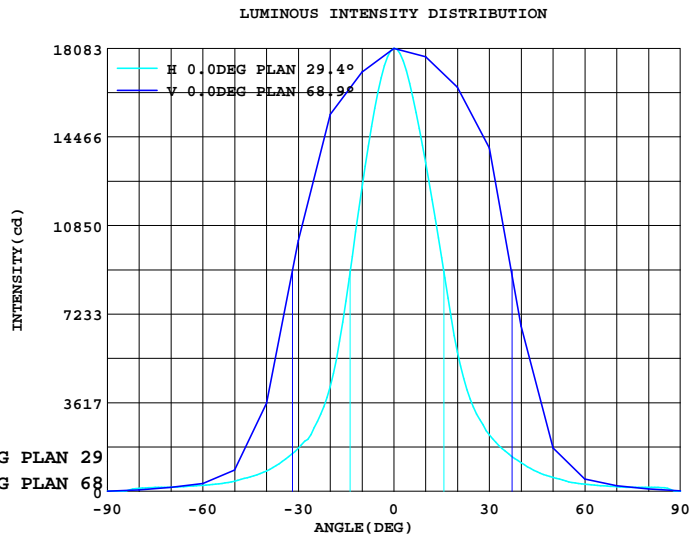
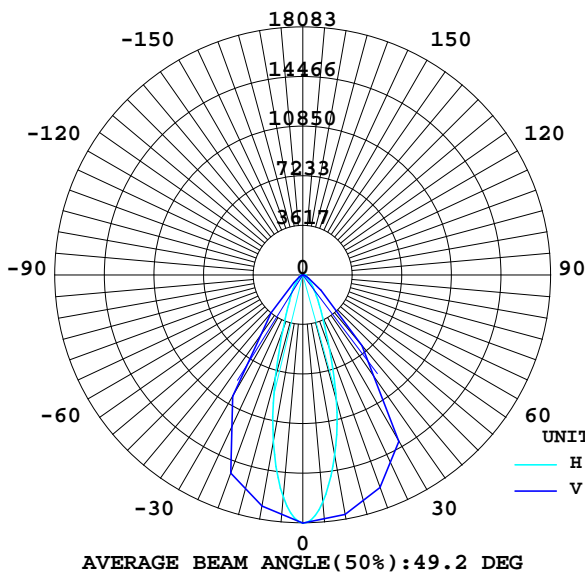


LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |

| | | | | | |
|----------------------|---------|----------------------|--------------|------------------|-------|
| MODEL: | 3030 | | | | |
| NOMINAL POWER(W): | 98 | Imax(cd): | 18083 | Voltage(V) | 219.8 |
| RATED VOLTAGE(V): | 220 | AVAILABILITY(%): | 85.9 | Current(A) | 0.451 |
| NOMINAL FLUX(lm): | 12897 | Avai. FLUX(lm): | 11077 | Power(W) | 97.58 |
| TEST FLUX(lm): | 12897 | EFFICIENCY(%): | 100.0 | Power Factor(PF) | 0.984 |
| LAMPS QUANTITY : | 1 | TOTAL FLUX(lm): | 12897 | EFFICIENCY(lm/W) | 132.2 |
| Effective Flux(lm) : | 11076.7 | θ @50%(H, V): | 29.4,68.9DEG | EEl: | 0.120 |



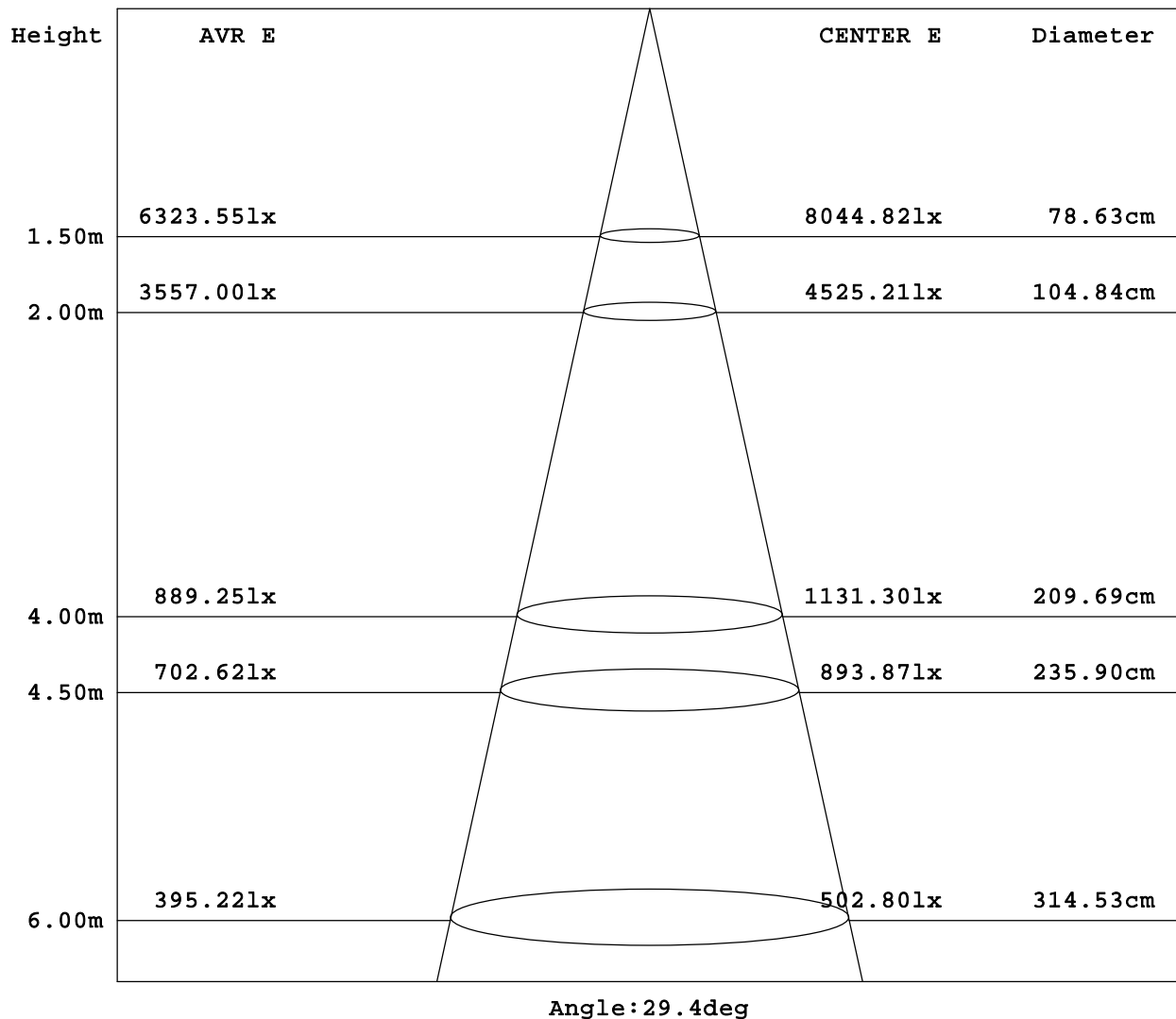
Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年08月02日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.500 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |



Test System: HOP00 HPG1900
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017年08月02日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity: 65.0%
 Test Distance: 10.500 m
 Remarks:

AREA LUMINOUS FLUX

Report number:

| | | | |
|-----------------------------|------------|-------------|--|
| MANUFACTURER: LITIAN | Address: | | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: | |
| SPECIFICATION: | DIMENSION: | SERIAL No.: | |

| 72 | AREA FLUX DIAGRAM | | | | | | | | | | | | | | | | | UNIT:lm | | Φ t | Φ a |
|---|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|-------|-------|-----|
| | 0.66 | 1.09 | 1.56 | 2.05 | 2.63 | 3.46 | 4.29 | 4.66 | 4.74 | 4.80 | 4.78 | 4.62 | 3.92 | 2.89 | 2.18 | 1.71 | 1.30 | 0.95 | 52.3 | 0.00 | |
| 64 | 0.94 | 1.35 | 1.91 | 2.64 | 3.65 | 5.29 | 7.01 | 8.13 | 8.59 | 8.75 | 8.56 | 7.82 | 6.33 | 4.42 | 2.95 | 2.04 | 1.38 | 0.96 | 82.7 | 0.00 | |
| 56 | 1.04 | 1.49 | 2.27 | 3.44 | 5.26 | 8.26 | 12.4 | 16.5 | 18.8 | 19.0 | 17.5 | 14.2 | 10.2 | 6.64 | 4.11 | 2.59 | 1.63 | 0.99 | 147 | 13.1 | |
| 48 | 1.08 | 1.67 | 2.76 | 4.47 | 7.61 | 13.7 | 24.1 | 37.3 | 47.0 | 48.3 | 40.6 | 27.7 | 16.6 | 9.46 | 5.34 | 3.16 | 1.91 | 1.10 | 294 | 164 | |
| 40 | 1.16 | 1.92 | 3.15 | 5.44 | 9.87 | 20.0 | 40.8 | 85.5 | 149 | 166 | 116 | 60.5 | 29.3 | 14.7 | 7.38 | 3.96 | 2.19 | 1.20 | 718 | 625 | |
| 32 | 1.20 | 2.13 | 3.71 | 6.87 | 13.4 | 27.9 | 63.9 | 154 | 264 | 272 | 174 | 79.5 | 34.9 | 17.6 | 8.67 | 4.52 | 2.37 | 1.32 | 1132 | 1043 | |
| 24 | 1.25 | 2.29 | 4.12 | 7.97 | 15.9 | 32.3 | 76.2 | 193 | 327 | 334 | 220 | 101 | 42.2 | 21.2 | 10.3 | 5.22 | 2.60 | 1.42 | 1398 | 1312 | |
| VERTICAL(DEG) | 1.33 | 2.42 | 4.37 | 8.68 | 17.1 | 33.5 | 77.3 | 196 | 321 | 335 | 238 | 115 | 48.8 | 24.4 | 12.1 | 5.88 | 2.83 | 1.50 | 1445 | 1359 | |
| | 1.33 | 2.55 | 4.88 | 9.85 | 20.1 | 40.5 | 95.2 | 231 | 346 | 324 | 207 | 91.5 | 41.2 | 22.6 | 11.4 | 5.66 | 2.82 | 1.52 | 1459 | 1372 | |
| | 1.32 | 2.42 | 4.47 | 9.01 | 18.0 | 35.1 | 80.5 | 198 | 323 | 335 | 233 | 112 | 49.5 | 25.3 | 12.8 | 6.16 | 2.98 | 1.54 | 1451 | 1368 | |
| | 1.28 | 2.37 | 4.52 | 9.18 | 19.2 | 39.9 | 97.3 | 217 | 319 | 307 | 208 | 99.5 | 44.4 | 22.9 | 11.3 | 5.53 | 2.76 | 1.48 | 1412 | 1330 | |
| -24 | 1.21 | 2.23 | 4.20 | 8.36 | 17.7 | 38.2 | 93.6 | 204 | 294 | 279 | 188 | 90.9 | 41.2 | 20.8 | 9.98 | 4.94 | 2.52 | 1.40 | 1301 | 1219 | |
| -32 | 1.14 | 2.00 | 3.53 | 6.60 | 13.5 | 28.9 | 64.4 | 147 | 235 | 240 | 166 | 84.0 | 39.0 | 18.8 | 8.97 | 4.51 | 2.33 | 1.30 | 1067 | 979 | |
| -40 | 1.04 | 1.85 | 3.25 | 5.85 | 11.8 | 25.3 | 50.7 | 93.1 | 135 | 124 | 73.2 | 39.9 | 22.3 | 11.7 | 5.91 | 3.35 | 1.99 | 1.18 | 611 | 513 | |
| -48 | 1.00 | 1.59 | 2.53 | 4.06 | 6.68 | 11.3 | 16.4 | 18.1 | 21.5 | 25.5 | 28.6 | 24.5 | 16.0 | 8.85 | 4.93 | 2.90 | 1.78 | 1.05 | 198 | 63.8 | |
| -56 | 0.87 | 1.35 | 2.08 | 3.12 | 4.59 | 6.20 | 5.93 | 4.48 | 3.46 | 3.70 | 5.34 | 8.42 | 7.56 | 5.10 | 3.35 | 2.28 | 1.50 | 0.98 | 70.4 | 0.00 | |
| -64 | 0.72 | 1.13 | 1.65 | 2.26 | 3.01 | 3.27 | 2.35 | 1.97 | 1.97 | 2.03 | 2.07 | 2.24 | 2.65 | 2.67 | 2.20 | 1.75 | 1.23 | 0.90 | 36.1 | 0.00 | |
| -72 | 0.52 | 0.91 | 1.21 | 1.43 | 1.66 | 1.77 | 1.37 | 0.97 | 0.89 | 0.88 | 0.96 | 1.32 | 1.76 | 1.82 | 1.59 | 1.33 | 1.02 | 0.79 | 22.2 | 0.00 | |
| -72 -64 -56 -48 -40 -32 -24 -16 HORIZONTAL(DEG) 16 24 32 40 48 56 64 72 | | | | | | | | | | | | | | | | | | | | | |
| Φ t | 19.1 | 32.8 | 56.2 | 101 | 192 | 375 | 814 | 1810 | 2819 | 2828 | 1932 | 966 | 458 | 242 | 126 | 67.5 | 37.2 | 21.6 | 12897 | | |
| Φ a | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 201 | 736 | 1752 | 2779 | 2790 | 1877 | 876 | 336 | 17.2 | 0.00 | 0.00 | 0.00 | 0.00 | | 11077 | |

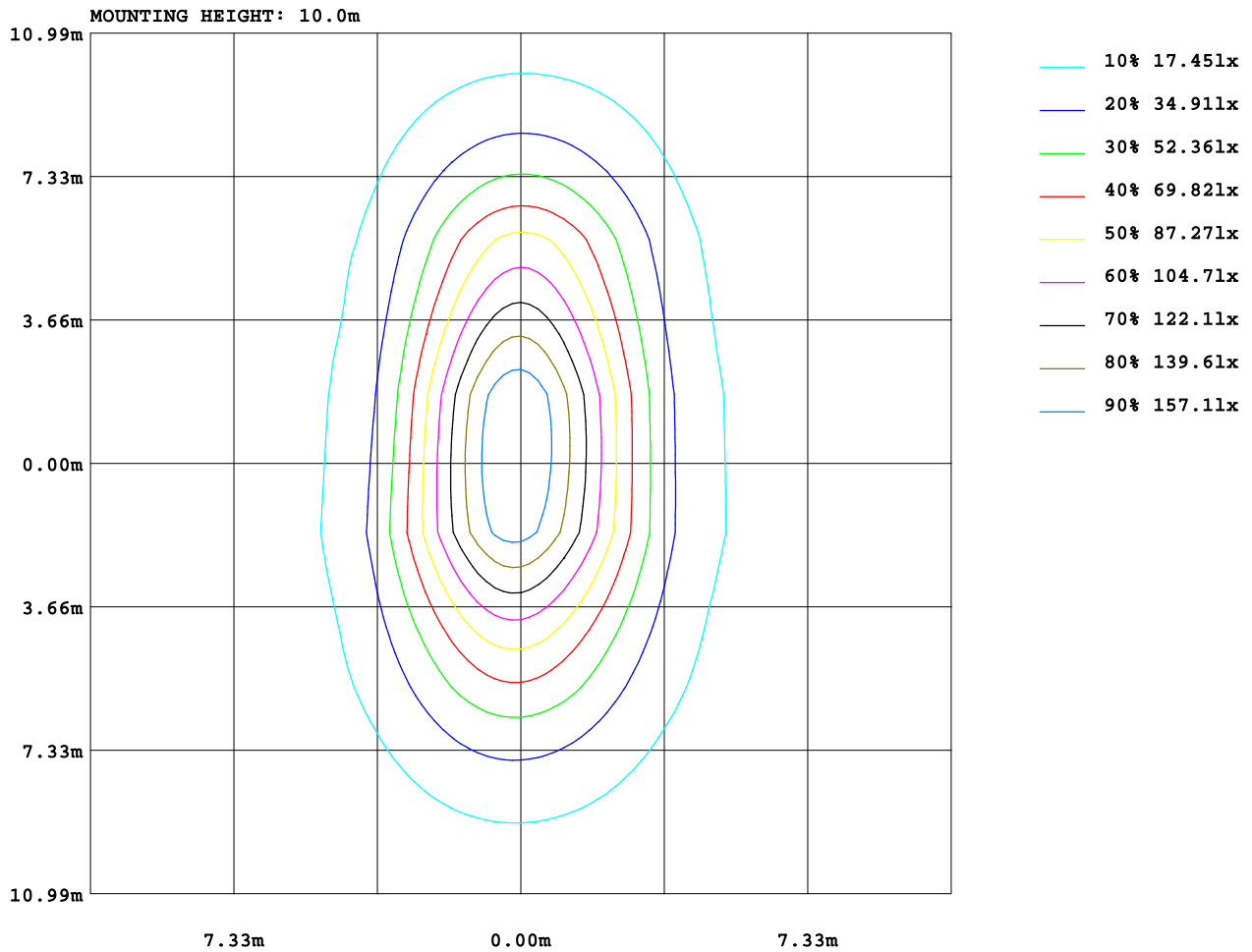
Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年08月02日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.500 m
 Remarks:

ISOLUX DIAGRAM

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |



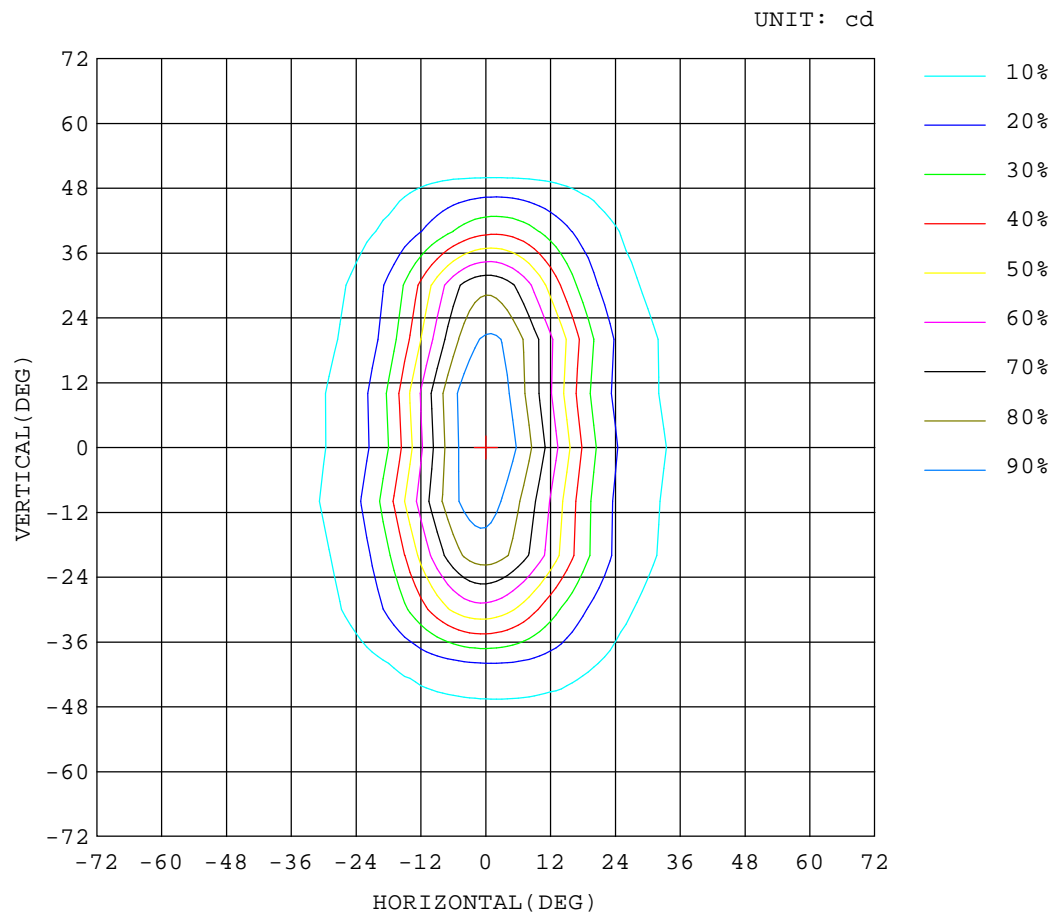
Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2017年08月02日

Test Set: 5.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:10.500 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |



Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2017年08月02日

Test Set: 5.0deg/s B-Beta (TYPE B)
Humidity:65.0%
Test Distance:10.500 m
Remarks:

ZONAL FLUX DIAGRAM

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | zone | total |
|----------|--------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------|-------|
| 5.0 | 1636 | 1680 | 1764 | 1711 | 1658 | 1721 | 1794 | 1707 | 0- 5 | 419.4 | 419.4 |
| 10.0 | 1307 | 1454 | 1718 | 1492 | 1285 | 1487 | 1778 | 1499 | 5- 10 | 1144 | 1563 |
| 15.0 | 909.5 | 1201 | 1628 | 1217 | 824.9 | 1175 | 1717 | 1246 | 10- 15 | 1617 | 3180 |
| 20.0 | 536.3 | 908.1 | 1538 | 896.3 | 450.6 | 825.3 | 1656 | 959.3 | 15- 20 | 1800 | 4980 |
| 25.0 | 329.2 | 636.0 | 1282 | 605.4 | 273.4 | 530.9 | 1528 | 687.3 | 20- 25 | 1764 | 6743 |
| 30.0 | 221.6 | 418.5 | 1025 | 385.7 | 182.4 | 339.3 | 1400 | 455.9 | 25- 30 | 1593 | 8336 |
| 35.0 | 157.5 | 274.3 | 693.0 | 245.8 | 126.5 | 222.4 | 1040 | 299.2 | 30- 35 | 1344 | 9680 |
| 40.0 | 113.0 | 186.3 | 360.5 | 164.5 | 86.62 | 154.8 | 679.8 | 205.4 | 35- 40 | 1018 | 10698 |
| 45.0 | 76.67 | 124.3 | 223.8 | 106.5 | 61.22 | 105.6 | 428.0 | 140.6 | 40- 45 | 717.4 | 11415 |
| 50.0 | 54.65 | 80.19 | 87.16 | 68.58 | 42.99 | 70.80 | 176.2 | 95.79 | 45- 50 | 485.2 | 11901 |
| 55.0 | 37.47 | 52.66 | 59.62 | 45.95 | 31.84 | 48.47 | 113.0 | 64.79 | 50- 55 | 309.4 | 12210 |
| 60.0 | 28.73 | 34.47 | 32.09 | 30.85 | 25.04 | 33.79 | 49.79 | 43.57 | 55- 60 | 214.9 | 12425 |
| 65.0 | 22.77 | 23.89 | 23.95 | 22.00 | 20.58 | 25.09 | 36.49 | 30.51 | 60- 65 | 149.0 | 12574 |
| 70.0 | 18.70 | 16.59 | 15.82 | 15.64 | 16.73 | 18.67 | 23.19 | 21.14 | 65- 70 | 112.9 | 12687 |
| 75.0 | 15.74 | 11.92 | 11.04 | 11.02 | 16.08 | 13.64 | 16.22 | 14.81 | 70- 75 | 84.71 | 12772 |
| 80.0 | 15.97 | 8.859 | 6.262 | 7.405 | 12.91 | 9.909 | 9.249 | 10.74 | 75- 80 | 64.74 | 12837 |
| 85.0 | 14.27 | 5.236 | 3.709 | 3.792 | 0.871 | 5.494 | 5.578 | 6.270 | 80- 85 | 44.08 | 12881 |
| 90.0 | 0.232 | 0.485 | 1.157 | 0.110 | 0.518 | 0.055 | 1.907 | 0.661 | 85- 90 | 16.71 | 12897 |
| 95.0 | | | | | | | | | 90- 95 | | |
| 100.0 | | | | | | | | | 95-100 | | |
| 105.0 | | | | | | | | | 100-105 | | |
| 110.0 | | | | | | | | | 105-110 | | |
| 115.0 | | | | | | | | | 110-115 | | |
| 120.0 | | | | | | | | | 115-120 | | |
| 125.0 | | | | | | | | | 120-125 | | |
| 130.0 | | | | | | | | | 125-130 | | |
| 135.0 | | | | | | | | | 130-135 | | |
| 140.0 | | | | | | | | | 135-140 | | |
| 145.0 | | | | | | | | | 140-145 | | |
| 150.0 | | | | | | | | | 145-150 | | |
| 155.0 | | | | | | | | | 150-155 | | |
| 160.0 | | | | | | | | | 155-160 | | |
| 165.0 | | | | | | | | | 160-165 | | |
| 170.0 | | | | | | | | | 165-170 | | |
| 175.0 | | | | | | | | | 170-175 | | |
| 180.0 | | | | | | | | | 175-180 | | |
| DEG | LUMINOUS INTENSITY:×10cd | | | | | | | | | UNIT:lm | |

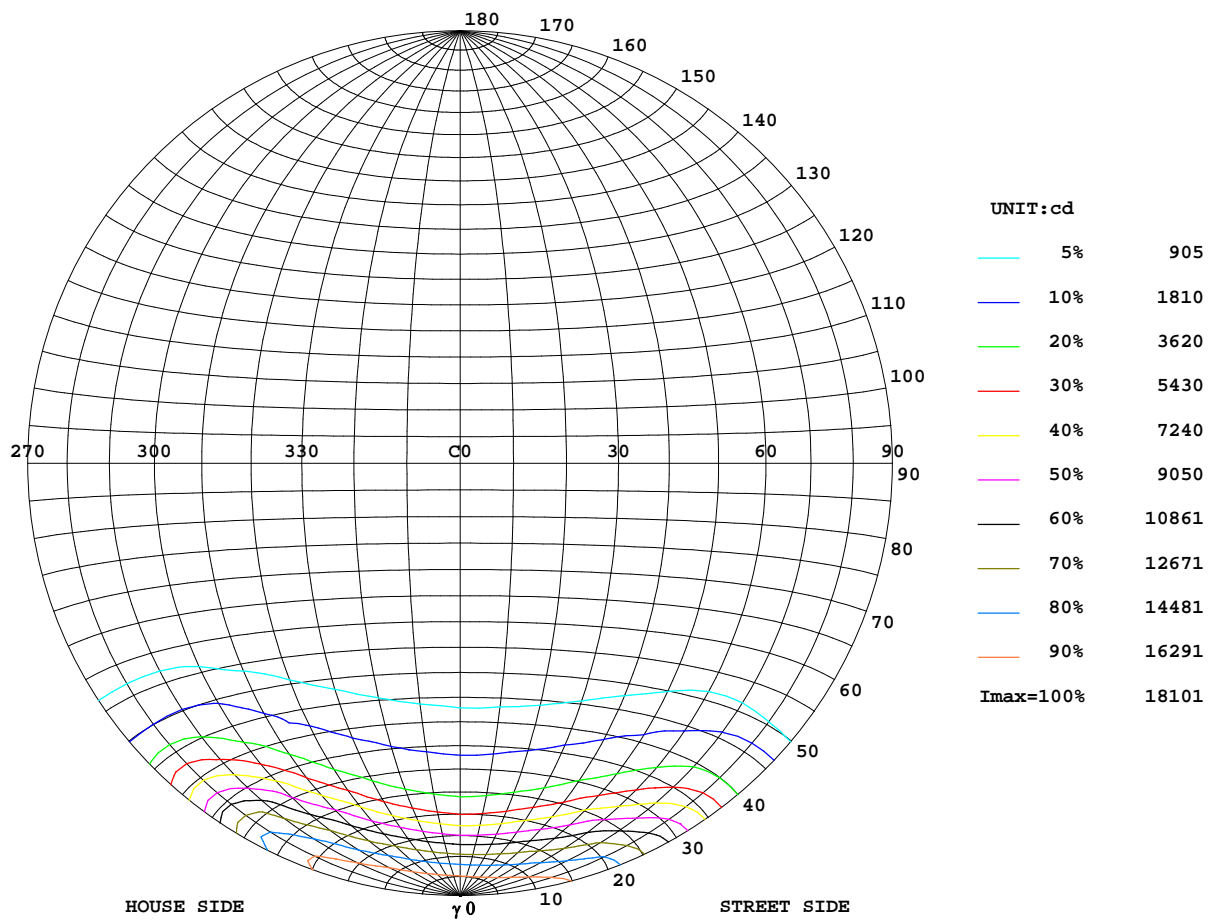
Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年08月02日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.500 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年08月02日

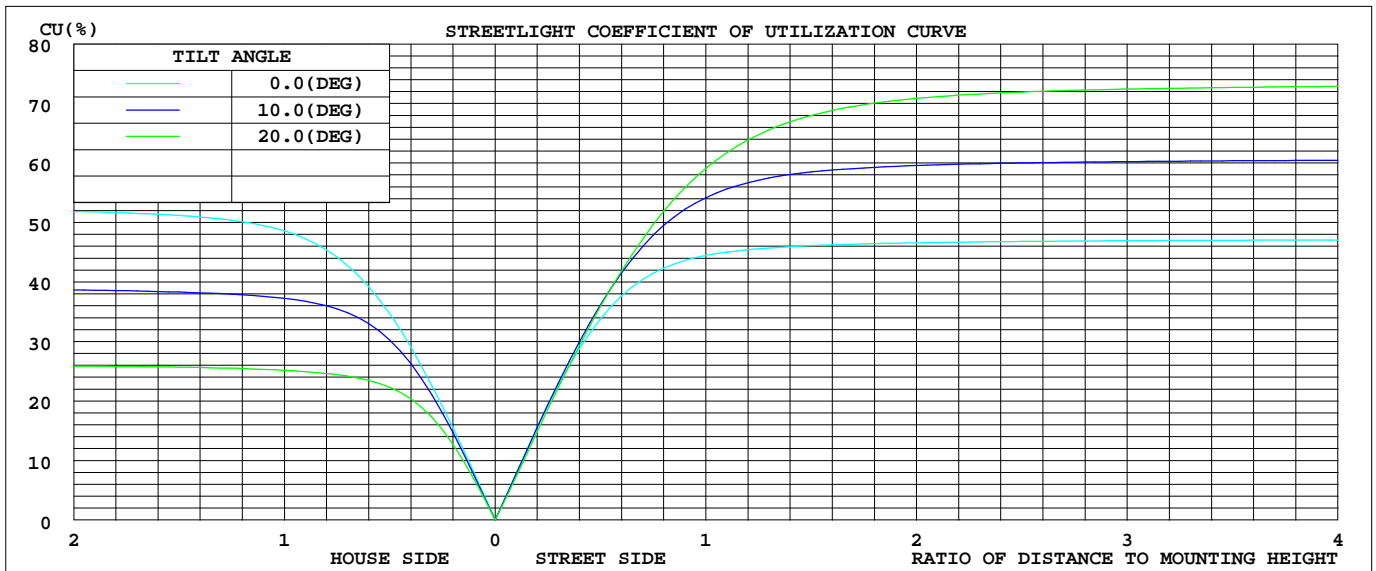
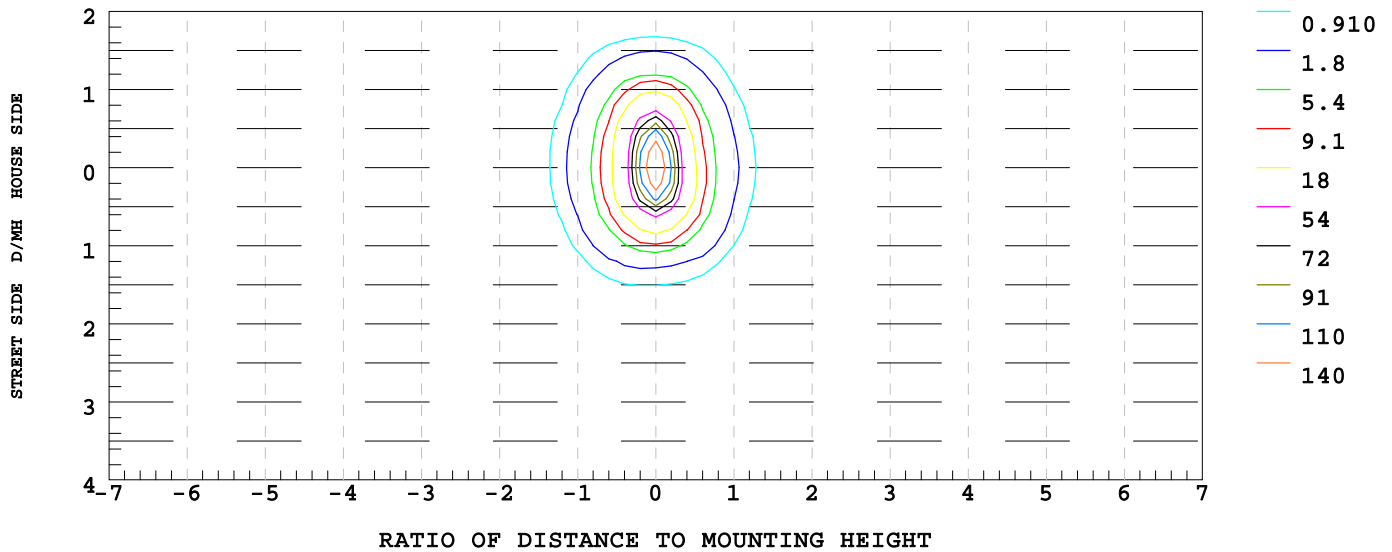
Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.500 m
 Remarks:

ISOLUX DIAGRAM

Report number:

| | | |
|-----------------------------|------------|-------------|
| MANUFACTURER: LITIAN | Address: | |
| NAME: LT-T-115A-100w-30X70度 | TYPE: | WEIGHT: |
| SPECIFICATION: | DIMENSION: | SERIAL No.: |

ILLUMINANCE AT MH=10 m,Enadir = 181.01 lx



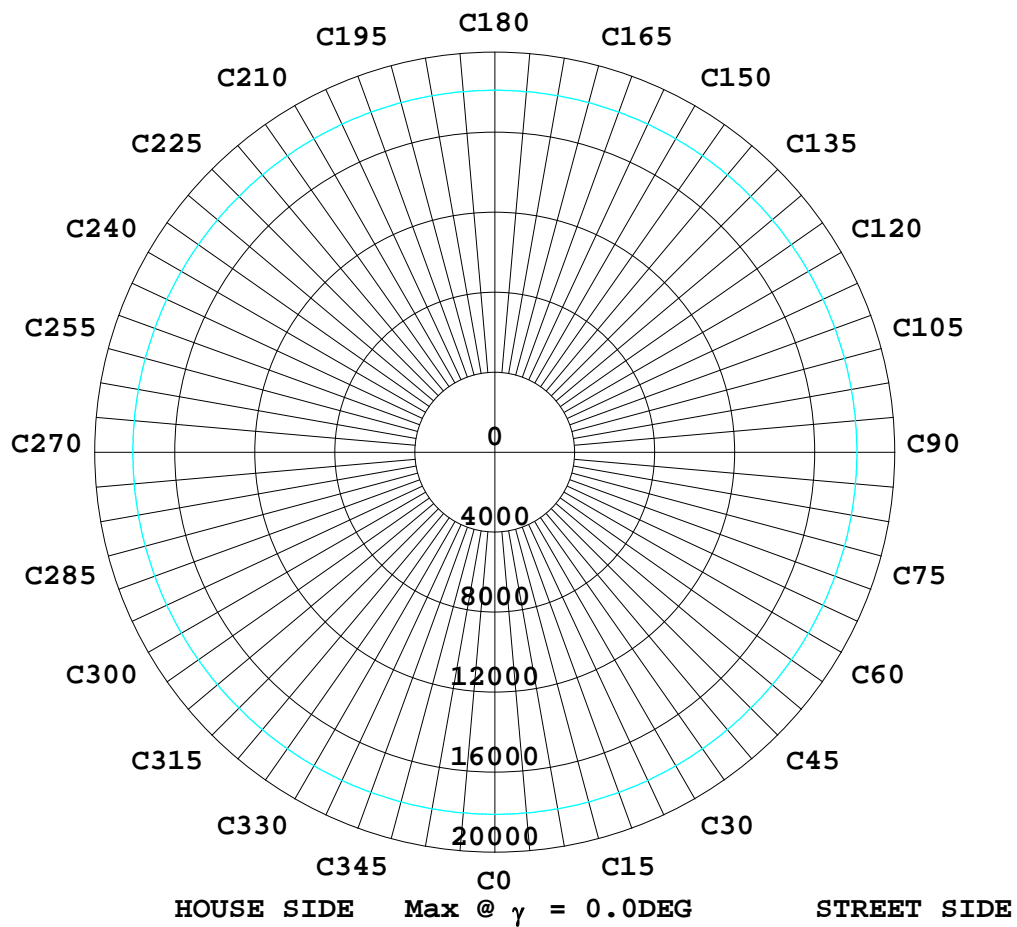
Test System:HOP00 HPG1900
Temperature:25.3DEG
Operators:
Test Date:2017年08月02日

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ISOCANDELA DIAGRAM

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| MANUFACTURER: LITIAN | Address: | |
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