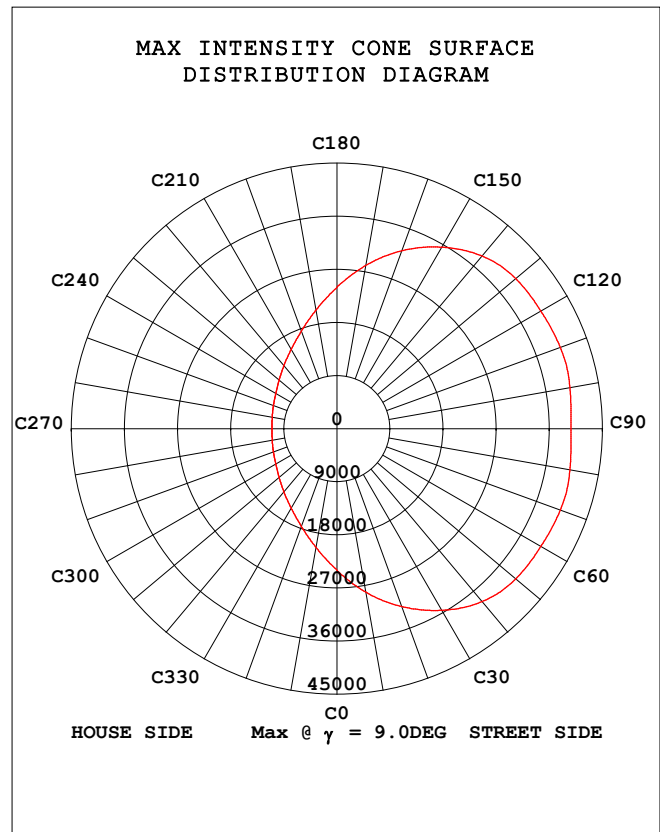
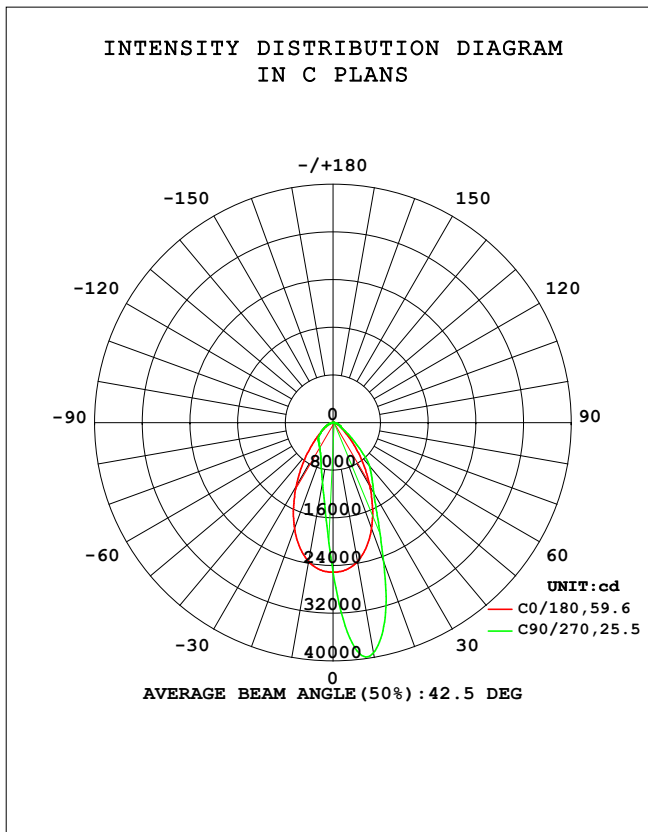


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|--|-------|------------------|
| Test:U:119.3V I:1.7137A P:204.15W PF:0.9990 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:30441x1 lm | | |
| NAME: HA04-200-5770-F01601 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

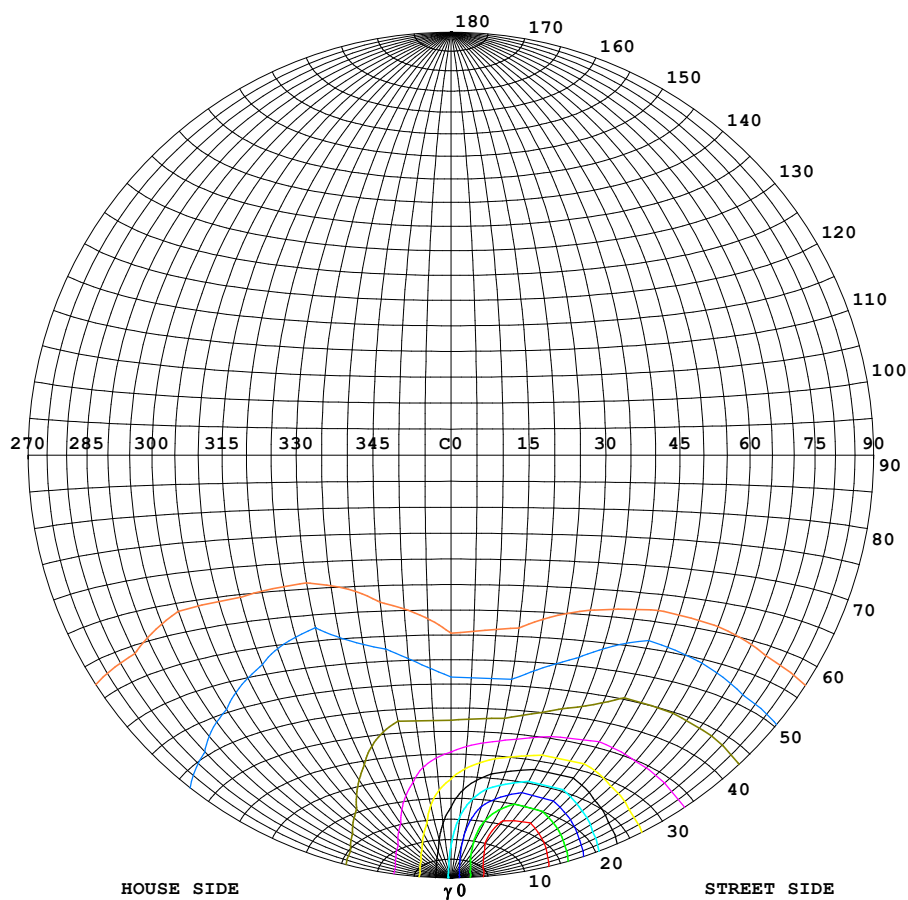
| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 149.11 lm/W | | | |
|-------------------|-------|-----------------------------------|---------|------------------------|------|
| MODEL | / | Imax (cd) | 40339 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | / | LOR (%) | 100.0 | η street_down (%) | 64.9 |
| RATED VOLTAGE (V) | / | TOTAL FLUX (lm) | 30441 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 30441 | MAXIMUM @ (C, γ) | 105,9.0 | η house_down (%) | 35.1 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | 76 FLASHAREA (m2) | |
| TEST VOLTAGE (V) | 120 | η down (%) | 100.0 | SLI | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYJ
Test Date: 2021-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 26.000m [K=0.4536]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

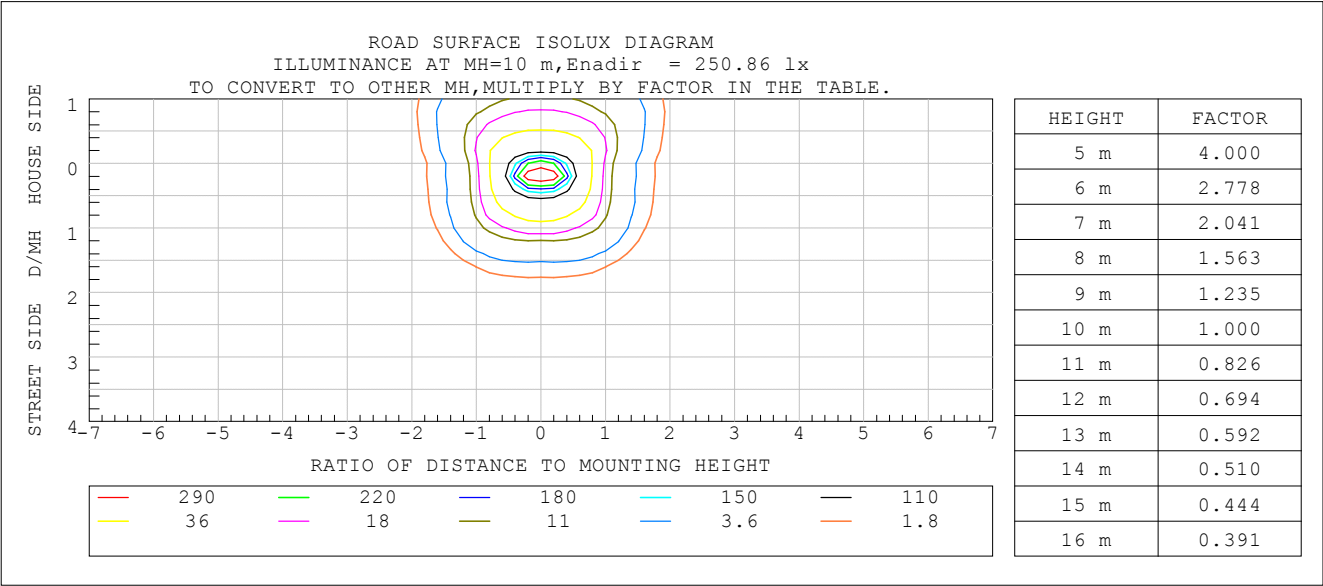
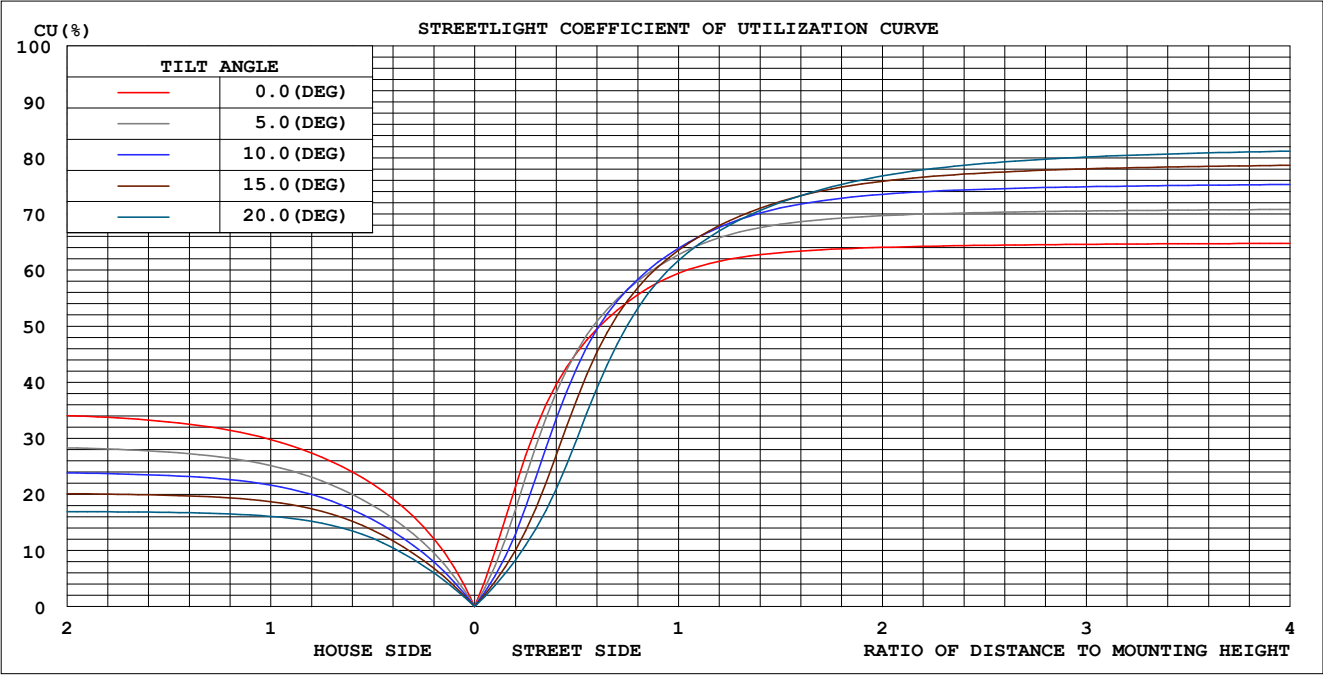
IES:Type I - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Full cut-off
Max.At80:13.34cd/klm
Max.At90:0.0553cd/klm
Max.80-90:13.34cd/klm

| ISOCANDELA DIAGRAM | |
|--------------------|-------|
| UNIT | cd |
| Imax=100% | 40339 |
| 90% | 36305 |
| 80% | 32271 |
| 70% | 28237 |
| 60% | 24203 |
| 50% | 20169 |
| 40% | 16135 |
| 30% | 12102 |
| 20% | 8068 |
| 10% | 4034 |
| 5% | 2017 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYJ
Test Date:2021-11-29

gamma Range: 0 - 90DEG
gamma Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:26.000m [K=0.4536]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYJ
Test Date: 2021-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 26.000m [K=0.4536]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

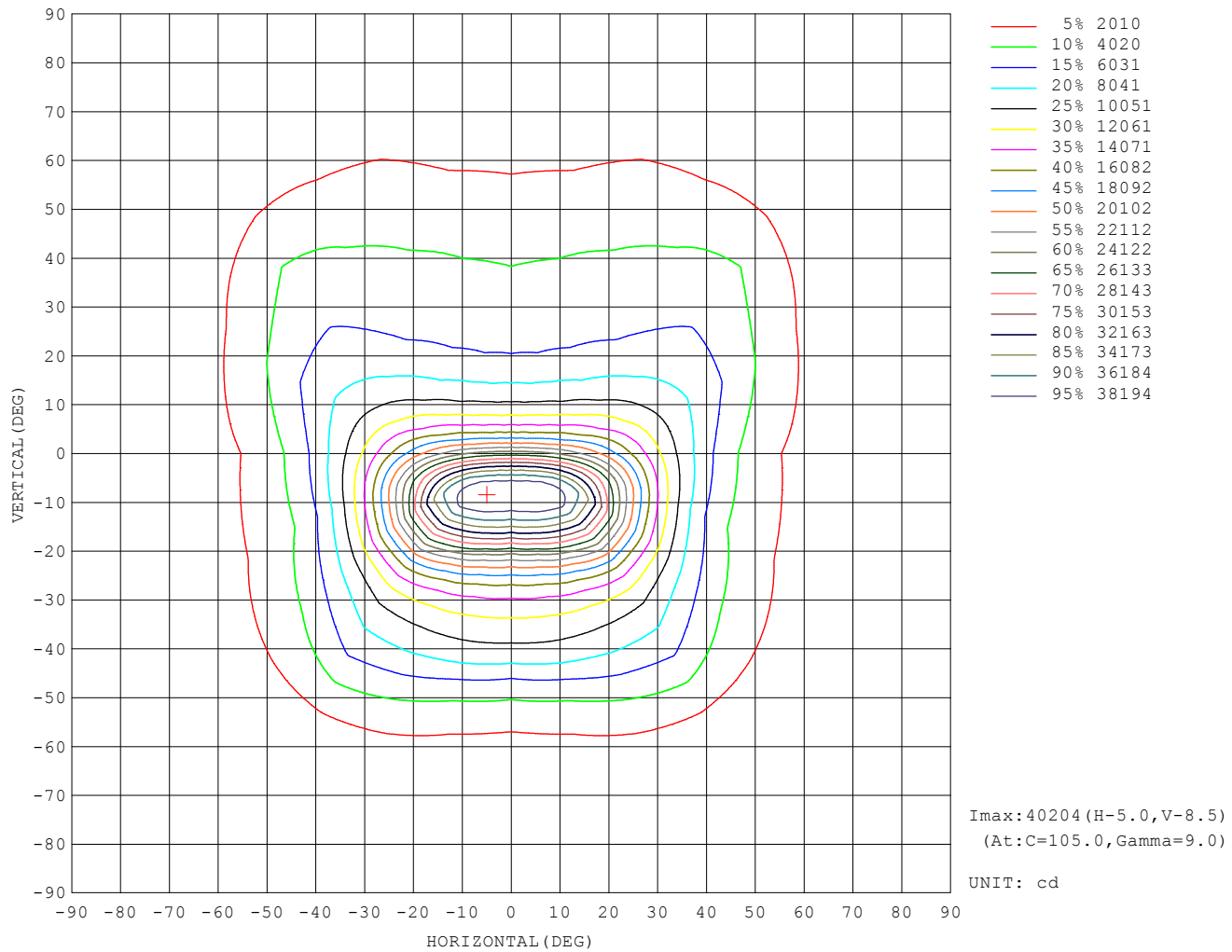
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|--------------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 2369 | 3970 | 3922 | 3970 | 2369 | 1267 | 1032 | 1267 | 0- 10 | 2436 | 2436 | 8,8 |
| 20 | 1892 | 3246 | 2487 | 3246 | 1892 | 827.8 | 609.3 | 827.8 | 10- 20 | 6302 | 8739 | 28.7,28.7 |
| 30 | 1243 | 1779 | 1379 | 1779 | 1243 | 622.8 | 460.4 | 622.8 | 20- 30 | 6784 | 15522 | 51,51 |
| 40 | 669.1 | 1010 | 955.7 | 1010 | 669.1 | 513.3 | 388.5 | 513.3 | 30- 40 | 5639 | 21161 | 69.5,69.5 |
| 50 | 301.0 | 649.2 | 414.2 | 649.2 | 301.0 | 422.3 | 275.3 | 422.3 | 40- 50 | 4392 | 25553 | 83.9,83.9 |
| 60 | 152.9 | 265.6 | 146.3 | 265.6 | 152.9 | 289.7 | 161.0 | 289.7 | 50- 60 | 2864 | 28417 | 93.3,93.3 |
| 70 | 76.67 | 64.12 | 82.90 | 64.12 | 76.67 | 87.21 | 80.59 | 87.21 | 60- 70 | 1435 | 29851 | 98.1,98.1 |
| 80 | 40.62 | 17.81 | 26.21 | 17.81 | 40.62 | 22.01 | 24.97 | 22.01 | 70- 80 | 505.1 | 30357 | 99.7,99.7 |
| 90 | 0.0927 | 0.0852 | 0.0715 | 0.0852 | 0.0927 | 0.1421 | 0.1684 | 0.1421 | 80- 90 | 84.41 | 30441 | 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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYJ
 Test Date:2021-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:26.000m [K=0.4536]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

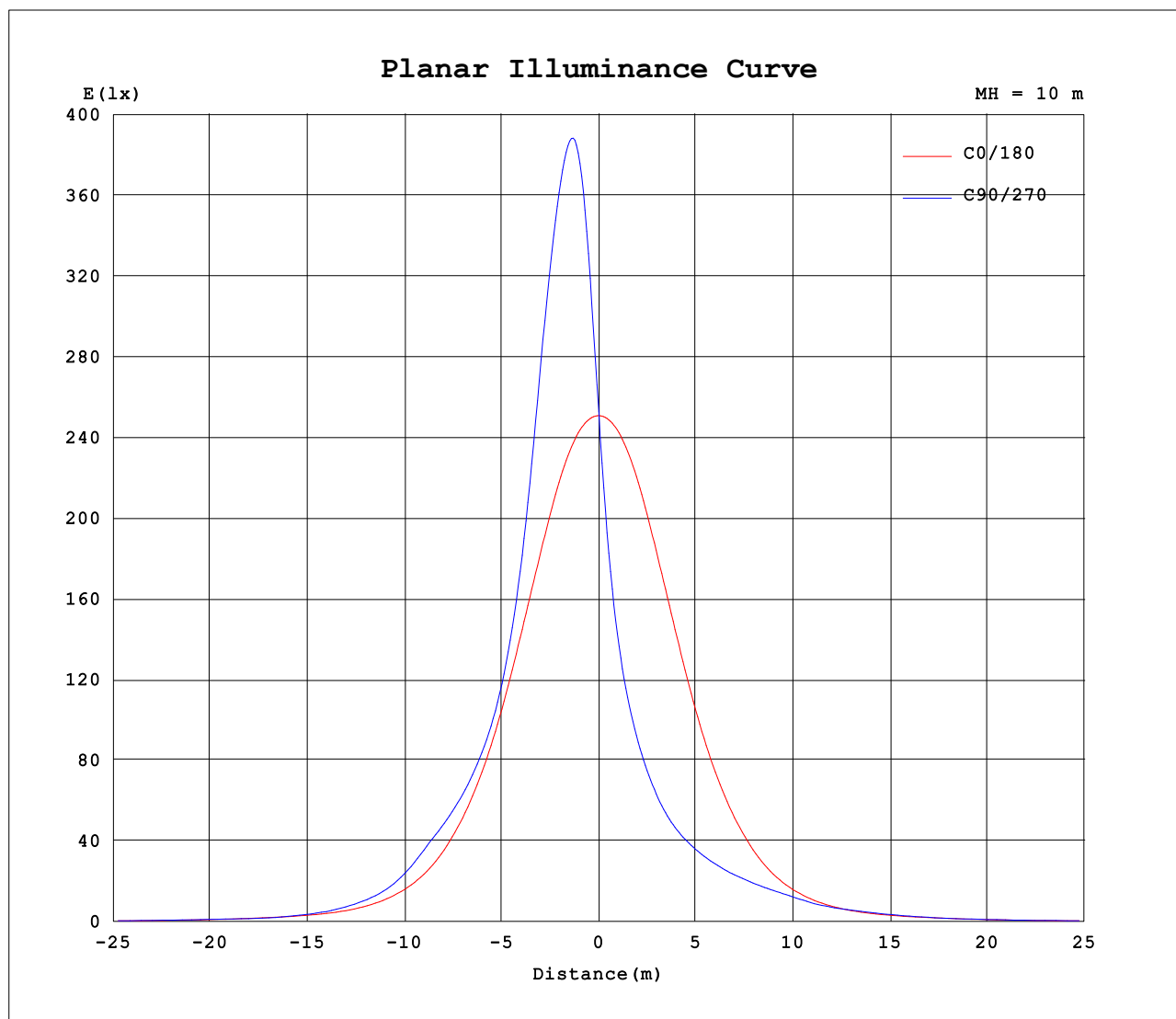
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYJ
Test Date:2021-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:26.000m [K=0.4536]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYJ
Test Date: 2021-11-29

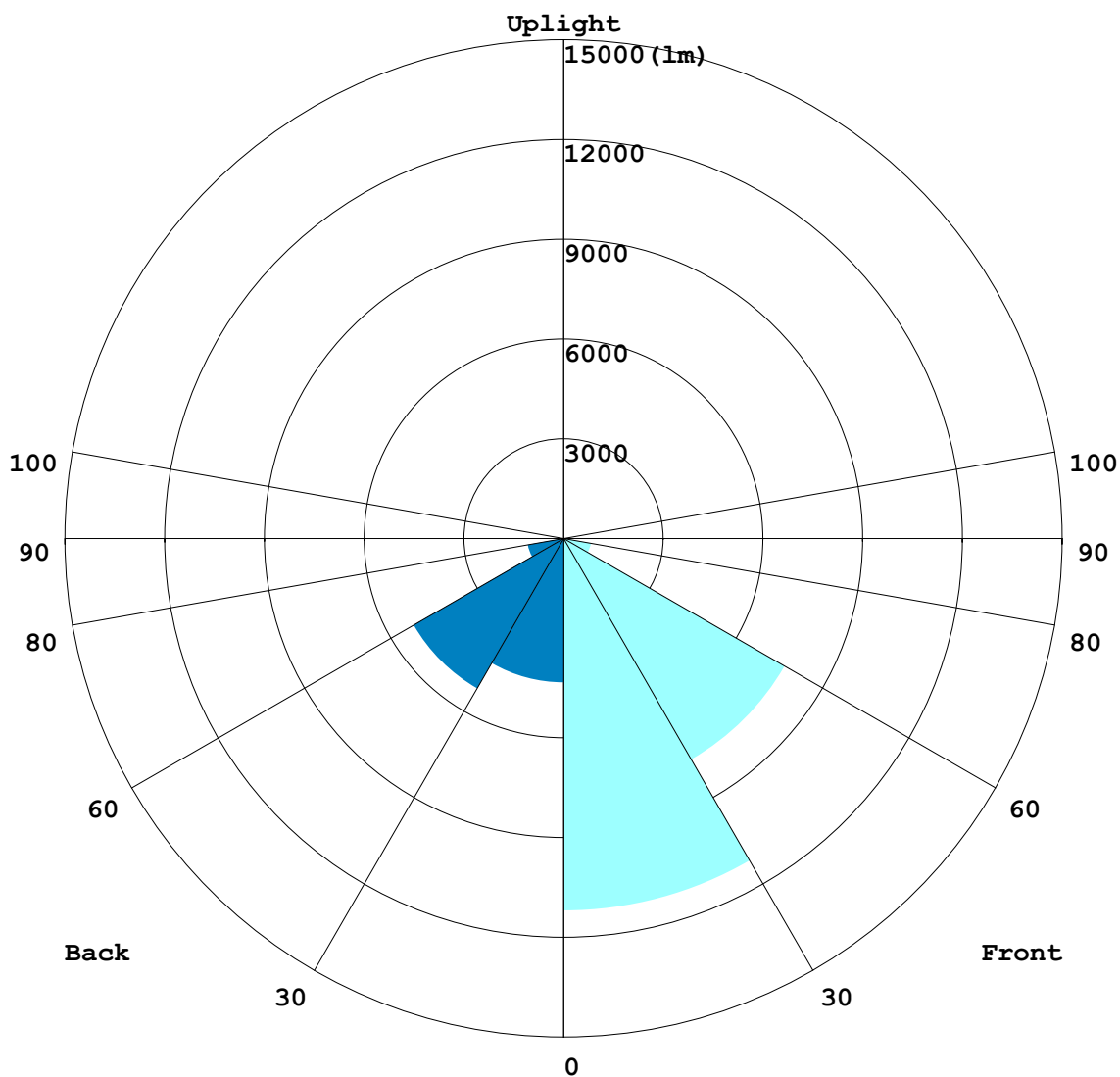
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 26.000m [K=0.4536]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

| | | |
|--|-------|------------------|
| Test:U:119.3V I:1.7137A P:204.15W PF:0.9990 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:30441x1 lm | | |
| NAME: HA04-200-5770-F01601 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYJ
 Test Date:2021-11-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:26.000m [K=0.4536]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

| | | |
|--|-------|------------------|
| Test:U:119.3V I:1.7137A P:204.15W PF:0.9990 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:30441x1 lm | | |
| NAME: HA04-200-5770-F01601 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 11192 | 36.8 |
| FM - Front-Medium(30-60) | 7683.4 | 25.2 |
| FH - Front-High(60-80) | 841.32 | 2.8 |
| FVH - Front-Very High(80-90) | 36.303 | 0.1 |
| Total Forward Light | 19753 | 64.9 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 4330.3 | 14.2 |
| BM - Back-Medium(30-60) | 5210.7 | 17.1 |
| BH - Back-High(60-80) | 1098.6 | 3.6 |
| BVH - Back-Very High(80-90) | 48.111 | 0.2 |
| Total Back Light | 10688 | 35.1 |

| | | |
|----------------------------|---|-----|
| 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 | B4-U0-G3 |
|---------------------------|----------|

| Zone | Downward Lumens | Upward Lumens | Total Lumens |
|-------------|--------------------|------------------|-----------------|
| House Side | 10688 | 0 | 10688 |
| Street Side | 19753 | 0 | 19753 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYJ
Test Date:2021-11-29

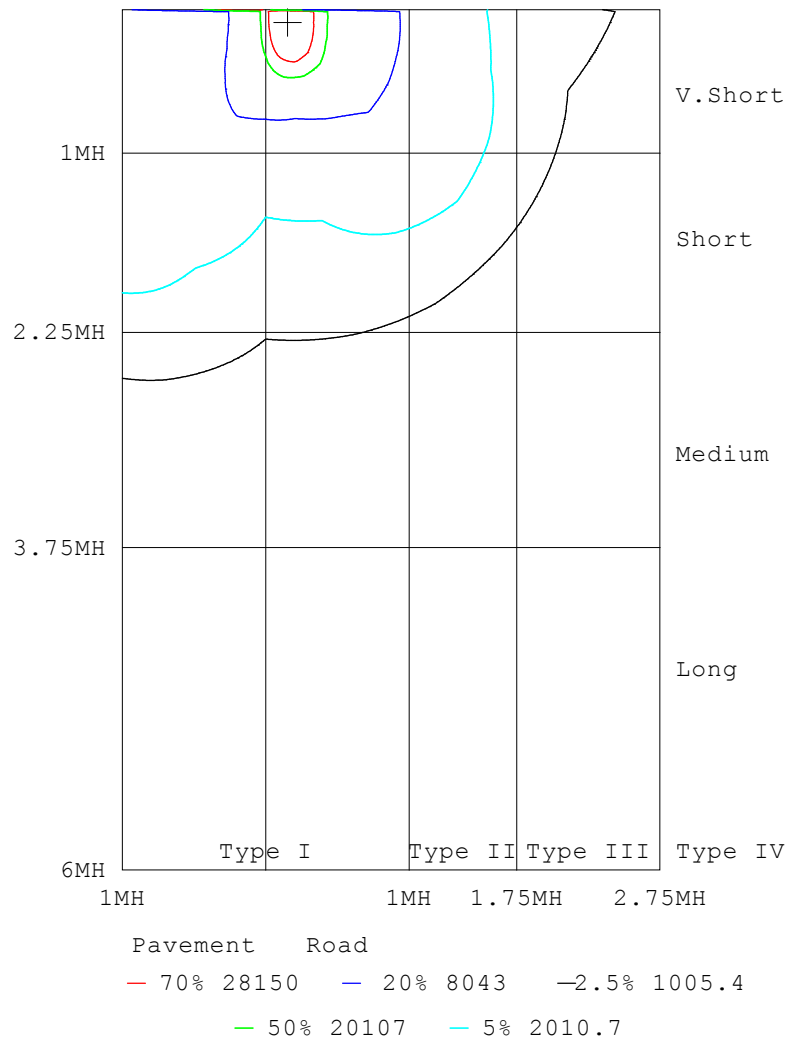
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:26.000m [K=0.4536]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

| | | |
|--|-------|------------------|
| Test:U:119.3V I:1.7137A P:204.15W PF:0.9990 Freq:50.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:30441x1 lm | | |
| NAME: HA04-200-5770-F01601 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYJ
Test Date:2021-11-29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:26.000m [K=0.4536]
Remarks: