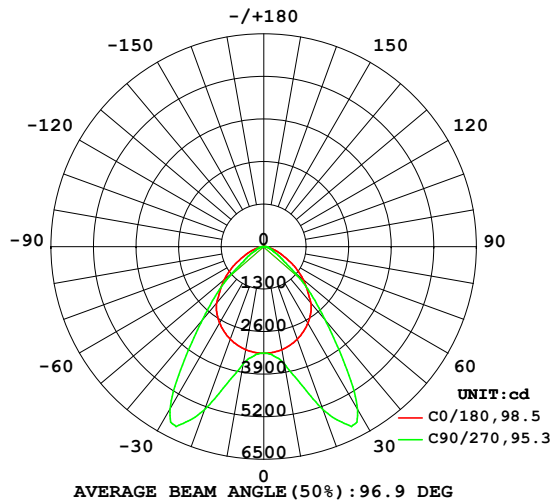


## LUMINAIRE PHOTOMETRIC TEST REPORT

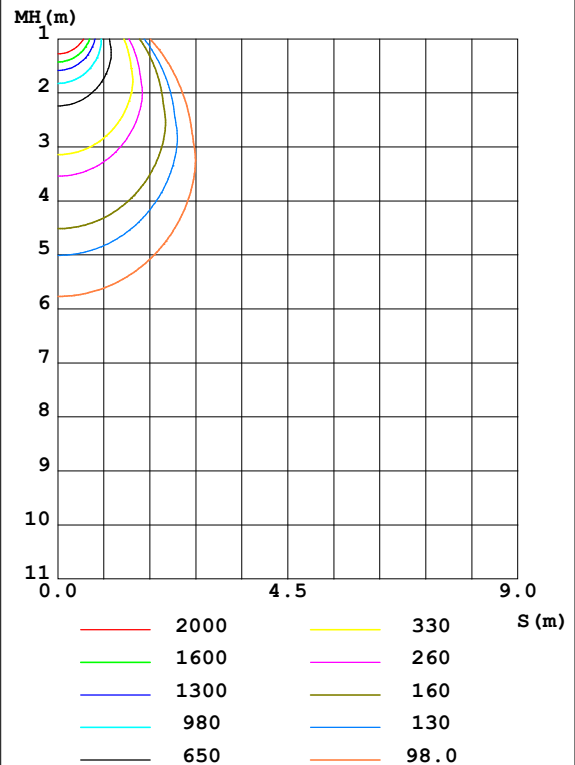
|                                                                   |                         |                  |
|-------------------------------------------------------------------|-------------------------|------------------|
| Test:U:230.1V I:0.4127A P:91.35W PF:0.9617 Lamp Flux:10632.2x1 lm |                         |                  |
| NAME: LHB03-090                                                   | TYPE:90W                | WEIGHT:          |
| SPEC.:5000K Ra80 L00304                                           | DIM.: 0.336*0.307*0.061 | SERIAL No.:      |
| MFR.:                                                             | SUR.:0.28*0.27          | Shielding Angle: |

| DATA OF LAMP     |            | PHOTOMETRIC DATA Eff: 116.39 lm/W |        |                   |          |
|------------------|------------|-----------------------------------|--------|-------------------|----------|
| MODEL            | NICHIA3030 | I <sub>max</sub> (cd)             | 6114   | S/MH(C0/180)      | 1.24     |
| NOMINAL POWER(W) | 90         | LOR(%)                            | 100.0  | S/MH(C90/270)     | 1.37     |
| RATED VOLTAGE(V) | 230        | TOTAL FLUX(lm)                    | 10632  | η UP,DN(C0-180)   | 0.0,50.0 |
| NOMINAL FLUX(lm) | 10632.2    | CIE CLASS                         | DIRECT | η UP,DN(C180-360) | 0.0,50.0 |
| LAMPS INSIDE     | 1          | η up(%)                           | 0.0    | CIBSE SHR NOM     | 0.75     |
| TEST VOLTAGE(V)  | 230        | η down(%)                         | 100.0  | CIBSE SHR MAX     | 0.85     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-08

Checker: LI

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.500m [K=1.0000]  
Remarks:

Assessor:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 5        | 3245                  | 3284  | 3343  | 3285  | 3245  | 3285  | 3343  | 3284  | 0- 5     | 78.20       | 78.20        | 0.74,0.74 |
| 10       | 3198                  | 3396  | 3638  | 3398  | 3198  | 3398  | 3638  | 3396  | 5- 10    | 239.3       | 317.5        | 2.99,2.99 |
| 15       | 3118                  | 3641  | 4322  | 3642  | 3118  | 3642  | 4322  | 3641  | 10- 15   | 420.2       | 737.6        | 6.94,6.94 |
| 20       | 3008                  | 4024  | 5302  | 4042  | 3008  | 4042  | 5302  | 4024  | 15- 20   | 640.5       | 1378         | 13,13     |
| 25       | 2868                  | 4539  | 5992  | 4575  | 2868  | 4575  | 5992  | 4539  | 20- 25   | 902.7       | 2281         | 21.5,21.5 |
| 30       | 2701                  | 4993  | 5746  | 5044  | 2701  | 5044  | 5746  | 4993  | 25- 30   | 1163        | 3443         | 32.4,32.4 |
| 35       | 2503                  | 5303  | 4236  | 5358  | 2503  | 5358  | 4236  | 5303  | 30- 35   | 1315        | 4758         | 44.8,44.8 |
| 40       | 2246                  | 5121  | 2907  | 5151  | 2246  | 5151  | 2907  | 5121  | 35- 40   | 1310        | 6068         | 57.1,57.1 |
| 45       | 1884                  | 4319  | 2035  | 4282  | 1884  | 4282  | 2035  | 4319  | 40- 45   | 1198        | 7266         | 68.3,68.3 |
| 50       | 1582                  | 2984  | 1266  | 2896  | 1582  | 2896  | 1266  | 2984  | 45- 50   | 1012        | 8278         | 77.9,77.9 |
| 55       | 1264                  | 1769  | 711.2 | 1712  | 1264  | 1712  | 711.2 | 1769  | 50- 55   | 783.7       | 9062         | 85.2,85.2 |
| 60       | 929.1                 | 1005  | 475.3 | 978.7 | 929.1 | 978.7 | 475.3 | 1005  | 55- 60   | 574.9       | 9637         | 90.6,90.6 |
| 65       | 646.1                 | 564.9 | 302.7 | 552.7 | 646.1 | 552.7 | 302.7 | 564.9 | 60- 65   | 395.9       | 10033        | 94.4,94.4 |
| 70       | 420.6                 | 335.9 | 224.8 | 331.1 | 420.6 | 331.1 | 224.8 | 335.9 | 65- 70   | 263.1       | 10296        | 96.8,96.8 |
| 75       | 253.9                 | 215.2 | 157.7 | 212.1 | 253.9 | 212.1 | 157.7 | 215.2 | 70- 75   | 169.3       | 10465        | 98.4,98.4 |
| 80       | 126.0                 | 126.5 | 106.8 | 125.0 | 126.0 | 125.0 | 106.8 | 126.5 | 75- 80   | 99.53       | 10565        | 99.4,99.4 |
| 85       | 24.48                 | 67.04 | 55.83 | 66.93 | 24.48 | 66.93 | 55.83 | 67.04 | 80- 85   | 50.63       | 10615        | 99.8,99.8 |
| 90       | 0                     | 6.529 | 4.879 | 7.915 | 0     | 7.915 | 4.879 | 6.529 | 85- 90   | 16.77       | 10632        | 100,100   |
| 95       |                       |       |       |       |       |       |       |       | 90- 95   |             |              |           |
| 100      |                       |       |       |       |       |       |       |       | 95-100   |             |              |           |
| 105      |                       |       |       |       |       |       |       |       | 100-105  |             |              |           |
| 110      |                       |       |       |       |       |       |       |       | 105-110  |             |              |           |
| 115      |                       |       |       |       |       |       |       |       | 110-115  |             |              |           |
| 120      |                       |       |       |       |       |       |       |       | 115-120  |             |              |           |
| 125      |                       |       |       |       |       |       |       |       | 120-125  |             |              |           |
| 130      |                       |       |       |       |       |       |       |       | 125-130  |             |              |           |
| 135      |                       |       |       |       |       |       |       |       | 130-135  |             |              |           |
| 140      |                       |       |       |       |       |       |       |       | 135-140  |             |              |           |
| 145      |                       |       |       |       |       |       |       |       | 140-145  |             |              |           |
| 150      |                       |       |       |       |       |       |       |       | 145-150  |             |              |           |
| 155      |                       |       |       |       |       |       |       |       | 150-155  |             |              |           |
| 160      |                       |       |       |       |       |       |       |       | 155-160  |             |              |           |
| 165      |                       |       |       |       |       |       |       |       | 160-165  |             |              |           |
| 170      |                       |       |       |       |       |       |       |       | 165-170  |             |              |           |
| 175      |                       |       |       |       |       |       |       |       | 170-175  |             |              |           |
| 180      |                       |       |       |       |       |       |       |       | 175-180  |             |              |           |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |           |

Conical surface Flux(90deg): 7266.4 lm

%lum = 68.3%

%lamp = 68.3%

Conical surface Flux(120deg): 9637 lm

%lum = 90.6%

%lamp = 90.6%

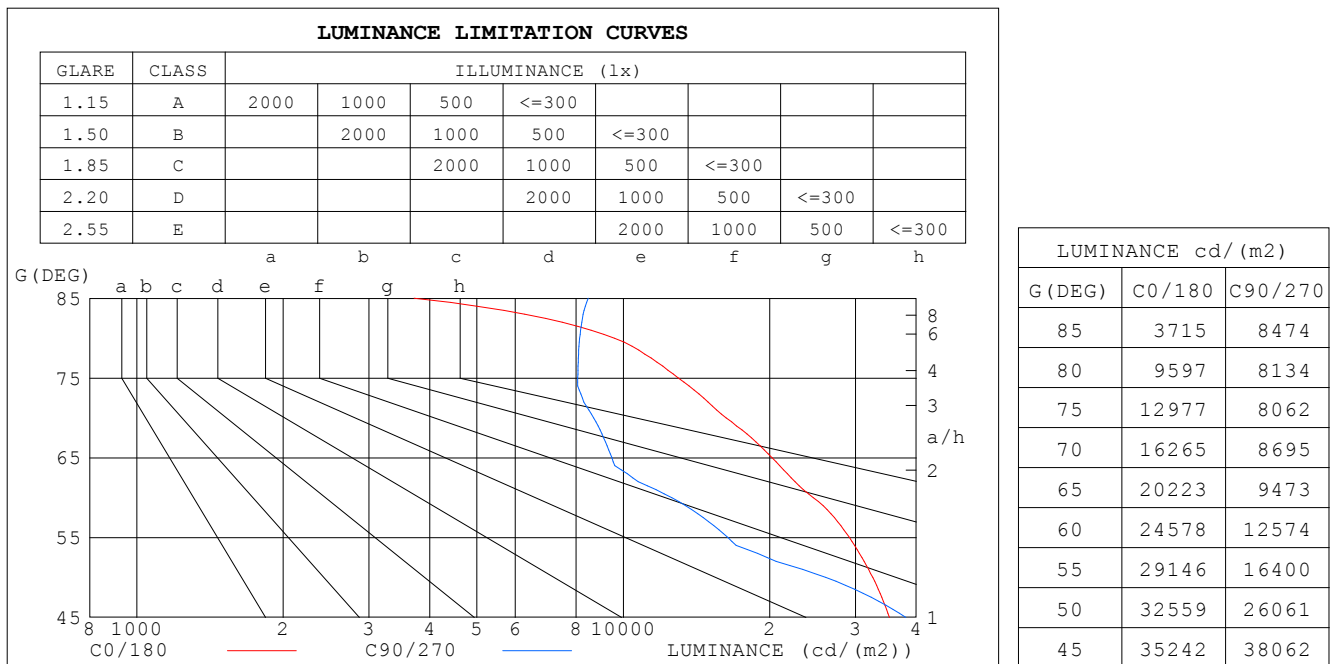
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-06-08

Checker: LI

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity:65.0%  
 Test Distance:9.500m [K=1.0000]  
 Remarks:

Assessor:

## LUMINANCE LIMITATION CURVES



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-08

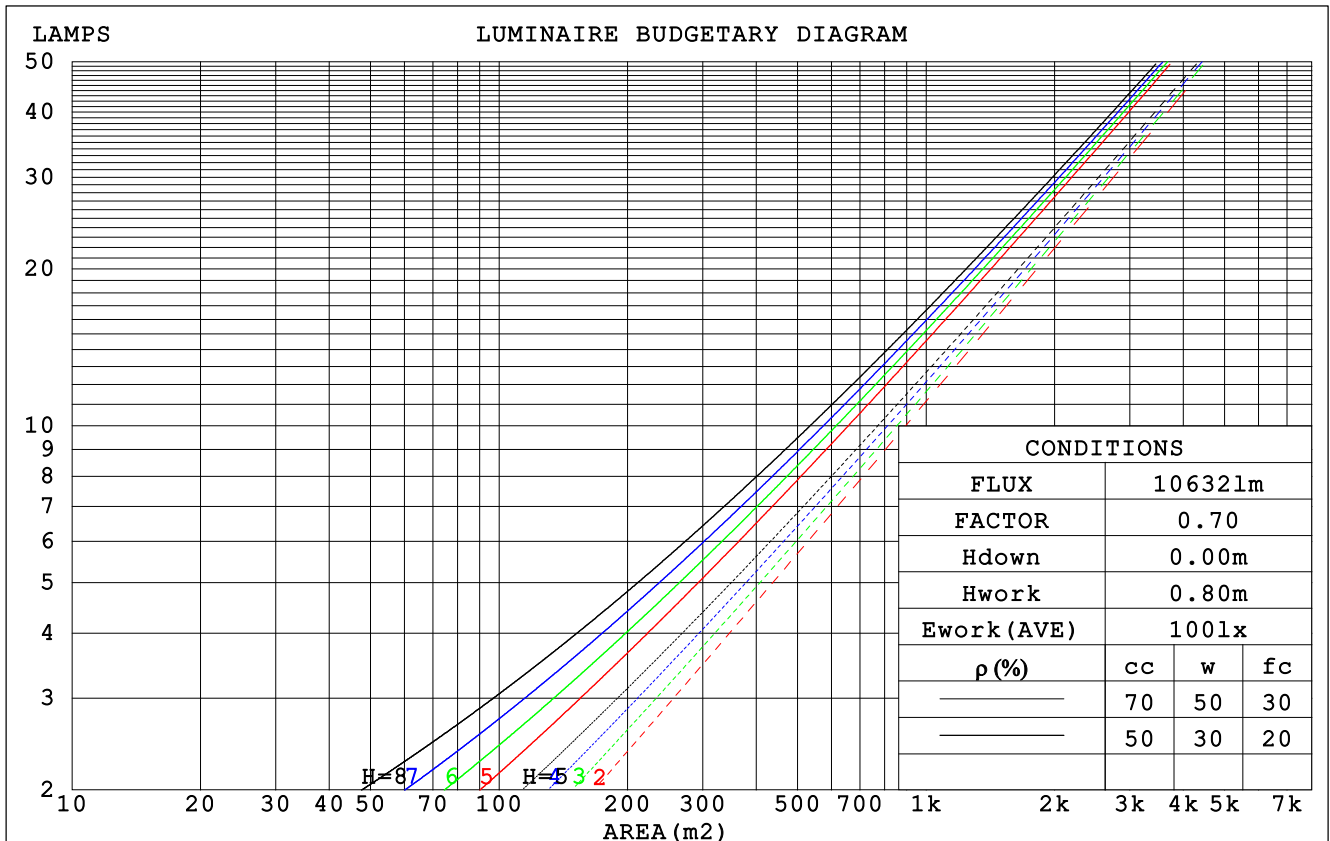
Checker: LI

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.500m [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 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0  | 1.07                  | 1.03 | .00  | 1.04                            | 1.01 | .98  | 1.00 | .98  | .95  | .96  | .94  | .92  | .93  | .91  | .90  | .88 |
| 2.0  | .95                   | .89  | .84  | .93                             | .88  | .83  | .90  | .85  | .81  | .87  | .83  | .80  | .84  | .81  | .78  | .76 |
| 3.0  | .85                   | .78  | .72  | .83                             | .77  | .71  | .80  | .75  | .70  | .78  | .73  | .69  | .75  | .71  | .68  | .66 |
| 4.0  | .76                   | .68  | .62  | .75                             | .67  | .62  | .72  | .66  | .61  | .70  | .65  | .60  | .68  | .63  | .59  | .57 |
| 5.0  | .68                   | .60  | .54  | .67                             | .60  | .54  | .65  | .58  | .53  | .63  | .57  | .53  | .62  | .56  | .52  | .50 |
| 6.0  | .62                   | .54  | .48  | .61                             | .53  | .47  | .59  | .52  | .47  | .58  | .51  | .47  | .56  | .51  | .46  | .44 |
| 7.0  | .56                   | .48  | .42  | .55                             | .48  | .42  | .54  | .47  | .42  | .53  | .46  | .42  | .51  | .46  | .41  | .39 |
| 8.0  | .51                   | .43  | .38  | .51                             | .43  | .38  | .49  | .42  | .37  | .48  | .42  | .37  | .47  | .41  | .37  | .35 |
| 9.0  | .47                   | .39  | .34  | .46                             | .39  | .34  | .45  | .38  | .34  | .44  | .38  | .34  | .43  | .38  | .33  | .32 |
| 10.0 | .43                   | .36  | .31  | .43                             | .36  | .31  | .42  | .35  | .30  | .41  | .35  | .30  | .40  | .34  | .30  | .29 |



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2018-06-08

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
 Humidity: 65.0%  
 Test Distance: 9.500m [K=1.0000]  
 Remarks:

Checker: LI

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  | .256                  | .146 | .046 | .249 | .142 | .045 | .236                             | .135 | .043 | .224 | .129 | .041 | .213 | .123 | .040 |   |
| 2.0  | .248                  | .136 | .042 | .242 | .133 | .041 | .231                             | .128 | .040 | .220 | .124 | .039 | .211 | .119 | .038 |   |
| 3.0  | .235                  | .125 | .038 | .230 | .123 | .037 | .220                             | .119 | .036 | .211 | .116 | .035 | .202 | .112 | .035 |   |
| 4.0  | .222                  | .115 | .034 | .217 | .114 | .034 | .208                             | .110 | .033 | .200 | .107 | .032 | .193 | .105 | .032 |   |
| 5.0  | .209                  | .106 | .031 | .205 | .105 | .031 | .197                             | .102 | .030 | .189 | .100 | .030 | .183 | .098 | .029 |   |
| 6.0  | .196                  | .098 | .028 | .193 | .097 | .028 | .186                             | .095 | .028 | .179 | .093 | .027 | .173 | .091 | .027 |   |
| 7.0  | .185                  | .091 | .026 | .182 | .091 | .026 | .175                             | .089 | .026 | .170 | .087 | .025 | .164 | .085 | .025 |   |
| 8.0  | .175                  | .085 | .024 | .172 | .084 | .024 | .166                             | .083 | .024 | .161 | .081 | .023 | .156 | .080 | .023 |   |
| 9.0  | .165                  | .080 | .022 | .162 | .079 | .022 | .157                             | .078 | .022 | .153 | .076 | .022 | .148 | .075 | .022 |   |
| 10.0 | .156                  | .075 | .021 | .154 | .074 | .021 | .149                             | .073 | .021 | .145 | .072 | .020 | .141 | .071 | .020 |   |

| 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  | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |  |
| 1.0  | .177                  | .157 | .139 | .151 | .134 | .119 | .103                                       | .092 | .083 | .059 | .054 | .048 | .019 | .017 | .016 |   |  |
| 2.0  | .166                  | .132 | .103 | .143 | .114 | .089 | .098                                       | .079 | .062 | .056 | .046 | .037 | .018 | .015 | .012 |   |  |
| 3.0  | .158                  | .114 | .079 | .135 | .098 | .069 | .093                                       | .068 | .048 | .054 | .040 | .028 | .017 | .013 | .009 |   |  |
| 4.0  | .150                  | .100 | .062 | .129 | .087 | .054 | .089                                       | .060 | .038 | .051 | .035 | .023 | .016 | .012 | .007 |   |  |
| 5.0  | .143                  | .090 | .050 | .123 | .078 | .044 | .085                                       | .054 | .031 | .049 | .032 | .018 | .016 | .010 | .006 |   |  |
| 6.0  | .136                  | .081 | .042 | .117 | .070 | .036 | .081                                       | .049 | .026 | .047 | .029 | .015 | .015 | .009 | .005 |   |  |
| 7.0  | .130                  | .074 | .035 | .112 | .064 | .031 | .077                                       | .045 | .022 | .045 | .027 | .013 | .015 | .009 | .004 |   |  |
| 8.0  | .124                  | .068 | .030 | .107 | .059 | .026 | .074                                       | .042 | .019 | .043 | .025 | .011 | .014 | .008 | .004 |   |  |
| 9.0  | .119                  | .064 | .026 | .102 | .055 | .023 | .071                                       | .039 | .016 | .041 | .023 | .010 | .013 | .008 | .003 |   |  |
| 10.0 | .114                  | .059 | .023 | .098 | .052 | .020 | .068                                       | .036 | .014 | .040 | .021 | .009 | .013 | .007 | .003 |   |  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-08

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.500m [K=1.0000]  
Remarks:

Checker: LI

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                                      | 26.2             | 27.6 | 26.5 | 27.8 | 28.0 | 23.6           | 25.0 | 23.9 | 25.2 | 25.4 |
| 3H                                                 | 26.7             | 27.9 | 27.0 | 28.2 | 28.4 | 23.6           | 24.9 | 23.9 | 25.1 | 25.3 |
| 4H                                                 | 26.7             | 27.9 | 27.0 | 28.2 | 28.4 | 23.6           | 24.8 | 23.9 | 25.1 | 25.3 |
| 6H                                                 | 26.7             | 27.8 | 27.0 | 28.1 | 28.4 | 23.7           | 24.8 | 24.0 | 25.0 | 25.3 |
| 8H                                                 | 26.7             | 27.8 | 27.0 | 28.0 | 28.3 | 23.7           | 24.7 | 24.0 | 25.0 | 25.3 |
| 12H                                                | 26.6             | 27.7 | 27.0 | 28.0 | 28.3 | 23.7           | 24.7 | 24.0 | 25.0 | 25.3 |
| 4H 2H                                              | 26.3             | 27.5 | 26.6 | 27.7 | 28.0 | 24.1           | 25.3 | 24.4 | 25.6 | 25.8 |
| 3H                                                 | 27.0             | 28.1 | 27.4 | 28.4 | 28.7 | 24.2           | 25.2 | 24.6 | 25.5 | 25.8 |
| 4H                                                 | 27.2             | 28.2 | 27.6 | 28.5 | 28.8 | 24.3           | 25.2 | 24.6 | 25.5 | 25.8 |
| 6H                                                 | 27.3             | 28.1 | 27.7 | 28.5 | 28.8 | 24.3           | 25.2 | 24.7 | 25.5 | 25.9 |
| 8H                                                 | 27.3             | 28.0 | 27.7 | 28.4 | 28.8 | 24.4           | 25.1 | 24.8 | 25.5 | 25.9 |
| 12H                                                | 27.2             | 27.9 | 27.7 | 28.3 | 28.7 | 24.4           | 25.1 | 24.8 | 25.5 | 25.9 |
| 8H 4H                                              | 27.2             | 28.0 | 27.6 | 28.3 | 28.7 | 24.4           | 25.2 | 24.8 | 25.5 | 25.9 |
| 6H                                                 | 27.3             | 28.0 | 27.8 | 28.4 | 28.8 | 24.5           | 25.2 | 25.0 | 25.6 | 26.0 |
| 8H                                                 | 27.4             | 27.9 | 27.8 | 28.3 | 28.8 | 24.6           | 25.2 | 25.1 | 25.6 | 26.0 |
| 12H                                                | 27.4             | 27.8 | 27.8 | 28.3 | 28.7 | 24.7           | 25.2 | 25.2 | 25.6 | 26.1 |
| 12H 4H                                             | 27.2             | 27.8 | 27.6 | 28.2 | 28.6 | 24.4           | 25.1 | 24.8 | 25.5 | 25.9 |
| 6H                                                 | 27.3             | 27.9 | 27.8 | 28.3 | 28.7 | 24.6           | 25.1 | 25.0 | 25.5 | 26.0 |
| 8H                                                 | 27.4             | 27.8 | 27.8 | 28.3 | 28.8 | 24.7           | 25.1 | 25.1 | 25.6 | 26.0 |
| Variations with the observer position at spacings: |                  |      |      |      |      |                |      |      |      |      |
| S = 1.0H                                           | + 1.0 / - 0.6    |      |      |      |      | + 1.6 / - 2.7  |      |      |      |      |
| 1.5H                                               | + 1.8 / - 2.1    |      |      |      |      | + 2.0 / - 2.0  |      |      |      |      |
| 2.0H                                               | + 1.3 / - 2.8    |      |      |      |      | + 2.1 / - 2.3  |      |      |      |      |

CIE Pub.117 Corrected 10632 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.2)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-08

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity:65.0%  
Test Distance:9.500m [K=1.0000]  
Remarks:

Checker: LI

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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 64                                                   | 54  | 48        | 64  | 54  | 48  | 63  | 53            | 47  | 42     |
| 0.80                             | 75                                                   | 65  | 58        | 74  | 64  | 58  | 72  | 63            | 58  | 52     |
| 1.00                             | 83                                                   | 74  | 67        | 82  | 73  | 67  | 80  | 74            | 67  | 60     |
| 1.25                             | 90                                                   | 81  | 75        | 88  | 80  | 75  | 86  | 79            | 74  | 68     |
| 1.50                             | 94                                                   | 86  | 80        | 93  | 85  | 80  | 90  | 84            | 79  | 72     |
| 2.00                             | 100                                                  | 93  | 88        | 98  | 92  | 87  | 95  | 90            | 86  | 79     |
| 2.50                             | 103                                                  | 97  | 92        | 101 | 96  | 91  | 98  | 93            | 89  | 82     |
| 3.00                             | 106                                                  | 100 | 96        | 104 | 99  | 95  | 100 | 96            | 93  | 85     |
| 4.00                             | 109                                                  | 104 | 101       | 107 | 103 | 99  | 103 | 99            | 97  | 88     |
| 5.00                             | 111                                                  | 107 | 104       | 109 | 105 | 102 | 104 | 101           | 99  | 90     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

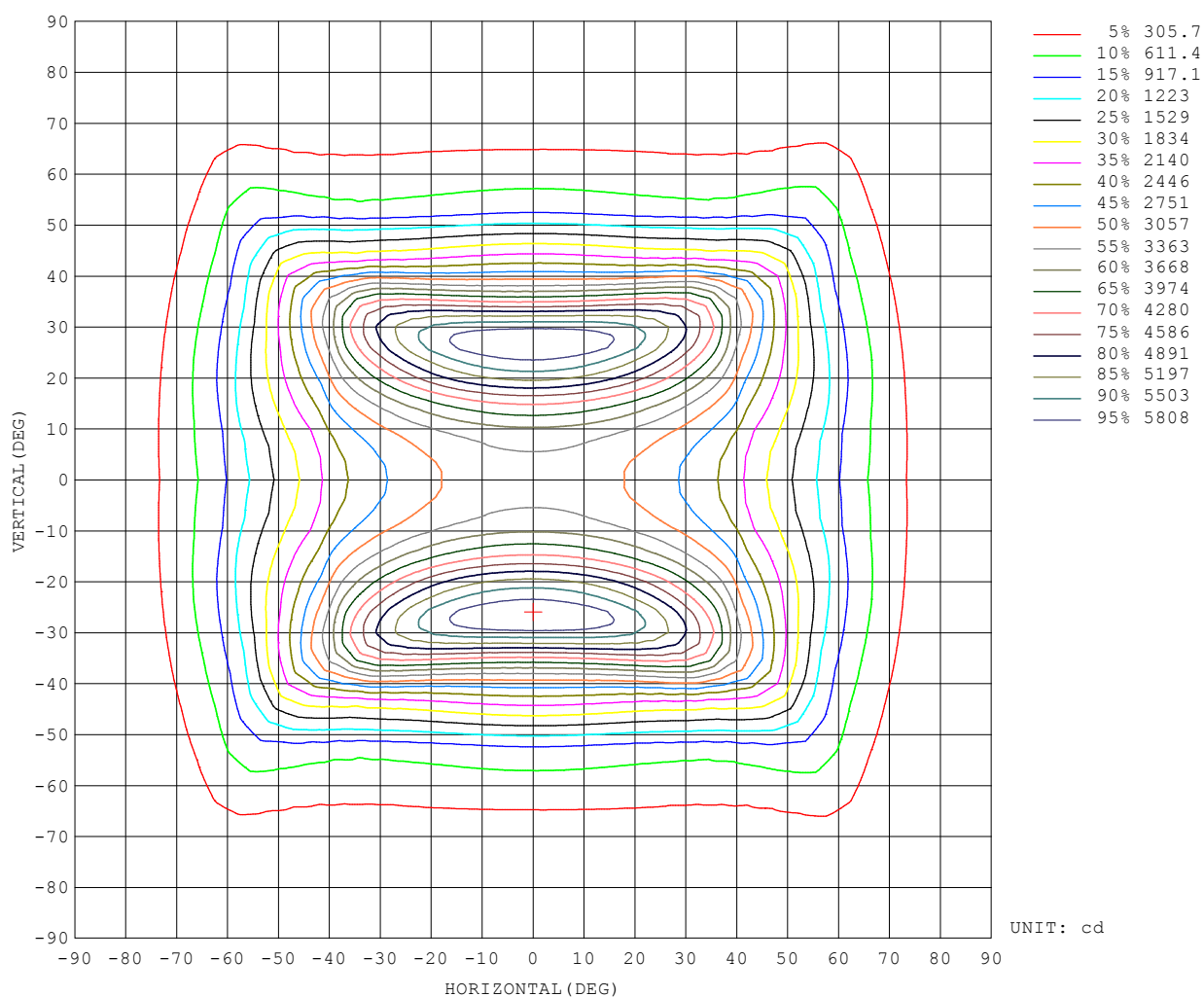
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-08

Checker: LI

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.500m [K=1.0000]  
Remarks:

Assessor:

## ISOCANDELA DIAGRAM



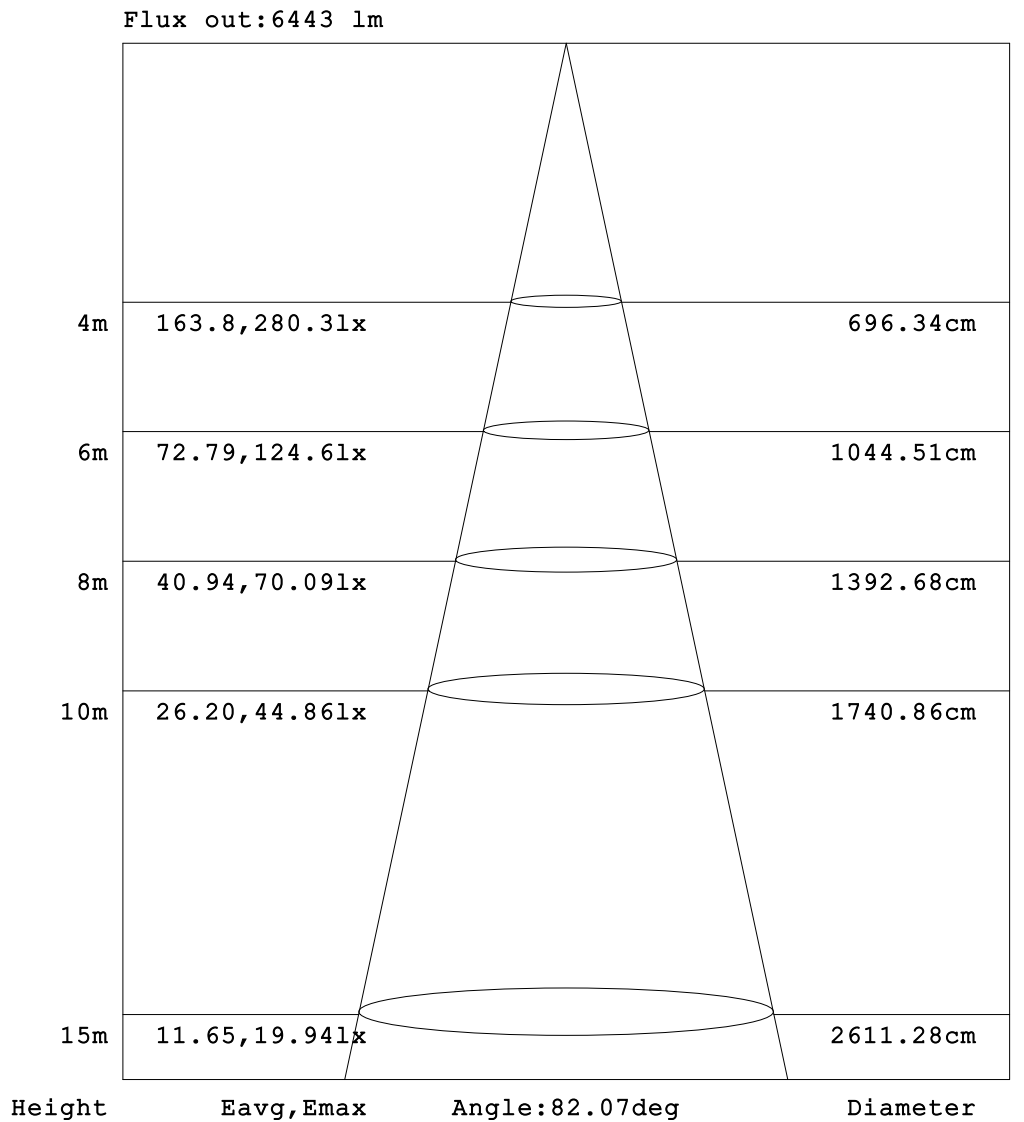
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.500m [K=1.0000]  
Remarks:

Checker: LI

Assessor:

## AAI Figure



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

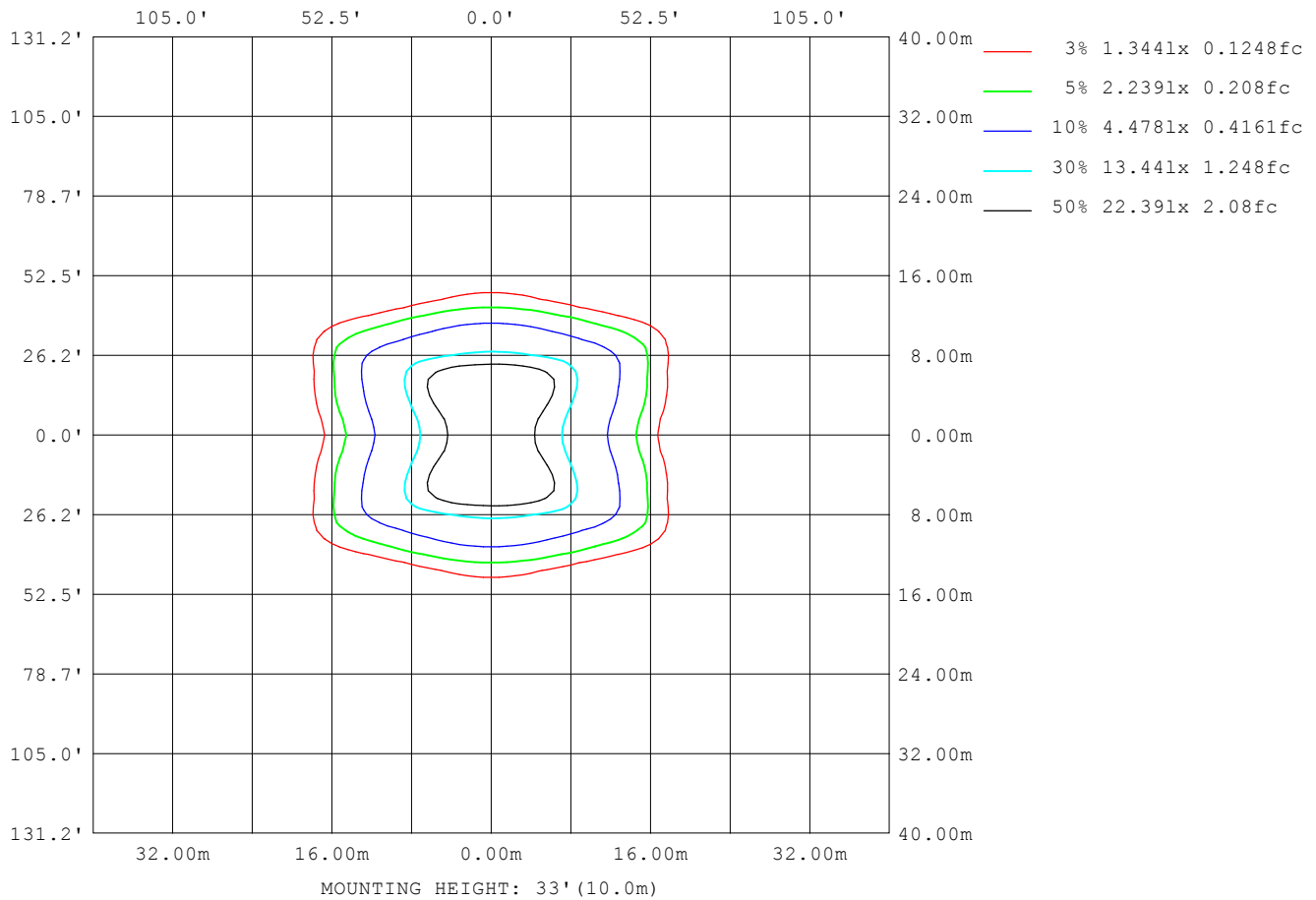
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.500m [K=1.0000]  
Remarks:

Checker: LI

Assessor:

### ISOLUX DIAGRAM



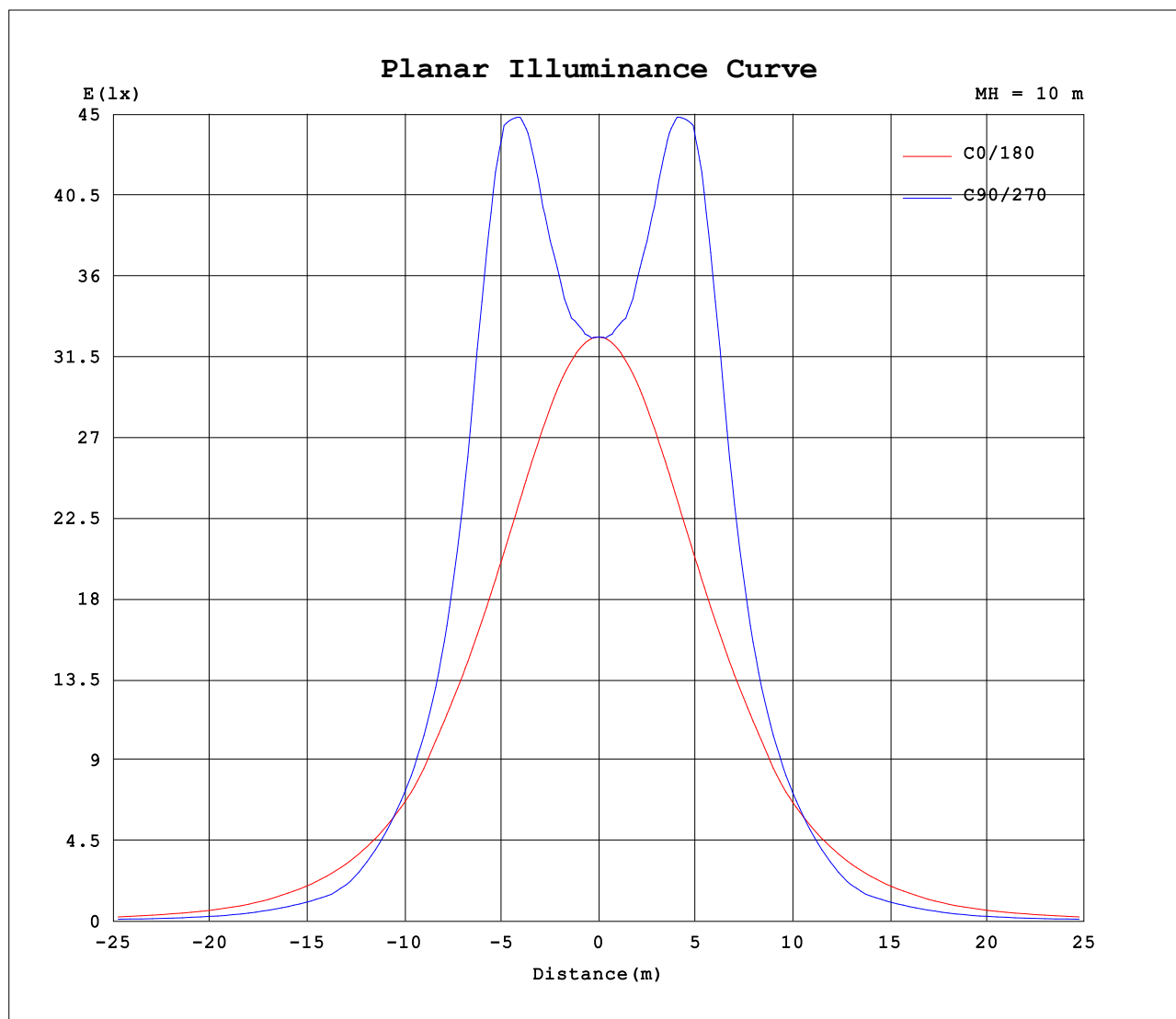
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-08

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.500m [K=1.0000]  
Remarks:

Checker: LI

Assessor:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.295  
Humidity: 65.0%  
Test Distance: 9.500m [K=1.0000]  
Remarks:

Checker: LI

Assessor:

Assessor:

Assessor:

Assessor:

Assessor: