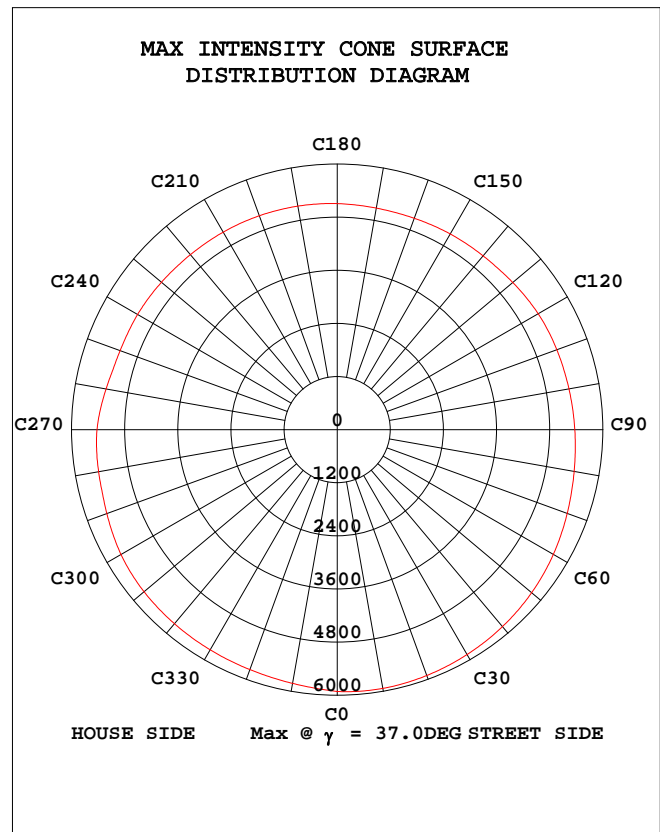
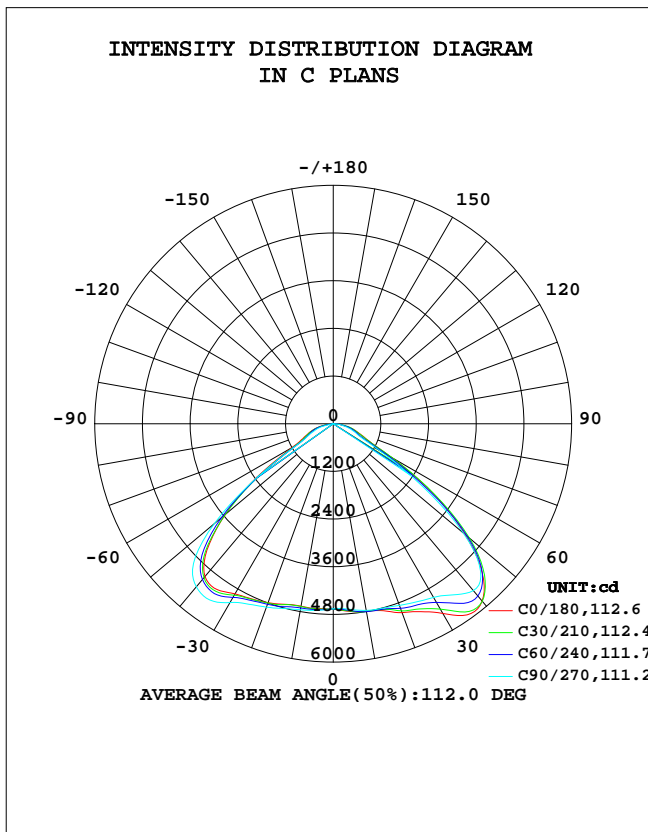


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 125.00 lm/W | | | |
|------------------|---------------|-----------------------------------|---------|-----------------------|---------|
| MODEL | ZGSM-SDD120H6 | Imax(cd) | 5926 | η street_up(%) | 0.0 |
| NOMINAL POWER(W) | 120 | LOR(%) | 100.0 | η street_down(%) | 51.1 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 15000 | η house_up(%) | 0.0 |
| NOMINAL FLUX(lm) | 15000 | MAXIMUM @(C, γ) | 15,37.0 | η house_down(%) | 48.9 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | 76 FLASHAREA(m2) | 0.05000 |
| TEST VOLTAGE(V) | 220.1 | η down(%) | 100.0 | SLI | 21.253 |

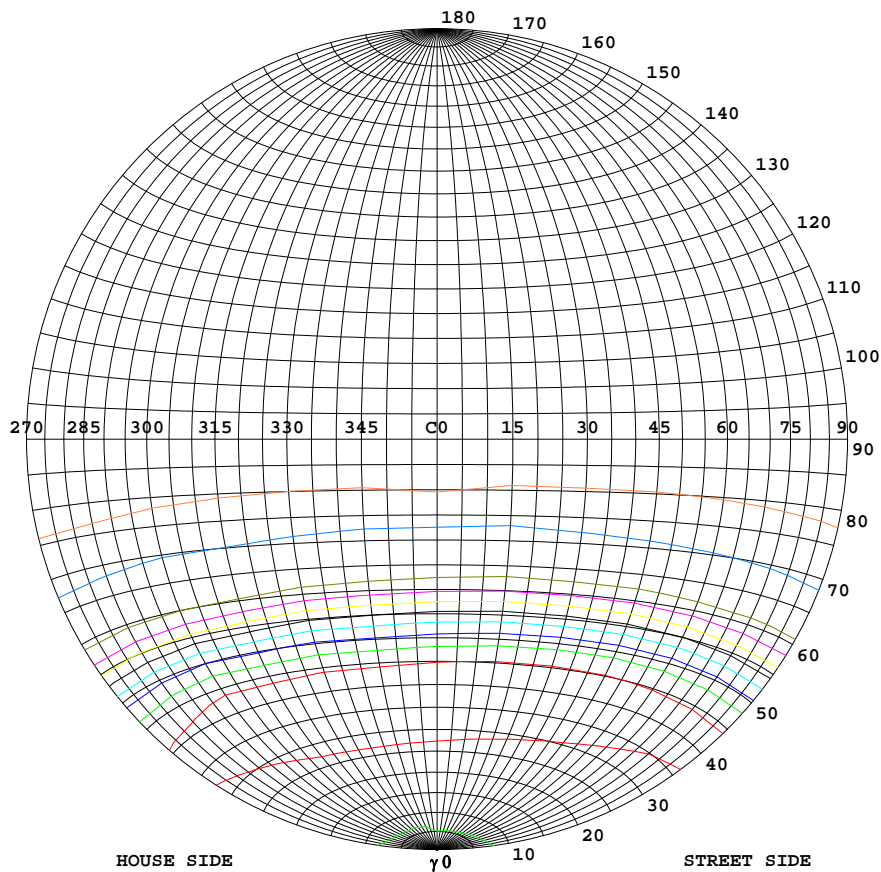


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |



Classification:

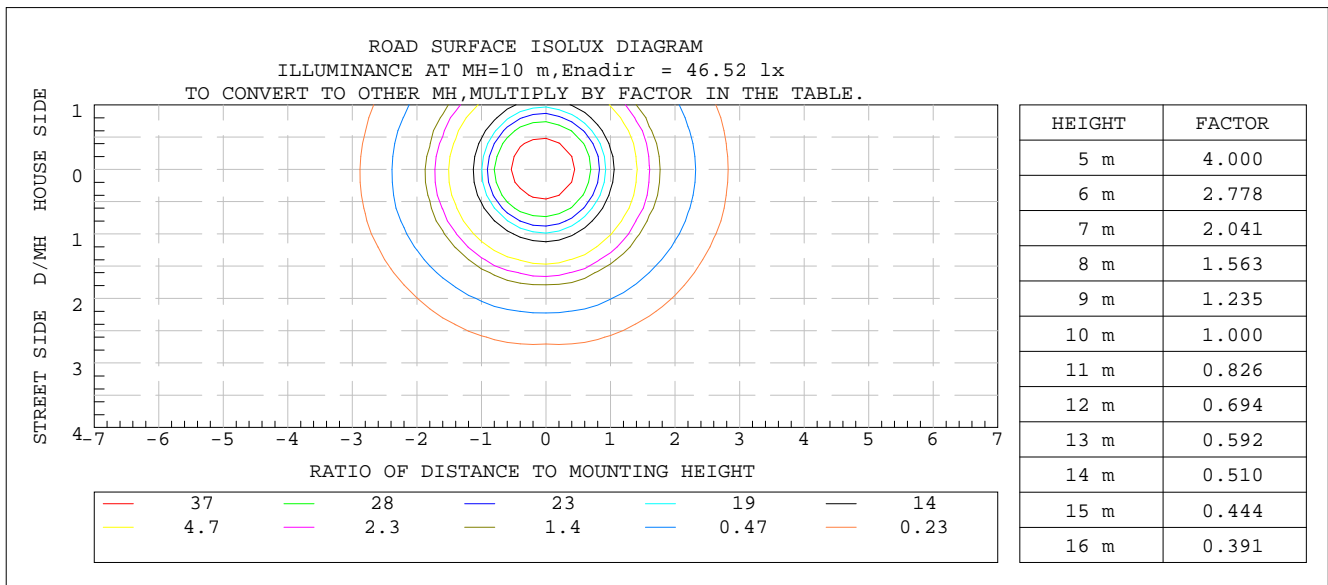
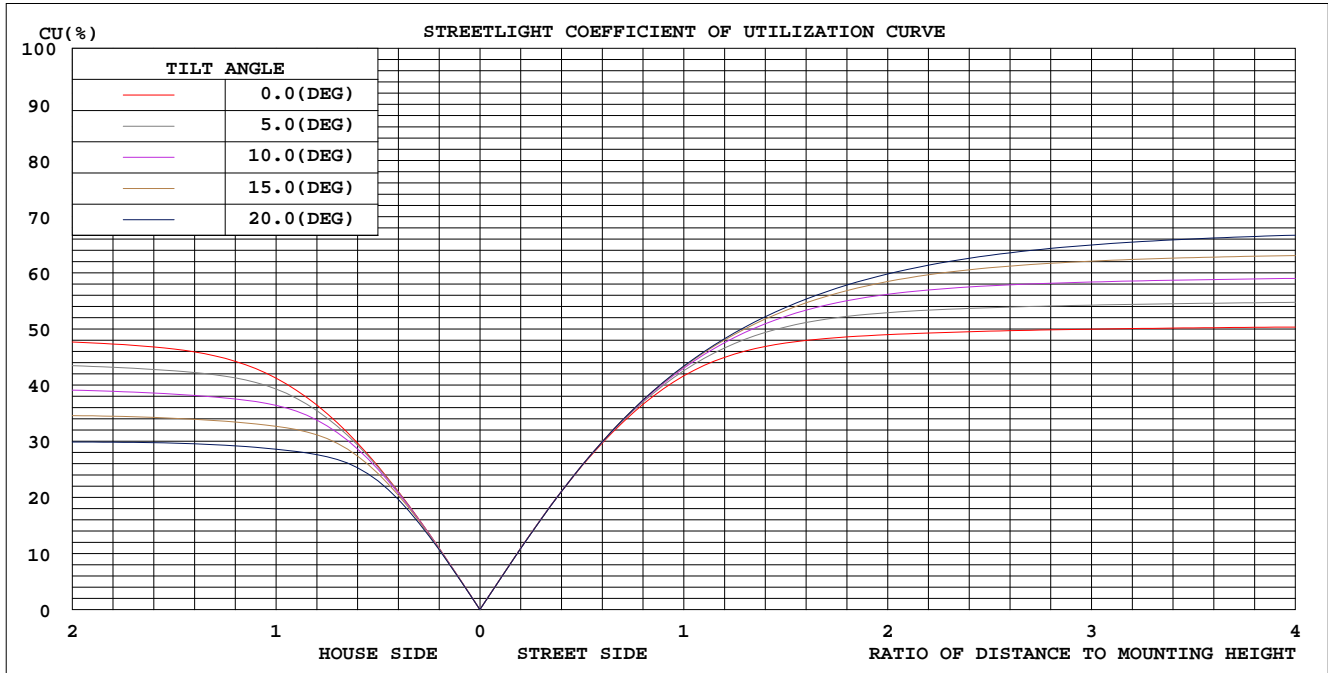
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Full cut-off
 CIE:Full cut-off
 Max.At80:22.60cd/klm
 Max.At90:0cd/klm
 Max.80-90:22.60cd/klm

| ISOCANDELA DIAGRAM | |
|--------------------|------|
| UNIT | cd |
| Imax=100% | 5926 |
| 90% | 5334 |
| 80% | 4741 |
| 70% | 4148 |
| 60% | 3556 |
| 50% | 2963 |
| 40% | 2371 |
| 30% | 1778 |
| 20% | 1185 |
| 10% | 593 |
| 5% | 296 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |

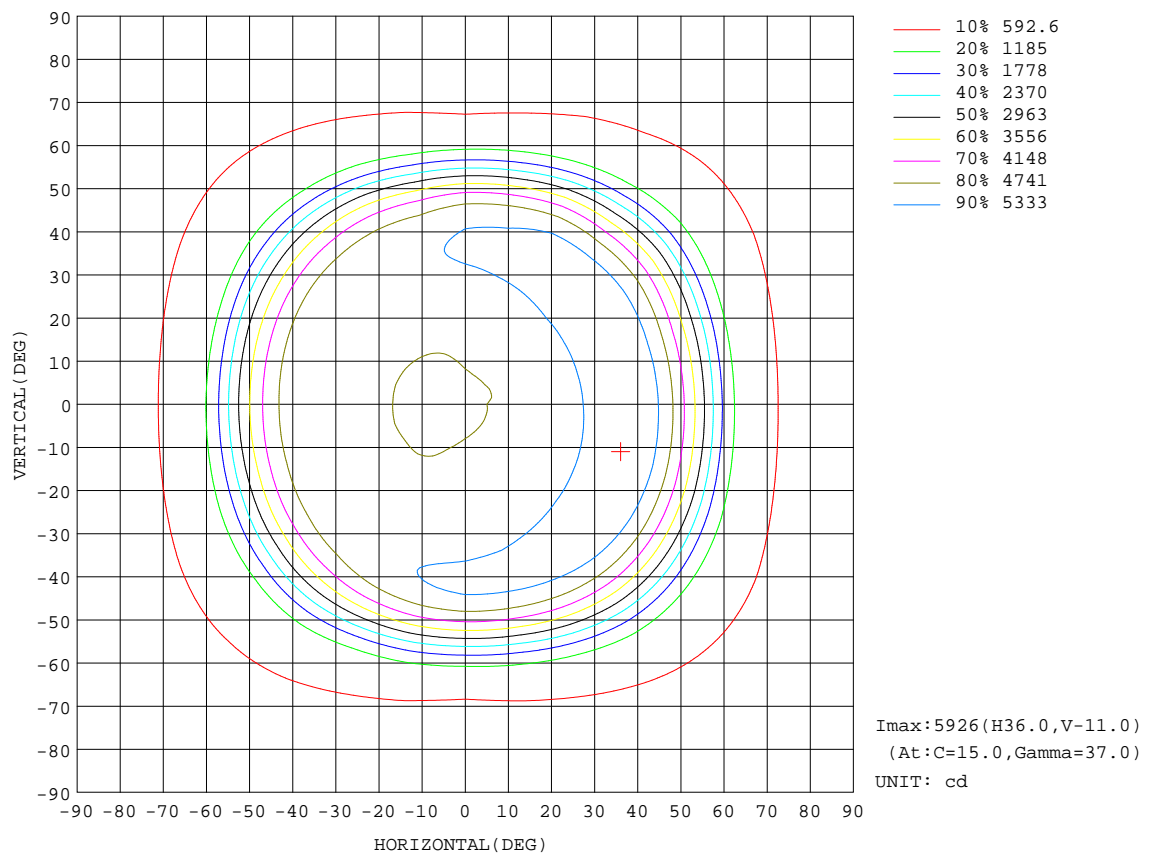
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | Φ lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------------|
| 10 | 4790 | 4804 | 4771 | 4693 | 4664 | 4689 | 4754 | 4778 | 0- 10 | 449.9 | 449.9 | 3,3 |
| 20 | 5059 | 4974 | 4866 | 4802 | 4792 | 4821 | 4911 | 5007 | 10- 20 | 1364 | 1814 | 12.1,12.1 |
| 30 | 5512 | 5304 | 5048 | 4959 | 4944 | 5027 | 5195 | 5511 | 20- 30 | 2328 | 4142 | 27.6,27.6 |
| 40 | 5829 | 5757 | 5482 | 5107 | 5022 | 5071 | 5361 | 5622 | 30- 40 | 3373 | 7515 | 50.1,50.1 |
| 50 | 4331 | 4467 | 4274 | 3749 | 3547 | 3580 | 3900 | 4082 | 40- 50 | 3760 | 11275 | 75.2,75.2 |
| 60 | 1671 | 1663 | 1340 | 1238 | 1206 | 1034 | 1009 | 1247 | 50- 60 | 2323 | 13598 | 90.7,90.7 |
| 70 | 680.1 | 634.9 | 536.2 | 607.7 | 631.5 | 593.4 | 500.2 | 595.2 | 60- 70 | 825.4 | 14423 | 96.2,96.2 |
| 80 | 273.9 | 311.9 | 229.3 | 273.8 | 241.0 | 241.9 | 42.82 | 263.9 | 70- 80 | 462.2 | 14885 | 99.2,99.2 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 114.1 | 15000 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

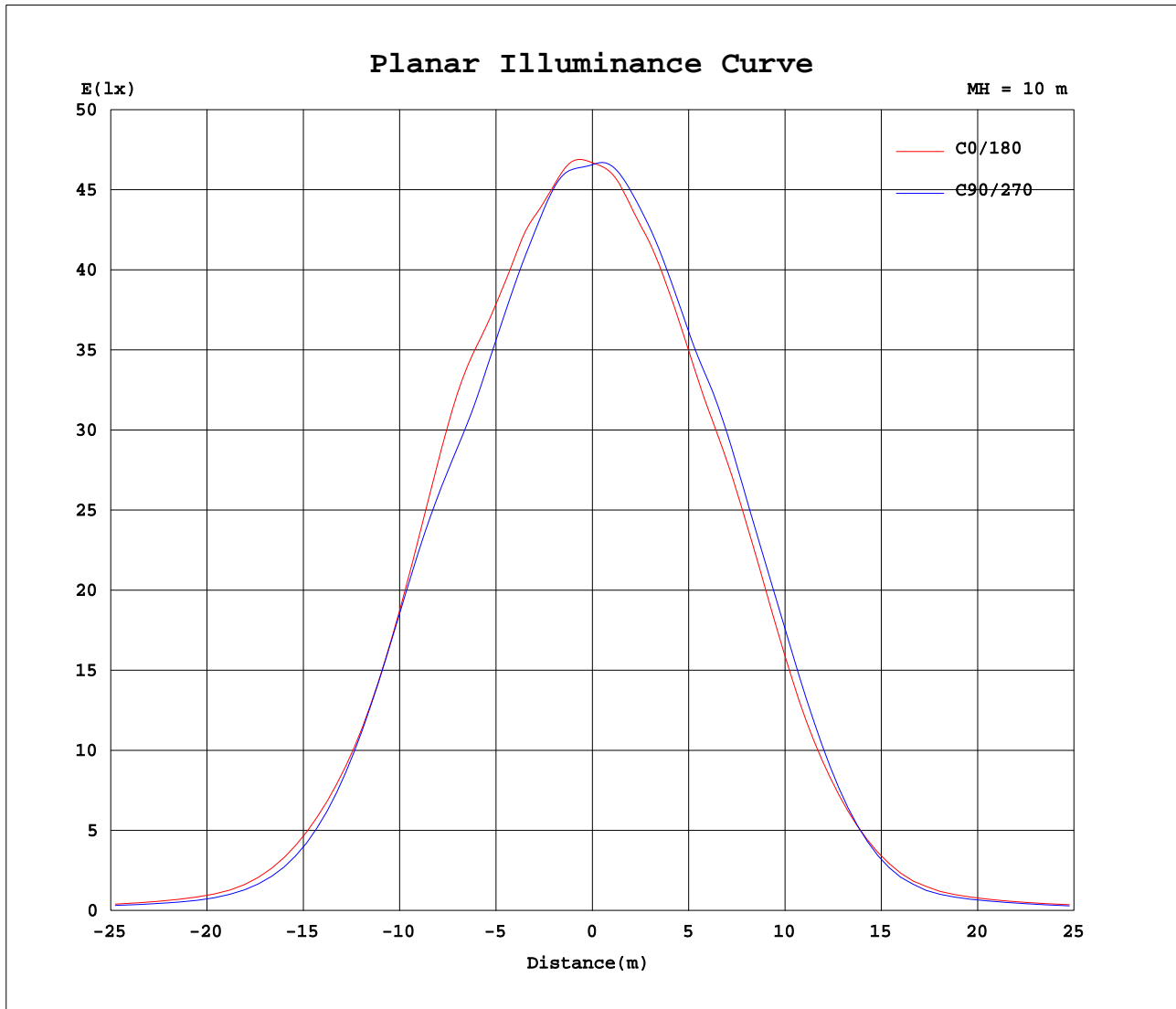
| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

Planar Illuminance Curve

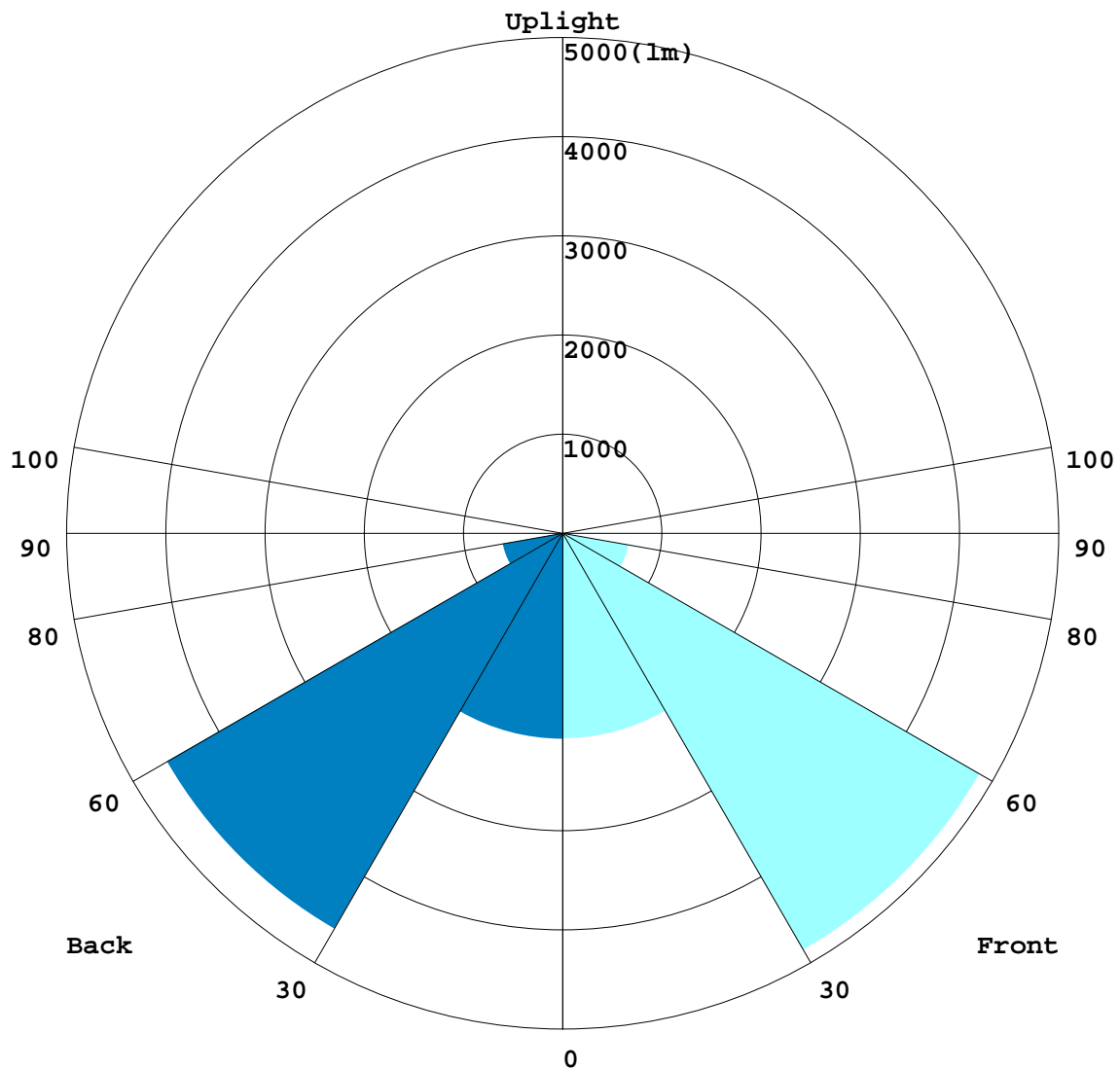


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.480m [K=1.0000]
 Remarks:

LCS REPORT

| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks:

BUG REPORT

| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 2068.3 | 13.8 |
| FM - Front-Medium(30-60) | 4851.7 | 32.3 |
| FH - Front-High(60-80) | 675.41 | 4.5 |
| FVH - Front-Very High(80-90) | 67.694 | 0.5 |
| Total Forward Light | 7663.1 | 51.1 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 2073.6 | 13.8 |
| BM - Back-Medium(30-60) | 4604.4 | 30.7 |
| BH - Back-High(60-80) | 612.14 | 4.1 |
| BVH - Back-Very High(80-90) | 46.44 | 0.3 |
| Total Back Light | 7336.5 | 48.9 |

| | | |
|----------------------------|---|-----|
| UL - Uplight-Low(90-100) | 0 | 0.0 |
| UH - Uplight-High(100-180) | 0 | 0.0 |
| Total Up Light | 0 | 0.0 |

| | |
|---------------------------|----------|
| BUG(Back,Up,Glare) Rating | B3-U0-G1 |
|---------------------------|----------|

| Zone | Downward Lumens | Upward Lumens | Total Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side | 7336.5 | 0 | 7336.5 |
| Street Side | 7663.1 | 0 | 7663.1 |

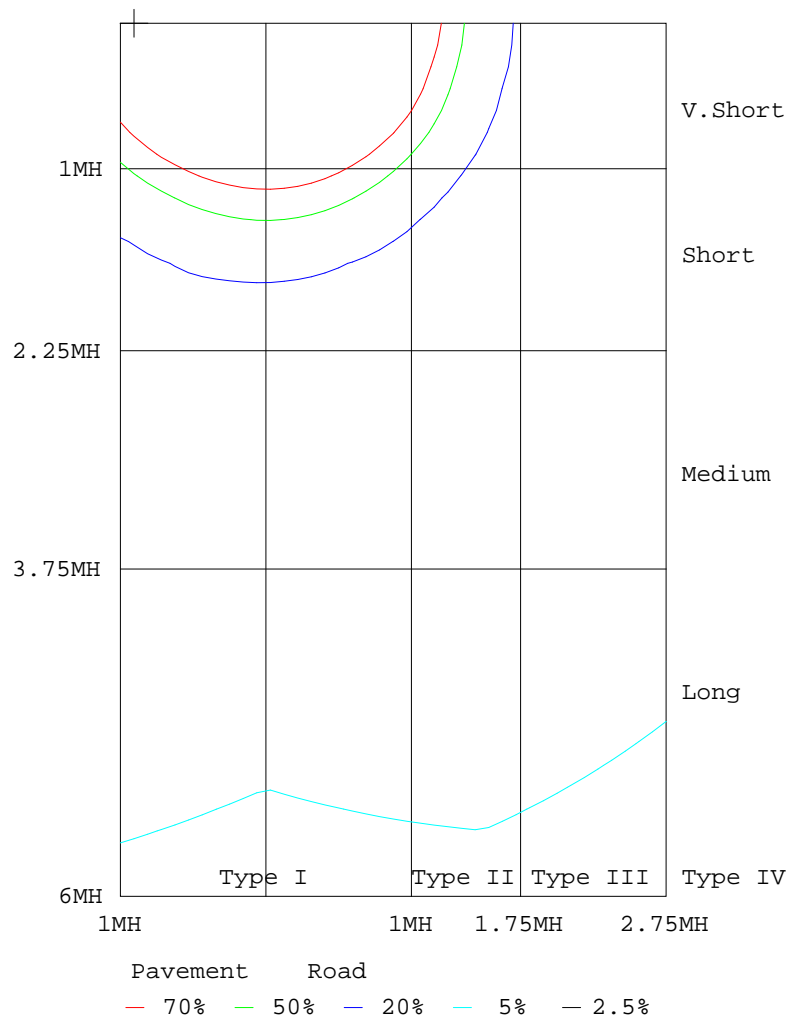
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

| | | |
|-------------------------|---------------------|------------------|
| NAME: LED Tunnel Lights | TYPE:5S 3030 | WEIGHT:3.5kg |
| SPEC.: | DIM.: 239*270*165mm | SERIAL No.: |
| MFR.: ZGSM | SUR.:250*144 mm | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

```