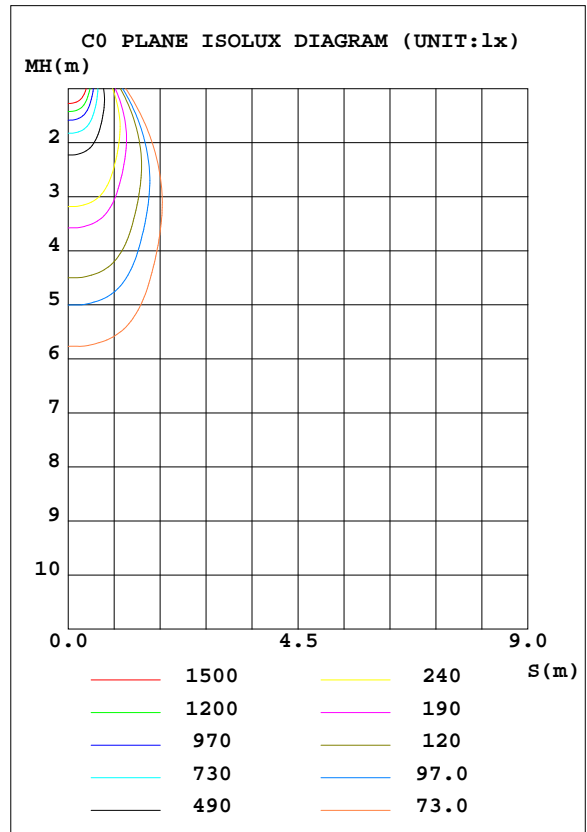
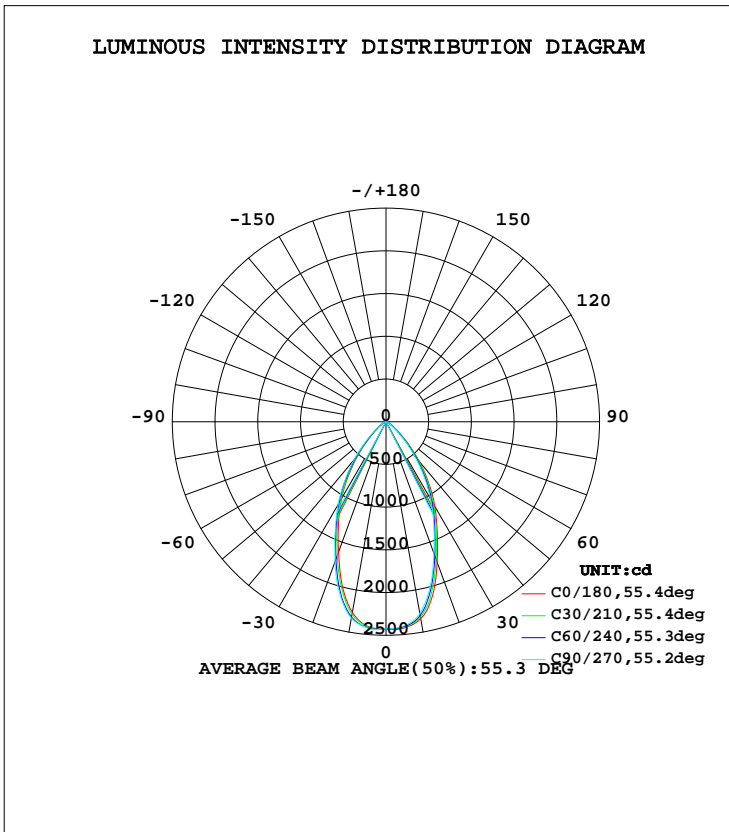


LUMINAIRE PHOTOMETRIC TEST REPORT

|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 113.77 lm/W |        |                    |           |
|------------------|------------|-----------------------------------|--------|--------------------|-----------|
| MODEL            | CD20W-NW-B | I <sub>max</sub> (cd)             | 2436   | S/MH(C0/180)       | 0.84      |
| NOMINAL POWER(W) | 20         | LOR(%)                            | 100.0  | S/MH(C90/270)      | 0.80      |
| RATED VOLTAGE(V) | 240        | TOTAL FLUX(lm)                    | 2343.8 | η UP, DN(C0-180)   | 0.0, 49.4 |
| NOMINAL FLUX(lm) | 2343.75    | CIE CLASS                         | DIRECT | η UP, DN(C180-360) | 0.0, 50.6 |
| LAMPS INSIDE     | 1          | η up(%)                           | 0.0    | CIBSE SHR NOM      | 0.75      |
| TEST VOLTAGE(V)  | 240.1      | η down(%)                         | 100.0  | CIBSE SHR MAX      | 0.90      |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------------|
| 10       | 2340                  | 2313  | 2279  | 2263  | 2265  | 2305  | 2336  | 2337  | 0- 10    | 227.0       | 227.0        | 9.68,9.68       |
| 20       | 1750                  | 1694  | 1642  | 1619  | 1625  | 1692  | 1744  | 1751  | 10- 20   | 564.8       | 791.8        | 33.8,33.8       |
| 30       | 1144                  | 1092  | 1044  | 1026  | 1041  | 1081  | 1122  | 1138  | 20- 30   | 627.5       | 1419         | 60.6,60.6       |
| 40       | 605.5                 | 565.3 | 520.5 | 503.9 | 506.0 | 543.4 | 579.3 | 596.5 | 30- 40   | 504.4       | 1924         | 82.1,82.1       |
| 50       | 203.7                 | 187.8 | 168.6 | 158.7 | 156.8 | 174.4 | 195.4 | 198.6 | 40- 50   | 262.1       | 2186         | 93.3,93.3       |
| 60       | 63.11                 | 59.02 | 55.29 | 53.61 | 54.17 | 57.49 | 61.18 | 62.41 | 50- 60   | 94.15       | 2280         | 97.3,97.3       |
| 70       | 33.09                 | 31.49 | 29.30 | 28.42 | 28.42 | 29.38 | 31.76 | 32.42 | 60- 70   | 42.60       | 2322         | 99.1,99.1       |
| 80       | 9.955                 | 7.702 | 4.618 | 3.552 | 4.041 | 6.420 | 8.960 | 9.669 | 70- 80   | 20.30       | 2343         | 100,100         |
| 90       | 0                     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 80- 90   | 1.006       | 2344         | 100,100         |
| 100      |                       |       |       |       |       |       |       |       | 90-100   |             |              |                 |
| 110      |                       |       |       |       |       |       |       |       | 100-110  |             |              |                 |
| 120      |                       |       |       |       |       |       |       |       | 110-120  |             |              |                 |
| 130      |                       |       |       |       |       |       |       |       | 120-130  |             |              |                 |
| 140      |                       |       |       |       |       |       |       |       | 130-140  |             |              |                 |
| 150      |                       |       |       |       |       |       |       |       | 140-150  |             |              |                 |
| 160      |                       |       |       |       |       |       |       |       | 150-160  |             |              |                 |
| 170      |                       |       |       |       |       |       |       |       | 160-170  |             |              |                 |
| 180      |                       |       |       |       |       |       |       |       | 170-180  |             |              |                 |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |                 |

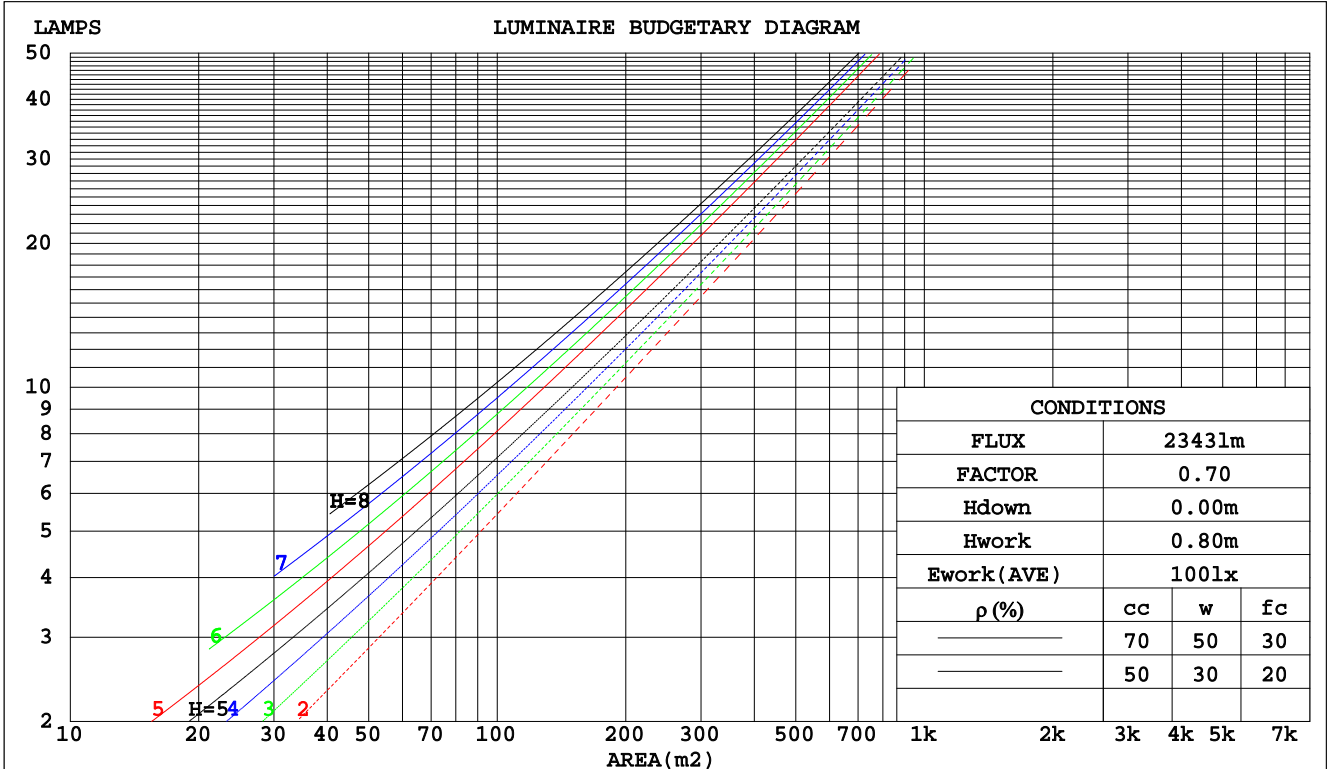
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |

| 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  | 1.19   | 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  | 1.10   | 1.07 | 1.05 | 1.08 | 1.05 | 1.03 | 1.04 | 1.02 | .00  | .00  | .98  | .97  | .96  | .95  | .94  | .92 |
| 2.0  | 1.01   | .97  | .93  | .99  | .95  | .92  | .96  | .93  | .90  | .93  | .90  | .88  | .90  | .88  | .86  | .84 |
| 3.0  | .93  | .88  | .83  | .92  | .87  | .83  | .89  | .85  | .81  | .87  | .83  | .80  | .84  | .81  | .79  | .77 |
| 4.0  | .86  | .80  | .76  | .85  | .80  | .75  | .83  | .78  | .74  | .81  | .77  | .73  | .79  | .75  | .72  | .71 |
| 5.0  | .80  | .74  | .69  | .79  | .73  | .69  | .77  | .72  | .68  | .76  | .71  | .67  | .74  | .70  | .67  | .65 |
| 6.0  | .75  | .68  | .63  | .74  | .68  | .63  | .72  | .67  | .63  | .71  | .66  | .62  | .69  | .65  | .62  | .60 |
| 7.0  | .70  | .63  | .59  | .69  | .63  | .59  | .68  | .62  | .58  | .67  | .62  | .58  | .65  | .61  | .58  | .56 |
| 8.0  | .65  | .59  | .54  | .65  | .59  | .54  | .64  | .58  | .54  | .63  | .58  | .54  | .62  | .57  | .54  | .52 |
| 9.0  | .61  | .55  | .51  | .61  | .55  | .51  | .60  | .54  | .51  | .59  | .54  | .50  | .58  | .54  | .50  | .49 |
| 10.0 | .58  | .52  | .48  | .57  | .51  | .47  | .57  | .51  | .47  | .56  | .51  | .47  | .55  | .50  | .47  | .46 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

WEC AND CCEC

|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |

| 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  | .197                  | .112 | .035 | .190 | .108 | .034 | .177                            | .102 | .032 | .165 | .095 | .031 | .155 | .090 | .029 |   |
| 2.0  | .190                  | .104 | .032 | .184 | .101 | .031 | .173                            | .096 | .030 | .163 | .092 | .029 | .154 | .087 | .027 |   |
| 3.0  | .181                  | .096 | .029 | .176 | .094 | .028 | .167                            | .090 | .027 | .158 | .087 | .027 | .150 | .083 | .026 |   |
| 4.0  | .172                  | .089 | .026 | .167 | .088 | .026 | .159                            | .085 | .025 | .152 | .082 | .025 | .145 | .079 | .024 |   |
| 5.0  | .163                  | .083 | .024 | .159 | .082 | .024 | .152                            | .079 | .023 | .146 | .077 | .023 | .139 | .075 | .022 |   |
| 6.0  | .155                  | .078 | .022 | .152 | .077 | .022 | .145                            | .075 | .022 | .140 | .073 | .021 | .134 | .071 | .021 |   |
| 7.0  | .147                  | .073 | .021 | .144 | .072 | .021 | .139                            | .070 | .020 | .134 | .069 | .020 | .129 | .067 | .020 |   |
| 8.0  | .140                  | .069 | .019 | .138 | .068 | .019 | .133                            | .066 | .019 | .128 | .065 | .019 | .124 | .064 | .019 |   |
| 9.0  | .134                  | .065 | .018 | .132 | .064 | .018 | .127                            | .063 | .018 | .123 | .062 | .018 | .119 | .060 | .017 |   |
| 10.0 | .128                  | .061 | .017 | .126 | .061 | .017 | .122                            | .060 | .017 | .118 | .059 | .017 | .114 | .058 | .017 |   |

| 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  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0  | .172                  | .157 | .143 | .148 | .135 | .123 | .101                                       | .093 | .085 | .058 | .054 | .050 | .019 | .017 | .016 |   |
| 2.0  | .159                  | .132 | .110 | .136 | .114 | .095 | .093                                       | .079 | .067 | .054 | .046 | .039 | .017 | .015 | .013 |   |
| 3.0  | .147                  | .114 | .087 | .126 | .098 | .075 | .087                                       | .068 | .053 | .050 | .040 | .031 | .016 | .013 | .010 |   |
| 4.0  | .138                  | .099 | .070 | .118 | .086 | .061 | .081                                       | .060 | .043 | .047 | .035 | .025 | .015 | .011 | .008 |   |
| 5.0  | .130                  | .088 | .057 | .111 | .076 | .050 | .077                                       | .053 | .035 | .044 | .031 | .021 | .014 | .010 | .007 |   |
| 6.0  | .122                  | .079 | .048 | .105 | .068 | .041 | .073                                       | .048 | .029 | .042 | .028 | .017 | .014 | .009 | .006 |   |
| 7.0  | .116                  | .071 | .040 | .100 | .062 | .035 | .069                                       | .043 | .025 | .040 | .026 | .015 | .013 | .008 | .005 |   |
| 8.0  | .110                  | .065 | .034 | .095 | .057 | .030 | .066                                       | .040 | .021 | .038 | .023 | .013 | .012 | .008 | .004 |   |
| 9.0  | .105                  | .060 | .030 | .091 | .052 | .026 | .063                                       | .037 | .019 | .037 | .022 | .011 | .012 | .007 | .004 |   |
| 10.0 | .100                  | .056 | .026 | .087 | .049 | .023 | .060                                       | .034 | .016 | .035 | .020 | .010 | .011 | .007 | .003 |   |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

|   |                  |      |      |      |             |                |      |                   |      |      |
|---|------------------|------|------|------|-------------|----------------|------|-------------------|------|------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |                  |      |      |      |             |                |      |                   |      |      |
| NAME: CD20W-NW-B  |                  |      |      |      | TYPE:20W    |                |      | WEIGHT:           |      |      |
| DIM.:   |                  |      |      |      | SPEC.:4000K |                |      | SERIAL No.:1      |      |      |
| MFR.:   |                  |      |      |      | SUR.:0.04   |                |      | PROTECTION 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   | 24.6             | 25.7 | 24.9 | 25.9 | 26.0        | 24.0           | 25.1 | 24.2              | 25.2 | 25.4 |
| 3H  | 24.7             | 25.7 | 25.0 | 25.9 | 26.1        | 24.1           | 25.0 | 24.3              | 25.2 | 25.5 |
| 4H  | 24.7             | 25.7 | 25.0 | 25.9 | 26.1        | 24.1           | 25.0 | 24.4              | 25.2 | 25.5 |
| 6H  | 24.7             | 25.6 | 25.0 | 25.8 | 26.1        | 24.0           | 24.9 | 24.3              | 25.1 | 25.4 |
| 8H  | 24.7             | 25.5 | 25.0 | 25.8 | 26.0        | 24.0           | 24.8 | 24.3              | 25.1 | 25.3 |
| 12H   | 24.6             | 25.4 | 25.0 | 25.7 | 26.0        | 23.9           | 24.7 | 24.3              | 25.0 | 25.3 |
| 4H 2H   | 24.5             | 25.4 | 24.8 | 25.7 | 25.9        | 23.9           | 24.8 | 24.2              | 25.1 | 25.3 |
| 3H  | 24.7             | 25.5 | 25.0 | 25.7 | 26.0        | 24.1           | 24.9 | 24.4              | 25.1 | 25.4 |
| 4H  | 24.8             | 25.5 | 25.1 | 25.8 | 26.1        | 24.1           | 24.8 | 24.5              | 25.1 | 25.5 |
| 6H  | 24.8             | 25.4 | 25.2 | 25.8 | 26.1        | 24.1           | 24.7 | 24.5              | 25.1 | 25.4 |
| 8H  | 24.7             | 25.3 | 25.1 | 25.7 | 26.1        | 24.1           | 24.6 | 24.5              | 25.0 | 25.4 |
| 12H   | 24.7             | 25.2 | 25.1 | 25.6 | 26.0        | 24.0           | 24.5 | 24.4              | 24.9 | 25.3 |
| 8H 4H   | 24.7             | 25.3 | 25.1 | 25.6 | 26.0        | 24.1           | 24.7 | 24.5              | 25.0 | 25.4 |
| 6H  | 24.8             | 25.2 | 25.2 | 25.6 | 26.0        | 24.1           | 24.6 | 24.5              | 25.0 | 25.4 |
| 8H  | 24.7             | 25.1 | 25.2 | 25.6 | 26.0        | 24.0           | 24.5 | 24.5              | 24.9 | 25.3 |
| 12H   | 24.7             | 25.0 | 25.1 | 25.5 | 25.9        | 24.0           | 24.3 | 24.5              | 24.8 | 25.3 |
| 12H 4H  | 24.7             | 25.2 | 25.1 | 25.6 | 26.0        | 24.0           | 24.6 | 24.5              | 25.0 | 25.3 |
| 6H  | 24.7             | 25.1 | 25.2 | 25.5 | 26.0        | 24.0           | 24.5 | 24.5              | 24.9 | 25.3 |
| 8H  | 24.7             | 25.0 | 25.1 | 25.5 | 25.9        | 24.0           | 24.3 | 24.5              | 24.8 | 25.3 |
| Variations with the observer position at spacings:                |                  |      |      |      |             |                |      |                   |      |      |
| S = 1.0H  | + 1.8 / - 3.4    |      |      |      |             | + 1.9 / - 3.7  |      |                   |      |      |
| 1.5H  | + 2.8 / - 3.1    |      |      |      |             | + 2.7 / - 3.2  |      |                   |      |      |
| 2.0H  | + 4.2 / - 2.9    |      |      |      |             | + 3.8 / - 2.8  |      |                   |      |      |

CIE Pub.117 Corrected 2344 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.0)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |

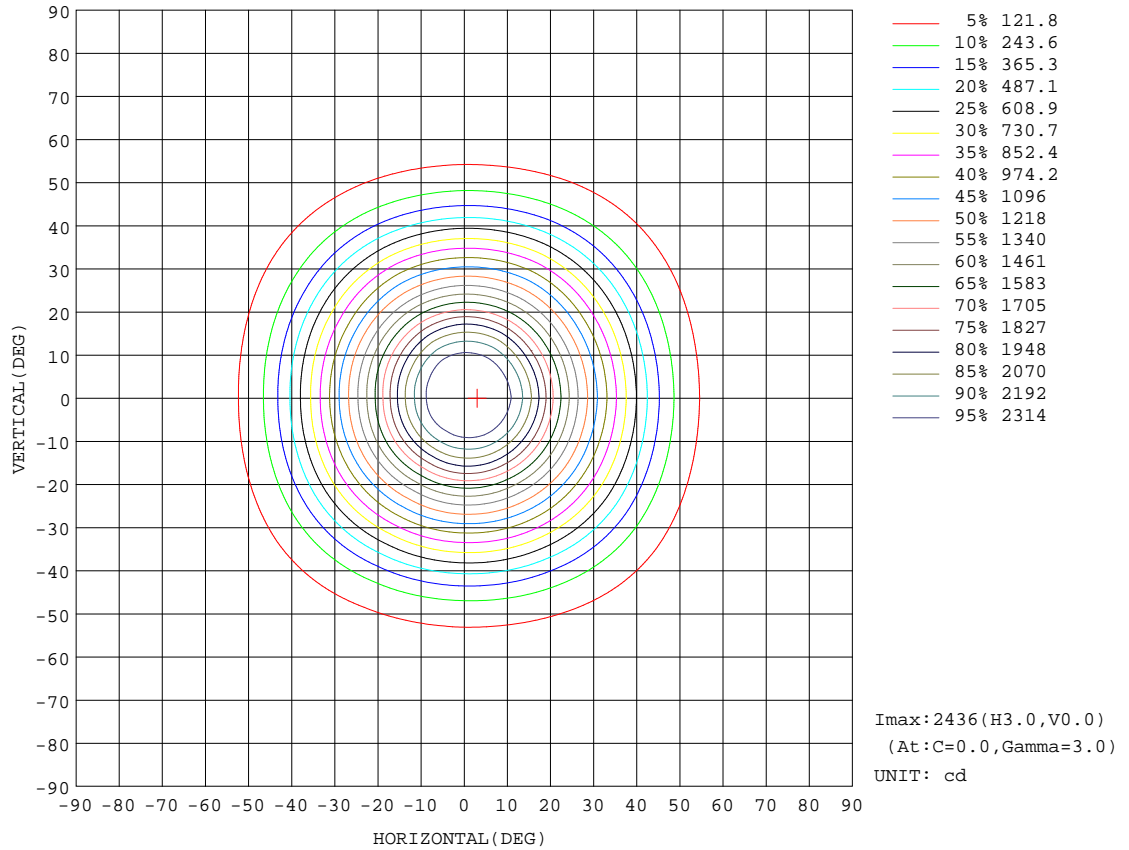
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 80  | 73  | 68        | 80  | 72  | 68  | 79            | 72  | 68  | 64     |
| 0.80                             | 89  | 82  | 77        | 88  | 81  | 77  | 87            | 81  | 76  | 72     |
| 1.00                             | 94  | 88  | 83        | 94  | 87  | 83  | 92            | 87  | 83  | 78     |
| 1.25                             | 99  | 93  | 89        | 98  | 92  | 89  | 96            | 91  | 88  | 83     |
| 1.50                             | 103   | 97  | 93        | 101 | 96  | 92  | 99            | 95  | 91  | 86     |
| 2.00                             | 106   | 101 | 98        | 105 | 100 | 97  | 102           | 98  | 95  | 90     |
| 2.50                             | 108   | 104 | 100       | 107 | 102 | 99  | 103           | 100 | 97  | 91     |
| 3.00                             | 110   | 106 | 103       | 108 | 105 | 102 | 105           | 102 | 100 | 93     |
| 4.00                             | 112   | 109 | 107       | 110 | 108 | 105 | 107           | 104 | 102 | 95     |
| 5.00                             | 114   | 111 | 109       | 112 | 109 | 107 | 108           | 106 | 104 | 96     |
| 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:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |

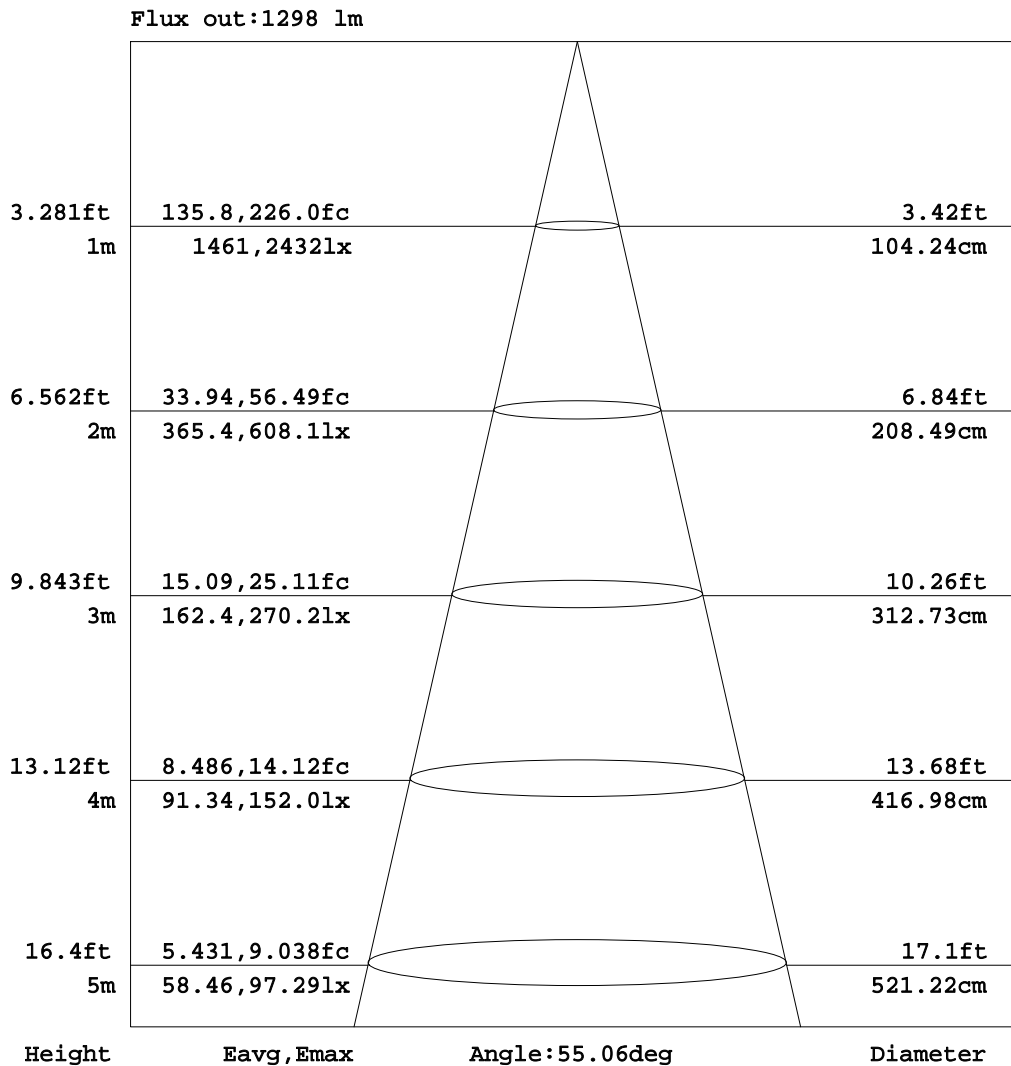


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 9.600m [K=1.0000]  
 Remarks:

AAI Figure

|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |



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

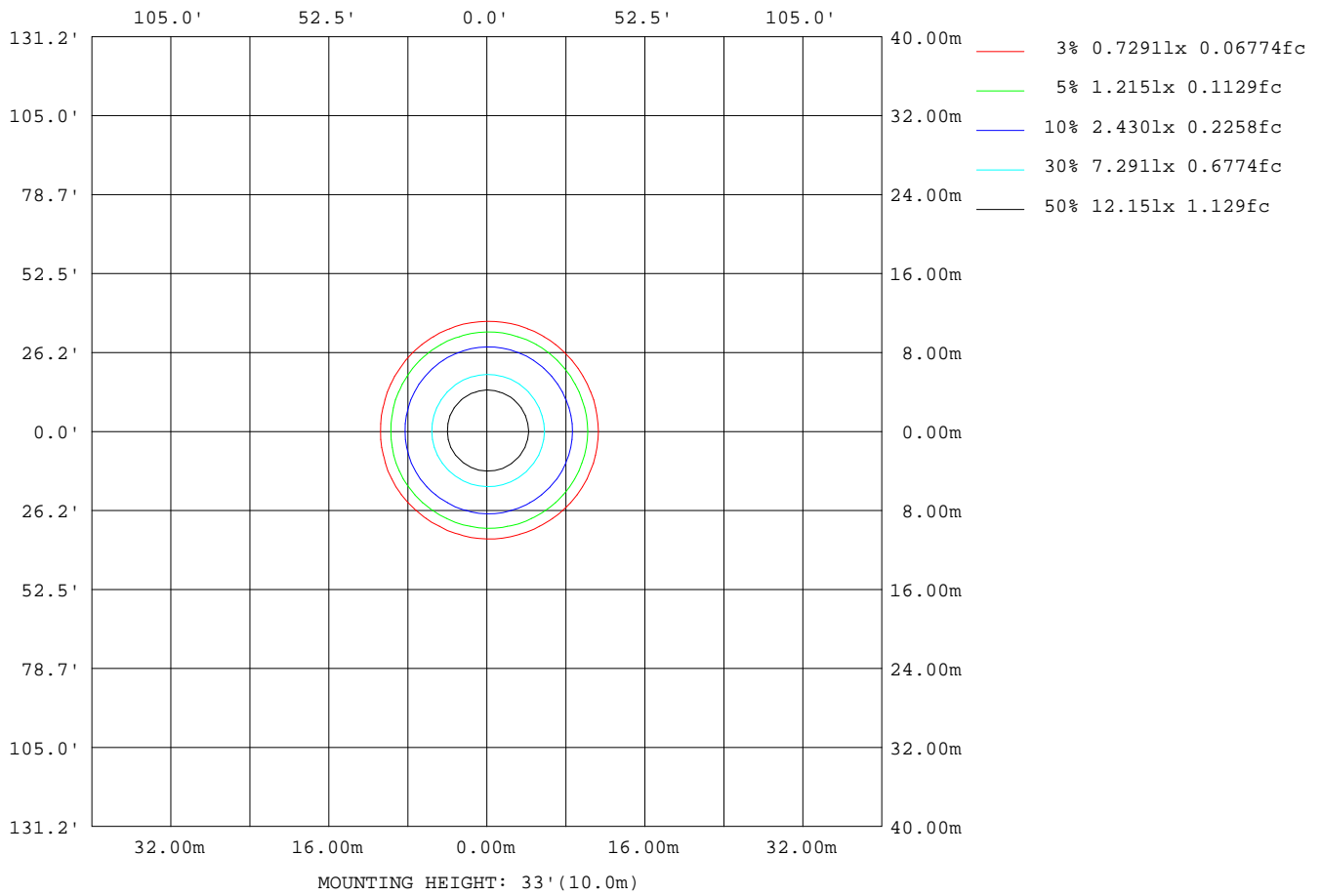
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:



**ISOLUX DIAGRAM**

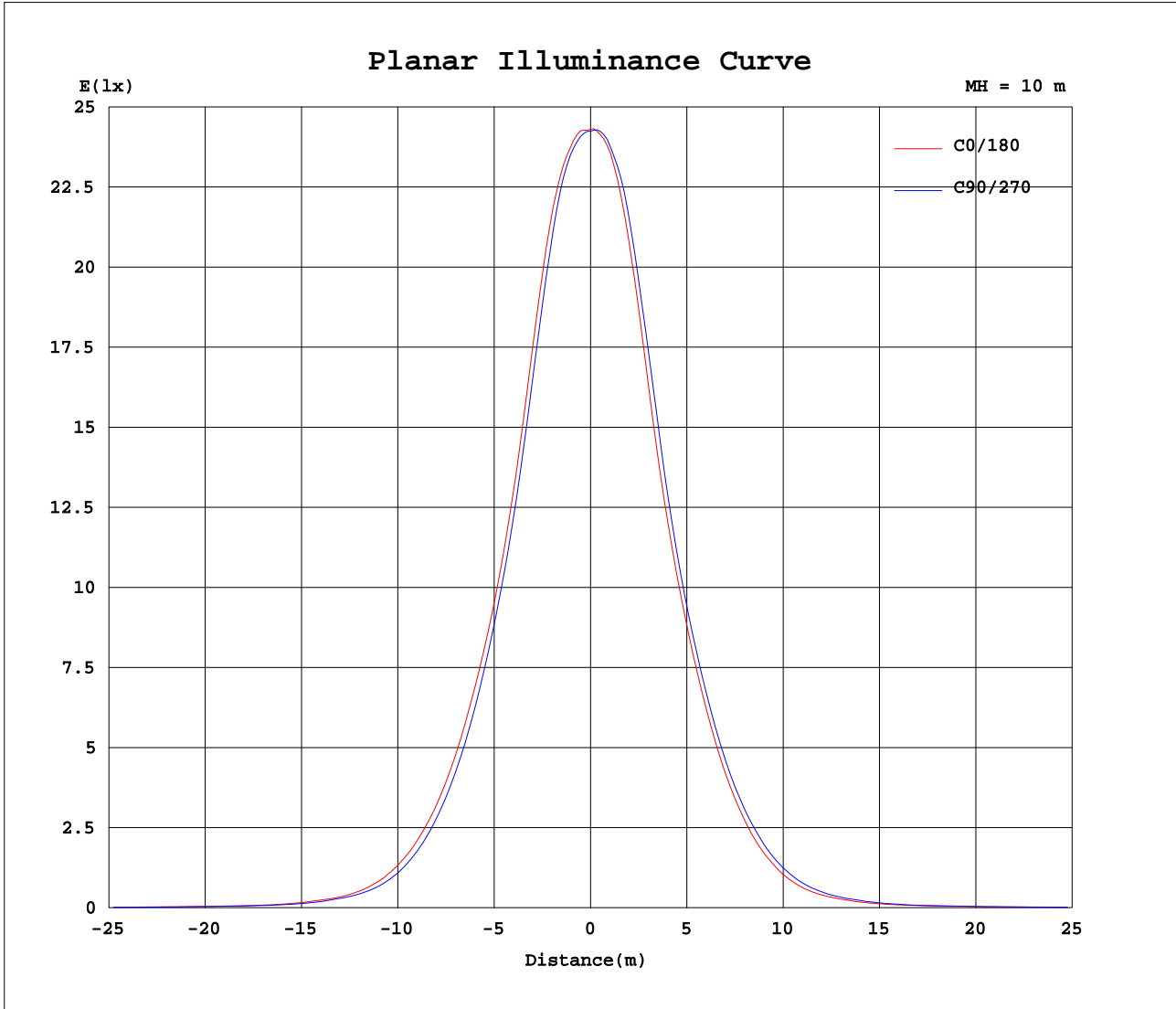
|   |             |                   |
|---|-------------|-------------------|
| Test:U:240.1V I:0.0950A P:20.60W PF:0.8980 Lamp Flux:2343.75x1 lm |             |                   |
| NAME: CD20W-NW-B  | TYPE:20W    | WEIGHT:           |
| DIM.:   | SPEC.:4000K | SERIAL No.:1      |
| MFR.:   | SUR.:0.04   | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.600m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2018-10-15

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 9.600m [K=1.0000]  
 Remarks:

