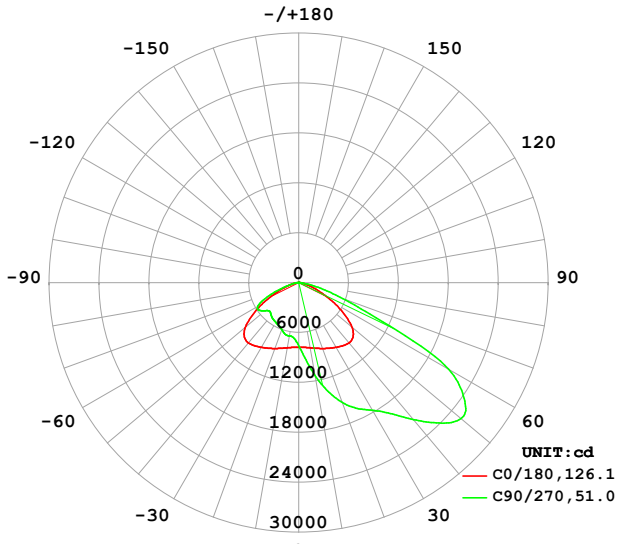
# STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:229.90V I:1.0868A P:245.10W PF:0.9810 Freq:50.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44317.4x1 lm | | |
| NAME: FL72-500(250W)-F04803 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

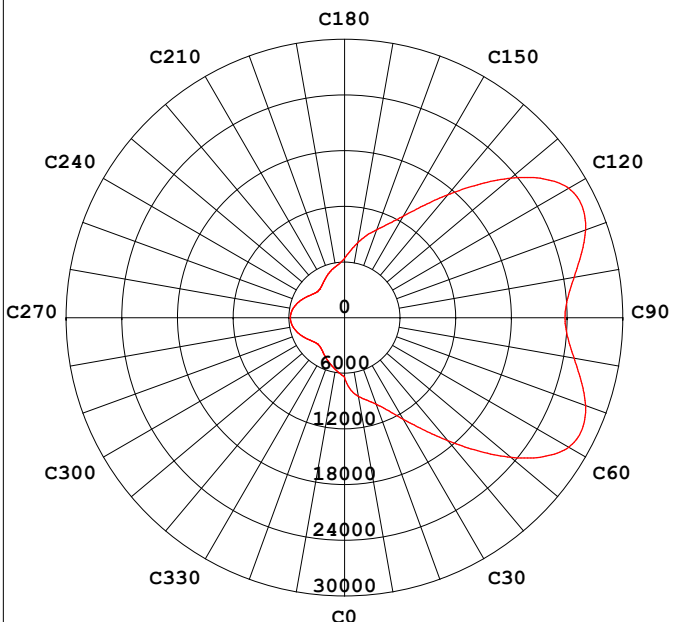
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 180.81 lm/W | |
|---|---|---|---|---|---|
| MODEL | / | Imax(cd) | 27921 | η street_up(%) | 0.0 |
| NOMINAL POWER(W) | / | LOR(%) | 100.0 | η street_down(%) | 73.4 |
| RATED VOLTAGE(V) | / | TOTAL FLUX(lm) | 44317 | η house_up(%) | 0.0 |
| NOMINAL FLUX(lm) | 44317.4 | MAXIMUM @(C,γ ) | 60,56.0 | η house_down(%) | 26.6 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | 76 FLASHAREA(m2) | |
| TEST VOLTAGE(V) | / | η down(%) | 100.0 | SLI | |

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS




AVERAGE BEAM ANGLE(50%):88.5 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

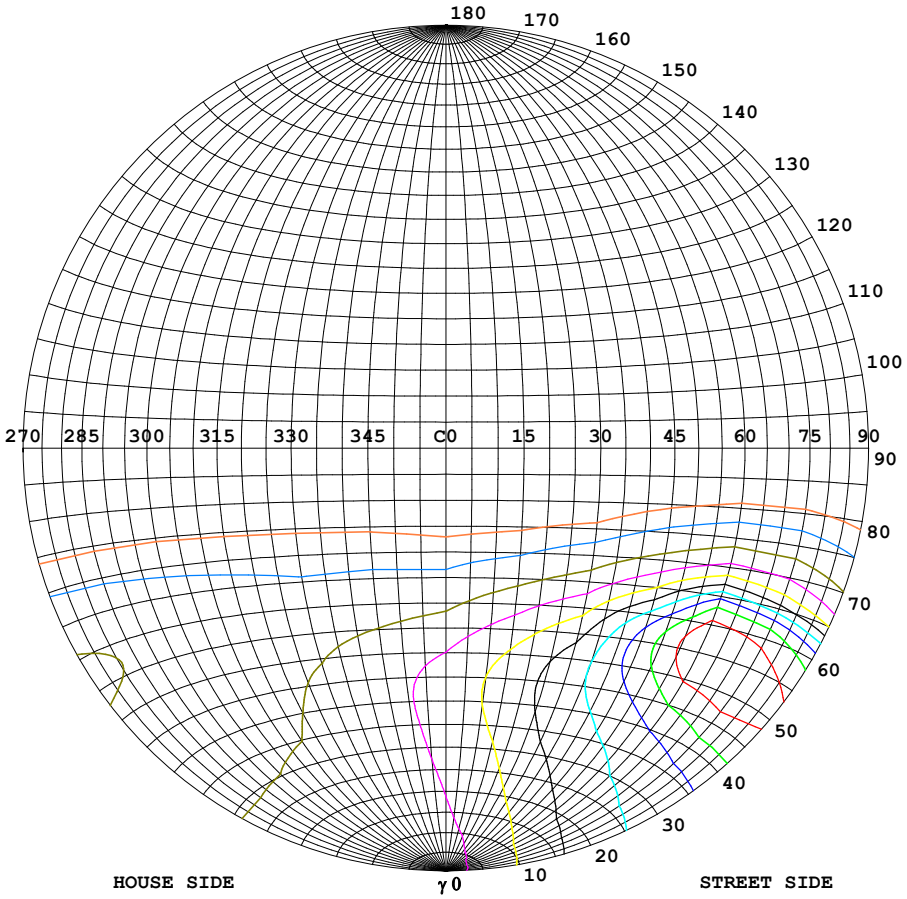



HOUSE SIDE Max @ γ = 56.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## STREETLIGHT ISOCANDELA DIAGRAM




**Classification:**

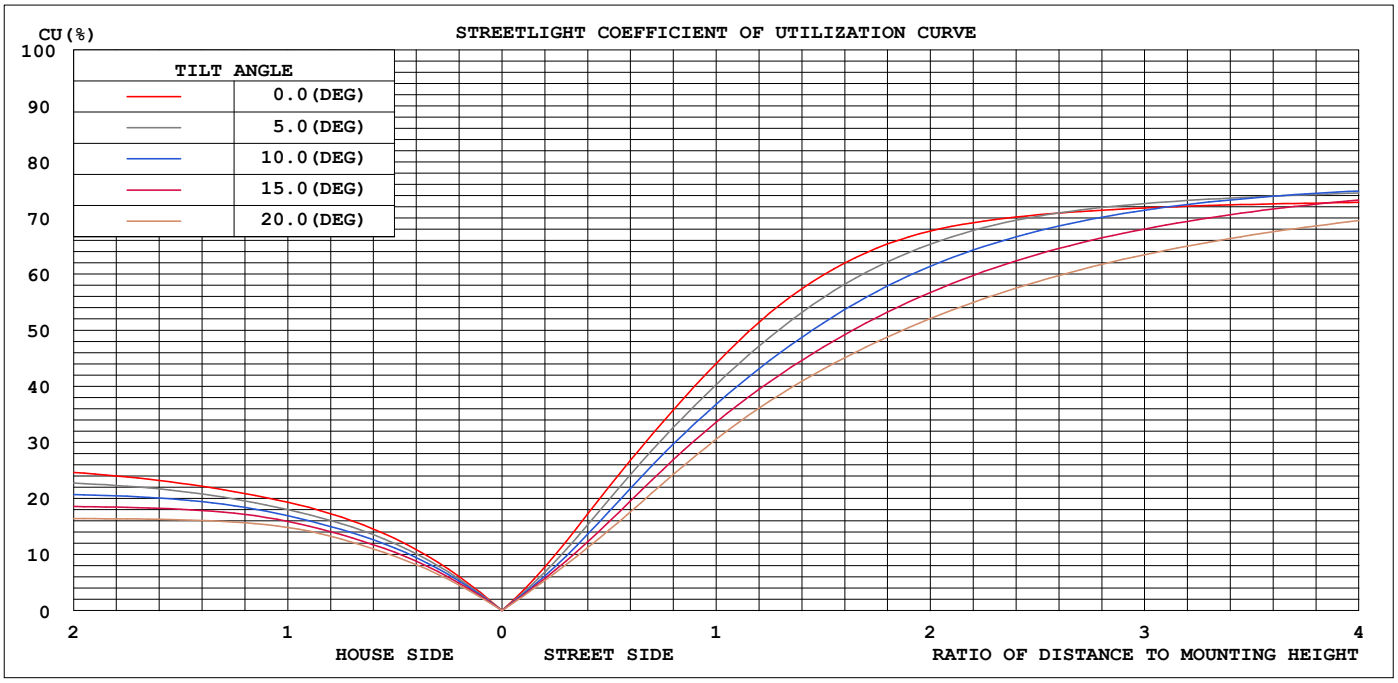
**IES:Type III - Very Short**
**CIE:Broad - Short**
**IES:Cut-off**
**CIE:Semi-cut-off**
**Max.At80:38.03cd/klm**
**Max.At90:1.900cd/klm**
**Max.80-90:38.03cd/klm**

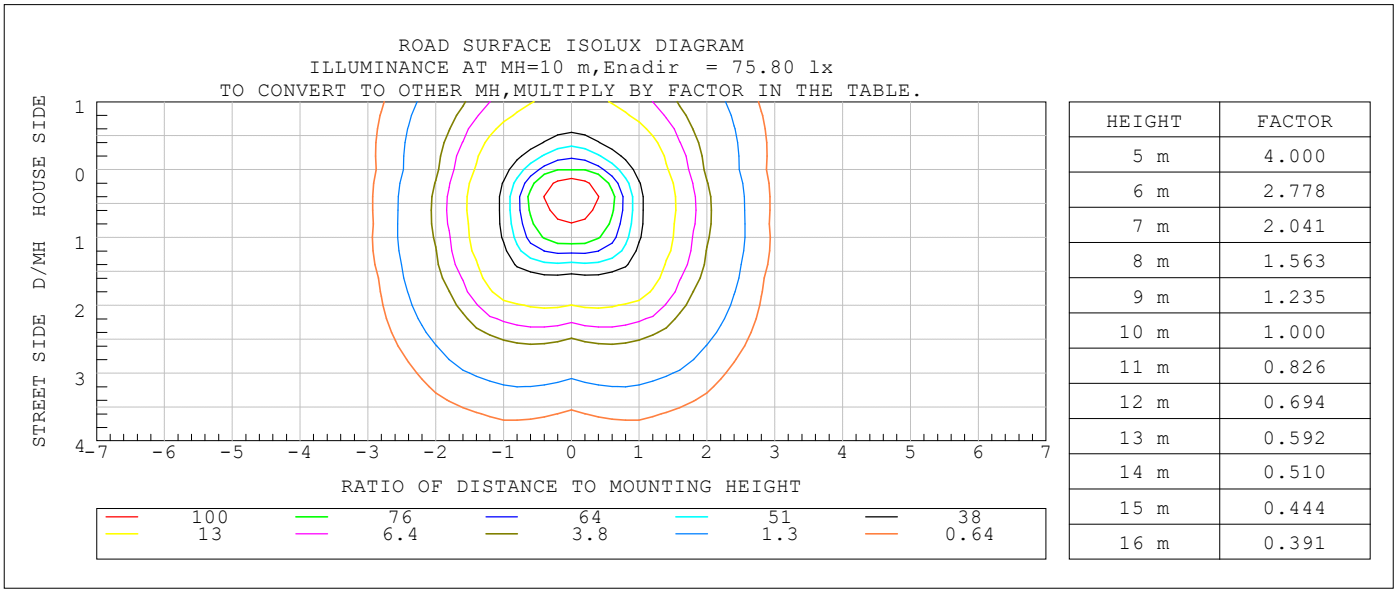
| ISOCANDELA DIAGRAM | |
|---|---|
| UNIT | cd |
| Imax=100% | 27921 |
| 90% | 25129 |
| 80% | 22336 |
| 70% | 19544 |
| 60% | 16752 |
| 50% | 13960 |
| 40% | 11168 |
| 30% | 8376 |
| 20% | 5584 |
| 10% | 2792 |
| 5% | 1396 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

# COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM




| HEIGHT | FACTOR |
|---|---|
| 5 m | 4.000 |
| 6 m | 2.778 |
| 7 m | 2.041 |
| 8 m | 1.563 |
| 9 m | 1.235 |
| 10 m | 1.000 |
| 11 m | 0.826 |
| 12 m | 0.694 |
| 13 m | 0.592 |
| 14 m | 0.510 |
| 15 m | 0.444 |
| 16 m | 0.391 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

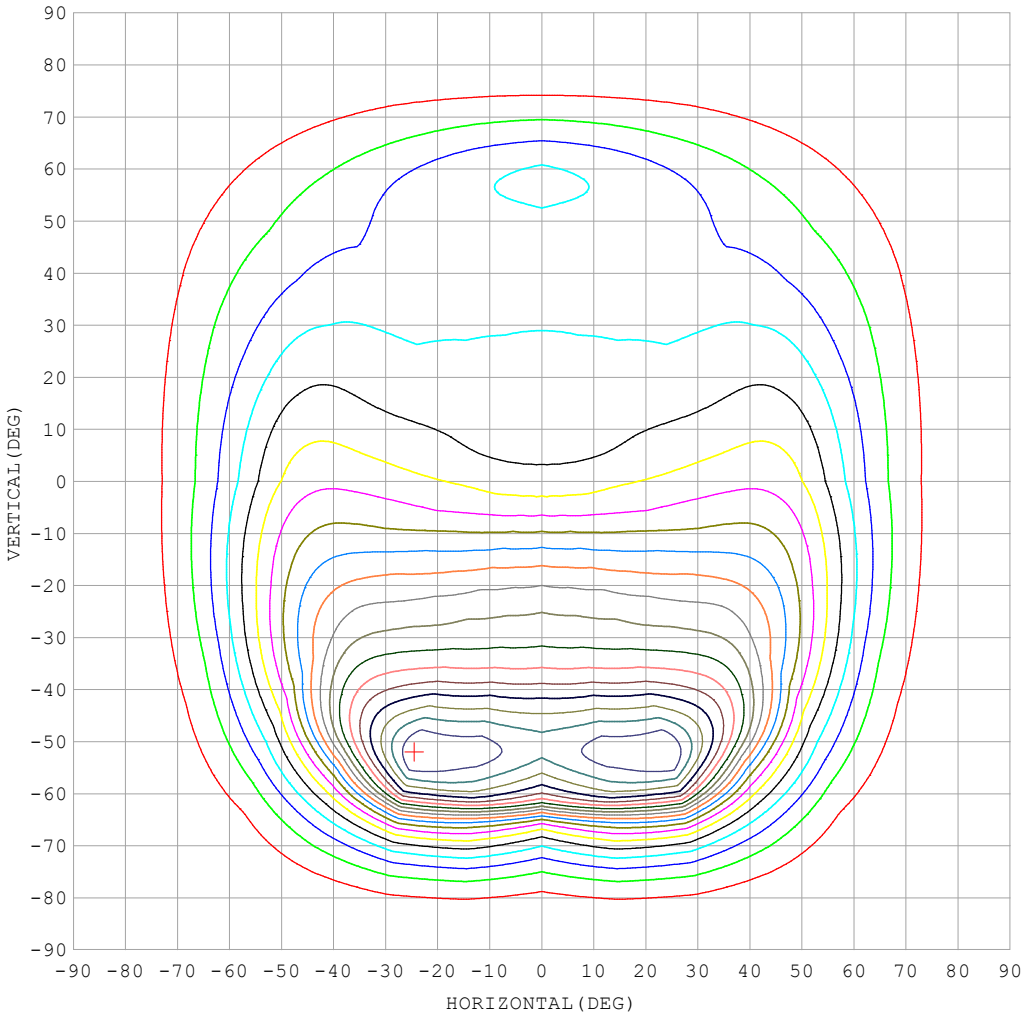
## ZONAL FLUX DIAGRAM

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 796.5 | 995.4 | 1133 | 995.4 | 796.5 | 661.3 | 652.8 | 661.3 | 0- 10 | 760.9 | 760.9 | 1.72,1.72 |
| 20 | 843.6 | 1297 | 1533 | 1297 | 843.6 | 644.5 | 601.4 | 644.5 | 10- 20 | 2572 | 3333 | 7.52,7.52 |
| 30 | 899.2 | 1536 | 1773 | 1536 | 899.2 | 582.5 | 554.2 | 582.5 | 20- 30 | 4664 | 7997 | 18,18 |
| 40 | 946.0 | 1743 | 2150 | 1743 | 946.0 | 530.9 | 517.0 | 530.9 | 30- 40 | 6867 | 14864 | 33.5,33.5 |
| 50 | 838.7 | 2031 | 2545 | 2031 | 838.7 | 462.1 | 527.8 | 462.1 | 40- 50 | 9299 | 24163 | 54.5,54.5 |
| 60 | 498.9 | 1744 | 2080 | 1744 | 498.9 | 374.9 | 571.2 | 374.9 | 50- 60 | 10581 | 34744 | 78.4,78.4 |
| 70 | 195.9 | 651.1 | 566.1 | 651.1 | 195.9 | 224.0 | 260.3 | 224.0 | 60- 70 | 7035 | 41779 | 94.3,94.3 |
| 80 | 49.60 | 118.6 | 107.0 | 118.6 | 49.60 | 57.20 | 49.63 | 57.20 | 70- 80 | 2258 | 44037 | 99.4,99.4 |
| 90 | 1.350 | 0.3601 | 0.4028 | 0.3601 | 1.350 | 6.880 | 8.019 | 6.880 | 80- 90 | 280.1 | 44317 | 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:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## ISOCANDELA DIAGRAM



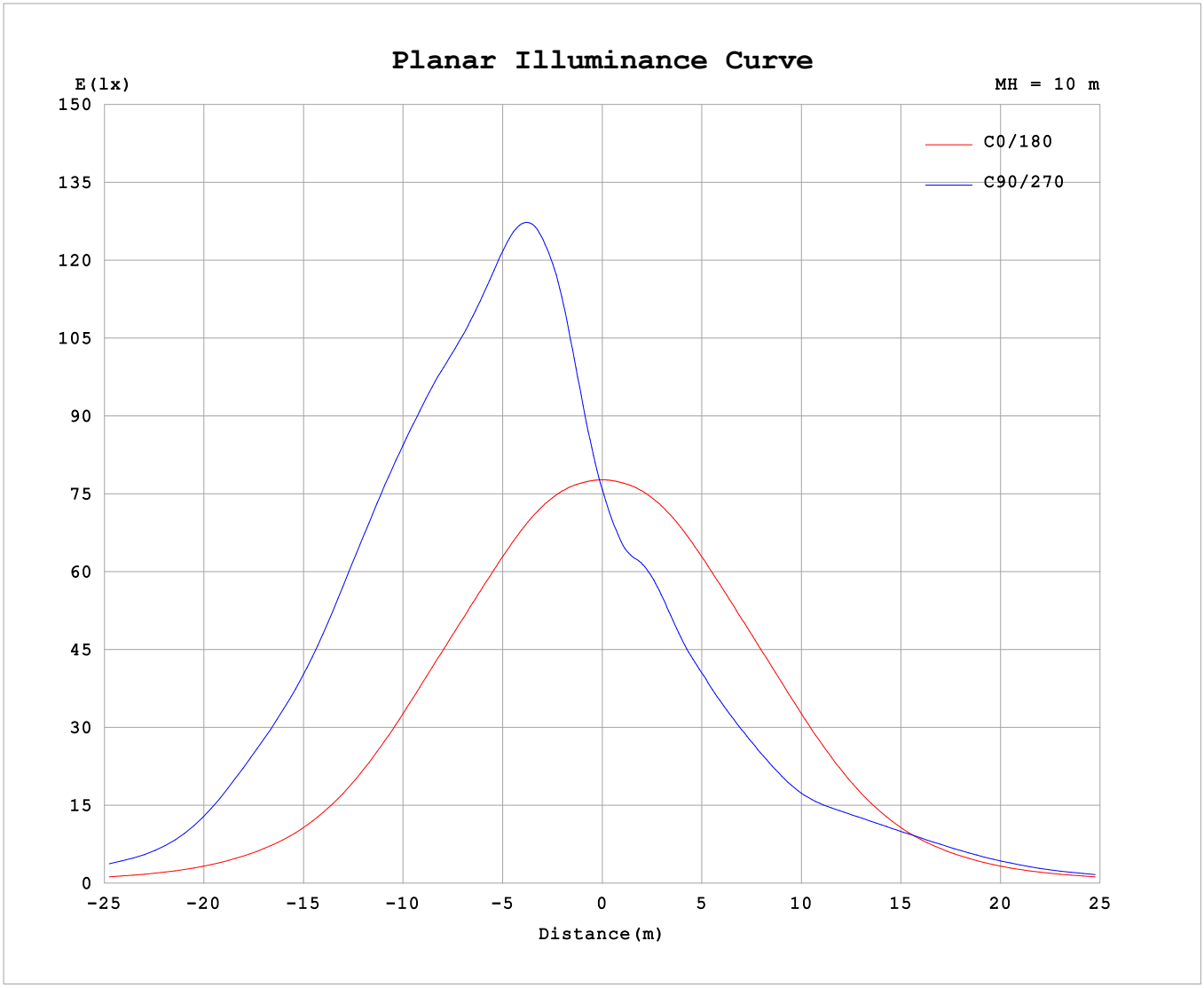

Imax:27896(H-24.5,V-52.0
(At:C=60.0,Gamma=56.0)

UNIT: cd

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## Planar Illuminance Curve



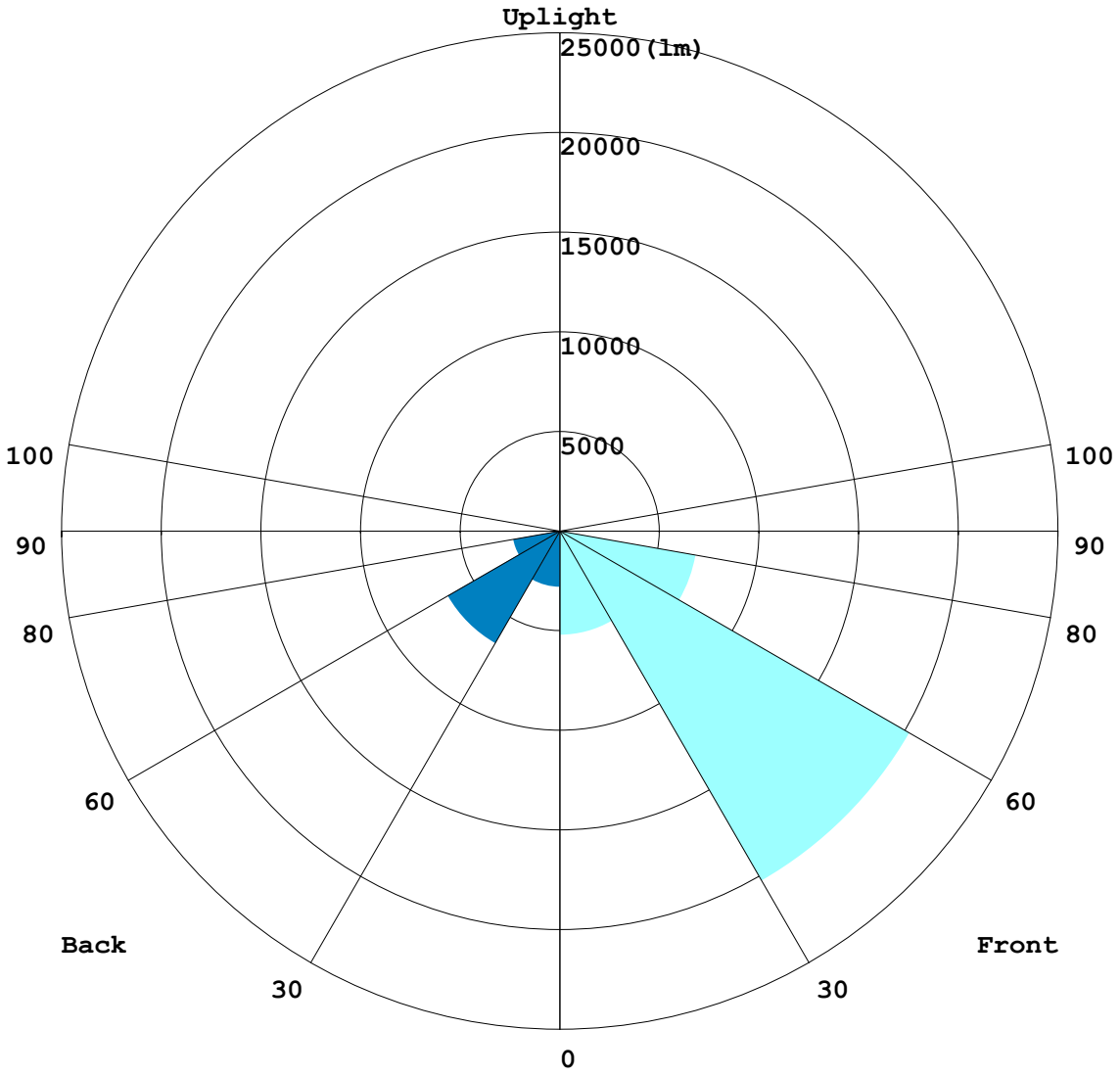

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## LCS REPORT

| | | |
|---|---|---|
| Test:U:229.90V I:1.0868A P:245.10W PF:0.9810 Freq:50.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44317.4x1 lm | | |
| NAME: FL72-500(250W)-F04803 | 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:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## BUG REPORT

| | | |
|---|---|---|
| Test:U:229.90V I:1.0868A P:245.10W PF:0.9810 Freq:50.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44317.4x1 lm | | |
| NAME: FL72-500(250W)-F04803 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

**IESNA Luminaire Flux Distribution Table:**

| Zone | Lumens | Luminaire % |
|---|---|---|
| FL - Front-Low(0-30) | 5201.2 | 11.7 |
| FM - Front-Medium(30-60) | 20254 | 45.7 |
| FH - Front-High(60-80) | 6913.7 | 15.6 |
| FVH - Front-Very High(80-90) | 173.61 | 0.4 |
| Total Forward Light | 32543 | 73.4 |
| BL - Back-Low(0-30) | 2796.1 | 6.3 |
| BM - Back-Medium(30-60) | 6492.5 | 14.6 |
| BH - Back-High(60-80) | 2379.5 | 5.4 |
| BVH - Back-Very High(80-90) | 106.51 | 0.2 |
| Total Back Light | 11775 | 26.6 |
| 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 | 11775 | 0 | 11775 |
| Street Side | 32543 | 0 | 32543 |

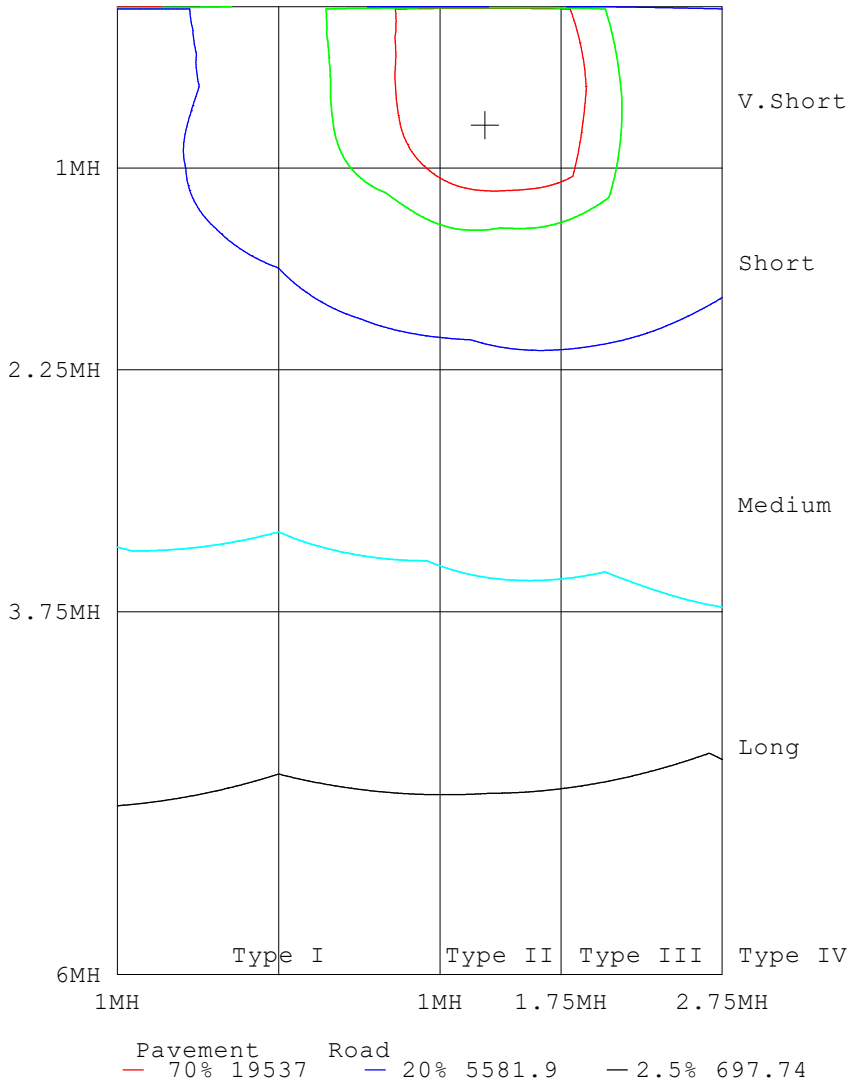
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## ROAD ISOCANDELA REPORT

| | | |
|---|---|---|
| Test:U:229.90V I:1.0868A P:245.10W PF:0.9810 Freq:50.01Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:44317.4x1 lm | | |
| NAME: FL72-500(250W)-F04803 | 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:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: X10cd

| C(DEG) / γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 777 | 759 | 759 | 757 | 759 | 757 | 759 | 757 | 759 | 757 | 759 | 759 | 777 | 759 | 759 | 757 | 759 | 757 | 759 |
| 5 | 782 | 795 | 829 | 856 | 889 | 901 | 914 | 901 | 889 | 856 | 829 | 795 | 782 | 735 | 712 | 693 | 682 | 673 | 672 |
| 10 | 797 | 844 | 922 | 995 | 1071 | 1109 | 1133 | 1109 | 1071 | 995 | 922 | 844 | 797 | 725 | 685 | 661 | 654 | 652 | 653 |
| 15 | 818 | 902 | 1029 | 1153 | 1262 | 1318 | 1346 | 1318 | 1262 | 1153 | 1029 | 902 | 818 | 724 | 678 | 661 | 650 | 642 | 641 |
| 20 | 844 | 964 | 1142 | 1297 | 1428 | 1500 | 1533 | 1500 | 1428 | 1297 | 1142 | 964 | 844 | 730 | 682 | 645 | 619 | 604 | 601 |
| 25 | 871 | 1029 | 1247 | 1424 | 1567 | 1638 | 1669 | 1638 | 1567 | 1424 | 1247 | 1029 | 871 | 740 | 669 | 611 | 583 | 572 | 572 |
| 30 | 899 | 1095 | 1345 | 1536 | 1675 | 1744 | 1773 | 1744 | 1675 | 1536 | 1345 | 1095 | 899 | 747 | 646 | 582 | 560 | 553 | 554 |
| 35 | 927 | 1158 | 1436 | 1635 | 1784 | 1883 | 1921 | 1883 | 1784 | 1635 | 1436 | 1158 | 927 | 751 | 628 | 557 | 537 | 536 | 539 |
| 40 | 946 | 1208 | 1512 | 1743 | 1966 | 2115 | 2150 | 2115 | 1966 | 1743 | 1512 | 1208 | 946 | 758 | 613 | 531 | 511 | 513 | 517 |
| 45 | 925 | 1213 | 1544 | 1885 | 2235 | 2392 | 2386 | 2392 | 2235 | 1885 | 1544 | 1213 | 925 | 743 | 594 | 500 | 478 | 483 | 492 |
| 50 | 839 | 1139 | 1493 | 2031 | 2541 | 2652 | 2545 | 2652 | 2541 | 2031 | 1493 | 1139 | 839 | 682 | 546 | 462 | 446 | 500 | 528 |
| 55 | 679 | 964 | 1314 | 2054 | 2782 | 2679 | 2429 | 2679 | 2782 | 2054 | 1314 | 964 | 679 | 564 | 469 | 416 | 459 | 543 | 581 |
| 60 | 499 | 731 | 1020 | 1744 | 2586 | 2414 | 2080 | 2414 | 2586 | 1744 | 1020 | 731 | 499 | 428 | 380 | 375 | 451 | 524 | 571 |
| 65 | 324 | 484 | 689 | 1119 | 1863 | 1516 | 1112 | 1516 | 1863 | 1119 | 689 | 484 | 324 | 316 | 295 | 321 | 363 | 403 | 433 |
| 70 | 196 | 258 | 408 | 651 | 915 | 815 | 566 | 815 | 915 | 651 | 408 | 258 | 196 | 212 | 212 | 224 | 236 | 251 | 260 |
| 75 | 109 | 126 | 174 | 322 | 443 | 415 | 281 | 415 | 443 | 322 | 174 | 126 | 109 | 125 | 126 | 127 | 128 | 123 | 121 |
| 80 | 49.6 | 54.6 | 60.4 | 119 | 169 | 163 | 107 | 163 | 169 | 119 | 60.4 | 54.6 | 49.6 | 57.6 | 56.2 | 57.2 | 55.8 | 52.7 | 49.6 |
| 85 | 11.1 | 11.8 | 11.5 | 19.5 | 33.4 | 32.4 | 21.1 | 32.4 | 33.4 | 19.5 | 11.5 | 11.8 | 11.1 | 13.6 | 13.9 | 14.3 | 14.7 | 13.7 | 13.3 |
| 90 | 1.35 | 0.31 | 0.33 | 0.36 | 0.39 | 0.39 | 0.40 | 0.39 | 0.39 | 0.36 | 0.33 | 0.31 | 1.35 | 3.18 | 4.73 | 6.88 | 8.35 | 8.42 | 8.02 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: X10cd

| C(DEG) / γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 757 | 759 | 757 | 759 | 759 | | | | | | | | | | | | | | |
| 5 | 673 | 682 | 693 | 712 | 735 | | | | | | | | | | | | | | |
| 10 | 652 | 654 | 661 | 685 | 725 | | | | | | | | | | | | | | |
| 15 | 642 | 650 | 661 | 678 | 724 | | | | | | | | | | | | | | |
| 20 | 604 | 619 | 645 | 682 | 730 | | | | | | | | | | | | | | |
| 25 | 572 | 583 | 611 | 669 | 740 | | | | | | | | | | | | | | |
| 30 | 553 | 560 | 582 | 646 | 747 | | | | | | | | | | | | | | |
| 35 | 536 | 537 | 557 | 628 | 751 | | | | | | | | | | | | | | |
| 40 | 513 | 511 | 531 | 613 | 758 | | | | | | | | | | | | | | |
| 45 | 483 | 478 | 500 | 594 | 743 | | | | | | | | | | | | | | |
| 50 | 500 | 446 | 462 | 546 | 682 | | | | | | | | | | | | | | |
| 55 | 543 | 459 | 416 | 469 | 564 | | | | | | | | | | | | | | |
| 60 | 524 | 451 | 375 | 380 | 428 | | | | | | | | | | | | | | |
| 65 | 403 | 363 | 321 | 295 | 316 | | | | | | | | | | | | | | |
| 70 | 251 | 236 | 224 | 212 | 212 | | | | | | | | | | | | | | |
| 75 | 123 | 128 | 127 | 126 | 125 | | | | | | | | | | | | | | |
| 80 | 52.7 | 55.8 | 57.2 | 56.2 | 57.6 | | | | | | | | | | | | | | |
| 85 | 13.7 | 14.7 | 14.3 | 13.9 | 13.6 | | | | | | | | | | | | | | |
| 90 | 8.42 | 8.35 | 6.88 | 4.73 | 3.18 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-15

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.491
Humidity:65.0%
Test Distance:10.250m [K=1.0000]
Remarks: