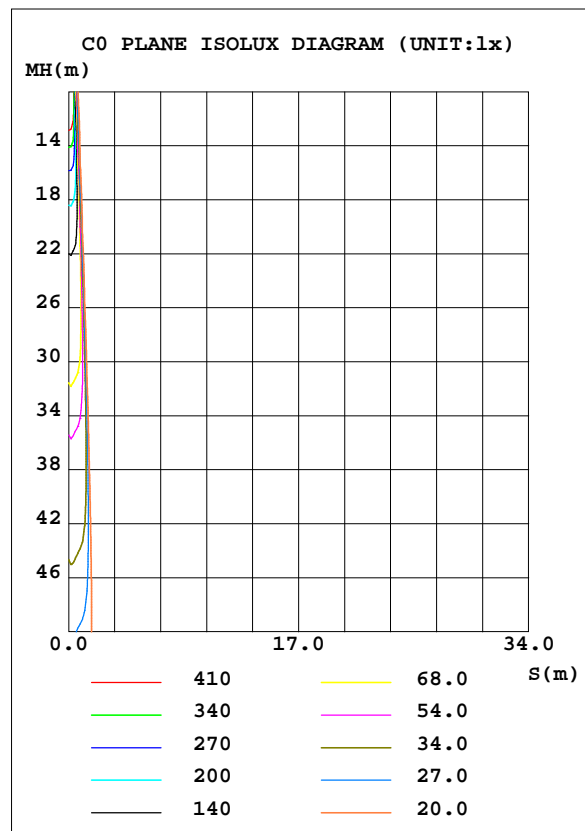
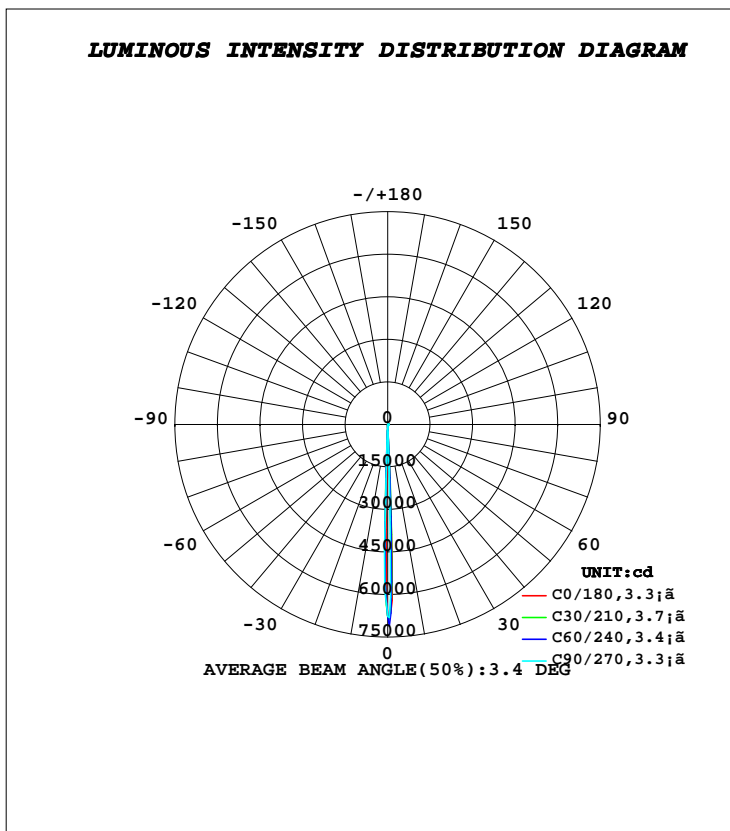


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|----------------|-------------------|
| Test:U:0V I:0A P:0W PF:0 Lamp Flux:327.94x1 lm | | |
| NAME: LS-CT65M | TYPE:Luminaire | WEIGHT: |
| DIM.: CCT=3065K;Ra=92;t=40C | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|------------------|--------|-----------------------|--------|--------------------|-----------|
| MODEL | | I _{max} (cd) | 71020 | S/MH(C0/180) | 0.06 |
| NOMINAL POWER(W) | 0 | LOR(%) | 100.0 | S/MH(C90/270) | 0.05 |
| RATED VOLTAGE(V) | 1 | TOTAL FLUX(lm) | 327.94 | η UP, DN(C0-180) | 0.0, 53.8 |
| NOMINAL FLUX(lm) | 327.94 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 0.0, 46.2 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | 1.1 | η down(%) | 100.0 | CIBSE SHR MAX | 1.00 |



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature: 25DEG
Operators: Skobnikov
Test Date: 2020-02-03

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 40%
Test Distance: 10.815m [K=1.0000]
Remarks: 4933_1

ZONAL FLUX DIAGRAM
ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|--|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 5 | 96.48 | 83.91 | 59.66 | 53.57 | 43.10 | 48.21 | 57.73 | 70.01 | 0- 5 | 266.9 | 266.9 | 81.4,81.4 |
| 10 | 24.29 | 22.69 | 20.70 | 23.13 | 19.91 | 19.22 | 19.46 | 20.50 | 5- 10 | 22.05 | 288.9 | 88.1,88.1 |
| 15 | 9.799 | 10.49 | 9.647 | 9.346 | 8.740 | 8.018 | 7.892 | 8.823 | 10- 15 | 15.82 | 304.7 | 92.9,92.9 |
| 20 | 4.806 | 5.374 | 5.021 | 4.502 | 4.158 | 3.605 | 3.357 | 4.105 | 15- 20 | 10.26 | 315.0 | 96.1,96.1 |
| 25 | 2.993 | 3.306 | 3.031 | 2.809 | 2.710 | 2.253 | 1.979 | 2.605 | 20- 25 | 7.105 | 322.1 | 98.2,98.2 |
| 30 | 2.083 | 2.099 | 1.983 | 1.850 | 1.839 | 1.541 | 1.343 | 1.747 | 25- 30 | 5.575 | 327.7 | 99.9,99.9 |
| 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30- 35 | 0.2502 | 327.9 | 100,100 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35- 40 | 0 | 327.9 | 100,100 |
| 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40- 45 | 0 | 327.9 | 100,100 |
| 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45- 50 | 0 | 327.9 | 100,100 |
| 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50- 55 | 0 | 327.9 | 100,100 |
| 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55- 60 | 0 | 327.9 | 100,100 |
| 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60- 65 | 0 | 327.9 | 100,100 |
| 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65- 70 | 0 | 327.9 | 100,100 |
| 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70- 75 | 0 | 327.9 | 100,100 |
| 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75- 80 | 0 | 327.9 | 100,100 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 85 | 0 | 327.9 | 100,100 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85- 90 | 0 | 327.9 | 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: $\mu\text{A}10\text{cd}$ | | | | | | | | | UNIT: lm | | |

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature: 25DEG
Operators: Skobnikov
Test Date: 2020-02-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 40%
Test Distance: 10.815m [K=1.0000]
Remarks: 4933_1

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------------|-------------------|
| Test:U:0V I:0A P:0W PF:0 Lamp Flux:327.94x1 lm | | |
| NAME: LS-CT65M | TYPE:Luminaire | WEIGHT: |
| DIM.: CCT=3065K;Ra=92;t=40C | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--1

UNIT: μ Á10cd

| C (DEG) \ g (DEG) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 6754 | 6784 | 6748 | 6778 | 6743 | 6772 | 6738 | 6766 | 6734 | 6759 | 6727 | 6754 | 6721 | 6750 | 6720 | 6745 | 6725 | 6741 | 6754 |
| 5 | 96.5 | 78.4 | 97.6 | 78.1 | 95.0 | 73.0 | 85.1 | 66.1 | 76.2 | 59.7 | 67.7 | 54.5 | 63.8 | 49.8 | 57.4 | 46.7 | 54.4 | 50.1 | 43.1 |
| 10 | 24.3 | 22.9 | 24.4 | 22.8 | 23.8 | 21.6 | 22.5 | 21.1 | 22.2 | 20.7 | 22.0 | 21.4 | 23.6 | 23.0 | 23.3 | 21.5 | 22.3 | 20.7 | 19.9 |
| 15 | 9.80 | 9.47 | 9.98 | 9.94 | 11.0 | 9.95 | 10.0 | 9.69 | 10.1 | 9.65 | 10.0 | 10.0 | 10.0 | 9.29 | 9.40 | 9.12 | 9.51 | 8.92 | 8.74 |
| 20 | 4.81 | 4.66 | 4.86 | 5.01 | 5.53 | 5.22 | 5.31 | 5.05 | 5.07 | 5.02 | 5.37 | 4.88 | 4.71 | 4.50 | 4.50 | 4.25 | 4.34 | 4.20 | 4.16 |
| 25 | 2.99 | 2.94 | 3.27 | 3.10 | 3.19 | 3.42 | 3.38 | 3.17 | 3.10 | 3.03 | 3.34 | 2.95 | 2.87 | 2.79 | 2.83 | 2.73 | 2.76 | 2.71 | 2.71 |
| 30 | 2.08 | 2.11 | 2.21 | 1.91 | 1.93 | 2.27 | 2.38 | 2.07 | 1.86 | 1.98 | 2.13 | 1.90 | 1.84 | 1.84 | 1.86 | 1.79 | 1.82 | 1.91 | 1.84 |
| 35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: LOW
 Temperature: 25DEG
 Operators: Skobnikov
 Test Date: 2020-02-03

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 40%
 Test Distance: 10.815m [K=1.0000]
 Remarks: 4933_1

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------------|-------------------|
| Test:U:0V I:0A P:0W PF:0 Lamp Flux:327.94x1 lm | | |
| NAME: LS-CT65M | TYPE:Luminaire | WEIGHT: |
| DIM.: CCT=3065K;Ra=92;t=40C | SPEC.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: $\mu\text{A}10\text{cd}$

| C (DEG) \ γ (DEG) | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| 0 | 6784 | 6748 | 6778 | 6743 | 6772 | 6738 | 6766 | 6734 | 6759 | 6727 | 6754 | 6721 | 6750 | 6720 | 6745 | 6725 | 6741 | | |
| 5 | 45.6 | 44.2 | 47.6 | 46.3 | 50.1 | 48.4 | 53.1 | 47.0 | 57.7 | 51.5 | 65.9 | 59.2 | 75.8 | 64.1 | 78.2 | 64.4 | 77.7 | | |
| 10 | 20.3 | 19.4 | 19.5 | 18.9 | 19.6 | 18.7 | 19.3 | 18.5 | 19.5 | 19.3 | 20.3 | 19.8 | 20.7 | 20.3 | 21.3 | 20.7 | 21.8 | | |
| 15 | 8.63 | 8.47 | 8.39 | 8.05 | 7.99 | 7.75 | 7.69 | 7.49 | 7.89 | 8.00 | 8.34 | 8.44 | 8.77 | 8.87 | 9.13 | 9.25 | 9.46 | | |
| 20 | 4.05 | 3.90 | 3.87 | 3.67 | 3.54 | 3.44 | 3.33 | 3.10 | 3.36 | 3.50 | 3.70 | 3.89 | 4.07 | 4.14 | 4.33 | 4.51 | 4.66 | | |
| 25 | 2.55 | 2.40 | 2.24 | 2.27 | 2.23 | 2.18 | 2.02 | 1.80 | 1.98 | 2.13 | 2.33 | 2.54 | 2.58 | 2.63 | 2.80 | 2.95 | 2.96 | | |
| 30 | 1.73 | 1.65 | 1.54 | 1.48 | 1.60 | 1.36 | 1.28 | 1.23 | 1.34 | 1.50 | 1.59 | 1.75 | 1.72 | 1.77 | 1.90 | 2.03 | 2.01 | | |
| 35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: LOW
 Temperature: 25DEG
 Operators: Skobnikov
 Test Date: 2020-02-03

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 40%
 Test Distance: 10.815m [K=1.0000]
 Remarks: 4933_1