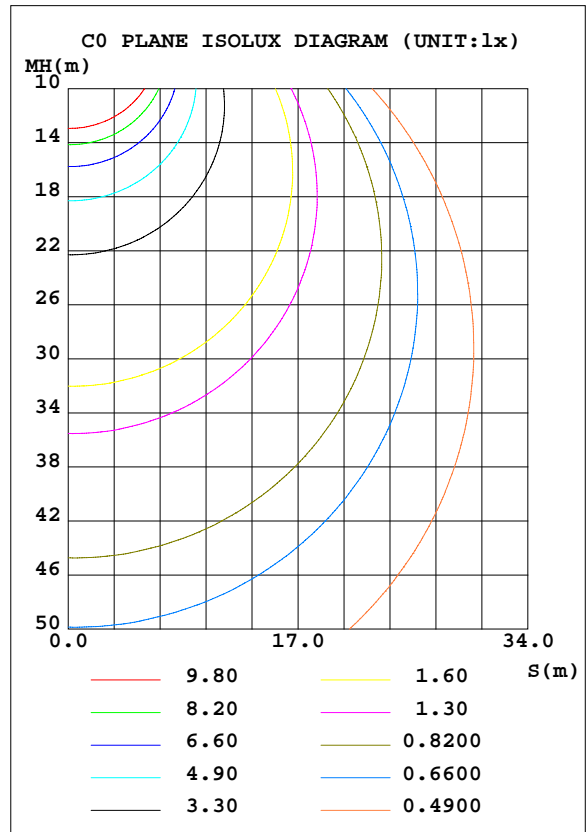
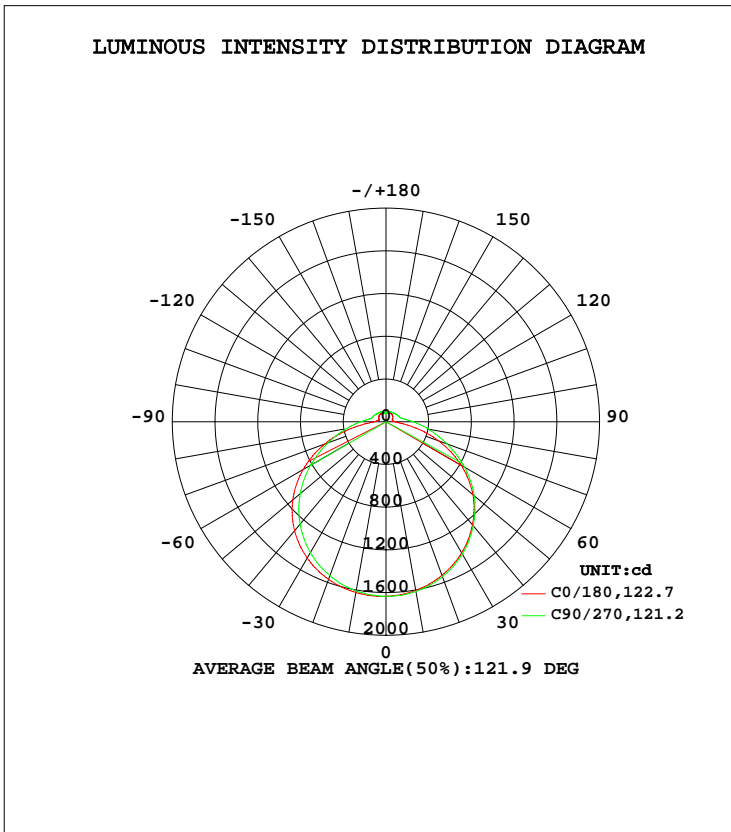


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 88.62 lm/W |         |                         |          |
|------------------|------------|----------------------------------|---------|-------------------------|----------|
| MODEL            | 4106-40-WH | Imax(cd)                         | 1636    | S/MH(C0/180)            | 1.29     |
| NOMINAL POWER(W) | 70         | LOR(%)                           | 100.0   | S/MH(C90/270)           | 1.30     |
| RATED VOLTAGE(V) | 120        | TOTAL FLUX(lm)                   | 6057.0  | $\eta$ UP, DN(C0-180)   | 5.5,44.3 |
| NOMINAL FLUX(lm) | 6057.02    | CIE CLASS                        | SEMI-D. | $\eta$ UP, DN(C180-360) | 5.6,44.6 |
| LAMPS INSIDE     | 1          | $\eta$ up(%)                     | 11.1    | CIBSE SHR NOM           | 1.50     |
| TEST VOLTAGE(V)  | 120.0      | $\eta$ down(%)                   | 88.9    | CIBSE SHR MAX           | 1.50     |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ   | C0   | C45   | C90   | C135  | C180  | C225  | C270  | C315  | γ       | Φ zone  | Φ total | %lum,lamp |
|-----|--|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|-----------|
| 10  | 1623   | 1618  | 1609  | 1604  | 1604  | 1608  | 1613  | 1621  | 0- 10   | 155.0   | 155.0   | 2.56,2.56 |
| 20  | 1572   | 1557  | 1535  | 1529  | 1531  | 1537  | 1544  | 1562  | 10- 20  | 447.6   | 602.6   | 9.95,9.95 |
| 30  | 1475   | 1451  | 1415  | 1409  | 1417  | 1423  | 1429  | 1456  | 20- 30  | 689.8   | 1292    | 21.3,21.3 |
| 40  | 1332   | 1300  | 1251  | 1245  | 1260  | 1266  | 1271  | 1304  | 30- 40  | 852.3   | 2145    | 35.4,35.4 |
| 50  | 1139   | 1103  | 1048  | 1040  | 1063  | 1072  | 1078  | 1113  | 40- 50  | 914.3   | 3059    | 50.5,50.5 |
| 60  | 896.1  | 865.9 | 814.4 | 797.2 | 813.2 | 834.9 | 847.7 | 876.7 | 50- 60  | 864.0   | 3923    | 64.8,64.8 |
| 70  | 609.1  | 604.2 | 577.2 | 538.8 | 525.2 | 576.5 | 609.5 | 615.1 | 60- 70  | 706.2   | 4629    | 76.4,76.4 |
| 80  | 303.8  | 365.8 | 377.0 | 314.0 | 233.1 | 344.6 | 411.3 | 373.6 | 70- 80  | 482.4   | 5111    | 84.4,84.4 |
| 90  | 110.4  | 194.0 | 236.9 | 163.5 | 87.38 | 181.9 | 254.7 | 200.6 | 80- 90  | 272.2   | 5384    | 88.9,88.9 |
| 100 | 72.95  | 117.3 | 157.1 | 106.2 | 60.95 | 111.7 | 165.5 | 118.7 | 90-100  | 152.3   | 5536    | 91.4,91.4 |
| 110 | 70.72  | 108.6 | 132.2 | 102.0 | 65.34 | 104.8 | 133.8 | 107.8 | 100-110 | 112.5   | 5648    | 93.3,93.3 |
| 120 | 78.62  | 104.2 | 124.2 | 99.22 | 75.03 | 102.1 | 125.1 | 103.2 | 110-120 | 101.4   | 5750    | 94.9,94.9 |
| 130 | 85.09  | 101.8 | 115.7 | 98.69 | 83.04 | 100.7 | 116.4 | 100.1 | 120-130 | 90.25   | 5840    | 96.4,96.4 |
| 140 | 87.98  | 99.97 | 109.6 | 97.53 | 88.67 | 97.89 | 108.9 | 98.32 | 130-140 | 77.03   | 5917    | 97.7,97.7 |
| 150 | 91.28  | 100.1 | 104.7 | 98.12 | 91.80 | 95.87 | 103.6 | 98.43 | 140-150 | 61.75   | 5979    | 98.7,98.7 |
| 160 | 90.76  | 96.95 | 102.1 | 91.96 | 90.97 | 90.85 | 97.71 | 95.99 | 150-160 | 44.82   | 6024    | 99.4,99.4 |
| 170 | 85.78  | 85.13 | 84.82 | 83.22 | 84.01 | 75.80 | 82.36 | 89.17 | 160-170 | 25.58   | 6049    | 99.9,99.9 |
| 180 | 83.93  | 82.10 | 99.23 | 73.79 | 83.37 | 83.13 | 80.43 | 81.17 | 170-180 | 7.748   | 6057    | 100,100   |
| DEG | LUMINOUS INTENSITY:cd Less than 25% Percent = 10.7 % |       |       |       |       |       |       |       |         | UNIT:lm |         |           |

Conical surface Flux(90deg): 2600.6 lm

%lum = 42.9%  
 %lamp = 42.9%

Conical surface Flux(120deg): 3922.8 lm

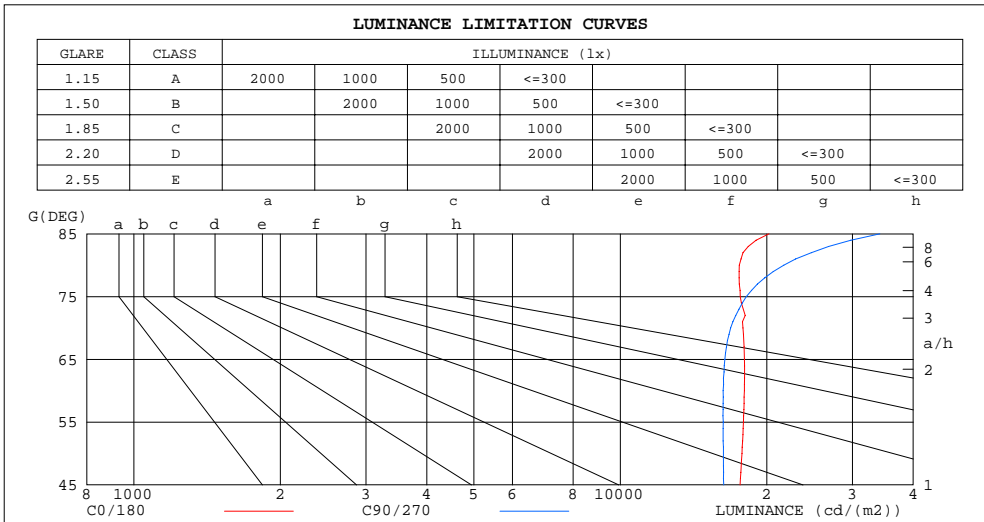
%lum = 64.8%  
 %lamp = 64.8%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 20196  | 34151   |
| 80                | 17557  | 21684   |
| 75                | 17643  | 18160   |
| 70                | 17873  | 16857   |
| 65                | 17989  | 16408   |
| 60                | 17985  | 16268   |
| 55                | 17907  | 16273   |
| 50                | 17782  | 16287   |
| 45                | 17633  | 16311   |

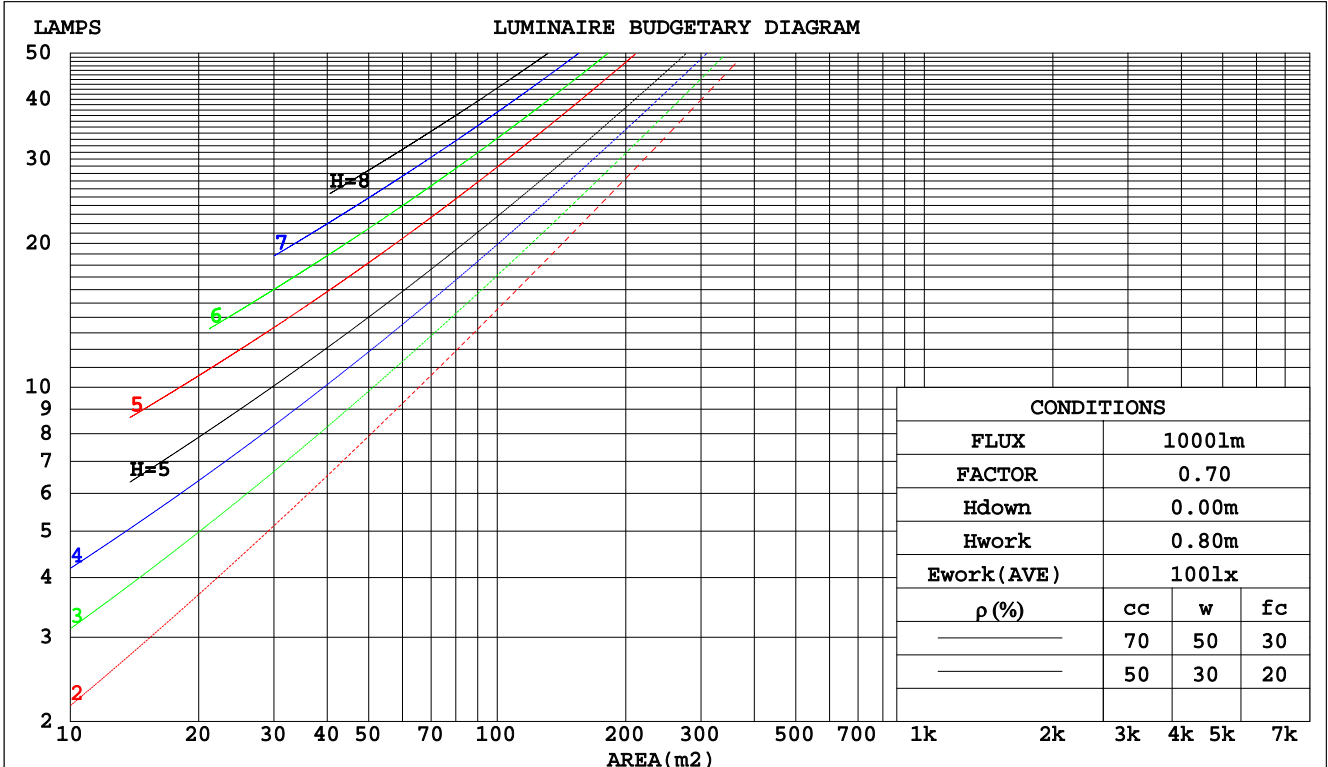
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |

| pcc  | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30% |     |     | 10% |     |     | 0   |
|------|--|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
|      | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pw   |  |      |      |      |      |      |      |      |      |     |     |     |     |     |     | 0   |
| pfc  | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio      Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |
| 0.0  | 1.16   | 1.16 | 1.16 | 1.12 | 1.12 | 1.12 | 1.05 | 1.05 | 1.05 | .98 | .98 | .98 | .92 | .92 | .92 | .89 |
| 1.0  | .99  | .95  | .90  | .96  | .92  | .88  | .90  | .86  | .83  | .84 | .81 | .78 | .78 | .76 | .74 | .71 |
| 2.0  | .86  | .78  | .72  | .83  | .76  | .71  | .77  | .72  | .67  | .73 | .68 | .64 | .68 | .64 | .61 | .58 |
| 3.0  | .75  | .66  | .59  | .72  | .64  | .58  | .68  | .61  | .56  | .63 | .58 | .53 | .60 | .55 | .51 | .48 |
| 4.0  | .66  | .57  | .50  | .64  | .55  | .49  | .60  | .53  | .47  | .56 | .50 | .45 | .53 | .48 | .43 | .41 |
| 5.0  | .59  | .49  | .43  | .57  | .48  | .42  | .53  | .46  | .40  | .50 | .44 | .39 | .47 | .42 | .37 | .35 |
| 6.0  | .53  | .43  | .37  | .51  | .42  | .36  | .48  | .41  | .35  | .45 | .39 | .34 | .43 | .37 | .33 | .30 |
| 7.0  | .48  | .39  | .32  | .46  | .38  | .32  | .44  | .36  | .31  | .41 | .35 | .30 | .39 | .33 | .29 | .27 |
| 8.0  | .43  | .35  | .29  | .42  | .34  | .28  | .40  | .33  | .27  | .38 | .31 | .27 | .36 | .30 | .26 | .24 |
| 9.0  | .40  | .31  | .26  | .39  | .31  | .25  | .37  | .30  | .25  | .35 | .28 | .24 | .33 | .27 | .23 | .21 |
| 10.0 | .36  | .28  | .23  | .36  | .28  | .23  | .34  | .27  | .22  | .32 | .26 | .22 | .31 | .25 | .21 | .19 |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

WEC AND CCEC

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .345                  | .196 | .062 | .334 | .191 | .061 | .315                            | .181 | .058 | .297 | .171 | .055 | .280 | .162 | .052 |   |
| 2.0  | .311                  | .170 | .052 | .301 | .166 | .051 | .284                            | .158 | .049 | .267 | .150 | .047 | .252 | .143 | .045 |   |
| 3.0  | .282                  | .150 | .045 | .273 | .146 | .044 | .258                            | .140 | .042 | .243 | .133 | .041 | .229 | .127 | .039 |   |
| 4.0  | .257                  | .134 | .039 | .249 | .131 | .039 | .235                            | .125 | .037 | .222 | .119 | .036 | .209 | .114 | .035 |   |
| 5.0  | .236                  | .120 | .035 | .229 | .117 | .034 | .216                            | .112 | .033 | .204 | .108 | .032 | .192 | .103 | .031 |   |
| 6.0  | .217                  | .109 | .031 | .211 | .107 | .031 | .199                            | .102 | .030 | .188 | .098 | .029 | .178 | .094 | .028 |   |
| 7.0  | .201                  | .100 | .028 | .196 | .098 | .028 | .185                            | .094 | .027 | .175 | .090 | .026 | .166 | .086 | .025 |   |
| 8.0  | .187                  | .092 | .026 | .182 | .090 | .025 | .173                            | .086 | .025 | .163 | .083 | .024 | .155 | .079 | .023 |   |
| 9.0  | .175                  | .085 | .024 | .170 | .083 | .023 | .162                            | .080 | .023 | .153 | .077 | .022 | .145 | .074 | .021 |   |
| 10.0 | .164                  | .079 | .022 | .160 | .077 | .022 | .152                            | .074 | .021 | .144 | .072 | .020 | .137 | .069 | .020 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .275                  | .275 | .275 | .235 | .235 | .235 | .161                                       | .161 | .161 | .092 | .092 | .092 | .029 | .029 | .029 |   |
| 1.0  | .268                  | .241 | .217 | .229 | .207 | .187 | .157                                       | .142 | .129 | .090 | .082 | .075 | .029 | .027 | .024 |   |
| 2.0  | .261                  | .218 | .182 | .223 | .187 | .157 | .153                                       | .130 | .110 | .088 | .075 | .064 | .028 | .024 | .021 |   |
| 3.0  | .253                  | .201 | .159 | .217 | .173 | .138 | .149                                       | .120 | .097 | .086 | .070 | .057 | .028 | .023 | .019 |   |
| 4.0  | .246                  | .188 | .144 | .211 | .162 | .125 | .145                                       | .113 | .088 | .084 | .066 | .052 | .027 | .022 | .017 |   |
| 5.0  | .238                  | .178 | .133 | .204 | .154 | .116 | .141                                       | .108 | .082 | .082 | .063 | .049 | .026 | .021 | .016 |   |
| 6.0  | .231                  | .170 | .126 | .198 | .147 | .110 | .137                                       | .103 | .078 | .079 | .061 | .046 | .026 | .020 | .015 |   |
| 7.0  | .224                  | .163 | .120 | .193 | .141 | .105 | .133                                       | .099 | .074 | .077 | .058 | .044 | .025 | .019 | .015 |   |
| 8.0  | .217                  | .157 | .116 | .187 | .137 | .101 | .130                                       | .096 | .072 | .075 | .057 | .043 | .024 | .019 | .014 |   |
| 9.0  | .211                  | .153 | .113 | .182 | .132 | .099 | .126                                       | .093 | .070 | .073 | .055 | .042 | .024 | .018 | .014 |   |
| 10.0 | .206                  | .148 | .110 | .177 | .129 | .096 | .123                                       | .091 | .068 | .072 | .054 | .041 | .023 | .018 | .014 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

|   |                  |      |      |      |           |                |      |                     |      |      |
|---|------------------|------|------|------|-----------|----------------|------|---------------------|------|------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |                  |      |      |      |           |                |      |                     |      |      |
| NAME: 4106-40-WH  |                  |      |      |      | TYPE:N/A  |                |      | WEIGHT:N/A          |      |      |
| SPEC.:N/A   |                  |      |      |      | DIM.: N/A |                |      | SERIAL No.:N/A      |      |      |
| MFR.:   |                  |      |      |      | SUR.:N/A  |                |      | Shielding Angle:N/A |      |      |
| 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   | 22.4             | 23.8 | 22.8 | 24.2 | 24.7      | 22.0           | 23.4 | 22.4                | 23.8 | 24.2 |
| 3H  | 24.2             | 25.5 | 24.7 | 25.9 | 26.4      | 23.8           | 25.1 | 24.3                | 25.5 | 26.0 |
| 4H  | 25.0             | 26.2 | 25.5 | 26.7 | 27.2      | 24.7           | 25.9 | 25.2                | 26.4 | 26.9 |
| 6H  | 25.6             | 26.8 | 26.1 | 27.3 | 27.8      | 25.6           | 26.8 | 26.1                | 27.2 | 27.8 |
| 8H  | 25.9             | 27.0 | 26.4 | 27.5 | 28.0      | 26.1           | 27.2 | 26.6                | 27.7 | 28.2 |
| 12H   | 26.1             | 27.2 | 26.6 | 27.7 | 28.2      | 26.6           | 27.7 | 27.2                | 28.2 | 28.8 |
| 4H 2H   | 23.0             | 24.3 | 23.5 | 24.7 | 25.2      | 22.7           | 24.0 | 23.2                | 24.4 | 24.9 |
| 3H  | 25.0             | 26.1 | 25.5 | 26.6 | 27.1      | 24.7           | 25.8 | 25.2                | 26.3 | 26.8 |
| 4H  | 25.9             | 26.9 | 26.5 | 27.5 | 28.0      | 25.8           | 26.8 | 26.3                | 27.3 | 27.8 |
| 6H  | 26.7             | 27.6 | 27.3 | 28.2 | 28.8      | 26.9           | 27.7 | 27.4                | 28.3 | 28.9 |
| 8H  | 27.1             | 27.9 | 27.7 | 28.5 | 29.1      | 27.4           | 28.3 | 28.0                | 28.8 | 29.4 |
| 12H   | 27.4             | 28.2 | 28.0 | 28.7 | 29.4      | 28.1           | 28.9 | 28.7                | 29.4 | 30.1 |
| 8H 4H   | 26.3             | 27.1 | 26.9 | 27.7 | 28.3      | 26.2           | 27.0 | 26.8                | 27.6 | 28.2 |
| 6H  | 27.3             | 28.0 | 27.9 | 28.6 | 29.3      | 27.5           | 28.2 | 28.1                | 28.8 | 29.5 |
| 8H  | 27.8             | 28.4 | 28.4 | 29.0 | 29.7      | 28.3           | 28.9 | 28.9                | 29.5 | 30.2 |
| 12H   | 28.3             | 28.8 | 28.9 | 29.5 | 30.2      | 29.1           | 29.7 | 29.8                | 30.3 | 31.0 |
| 12H 4H  | 26.4             | 27.1 | 27.0 | 27.7 | 28.4      | 26.2           | 27.0 | 26.8                | 27.6 | 28.2 |
| 6H  | 27.5             | 28.1 | 28.1 | 28.7 | 29.4      | 27.7           | 28.3 | 28.3                | 28.9 | 29.6 |
| 8H  | 28.1             | 28.6 | 28.7 | 29.2 | 29.9      | 28.5           | 29.0 | 29.1                | 29.7 | 30.4 |
| Variations with the observer position at spacings:                |                  |      |      |      |           |                |      |                     |      |      |
| S = 1.0H  | + 0.1 / - 0.1    |      |      |      |           | + 0.1 / - 0.1  |      |                     |      |      |
| 1.5H  | + 0.2 / - 0.3    |      |      |      |           | + 0.2 / - 0.3  |      |                     |      |      |
| 2.0H  | + 0.1 / - 0.3    |      |      |      |           | + 0.2 / - 0.4  |      |                     |      |      |

CIE Pub.117 Corrected 6057 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.3)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |

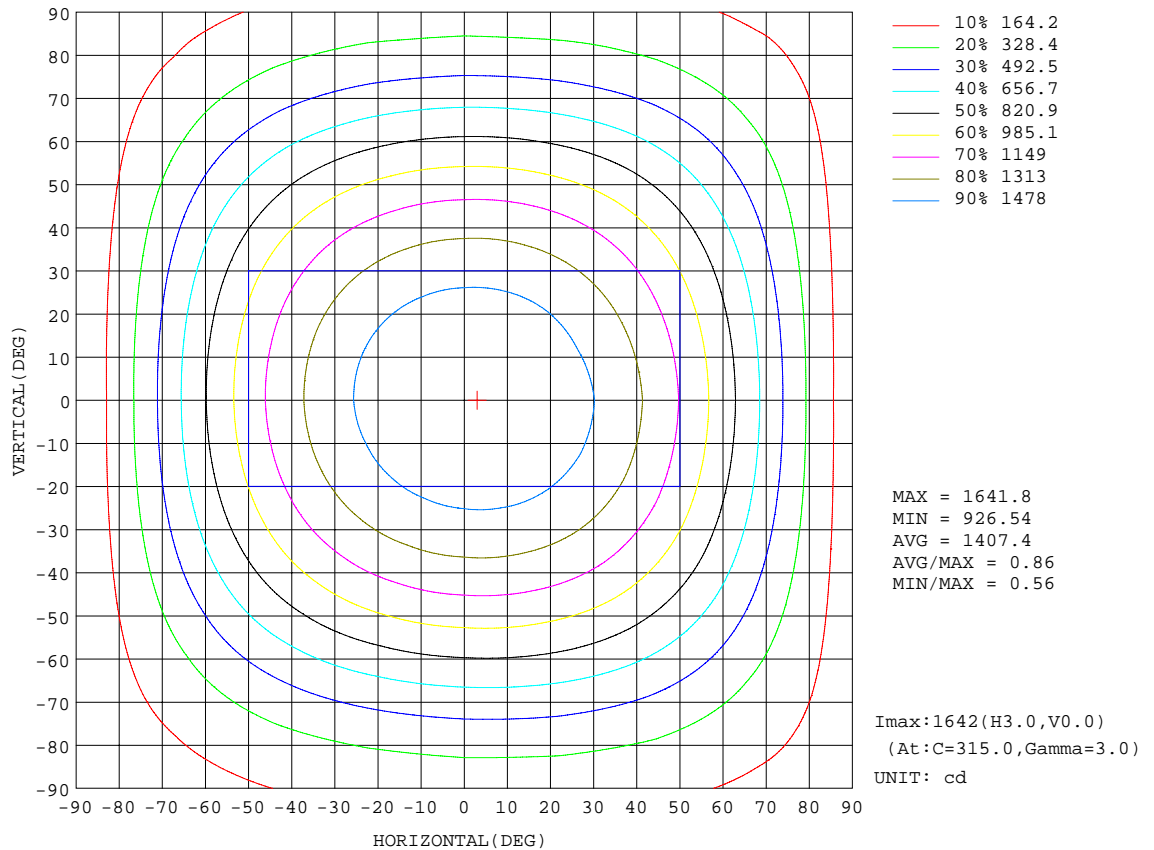
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 52  | 40  | 33        | 51  | 39  | 33  | 49            | 39  | 32  | 25     |
| 0.80                             | 62  | 49  | 42        | 60  | 49  | 41  | 58            | 47  | 40  | 33     |
| 1.00                             | 70  | 58  | 50        | 68  | 57  | 49  | 65            | 57  | 48  | 40     |
| 1.25                             | 77  | 65  | 57        | 75  | 64  | 57  | 71            | 62  | 55  | 46     |
| 1.50                             | 82  | 71  | 63        | 79  | 69  | 62  | 75            | 67  | 60  | 51     |
| 2.00                             | 89  | 79  | 72        | 86  | 77  | 71  | 81            | 74  | 68  | 58     |
| 2.50                             | 93  | 84  | 77        | 90  | 82  | 76  | 85            | 78  | 73  | 62     |
| 3.00                             | 97  | 89  | 82        | 94  | 86  | 80  | 88            | 82  | 77  | 66     |
| 4.00                             | 101   | 94  | 89        | 98  | 92  | 87  | 92            | 87  | 83  | 70     |
| 5.00                             | 104   | 98  | 93        | 100 | 95  | 91  | 94            | 90  | 86  | 73     |
| 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: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |



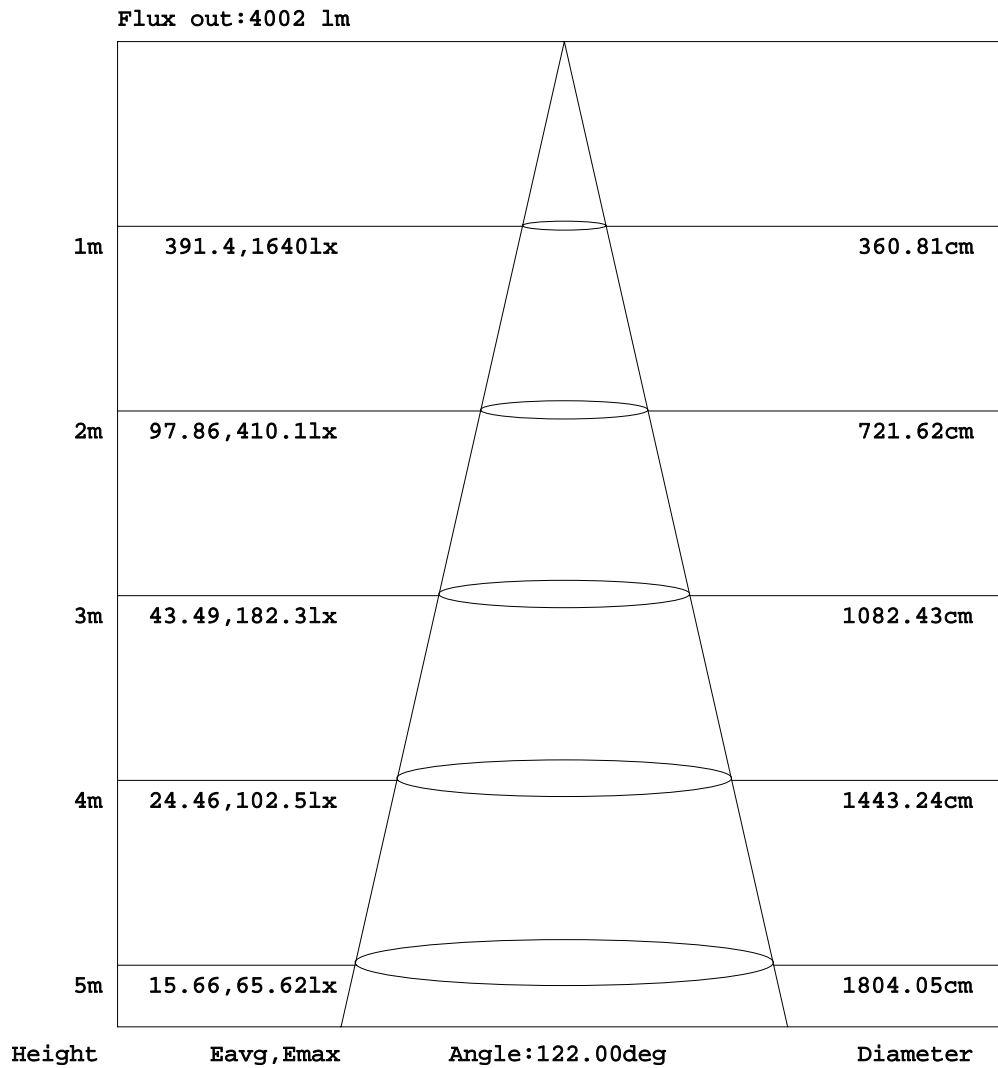
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:



AAI Figure

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |



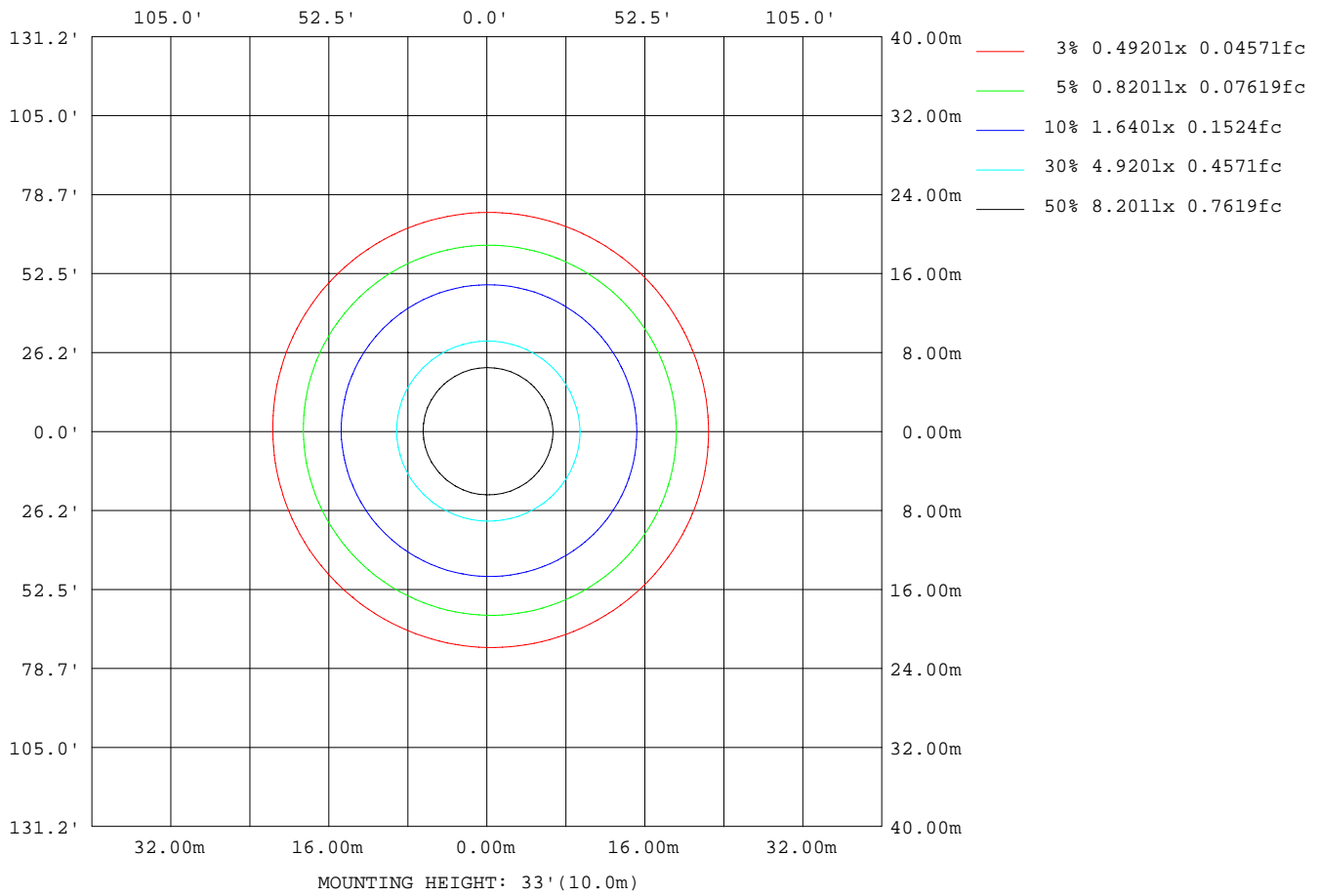
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |

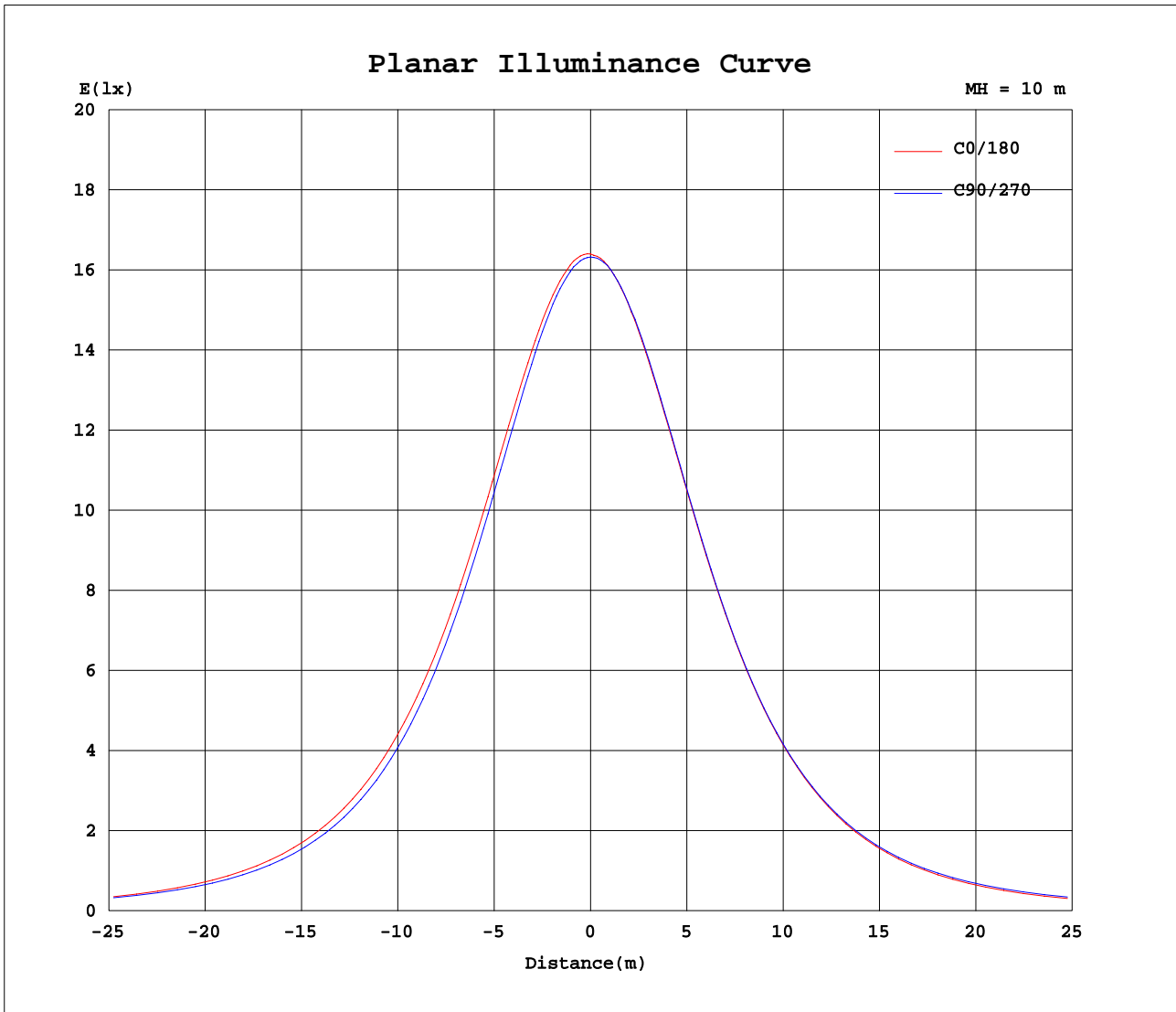
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 16923 |
| L_0~180(75)av  | 16023 |
| L_0~180(85)av  | 17262 |
| L_90~270(65)av | 16823 |
| L_90~270(75)av | 18732 |
| L_90~270(85)av | 35413 |
| L_45(65)av     | 16905 |
| L_45(75)av     | 17763 |
| L_45(85)av     | 29722 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
 Test Distance:2.455m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: 10.0deg/s  
Temperature:25.1DEG  
Operators:Arno  
Test Date:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
Humidity:44%  
Test Distance:2.455m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|   |           |                     |
|---|-----------|---------------------|
| Test:U:120.1V I:0.5775A P:68.35W PF:0.9858 Lamp Flux:6057.02x1 lm |           |                     |
| NAME: 4106-40-WH  | TYPE:N/A  | WEIGHT:N/A          |
| SPEC.:N/A   | DIM.: N/A | SERIAL No.:N/A      |
| MFR.:   | SUR.:N/A  | Shielding Angle:N/A |

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                 | 1634 | 1634 | 1634  | 1634 | 1634 | 1634  | 1634 | 1634  | 1634 | 1634  | 1634 | 1634  | 1634 | 1634  | 1634 | 1634  |  |  |  |
| 5                 | 1635 | 1633 | 1631  | 1630 | 1628 | 1624  | 1625 | 1624  | 1625 | 1625  | 1627 | 1629  | 1632 | 1631  | 1634 | 1633  |  |  |  |
| 10                | 1623 | 1622 | 1618  | 1614 | 1609 | 1603  | 1604 | 1604  | 1604 | 1605  | 1608 | 1609  | 1613 | 1616  | 1621 | 1622  |  |  |  |
| 15                | 1603 | 1599 | 1594  | 1586 | 1579 | 1572  | 1572 | 1574  | 1573 | 1574  | 1577 | 1581  | 1586 | 1590  | 1596 | 1598  |  |  |  |
| 20                | 1572 | 1567 | 1557  | 1546 | 1535 | 1528  | 1529 | 1533  | 1531 | 1534  | 1537 | 1540  | 1544 | 1551  | 1562 | 1565  |  |  |  |
| 25                | 1529 | 1524 | 1509  | 1495 | 1481 | 1473  | 1475 | 1479  | 1480 | 1484  | 1485 | 1488  | 1494 | 1502  | 1515 | 1519  |  |  |  |
| 30                | 1475 | 1468 | 1451  | 1431 | 1415 | 1408  | 1409 | 1416  | 1417 | 1423  | 1423 | 1424  | 1429 | 1440  | 1456 | 1465  |  |  |  |
| 35                | 1409 | 1402 | 1382  | 1358 | 1338 | 1329  | 1332 | 1341  | 1345 | 1349  | 1348 | 1350  | 1356 | 1368  | 1385 | 1397  |  |  |  |
| 40                | 1332 | 1323 | 1300  | 1272 | 1251 | 1241  | 1245 | 1256  | 1260 | 1267  | 1266 | 1266  | 1271 | 1285  | 1304 | 1319  |  |  |  |
| 45                | 1243 | 1233 | 1207  | 1178 | 1155 | 1143  | 1147 | 1159  | 1167 | 1173  | 1173 | 1173  | 1179 | 1192  | 1211 | 1229  |  |  |  |
| 50                | 1139 | 1130 | 1103  | 1072 | 1048 | 1036  | 1040 | 1052  | 1063 | 1071  | 1072 | 1072  | 1078 | 1092  | 1113 | 1130  |  |  |  |
| 55                | 1024 | 1015 | 989   | 959  | 934  | 920   | 922  | 933   | 943  | 953   | 958  | 959   | 967  | 980   | 1000 | 1016  |  |  |  |
| 60                | 896  | 889  | 866   | 838  | 814  | 799   | 797  | 805   | 813  | 828   | 835  | 840   | 848  | 860   | 877  | 890   |  |  |  |
| 65                | 758  | 753  | 736   | 714  | 694  | 675   | 668  | 668   | 673  | 691   | 707  | 718   | 728  | 736   | 747  | 754   |  |  |  |
| 70                | 609  | 609  | 604   | 593  | 577  | 557   | 539  | 527   | 525  | 550   | 577  | 597   | 609  | 613   | 615  | 611   |  |  |  |
| 75                | 455  | 465  | 479   | 482  | 471  | 448   | 419  | 388   | 374  | 409   | 454  | 484   | 499  | 499   | 487  | 466   |  |  |  |
| 80                | 304  | 328  | 366   | 381  | 377  | 352   | 314  | 262   | 233  | 280   | 345  | 385   | 411  | 396   | 374  | 329   |  |  |  |
| 85                | 175  | 217  | 271   | 295  | 298  | 272   | 229  | 168   | 125  | 181   | 255  | 299   | 319  | 310   | 281  | 219   |  |  |  |
| 90                | 110  | 141  | 194   | 226  | 237  | 209   | 164  | 110   | 87.4 | 117   | 182  | 230   | 255  | 238   | 201  | 143   |  |  |  |
| 95                | 87.4 | 103  | 142   | 177  | 190  | 165   | 123  | 84.4  | 69.6 | 88.1  | 134  | 180   | 203  | 186   | 147  | 103   |  |  |  |
| 100               | 72.9 | 88.2 | 117   | 146  | 157  | 138   | 106  | 76.3  | 61.0 | 78.5  | 112  | 147   | 165  | 151   | 119  | 88.1  |  |  |  |
| 105               | 68.4 | 83.3 | 111   | 131  | 139  | 126   | 103  | 75.1  | 60.9 | 76.8  | 107  | 131   | 143  | 133   | 111  | 83.2  |  |  |  |
| 110               | 70.7 | 82.9 | 109   | 126  | 132  | 123   | 102  | 76.1  | 65.3 | 77.8  | 105  | 126   | 134  | 127   | 108  | 82.8  |  |  |  |
| 115               | 74.7 | 84.5 | 107   | 123  | 128  | 120   | 101  | 78.7  | 70.3 | 80.7  | 104  | 122   | 129  | 123   | 106  | 83.9  |  |  |  |
| 120               | 78.6 | 86.0 | 104   | 119  | 124  | 117   | 99.2 | 81.0  | 75.0 | 82.7  | 102  | 119   | 125  | 119   | 103  | 85.9  |  |  |  |
| 125               | 82.2 | 88.0 | 102   | 115  | 120  | 113   | 98.4 | 83.5  | 79.3 | 85.1  | 101  | 116   | 121  | 116   | 101  | 87.6  |  |  |  |
| 130               | 85.1 | 90.3 | 102   | 111  | 116  | 110   | 98.7 | 86.4  | 83.0 | 87.3  | 101  | 112   | 116  | 111   | 100  | 89.7  |  |  |  |
| 135               | 87.4 | 91.9 | 101   | 109  | 112  | 108   | 98.1 | 89.0  | 86.2 | 89.3  | 99.5 | 109   | 112  | 109   | 99.2 | 91.9  |  |  |  |
| 140               | 88.0 | 93.0 | 100.0 | 106  | 110  | 106   | 97.5 | 90.8  | 88.7 | 89.5  | 97.9 | 106   | 109  | 106   | 98.3 | 93.5  |  |  |  |
| 145               | 89.5 | 93.7 | 100   | 104  | 107  | 104   | 98.0 | 91.7  | 90.4 | 91.3  | 96.9 | 103   | 106  | 105   | 97.9 | 94.0  |  |  |  |
| 150               | 91.3 | 93.3 | 100   | 102  | 105  | 102   | 98.1 | 89.3  | 91.8 | 91.1  | 95.9 | 101   | 104  | 103   | 98.4 | 94.8  |  |  |  |
| 155               | 92.3 | 92.4 | 99.9  | 101  | 103  | 102   | 97.9 | 89.6  | 92.2 | 91.3  | 95.2 | 99.9  | 102  | 102   | 99.0 | 96.3  |  |  |  |
| 160               | 90.8 | 92.1 | 96.9  | 98.3 | 102  | 100   | 92.0 | 91.4  | 91.0 | 87.0  | 90.9 | 94.6  | 97.7 | 99.6  | 96.0 | 94.3  |  |  |  |
| 165               | 87.2 | 88.9 | 92.3  | 93.0 | 97.5 | 89.6  | 84.7 | 85.3  | 86.9 | 84.5  | 83.2 | 88.0  | 94.7 | 99.1  | 97.8 | 89.8  |  |  |  |
| 170               | 85.8 | 83.5 | 85.1  | 87.7 | 84.8 | 81.9  | 83.2 | 77.8  | 84.0 | 82.4  | 75.8 | 83.0  | 82.4 | 87.8  | 89.2 | 84.8  |  |  |  |
| 175               | 85.2 | 81.8 | 80.3  | 77.5 | 64.5 | 83.5  | 78.8 | 80.6  | 84.6 | 84.4  | 79.4 | 78.0  | 85.2 | 68.5  | 77.2 | 80.7  |  |  |  |
| 180               | 83.9 | 83.5 | 82.1  | 80.7 | 99.2 | 83.5  | 73.8 | 78.2  | 83.4 | 83.4  | 83.1 | 82.0  | 80.4 | 89.1  | 81.2 | 80.1  |  |  |  |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: 10.0deg/s  
 Temperature:25.1DEG  
 Operators:Arno  
 Test Date:

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.351  
 Humidity:44%  
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 Remarks: