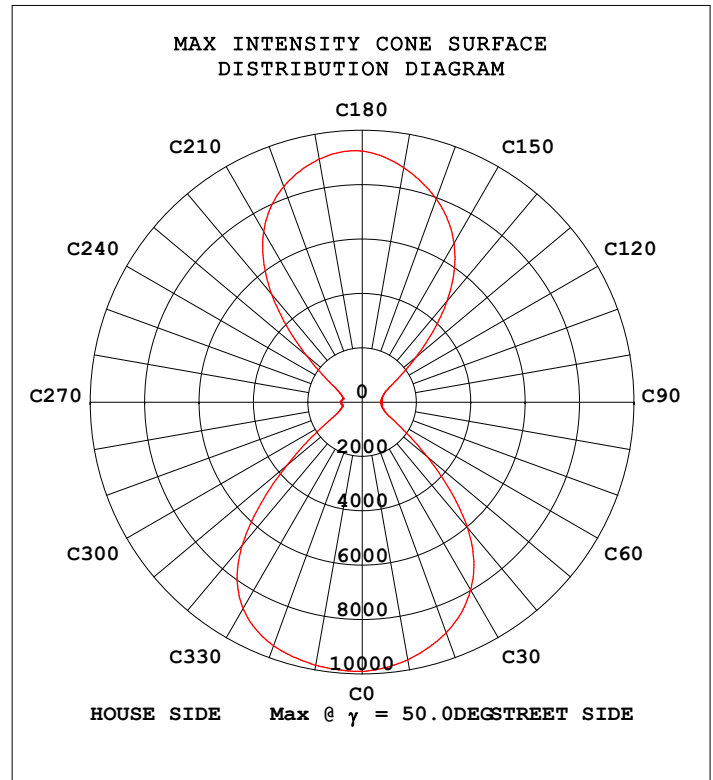
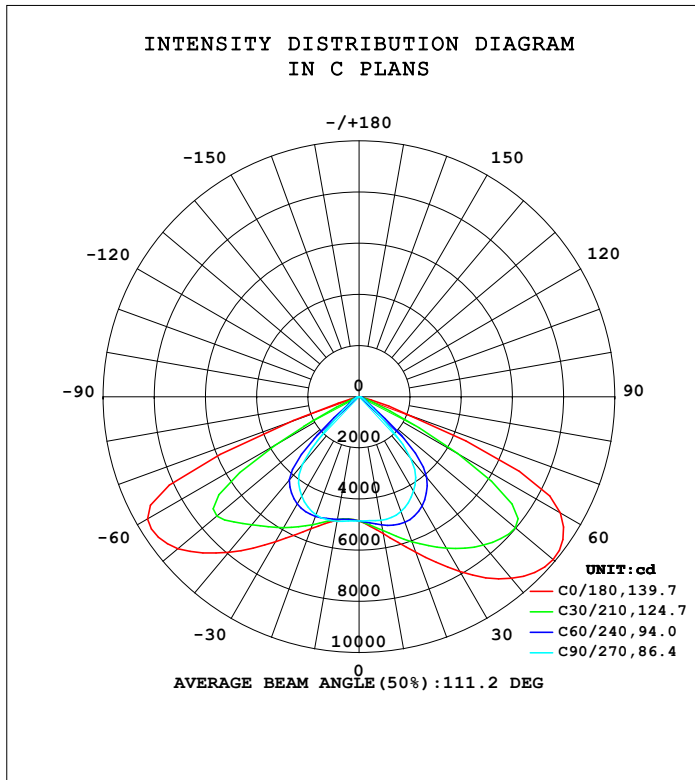


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|---------------|--------------------------|--------|------------------------|---------|
| MODEL | 98Prague150WW | Imax (cd) | 9901 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | 150 | LOR (%) | 100.7 | η street_down (%) | 49.3 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 18122 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 18000 | MAXIMUM @ (C, γ) | 0,50.0 | η house_down (%) | 51.4 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | 76 FLASHAREA (m2) | 0.00100 |
| TEST VOLTAGE (V) | 230 | η down (%) | 100.7 | SLI | 17.700 |

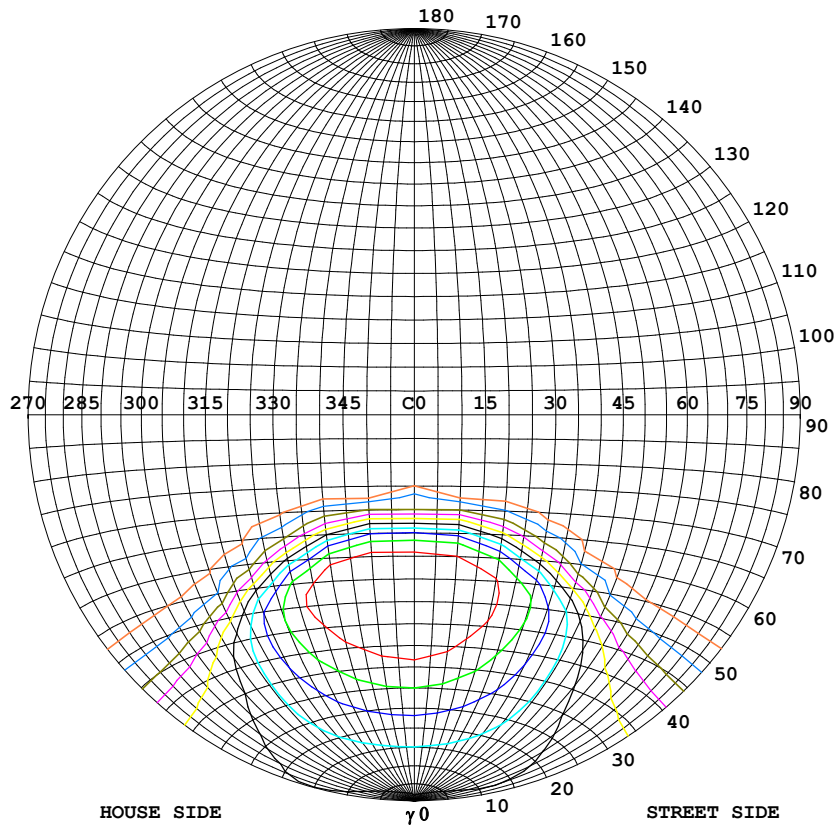


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:22 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |



Classification:

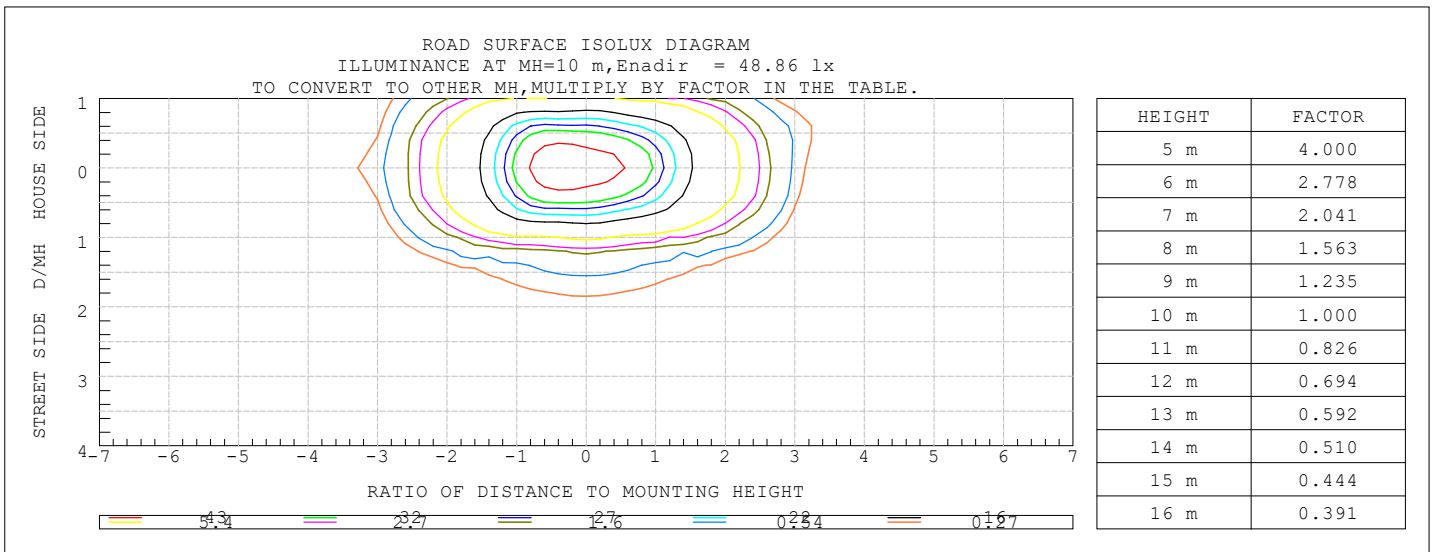
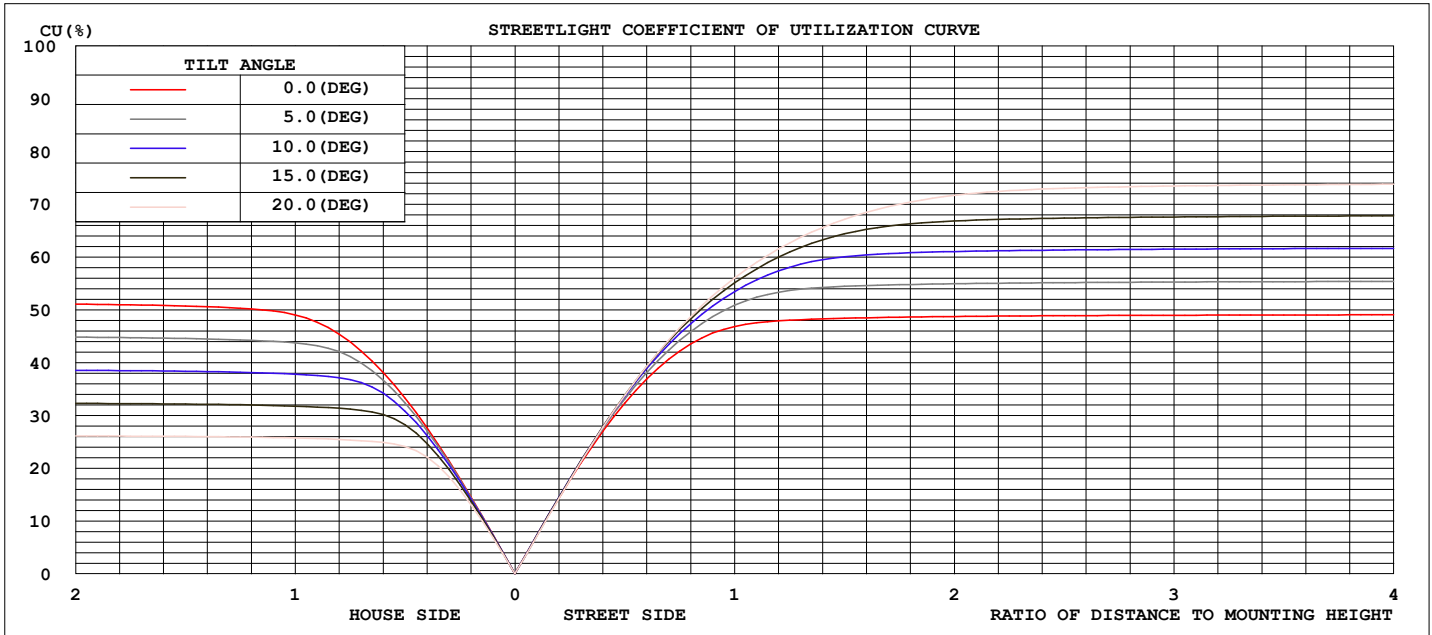
IES:Type I - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:8.156cd/klm
 Max.At90:0.9904cd/klm
 Max.80-90:8.156cd/klm

| ISOCANDELA DIAGRAM | |
|------------------------|------|
| UNIT | cd |
| I _{max} =100% | 9901 |
| 90% | 8911 |
| 80% | 7921 |
| 70% | 6930 |
| 60% | 5940 |
| 50% | 4950 |
| 40% | 3960 |
| 30% | 2970 |
| 20% | 1980 |
| 10% | 990 |
| 5% | 495 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:22 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 22 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

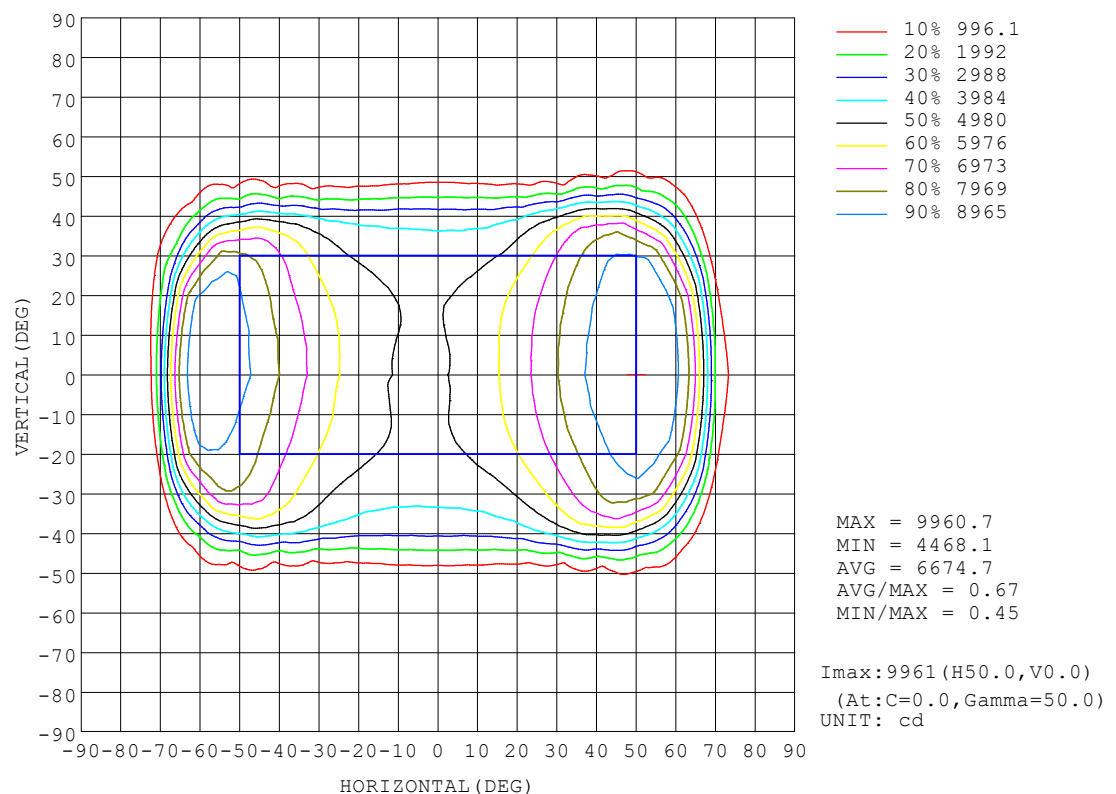
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 5431 | 5205 | 4904 | 4835 | 4890 | 4867 | 4941 | 5246 | 0- 10 | 472.4 | 472.4 | 2.61,2.62 |
| 20 | 6463 | 5630 | 4783 | 5064 | 5493 | 5152 | 4919 | 5790 | 10- 20 | 1486 | 1958 | 10.8,10.9 |
| 30 | 7885 | 5864 | 4251 | 5125 | 6539 | 5349 | 4485 | 6206 | 20- 30 | 2581 | 4539 | 25,25.2 |
| 40 | 9267 | 5844 | 3167 | 4915 | 7930 | 5290 | 3451 | 6430 | 30- 40 | 3621 | 8160 | 45,45.3 |
| 50 | 9901 | 4573 | 704.5 | 3721 | 9239 | 3941 | 813.2 | 5254 | 40- 50 | 4123 | 12283 | 67.8,68.2 |
| 60 | 9086 | 712.7 | 272.7 | 566.8 | 9553 | 565.9 | 303.9 | 905.3 | 50- 60 | 3589 | 15872 | 87.6,88.2 |
| 70 | 1952 | 218.8 | 145.1 | 213.7 | 2733 | 222.5 | 143.5 | 255.1 | 60- 70 | 1954 | 17826 | 98.4,99 |
| 80 | 101.1 | 81.40 | 74.19 | 75.00 | 108.9 | 69.53 | 70.88 | 72.41 | 70- 80 | 256.5 | 18082 | 99.8,100 |
| 90 | 17.83 | 6.315 | 1.634 | 6.448 | 13.86 | 4.369 | 1.844 | 4.833 | 80- 90 | 39.49 | 18122 | 100,101 |
| 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:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:22 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

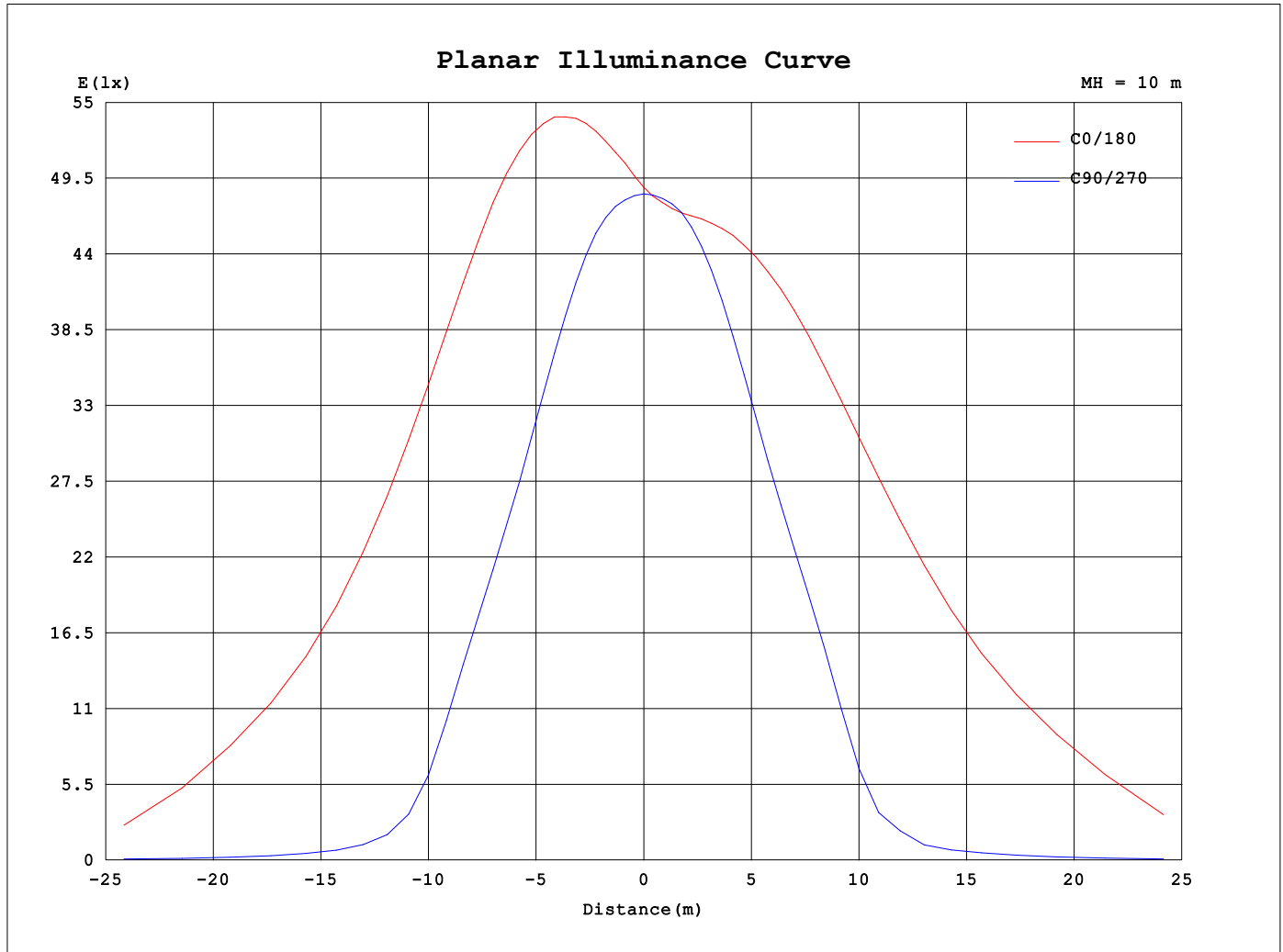
| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:22 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

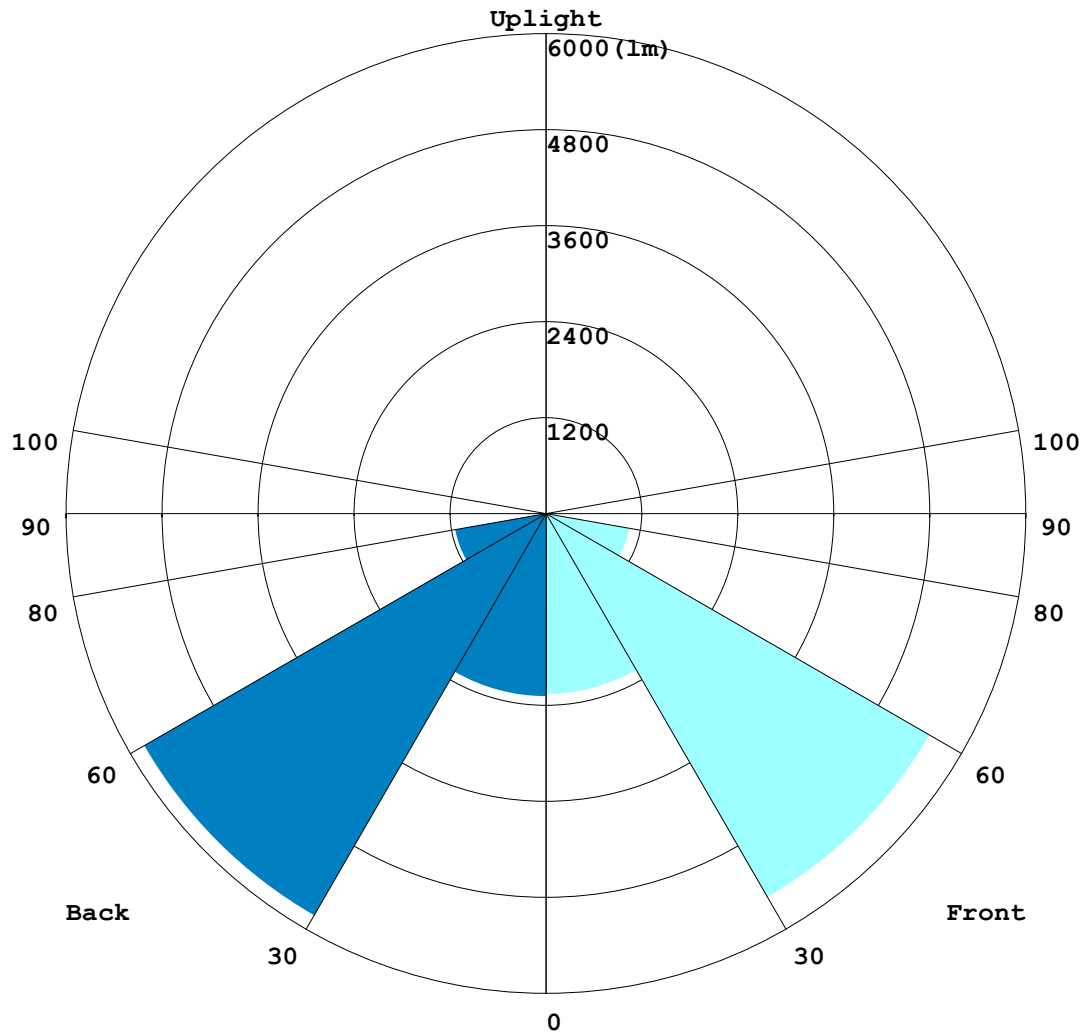


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 22 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

LCS REPORT

| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 22 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

BUG REPORT

| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 2256.3 | 12.5 |
| FM - Front-Medium(30-60) | 5535.1 | 30.5 |
| FH - Front-High(60-80) | 1059.3 | 5.8 |
| FVH - Front-Very High(80-90) | 20.947 | 0.1 |
| Total Forward Light | 8871.6 | 49.0 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 2282.5 | 12.6 |
| BM - Back-Medium(30-60) | 5798.1 | 32.0 |
| BH - Back-High(60-80) | 1151.1 | 6.4 |
| BVH - Back-Very High(80-90) | 18.546 | 0.1 |
| Total Back Light | 9250.2 | 51.0 |

| | | |
|----------------------------|---|-----|
| 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 | 9250.2 | 0 | 9250.2 |
| Street Side | 8871.6 | 0 | 8871.6 |

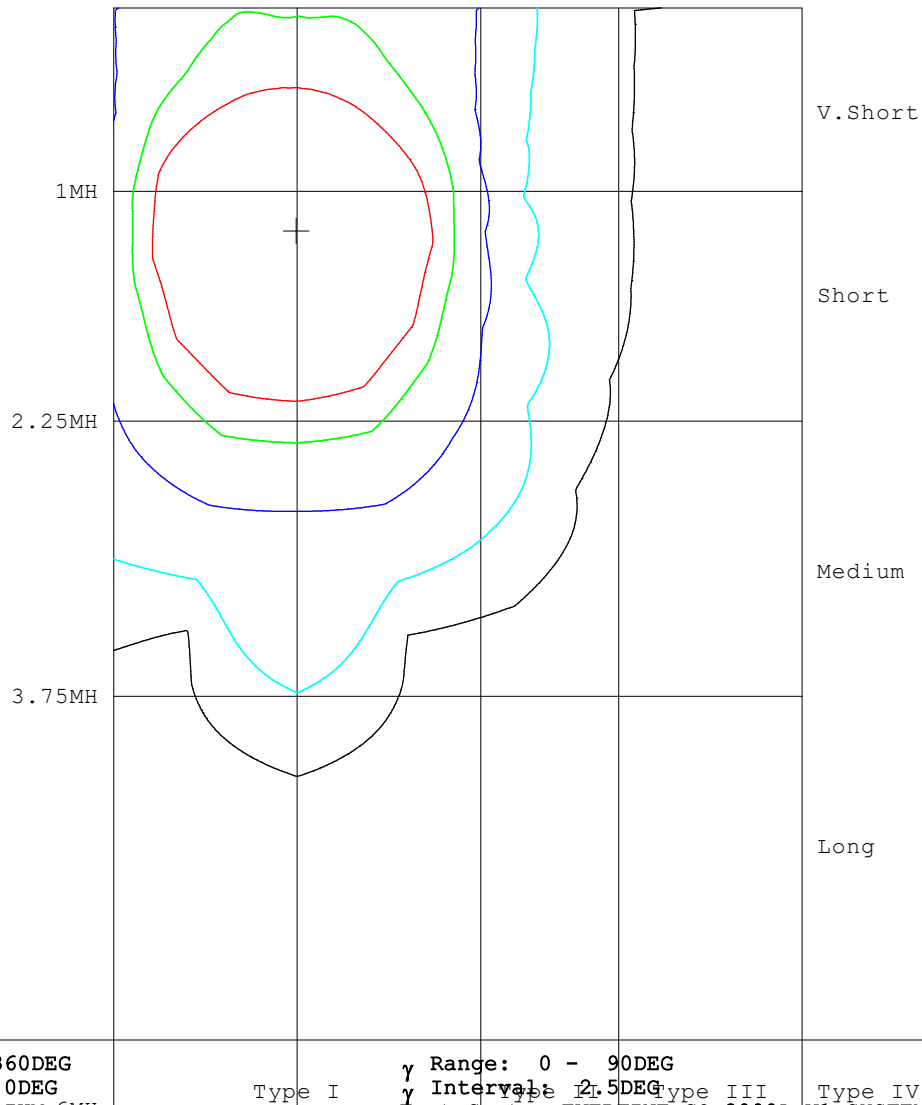
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:22 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

| | | |
|-----------------------------|---------------------|------------------|
| NAME: 98Prague150WW | TYPE: 98Prague150WW | WEIGHT: 1 |
| SPEC.: | DIM.: 610 x 252x 90 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM 6MH
Temperature: 25.3°C 1MH
Operators:
Test Date: 22 August 2022
Pavement 70% 6971.2
Road 20% 1991.8
Remarks:

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A-V1 SYSTEM V2.00.456
Humidity: 65.0% 75MH
Test Distance: 6.265m [K=1.0009]
2.9% 248.97
5% 497.95

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```