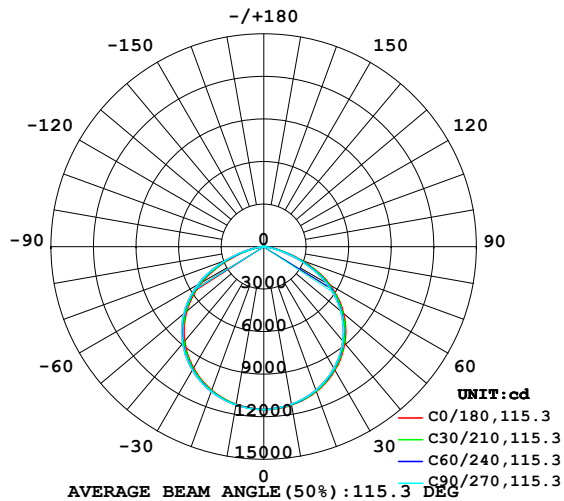


## LUMINAIRE PHOTOMETRIC TEST REPORT

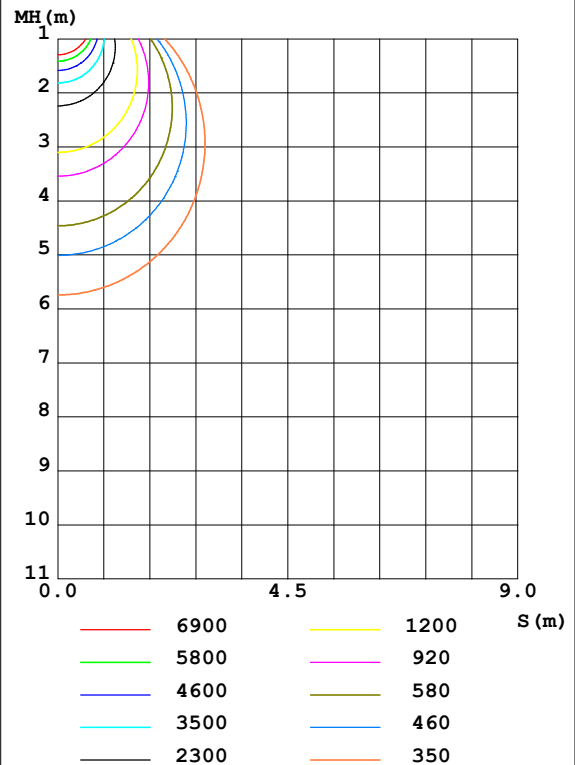
|  |                      |                  |
|--|----------------------|------------------|
| Test:U:229.7V I:1.051A P:234.1W PF:0.9693 Lamp Flux:32683.3x1 lm |                      |                  |
| NAME: HB08-240   | TYPE:240W            | WEIGHT:          |
| SPEC.:5000K Ra70 120DEG H00A02                                   | DIM.: 0.39*0.39*0.12 | SERIAL No.:      |
| MFR.:  | SUR.:0.23*0.23       | Shielding Angle: |

| DATA OF LAMP     |          | PHOTOMETRIC DATA Eff: 139.60 lm/W |        |                    |          |
|------------------|----------|-----------------------------------|--------|--------------------|----------|
| MODEL            | HB08-240 | I <sub>max</sub> (cd)             | 11483  | S/MH (C0/180)      | 1.28     |
| NOMINAL POWER(W) | 240      | LOR(%)                            | 100.0  | S/MH (C90/270)     | 1.30     |
| RATED VOLTAGE(V) | 230      | TOTAL FLUX(lm)                    | 32683  | η UP,DN (C0-180)   | 0.4,49.0 |
| NOMINAL FLUX(lm) | 32683.3  | CIE CLASS                         | DIRECT | η UP,DN (C180-360) | 0.4,50.2 |
| LAMPS INSIDE     | 1        | η up (%)                          | 0.8    | CIBSE SHR NOM      | 1.25     |
| TEST VOLTAGE (V) | 230      | η down (%)                        | 99.2   | CIBSE SHR MAX      | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2016-06-14

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                       | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 1134                     | 1130   | 1128   | 1128   | 1129   | 1132   | 1134   | 1134   | 0- 10    | 1088        | 1088         | 3.33,3.33  |
| 20       | 1086                     | 1080   | 1076   | 1075   | 1077   | 1084   | 1087   | 1088   | 10- 20   | 3136        | 4224         | 12.9,12.9  |
| 30       | 1005                     | 995.0  | 989.4  | 988.4  | 991.3  | 1002   | 1007   | 1008   | 20- 30   | 4815        | 9039         | 27.7,27.7  |
| 40       | 889.3                    | 875.5  | 867.7  | 866.3  | 870.2  | 884.1  | 891.6  | 893.0  | 30- 40   | 5902        | 14941        | 45.7,45.7  |
| 50       | 734.8                    | 717.2  | 707.6  | 705.8  | 710.3  | 728.2  | 737.7  | 739.3  | 40- 50   | 6213        | 21154        | 64.7,64.7  |
| 60       | 538.8                    | 517.2  | 505.6  | 503.2  | 508.7  | 530.4  | 541.6  | 543.8  | 50- 60   | 5604        | 26758        | 81.9,81.9  |
| 70       | 287.0                    | 262.6  | 249.8  | 247.7  | 251.5  | 277.9  | 291.5  | 291.9  | 60- 70   | 3951        | 30709        | 94,94      |
| 80       | 59.86                    | 44.11  | 41.59  | 37.86  | 42.21  | 51.29  | 60.01  | 62.13  | 70- 80   | 1597        | 32306        | 98.8,98.8  |
| 90       | 0.8845                   | 0.9457 | 0.9797 | 0.9846 | 0.9300 | 0.8705 | 0.8396 | 0.8331 | 80- 90   | 115.9       | 32422        | 99.2,99.2  |
| 100      | 1.671                    | 1.765  | 1.817  | 1.825  | 1.746  | 1.654  | 1.609  | 1.596  | 90-100   | 14.00       | 32436        | 99.2,99.2  |
| 110      | 2.705                    | 2.821  | 2.890  | 2.895  | 2.800  | 2.683  | 2.626  | 2.617  | 100-110  | 23.45       | 32459        | 99.3,99.3  |
| 120      | 3.822                    | 3.946  | 4.020  | 4.028  | 3.924  | 3.797  | 3.730  | 3.726  | 110-120  | 32.79       | 32492        | 99.4,99.4  |
| 130      | 4.999                    | 5.129  | 5.207  | 5.214  | 5.114  | 4.980  | 4.907  | 4.902  | 120-130  | 39.92       | 32532        | 99.5,99.5  |
| 140      | 6.144                    | 6.254  | 6.319  | 6.329  | 6.242  | 6.125  | 6.062  | 6.055  | 130-140  | 43.53       | 32575        | 99.7,99.7  |
| 150      | 7.100                    | 7.186  | 7.240  | 7.248  | 7.181  | 7.088  | 7.042  | 7.037  | 140-150  | 41.85       | 32617        | 99.8,99.8  |
| 160      | 7.869                    | 7.935  | 7.977  | 7.983  | 7.943  | 7.877  | 7.841  | 7.841  | 150-160  | 34.79       | 32652        | 99.9,99.9  |
| 170      | 8.452                    | 8.496  | 8.526  | 8.529  | 8.514  | 8.474  | 8.452  | 8.455  | 160-170  | 23.20       | 32675        | 100,100    |
| 180      | 8.695                    | 8.714  | 8.726  | 8.722  | 8.710  | 8.713  | 8.713  | 8.721  | 170-180  | 8.207       | 32683        | 100,100    |
| DEG      | LUMINOUS INTENSITY:×10cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |            |

Conical surface Flux(90deg): 18688 lm

%lum = 57.2%

%lamp = 57.2%

Conical surface Flux(120deg): 26758 lm

%lum = 81.9%

%lamp = 81.9%

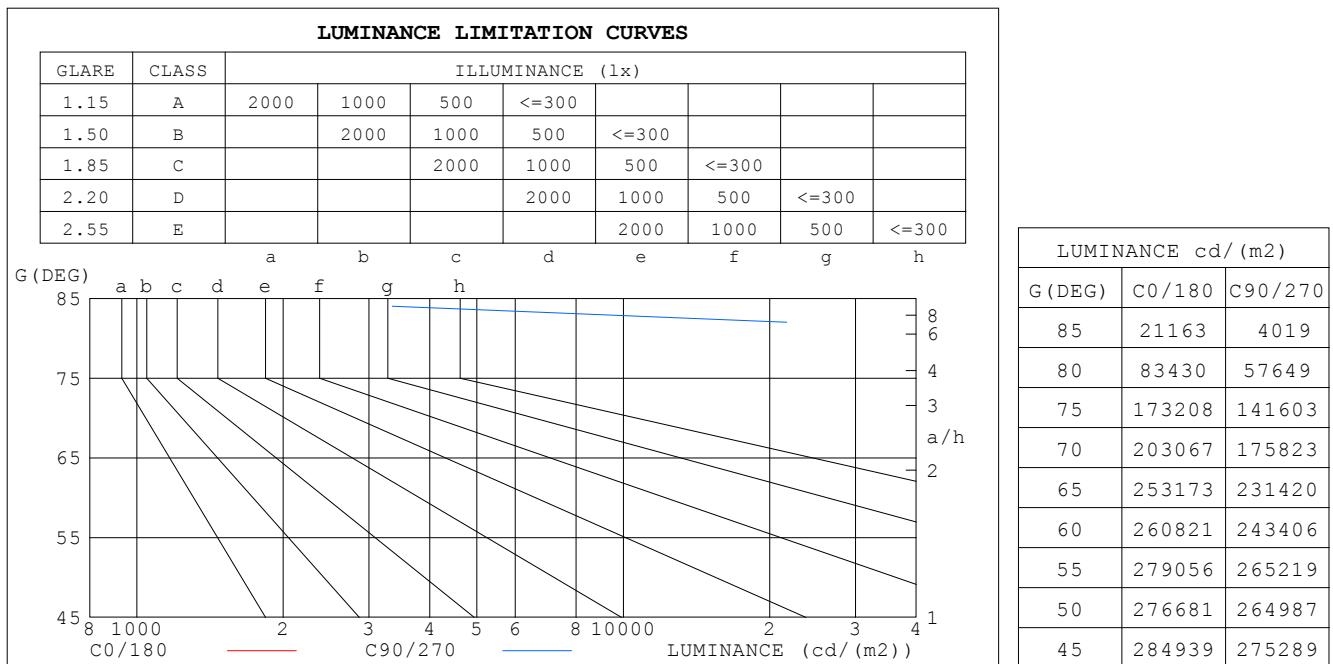
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2016-06-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

## LUMINANCE LIMITATION CURVES



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2016-06-14

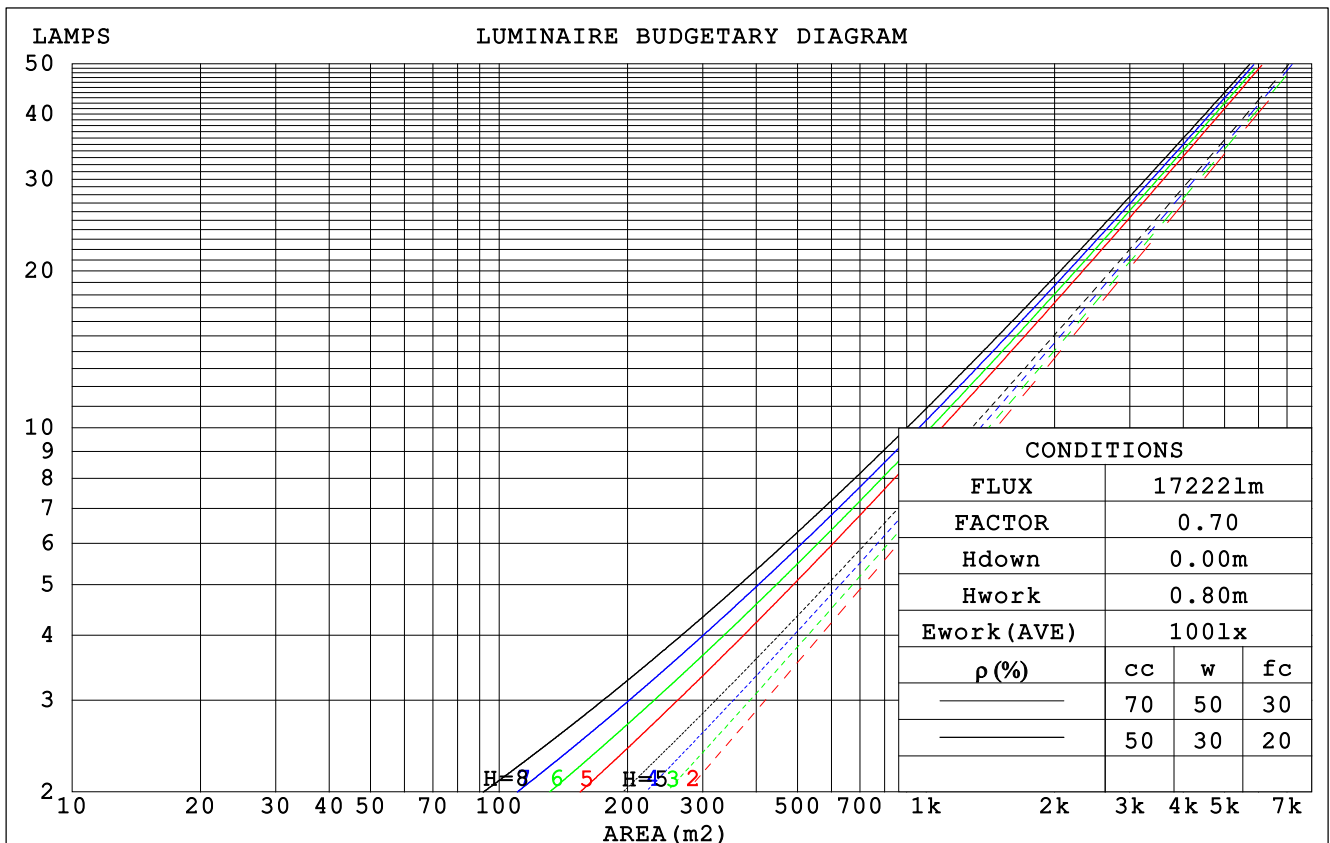
Checker:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.470m [K=1.0000]  
Remarks:

Assessor:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| pcc  | 80%                   |      |      | 70%                             |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|-----------------------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| pw   | 50%                   | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pfc  | 20%                   |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0   |
| RCR  | RCR:Room Cavity Ratio |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16                            | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0  | 1.05                  | 1.01 | .98  | 1.03                            | .99  | .96  | .98  | .95  | .93  | .94  | .92  | .90  | .91  | .89  | .87  | .85 |
| 2.0  | .92                   | .85  | .80  | .90                             | .84  | .79  | .86  | .81  | .77  | .83  | .79  | .75  | .80  | .76  | .73  | .71 |
| 3.0  | .81                   | .73  | .67  | .79                             | .72  | .66  | .76  | .70  | .65  | .73  | .68  | .63  | .71  | .66  | .62  | .60 |
| 4.0  | .72                   | .63  | .56  | .70                             | .62  | .56  | .68  | .61  | .55  | .65  | .59  | .54  | .63  | .58  | .54  | .51 |
| 5.0  | .64                   | .55  | .49  | .63                             | .54  | .48  | .61  | .53  | .48  | .58  | .52  | .47  | .57  | .51  | .46  | .44 |
| 6.0  | .57                   | .49  | .42  | .56                             | .48  | .42  | .55  | .47  | .42  | .53  | .46  | .41  | .51  | .45  | .41  | .39 |
| 7.0  | .52                   | .43  | .37  | .51                             | .43  | .37  | .50  | .42  | .37  | .48  | .41  | .36  | .47  | .41  | .36  | .34 |
| 8.0  | .47                   | .39  | .33  | .47                             | .39  | .33  | .45  | .38  | .33  | .44  | .37  | .33  | .43  | .37  | .32  | .30 |
| 9.0  | .43                   | .35  | .30  | .43                             | .35  | .30  | .42  | .34  | .29  | .41  | .34  | .29  | .39  | .33  | .29  | .27 |
| 10.0 | .40                   | .32  | .27  | .40                             | .32  | .27  | .38  | .32  | .27  | .37  | .31  | .27  | .37  | .31  | .26  | .25 |



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2016-06-14

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.470m [K=1.0000]  
 Remarks:

Checker:

Assessor:

### WEC AND CCEC

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                              |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                              |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .284                  | .162 | .051 | .277 | .158 | .050 | .263                             | .151 | .048 | .251 | .145 | .046 | .239 | .139 | .045 |   |  |
| 2.0  | .276                  | .151 | .046 | .269 | .148 | .046 | .258                             | .143 | .044 | .246 | .138 | .043 | .236 | .134 | .042 |   |  |
| 3.0  | .259                  | .138 | .041 | .254 | .136 | .041 | .243                             | .132 | .040 | .233 | .128 | .039 | .224 | .124 | .038 |   |  |
| 4.0  | .242                  | .126 | .037 | .237 | .124 | .037 | .227                             | .121 | .036 | .219 | .117 | .035 | .211 | .114 | .035 |   |  |
| 5.0  | .225                  | .115 | .033 | .221 | .113 | .033 | .212                             | .111 | .033 | .204 | .108 | .032 | .197 | .105 | .032 |   |  |
| 6.0  | .210                  | .105 | .030 | .206 | .104 | .030 | .198                             | .102 | .030 | .191 | .099 | .029 | .185 | .097 | .029 |   |  |
| 7.0  | .196                  | .097 | .027 | .192 | .096 | .027 | .186                             | .094 | .027 | .179 | .092 | .027 | .173 | .090 | .026 |   |  |
| 8.0  | .183                  | .090 | .025 | .180 | .089 | .025 | .174                             | .087 | .025 | .169 | .085 | .025 | .163 | .084 | .024 |   |  |
| 9.0  | .172                  | .083 | .023 | .169 | .083 | .023 | .164                             | .081 | .023 | .159 | .080 | .023 | .154 | .078 | .023 |   |  |
| 10.0 | .162                  | .078 | .022 | .160 | .077 | .022 | .155                             | .076 | .021 | .150 | .075 | .021 | .146 | .073 | .021 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .197                  | .197 | .197 | .168 | .168 | .168 | .115                                       | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 |   |
| 1.0  | .185                  | .163 | .143 | .158 | .139 | .123 | .108                                       | .096 | .085 | .062 | .056 | .049 | .020 | .018 | .016 |   |
| 2.0  | .176                  | .138 | .106 | .151 | .119 | .092 | .103                                       | .082 | .064 | .060 | .048 | .038 | .019 | .015 | .012 |   |
| 3.0  | .169                  | .120 | .082 | .145 | .104 | .071 | .099                                       | .072 | .050 | .057 | .042 | .029 | .018 | .014 | .010 |   |
| 4.0  | .161                  | .107 | .066 | .138 | .093 | .057 | .095                                       | .064 | .040 | .055 | .038 | .024 | .018 | .012 | .008 |   |
| 5.0  | .154                  | .097 | .054 | .132 | .084 | .047 | .091                                       | .058 | .033 | .053 | .034 | .020 | .017 | .011 | .007 |   |
| 6.0  | .147                  | .088 | .046 | .127 | .076 | .040 | .087                                       | .054 | .028 | .051 | .031 | .017 | .016 | .010 | .006 |   |
| 7.0  | .141                  | .081 | .040 | .121 | .071 | .035 | .084                                       | .049 | .025 | .049 | .029 | .015 | .016 | .010 | .005 |   |
| 8.0  | .134                  | .076 | .035 | .116 | .066 | .031 | .080                                       | .046 | .022 | .047 | .027 | .013 | .015 | .009 | .004 |   |
| 9.0  | .128                  | .071 | .032 | .111 | .061 | .028 | .077                                       | .043 | .020 | .045 | .025 | .012 | .014 | .008 | .004 |   |
| 10.0 | .123                  | .066 | .029 | .106 | .058 | .025 | .073                                       | .041 | .018 | .043 | .024 | .011 | .014 | .008 | .004 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2016-06-14

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

UGR(Unified Glare Rating) Table

|  |                  |      |      |      |      |                |      |      |      |      |
|--|------------------|------|------|------|------|----------------|------|------|------|------|
| 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                                      | 32.5             | 33.9 | 32.7 | 34.2 | 34.4 | 32.2           | 33.7 | 32.5 | 33.9 | 34.1 |
| 3H   | 33.7             | 35.0 | 34.0 | 35.3 | 35.5 | 33.3           | 34.6 | 33.6 | 34.9 | 35.1 |
| 4H   | 34.0             | 35.3 | 34.3 | 35.5 | 35.8 | 33.5           | 34.8 | 33.8 | 35.1 | 35.3 |
| 6H   | 34.1             | 35.3 | 34.4 | 35.6 | 35.8 | 33.5           | 34.7 | 33.8 | 35.0 | 35.3 |
| 8H   | 34.0             | 35.2 | 34.4 | 35.5 | 35.8 | 33.5           | 34.6 | 33.8 | 34.9 | 35.2 |
| 12H  | 34.0             | 35.1 | 34.3 | 35.4 | 35.7 | 33.4           | 34.5 | 33.8 | 34.8 | 35.2 |
| 4H 2H  | 33.0             | 34.2 | 33.3 | 34.5 | 34.8 | 32.7           | 34.0 | 33.1 | 34.3 | 34.6 |
| 3H   | 34.3             | 35.4 | 34.7 | 35.7 | 36.0 | 33.9           | 35.1 | 34.3 | 35.4 | 35.7 |
| 4H   | 34.7             | 35.7 | 35.0 | 36.0 | 36.4 | 34.2           | 35.2 | 34.6 | 35.6 | 35.9 |
| 6H   | 34.8             | 35.7 | 35.2 | 36.0 | 36.4 | 34.3           | 35.2 | 34.7 | 35.5 | 35.9 |
| 8H   | 34.7             | 35.6 | 35.2 | 36.0 | 36.4 | 34.2           | 35.1 | 34.6 | 35.4 | 35.8 |
| 12H  | 34.7             | 35.5 | 35.1 | 35.9 | 36.3 | 34.2           | 34.9 | 34.6 | 35.3 | 35.8 |
| 8H 4H  | 34.7             | 35.5 | 35.1 | 35.9 | 36.3 | 34.3           | 35.1 | 34.7 | 35.5 | 35.9 |
| 6H   | 34.9             | 35.5 | 35.3 | 36.0 | 36.4 | 34.4           | 35.1 | 34.8 | 35.5 | 35.9 |
| 8H   | 34.8             | 35.4 | 35.3 | 35.9 | 36.4 | 34.3           | 34.9 | 34.8 | 35.4 | 35.8 |
| 12H  | 34.8             | 35.3 | 35.3 | 35.8 | 36.3 | 34.3           | 34.8 | 34.8 | 35.3 | 35.8 |
| 12H 4H   | 34.7             | 35.4 | 35.1 | 35.8 | 36.3 | 34.3           | 35.0 | 34.7 | 35.4 | 35.8 |
| 6H   | 34.8             | 35.4 | 35.3 | 35.9 | 36.3 | 34.3           | 34.9 | 34.8 | 35.4 | 35.9 |
| 8H   | 34.8             | 35.3 | 35.3 | 35.8 | 36.3 | 34.3           | 34.8 | 34.8 | 35.3 | 35.8 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H   | + 0.2 / - 0.3    |      |      |      |      | + 0.3 / - 0.3  |      |      |      |      |
| 1.5H   | + 0.2 / - 0.4    |      |      |      |      | + 0.3 / - 0.5  |      |      |      |      |
| 2.0H   | + 0.3 / - 0.5    |      |      |      |      | + 0.4 / - 0.5  |      |      |      |      |

CIE Pub.117 Corrected 32683 lm Total Lamp Luminous Flux.(8log(F/F0) = 12.1)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2016-06-14

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

### UTILIZATION FACTORS TABLE

| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 58   | 46  | 39        | 57  | 46  | 39  | 56  | 46            | 39  | 33     |
| 0.80                             | 68   | 57  | 49        | 67  | 56  | 49  | 65  | 55            | 49  | 42     |
| 1.00                             | 77   | 66  | 59        | 76  | 65  | 59  | 73  | 67            | 58  | 51     |
| 1.25                             | 84   | 74  | 67        | 83  | 73  | 67  | 80  | 72            | 66  | 59     |
| 1.50                             | 89   | 80  | 73        | 88  | 79  | 72  | 84  | 77            | 71  | 64     |
| 2.00                             | 96   | 88  | 82        | 94  | 87  | 81  | 91  | 84            | 79  | 72     |
| 2.50                             | 100  | 93  | 87        | 98  | 91  | 86  | 94  | 88            | 84  | 76     |
| 3.00                             | 103  | 97  | 92        | 101 | 95  | 90  | 97  | 92            | 88  | 80     |
| 4.00                             | 107  | 102 | 97        | 105 | 100 | 96  | 100 | 97            | 93  | 84     |
| 5.00                             | 109  | 105 | 101       | 107 | 103 | 100 | 102 | 99            | 96  | 87     |
| ROOM INDEX                       | UF (total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

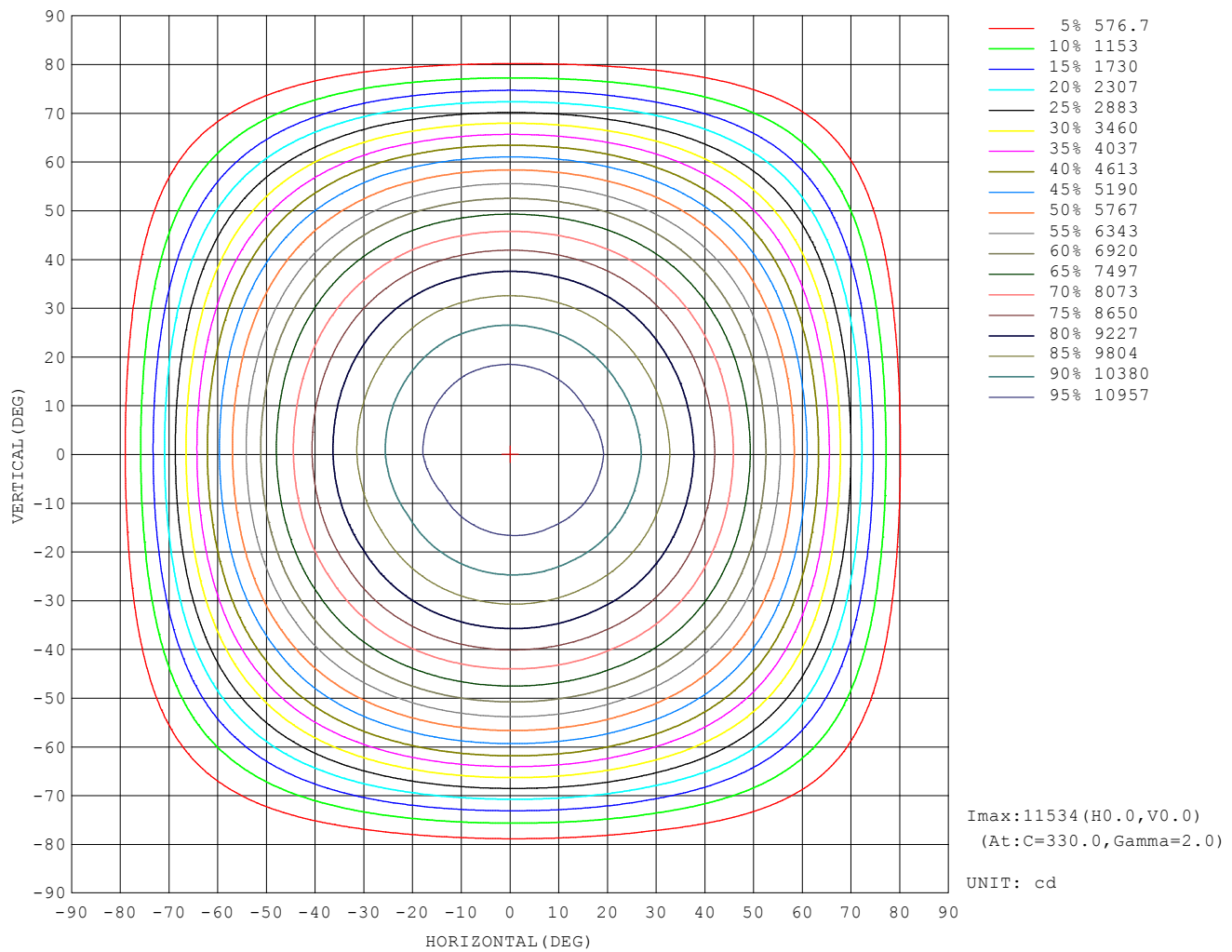
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2016-06-14

Checker:

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.470m [K=1.0000]  
 Remarks:

Assessor:

## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2016-06-14

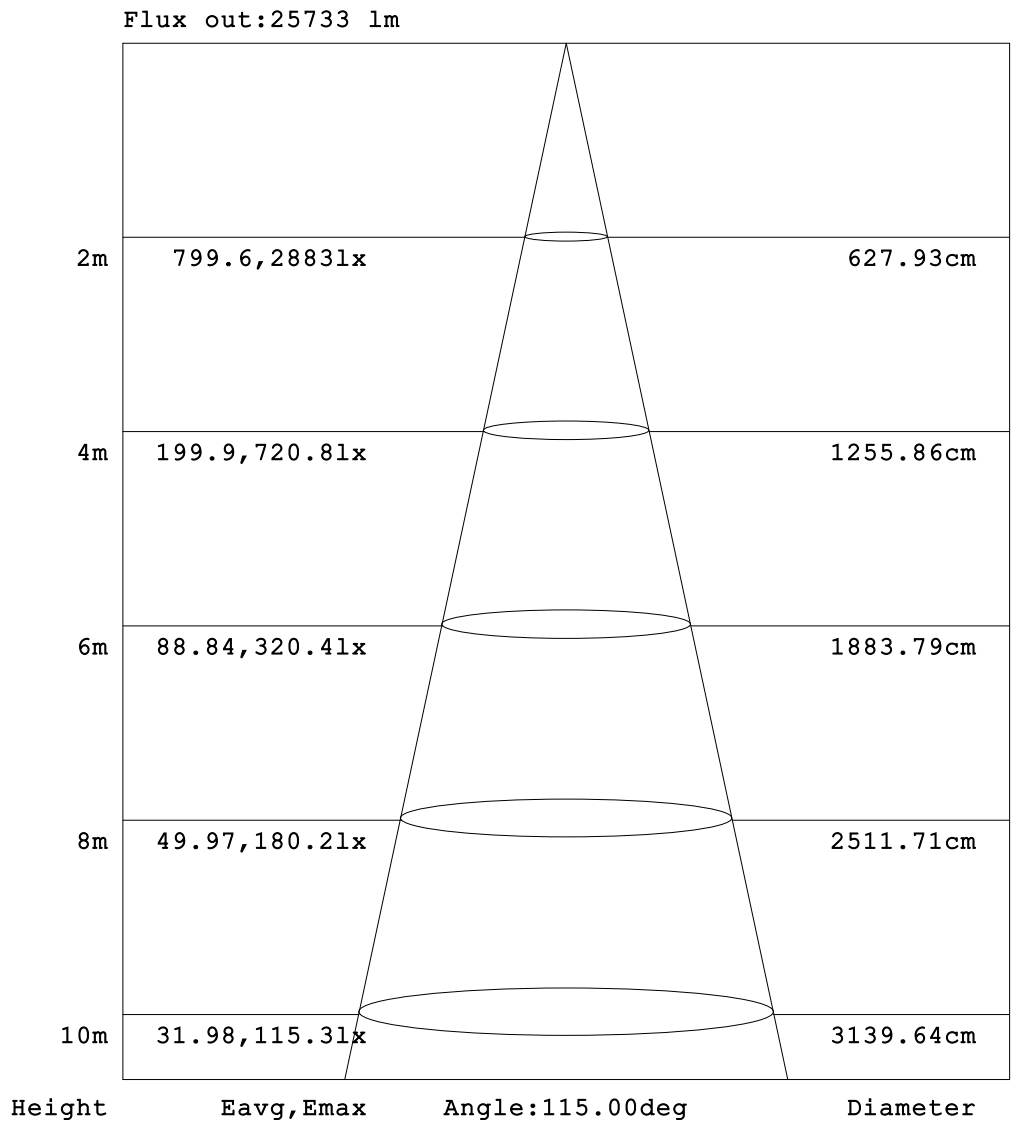
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:



## AAI Figure



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

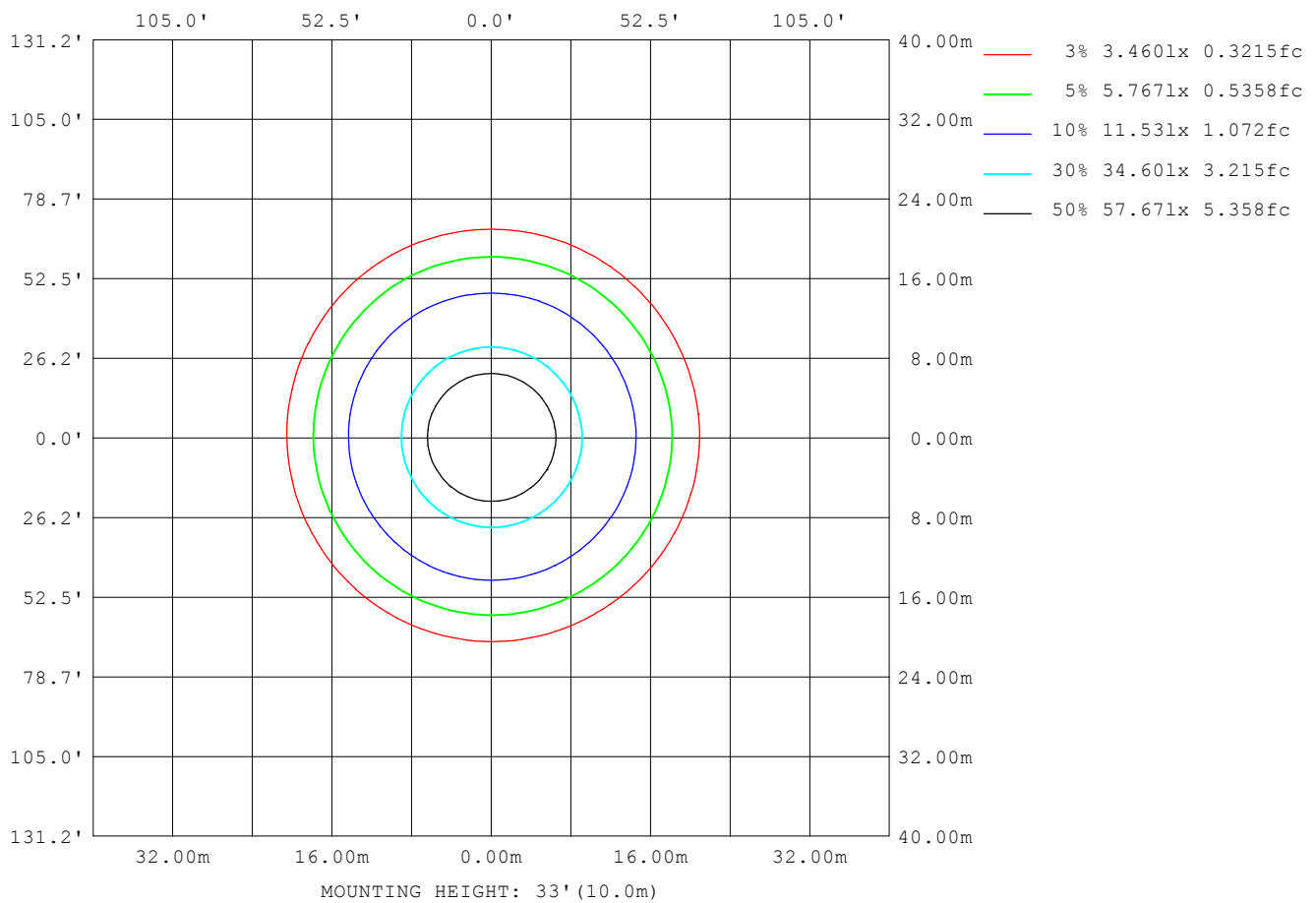
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2016-06-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

# ISOLUX DIAGRAM



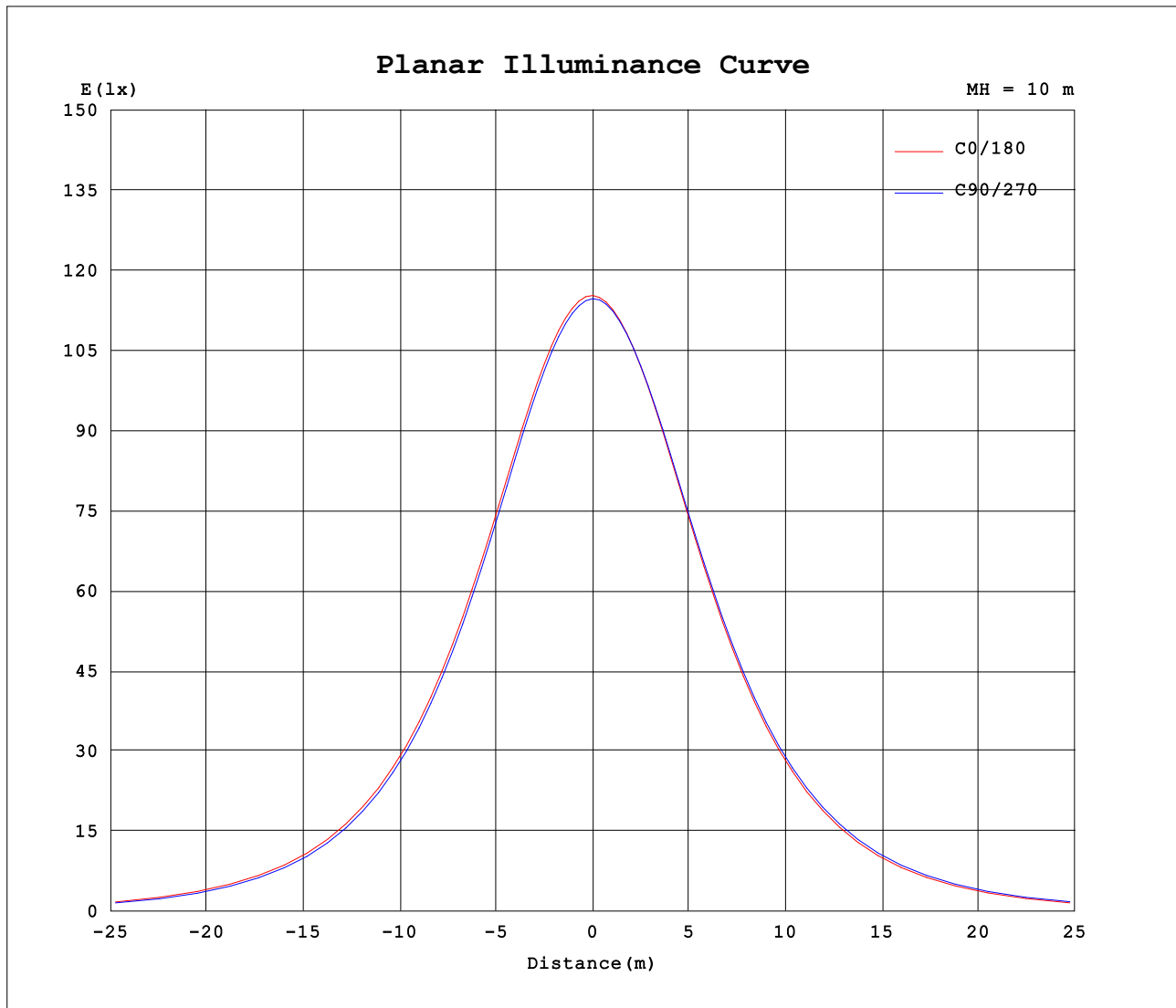
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2016-06-14

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2016-06-14

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.470m [K=1.0000]  
Remarks:

Checker:

Assessor:

# LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: ×10cd

| C (DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                  | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 | 1148 |  |  |  |  |  |  |
| 5                  | 1146 | 1145 | 1144 | 1144 | 1144 | 1143 | 1144 | 1145 | 1146 | 1147 | 1147 | 1147 |  |  |  |  |  |  |
| 10                 | 1134 | 1131 | 1129 | 1128 | 1128 | 1127 | 1129 | 1131 | 1133 | 1134 | 1134 | 1134 |  |  |  |  |  |  |
| 15                 | 1119 | 1116 | 1112 | 1111 | 1111 | 1110 | 1112 | 1115 | 1118 | 1119 | 1120 | 1120 |  |  |  |  |  |  |
| 20                 | 1086 | 1082 | 1077 | 1076 | 1075 | 1075 | 1077 | 1081 | 1086 | 1087 | 1088 | 1088 |  |  |  |  |  |  |
| 25                 | 1058 | 1053 | 1047 | 1045 | 1045 | 1044 | 1047 | 1052 | 1058 | 1060 | 1060 | 1060 |  |  |  |  |  |  |
| 30                 | 1005 | 999  | 991  | 989  | 989  | 988  | 991  | 998  | 1006 | 1007 | 1008 | 1008 |  |  |  |  |  |  |
| 35                 | 963  | 956  | 947  | 945  | 944  | 944  | 947  | 955  | 964  | 965  | 966  | 966  |  |  |  |  |  |  |
| 40                 | 889  | 881  | 870  | 868  | 867  | 866  | 870  | 879  | 889  | 892  | 893  | 893  |  |  |  |  |  |  |
| 45                 | 832  | 823  | 811  | 809  | 807  | 807  | 811  | 821  | 832  | 835  | 837  | 837  |  |  |  |  |  |  |
| 50                 | 735  | 724  | 711  | 708  | 706  | 706  | 710  | 722  | 735  | 738  | 739  | 739  |  |  |  |  |  |  |
| 55                 | 661  | 650  | 635  | 632  | 630  | 630  | 635  | 647  | 661  | 664  | 666  | 666  |  |  |  |  |  |  |
| 60                 | 539  | 525  | 509  | 506  | 504  | 503  | 509  | 522  | 539  | 542  | 544  | 544  |  |  |  |  |  |  |
| 65                 | 442  | 427  | 410  | 406  | 404  | 402  | 408  | 425  | 444  | 447  | 447  | 447  |  |  |  |  |  |  |
| 70                 | 287  | 270  | 255  | 250  | 249  | 246  | 252  | 269  | 287  | 292  | 291  | 293  |  |  |  |  |  |  |
| 75                 | 185  | 171  | 156  | 152  | 154  | 149  | 154  | 168  | 185  | 188  | 189  | 191  |  |  |  |  |  |  |
| 80                 | 59.9 | 49.4 | 38.8 | 41.6 | 35.9 | 39.9 | 42.2 | 45.2 | 57.4 | 60.0 | 61.6 | 62.7 |  |  |  |  |  |  |
| 85                 | 7.62 | 4.09 | 1.73 | 1.46 | 1.42 | 1.33 | 1.41 | 2.87 | 6.32 | 7.54 | 8.15 | 15.4 |  |  |  |  |  |  |
| 90                 | 0.88 | 0.92 | 0.97 | 0.98 | 0.98 | 0.99 | 0.93 | 0.89 | 0.85 | 0.84 | 0.84 | 0.83 |  |  |  |  |  |  |
| 95                 | 1.16 | 1.21 | 1.26 | 1.28 | 1.28 | 1.28 | 1.22 | 1.17 | 1.12 | 1.11 | 1.10 | 1.10 |  |  |  |  |  |  |
| 100                | 1.67 | 1.73 | 1.80 | 1.82 | 1.82 | 1.83 | 1.75 | 1.69 | 1.62 | 1.61 | 1.60 | 1.59 |  |  |  |  |  |  |
| 105                | 2.07 | 2.13 | 2.21 | 2.23 | 2.23 | 2.24 | 2.15 | 2.08 | 2.01 | 2.00 | 1.98 | 1.98 |  |  |  |  |  |  |
| 110                | 2.70 | 2.79 | 2.86 | 2.89 | 2.89 | 2.90 | 2.80 | 2.72 | 2.65 | 2.63 | 2.62 | 2.61 |  |  |  |  |  |  |
| 115                | 3.15 | 3.23 | 3.30 | 3.34 | 3.33 | 3.35 | 3.24 | 3.16 | 3.09 | 3.06 | 3.06 | 3.05 |  |  |  |  |  |  |
| 120                | 3.82 | 3.91 | 3.98 | 4.02 | 4.02 | 4.04 | 3.92 | 3.83 | 3.76 | 3.73 | 3.73 | 3.72 |  |  |  |  |  |  |
| 125                | 4.28 | 4.37 | 4.45 | 4.49 | 4.49 | 4.51 | 4.40 | 4.30 | 4.22 | 4.19 | 4.20 | 4.18 |  |  |  |  |  |  |
| 130                | 5.00 | 5.09 | 5.17 | 5.21 | 5.20 | 5.22 | 5.11 | 5.02 | 4.94 | 4.91 | 4.91 | 4.90 |  |  |  |  |  |  |
| 135                | 5.47 | 5.56 | 5.64 | 5.67 | 5.67 | 5.69 | 5.59 | 5.49 | 5.42 | 5.38 | 5.39 | 5.37 |  |  |  |  |  |  |
| 140                | 6.14 | 6.22 | 6.29 | 6.32 | 6.32 | 6.34 | 6.24 | 6.16 | 6.09 | 6.06 | 6.06 | 6.05 |  |  |  |  |  |  |
| 145                | 6.55 | 6.62 | 6.68 | 6.71 | 6.71 | 6.72 | 6.64 | 6.57 | 6.50 | 6.48 | 6.48 | 6.47 |  |  |  |  |  |  |
| 150                | 7.10 | 7.16 | 7.21 | 7.24 | 7.24 | 7.26 | 7.18 | 7.12 | 7.06 | 7.04 | 7.04 | 7.03 |  |  |  |  |  |  |
| 155                | 7.43 | 7.48 | 7.53 | 7.56 | 7.56 | 7.57 | 7.51 | 7.45 | 7.40 | 7.38 | 7.38 | 7.38 |  |  |  |  |  |  |
| 160                | 7.87 | 7.92 | 7.95 | 7.98 | 7.97 | 7.99 | 7.94 | 7.89 | 7.86 | 7.84 | 7.85 | 7.84 |  |  |  |  |  |  |
| 165                | 8.12 | 8.17 | 8.20 | 8.22 | 8.22 | 8.24 | 8.20 | 8.15 | 8.13 | 8.11 | 8.12 | 8.11 |  |  |  |  |  |  |
| 170                | 8.45 | 8.49 | 8.51 | 8.53 | 8.52 | 8.54 | 8.51 | 8.48 | 8.47 | 8.45 | 8.46 | 8.45 |  |  |  |  |  |  |
| 175                | 8.60 | 8.63 | 8.64 | 8.66 | 8.65 | 8.66 | 8.65 | 8.62 | 8.62 | 8.60 | 8.62 | 8.60 |  |  |  |  |  |  |
| 180                | 8.70 | 8.72 | 8.71 | 8.73 | 8.72 | 8.73 | 8.71 | 8.70 | 8.72 | 8.71 | 8.73 | 8.71 |  |  |  |  |  |  |

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C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2016-06-14

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.470m [K=1.0000]  
Remarks:

Checker:

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