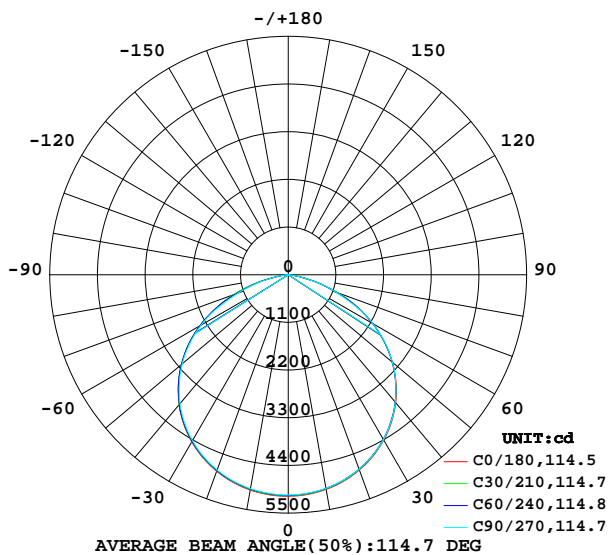
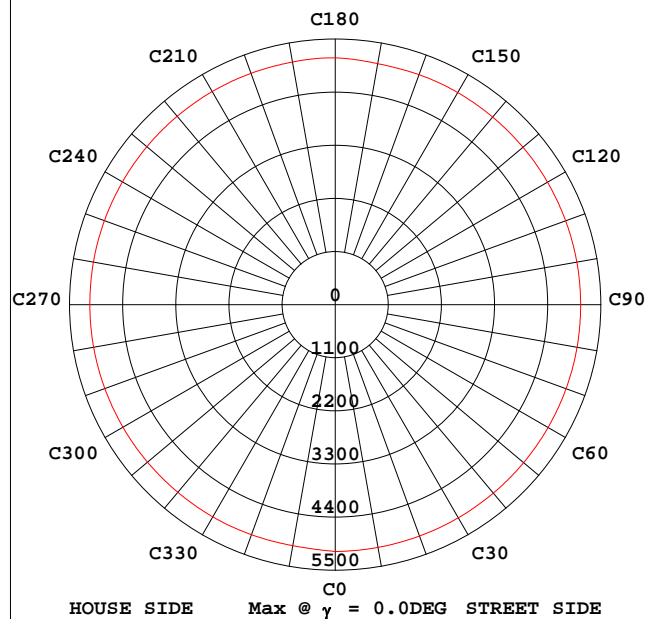


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|--------|----------------|------------------|
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 160.00 lm/W | | | |
|------------------|----------------------|-----------------------------------|-------|-----------------------|---------|
| MODEL | ZGSM-LD90LMX 5S 5050 | Imax(cd) | 5111 | η street_up(%) | 0.0 |
| NOMINAL POWER(W) | 90 | LOR(%) | 100.0 | η street_down(%) | 49.7 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 14400 | η house_up(%) | 0.0 |
| NOMINAL FLUX(lm) | 14400 | MAXIMUM @(C, γ) | 0,0.0 | η house_down(%) | 50.4 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | 76 FLASHAREA(m2) | 0.05000 |
| TEST VOLTAGE(V) | 220.1 | η down(%) | 100.0 | SLI | 21.596 |

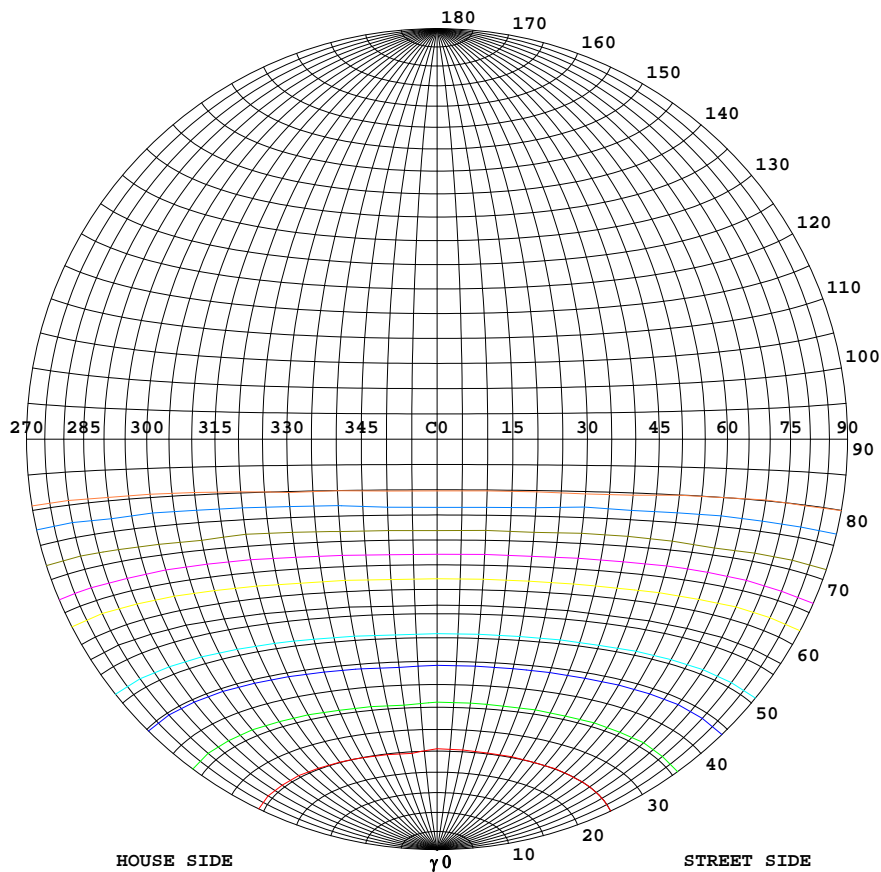
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.25

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: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |



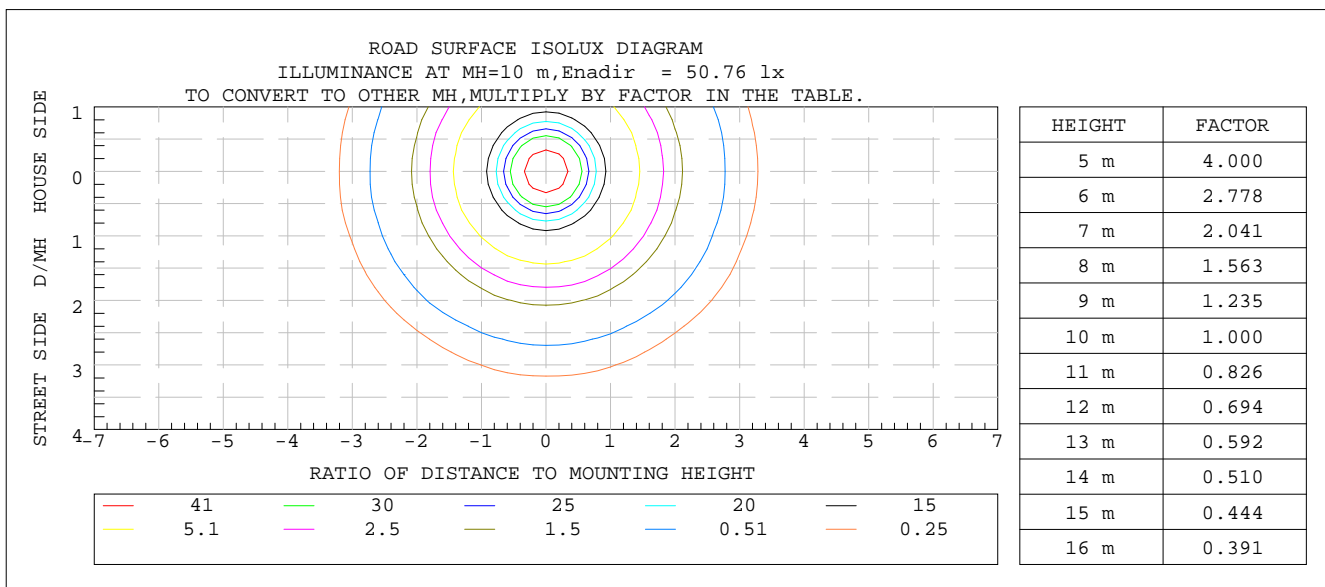
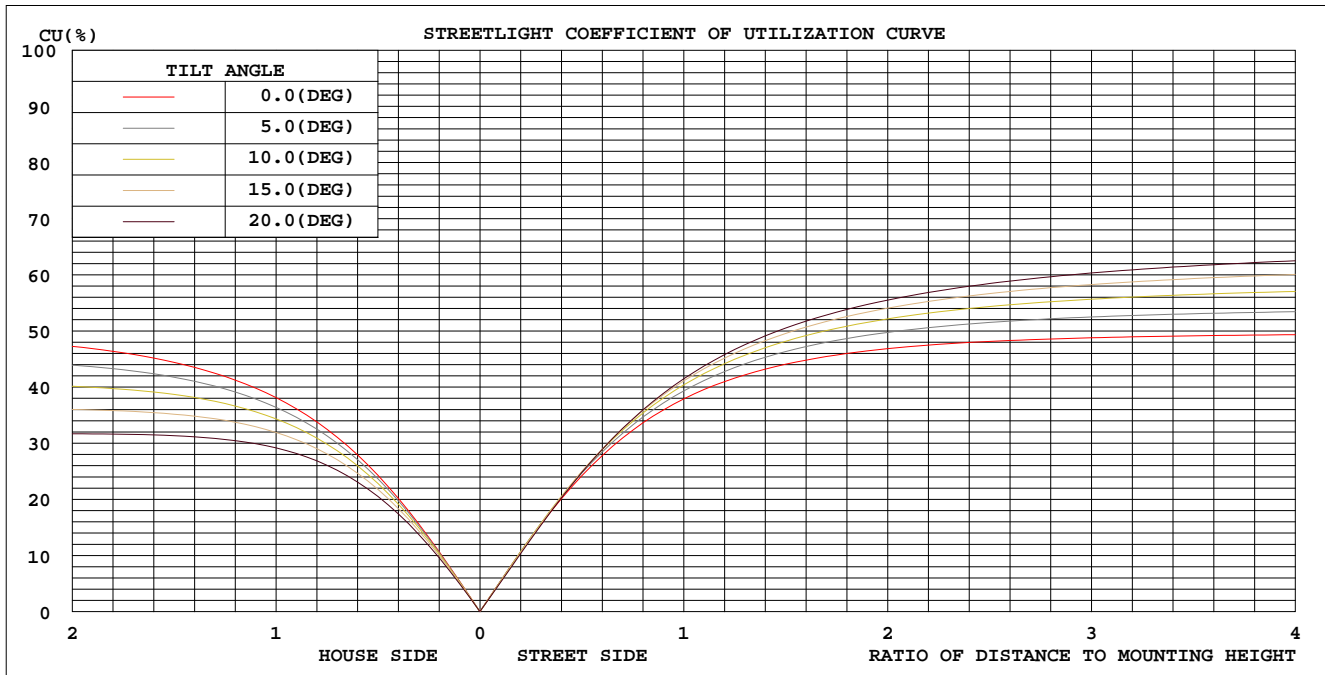
Classification:

IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:22.74cd/klm
 Max.At90:0.3329cd/klm
 Max.80-90:22.74cd/klm

| ISOCANDELA DIAGRAM | |
|--------------------|------|
| UNIT | cd |
| Imax=100% | 5111 |
| 90% | 4600 |
| 80% | 4089 |
| 70% | 3578 |
| 60% | 3067 |
| 50% | 2555 |
| 40% | 2044 |
| 30% | 1533 |
| 20% | 1022 |
| 10% | 511 |
| 5% | 256 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017.11.25

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: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.11.25

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: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |

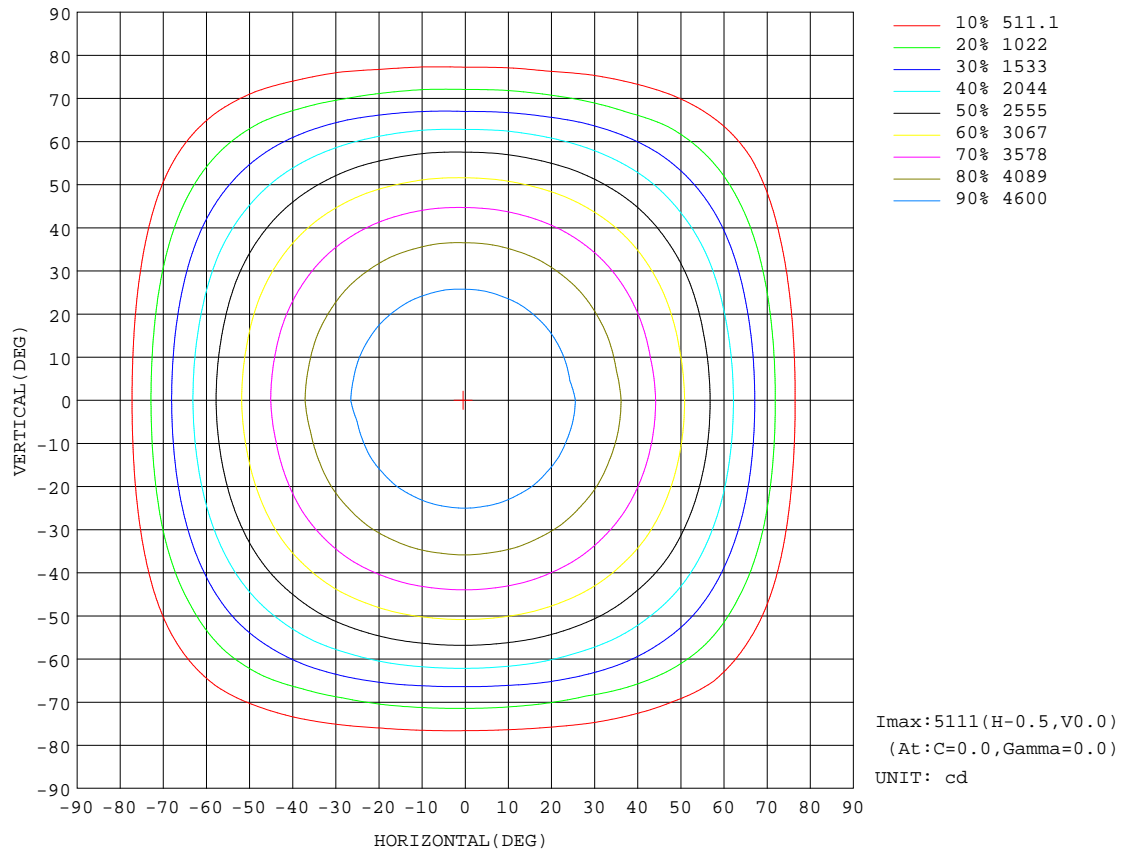
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | Φ lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------------|
| 10 | 5029 | 5009 | 5002 | 5001 | 5045 | 5028 | 5014 | 4999 | 0- 10 | 481.8 | 481.8 | 3.35,3.35 |
| 20 | 4796 | 4776 | 4774 | 4780 | 4827 | 4812 | 4794 | 4775 | 10- 20 | 1389 | 1871 | 13,13 |
| 30 | 4406 | 4388 | 4390 | 4404 | 4454 | 4442 | 4420 | 4395 | 20- 30 | 2129 | 4000 | 27.8,27.8 |
| 40 | 3858 | 3837 | 3840 | 3868 | 3917 | 3912 | 3883 | 3856 | 30- 40 | 2602 | 6601 | 45.8,45.8 |
| 50 | 3138 | 3124 | 3136 | 3172 | 3215 | 3221 | 3191 | 3154 | 40- 50 | 2727 | 9328 | 64.8,64.8 |
| 60 | 2255 | 2239 | 2259 | 2298 | 2346 | 2350 | 2321 | 2279 | 50- 60 | 2455 | 11784 | 81.8,81.8 |
| 70 | 1217 | 1221 | 1167 | 1273 | 1321 | 1339 | 1224 | 1248 | 60- 70 | 1762 | 13546 | 94.1,94.1 |
| 80 | 239.9 | 238.4 | 254.1 | 293.9 | 282.3 | 327.1 | 297.9 | 279.2 | 70- 80 | 775.4 | 14321 | 99.5,99.5 |
| 90 | 4.139 | 4.110 | 3.801 | 3.620 | 4.234 | 4.182 | 4.300 | 4.600 | 80- 90 | 79.15 | 14400 | 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: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.25

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

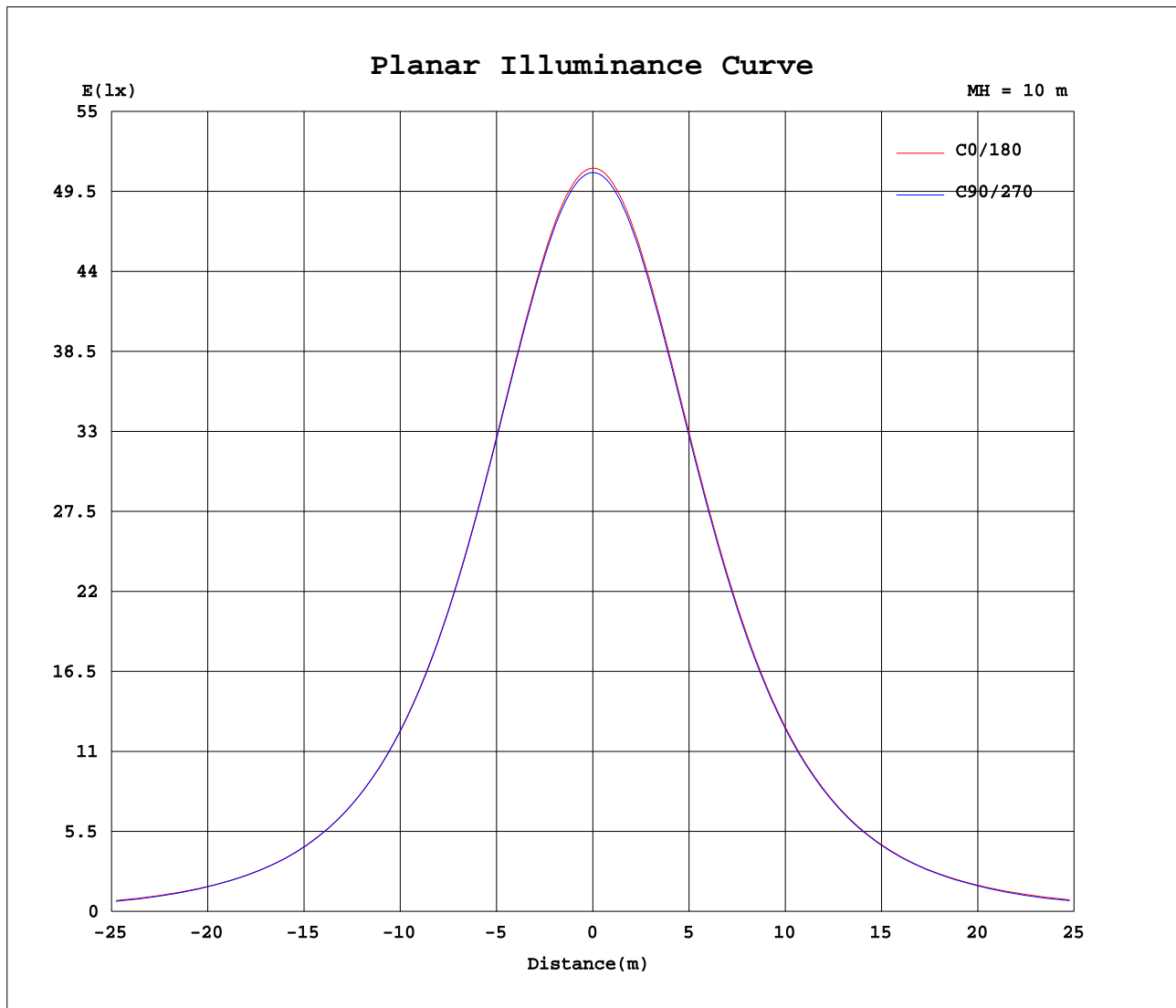
| | | |
|--------|----------------|------------------|
| NAME: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.25

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



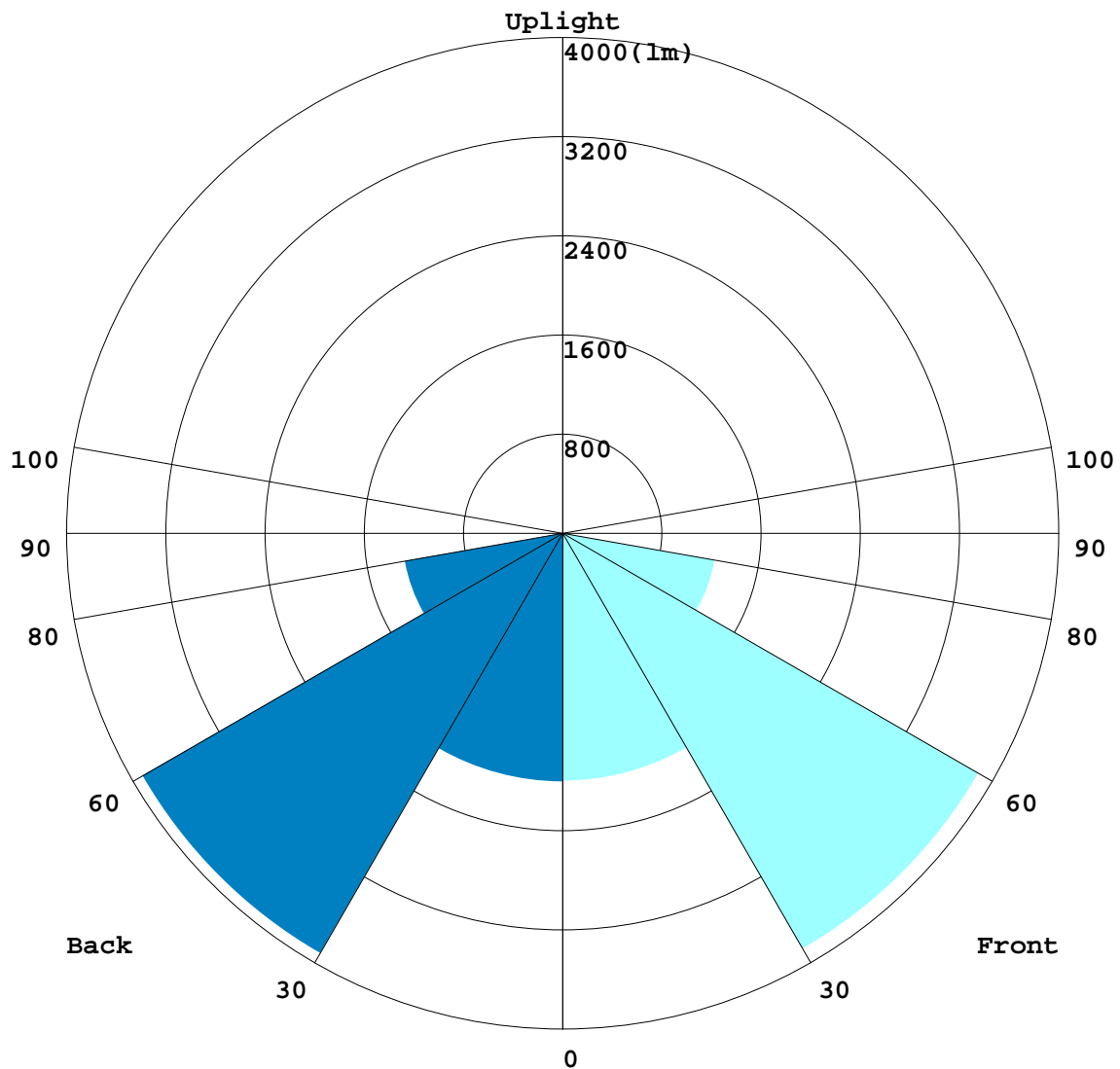
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.11.25

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: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.25

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: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 1996.6 | 13.9 |
| FM - Front-Medium(30-60) | 3871.1 | 26.9 |
| FH - Front-High(60-80) | 1245.8 | 8.7 |
| FVH - Front-Very High(80-90) | 36.104 | 0.3 |
| Total Forward Light | 7149.6 | 49.6 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 2003.1 | 13.9 |
| BM - Back-Medium(30-60) | 3912.7 | 27.2 |
| BH - Back-High(60-80) | 1291.9 | 9.0 |
| BVH - Back-Very High(80-90) | 43.044 | 0.3 |
| Total Back Light | 7250.8 | 50.4 |

| | | |
|----------------------------|---|-----|
| 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 | 7250.8 | 0 | 7250.8 |
| Street Side | 7149.6 | 0 | 7149.6 |

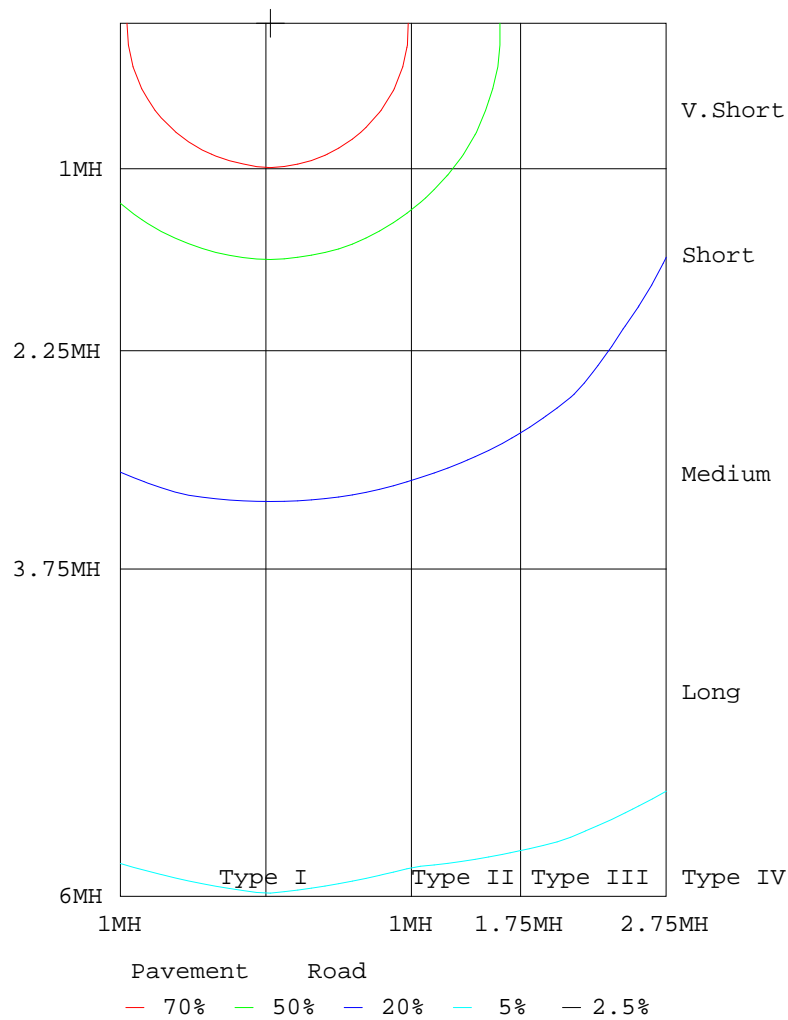
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.25

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: | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:21cm*16cm | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.25

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:

