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乐达凯

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Client:

LumCAT: SYDV2807LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.231

Lamp flux(lm): 1939.1

Power (W): 27.450

Number of Lamps: 1

PF: 0.992

Length(mm): 710

Width(mm): 110

Phm Type: C

Height(mm): 80

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Photometric Results

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Lumens(lm): 1939.09, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.64

Central intensity(cd): 160.995, Maximum intensity(cd): 205.153

Angle of maximum intensity: C=75.0  $\gamma$ =50.0

Beam Angle(50%Imax): [C0/180]Total=316.4

[C90/270]Total=286.5

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0\_180=1.84 C90\_270=1.84

Maximum s/h(1/4): C0\_180=1.93 C90\_270=1.98

Up flux rate of lamp(%): 42.23%

Down flux rate of lamp(%): 57.77%

Up flux rate of LUM(%): 42.23%

Down flux rate of LUM(%): 57.77%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 31.592%

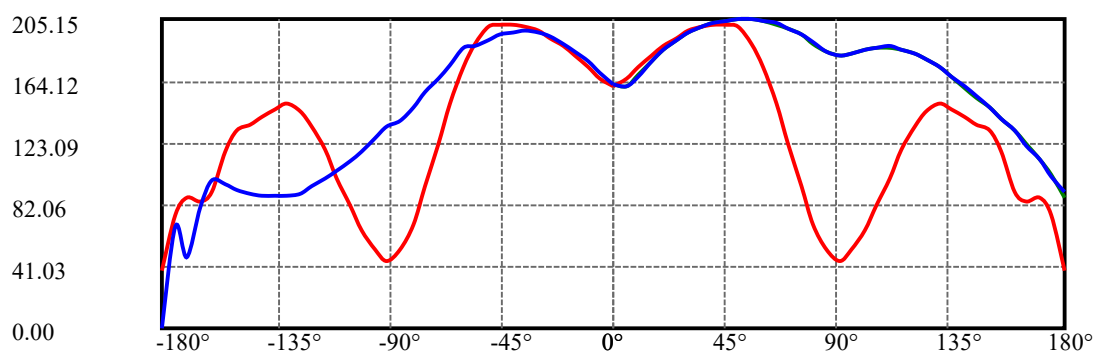
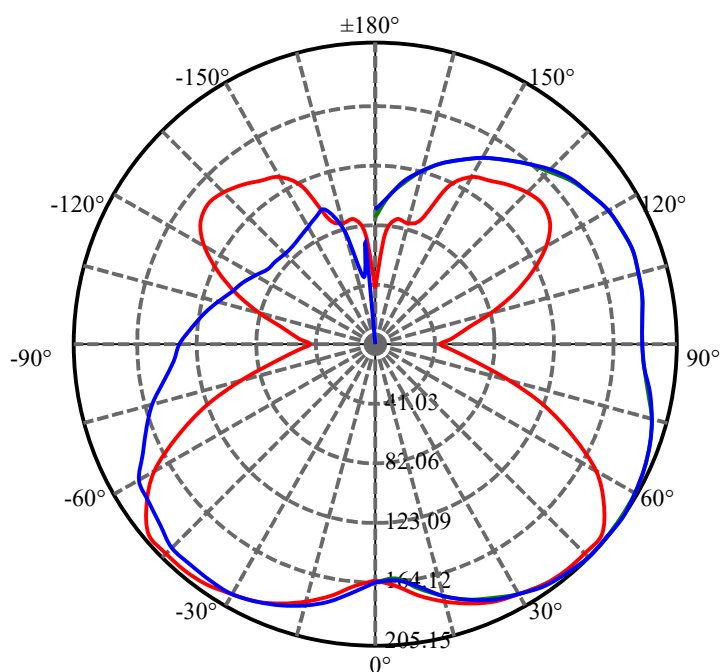
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0                | 161.378       | 0.000       | 0         | 0.00%       | 0.00%      |
| 5.0                | 165.135       | 3.903       | 3.903     | 0.20%       | 0.20%      |
| 10.0               | 172.839       | 12.090      | 15.994    | 0.62%       | 0.82%      |
| 15.0               | 180.582       | 20.965      | 36.958    | 1.08%       | 1.91%      |
| 20.0               | 187.252       | 30.315      | 67.273    | 1.56%       | 3.47%      |
| 25.0               | 192.580       | 39.837      | 107.111   | 2.05%       | 5.52%      |
| 30.0               | 196.643       | 49.257      | 156.367   | 2.54%       | 8.06%      |
| 35.0               | 199.250       | 58.298      | 214.665   | 3.01%       | 11.07%     |
| 40.0               | 200.668       | 66.723      | 281.389   | 3.44%       | 14.51%     |
| 45.0               | 200.630       | 74.304      | 355.692   | 3.83%       | 18.34%     |
| 50.0               | 199.978       | 80.949      | 436.641   | 4.17%       | 22.52%     |
| 55.0               | 196.720       | 86.255      | 522.897   | 4.45%       | 26.97%     |
| 60.0               | 191.315       | 89.693      | 612.59    | 4.63%       | 31.59%     |
| 65.0               | 182.882       | 90.968      | 703.558   | 4.69%       | 36.28%     |
| 70.0               | 173.108       | 90.139      | 793.697   | 4.65%       | 40.93%     |
| 75.0               | 162.490       | 87.720      | 881.417   | 4.52%       | 45.46%     |
| 80.0               | 150.990       | 83.878      | 965.295   | 4.33%       | 49.78%     |
| 85.0               | 140.870       | 79.305      | 1044.601  | 4.09%       | 53.87%     |
| 90.0               | 134.967       | 75.526      | 1120.127  | 3.89%       | 57.77%     |
| 95.0               | 131.824       | 73.050      | 1193.177  | 3.77%       | 61.53%     |
| 100.0              | 131.862       | 71.650      | 1264.826  | 3.70%       | 65.23%     |
| 105.0              | 133.127       | 70.904      | 1335.73   | 3.66%       | 68.88%     |
| 110.0              | 135.504       | 70.216      | 1405.946  | 3.62%       | 72.51%     |
| 115.0              | 137.497       | 69.126      | 1475.072  | 3.56%       | 76.07%     |
| 120.0              | 138.915       | 67.196      | 1542.268  | 3.47%       | 79.54%     |
| 125.0              | 138.954       | 64.229      | 1606.497  | 3.31%       | 82.85%     |
| 130.0              | 137.880       | 60.193      | 1666.69   | 3.10%       | 85.95%     |
| 135.0              | 134.699       | 55.079      | 1721.768  | 2.84%       | 88.79%     |
| 140.0              | 131.096       | 49.214      | 1770.982  | 2.54%       | 91.33%     |
| 145.0              | 126.917       | 43.048      | 1814.03   | 2.22%       | 93.55%     |
| 150.0              | 122.586       | 36.741      | 1850.771  | 1.89%       | 95.45%     |
| 155.0              | 115.648       | 30.149      | 1880.92   | 1.55%       | 97.00%     |
| 160.0              | 105.298       | 23.173      | 1904.093  | 1.20%       | 98.20%     |
| 165.0              | 95.064        | 16.513      | 1920.606  | 0.85%       | 99.05%     |
| 170.0              | 87.857        | 10.851      | 1931.456  | 0.56%       | 99.61%     |
| 175.0              | 83.756        | 6.139       | 1937.595  | 0.32%       | 99.92%     |
| 180.0              | 41.475        | 1.497       | 1939.092  | 0.08%       | 100.00%    |

## ZONAL LUMEN SUMMARY

| Zone     | Lumens  | %Lamp   | %Fixt   |
|----------|---------|---------|---------|
| 0-30     | 156.37  | 8.06%   | 8.06%   |
| 0-40     | 281.39  | 14.51%  | 14.51%  |
| 0-60     | 612.59  | 31.59%  | 31.59%  |
| 0-90     | 1120.13 | 57.77%  | 57.77%  |
| 0-120    | 1542.27 | 79.54%  | 79.54%  |
| 0-180    | 1939.09 | 100.00% | 100.00% |
| 60-90    | 507.54  | 26.17%  | 26.17%  |
| 90-120   | 422.14  | 21.77%  | 21.77%  |
| 90-130   | 546.56  | 28.19%  | 28.19%  |
| 90-150   | 730.64  | 37.68%  | 37.68%  |
| 90-180   | 817.47  | 42.16%  | 42.16%  |
| 0-120.70 | 1551.27 | 80.00%  | 80.00%  |

## ZONAL LUMEN SUMMARY

|         |        |
|---------|--------|
| 0-10    | 15.99  |
| 10-20   | 51.28  |
| 20-30   | 89.09  |
| 30-40   | 125.02 |
| 40-50   | 155.25 |
| 50-60   | 175.95 |
| 60-70   | 181.11 |
| 70-80   | 171.60 |
| 80-90   | 154.83 |
| 90-100  | 144.70 |
| 100-110 | 141.12 |
| 110-120 | 136.32 |
| 120-130 | 124.42 |
| 130-140 | 104.29 |
| 140-150 | 79.79  |
| 150-160 | 53.32  |
| 160-170 | 27.36  |
| 170-180 | 6.14   |

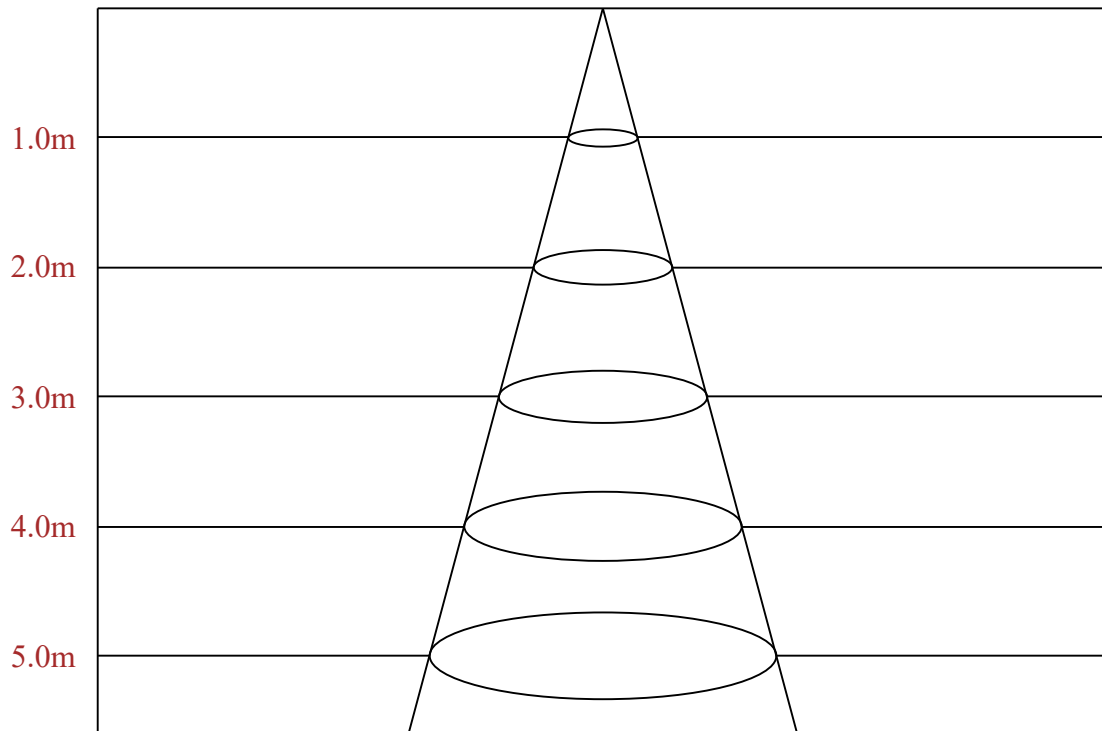
C75(Max): —————C0/C180: —————C90/C270: —————

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

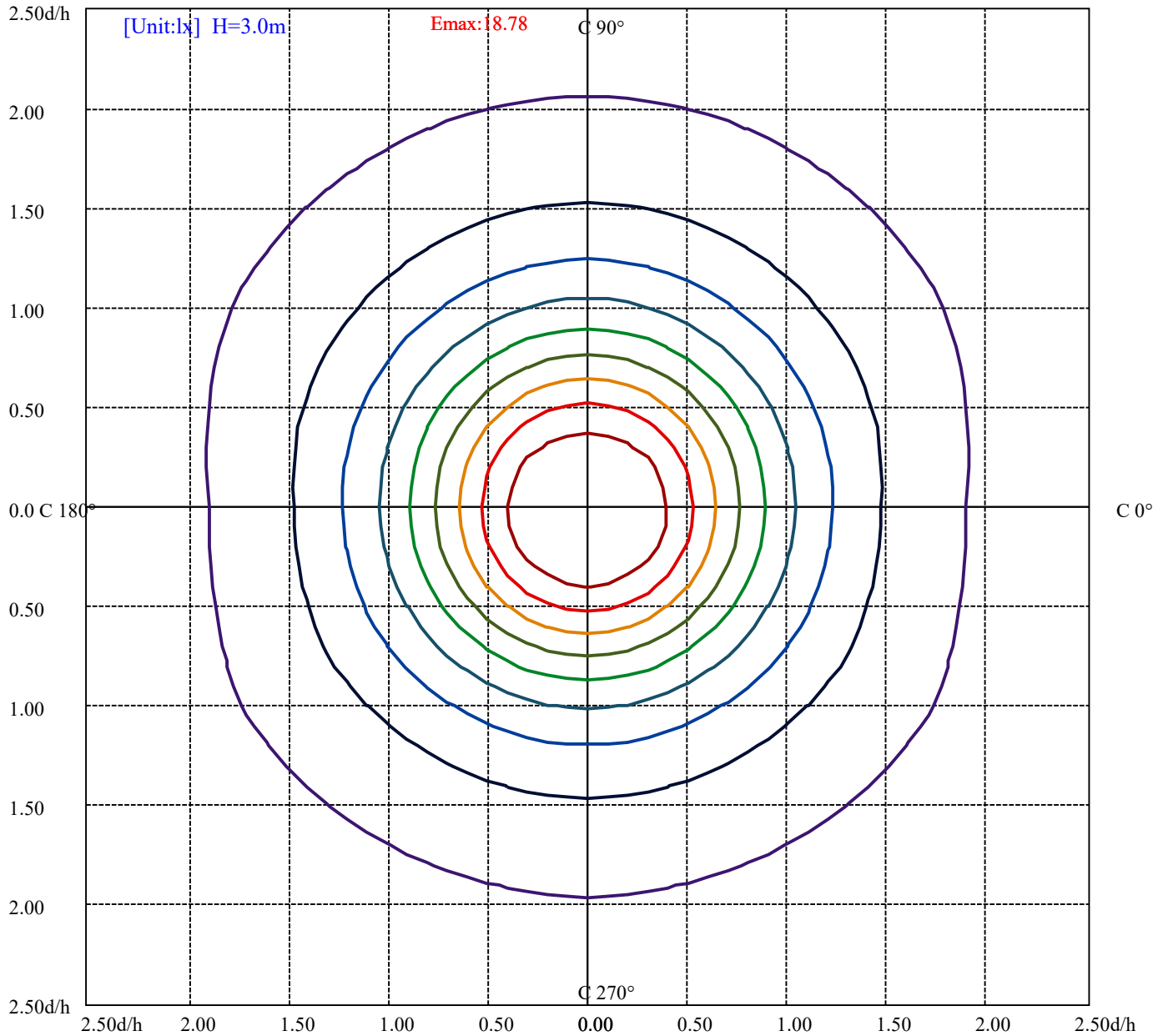
Beam Angle(50%Imax):C0/180Left:203.2 Right:113.2

:C90/270Left:167.1 Right:119.4

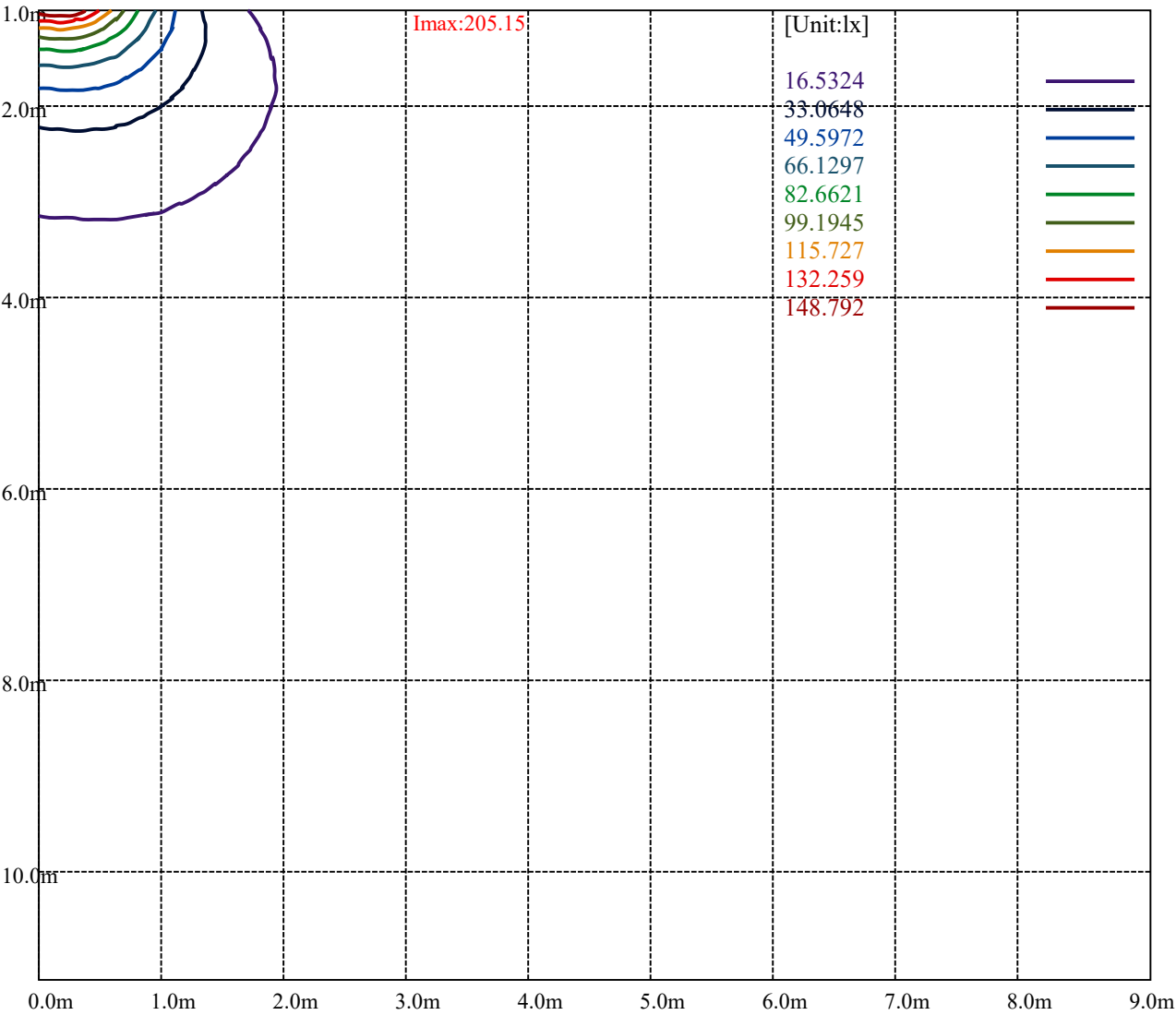


Max , Ave

Beam angle of C75 plane 341.67



|                    |   |
|--------------------|---|
| (10%Emax) 1.877778 | — |
| (20%Emax) 3.755555 | — |
| (30%Emax) 5.633333 | — |
| (40%Emax) 7.511111 | — |
| (50%Emax) 9.388889 | — |
| (60%Emax) 11.26667 | — |
| (70%Emax) 13.14444 | — |
| (80%Emax) 15.02222 | — |
| (90%Emax) 16.9     | — |



Luminance Table

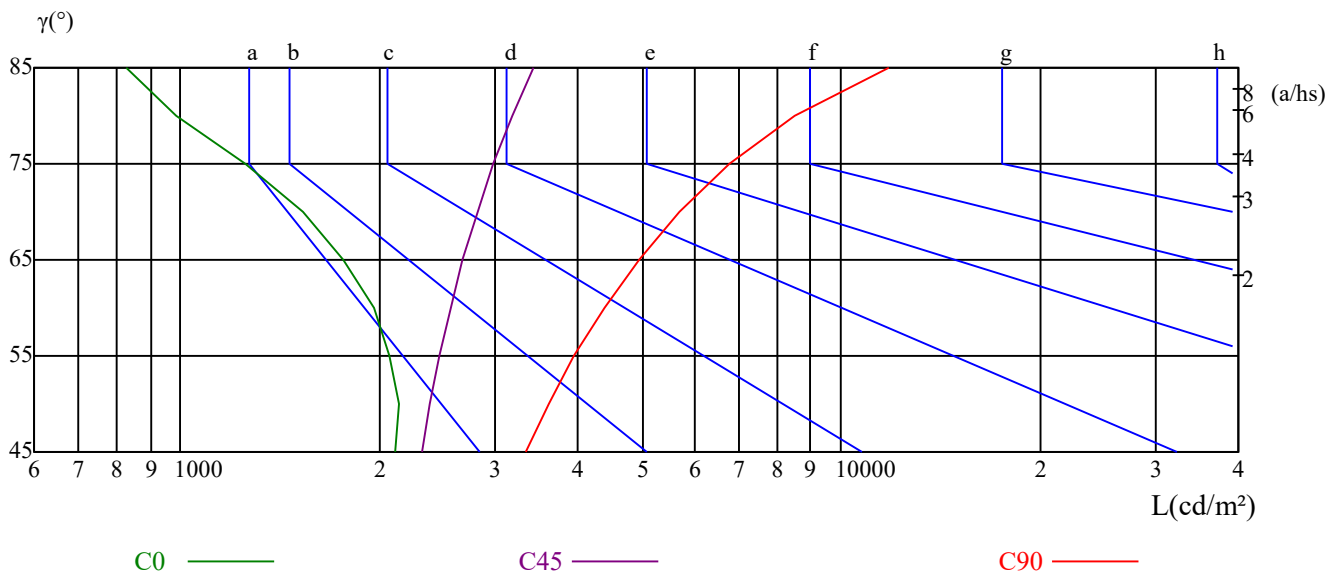
| $\gamma$ | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85    |
|----------|------|------|------|------|------|------|------|------|-------|
| C0       | 2107 | 2140 | 2070 | 1960 | 1759 | 1528 | 1256 | 986  | 827   |
| C45      | 2320 | 2382 | 2467 | 2561 | 2679 | 2814 | 2971 | 3176 | 3418  |
| C90      | 3324 | 3603 | 3945 | 4376 | 4939 | 5681 | 6792 | 8526 | 11815 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 4501       | 5714       | 5818    | 4665       | 8693       | 8886    | 7704       | 23652      | 23922   |

Glare Table

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

Luminance Limiting Curve



| RHOC | 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    | 1.09                                    | 1.09 | 1.09 | 1.02 | 1.02 | 1.02 | 0.88 | 0.88 | 0.88 | 0.75 | 0.75 | 0.75 | 0.63 | 0.63 | 0.63 | 0.58 |
| 1    | 0.89                                    | 0.84 | 0.79 | 0.83 | 0.78 | 0.74 | 0.71 | 0.67 | 0.64 | 0.60 | 0.57 | 0.54 | 0.50 | 0.47 | 0.45 | 0.40 |
| 2    | 0.76                                    | 0.68 | 0.61 | 0.70 | 0.63 | 0.57 | 0.60 | 0.54 | 0.50 | 0.50 | 0.46 | 0.42 | 0.41 | 0.38 | 0.35 | 0.31 |
| 3    | 0.65                                    | 0.56 | 0.49 | 0.60 | 0.52 | 0.46 | 0.51 | 0.45 | 0.40 | 0.43 | 0.38 | 0.34 | 0.35 | 0.31 | 0.28 | 0.24 |
| 4    | 0.57                                    | 0.48 | 0.40 | 0.53 | 0.44 | 0.38 | 0.45 | 0.38 | 0.33 | 0.38 | 0.32 | 0.28 | 0.31 | 0.27 | 0.23 | 0.19 |
| 5    | 0.50                                    | 0.41 | 0.34 | 0.47 | 0.38 | 0.32 | 0.40 | 0.33 | 0.28 | 0.33 | 0.28 | 0.23 | 0.27 | 0.23 | 0.19 | 0.16 |
| 6    | 0.45                                    | 0.35 | 0.29 | 0.41 | 0.33 | 0.27 | 0.35 | 0.29 | 0.23 | 0.30 | 0.24 | 0.20 | 0.24 | 0.20 | 0.17 | 0.14 |
| 7    | 0.40                                    | 0.31 | 0.25 | 0.37 | 0.29 | 0.23 | 0.32 | 0.25 | 0.20 | 0.27 | 0.21 | 0.17 | 0.22 | 0.18 | 0.14 | 0.12 |
| 8    | 0.36                                    | 0.28 | 0.22 | 0.34 | 0.26 | 0.20 | 0.29 | 0.22 | 0.18 | 0.24 | 0.19 | 0.15 | 0.20 | 0.16 | 0.13 | 0.10 |
| 9    | 0.33                                    | 0.25 | 0.19 | 0.31 | 0.23 | 0.18 | 0.26 | 0.20 | 0.16 | 0.22 | 0.17 | 0.13 | 0.18 | 0.14 | 0.11 | 0.09 |
| 10   | 0.30                                    | 0.22 | 0.17 | 0.28 | 0.21 | 0.16 | 0.24 | 0.18 | 0.14 | 0.20 | 0.15 | 0.12 | 0.17 | 0.13 | 0.10 | 0.08 |

## 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    | 160.99 | 161.91 | 170.19 | 178.47 | 184.91 | 191.35 | 195.95 | 199.63 | 200.55 |
| 15.0   | 161.91 | 161.91 | 170.19 | 178.47 | 185.83 | 192.27 | 196.87 | 199.63 | 203.31 |
| 30.0   | 161.91 | 161.91 | 168.35 | 177.55 | 184.91 | 191.35 | 196.87 | 200.55 | 203.31 |
| 45.0   | 160.99 | 160.07 | 167.43 | 176.63 | 183.99 | 190.43 | 195.95 | 200.55 | 203.31 |
| 60.0   | 161.91 | 159.15 | 166.51 | 175.71 | 183.99 | 190.43 | 195.95 | 199.63 | 202.39 |
| 75.0   | 160.99 | 159.15 | 167.43 | 175.71 | 183.99 | 190.43 | 195.95 | 199.63 | 202.39 |
| 90.0   | 161.91 | 160.99 | 167.43 | 176.63 | 184.91 | 191.35 | 195.95 | 200.55 | 202.39 |
| 105.0  | 161.91 | 160.99 | 168.35 | 177.55 | 184.91 | 191.35 | 196.87 | 200.55 | 203.31 |
| 120.0  | 160.99 | 161.91 | 168.35 | 177.55 | 185.83 | 192.27 | 196.87 | 200.55 | 203.31 |
| 135.0  | 161.91 | 162.83 | 171.11 | 179.39 | 186.75 | 192.27 | 196.87 | 200.55 | 202.39 |
| 150.0  | 160.99 | 163.75 | 172.03 | 180.31 | 192.27 | 193.19 | 197.79 | 200.55 | 202.39 |
| 165.0  | 160.07 | 163.75 | 172.03 | 179.39 | 186.75 | 192.27 | 196.87 | 199.63 | 201.47 |
| 180.0  | 160.99 | 168.35 | 176.63 | 183.07 | 190.43 | 194.11 | 197.79 | 199.63 | 201.47 |
| 195.0  | 161.91 | 169.27 | 177.55 | 183.99 | 190.43 | 195.03 | 198.71 | 200.55 | 201.47 |
| 210.0  | 161.91 | 169.27 | 177.55 | 184.91 | 190.43 | 195.03 | 197.79 | 199.63 | 200.55 |
| 225.0  | 160.99 | 169.27 | 176.63 | 183.99 | 189.51 | 194.11 | 196.87 | 198.71 | 198.71 |
| 240.0  | 161.91 | 170.19 | 177.55 | 183.99 | 188.59 | 193.19 | 195.95 | 196.87 | 196.87 |
| 255.0  | 160.99 | 169.27 | 176.63 | 183.07 | 188.59 | 193.19 | 195.95 | 196.87 | 196.87 |
| 270.0  | 161.91 | 169.27 | 177.55 | 183.99 | 188.59 | 193.19 | 195.95 | 196.87 | 195.95 |
| 285.0  | 161.91 | 169.27 | 176.63 | 183.99 | 189.51 | 193.19 | 196.87 | 197.79 | 197.79 |
| 300.0  | 160.99 | 169.27 | 176.63 | 183.07 | 184.91 | 193.19 | 195.95 | 197.79 | 197.79 |
| 315.0  | 161.91 | 168.35 | 176.63 | 183.07 | 188.59 | 193.19 | 195.95 | 197.79 | 198.71 |
| 330.0  | 160.99 | 167.43 | 174.79 | 182.15 | 187.67 | 193.19 | 196.87 | 198.71 | 199.63 |
| 345.0  | 160.07 | 165.59 | 173.87 | 181.23 | 187.67 | 192.27 | 195.95 | 198.71 | 199.63 |
| 360.0  | 160.99 | 161.91 | 170.19 | 178.47 | 184.91 | 191.35 | 195.95 | 199.63 | 200.55 |
| C/γ(°) | 45.0   | 50.0   | 55.0   | 60.0   | 65.0   | 70.0   | 75.0   | 80.0   | 85.0   |
| 0.0    | 201.47 | 201.47 | 191.35 | 176.63 | 151.79 | 126.96 | 98.44  | 71.76  | 53.36  |
| 15.0   | 203.31 | 204.23 | 200.55 | 189.51 | 173.87 | 156.39 | 139.84 | 123.28 | 110.40 |
| 30.0   | 205.15 | 204.23 | 204.23 | 203.31 | 199.63 | 192.27 | 186.75 | 178.47 | 170.19 |
| 45.0   | 205.15 | 205.15 | 205.15 | 204.23 | 202.39 | 199.63 | 195.03 | 190.43 | 183.07 |
| 60.0   | 204.23 | 204.23 | 204.23 | 204.23 | 202.39 | 199.63 | 195.03 | 190.43 | 183.99 |
| 75.0   | 204.23 | 205.15 | 204.23 | 204.23 | 202.39 | 198.71 | 195.03 | 189.51 | 184.91 |
| 90.0   | 204.23 | 205.15 | 205.15 | 204.23 | 202.39 | 198.71 | 195.03 | 189.51 | 183.99 |
| 105.0  | 204.23 | 205.15 | 205.15 | 204.23 | 201.47 | 198.71 | 194.11 | 188.59 | 183.07 |
| 120.0  | 203.31 | 203.31 | 203.31 | 202.39 | 200.55 | 197.79 | 192.27 | 187.67 | 182.15 |
| 135.0  | 203.31 | 203.31 | 203.31 | 201.47 | 199.63 | 195.95 | 191.35 | 185.83 | 179.39 |
| 150.0  | 202.39 | 202.39 | 201.47 | 200.55 | 195.03 | 187.67 | 180.31 | 171.11 | 163.75 |
| 165.0  | 201.47 | 201.47 | 197.79 | 185.83 | 169.27 | 151.79 | 134.32 | 116.84 | 103.04 |
| 180.0  | 200.55 | 199.63 | 186.75 | 169.27 | 145.36 | 117.76 | 90.16  | 65.32  | 51.52  |
| 195.0  | 201.47 | 200.55 | 194.11 | 181.23 | 164.67 | 148.12 | 129.72 | 111.32 | 94.76  |
| 210.0  | 199.63 | 199.63 | 197.79 | 193.19 | 186.75 | 177.55 | 167.43 | 151.79 | 136.16 |
| 225.0  | 198.71 | 196.87 | 193.19 | 187.67 | 182.15 | 173.87 | 165.59 | 154.55 | 144.44 |
| 240.0  | 195.03 | 193.19 | 188.59 | 183.99 | 177.55 | 168.35 | 159.15 | 149.96 | 143.52 |
| 255.0  | 194.11 | 191.35 | 186.75 | 181.23 | 173.87 | 166.51 | 157.31 | 153.63 | 138.92 |
| 270.0  | 195.03 | 191.35 | 187.67 | 185.83 | 174.79 | 165.59 | 156.39 | 146.28 | 138.00 |
| 285.0  | 195.95 | 193.19 | 188.59 | 183.07 | 175.71 | 167.43 | 158.23 | 148.12 | 141.68 |
| 300.0  | 195.95 | 193.19 | 189.51 | 184.91 | 178.47 | 170.19 | 161.91 | 151.79 | 144.44 |
| 315.0  | 197.79 | 196.87 | 194.11 | 189.51 | 183.99 | 175.71 | 166.51 | 155.47 | 144.44 |
| 330.0  | 198.71 | 198.71 | 196.87 | 193.19 | 184.91 | 177.55 | 165.59 | 149.04 | 132.48 |
| 345.0  | 199.63 | 199.63 | 191.35 | 177.55 | 160.07 | 141.68 | 124.20 | 103.04 | 89.24  |
| 360.0  | 201.47 | 201.47 | 191.35 | 176.63 | 151.79 | 126.96 | 98.44  | 71.76  | 53.36  |

