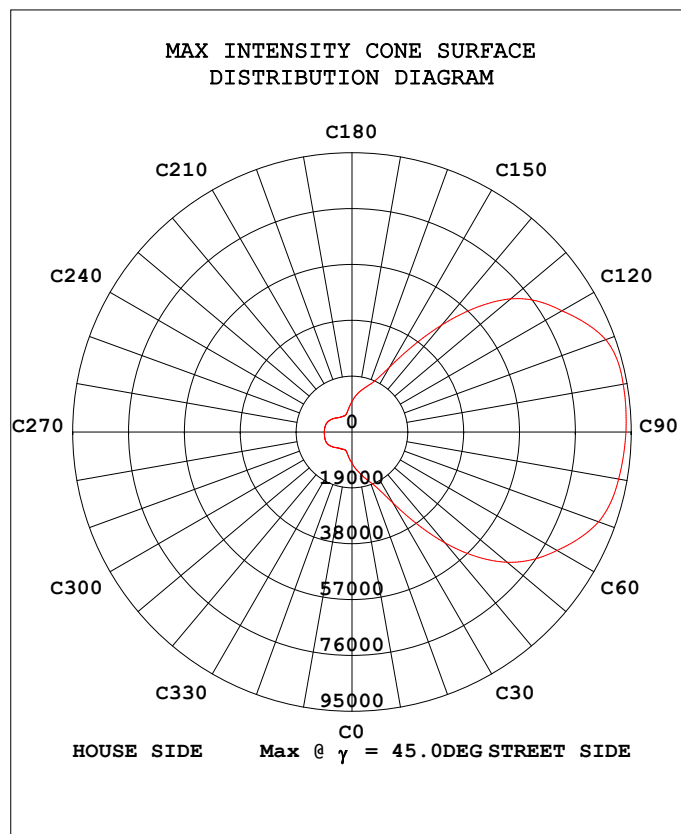
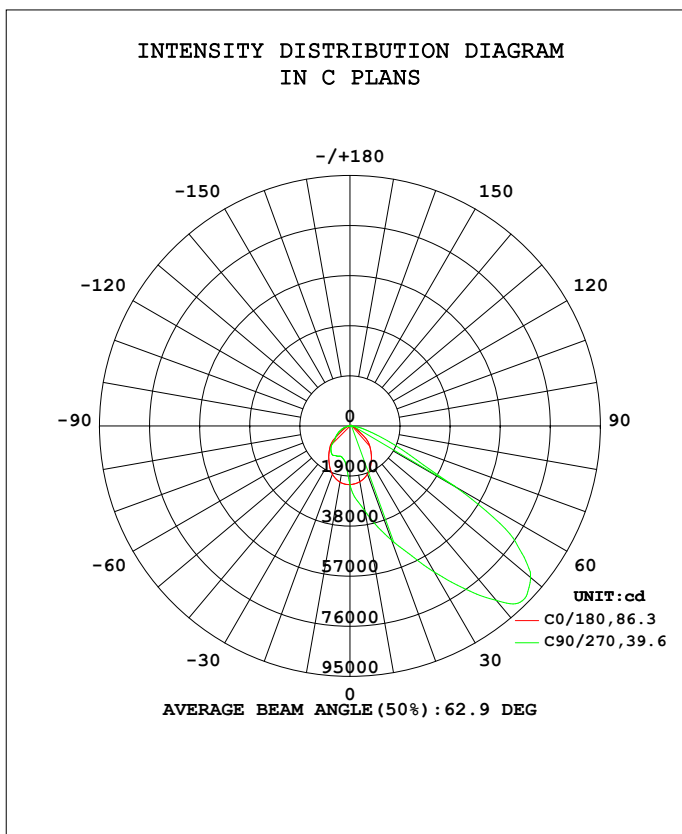


## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT PHOTOMETRIC TEST REPORT

|  |       |                  |
|--|-------|------------------|
| Test:U:230.0V I:2.665A P:600.0W PF:0.979 Freq:50.00Hz  |       |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:91529.3x1 lm |       |                  |
| NAME: SP04-600-5770-F04001Z                            | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

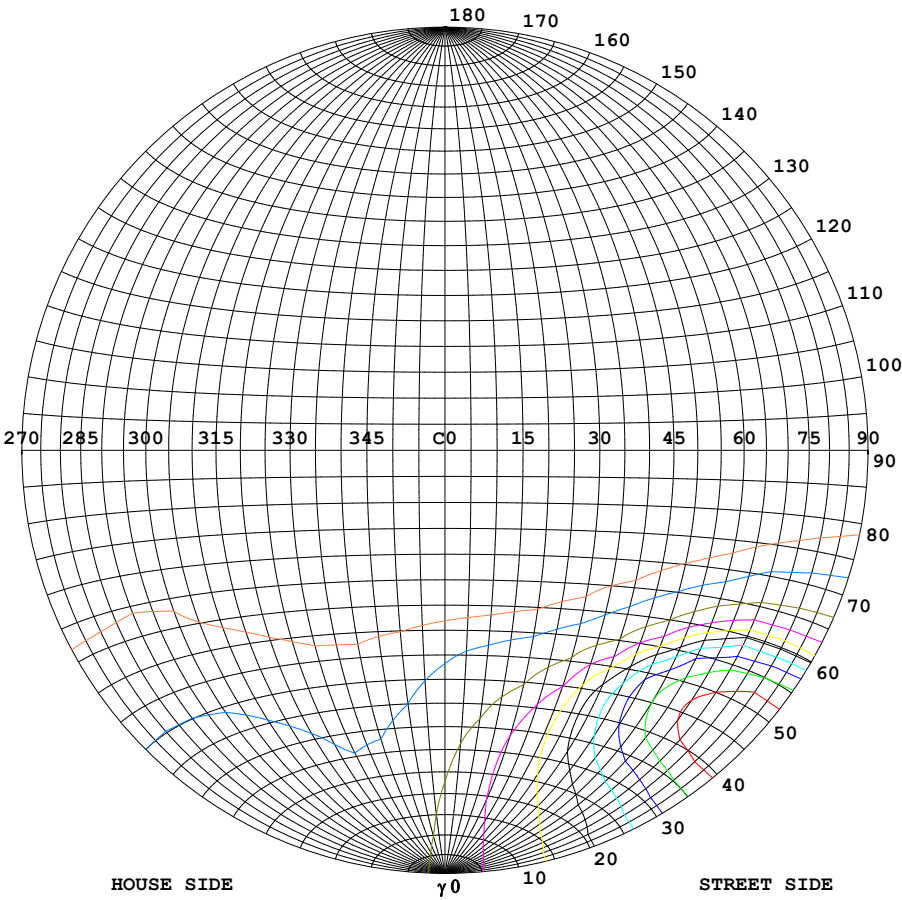
| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 152.55 lm/W |          |                   |      |
|-------------------|---------|-----------------------------------|----------|-------------------|------|
| MODEL             | /       | I <sub>max</sub> (cd)             | 93684    | η street_up (%)   | 0.0  |
| NOMINAL POWER (W) | /       | LOR (%)                           | 100.0    | η street_down (%) | 81.8 |
| RATED VOLTAGE (V) | /       | TOTAL FLUX (lm)                   | 91529    | η house_up (%)    | 0.0  |
| NOMINAL FLUX (lm) | 91529.3 | MAXIMUM @ (C, γ )                 | 100,45.0 | η house_down (%)  | 18.2 |
| LAMPS INSIDE      | 1       | η up (%)                          | 0.0      | 76 FLASHAREA (m2) |      |
| TEST VOLTAGE (V)  | /       | η down (%)                        | 100.0    | SLI               |      |



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LYJ  
Test Date: 14 January 2023

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

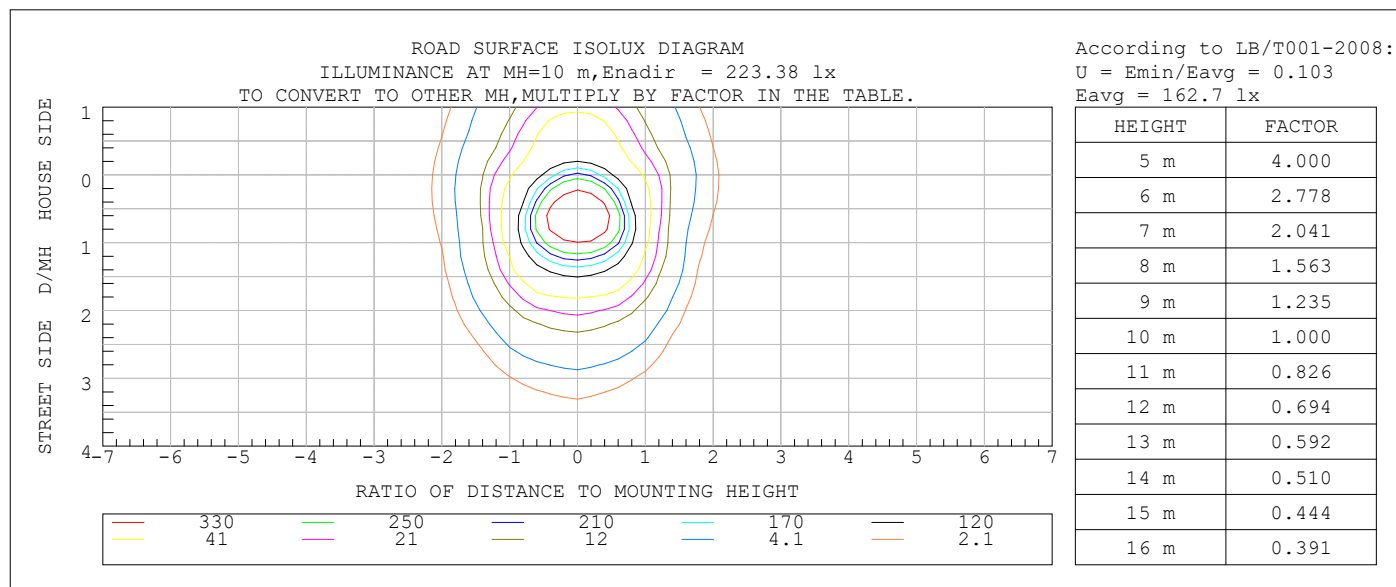
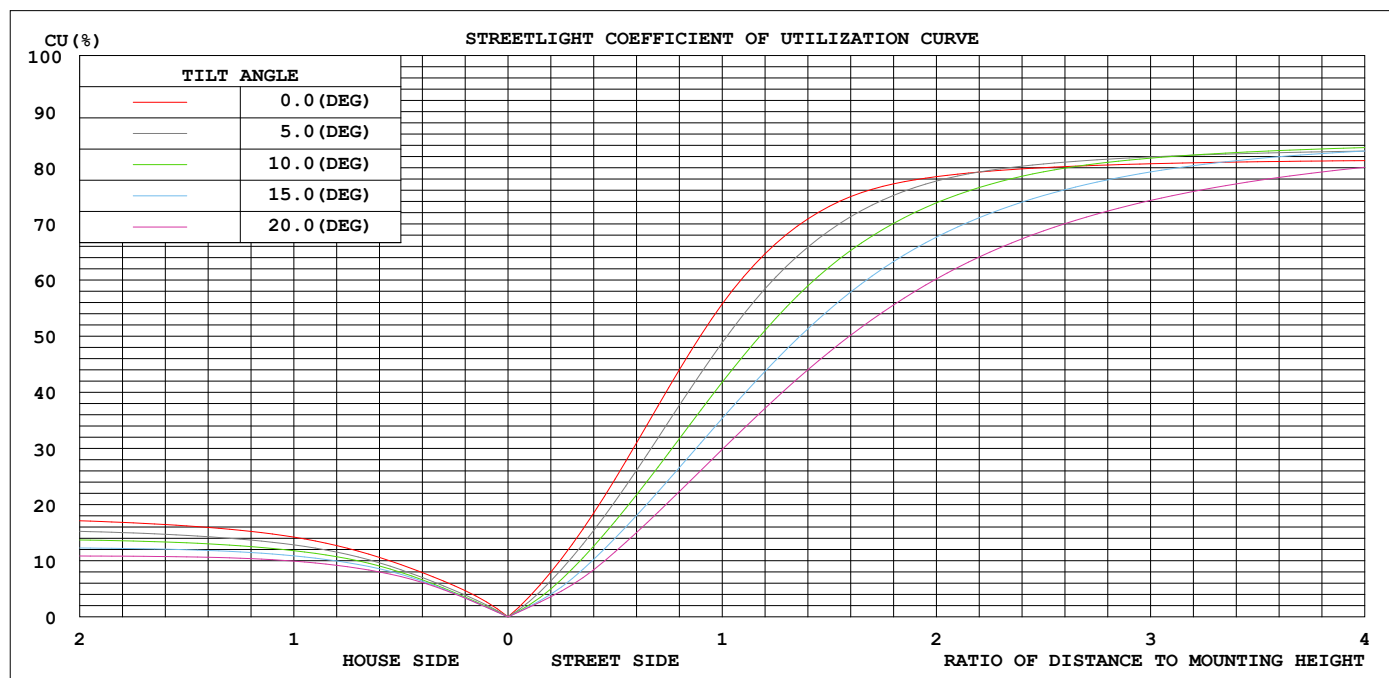


Classification:  
IES:Type II - Very Short  
CIE:Average - Short  
IES:Cut-off  
CIE:Semi-cut-off  
Max.At80:42.29cd/klm  
Max.At90:0.1751cd/klm  
Max.80-90:42.29cd/klm  
NRB 5101:Limited[1.3%]

| ISOCANDELA DIAGRAM |       |  |
|--------------------|-------|--|
| UNIT               | cd    |  |
| Imax=100%          | 93684 |  |
| 90%                | 84315 |  |
| 80%                | 74947 |  |
| 70%                | 65579 |  |
| 60%                | 56210 |  |
| 50%                | 46842 |  |
| 40%                | 37474 |  |
| 30%                | 28105 |  |
| 20%                | 18737 |  |
| 10%                | 9368  |  |
| 5%                 | 4684  |  |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:LYJ  
Test Date:14 January 2023

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LYJ  
Test Date: 14 January 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

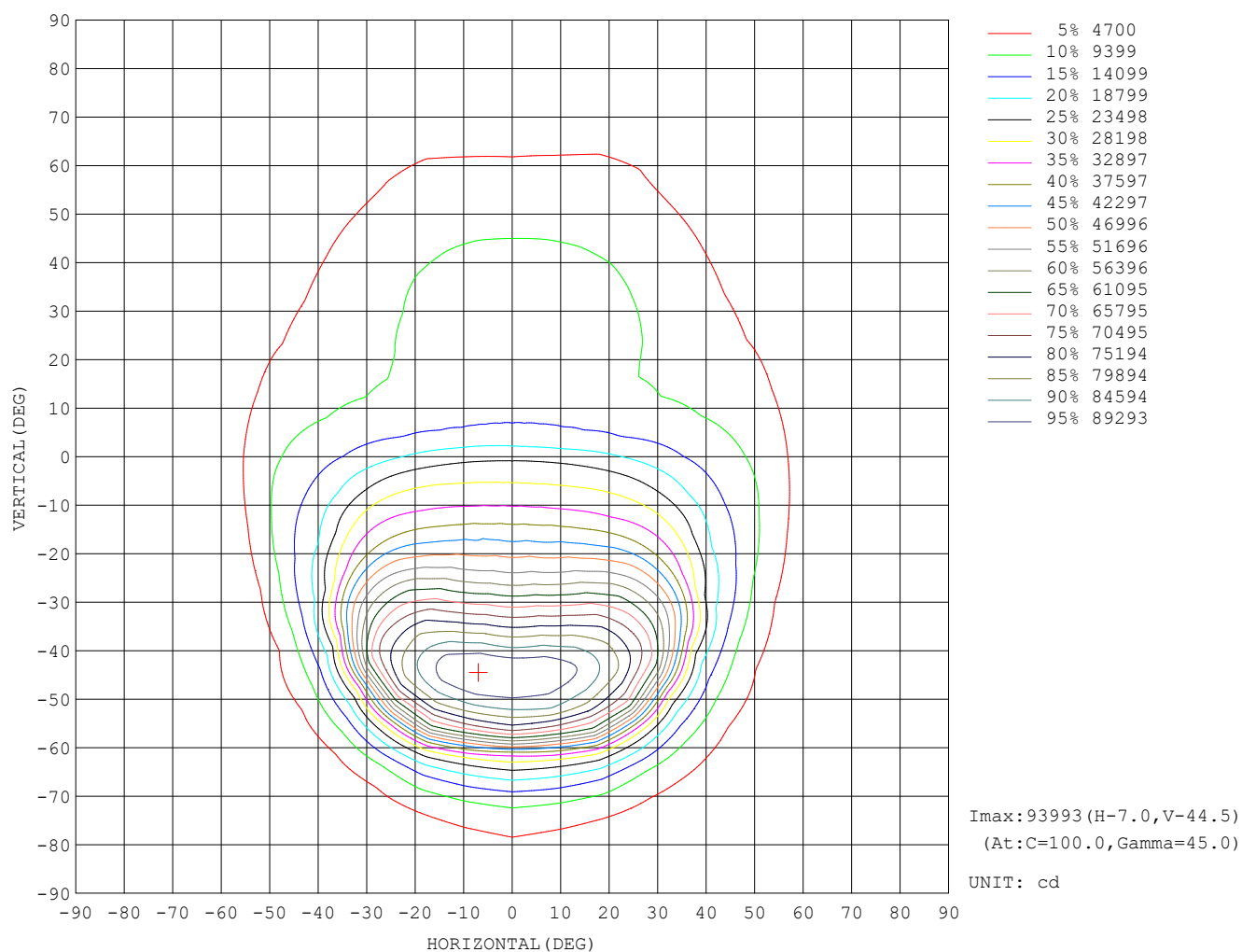
## ZONAL FLUX DIAGRAM

| $\gamma$ | C0                       | C45   | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|--------------------------|-------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10       | 2149                     | 2935  | 3279   | 2979   | 2166   | 1377   | 1308   | 1393   | 0- 10    | 2086        | 2086         | 2.28,2.28  |
| 20       | 1943                     | 3709  | 4608   | 3793   | 1950   | 1111   | 1223   | 1132   | 10- 20   | 6559        | 8646         | 9.45,9.45  |
| 30       | 1607                     | 4823  | 6396   | 4987   | 1587   | 998.9  | 1286   | 1048   | 20- 30   | 12209       | 20855        | 22.8,22.8  |
| 40       | 1232                     | 5875  | 8637   | 6018   | 1219   | 832.6  | 1126   | 907.0  | 30- 40   | 19205       | 40060        | 43.8,43.8  |
| 50       | 855.6                    | 4896  | 8941   | 4567   | 804.6  | 577.0  | 730.4  | 621.2  | 40- 50   | 23827       | 63887        | 69.8,69.8  |
| 60       | 370.6                    | 1491  | 4581   | 1206   | 332.1  | 382.2  | 508.3  | 415.0  | 50- 60   | 18061       | 81948        | 89.5,89.5  |
| 70       | 195.0                    | 391.3 | 1265   | 270.0  | 174.9  | 185.7  | 296.8  | 209.6  | 60- 70   | 6878        | 88826        | 97,97      |
| 80       | 67.39                    | 110.3 | 387.1  | 73.36  | 51.96  | 52.06  | 93.15  | 60.95  | 70- 80   | 2303        | 91129        | 99.6,99.6  |
| 90       | 1.339                    | 1.496 | 0.6775 | 0.3173 | 0.3256 | 0.5161 | 0.9255 | 0.8204 | 80- 90   | 400.0       | 91529        | 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:X10cd |       |        |        |        |        |        |        |          | UNIT:lm     |              |            |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:14 January 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.4556]  
 Remarks:

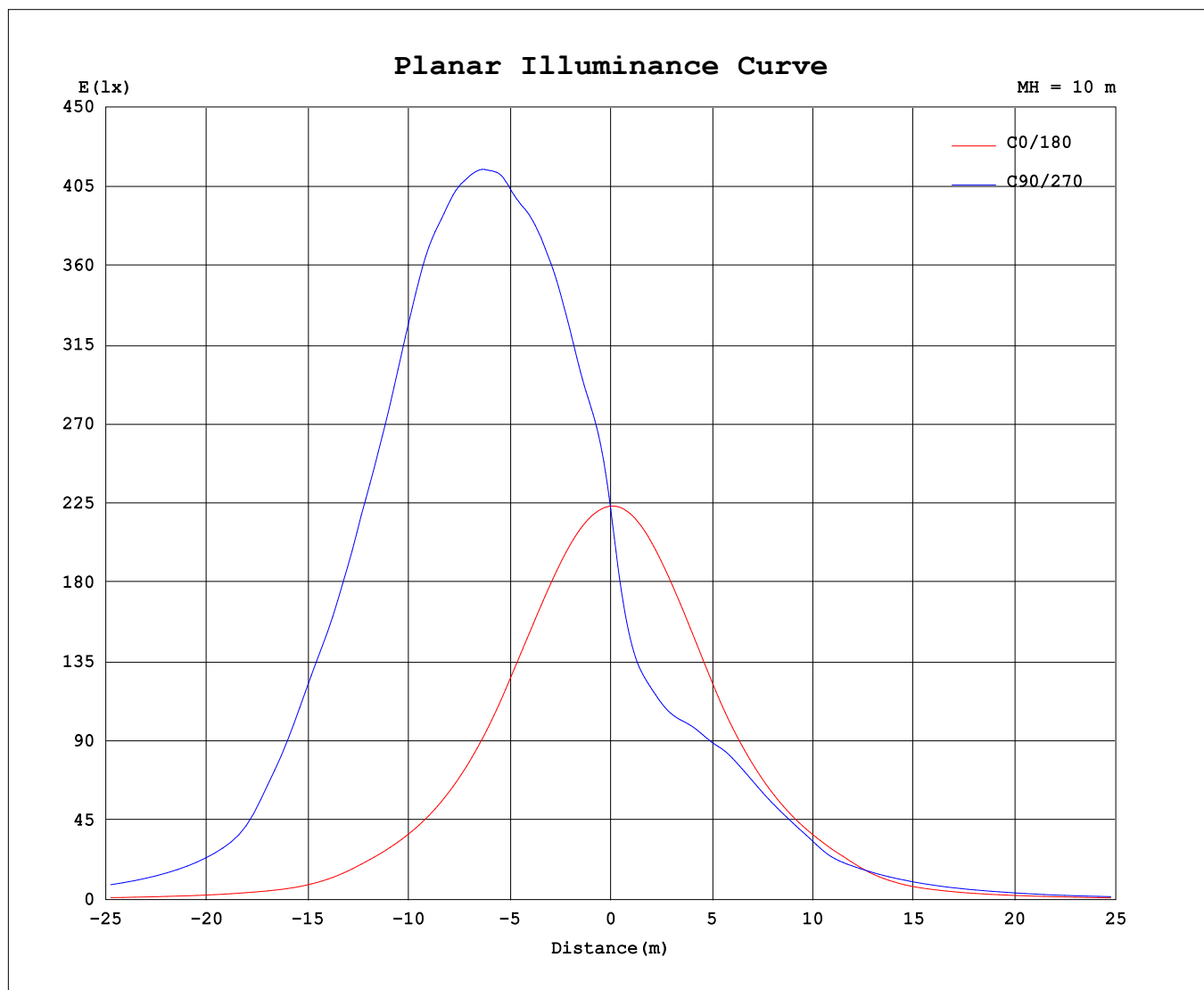
## ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LYJ  
Test Date: 14 January 2023

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: LYJ  
Test Date: 14 January 2023

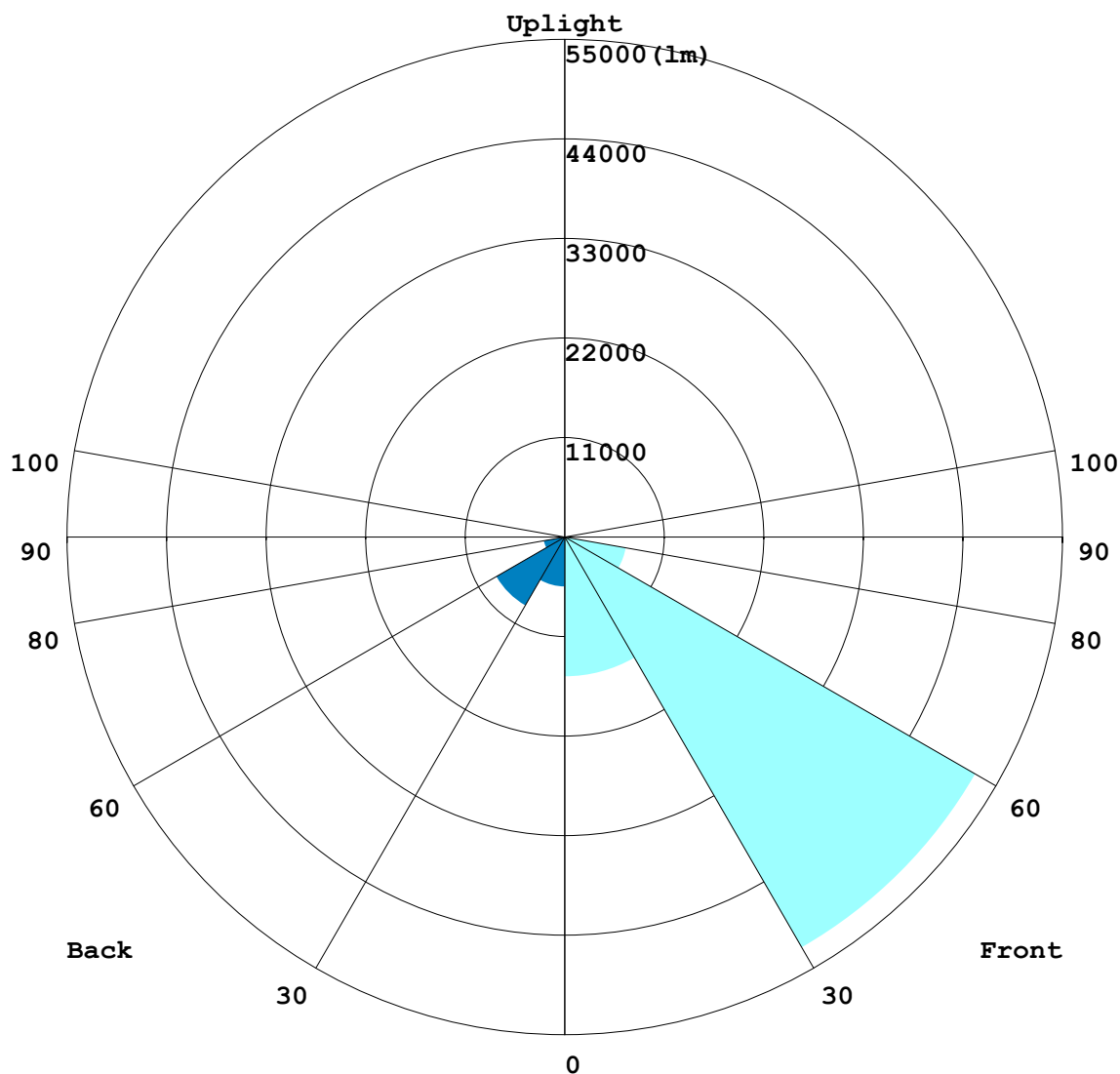
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity: 65.0%  
Test Distance: 26.000m [K=0.4556]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

|  |       |                  |
|--|-------|------------------|
| Test:U:230.0V I:2.665A P:600.0W PF:0.979 Freq:50.00Hz  |       |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:91529.3x1 lm |       |                  |
| NAME: SP04-600-5770-F04001Z                            | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:LYJ  
 Test Date:14 January 2023

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
 Humidity:65.0%  
 Test Distance:26.000m [K=0.4556]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## BUG REPORT

|   |       |                  |
|---|-------|------------------|
| Test:U:230.0V I:2.665A P:600.0W PF:0.979 Freq:50.00Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:91529.3x1 lm |       |                  |
| NAME: SP04-600-5770-F04001Z   | TYPE: | WEIGHT:          |
| SPEC.:  | DIM.: | SERIAL No.:      |
| MFR.:   | SUR.: | Shielding Angle: |

### IESNA Luminaire Flux Distribution Table:

| Zone                         | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30)         | 15394  | 16.8        |
| FM - Front-Medium(30-60)     | 52370  | 57.2        |
| FH - Front-High(60-80)       | 6838.3 | 7.5         |
| FVH - Front-Very High(80-90) | 272.56 | 0.3         |
| Total Forward Light          | 74875  | 81.8        |

|                             |        |      |
|-----------------------------|--------|------|
| BL - Back-Low(0-30)         | 5461.5 | 6.0  |
| BM - Back-Medium(30-60)     | 8722.5 | 9.5  |
| BH - Back-High(60-80)       | 2343   | 2.6  |
| BVH - Back-Very High(80-90) | 127.48 | 0.1  |
| Total Back Light            | 16654  | 18.2 |

|                            |   |     |
|----------------------------|---|-----|
| 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 | B5-U0-G3 |
|---------------------------|----------|

| Zone        | Downward<br>Lumens | Upward<br>Lumens | Total<br>Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side  | 16654              | 0                | 16654           |
| Street Side | 74875              | 0                | 74875           |

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:LYJ  
Test Date:14 January 2023

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465  
Humidity:65.0%  
Test Distance:26.000m [K=0.4556]  
Remarks:

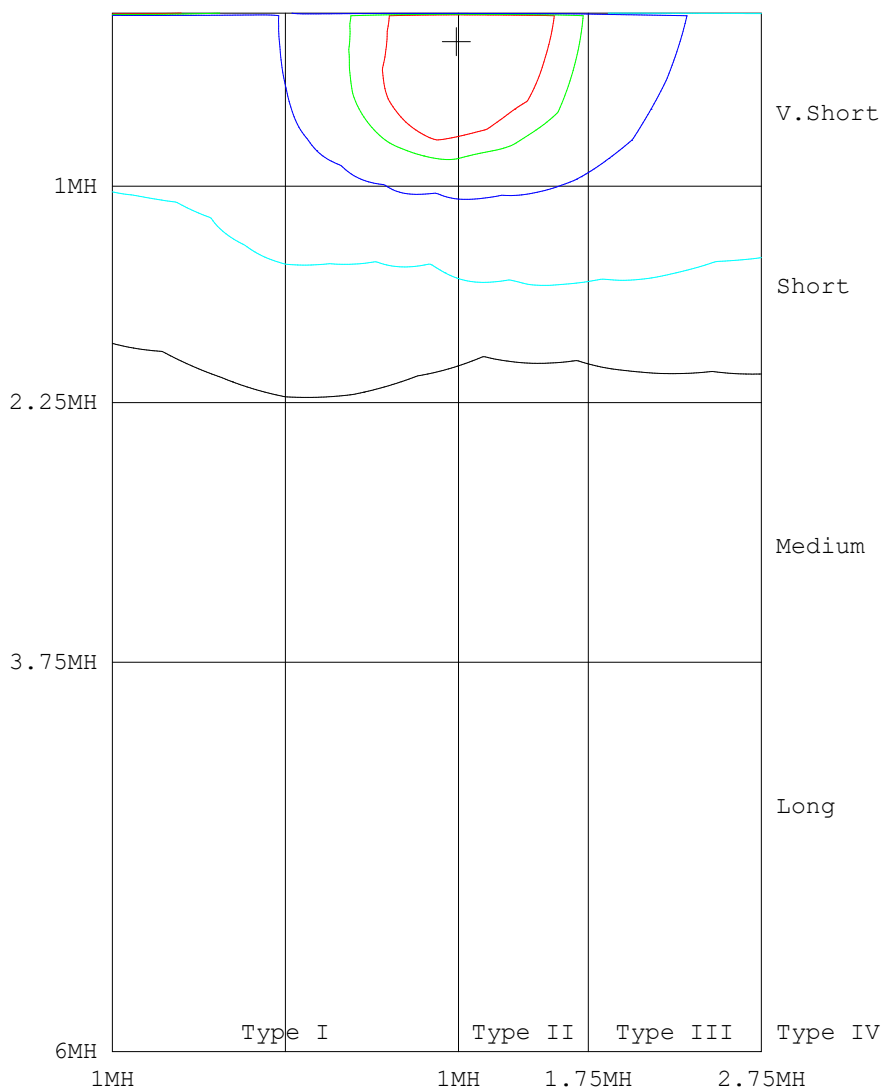


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

|  |       |                  |
|--|-------|------------------|
| Test:U:230.0V I:2.665A P:600.0W PF:0.979 Freq:50.00Hz  |       |                  |
| UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:91529.3x1 lm |       |                  |
| NAME: SP04-600-5770-F04001Z                            | TYPE: | WEIGHT:          |
| SPEC.:   | DIM.: | SERIAL No.:      |
| MFR.:  | SUR.: | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG C Interval: 10.0DEG Test Speed: HIGH Temperature:25.3°C Operators:LYJ Test Date:14 January 2023

Pavement: 70% 65760 50% 46971 10% 2348.6

Road: 70% 65760 50% 46971 10% 2348.6

C Range: 0 - 360DEG C Interval: 10.0DEG Test Speed: HIGH Temperature:25.3°C Operators:LYJ Test Date:14 January 2023

Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.465 Humidity:65.0% Test Distance:26.000m [K=0.4556] Remarks: