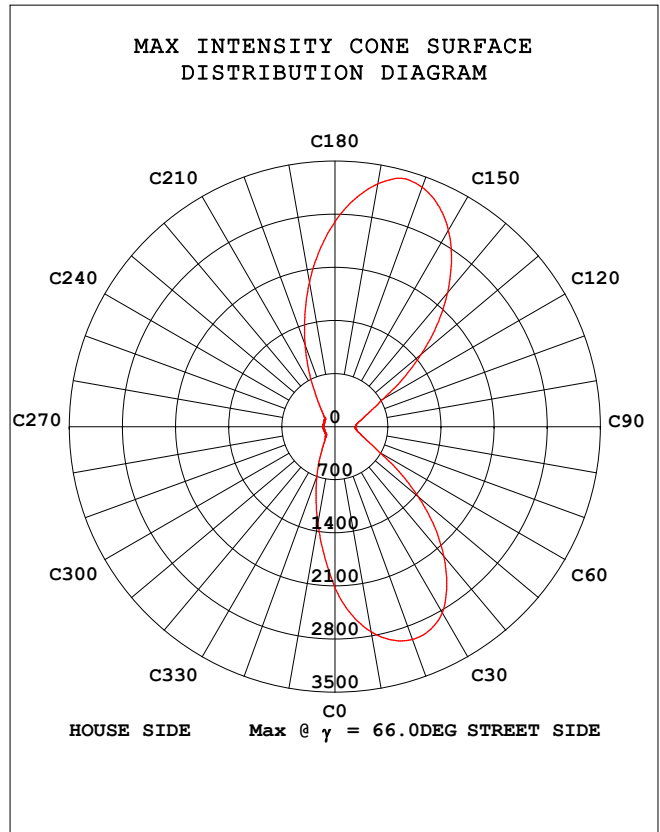
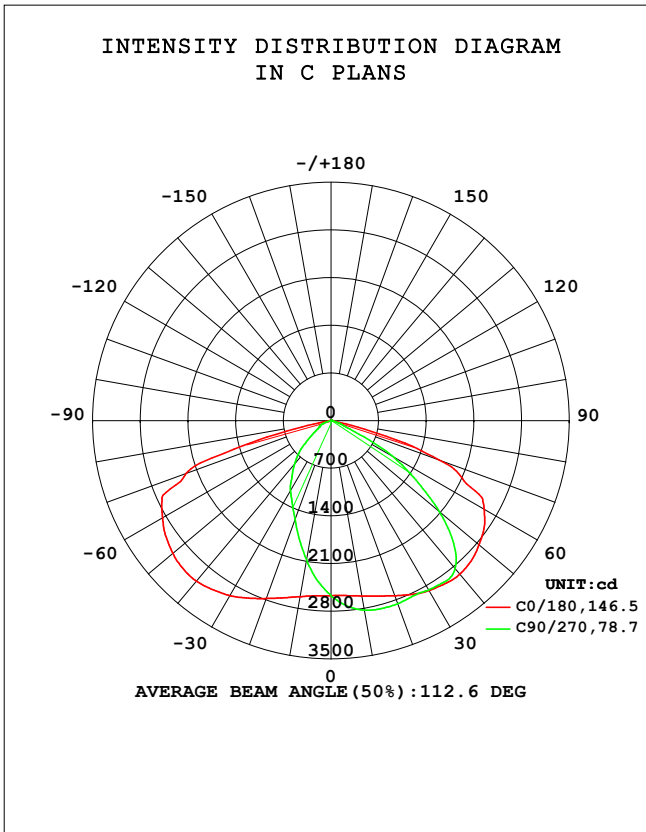


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|---|------------------------|------------------|
| Test:U:230.1V I:0.3251A P:70.45W PF:0.9416 Lamp Flux:8500.52x1 lm | | |
| | TYPE:70W | WEIGHT: |
| SPEC.:6500K Ra70 R09603 | DIM.: 0.68*0.282*0.218 | SERIAL No.: |
| MFR.: | SUR.:0.18*0.18 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 120.66 lm/W | | | |
|-------------------|---------|-----------------------------------|----------|-------------------|------|
| MODEL | 3030 | I _{max} (cd) | 3391 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | 70 | LOR (%) | 100.0 | η street_down (%) | 66.7 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 8501 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 8500.52 | MAXIMUM @ (C, γ) | 165,66.0 | η house_down (%) | 33.3 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | 76 FLASHAREA (m2) | |
| TEST VOLTAGE (V) | 230 | η down (%) | 100.0 | SLI | |



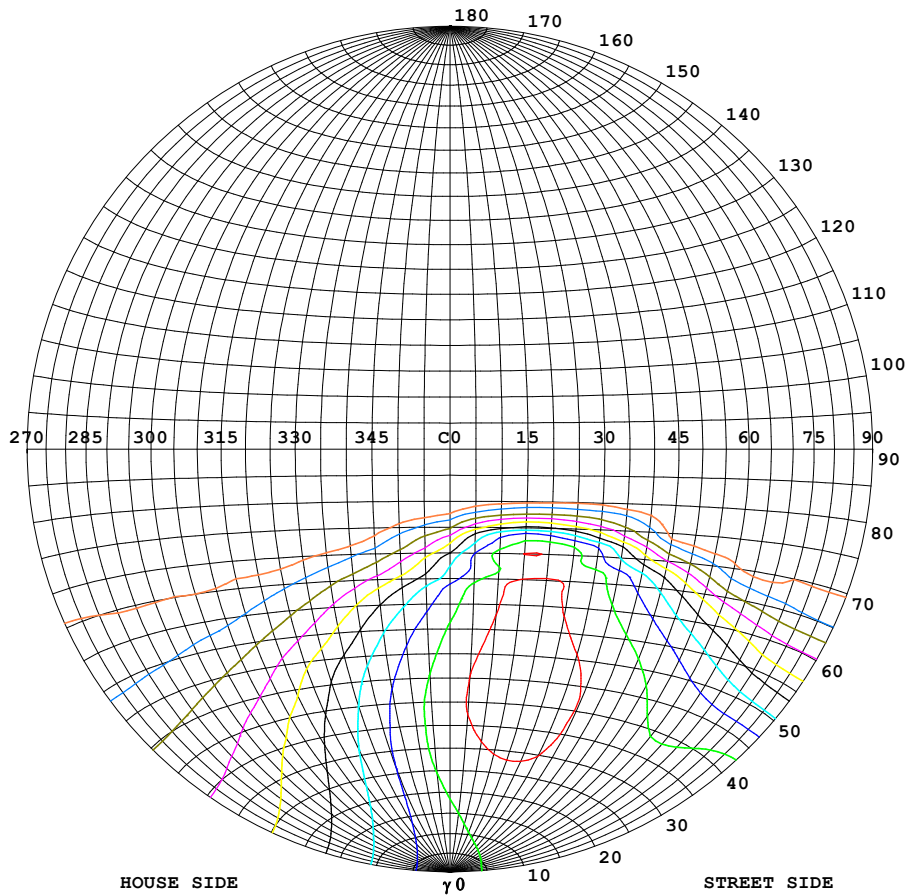
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity: 65.0%
 Test Distance: 9.500m [K=1.0000]
 Remarks:

Checker: LI
 Note: SLI: Specific Luminaire Index

Assessor:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

IES:Type III - Short
 CIE:Average - Intermediate
 IES:Full cut-off
 CIE:Semi-cut-off
 Max.At80:55.93cd/klm
 Max.At90:0cd/klm
 Max.80-90:55.93cd/klm

| ISOCANDELA DIAGRAM | |
|--------------------|------|
| UNIT | cd |
| Imax=100% | 3391 |
| 90% | 3052 |
| 80% | 2713 |
| 70% | 2374 |
| 60% | 2035 |
| 50% | 1696 |
| 40% | 1356 |
| 30% | 1017 |
| 20% | 678 |
| 10% | 339 |
| 5% | 170 |

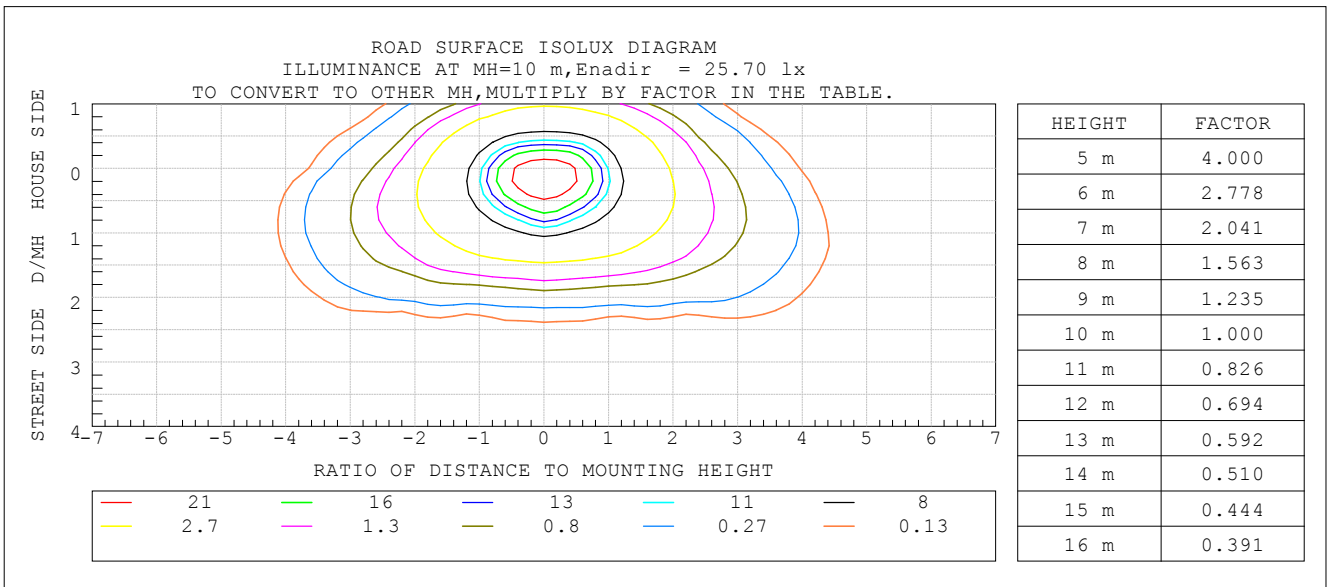
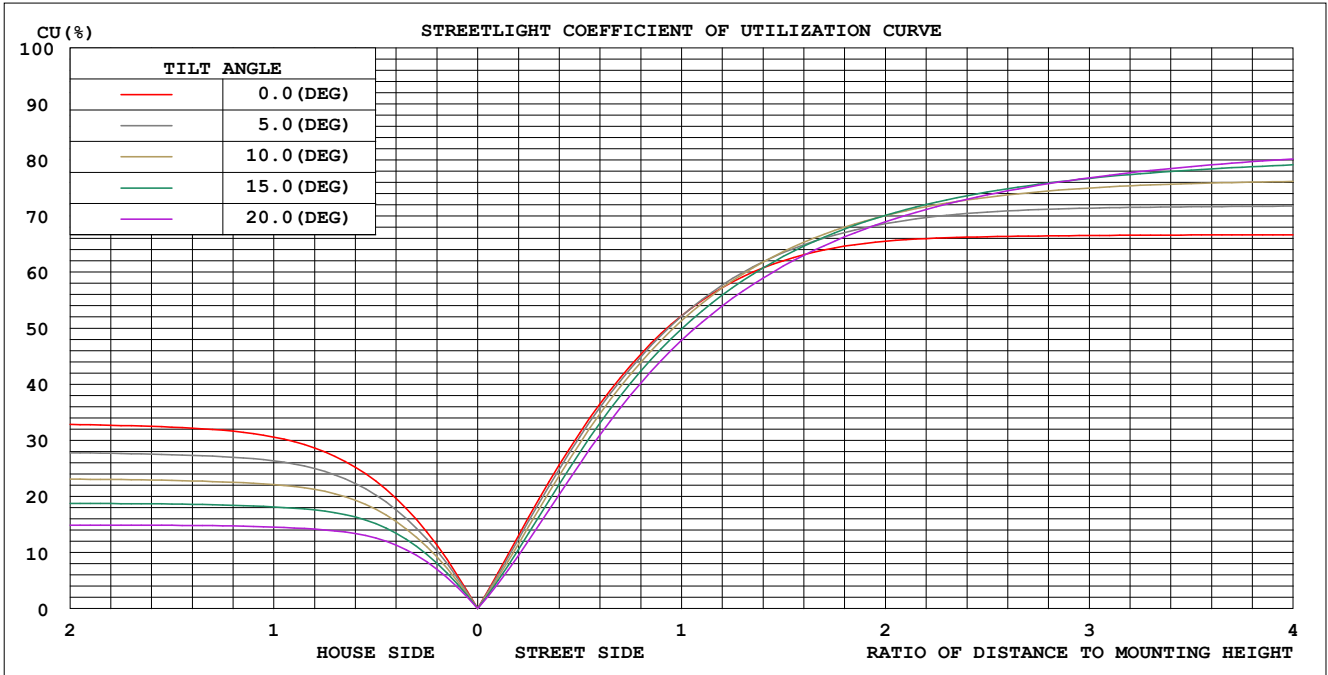
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.500m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.500m [K=1.0000]
Remarks:

Checker: LI

Assessor:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|--------|-------|----------|-------------|--------------|-----------|
| 5 | 2579 | 2692 | 2731 | 2701 | 2582 | 2432 | 2354 | 2420 | 0- 5 | 61.34 | 61.34 | 0.72,0.72 |
| 10 | 2615 | 2799 | 2825 | 2807 | 2625 | 2286 | 2078 | 2255 | 5- 10 | 182.4 | 243.7 | 2.87,2.87 |
| 15 | 2666 | 2882 | 2858 | 2890 | 2693 | 2133 | 1803 | 2084 | 10- 15 | 298.8 | 542.5 | 6.38,6.38 |
| 20 | 2737 | 2921 | 2862 | 2942 | 2779 | 1983 | 1551 | 1924 | 15- 20 | 408.9 | 951.4 | 11.2,11.2 |
| 25 | 2816 | 2931 | 2845 | 2971 | 2876 | 1845 | 1350 | 1782 | 20- 25 | 512.7 | 1464 | 17.2,17.2 |
| 30 | 2881 | 2925 | 2871 | 2980 | 2968 | 1713 | 1194 | 1651 | 25- 30 | 610.4 | 2074 | 24.4,24.4 |
| 35 | 2924 | 2910 | 2896 | 2984 | 3030 | 1578 | 1002 | 1519 | 30- 35 | 700.2 | 2775 | 32.6,32.6 |
| 40 | 2944 | 2888 | 2835 | 2977 | 3077 | 1436 | 838.4 | 1362 | 35- 40 | 774.9 | 3550 | 41.8,41.8 |
| 45 | 2911 | 2853 | 2549 | 2947 | 3074 | 1227 | 664.9 | 1141 | 40- 45 | 827.3 | 4377 | 51.5,51.5 |
| 50 | 2839 | 2764 | 2077 | 2877 | 3033 | 1029 | 452.0 | 916.7 | 45- 50 | 846.3 | 5223 | 61.4,61.4 |
| 55 | 2745 | 2594 | 1526 | 2698 | 2961 | 771.7 | 292.4 | 639.8 | 50- 55 | 823.2 | 6046 | 71.1,71.1 |
| 60 | 2598 | 2338 | 1040 | 2446 | 2857 | 447.7 | 208.3 | 353.7 | 55- 60 | 764.5 | 6811 | 80.1,80.1 |
| 65 | 2196 | 1967 | 347.8 | 2026 | 2739 | 239.7 | 177.2 | 196.9 | 60- 65 | 673.2 | 7484 | 88,88 |
| 70 | 1694 | 1009 | 161.4 | 1097 | 2262 | 145.4 | 122.1 | 126.1 | 65- 70 | 528.3 | 8012 | 94.3,94.3 |
| 75 | 621.4 | 108.5 | 49.11 | 132.6 | 1104 | 78.64 | 8.077 | 63.38 | 70- 75 | 353.0 | 8365 | 98.4,98.4 |
| 80 | 26.92 | 31.39 | 4.995 | 44.02 | 89.22 | 23.63 | 0.8536 | 14.09 | 75- 80 | 119.6 | 8485 | 99.8,99.8 |
| 85 | 11.11 | 10.30 | 2.917 | 13.16 | 17.68 | 5.151 | 1.195 | 4.591 | 80- 85 | 12.21 | 8497 | 100,100 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85- 90 | 3.426 | 8501 | 100,100 |
| 95 | | | | | | | | | 90- 95 | | | |
| 100 | | | | | | | | | 95-100 | | | |
| 105 | | | | | | | | | 100-105 | | | |
| 110 | | | | | | | | | 105-110 | | | |
| 115 | | | | | | | | | 110-115 | | | |
| 120 | | | | | | | | | 115-120 | | | |
| 125 | | | | | | | | | 120-125 | | | |
| 130 | | | | | | | | | 125-130 | | | |
| 135 | | | | | | | | | 130-135 | | | |
| 140 | | | | | | | | | 135-140 | | | |
| 145 | | | | | | | | | 140-145 | | | |
| 150 | | | | | | | | | 145-150 | | | |
| 155 | | | | | | | | | 150-155 | | | |
| 160 | | | | | | | | | 155-160 | | | |
| 165 | | | | | | | | | 160-165 | | | |
| 170 | | | | | | | | | 165-170 | | | |
| 175 | | | | | | | | | 170-175 | | | |
| 180 | | | | | | | | | 175-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-09-21

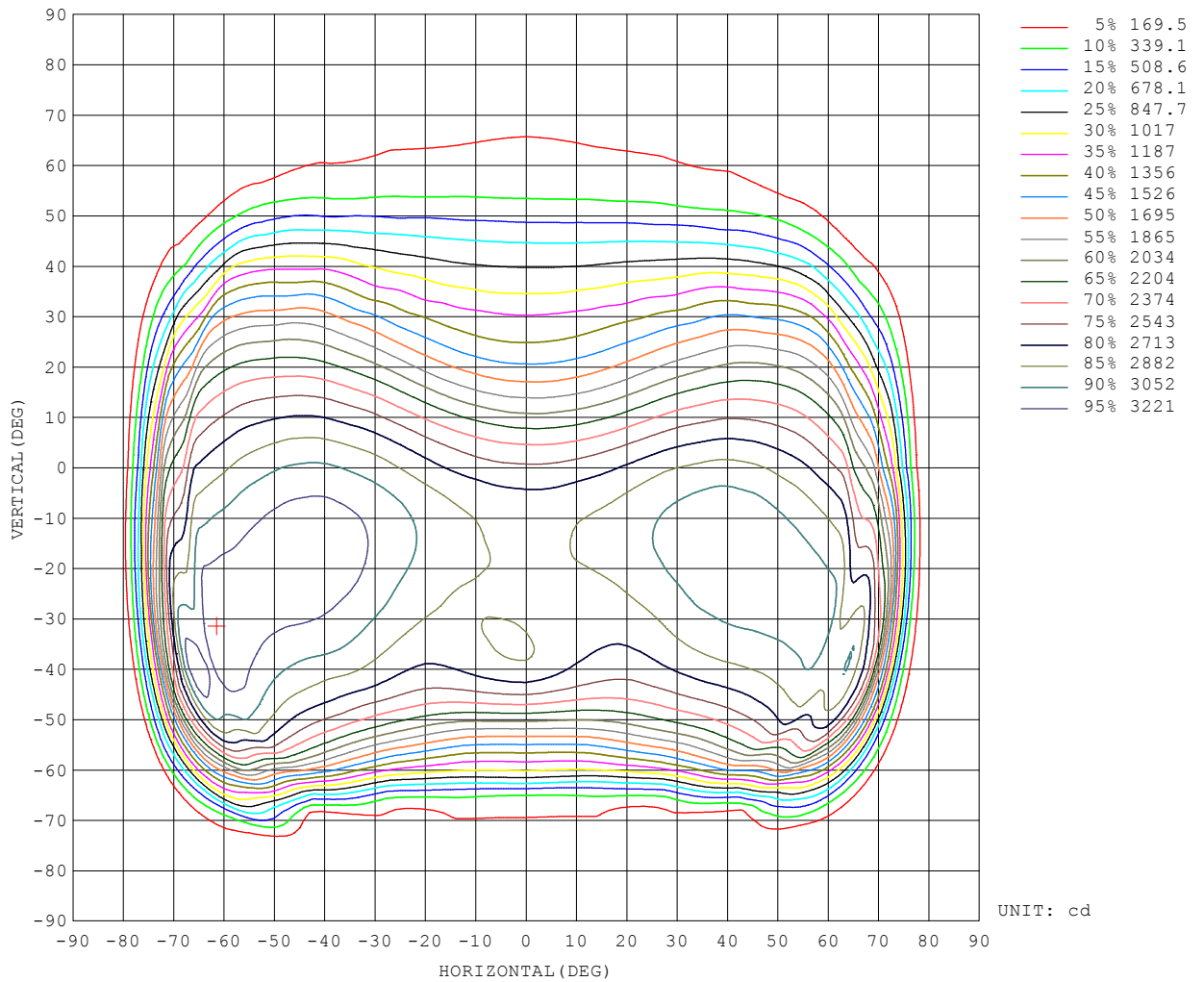
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.500m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM



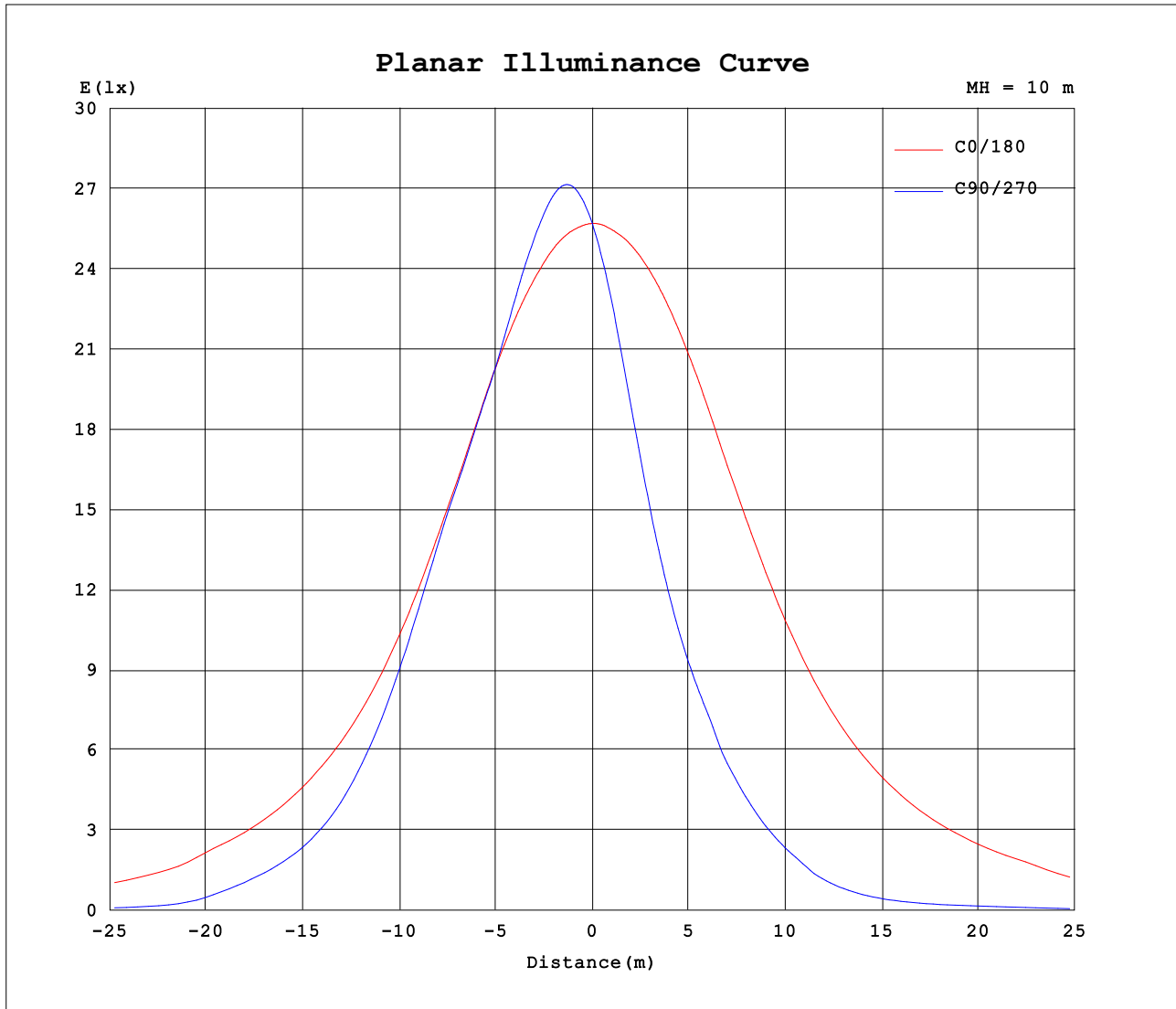
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.500m [K=1.0000]
Remarks:

Checker: LI

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 9.500m [K=1.0000]
Remarks:

Checker: LI

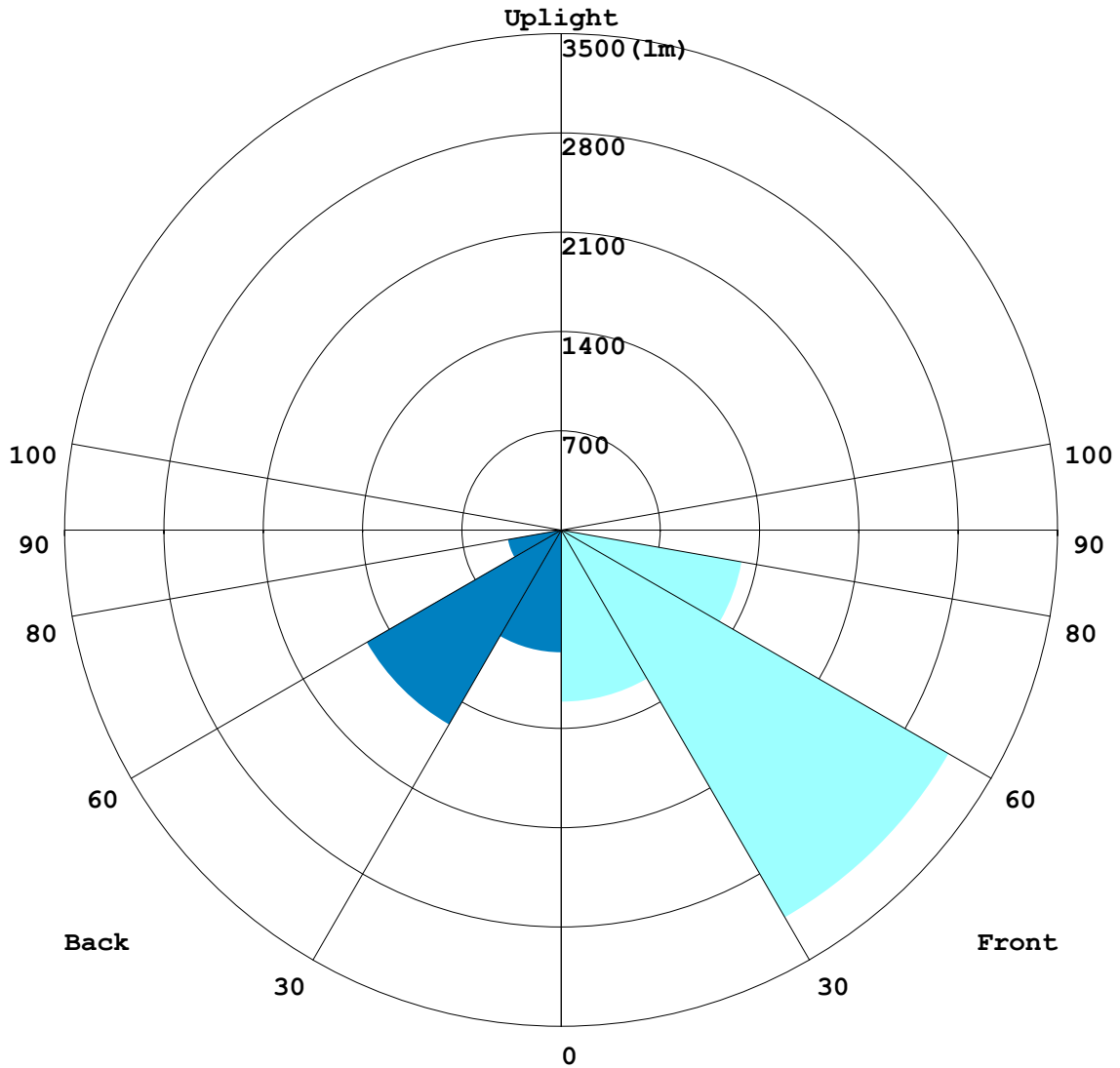
Assessor:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

| | | |
|---|------------------------|------------------|
| Test:U:230.1V I:0.3251A P:70.45W PF:0.9416 Lamp Flux:8500.52x1 lm | | |
| | TYPE:70W | WEIGHT: |
| SPEC.:6500K Ra70 R09603 | DIM.: 0.68*0.282*0.218 | SERIAL No.: |
| MFR.: | SUR.:0.18*0.18 | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.500m [K=1.0000]
 Remarks:

Checker: LI

Assessor:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

| | | |
|---|------------------------|------------------|
| Test:U:230.1V I:0.3251A P:70.45W PF:0.9416 Lamp Flux:8500.52x1 lm | | |
| | TYPE:70W | WEIGHT: |
| SPEC.:6500K Ra70 R09603 | DIM.: 0.68*0.282*0.218 | SERIAL No.: |
| MFR.: | SUR.:0.18*0.18 | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|---------------|-------------|
| FL - Front-Low(0-30) | 1211.2 | 14.2 |
| FM - Front-Medium(30-60) | 3154 | 37.1 |
| FH - Front-High(60-80) | 1293.2 | 15.2 |
| FVH - Front-Very High(80-90) | 11.375 | 0.1 |
| Total Forward Light | 5669.8 | 66.7 |

| | | |
|-----------------------------|---------------|-------------|
| BL - Back-Low(0-30) | 863.2 | 10.2 |
| BM - Back-Medium(30-60) | 1582.4 | 18.6 |
| BH - Back-High(60-80) | 380.81 | 4.5 |
| BVH - Back-Very High(80-90) | 4.2638 | 0.1 |
| Total Back Light | 2830.7 | 33.3 |

| | | |
|----------------------------|----------|------------|
| 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 Lumens | Upward Lumens | Total Lumens |
|-------------|-----------------|---------------|--------------|
| House Side | 2830.7 | 0 | 2830.7 |
| Street Side | 5669.8 | 0 | 5669.8 |

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.500m [K=1.0000]
 Remarks:

Checker: LI

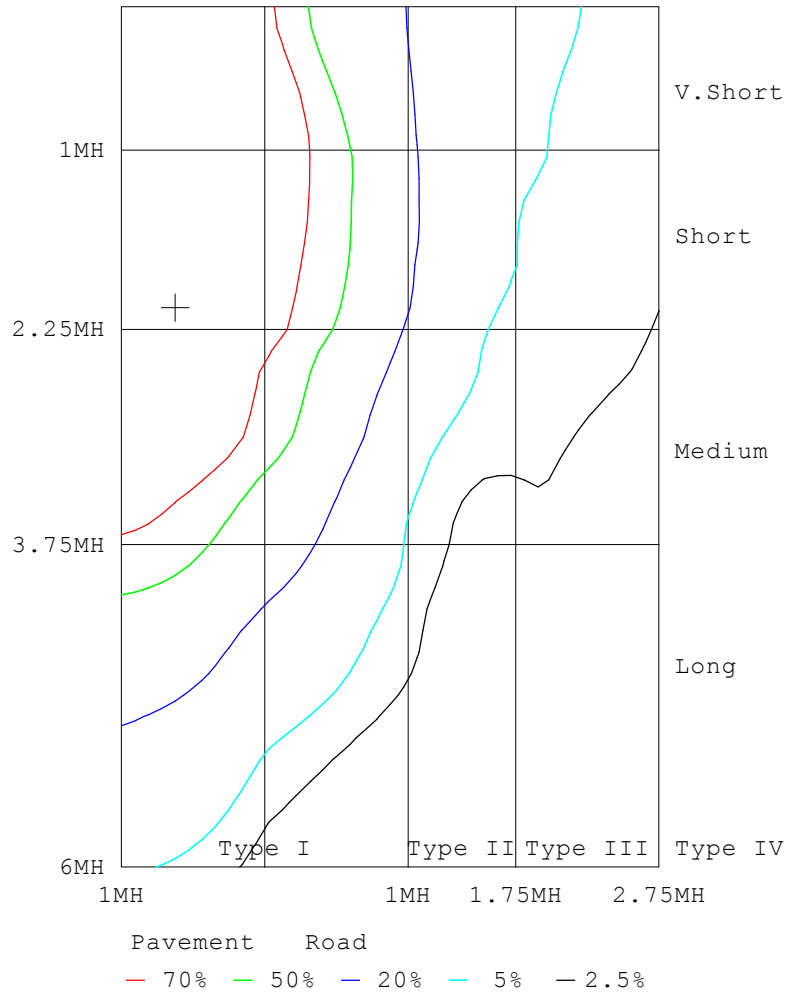
Assessor:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

| | | |
|---|------------------------|------------------|
| Test:U:230.1V I:0.3251A P:70.45W PF:0.9416 Lamp Flux:8500.52x1 lm | | |
| | TYPE:70W | WEIGHT: |
| SPEC.:6500K Ra70 R09603 | DIM.: 0.68*0.282*0.218 | SERIAL No.: |
| MFR.: | SUR.:0.18*0.18 | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2018-09-21

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:9.500m [K=1.0000]
 Remarks:

Checker: LI

Assessor: