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Nata

LumCAT: 3-1549-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2018072506
LampCAT: BRIDGELUX V9 HD
Lamp flux(lm): 1153.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 34.0000
Current(A): 0.2900
Power (W): 9.8600
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm): 0

Photometric Results

Lumens(lm): 1034.89
Efficiency(%): 89.76%
Lumens(lm)/Power(W): 107.66
Central intensity(cd): 4620.608
Maximum intensity(cd): 4620.608
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=22.0
 [C90/270]Total=22.0
Field angle(10%Imax): [C0/180]Total=47.0
 [C90/270]Total=47.0
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.36 C90_270=0.36
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.07%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.257%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/7/25
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

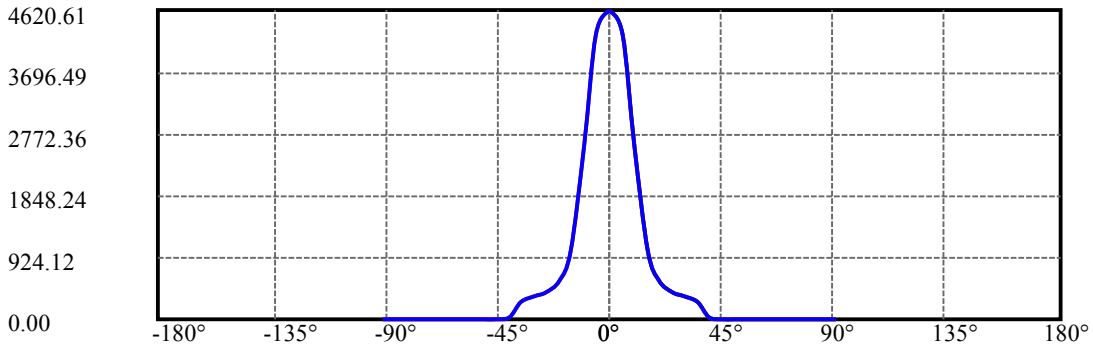
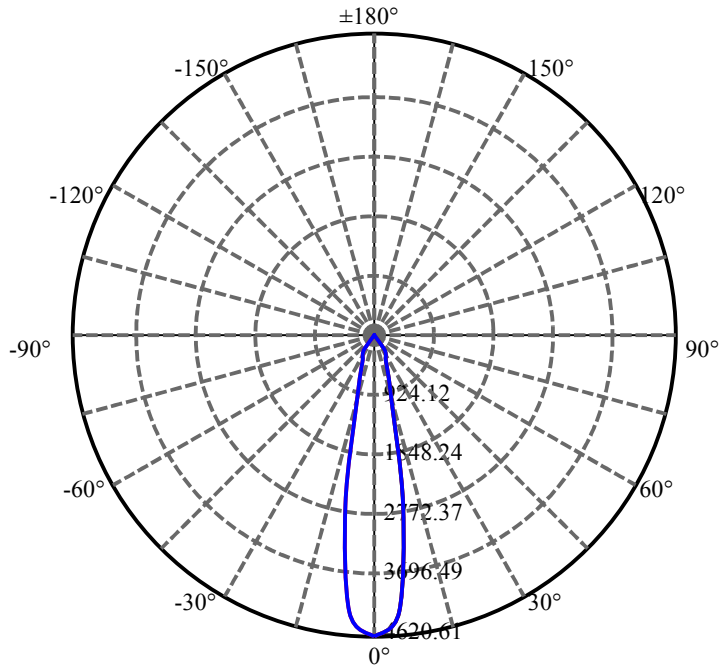
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 4620.608 | 27.632 | 27.632 | 2.397% | 2.670% |
| 5.0 | 4254.690 | 203.261 | 230.893 | 17.629% | 22.311% |
| 10.0 | 2622.336 | 249.602 | 480.495 | 21.648% | 46.429% |
| 15.0 | 1027.222 | 145.730 | 626.225 | 12.639% | 60.511% |
| 20.0 | 580.019 | 108.739 | 734.964 | 9.431% | 71.018% |
| 25.0 | 412.021 | 95.446 | 830.41 | 8.278% | 80.241% |
| 30.0 | 354.150 | 97.062 | 927.471 | 8.418% | 89.620% |
| 35.0 | 254.326 | 79.960 | 1007.431 | 6.935% | 97.346% |
| 40.0 | 14.755 | 5.199 | 1012.63 | .451% | 97.849% |
| 45.0 | 7.295 | 2.827 | 1015.457 | .245% | 98.122% |
| 50.0 | 4.872 | 2.046 | 1017.503 | .177% | 98.320% |
| 55.0 | 4.700 | 2.111 | 1019.614 | .183% | 98.524% |
| 60.0 | 4.618 | 2.192 | 1021.806 | .190% | 98.735% |
| 65.0 | 4.563 | 2.267 | 1024.072 | .197% | 98.954% |
| 70.0 | 4.542 | 2.340 | 1026.412 | .203% | 99.180% |
| 75.0 | 4.515 | 2.390 | 1028.802 | .207% | 99.411% |
| 80.0 | 4.494 | 2.426 | 1031.228 | .210% | 99.646% |
| 85.0 | 4.473 | 2.443 | 1033.671 | .212% | 99.882% |
| 90.0 | 4.460 | 1.222 | 1034.893 | .106% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 927.47 | 80.44% | 89.62% |
| 0-40 | 1012.63 | 87.83% | 97.85% |
| 0-60 | 1021.81 | 88.62% | 98.74% |
| 0-90 | 1033.67 | 89.65% | 99.88% |
| 0-120 | 1033.67 | 89.65% | 99.88% |
| 0-180 | 1034.89 | 89.76% | 100.00% |
| 60-90 | 14.06 | 1.22% | 1.36% |
| 90-120 | 0.00 | 0.00% | 0.00% |
| 90-130 | 0.00 | 0.00% | 0.00% |
| 90-150 | 0.00 | 0.00% | 0.00% |
| 90-180 | 0.00 | 0.00% | 0.00% |
| 0-24.87 | 827.91 | 71.81% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 480.49 |
| 10-20 | 254.47 |
| 20-30 | 192.51 |
| 30-40 | 85.16 |
| 40-50 | 4.87 |
| 50-60 | 4.30 |
| 60-70 | 4.61 |
| 70-80 | 4.82 |
| 80-90 | 2.44 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |



C0(Max): —————

C0/C180: —————

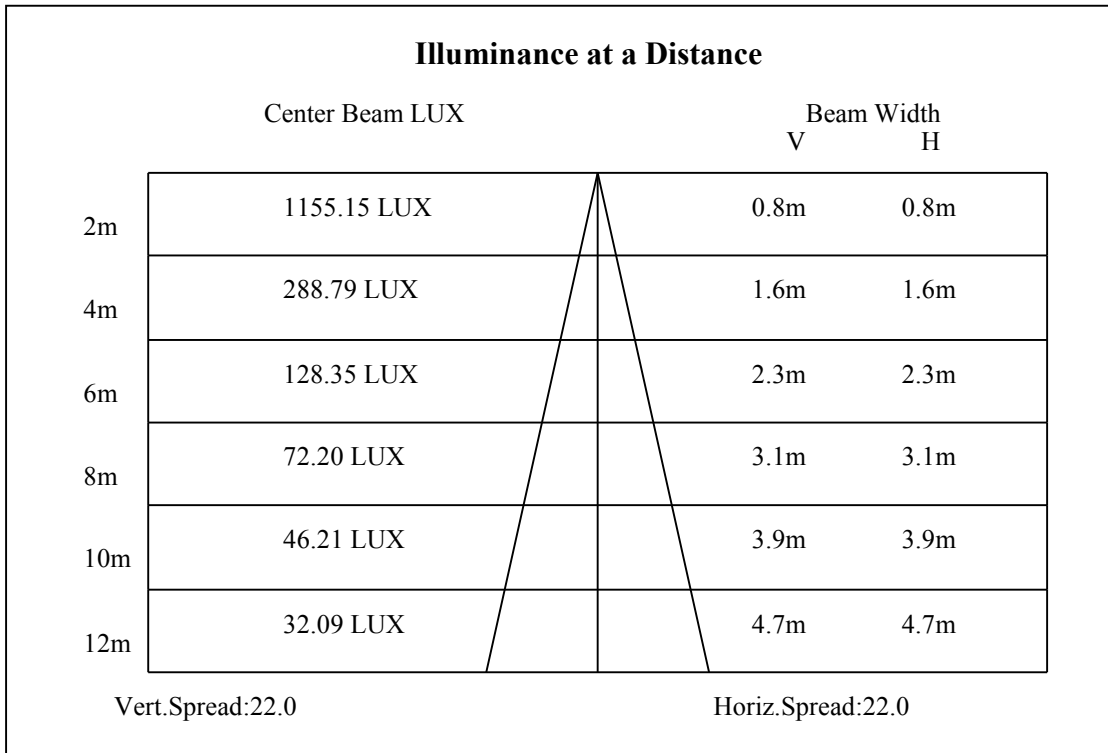
C90/C270: —————

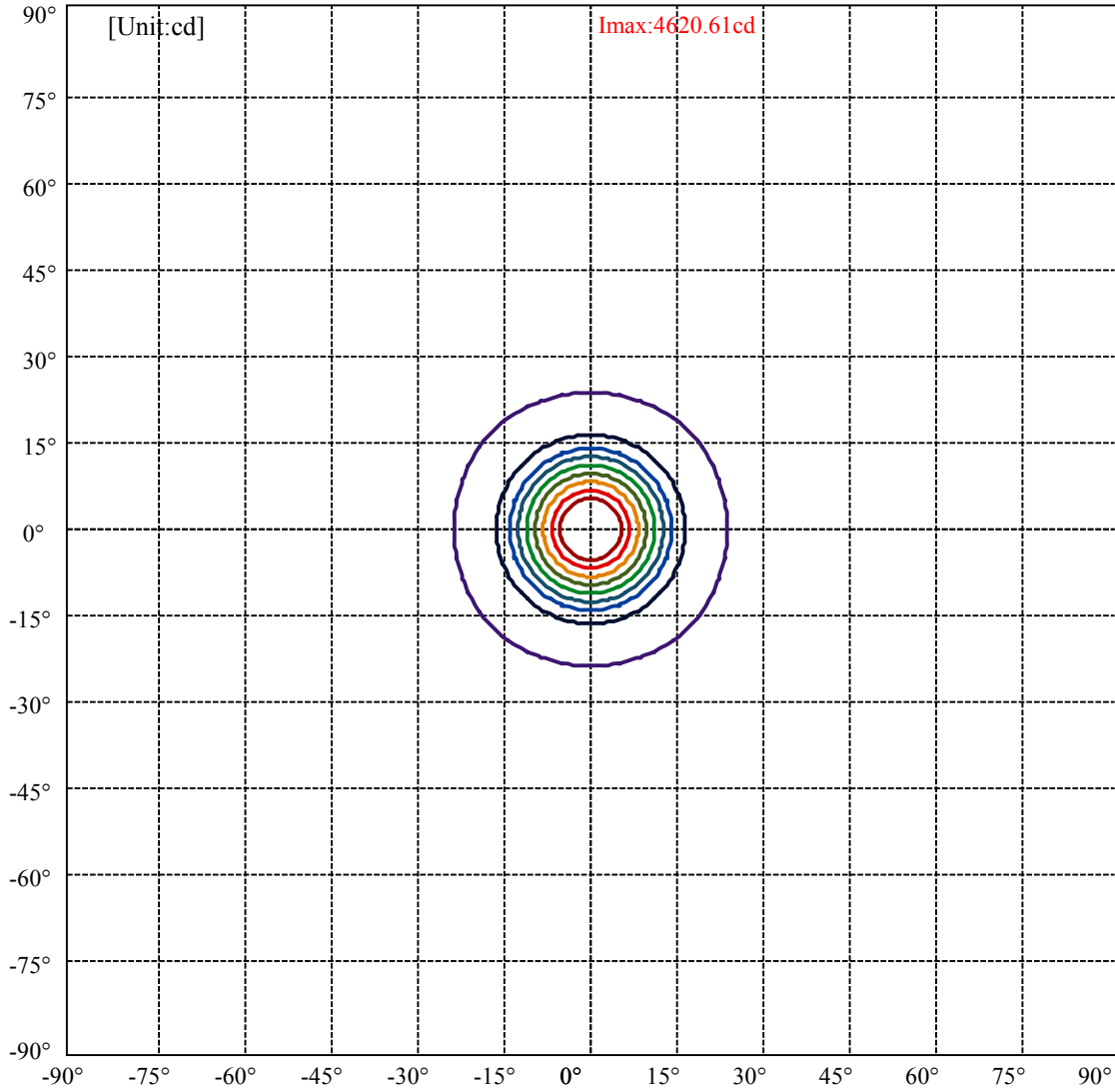
Field angle(10%Imax):C0/180Left:23.5 Right:23.5

:C90/270Left:23.5 Right:23.5

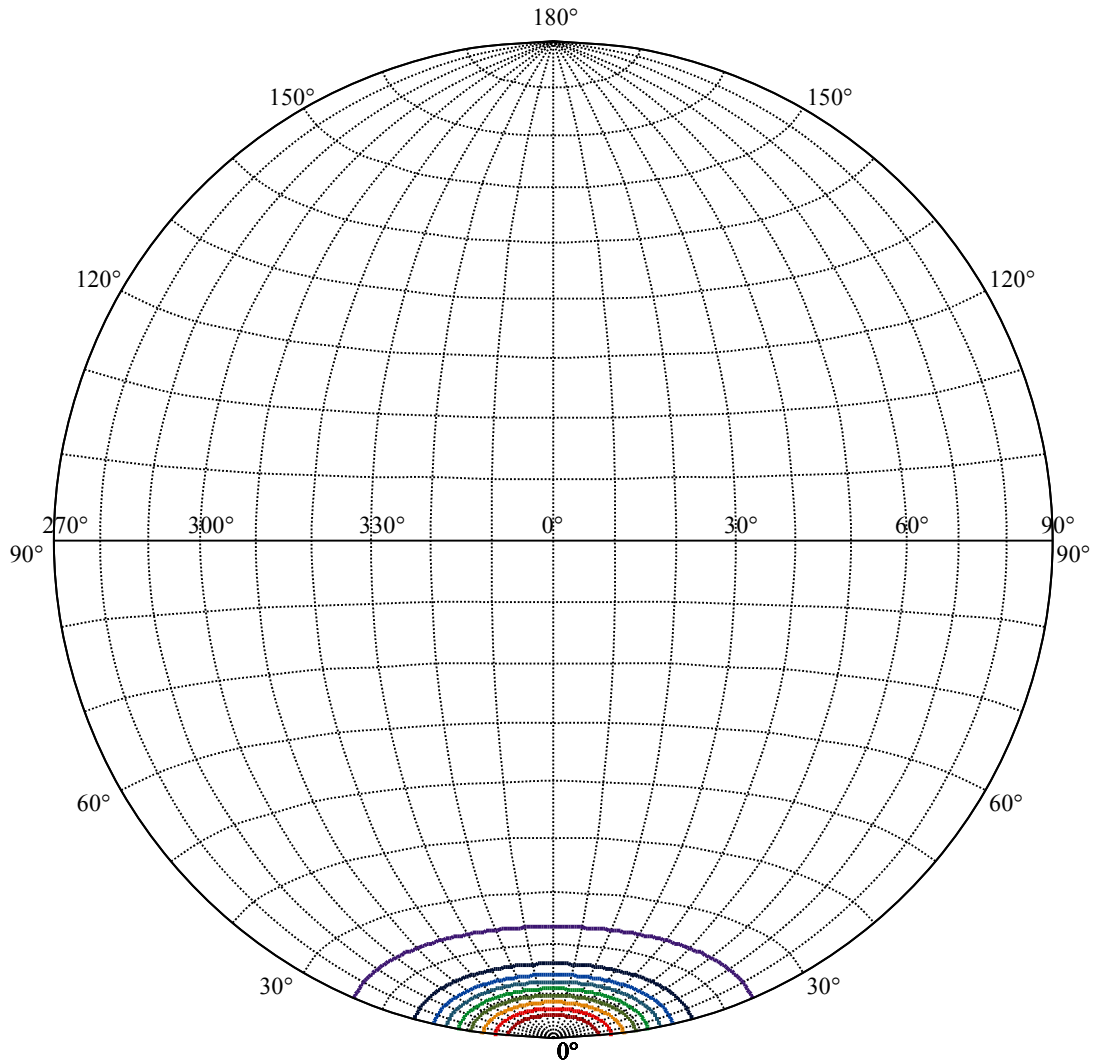
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0

:C90/270Left:11.0 Right:11.0





| | |
|-------------------|---|
| (10%Imax) 462.061 | — |
| (20%Imax) 924.122 | — |
| (30%Imax) 1386.18 | — |
| (40%Imax) 1848.24 | — |
| (50%Imax) 2310.3 | — |
| (60%Imax) 2772.36 | — |
| (70%Imax) 3234.43 | — |
| (80%Imax) 3696.49 | — |
| (90%Imax) 4158.55 | — |



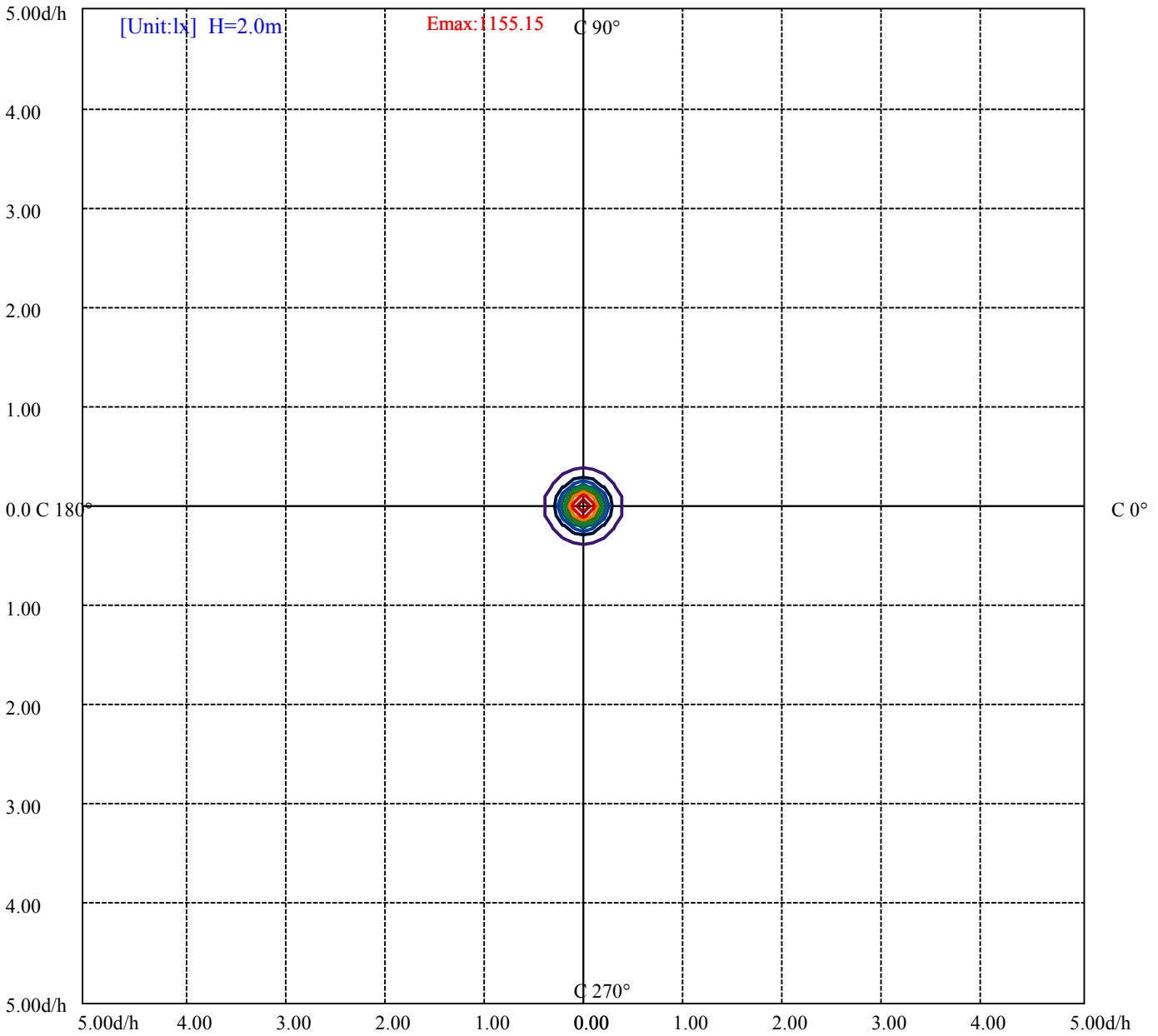
House

[Unit:cd]

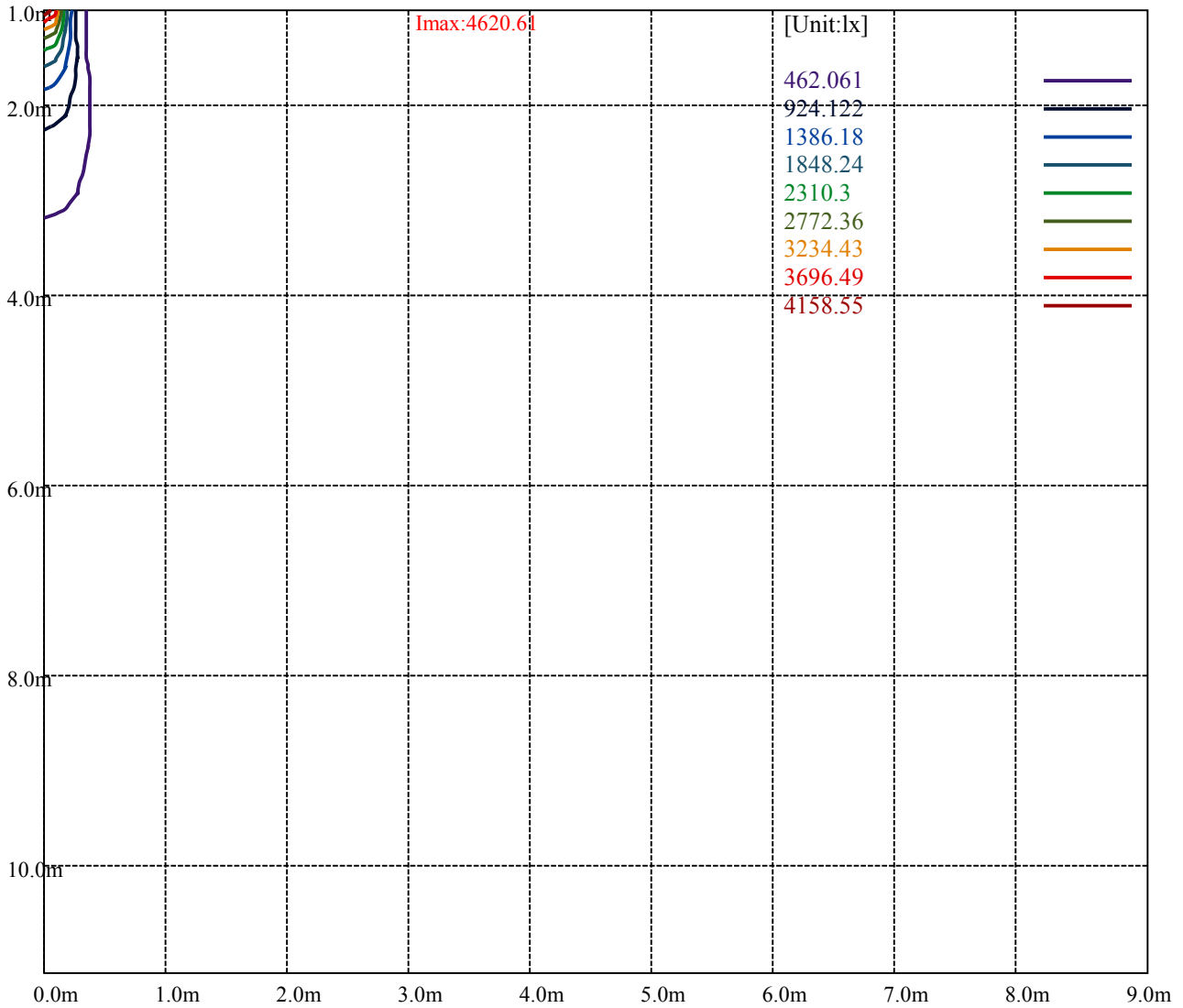
Road

Imax:4620.61

| | |
|-------------------|---|
| (10%Imax) 462.061 | — |
| (20%Imax) 924.122 | — |
| (30%Imax) 1386.18 | — |
| (40%Imax) 1848.24 | — |
| (50%Imax) 2310.3 | — |
| (60%Imax) 2772.36 | — |
| (70%Imax) 3234.43 | — |
| (80%Imax) 3696.49 | — |
| (90%Imax) 4158.55 | — |



- (10%Emax) 115.515
- (20%Emax) 231.0298
- (30%Emax) 346.545
- (40%Emax) 462.06
- (50%Emax) 577.575
- (60%Emax) 693.09
- (70%Emax) 808.605
- (80%Emax) 924.12
- (90%Emax) 1039.635



Luminance Table

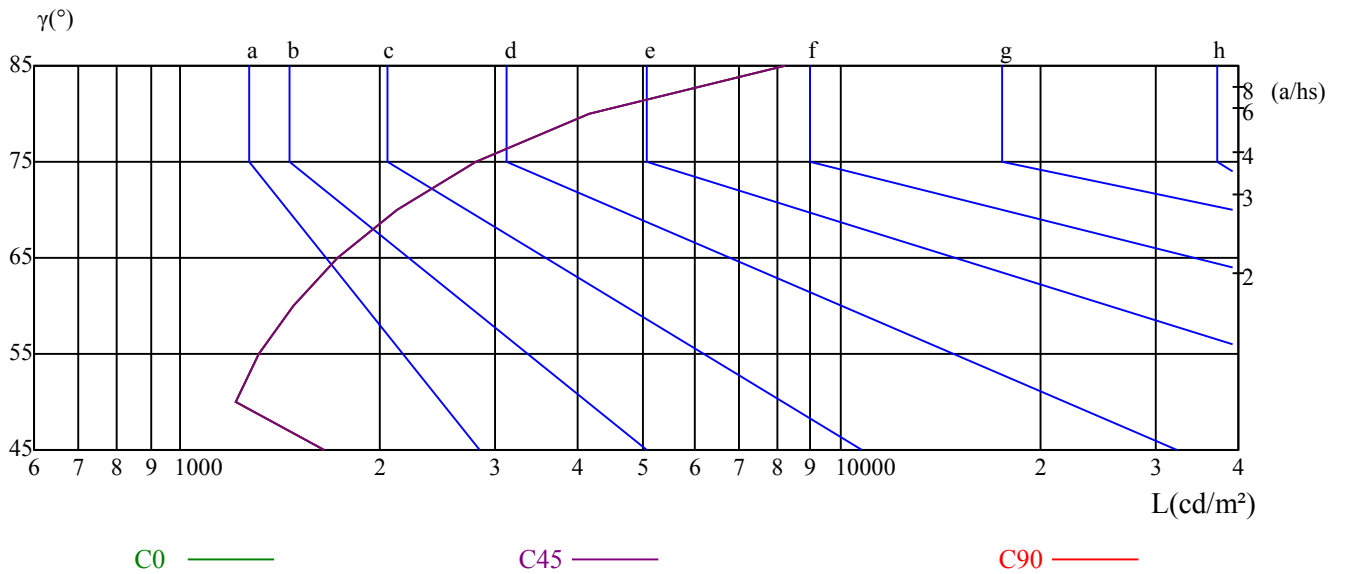
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|------|------|
| C0 | 1653 | 1215 | 1313 | 1480 | 1730 | 2128 | 2795 | 4147 | 8224 |
| C45 | 1653 | 1215 | 1313 | 1480 | 1730 | 2128 | 2795 | 4147 | 8224 |
| C90 | 1653 | 1215 | 1313 | 1480 | 1730 | 2128 | 2795 | 4147 | 8224 |

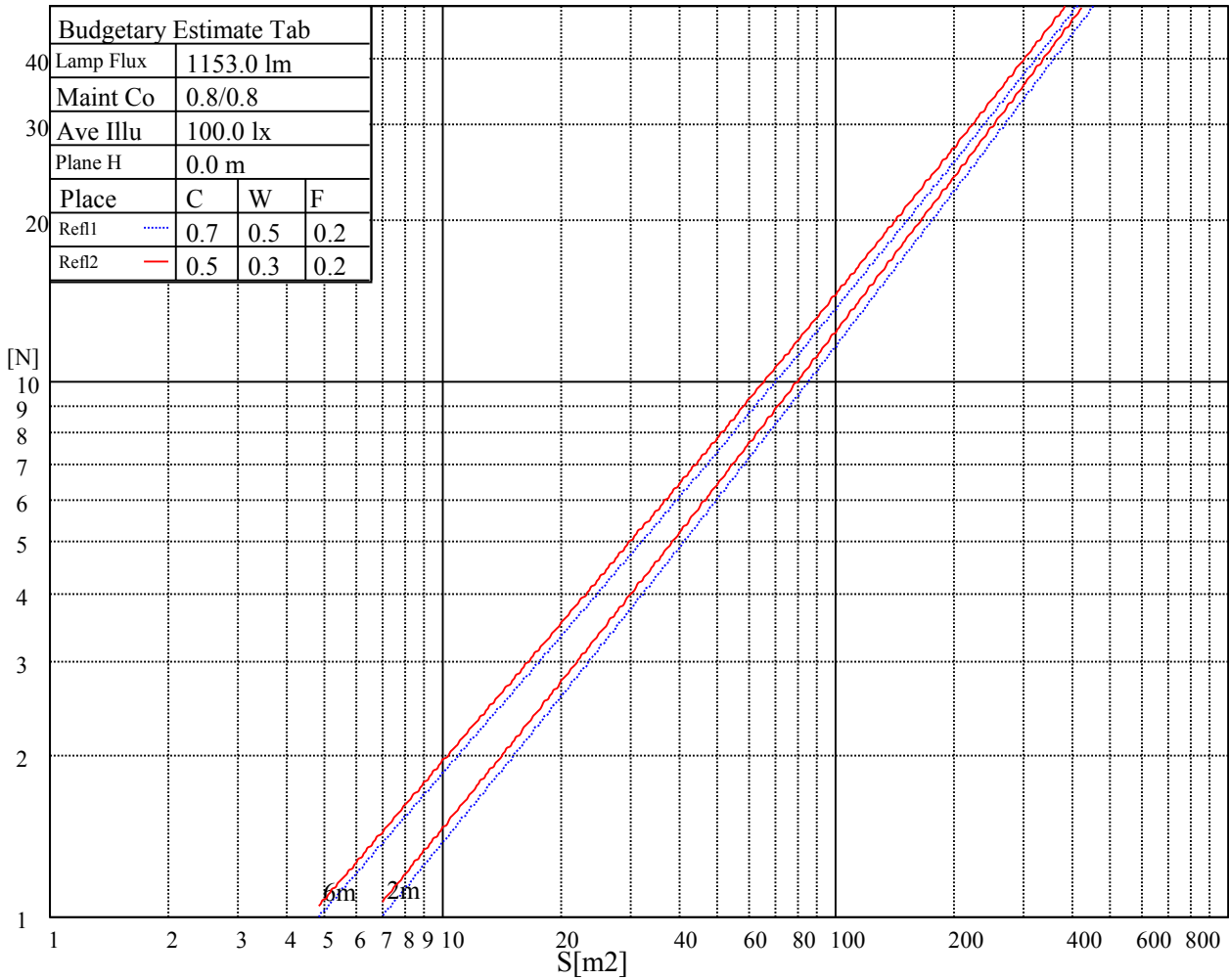
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 1730 | 1730 | 1730 | 2795 | 2795 | 2795 | 8224 | 8224 | 8224 |

Glare Table

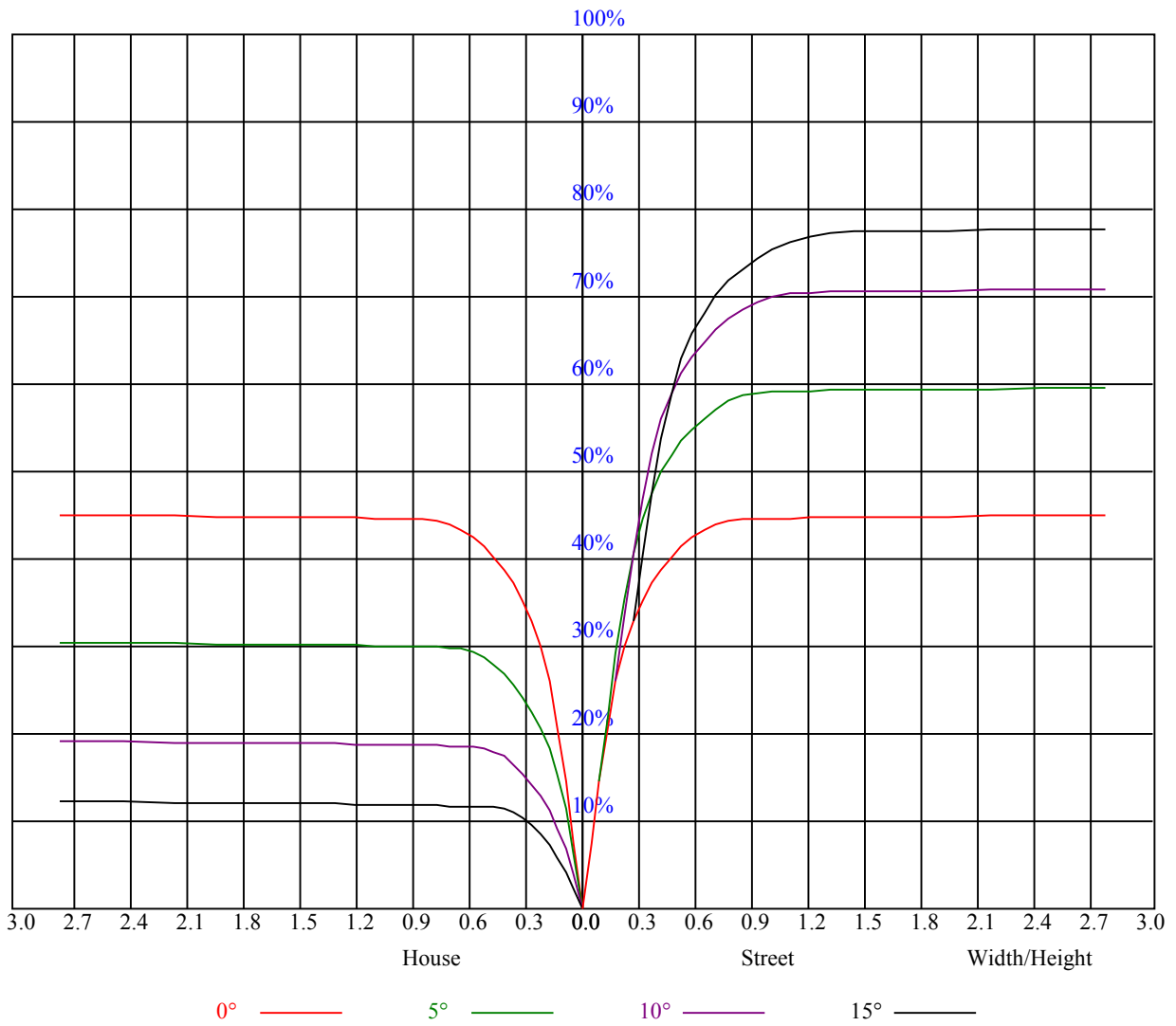
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |

Luminance Limiting Curve





| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|-----------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFICIENTS OF UTILIZATION RHOFC=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.10 | 1.10 | 1.10 | 1.07 | 1.07 | 1.07 | 1.02 | 1.02 | 1.02 | 0.98 | 0.98 | 0.98 | 0.94 | 0.94 | 0.94 | 0.92 |
| 1 | 1.00 | 0.98 | 0.95 | 0.98 | 0.96 | 0.94 | 0.95 | 0.93 | 0.91 | 0.91 | 0.90 | 0.88 | 0.88 | 0.87 | 0.86 | 0.84 |
| 2 | 0.95 | 0.92 | 0.89 | 0.94 | 0.91 | 0.88 | 0.91 | 0.88 | 0.86 | 0.88 | 0.86 | 0.84 | 0.86 | 0.84 | 0.82 | 0.81 |
| 3 | 0.91 | 0.87 | 0.84 | 0.90 | 0.86 | 0.83 | 0.88 | 0.84 | 0.82 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.79 | 0.78 |
| 4 | 0.87 | 0.83 | 0.80 | 0.86 | 0.82 | 0.79 | 0.84 | 0.81 | 0.78 | 0.83 | 0.80 | 0.78 | 0.81 | 0.79 | 0.77 | 0.75 |
| 5 | 0.84 | 0.80 | 0.77 | 0.83 | 0.79 | 0.76 | 0.82 | 0.78 | 0.76 | 0.80 | 0.77 | 0.75 | 0.79 | 0.76 | 0.74 | 0.73 |
| 6 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.73 | 0.79 | 0.76 | 0.73 | 0.78 | 0.75 | 0.73 | 0.77 | 0.74 | 0.72 | 0.71 |
| 7 | 0.78 | 0.74 | 0.71 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.71 | 0.76 | 0.73 | 0.70 | 0.75 | 0.72 | 0.70 | 0.69 |
| 8 | 0.76 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.69 | 0.74 | 0.71 | 0.68 | 0.73 | 0.70 | 0.68 | 0.67 |
| 9 | 0.74 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.67 | 0.71 | 0.68 | 0.66 | 0.65 |
| 10 | 0.72 | 0.68 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.70 | 0.67 | 0.65 | 0.70 | 0.67 | 0.65 | 0.64 |



Intensity data(cd)

| | | | | | | | | | |
|-----------------|---------|---------|---------|---------|--------|--------|--------|--------|-------|
| C/ γ (°) | 0.0 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 |
| 0.0 | 4595.56 | 4142.99 | 2359.72 | 922.19 | 560.47 | 407.97 | 357.87 | 278.59 | 14.04 |
| 45.0 | 4619.23 | 4010.86 | 2178.58 | 907.33 | 518.63 | 392.00 | 349.06 | 282.44 | 12.55 |
| 90.0 | 4633.55 | 3928.82 | 2178.58 | 825.13 | 498.87 | 389.08 | 344.10 | 139.29 | 12.39 |
| 135.0 | 4634.10 | 4452.41 | 3053.43 | 1222.80 | 599.01 | 415.13 | 352.36 | 284.64 | 14.37 |
| 180.0 | 4595.56 | 4470.58 | 2885.51 | 1088.58 | 605.95 | 411.88 | 345.92 | 267.96 | 14.31 |
| 225.0 | 4619.23 | 4537.75 | 3068.29 | 1067.27 | 651.92 | 438.03 | 359.13 | 302.15 | 20.21 |
| 270.0 | 4633.55 | 4443.60 | 3092.52 | 1280.61 | 657.92 | 440.45 | 369.98 | 307.21 | 17.51 |
| 315.0 | 4634.10 | 4050.50 | 2162.06 | 903.86 | 547.37 | 401.64 | 354.78 | 172.33 | 12.66 |
| 360.0 | 4595.56 | 4142.99 | 2359.72 | 922.19 | 560.47 | 407.97 | 357.87 | 278.59 | 14.04 |
| C/ γ (°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
| 0.0 | 5.34 | 4.84 | 4.68 | 4.57 | 4.51 | 4.51 | 4.46 | 4.46 | 4.46 |
| 45.0 | 5.12 | 4.84 | 4.68 | 4.62 | 4.57 | 4.57 | 4.51 | 4.51 | 4.46 |
| 90.0 | 5.12 | 4.84 | 4.68 | 4.62 | 4.57 | 4.57 | 4.51 | 4.51 | 4.46 |
| 135.0 | 7.54 | 4.90 | 4.73 | 4.62 | 4.57 | 4.57 | 4.51 | 4.51 | 4.46 |
| 180.0 | 9.14 | 4.90 | 4.68 | 4.57 | 4.57 | 4.51 | 4.51 | 4.46 | 4.46 |
| 225.0 | 10.74 | 4.90 | 4.73 | 4.68 | 4.57 | 4.51 | 4.57 | 4.51 | 4.46 |
| 270.0 | 10.19 | 4.96 | 4.73 | 4.68 | 4.57 | 4.57 | 4.51 | 4.51 | 4.51 |
| 315.0 | 5.18 | 4.79 | 4.68 | 4.57 | 4.57 | 4.51 | 4.51 | 4.46 | 4.51 |
| 360.0 | 5.34 | 4.84 | 4.68 | 4.57 | 4.51 | 4.51 | 4.46 | 4.46 | 4.46 |
| C/ γ (°) | 90.0 | | | | | | | | |
| 0.0 | 4.46 | | | | | | | | |
| 45.0 | 4.46 | | | | | | | | |
| 90.0 | 4.46 | | | | | | | | |
| 135.0 | 4.46 | | | | | | | | |
| 180.0 | 4.46 | | | | | | | | |
| 225.0 | 4.46 | | | | | | | | |
| 270.0 | 4.46 | | | | | | | | |
| 315.0 | 4.46 | | | | | | | | |
| 360.0 | 4.46 | | | | | | | | |