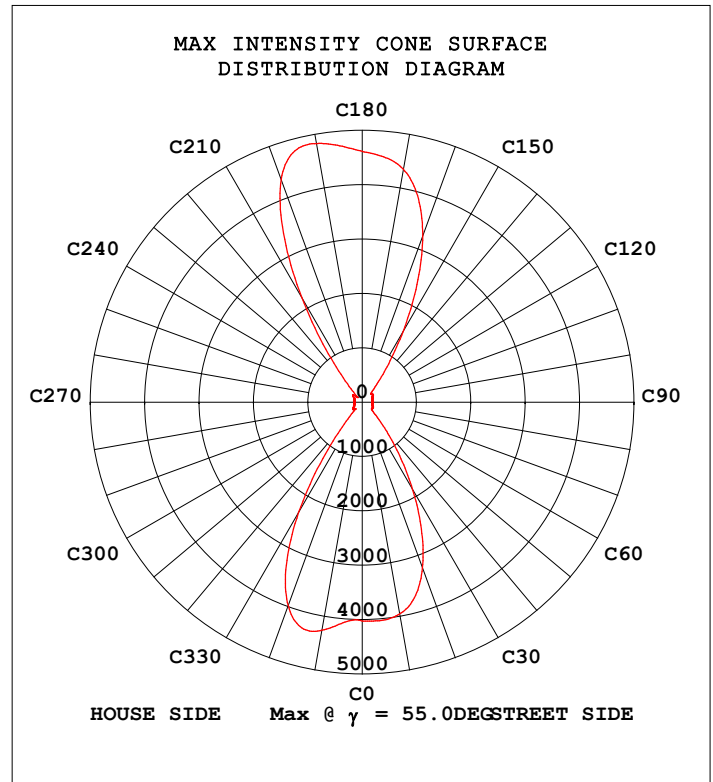
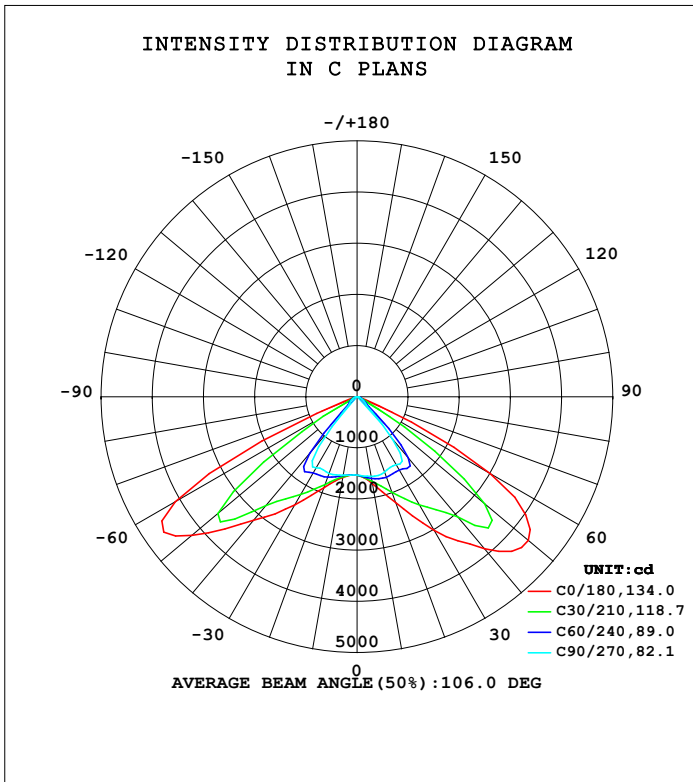


STREETLIGHT PHOTOMETRIC TEST REPORT

| | | |
|-----------------------------|----------------------|------------------|
| NAME: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|-------------------|---------------|--------------------------|----------|------------------------|---------|
| MODEL | 98Prague50SMD | Imax (cd) | 4832 | η street_up (%) | 0.0 |
| NOMINAL POWER (W) | 50 | LOR (%) | 104.7 | η street_down (%) | 50.7 |
| RATED VOLTAGE (V) | 230 | TOTAL FLUX (lm) | 6282 | η house_up (%) | 0.0 |
| NOMINAL FLUX (lm) | 6000 | MAXIMUM @ (C, γ) | 190,55.0 | η house_down (%) | 54.0 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | 76 FLASHAREA (m2) | 0.00100 |
| TEST VOLTAGE (V) | 230 | η down (%) | 104.7 | SLI | 16.108 |

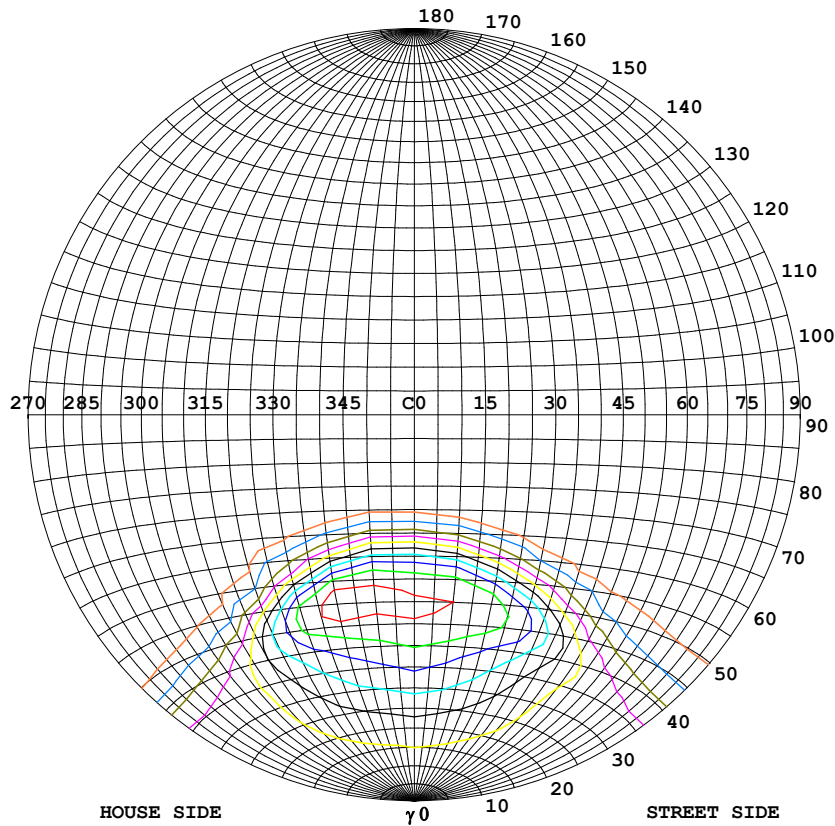


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 18 August 2022

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: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |



Classification:

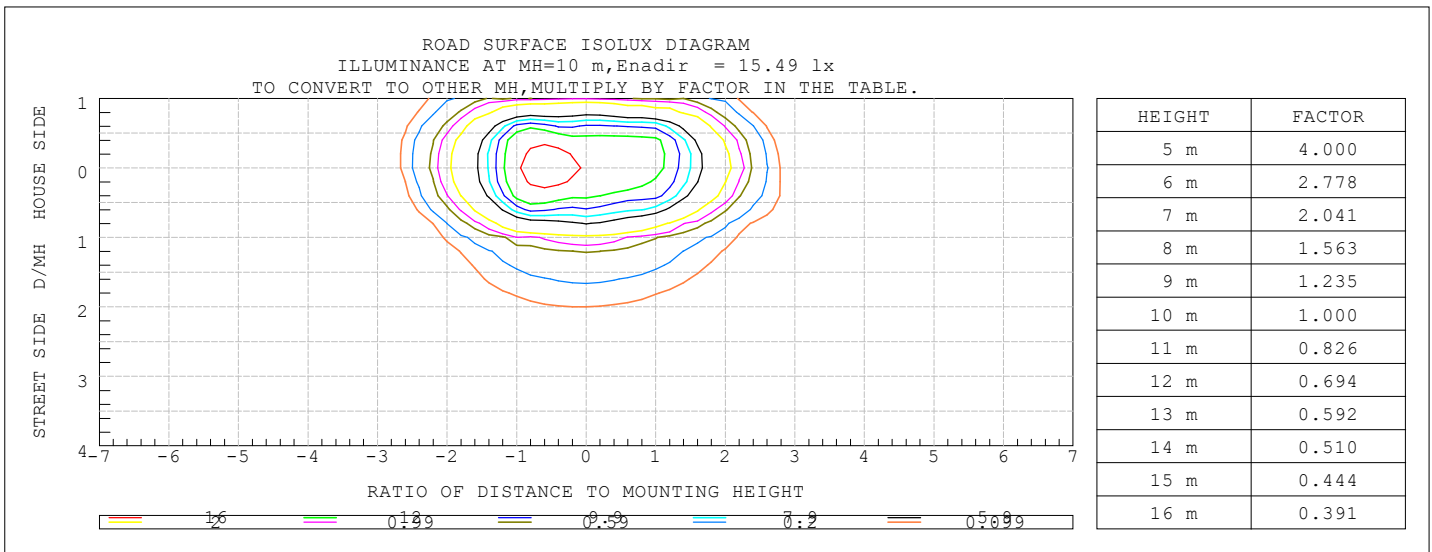
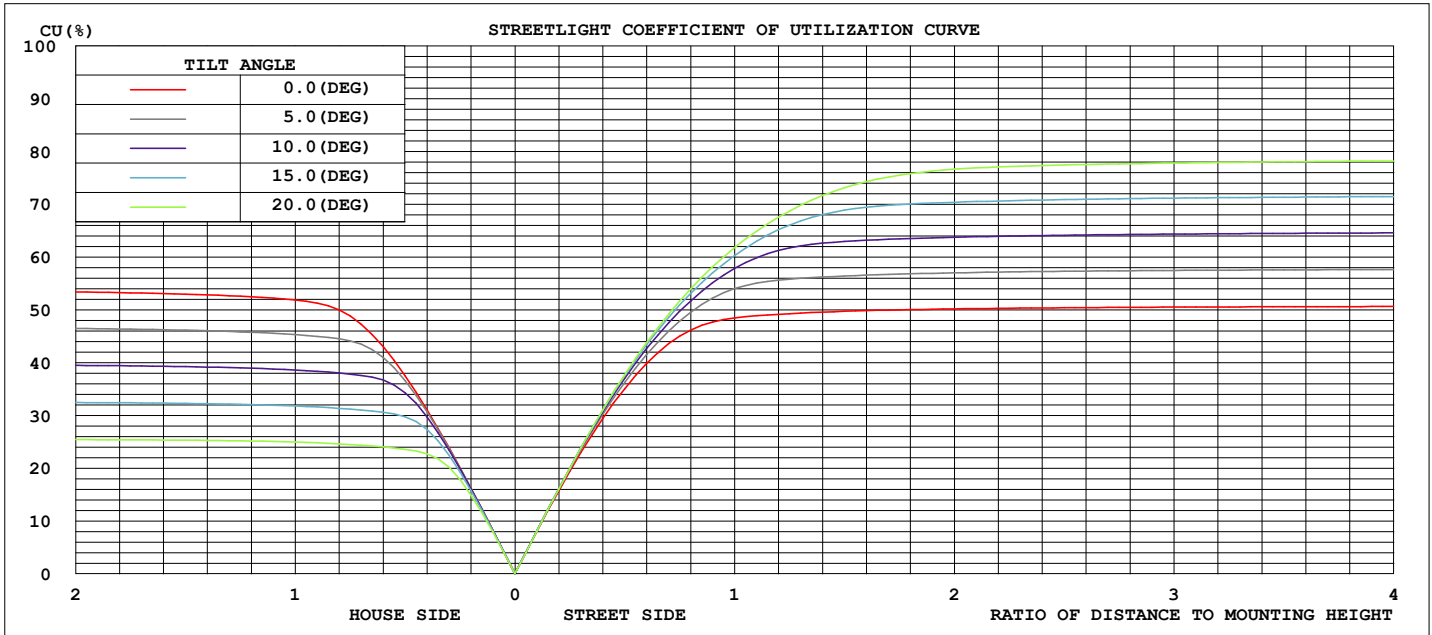
IES:Type I - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:8.202cd/klm
 Max.At90:0.9794cd/klm
 Max.80-90:8.202cd/klm

| ISOCANDELA DIAGRAM | |
|------------------------|------|
| UNIT | cd |
| I _{max} =100% | 4832 |
| 90% | 4349 |
| 80% | 3866 |
| 70% | 3382 |
| 60% | 2899 |
| 50% | 2416 |
| 40% | 1933 |
| 30% | 1450 |
| 20% | 966 |
| 10% | 483 |
| 5% | 242 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:18 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: HIGH
Temperature: 25.3°C
Operators:
Test Date: 18 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: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

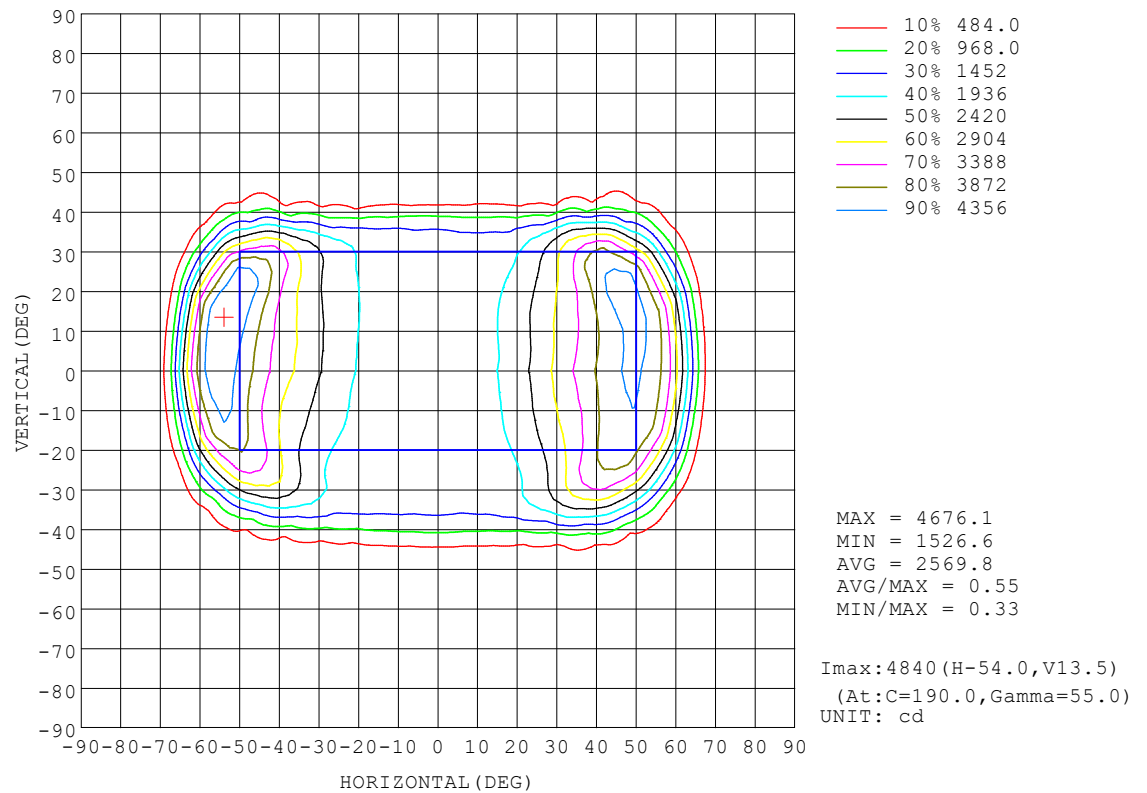
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|--------|-------|-------|-------|--------|-------|----------|-------------|--------------|-----------|
| 10 | 1723 | 1645 | 1583 | 1586 | 1602 | 1577 | 1559 | 1641 | 0- 10 | 150.5 | 150.5 | 2.4,2.51 |
| 20 | 2199 | 1819 | 1570 | 1677 | 1889 | 1743 | 1597 | 1889 | 10- 20 | 485.0 | 635.5 | 10.1,10.6 |
| 30 | 3012 | 1996 | 1536 | 1722 | 2444 | 1956 | 1603 | 2145 | 20- 30 | 888.6 | 1524 | 24.3,25.4 |
| 40 | 3880 | 2320 | 1087 | 1886 | 3154 | 2205 | 761.6 | 2433 | 30- 40 | 1356 | 2880 | 45.8,48 |
| 50 | 4372 | 1226 | 235.6 | 920.3 | 4213 | 863.8 | 185.8 | 1132 | 40- 50 | 1588 | 4468 | 71.1,74.5 |
| 60 | 3008 | 186.0 | 132.9 | 193.6 | 4100 | 177.7 | 117.7 | 198.8 | 50- 60 | 1311 | 5779 | 92,96.3 |
| 70 | 177.5 | 99.48 | 63.44 | 96.96 | 279.7 | 89.74 | 60.01 | 96.68 | 60- 70 | 421.0 | 6200 | 98.7,103 |
| 80 | 33.00 | 35.70 | 33.45 | 32.34 | 46.32 | 29.83 | 30.19 | 33.00 | 70- 80 | 67.67 | 6267 | 99.8,104 |
| 90 | 5.876 | 1.747 | 0.6123 | 1.540 | 3.638 | 1.049 | 0.6831 | 1.147 | 80- 90 | 14.97 | 6282 | 100,105 |
| 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: HIGH
Temperature:25.3°C
Operators:
Test Date:18 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

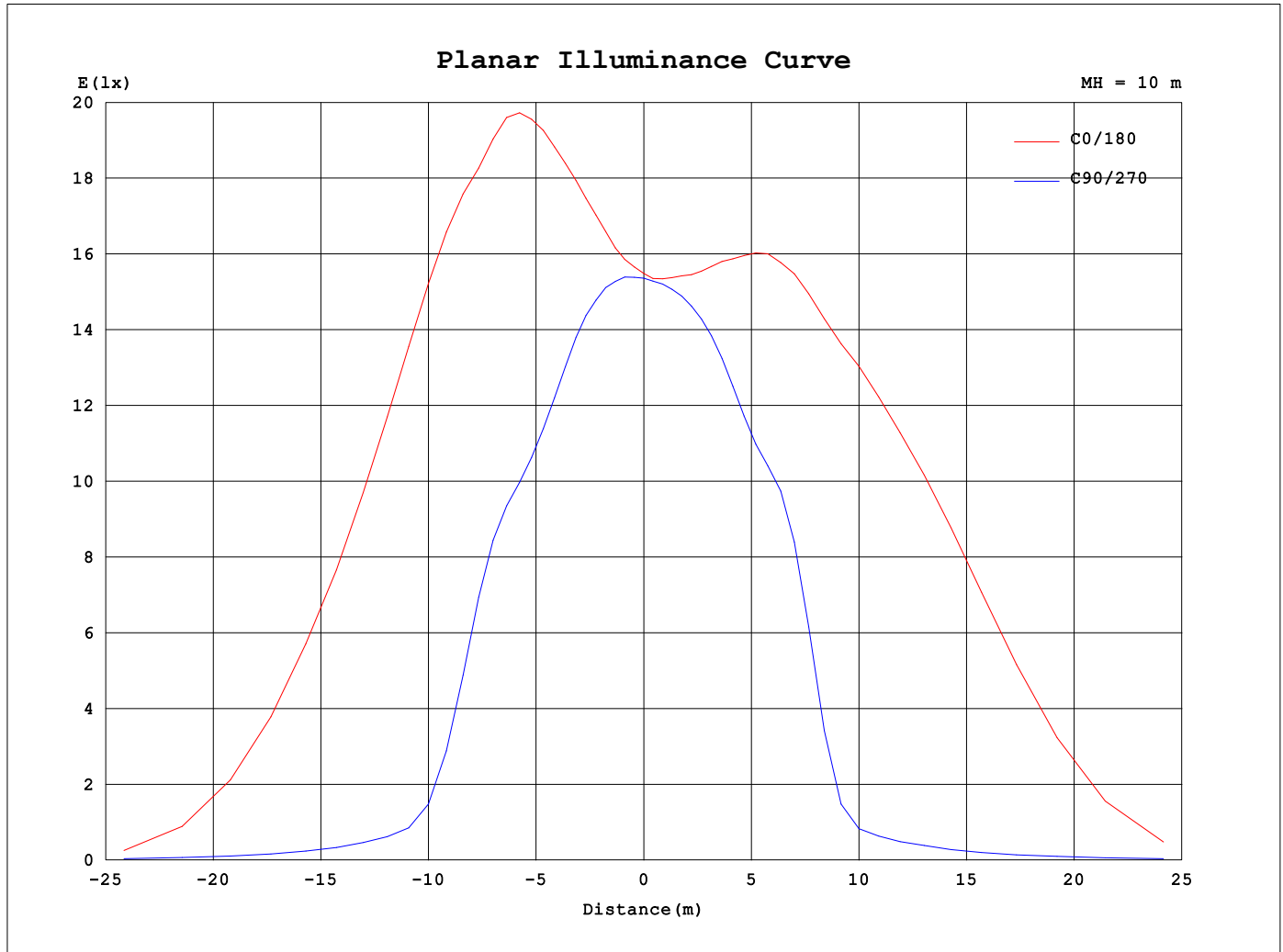
| | | |
|-----------------------------|----------------------|------------------|
| NAME: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:18 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

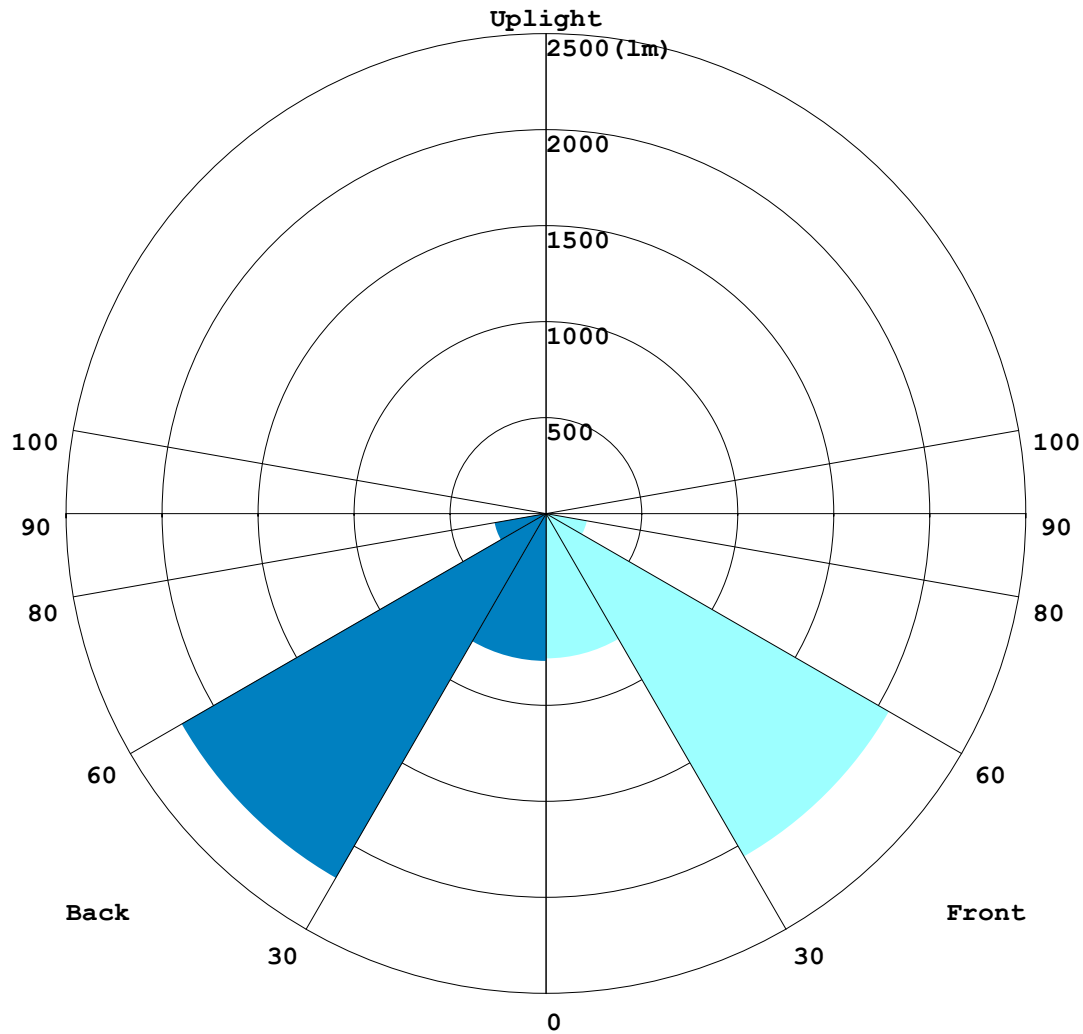


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 18 August 2022

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: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | 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: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 18 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: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | SERIAL No.: 0 |
| MFR.: Elmark Industries JSC | SUR.: Rectangular | Shielding Angle: |

IESNA Luminaire Flux Distribution Table:

| Zone | Lumens | Luminaire % |
|------------------------------|--------|-------------|
| FL - Front-Low(0-30) | 755.37 | 12.0 |
| FM - Front-Medium(30-60) | 2063.6 | 32.8 |
| FH - Front-High(60-80) | 217.35 | 3.5 |
| FVH - Front-Very High(80-90) | 8.1184 | 0.1 |
| Total Forward Light | 3044.4 | 48.5 |

| | | |
|-----------------------------|--------|------|
| BL - Back-Low(0-30) | 768.68 | 12.2 |
| BM - Back-Medium(30-60) | 2191.1 | 34.9 |
| BH - Back-High(60-80) | 271.34 | 4.3 |
| BVH - Back-Very High(80-90) | 6.8477 | 0.1 |
| Total Back Light | 3238 | 51.5 |

| | | |
|----------------------------|---|-----|
| 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 | 3238 | 0 | 3238 |
| Street Side | 3044.4 | 0 | 3044.4 |

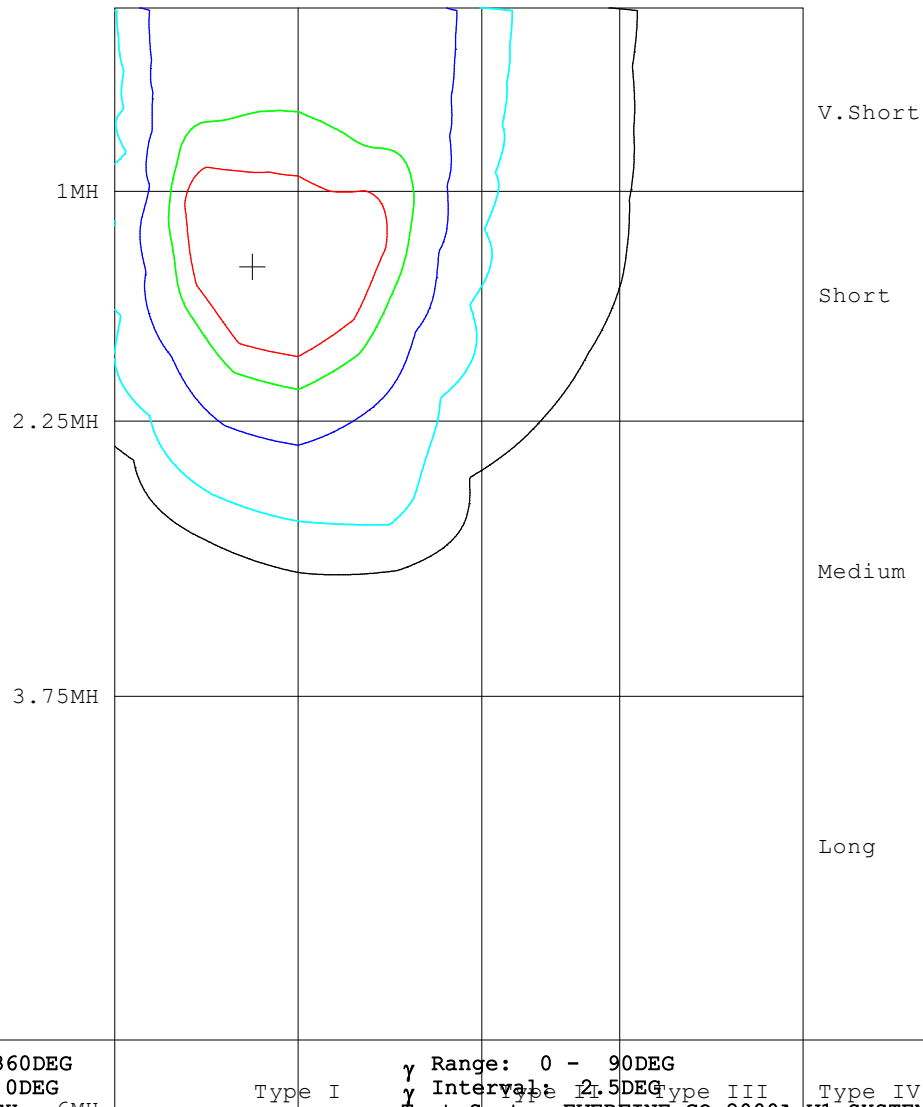
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:18 August 2022

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: 98Prague50SMD | TYPE: 98Prague50SMD | WEIGHT: 1 |
| SPEC.: | DIM.: 410 x 200 x 80 | 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: HIGH 6MH

Temperature: 25.3°C 1MH

Operators:

Test Date: 18 August 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

Test System: EVERFINE GO-2000A-V1 SYSTEM V2.00.456

Humidity: 65.0% 75MH 2.75MH

Test Distance: 6.265m [K=1.0000]

Remarks:

Type I

Type II

Type III

Type IV

70% 3398.9 Pavement

20% 971.11 Road

2.9% 121.39

50% 2427.8

5% 242.78

```

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:

```