## 乐达凯 SYDV2807LAJUDBK

Intensity data(cd)

Appendix Page: 11 Total:12

| C/γ(°) | 90.0   | 95.0   | 100.0  | 105.0  | 110.0  | 115.0  | 120.0  | 125.0  | 130.0  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0    | 43.24  | 50.60  | 62.56  | 78.20  | 96.60  | 115.92 | 131.56 | 142.60 | 149.04 |
| 15.0   | 104.88 | 109.48 | 117.76 | 127.88 | 138.92 | 147.20 | 154.55 | 159.15 | 159.15 |
| 30.0   | 166.51 | 169.27 | 173.87 | 178.47 | 180.31 | 179.39 | 177.55 | 173.87 | 168.35 |
| 45.0   | 181.23 | 182.15 | 184.91 | 185.83 | 185.83 | 184.91 | 181.23 | 175.71 | 171.11 |
| 60.0   | 181.23 | 182.15 | 184.91 | 185.83 | 185.83 | 184.91 | 182.15 | 177.55 | 172.03 |
| 75.0   | 181.23 | 182.15 | 184.91 | 185.83 | 185.83 | 184.91 | 182.15 | 178.47 | 172.95 |
| 90.0   | 181.23 | 182.15 | 184.91 | 185.83 | 186.75 | 184.91 | 182.15 | 178.47 | 173.87 |
| 105.0  | 181.23 | 183.07 | 184.91 | 185.83 | 185.83 | 184.91 | 182.15 | 178.47 | 173.87 |
| 120.0  | 179.39 | 181.23 | 183.99 | 185.83 | 185.83 | 183.99 | 181.23 | 176.63 | 171.11 |
| 135.0  | 179.39 | 180.31 | 183.07 | 183.99 | 183.99 | 182.15 | 178.47 | 172.95 | 168.35 |
| 150.0  | 160.07 | 163.75 | 169.27 | 173.87 | 176.63 | 175.71 | 173.87 | 170.19 | 165.59 |
| 165.0  | 100.28 | 103.96 | 111.32 | 121.44 | 132.48 | 141.68 | 149.96 | 154.55 | 155.47 |
| 180.0  | 46.92  | 54.28  | 67.16  | 83.72  | 103.04 | 121.44 | 136.16 | 146.28 | 149.04 |
| 195.0  | 81.88  | 72.68  | 71.76  | 76.36  | 86.48  | 100.28 | 114.08 | 125.12 | 130.64 |
| 210.0  | 122.36 | 104.88 | 97.52  | 92.92  | 92.00  | 92.00  | 96.60  | 100.28 | 103.04 |
| 225.0  | 136.16 | 123.28 | 111.32 | 104.88 | 102.12 | 99.36  | 99.36  | 99.36  | 101.20 |
| 240.0  | 136.16 | 126.96 | 124.20 | 112.24 | 108.56 | 104.88 | 101.20 | 98.44  | 97.52  |
| 255.0  | 134.32 | 126.96 | 118.68 | 113.16 | 107.64 | 103.04 | 98.44  | 93.84  | 91.08  |
| 270.0  | 133.40 | 126.04 | 117.76 | 110.40 | 104.88 | 99.36  | 93.84  | 89.24  | 88.32  |
| 285.0  | 136.16 | 128.80 | 120.52 | 115.92 | 110.40 | 105.80 | 101.20 | 96.60  | 93.84  |
| 300.0  | 138.92 | 129.72 | 122.36 | 119.60 | 116.84 | 112.24 | 108.56 | 104.88 | 102.12 |
| 315.0  | 136.16 | 124.20 | 115.00 | 111.32 | 108.56 | 106.72 | 106.72 | 107.64 | 109.48 |
| 330.0  | 117.76 | 103.04 | 97.52  | 95.68  | 96.60  | 99.36  | 103.04 | 105.80 | 107.64 |
| 345.0  | 79.12  | 72.68  | 74.52  | 80.04  | 90.16  | 104.88 | 117.76 | 128.80 | 134.32 |
| 360.0  | 43.24  | 50.60  | 62.56  | 78.20  | 96.60  | 115.92 | 131.56 | 142.60 | 149.04 |
| C/γ(°) | 135.0  | 140.0  | 145.0  | 150.0  | 155.0  | 160.0  | 165.0  | 170.0  | 175.0  |
| 0.0    | 146.28 | 141.68 | 137.08 | 132.48 | 122.36 | 96.60  | 86.48  | 89.24  | 75.44  |
| 15.0   | 153.63 | 148.12 | 142.60 | 136.16 | 129.72 | 115.00 | 87.40  | 88.32  | 81.88  |
| 30.0   | 161.91 | 154.55 | 148.12 | 141.68 | 134.32 | 126.04 | 106.72 | 84.64  | 86.48  |
| 45.0   | 164.67 | 158.23 | 151.79 | 145.36 | 137.08 | 128.80 | 119.60 | 98.44  | 78.20  |
| 60.0   | 165.59 | 159.15 | 152.71 | 146.28 | 138.00 | 129.72 | 120.52 | 111.32 | 90.16  |
| 75.0   | 166.51 | 160.07 | 152.71 | 146.28 | 138.92 | 130.64 | 121.44 | 111.32 | 101.20 |
| 90.0   | 167.43 | 160.07 | 153.63 | 146.28 | 138.92 | 130.64 | 121.44 | 112.24 | 101.20 |
| 105.0  | 166.51 | 159.15 | 152.71 | 146.28 | 138.92 | 130.64 | 122.36 | 112.24 | 102.12 |
| 120.0  | 165.59 | 159.15 | 152.71 | 145.36 | 138.00 | 129.72 | 120.52 | 111.32 | 100.28 |
| 135.0  | 162.83 | 156.39 | 149.96 | 142.60 | 135.24 | 126.96 | 117.76 | 108.56 | 98.44  |
| 150.0  | 159.15 | 151.79 | 145.36 | 138.00 | 130.64 | 123.28 | 115.00 | 105.80 | 96.60  |
| 165.0  | 149.96 | 145.36 | 139.84 | 133.40 | 127.88 | 120.52 | 111.32 | 103.96 | 94.76  |
| 180.0  | 144.44 | 139.84 | 134.32 | 128.80 | 113.16 | 85.56  | 82.80  | 82.80  | 74.52  |
| 195.0  | 127.88 | 123.28 | 115.92 | 112.24 | 98.44  | 92.00  | 79.12  | 74.52  | 78.20  |
| 210.0  | 106.72 | 106.72 | 102.12 | 98.44  | 95.68  | 87.40  | 77.28  | 73.60  | 74.52  |
| 225.0  | 103.96 | 106.72 | 108.56 | 104.88 | 101.20 | 94.76  | 81.88  | 71.76  | 69.92  |
| 240.0  | 95.68  | 95.68  | 94.76  | 93.84  | 91.08  | 84.64  | 80.04  | 66.24  | 60.72  |
| 255.0  | 90.16  | 90.16  | 91.08  | 92.00  | 92.00  | 91.08  | 83.72  | 60.72  | 50.60  |
| 270.0  | 87.40  | 87.40  | 89.24  | 92.00  | 95.68  | 97.52  | 80.04  | 46.92  | 68.08  |
| 285.0  | 92.92  | 92.92  | 93.84  | 94.76  | 95.68  | 88.32  | 65.32  | 61.64  | 80.96  |
| 300.0  | 100.28 | 99.36  | 99.36  | 97.52  | 92.00  | 71.76  | 58.88  | 72.68  | 83.72  |
| 315.0  | 112.24 | 113.16 | 111.32 | 108.56 | 93.84  | 69.00  | 68.08  | 78.20  | 84.64  |
| 330.0  | 109.48 | 109.48 | 105.80 | 103.04 | 89.24  | 79.12  | 80.04  | 87.40  | 87.40  |
| 345.0  | 131.56 | 127.88 | 120.52 | 115.92 | 107.64 | 97.52  | 93.84  | 94.76  | 90.16  |
| 360.0  | 146.28 | 141.68 | 137.08 | 132.48 | 122.36 | 96.60  | 86.48  | 89.24  | 75.44  |

## Intensity data(cd)

|                       |       |
|-----------------------|-------|
| C/ $\gamma(^{\circ})$ | 180.0 |
| 0.0                   | 75.44 |
| 15.0                  | 78.20 |
| 30.0                  | 71.76 |
| 45.0                  | 78.20 |
| 60.0                  | 68.08 |
| 75.0                  | 81.88 |
| 90.0                  | 91.08 |
| 105.0                 | 91.08 |
| 120.0                 | 91.08 |
| 135.0                 | 90.16 |
| 150.0                 | 89.24 |
| 165.0                 | 89.24 |
| 180.0                 | 0.00  |
| 195.0                 | 0.00  |
| 210.0                 | 0.00  |
| 225.0                 | 0.00  |
| 240.0                 | 0.00  |
| 255.0                 | 0.00  |
| 270.0                 | 0.00  |
| 285.0                 | 0.00  |
| 300.0                 | 0.00  |
| 315.0                 | 0.00  |
| 330.0                 | 0.00  |
| 345.0                 | 0.00  |
| 360.0                 | 75.44 |