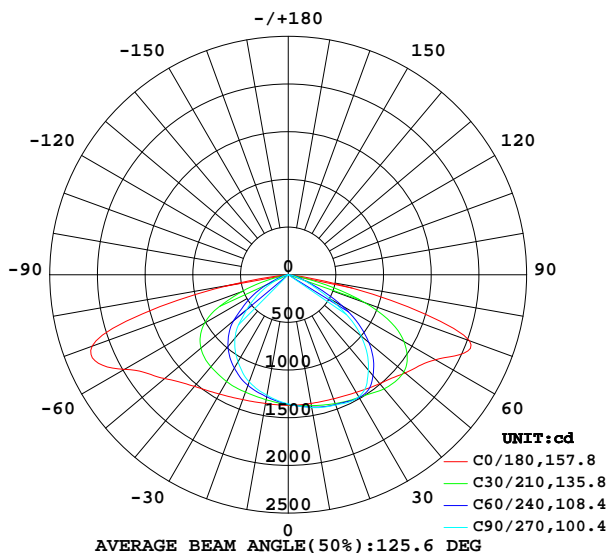
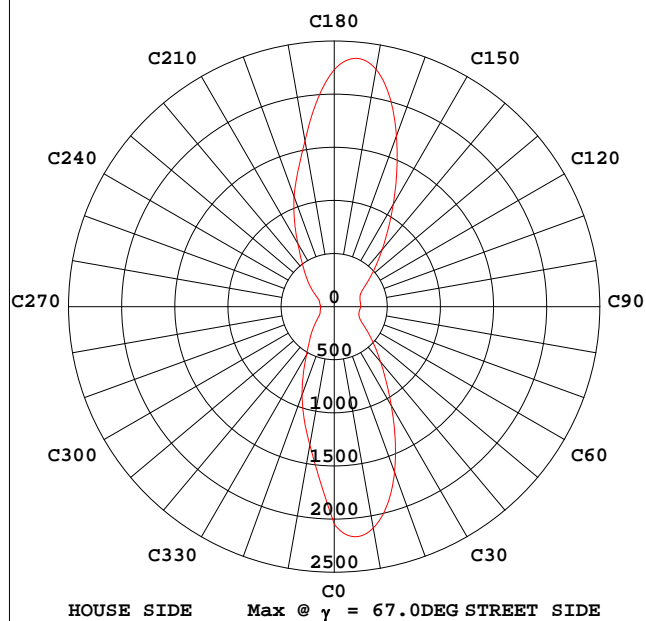


## STREETLIGHT PHOTOMETRIC TEST REPORT

|                         |                  |                  |
|-------------------------|------------------|------------------|
| NAME: LED STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | Shielding Angle: |

| DATA OF LAMP     |                     | PHOTOMETRIC DATA Eff: 145.63 lm/W |          |                  |         |
|------------------|---------------------|-----------------------------------|----------|------------------|---------|
| MODEL            | ZGSM-LD35KS 5050 2M | I <sub>max</sub> (cd)             | 2268     | η street_up(%)   | 0.0     |
| NOMINAL POWER(W) | 35                  | LOR(%)                            | 100.4    | η street_down(%) | 57.5    |
| RATED VOLTAGE(V) | 220                 | TOTAL FLUX(lm)                    | 5097     | η house_up(%)    | 0.0     |
| NOMINAL FLUX(lm) | 5075                | MAXIMUM @ (C, γ )                 | 170,67.0 | η house_down(%)  | 42.9    |
| LAMPS INSIDE     | 1                   | η up(%)                           | 0.0      | 76 FLASHAREA(m2) | 0.05000 |
| TEST VOLTAGE(V)  | 220.1               | η down(%)                         | 100.4    | SLI              | 22.365  |

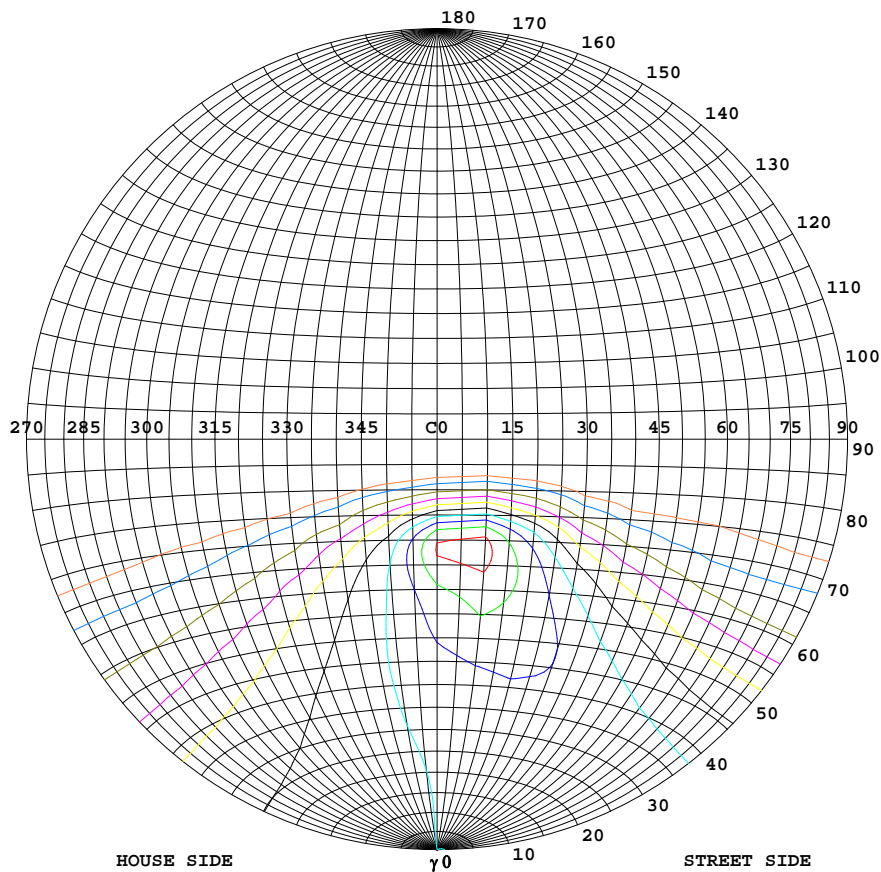
INTENSITY DISTRIBUTION DIAGRAM  
IN C PLANSMAX INTENSITY CONE SURFACE  
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017

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 STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | Shielding Angle: |



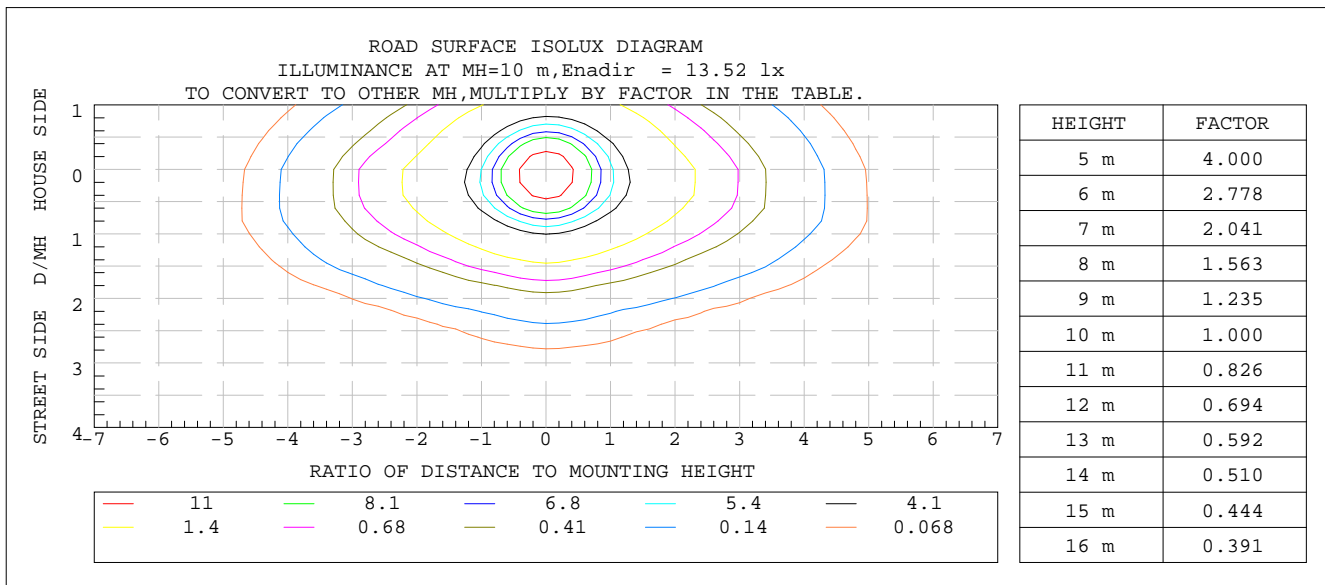
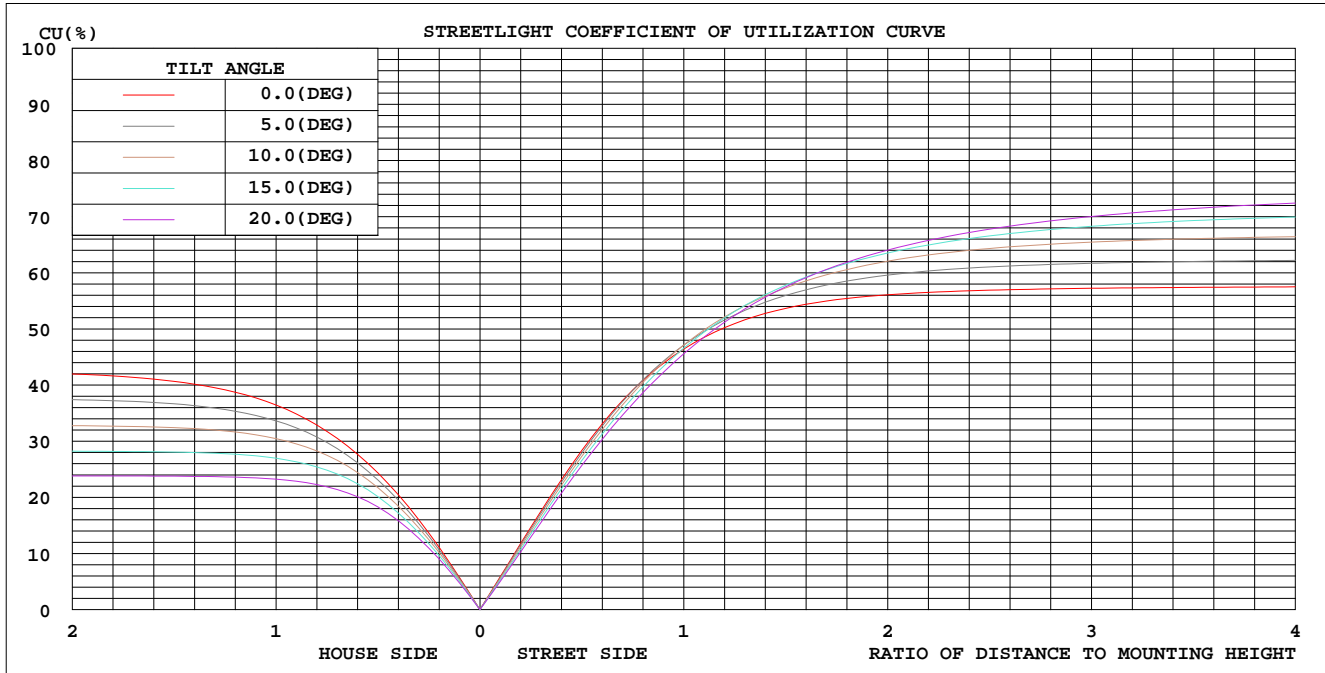
Classification:

IES:Type II - Medium  
 CIE:Narrow - Intermediate  
 IES:Semi cut-off  
 CIE:Non-cut-off  
 Max.At80:135.2cd/klm  
 Max.At90:0.8903cd/klm  
 Max.80-90:135.2cd/klm

| ISOCANDELA DIAGRAM |      |
|--------------------|------|
| UNIT               | cd   |
| Imax=100%          | 2268 |
| 90%                | 2041 |
| 80%                | 1814 |
| 70%                | 1588 |
| 60%                | 1361 |
| 50%                | 1134 |
| 40%                | 907  |
| 30%                | 680  |
| 20%                | 454  |
| 10%                | 227  |
| 5%                 | 113  |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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 STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | Shielding Angle: |

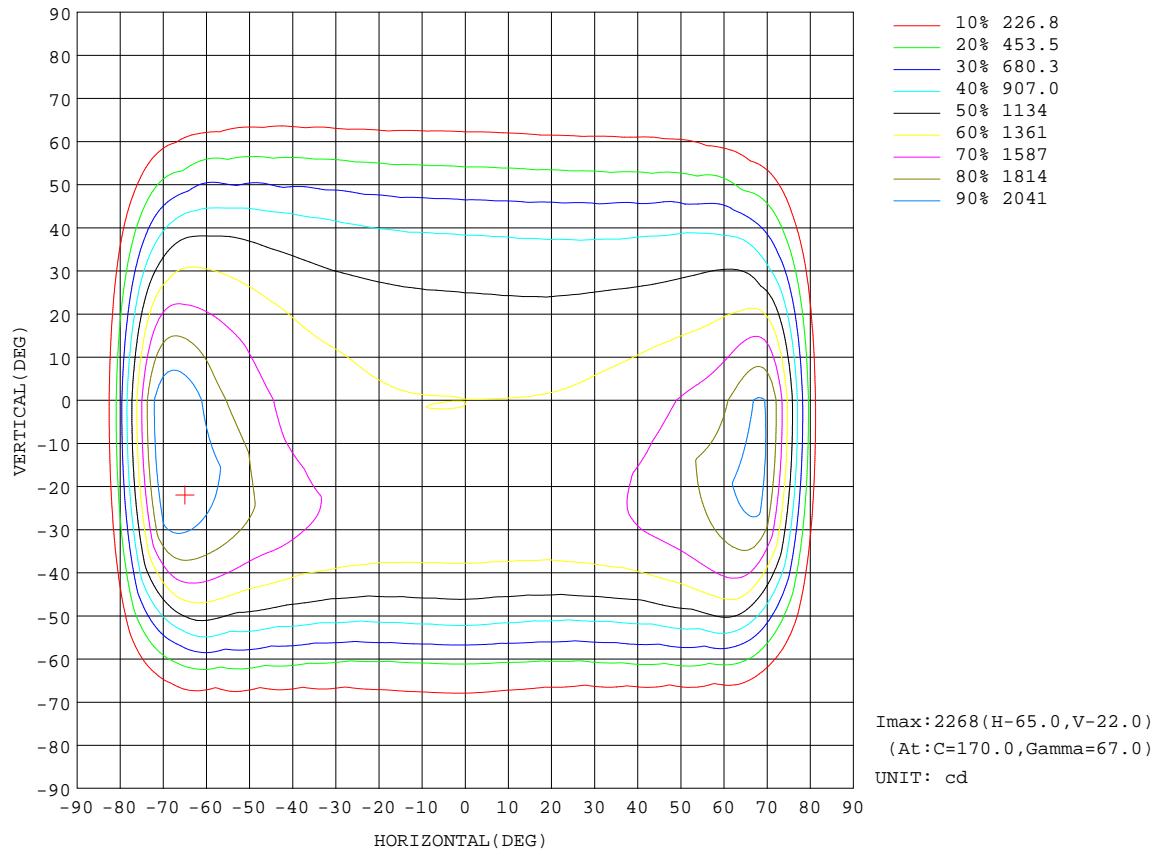
| $\gamma$ | C0                    | C45   | C90    | C135  | C180  | C225  | C270   | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum,lamp |
|----------|-----------------------|-------|--------|-------|-------|-------|--------|-------|----------|-------------|--------------|-----------------|
| 10       | 1371                  | 1403  | 1414   | 1395  | 1371  | 1315  | 1284   | 1303  | 0- 10    | 129.4       | 129.4        | 2.54,2.55       |
| 20       | 1385                  | 1447  | 1453   | 1448  | 1394  | 1271  | 1196   | 1252  | 10- 20   | 383.9       | 513.2        | 10.1,10.1       |
| 30       | 1424                  | 1488  | 1479   | 1509  | 1445  | 1203  | 1055   | 1160  | 20- 30   | 624.9       | 1138         | 22.3,22.4       |
| 40       | 1491                  | 1489  | 1309   | 1512  | 1529  | 1110  | 869.4  | 1037  | 30- 40   | 829.9       | 1968         | 38.6,38.8       |
| 50       | 1602                  | 1315  | 996.0  | 1343  | 1694  | 952.1 | 567.9  | 845.7 | 40- 50   | 952.9       | 2921         | 57.3,57.6       |
| 60       | 1783                  | 949.3 | 510.3  | 975.1 | 1985  | 636.2 | 290.0  | 518.2 | 50- 60   | 951.4       | 3872         | 76,76.3         |
| 70       | 2022                  | 384.2 | 183.1  | 399.9 | 2188  | 248.9 | 78.61  | 186.1 | 60- 70   | 793.6       | 4666         | 91.5,91.9       |
| 80       | 383.4                 | 53.22 | 37.87  | 63.17 | 610.3 | 24.18 | 10.18  | 17.60 | 70- 80   | 400.9       | 5067         | 99.4,99.8       |
| 90       | 4.203                 | 1.898 | 0.6383 | 2.009 | 4.254 | 1.950 | 0.8986 | 2.144 | 80- 90   | 30.30       | 5097         | 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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

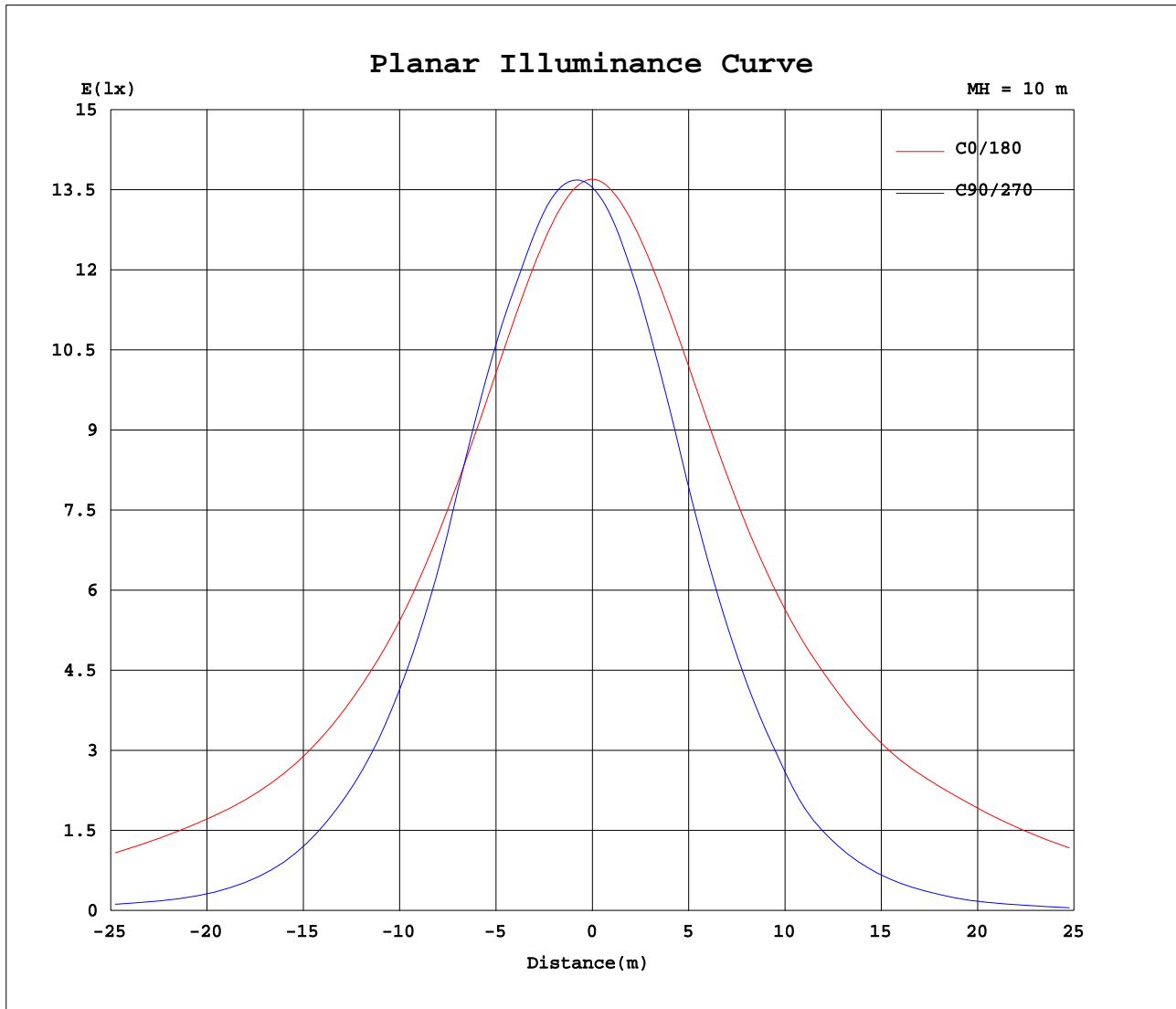
|                         |                  |                  |
|-------------------------|------------------|------------------|
| NAME: LED STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2017

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



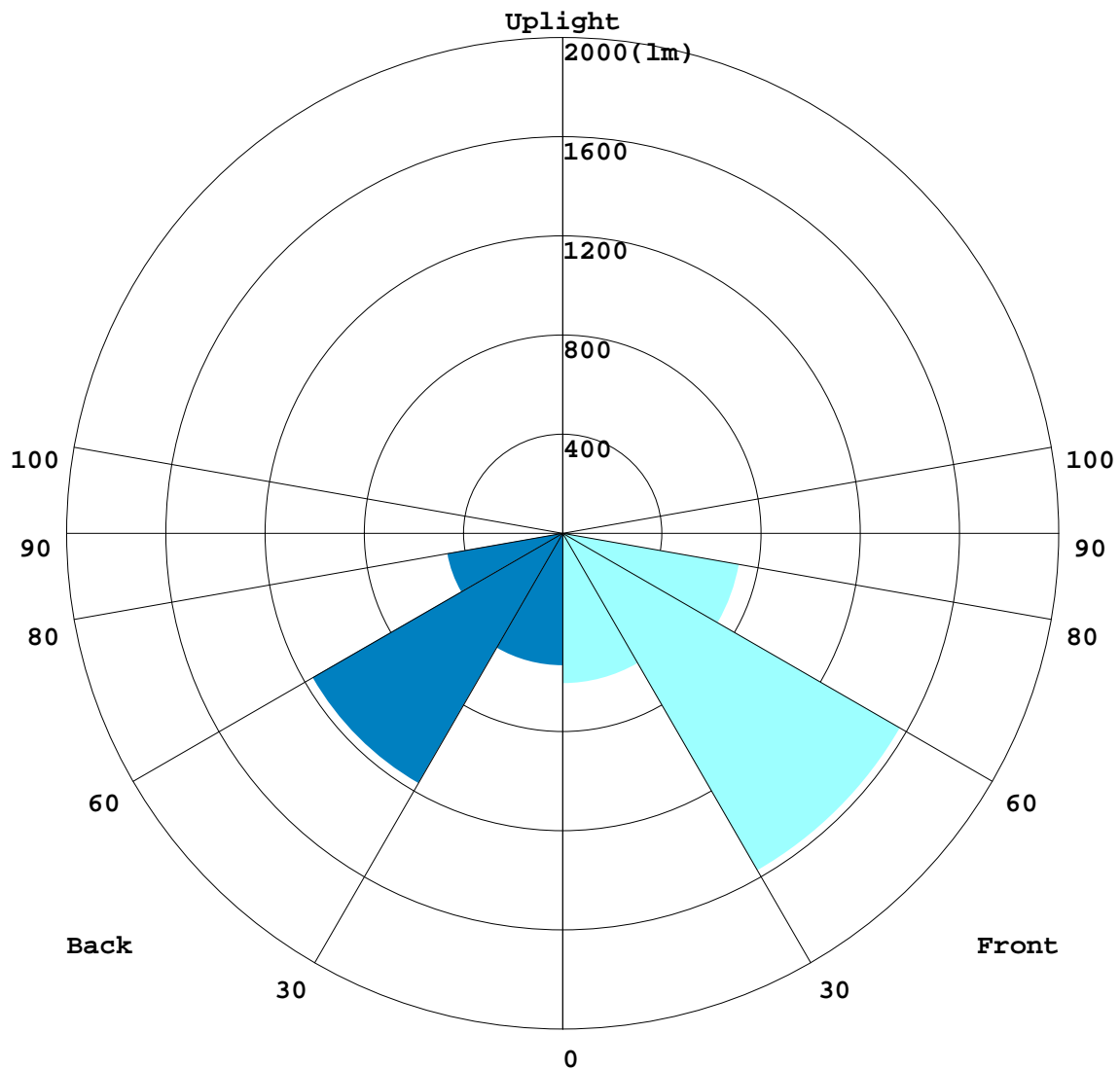
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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 STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | 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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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 STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | Shielding Angle: |

#### IESNA Luminaire Flux Distribution Table:

| Zone                         | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30)         | 605.21 | 11.9        |
| FM - Front-Medium(30-60)     | 1570.3 | 30.8        |
| FH - Front-High(60-80)       | 722.02 | 14.2        |
| FVH - Front-Very High(80-90) | 20.022 | 0.4         |
| Total Forward Light          | 2917.5 | 57.2        |

|                             |        |      |
|-----------------------------|--------|------|
| BL - Back-Low(0-30)         | 532.95 | 10.5 |
| BM - Back-Medium(30-60)     | 1164   | 22.8 |
| BH - Back-High(60-80)       | 472.44 | 9.3  |
| BVH - Back-Very High(80-90) | 10.278 | 0.2  |
| Total Back Light            | 2179.7 | 42.8 |

|                            |   |     |
|----------------------------|---|-----|
| 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 | B2-U0-G1 |
|---------------------------|----------|

| Zone        | Downward<br>Lumens | Upward<br>Lumens | Total<br>Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side  | 2179.7             | 0                | 2179.7          |
| Street Side | 2917.5             | 0                | 2917.5          |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017

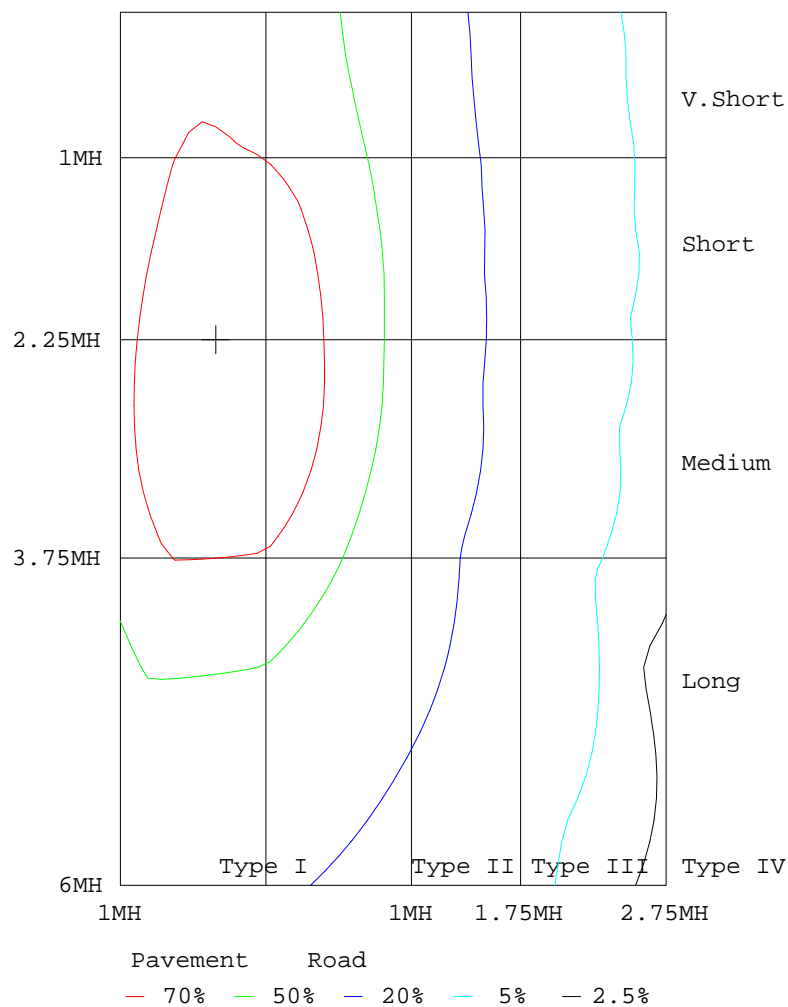
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

|                         |                  |                  |
|-------------------------|------------------|------------------|
| NAME: LED STREET LIGHTS | TYPE:            | WEIGHT:          |
| SPEC.:                  | DIM.:            | SERIAL No.:      |
| MFR.:                   | SUR.:175cm*140cm | 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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.480m [K=1.0000]  
Remarks:



