  |  |  |  |
| 15                 | 1682 | 1753 | 1864 | 2035 | 2057 | 1917  | 1698 | 1561  | 1507 | 1539  | 1685 | 1876  | 2041 | 2008  | 1871 | 1719  |  |  |  |
| 20                 | 1263 | 1331 | 1458 | 1672 | 1726 | 1560  | 1324 | 1187  | 1133 | 1165  | 1308 | 1517  | 1706 | 1645  | 1466 | 1306  |  |  |  |
| 25                 | 941  | 994  | 1110 | 1319 | 1393 | 1227  | 1012 | 893   | 848  | 876   | 996  | 1188  | 1374 | 1298  | 1117 | 978   |  |  |  |
| 30                 | 707  | 746  | 835  | 1011 | 1084 | 942   | 768  | 678   | 643  | 663   | 754  | 908   | 1068 | 994   | 842  | 735   |  |  |  |
| 35                 | 544  | 570  | 631  | 758  | 814  | 711   | 587  | 525   | 501  | 514   | 575  | 683   | 802  | 746   | 637  | 563   |  |  |  |
| 40                 | 431  | 448  | 485  | 560  | 591  | 531   | 457  | 418   | 402  | 410   | 446  | 509   | 582  | 551   | 488  | 442   |  |  |  |
| 45                 | 351  | 362  | 380  | 413  | 416  | 396   | 362  | 342   | 331  | 335   | 353  | 379   | 410  | 405   | 381  | 356   |  |  |  |
| 50                 | 292  | 299  | 304  | 307  | 298  | 298   | 292  | 285   | 279  | 279   | 284  | 286   | 294  | 300   | 304  | 294   |  |  |  |
| 55                 | 247  | 249  | 245  | 234  | 227  | 229   | 236  | 237   | 235  | 234   | 229  | 223   | 223  | 231   | 243  | 245   |  |  |  |
| 60                 | 209  | 208  | 198  | 187  | 179  | 183   | 190  | 198   | 198  | 196   | 185  | 178   | 176  | 183   | 196  | 205   |  |  |  |
| 65                 | 175  | 172  | 160  | 151  | 145  | 148   | 153  | 163   | 165  | 161   | 149  | 145   | 141  | 148   | 157  | 169   |  |  |  |
| 70                 | 143  | 140  | 128  | 125  | 118  | 123   | 123  | 131   | 133  | 128   | 120  | 118   | 116  | 121   | 127  | 135   |  |  |  |
| 75                 | 113  | 110  | 104  | 105  | 97.0 | 103   | 100  | 102   | 104  | 99.1  | 97.7 | 98.5  | 94.6 | 101   | 103  | 103   |  |  |  |
| 80                 | 85.8 | 84.3 | 85.3 | 86.0 | 78.7 | 83.7  | 81.4 | 78.0  | 77.6 | 75.4  | 78.6 | 78.5  | 74.3 | 81.4  | 83.5 | 78.4  |  |  |  |
| 85                 | 62.5 | 64.1 | 67.5 | 65.3 | 55.1 | 63.0  | 63.8 | 59.0  | 55.6 | 56.6  | 60.6 | 56.3  | 48.6 | 59.6  | 63.1 | 57.3  |  |  |  |
| 90                 | 44.1 | 47.3 | 49.4 | 39.1 | 15.9 | 36.4  | 46.1 | 43.4  | 40.0 | 41.2  | 42.8 | 30.0  | 8.85 | 32.2  | 43.5 | 41.7  |  |  |  |
| 95                 | 37.5 | 38.6 | 39.8 | 26.9 | 2.78 | 26.4  | 38.7 | 37.5  | 35.7 | 36.2  | 36.3 | 23.6  | 2.08 | 20.8  | 35.5 | 35.5  |  |  |  |
| 100                | 35.6 | 35.9 | 35.1 | 21.9 | 3.37 | 20.4  | 33.1 | 34.6  | 33.7 | 33.3  | 30.3 | 16.5  | 2.57 | 17.2  | 30.8 | 32.8  |  |  |  |
| 105                | 33.4 | 32.5 | 28.1 | 11.9 | 4.06 | 12.3  | 26.9 | 31.1  | 31.3 | 29.6  | 24.2 | 9.72  | 3.17 | 9.66  | 24.8 | 29.5  |  |  |  |
| 110                | 30.1 | 28.0 | 21.8 | 7.25 | 4.96 | 8.19  | 21.6 | 27.1  | 27.9 | 25.5  | 19.2 | 6.69  | 3.92 | 6.10  | 18.9 | 25.6  |  |  |  |
| 115                | 26.2 | 23.8 | 15.1 | 7.48 | 6.03 | 8.29  | 17.3 | 23.3  | 24.2 | 21.7  | 15.3 | 7.07  | 4.84 | 6.22  | 13.8 | 21.8  |  |  |  |
| 120                | 22.4 | 20.0 | 11.4 | 8.39 | 7.29 | 9.28  | 14.1 | 20.0  | 20.7 | 18.3  | 12.2 | 7.93  | 5.93 | 6.92  | 10.5 | 18.0  |  |  |  |
| 125                | 19.2 | 15.6 | 10.8 | 9.55 | 8.69 | 10.5  | 12.9 | 17.2  | 17.9 | 15.5  | 11.3 | 9.04  | 7.21 | 7.92  | 9.32 | 14.2  |  |  |  |
| 130                | 17.0 | 13.6 | 11.8 | 10.9 | 10.2 | 11.8  | 13.9 | 15.7  | 15.8 | 14.1  | 12.2 | 10.3  | 8.61 | 9.10  | 9.99 | 11.9  |  |  |  |
| 135                | 16.5 | 14.1 | 13.0 | 12.4 | 11.8 | 13.2  | 15.1 | 16.3  | 15.6 | 14.6  | 13.3 | 11.6  | 10.1 | 10.4  | 11.0 | 12.0  |  |  |  |
| 140                | 17.7 | 15.4 | 14.4 | 13.9 | 13.5 | 14.7  | 16.6 | 17.7  | 16.8 | 15.8  | 14.8 | 13.1  | 11.7 | 11.8  | 12.3 | 13.1  |  |  |  |
| 145                | 19.1 | 16.9 | 15.9 | 15.4 | 15.0 | 16.2  | 18.0 | 19.2  | 18.2 | 17.4  | 16.3 | 14.6  | 13.3 | 13.3  | 13.8 | 14.4  |  |  |  |
| 150                | 20.7 | 18.4 | 17.4 | 16.8 | 16.6 | 17.6  | 19.4 | 20.7  | 19.7 | 19.0  | 17.7 | 16.0  | 14.9 | 14.7  | 15.2 | 15.9  |  |  |  |
| 155                | 21.8 | 19.6 | 18.7 | 18.1 | 18.0 | 18.9  | 20.4 | 21.7  | 20.9 | 20.4  | 19.0 | 17.5  | 16.5 | 16.2  | 16.6 | 17.4  |  |  |  |
| 160                | 21.8 | 20.6 | 19.6 | 19.2 | 19.3 | 20.1  | 21.1 | 22.3  | 20.8 | 21.3  | 20.0 | 18.8  | 18.0 | 17.7  | 17.9 | 18.6  |  |  |  |
| 165                | 22.6 | 21.1 | 20.4 | 20.2 | 20.4 | 21.0  | 21.7 | 22.4  | 21.4 | 21.8  | 20.9 | 20.0  | 19.4 | 19.1  | 19.1 | 19.4  |  |  |  |
| 170                | 22.8 | 21.7 | 21.1 | 21.1 | 21.3 | 21.7  | 22.0 | 22.4  | 21.8 | 22.1  | 21.6 | 21.0  | 20.7 | 20.3  | 20.2 | 20.1  |  |  |  |
| 175                | 22.9 | 22.1 | 21.7 | 21.9 | 22.0 | 22.2  | 22.2 | 22.3  | 22.1 | 22.4  | 22.0 | 21.8  | 21.7 | 21.4  | 21.2 | 21.1  |  |  |  |
| 180                | 22.9 | 22.6 | 22.3 | 22.3 | 22.4 | 22.3  | 22.2 | 22.1  | 22.8 | 22.7  | 22.3 | 22.3  | 22.4 | 22.3  | 22.2 | 22.1  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:28DEG  
 Operators:  
 Test Date:2022-01-08

g Range: 0 - 180DEG  
 g Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:7.100m [K=1.0000]  
 Remarks: