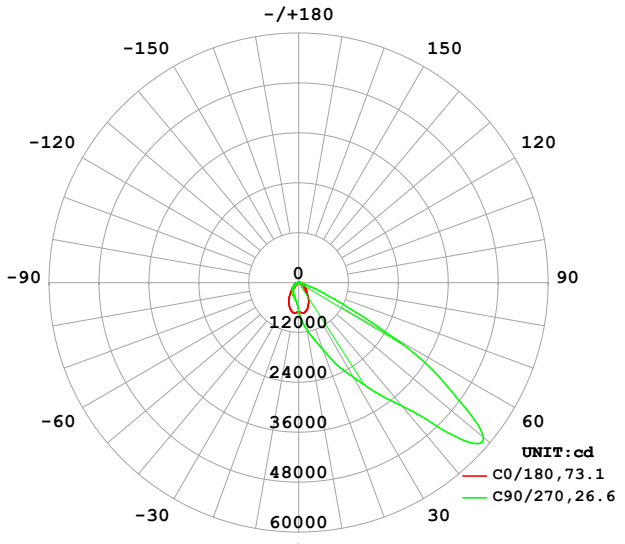
# STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|---|---|---|
| Test:U:229.90V I:1.0868A P:245.10W PF:0.9810 Freq:50.00Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27109.9x1 lm | | |
| NAME: FL72-500(250W)-F04802-G9 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

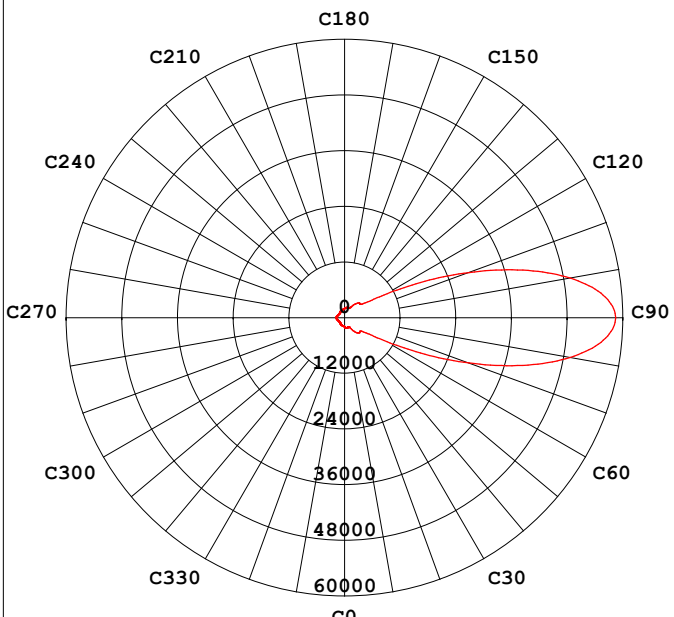
| DATA OF LAMP | | PHOTOMETRIC DATA | | Eff: 110.61 lm/W | |
|---|---|---|---|---|---|
| MODEL | / | Imax(cd) | 58441 | η street_up(%) | 0.0 |
| NOMINAL POWER(W) | / | LOR(%) | 100.0 | η street_down(%) | 82.6 |
| RATED VOLTAGE(V) | / | TOTAL FLUX(lm) | 27110 | η house_up(%) | 0.0 |
| NOMINAL FLUX(lm) | 27109.9 | MAXIMUM @(C,γ ) | 90,49.0 | η house_down(%) | 17.4 |
| 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%):49.8 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

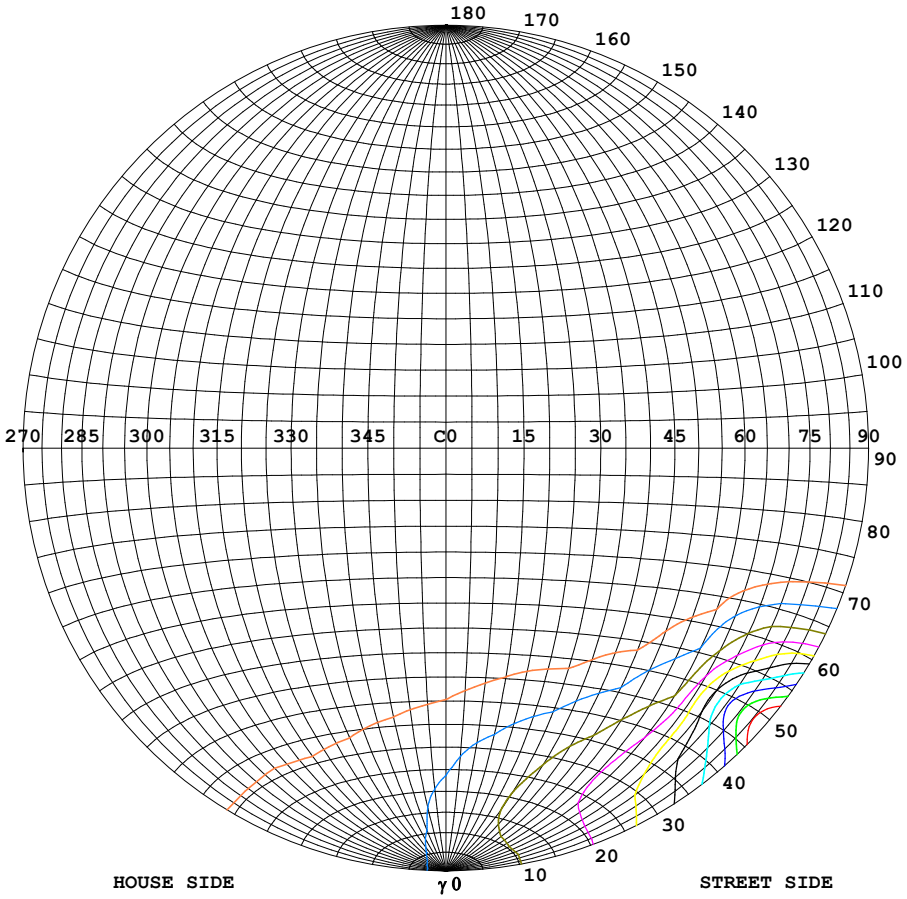



HOUSE SIDE Max @ γ = 49.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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:**

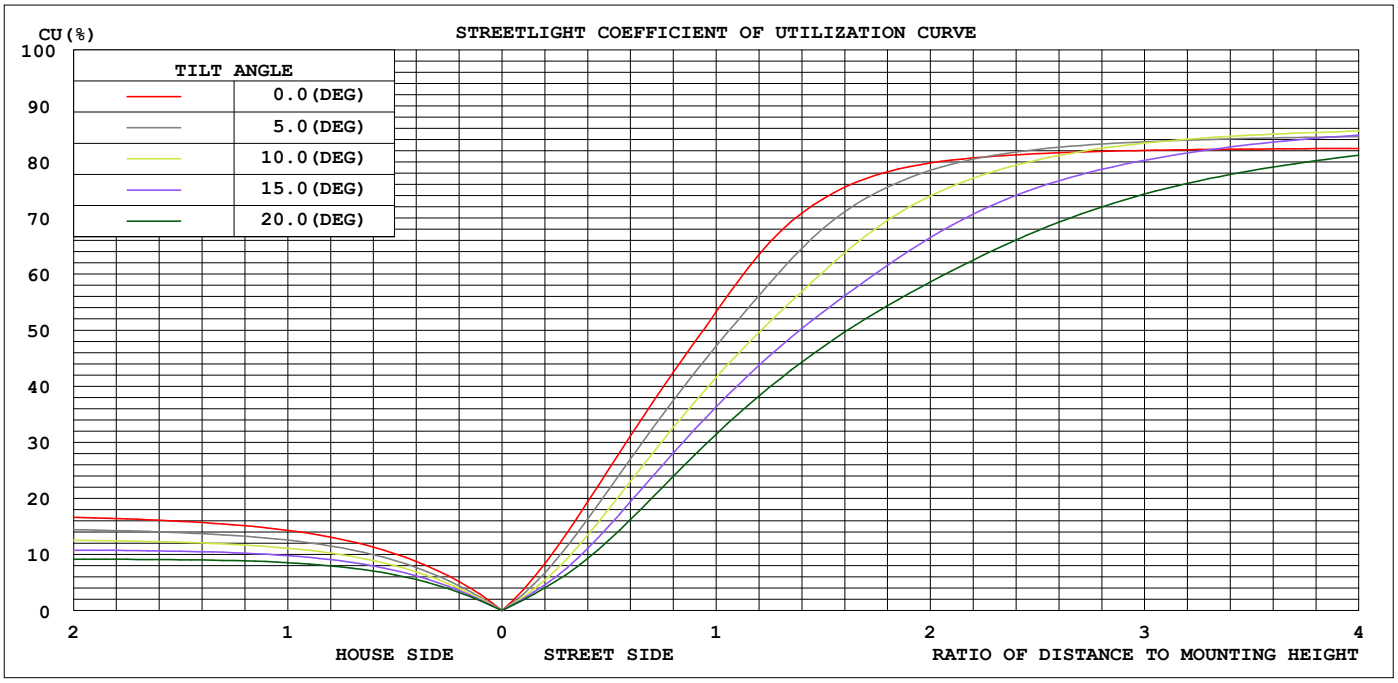
**IES:Type II - Very Short**
**CIE:Average - Short**
**IES:Cut-off**
**CIE:Full cut-off**
**Max.At80:12.99cd/klm**
**Max.At90:1.705cd/klm**
**Max.80-90:12.99cd/klm**

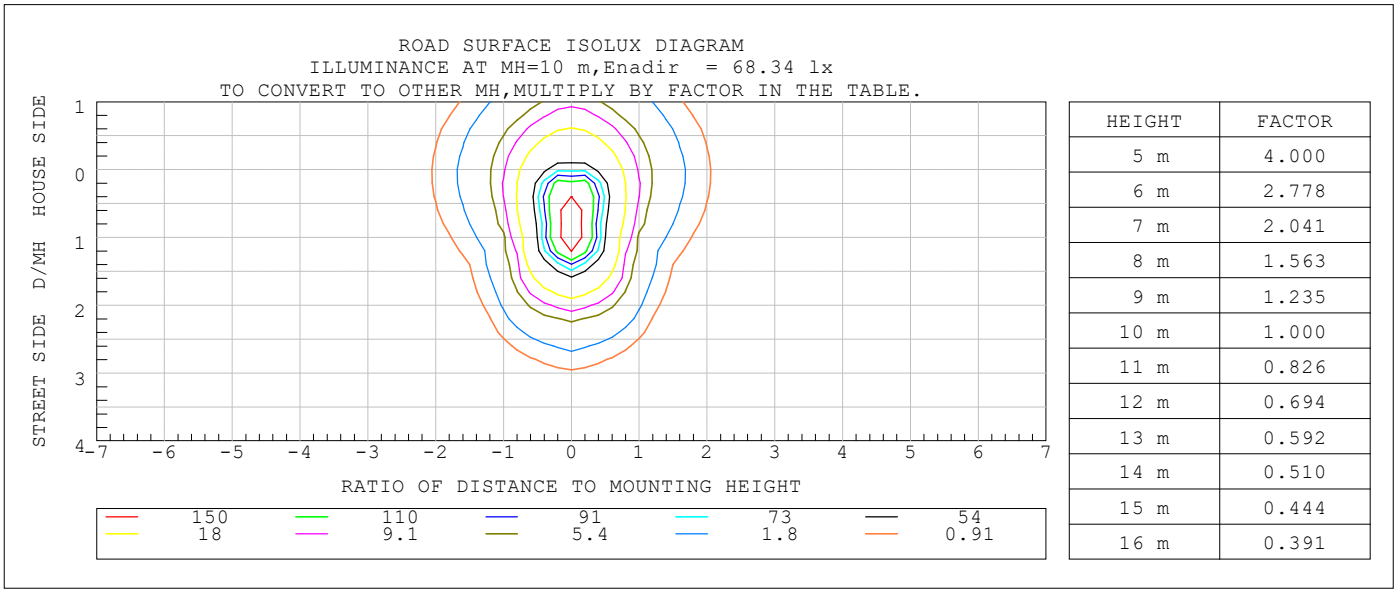
| ISOCANDELA DIAGRAM | |
|---|---|
| UNIT | cd |
| Imax=100% | 58441 |
| 90% | 52597 |
| 80% | 46753 |
| 70% | 40909 |
| 60% | 35064 |
| 50% | 29220 |
| 40% | 23376 |
| 30% | 17532 |
| 20% | 11688 |
| 10% | 5844 |
| 5% | 2922 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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:2026-01-16

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:

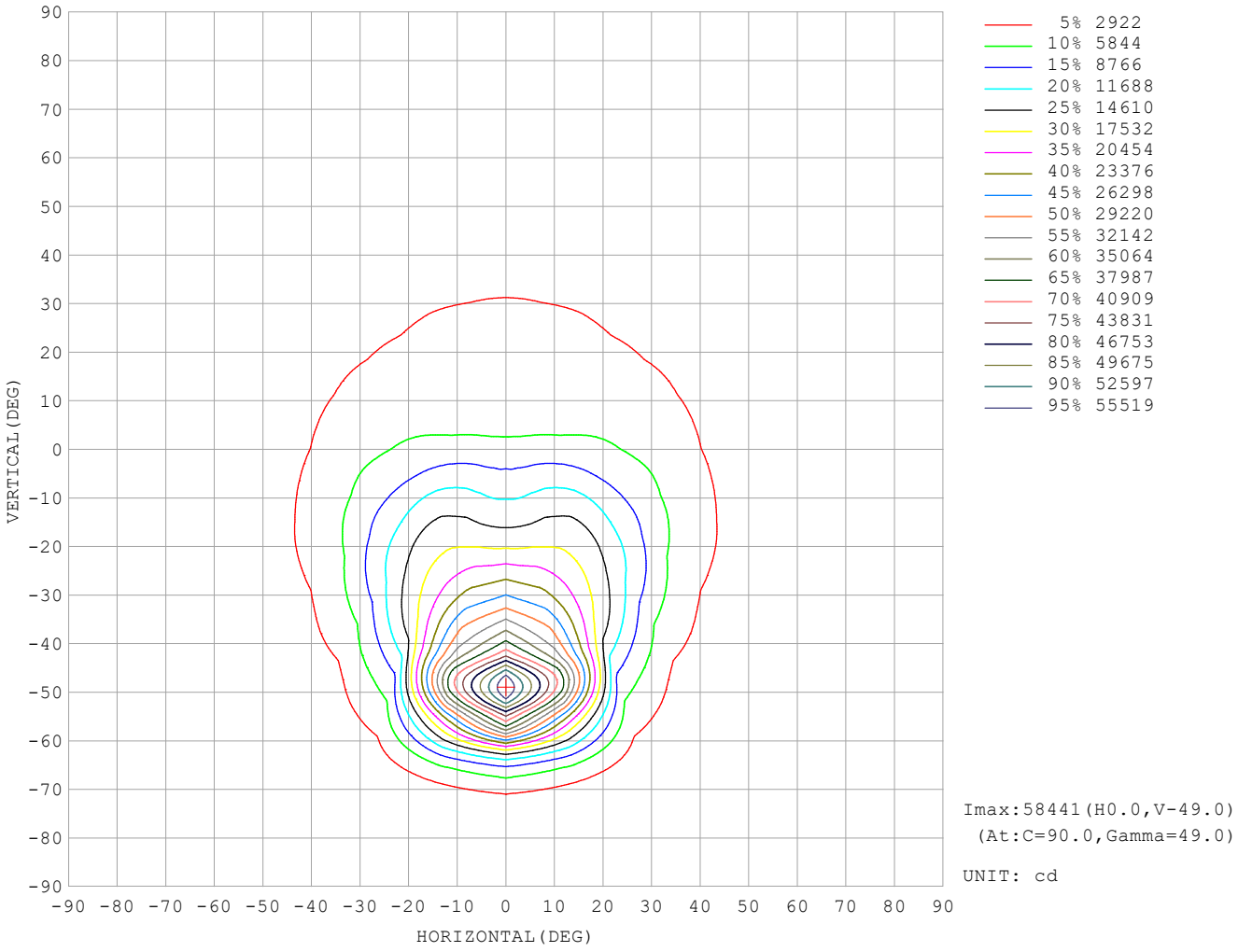
## ZONAL FLUX DIAGRAM

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 738.8 | 1105 | 1154 | 1105 | 738.8 | 472.1 | 435.6 | 472.1 | 0- 10 | 698.7 | 698.7 | 2.58,2.58 |
| 20 | 642.6 | 1473 | 1720 | 1473 | 642.6 | 389.0 | 352.3 | 389.0 | 10- 20 | 2369 | 3067 | 11.3,11.3 |
| 30 | 488.4 | 1413 | 2629 | 1413 | 488.4 | 303.7 | 302.8 | 303.7 | 20- 30 | 4167 | 7234 | 26.7,26.7 |
| 40 | 295.7 | 928.3 | 3880 | 928.3 | 295.7 | 227.3 | 240.7 | 227.3 | 30- 40 | 5522 | 12756 | 47.1,47.1 |
| 50 | 200.2 | 424.1 | 5794 | 424.1 | 200.2 | 149.4 | 179.6 | 149.4 | 40- 50 | 6491 | 19247 | 71,71 |
| 60 | 129.4 | 150.8 | 2590 | 150.8 | 129.4 | 98.29 | 123.8 | 98.29 | 50- 60 | 5218 | 24465 | 90.2,90.2 |
| 70 | 76.14 | 62.01 | 368.9 | 62.01 | 76.14 | 52.25 | 55.12 | 52.25 | 60- 70 | 1992 | 26457 | 97.6,97.6 |
| 80 | 27.56 | 16.21 | 35.21 | 16.21 | 27.56 | 15.94 | 14.67 | 15.94 | 70- 80 | 562.2 | 27019 | 99.7,99.7 |
| 90 | 0.4669 | 0.1186 | 0.1429 | 0.1186 | 0.4669 | 1.006 | 4.623 | 1.006 | 80- 90 | 90.90 | 27110 | 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:2026-01-16

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:

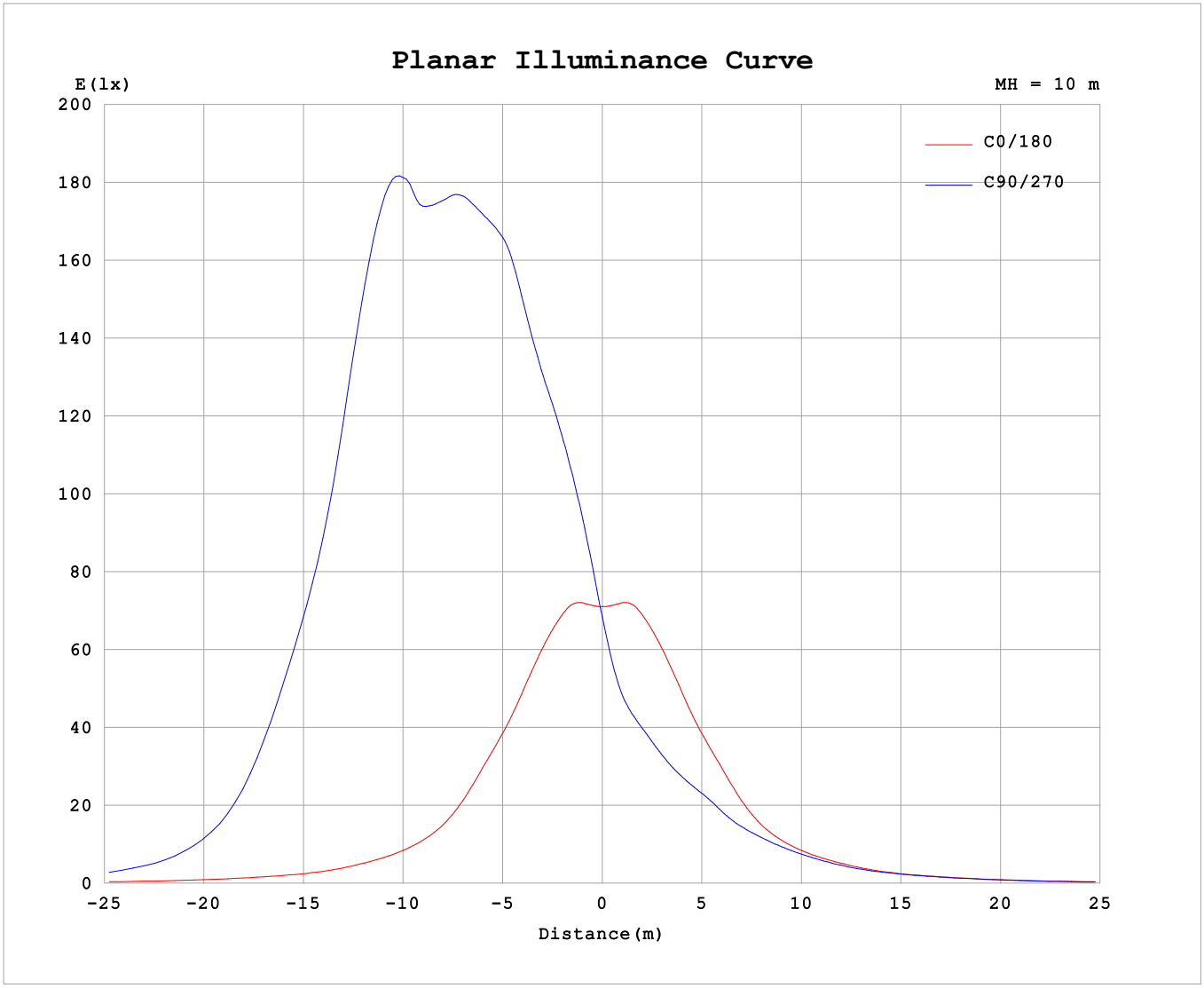
## ISOCANDELA DIAGRAM




C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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



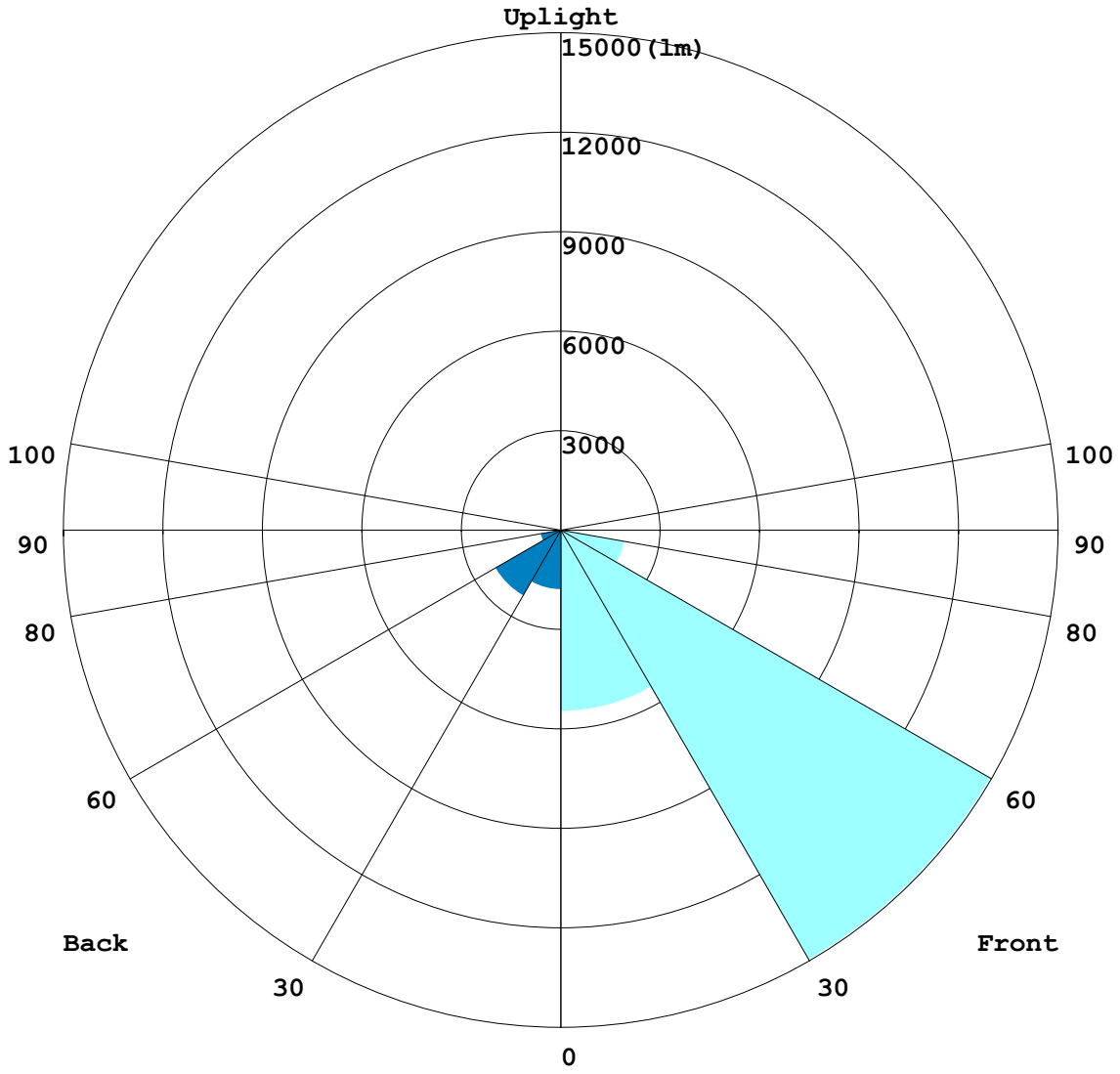

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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:50.00Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27109.9x1 lm | | |
| NAME: FL72-500(250W)-F04802-G9 | 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:2026-01-16

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:50.00Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27109.9x1 lm | | |
| NAME: FL72-500(250W)-F04802-G9 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

**IESNA Luminaire Flux Distribution Table:**

| Zone | Lumens | Luminaire % |
|---|---|---|
| FL - Front-Low(0-30) | 5452 | 20.1 |
| FM - Front-Medium(30-60) | 14955 | 55.2 |
| FH - Front-High(60-80) | 1940.7 | 7.2 |
| FVH - Front-Very High(80-90) | 49.83 | 0.2 |
| Total Forward Light | 22398 | 82.6 |

| | | |
|---|---|---|
| BL - Back-Low(0-30) | 1781.7 | 6.6 |
| BM - Back-Medium(30-60) | 2275.8 | 8.4 |
| BH - Back-High(60-80) | 613.3 | 2.3 |
| BVH - Back-Very High(80-90) | 41.068 | 0.2 |
| Total Back Light | 4711.9 | 17.4 |

| | | |
|---|---|---|
| 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 | B3-U0-G2 |

| Zone | Downward Lumens | Upward Lumens | Total Lumens |
|---|---|---|---|
| House Side | 4711.9 | 0 | 4711.9 |
| Street Side | 22398 | 0 | 22398 |

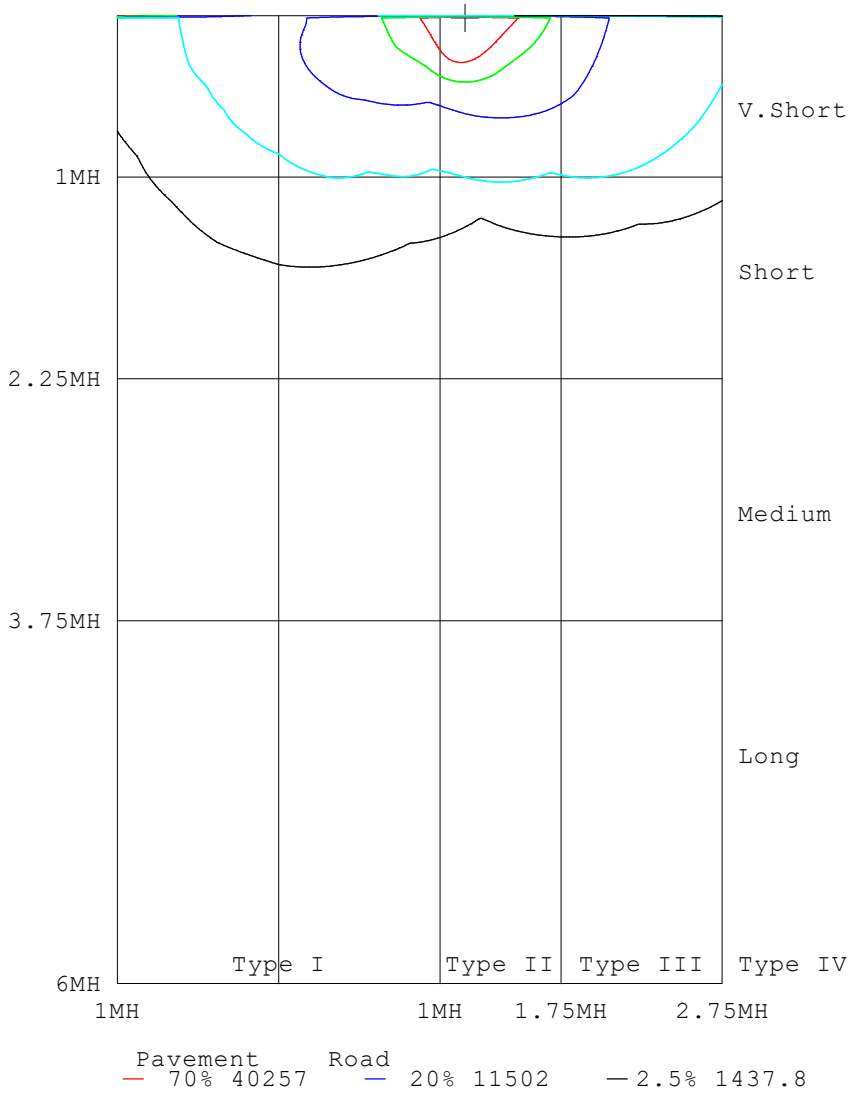
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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:50.00Hz<br>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:27109.9x1 lm | | |
| NAME: FL72-500(250W)-F04802-G9 | 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:2026-01-16

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 | 711 | 683 | 684 | 682 | 685 | 682 | 685 | 682 | 685 | 682 | 684 | 683 | 711 | 683 | 684 | 682 | 685 | 682 | 685 |
| 5 | 727 | 761 | 822 | 865 | 900 | 910 | 923 | 910 | 900 | 865 | 822 | 761 | 727 | 640 | 592 | 552 | 527 | 510 | 508 |
| 10 | 739 | 857 | 1008 | 1105 | 1147 | 1145 | 1154 | 1145 | 1147 | 1105 | 1008 | 857 | 739 | 593 | 517 | 472 | 449 | 438 | 436 |
| 15 | 705 | 887 | 1141 | 1327 | 1406 | 1397 | 1397 | 1397 | 1406 | 1327 | 1141 | 887 | 705 | 539 | 467 | 428 | 407 | 394 | 391 |
| 20 | 643 | 846 | 1173 | 1473 | 1632 | 1695 | 1720 | 1695 | 1632 | 1473 | 1173 | 846 | 643 | 490 | 427 | 389 | 366 | 355 | 352 |
| 25 | 562 | 760 | 1102 | 1502 | 1797 | 2054 | 2180 | 2054 | 1797 | 1502 | 1102 | 760 | 562 | 430 | 377 | 346 | 334 | 329 | 329 |
| 30 | 488 | 668 | 973 | 1413 | 1869 | 2374 | 2629 | 2374 | 1869 | 1413 | 973 | 668 | 488 | 375 | 324 | 304 | 304 | 300 | 303 |
| 35 | 387 | 525 | 785 | 1222 | 1838 | 2726 | 3212 | 2726 | 1838 | 1222 | 785 | 525 | 387 | 316 | 279 | 266 | 263 | 262 | 266 |
| 40 | 296 | 383 | 548 | 928 | 1673 | 3066 | 3880 | 3066 | 1673 | 928 | 548 | 383 | 296 | 257 | 237 | 227 | 217 | 233 | 241 |
| 45 | 240 | 297 | 382 | 627 | 1309 | 3593 | 5128 | 3593 | 1309 | 627 | 382 | 297 | 240 | 212 | 202 | 182 | 181 | 201 | 213 |
| 50 | 200 | 217 | 237 | 424 | 911 | 3903 | 5794 | 3903 | 911 | 424 | 237 | 217 | 200 | 178 | 168 | 149 | 149 | 167 | 180 |
| 55 | 156 | 164 | 173 | 232 | 623 | 2681 | 4378 | 2681 | 623 | 232 | 173 | 164 | 156 | 148 | 130 | 123 | 120 | 135 | 147 |
| 60 | 129 | 130 | 132 | 151 | 394 | 1563 | 2590 | 1563 | 394 | 151 | 132 | 130 | 129 | 118 | 104 | 98.3 | 95.0 | 110 | 124 |
| 65 | 102 | 104 | 97.2 | 97.7 | 224 | 694 | 944 | 694 | 224 | 97.7 | 97.2 | 104 | 102 | 96.9 | 81.8 | 73.6 | 70.3 | 82.1 | 93.5 |
| 70 | 76.1 | 73.2 | 69.6 | 62.0 | 123 | 256 | 369 | 256 | 123 | 62.0 | 69.6 | 73.2 | 76.1 | 72.6 | 62.0 | 52.3 | 47.0 | 49.8 | 55.1 |
| 75 | 55.3 | 55.4 | 76.7 | 34.7 | 55.1 | 85.2 | 114 | 85.2 | 55.1 | 34.7 | 76.7 | 55.4 | 55.3 | 50.2 | 44.2 | 33.2 | 28.3 | 28.8 | 31.3 |
| 80 | 27.6 | 26.5 | 28.4 | 16.2 | 18.9 | 24.5 | 35.2 | 24.5 | 18.9 | 16.2 | 28.4 | 26.5 | 27.6 | 29.0 | 23.1 | 15.9 | 14.2 | 13.9 | 14.7 |
| 85 | 11.9 | 8.74 | 17.6 | 4.05 | 3.16 | 4.36 | 7.07 | 4.36 | 3.16 | 4.05 | 17.6 | 8.74 | 11.9 | 7.15 | 5.67 | 4.34 | 4.16 | 4.80 | 5.58 |
| 90 | 0.47 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.47 | 0.83 | 0.82 | 1.01 | 1.95 | 3.64 | 4.62 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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 | 682 | 685 | 682 | 684 | 683 | | | | | | | | | | | | | | |
| 5 | 510 | 527 | 552 | 592 | 640 | | | | | | | | | | | | | | |
| 10 | 438 | 449 | 472 | 517 | 593 | | | | | | | | | | | | | | |
| 15 | 394 | 407 | 428 | 467 | 539 | | | | | | | | | | | | | | |
| 20 | 355 | 366 | 389 | 427 | 490 | | | | | | | | | | | | | | |
| 25 | 329 | 334 | 346 | 377 | 430 | | | | | | | | | | | | | | |
| 30 | 300 | 304 | 304 | 324 | 375 | | | | | | | | | | | | | | |
| 35 | 262 | 263 | 266 | 279 | 316 | | | | | | | | | | | | | | |
| 40 | 233 | 217 | 227 | 237 | 257 | | | | | | | | | | | | | | |
| 45 | 201 | 181 | 182 | 202 | 212 | | | | | | | | | | | | | | |
| 50 | 167 | 149 | 149 | 168 | 178 | | | | | | | | | | | | | | |
| 55 | 135 | 120 | 123 | 130 | 148 | | | | | | | | | | | | | | |
| 60 | 110 | 95.0 | 98.3 | 104 | 118 | | | | | | | | | | | | | | |
| 65 | 82.1 | 70.3 | 73.6 | 81.8 | 96.9 | | | | | | | | | | | | | | |
| 70 | 49.8 | 47.0 | 52.3 | 62.0 | 72.6 | | | | | | | | | | | | | | |
| 75 | 28.8 | 28.3 | 33.2 | 44.2 | 50.2 | | | | | | | | | | | | | | |
| 80 | 13.9 | 14.2 | 15.9 | 23.1 | 29.0 | | | | | | | | | | | | | | |
| 85 | 4.80 | 4.16 | 4.34 | 5.67 | 7.15 | | | | | | | | | | | | | | |
| 90 | 3.64 | 1.95 | 1.01 | 0.82 | 0.83 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:ZKL
Test Date:2026-01-16

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: