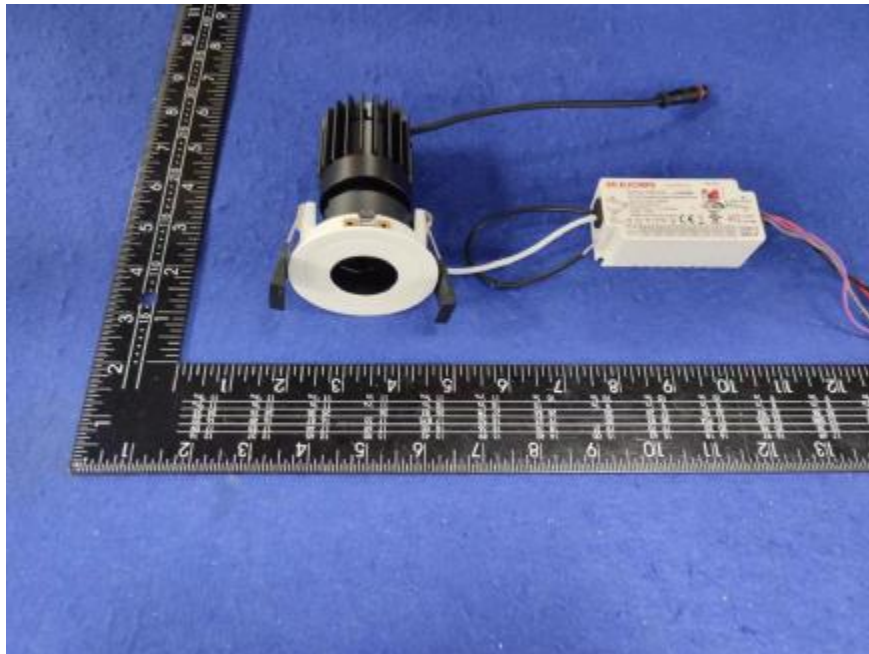


## Luminaire Photograph



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 46.1%   |                          |
| Luminaire Power:    | 12.19 W |                          |
| SHR Nominal:        | 0.00    | Calculated using the TM5 |
| SHR Maximum:        | 0.30    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90  
LENS: PM-1084A 24R  
DRIVER: PUP10A-1WMC-350 260mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

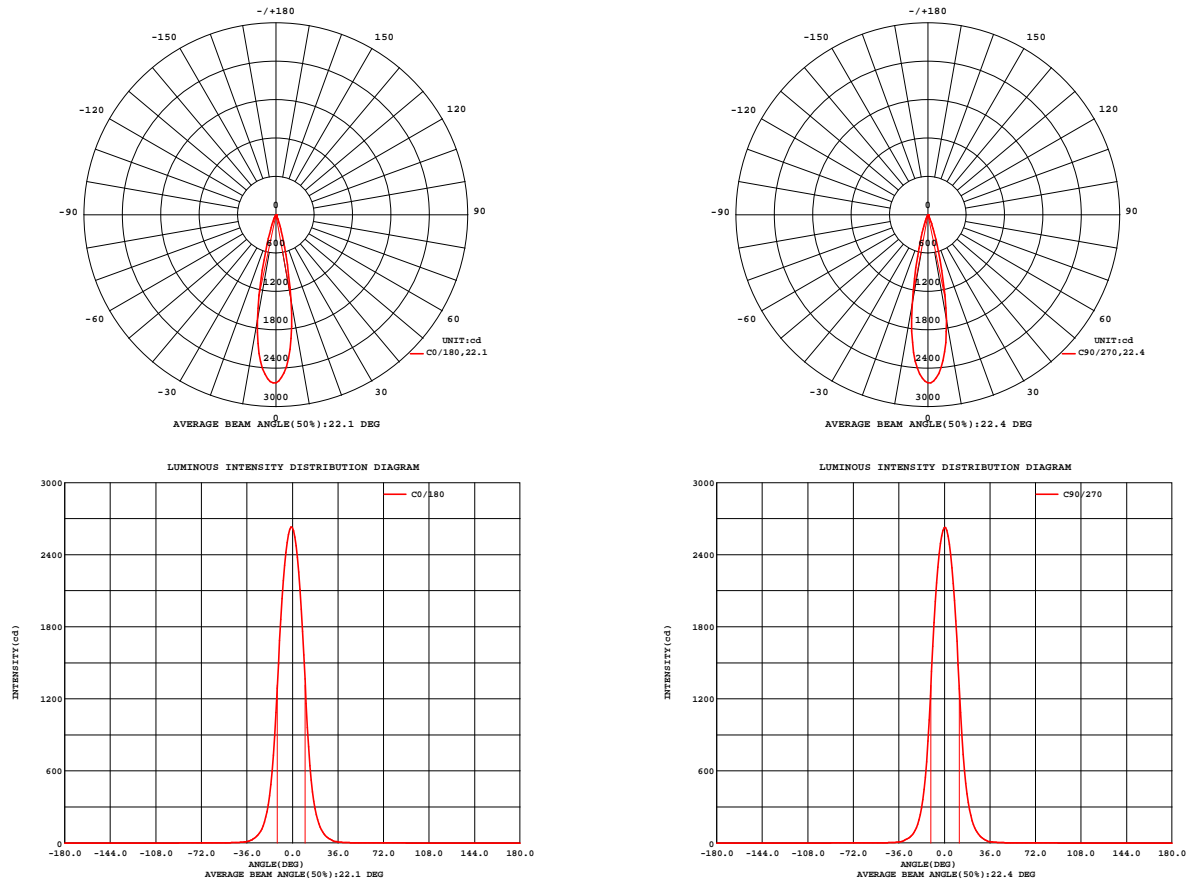


Fig. C0/C180

Fig. C90/C270

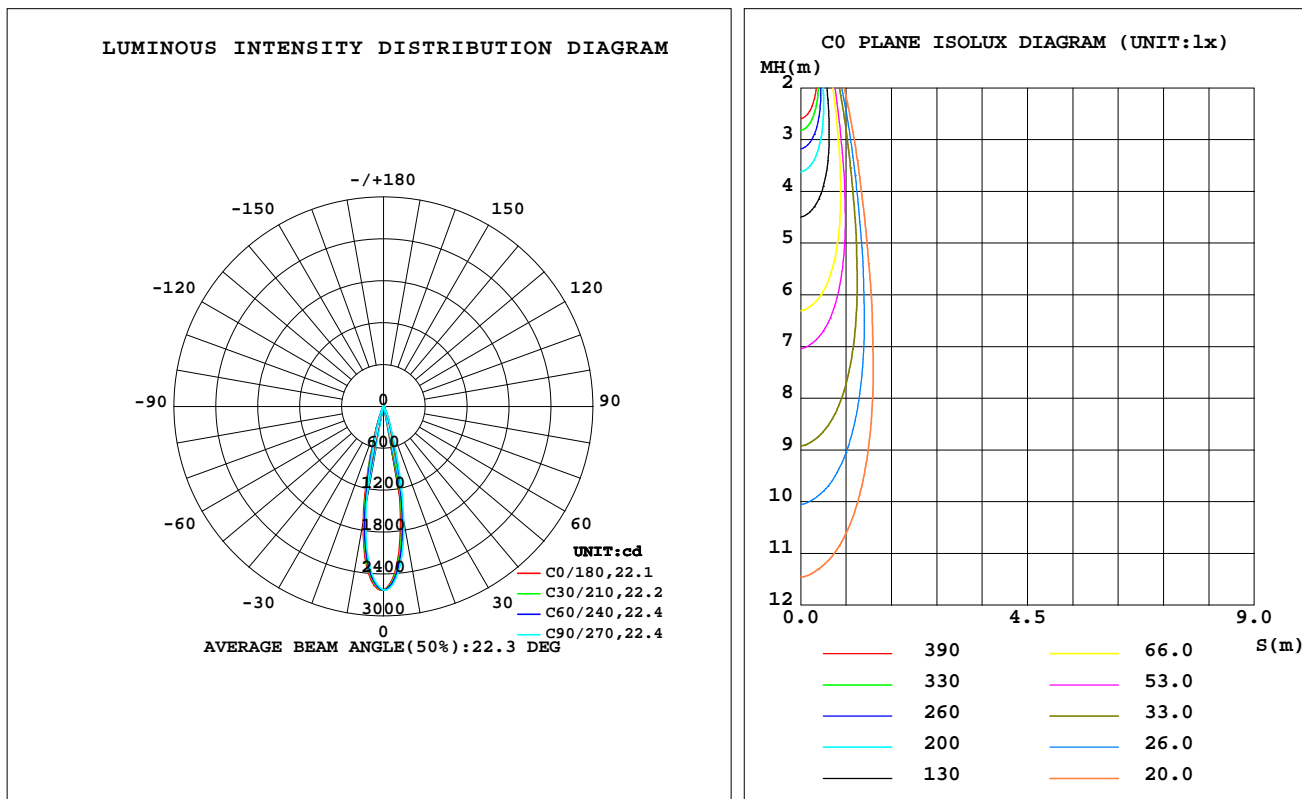
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra: 90  
LENS: PM-1084A 24R  
DRIVER: PUP10A-1WMC-350 260mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 36.31 lm/W |        |                 |          |
|------------------|---------|----------------------------------|--------|-----------------|----------|
| MODEL            | CREE    | I <sub>max</sub> (cd)            | 2635   | S/MH(C0/180)    | 0.38     |
| NOMINAL POWER(W) | 12      | LOR(%)                           | 46.1   | S/MH(C90/270)   | 0.35     |
| RATED VOLTAGE(V) | 120     | TOTAL FLUX(lm)                   | 442.63 | UP,DN(C0-180)   | 0.0,24.1 |
| NOMINAL FLUX(lm) | 959.178 | CIE CLASS                        | DIRECT | UP,DN(C180-360) | 0.0,22.1 |
| LAMPS INSIDE     | 1       | up(%)                            | 0.0    | CIBSE SHR NOM   | 0.00     |
| TEST VOLTAGE(V)  | 120     | down(%)                          | 46.1   | CIBSE SHR MAX   | 0.30     |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

|     | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   |         | zone    | total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------|-----------|
| 10  | 1364                  | 1522   | 1679   | 1728   | 1685   | 1575   | 1430   | 1340   | 0- 10   | 197.7   | 197.7 | 44.7,20.6 |
| 20  | 194.6                 | 239.1  | 276.6  | 284.7  | 260.1  | 226.6  | 192.3  | 179.5  | 10- 20  | 187.2   | 384.9 | 86.9,40.1 |
| 30  | 30.09                 | 36.69  | 41.30  | 41.77  | 38.93  | 33.33  | 29.62  | 28.27  | 20- 30  | 44.92   | 429.8 | 97.1,44.8 |
| 40  | 5.314                 | 5.937  | 6.351  | 6.782  | 6.557  | 5.303  | 4.482  | 4.581  | 30- 40  | 9.053   | 438.8 | 99.1,45.8 |
| 50  | 1.439                 | 1.698  | 1.964  | 2.312  | 2.165  | 1.392  | 1.013  | 1.090  | 40- 50  | 2.495   | 441.3 | 99.7,46   |
| 60  | 0.4918                | 0.5225 | 0.6124 | 0.7177 | 0.7343 | 0.5345 | 0.4313 | 0.4596 | 50- 60  | 0.8531  | 442.2 | 99.9,46.1 |
| 70  | 0.1333                | 0.1361 | 0.1637 | 0.1989 | 0.2068 | 0.1665 | 0.1457 | 0.1350 | 60- 70  | 0.3213  | 442.5 | 100,46.1  |
| 80  | 0.0525                | 0.0473 | 0.0536 | 0.0598 | 0.0694 | 0.0529 | 0.0485 | 0.0441 | 70- 80  | 0.1006  | 442.6 | 100,46.1  |
| 90  | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90  | 0.0273  | 442.6 | 100,46.1  |
| 100 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100  | 0       | 442.6 | 100,46.1  |
| 110 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110 | 0       | 442.6 | 100,46.1  |
| 120 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120 | 0       | 442.6 | 100,46.1  |
| 130 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130 | 0       | 442.6 | 100,46.1  |
| 140 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 130-140 | 0       | 442.6 | 100,46.1  |
| 150 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 140-150 | 0       | 442.6 | 100,46.1  |
| 160 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 150-160 | 0       | 442.6 | 100,46.1  |
| 170 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 160-170 | 0       | 442.6 | 100,46.1  |
| 180 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 170-180 | 0       | 442.6 | 100,46.1  |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT:lm |       |           |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:zoe  
 Test Date:2023-12-9

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:3.160m [K=1.0000]  
 Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
 LENS:PM-1084A 24R  
 DRIVER:PUP10A-1WMC-350 260mA  
 30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz  
Lamp Flux:959.178x1 lm

NAME: 2318.121-LEA-13

TYPE:

WEIGHT:

SPEC.: 3000K

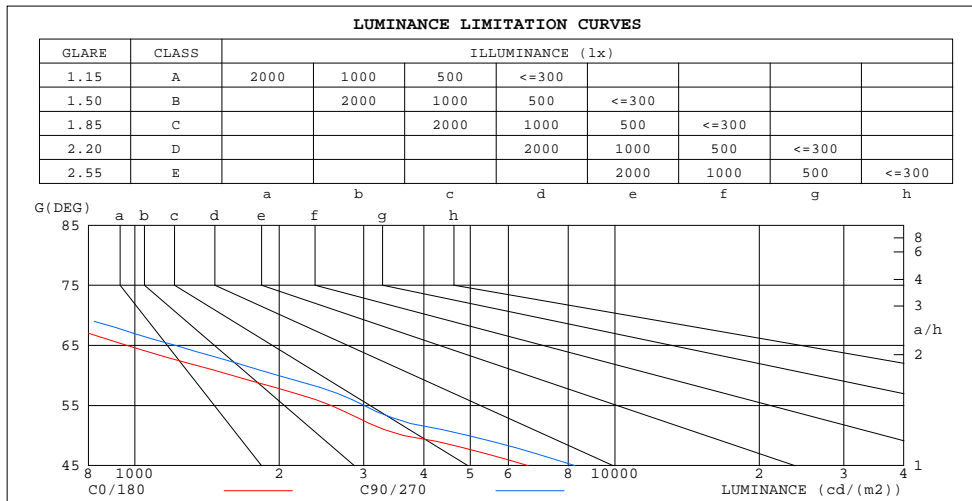
DIM.:

SERIAL No.: 2312091437

MFR.: RISE

SUR.: 0.00061544m2

Shielding Angle:



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(180)            | C0/180 | C90/270 |
| 85                | 469    | 496     |
| 80                | 491    | 502     |
| 75                | 516    | 552     |
| 70                | 634    | 777     |
| 65                | 963    | 1216    |
| 60                | 1599   | 1989    |
| 55                | 2566   | 3006    |
| 50                | 3637   | 4961    |
| 45                | 6611   | 8269    |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz  
Lamp Flux:959.178x1 lm

NAME: 2318.121-LEA-13

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

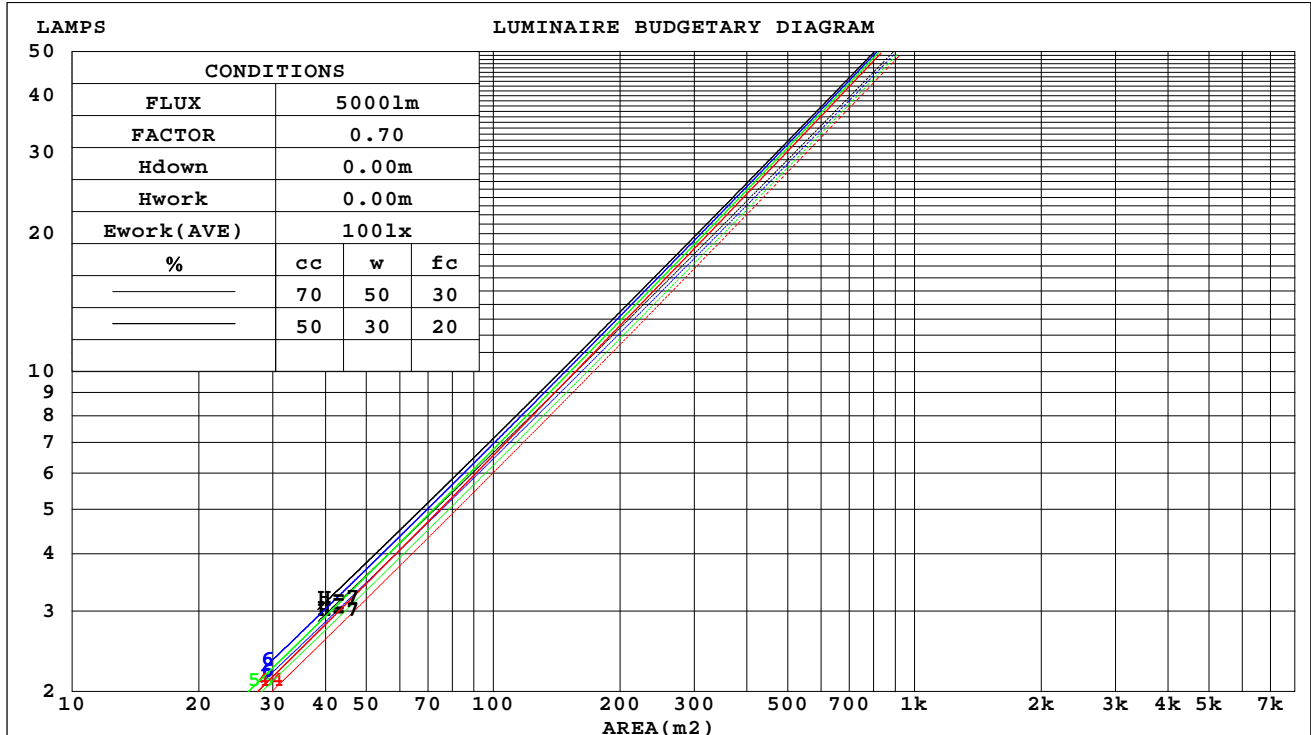
SERIAL No.: 2312091437

MFR.: RISE

SUR.: 0.00061544m2

Shielding Angle:

| cc  | 80%                   |     |     | 70% |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0 |
|-----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| w   | 50%                   | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| fc  | 20%                   |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 0 |
| RCR | RCR:Room Cavity Ratio |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

### WEC AND CCEC

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |

| cc   | 80%   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| w    | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| fc   | 20%   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  |   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 1.0  | .059  | .034 | .011 | .056 | .032 | .010 | .050 | .029 | .009 | .045 | .026 | .008 | .040 | .023 | .008 |   |
| 2.0  | .054  | .030 | .009 | .052 | .029 | .009 | .047 | .026 | .008 | .043 | .024 | .008 | .039 | .022 | .007 |   |
| 3.0  | .050  | .027 | .008 | .048 | .026 | .008 | .044 | .024 | .007 | .041 | .022 | .007 | .037 | .021 | .006 |   |
| 4.0  | .047  | .024 | .007 | .045 | .024 | .007 | .042 | .022 | .007 | .039 | .021 | .006 | .036 | .020 | .006 |   |
| 5.0  | .044  | .022 | .006 | .042 | .022 | .006 | .040 | .021 | .006 | .037 | .020 | .006 | .035 | .019 | .006 |   |
| 6.0  | .041  | .021 | .006 | .040 | .020 | .006 | .038 | .019 | .006 | .036 | .018 | .005 | .034 | .018 | .005 |   |
| 7.0  | .039  | .019 | .005 | .038 | .019 | .005 | .036 | .018 | .005 | .034 | .018 | .005 | .032 | .017 | .005 |   |
| 8.0  | .037  | .018 | .005 | .036 | .018 | .005 | .035 | .017 | .005 | .033 | .017 | .005 | .031 | .016 | .005 |   |
| 9.0  | .035  | .017 | .005 | .035 | .017 | .005 | .033 | .016 | .005 | .032 | .016 | .005 | .030 | .015 | .004 |   |
| 10.0 | .034  | .016 | .005 | .033 | .016 | .004 | .032 | .016 | .004 | .031 | .015 | .004 | .029 | .015 | .004 |   |

| cc   | 80%  |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| w    | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| fc   | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
| 0.0  | .088   | .088 | .088 | .075 | .075 | .075 | .051 | .051 | .051 | .029 | .029 | .029 | .009 | .009 | .009 |   |
| 1.0  | .077   | .073 | .069 | .066 | .062 | .059 | .045 | .043 | .041 | .026 | .025 | .024 | .008 | .008 | .008 |   |
| 2.0  | .069   | .061 | .055 | .059 | .053 | .048 | .040 | .036 | .033 | .023 | .021 | .019 | .007 | .007 | .006 |   |
| 3.0  | .062   | .052 | .045 | .053 | .045 | .039 | .036 | .031 | .027 | .021 | .018 | .016 | .007 | .006 | .005 |   |
| 4.0  | .056   | .045 | .037 | .048 | .039 | .032 | .033 | .027 | .023 | .019 | .016 | .013 | .006 | .005 | .004 |   |
| 5.0  | .051   | .039 | .031 | .043 | .034 | .027 | .030 | .024 | .019 | .017 | .014 | .011 | .006 | .005 | .004 |   |
| 6.0  | .046   | .035 | .026 | .040 | .030 | .023 | .027 | .021 | .016 | .016 | .012 | .010 | .005 | .004 | .003 |   |
| 7.0  | .043   | .031 | .022 | .037 | .027 | .020 | .025 | .019 | .014 | .015 | .011 | .008 | .005 | .004 | .003 |   |
| 8.0  | .040   | .028 | .019 | .034 | .024 | .017 | .024 | .017 | .012 | .014 | .010 | .007 | .004 | .003 | .002 |   |
| 9.0  | .037   | .025 | .017 | .032 | .022 | .015 | .022 | .015 | .010 | .013 | .009 | .006 | .004 | .003 | .002 |   |
| 10.0 | .035   | .023 | .015 | .030 | .020 | .013 | .021 | .014 | .009 | .012 | .008 | .005 | .004 | .003 | .002 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

|   |                  |     |     |     |                    |                |     |                        |     |     |
|---|------------------|-----|-----|-----|--------------------|----------------|-----|------------------------|-----|-----|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                  |     |     |     |                    |                |     |                        |     |     |
| NAME: 2318.121-LEA-13   |                  |     |     |     | TYPE:              |                |     | WEIGHT:                |     |     |
| SPEC.: 3000K  |                  |     |     |     | DIM.:              |                |     | SERIAL No.: 2312091437 |     |     |
| MFR.: RISE  |                  |     |     |     | SUR.: 0.00061544m2 |                |     | Shielding Angle:       |     |     |
| ceiling/cavity  | 0.7              | 0.7 | 0.5 | 0.5 | 0.3                | 0.7            | 0.7 | 0.5                    | 0.5 | 0.3 |
| walls   | 0.5              | 0.3 | 0.5 | 0.3 | 0.3                | 0.5            | 0.3 | 0.5                    | 0.3 | 0.3 |
| working plane   | 0.2              | 0.2 | 0.2 | 0.2 | 0.2                | 0.2            | 0.2 | 0.2                    | 0.2 | 0.2 |
| Room dimensions   | Viewed crosswise |     |     |     |                    | Viewed endwise |     |                        |     |     |
| x = 2H y = 2H   | 7.1              | 7.7 | 7.3 | 7.9 | 8.0                | 8.4            | 9.0 | 8.6                    | 9.1 | 9.2 |
| 3H  | 7.0              | 7.6 | 7.2 | 7.7 | 7.9                | 8.3            | 8.8 | 8.5                    | 9.0 | 9.2 |
| 4H  | 7.0              | 7.5 | 7.2 | 7.7 | 7.9                | 8.2            | 8.7 | 8.4                    | 8.9 | 9.1 |
| 6H  | 6.9              | 7.4 | 7.2 | 7.6 | 7.8                | 8.1            | 8.6 | 8.4                    | 8.8 | 9.1 |
| 8H  | 6.8              | 7.3 | 7.1 | 7.6 | 7.8                | 8.1            | 8.6 | 8.4                    | 8.8 | 9.1 |
| 12H   | 6.8              | 7.3 | 7.1 | 7.5 | 7.8                | 8.0            | 8.5 | 8.3                    | 8.8 | 9.0 |
| 4H 2H   | 7.0              | 7.5 | 7.2 | 7.7 | 7.9                | 8.2            | 8.7 | 8.4                    | 8.9 | 9.1 |
| 3H  | 6.8              | 7.3 | 7.1 | 7.6 | 7.8                | 8.1            | 8.5 | 8.4                    | 8.8 | 9.0 |
| 4H  | 6.8              | 7.2 | 7.1 | 7.5 | 7.8                | 8.0            | 8.4 | 8.3                    | 8.7 | 9.0 |
| 6H  | 6.7              | 7.1 | 7.0 | 7.4 | 7.7                | 7.9            | 8.3 | 8.3                    | 8.6 | 8.9 |
| 8H  | 6.6              | 7.0 | 7.0 | 7.3 | 7.7                | 7.8            | 8.2 | 8.2                    | 8.5 | 8.9 |
| 12H   | 6.6              | 6.9 | 7.0 | 7.3 | 7.7                | 7.8            | 8.1 | 8.2                    | 8.5 | 8.9 |
| 8H 4H   | 6.6              | 7.0 | 7.0 | 7.3 | 7.7                | 7.8            | 8.2 | 8.2                    | 8.5 | 8.9 |
| 6H  | 6.5              | 6.8 | 6.9 | 7.2 | 7.6                | 7.7            | 8.0 | 8.2                    | 8.4 | 8.8 |
| 8H  | 6.5              | 6.7 | 6.9 | 7.2 | 7.6                | 7.7            | 7.9 | 8.1                    | 8.4 | 8.8 |
| 12H   | 6.4              | 6.6 | 6.9 | 7.1 | 7.6                | 7.6            | 7.9 | 8.1                    | 8.3 | 8.8 |
| 12H 4H  | 6.6              | 6.9 | 7.0 | 7.3 | 7.6                | 7.8            | 8.1 | 8.2                    | 8.5 | 8.9 |
| 6H  | 6.5              | 6.7 | 6.9 | 7.1 | 7.6                | 7.7            | 7.9 | 8.1                    | 8.4 | 8.8 |
| 8H  | 6.4              | 6.6 | 6.9 | 7.1 | 7.6                | 7.6            | 7.9 | 8.1                    | 8.3 | 8.8 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |     |     |     |                    |                |     |                        |     |     |
| S = 1.0H  | + 2.5 / - 5.8    |     |     |     |                    | + 2.8 / - 5.6  |     |                        |     |     |
| 1.5H  | + 4.0 / - 4.1    |     |     |     |                    | + 4.4 / - 4.6  |     |                        |     |     |
| 2.0H  | + 4.3 / - 4.7    |     |     |     |                    | + 4.9 / - 5.0  |     |                        |     |     |

CIE Pub.117, 959.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)  
Area: 0.00061544 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up



### UTILIZATION FACTORS TABLE

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |

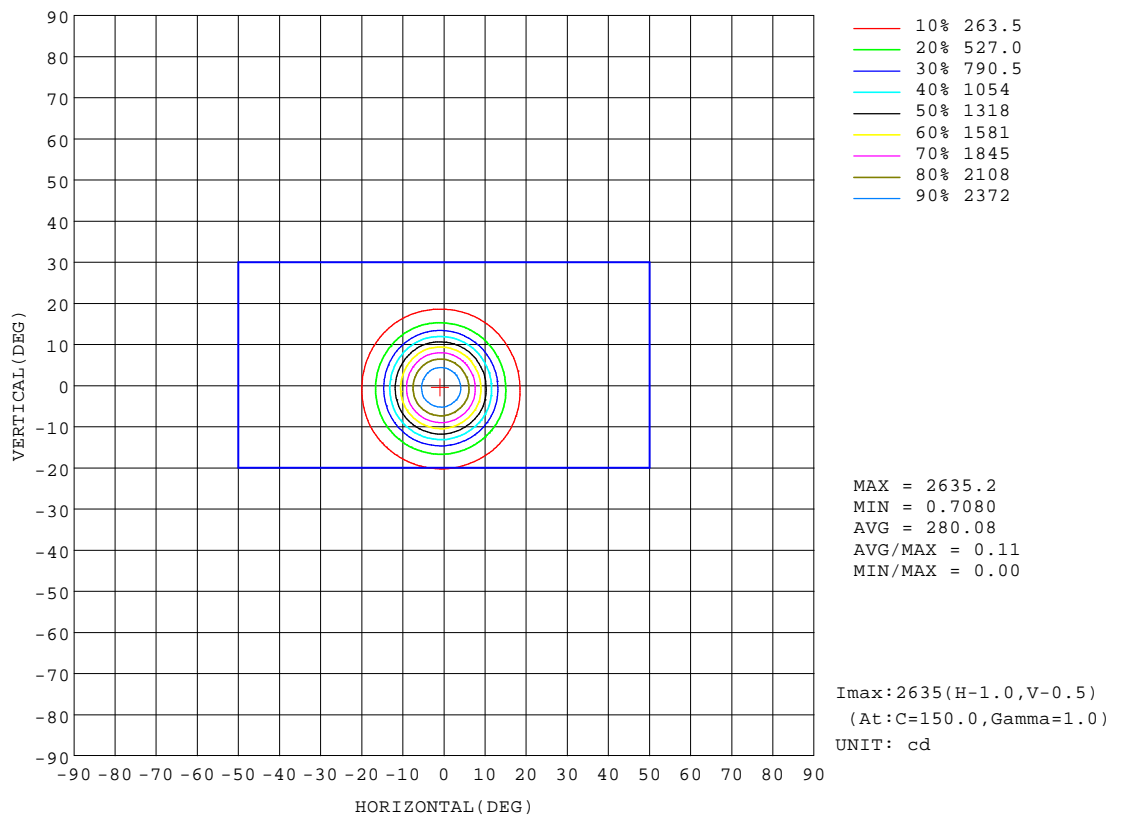
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7   | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2   | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| k = 0.60                         | 42  | 39  | 38        | 42  | 39  | 38  | 41  | 39            | 38  | 36     |
| 0.80                             | 45  | 43  | 41        | 45  | 43  | 41  | 44  | 42            | 41  | 40     |
| 1.00                             | 47  | 45  | 43        | 47  | 44  | 43  | 46  | 44            | 43  | 41     |
| 1.25                             | 49  | 46  | 45        | 48  | 46  | 45  | 47  | 46            | 44  | 43     |
| 1.50                             | 50  | 48  | 46        | 49  | 47  | 46  | 48  | 47            | 46  | 44     |
| 2.00                             | 51  | 49  | 48        | 50  | 48  | 47  | 49  | 48            | 47  | 44     |
| 2.50                             | 51  | 50  | 49        | 51  | 49  | 48  | 49  | 48            | 47  | 45     |
| 3.00                             | 52  | 51  | 49        | 51  | 50  | 49  | 50  | 49            | 48  | 45     |
| 4.00                             | 53  | 52  | 51        | 52  | 51  | 50  | 50  | 50            | 49  | 46     |
| 5.00                             | 53  | 52  | 52        | 52  | 52  | 51  | 51  | 50            | 50  | 46     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |

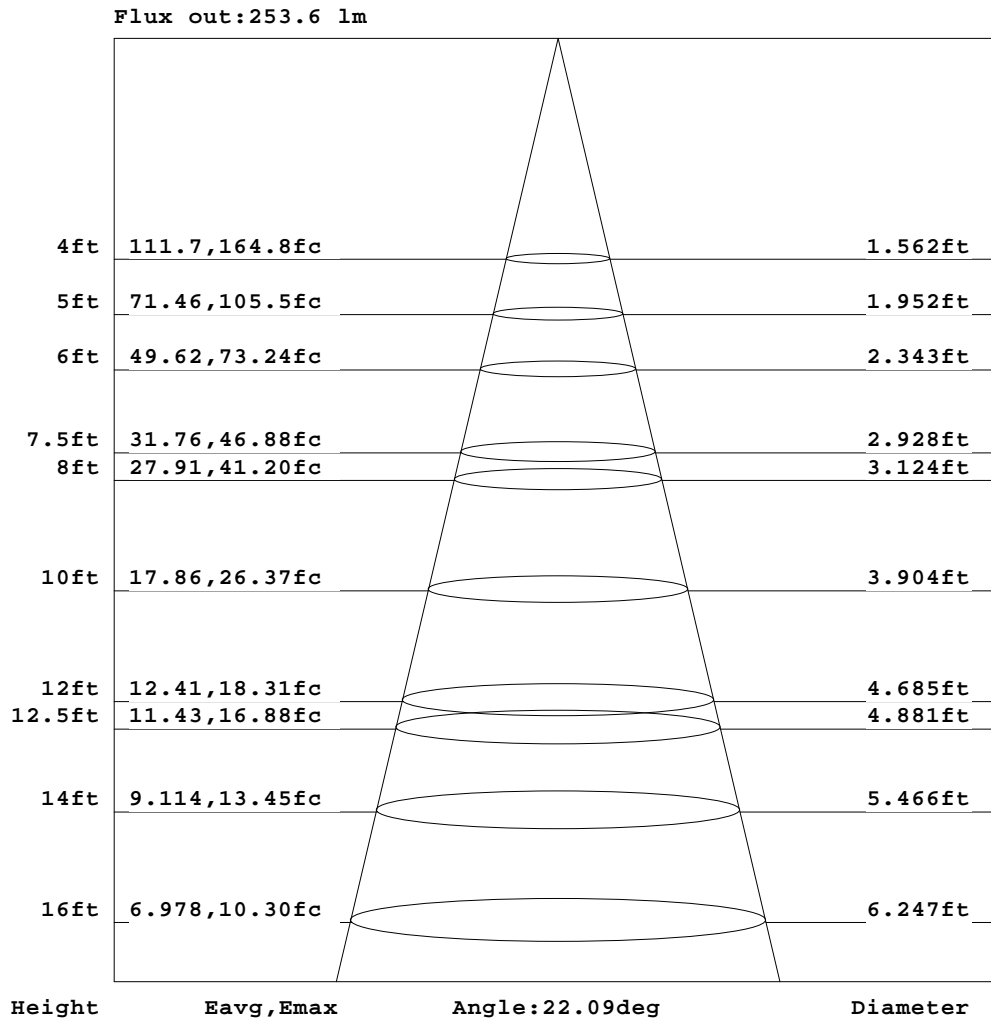


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra: 90  
LENS: PM-1084A 24R  
DRIVER: PUP10A-1WMC-350 260mA  
30minutes warm-up

## AAI Figure

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |



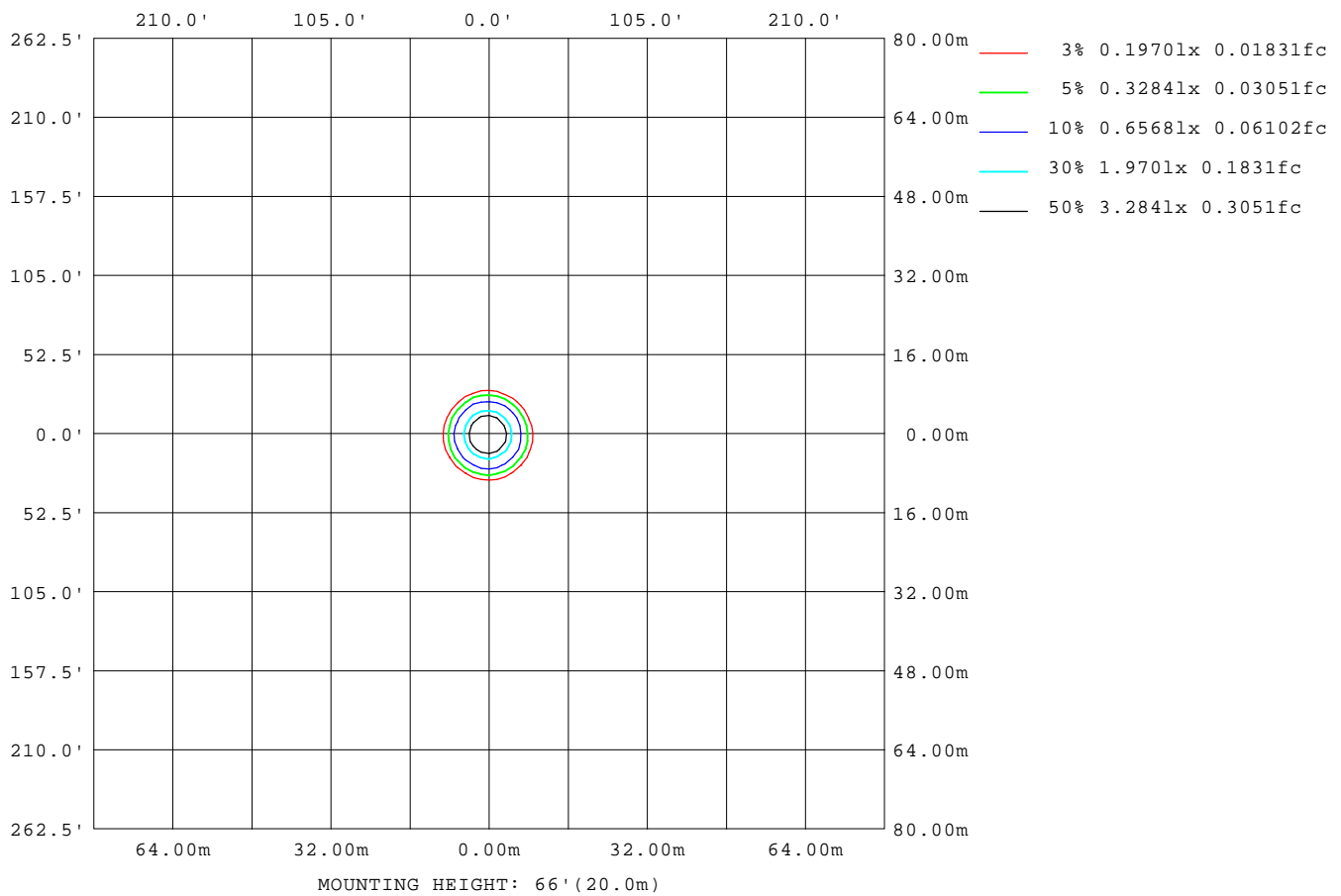
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

## ISOLUX DIAGRAM

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: zoe  
Test Date: 2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90  
LENS: PM-1084A 24R  
DRIVER: PUP10A-1WMC-350 260mA  
30minutes warm-up

## LED Avg.L Report

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |

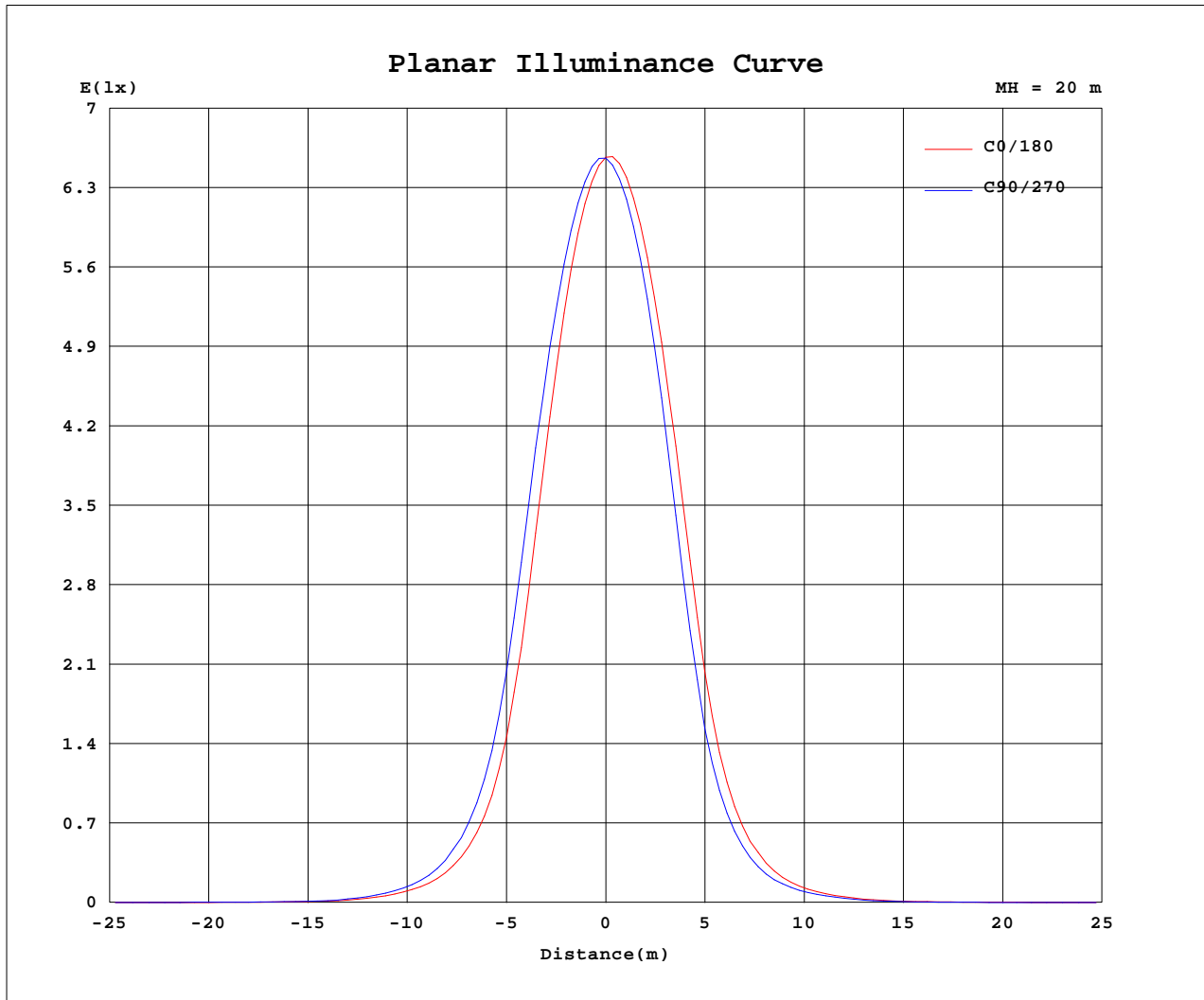
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 1231  |
| L_0~180(75)av  | 629   |
| L_0~180(85)av  | 546   |
| L_90~270(65)av | 1178  |
| L_90~270(75)av | 539   |
| L_90~270(85)av | 433   |
| L_45(65)av     | 1179  |
| L_45(75)av     | 553   |
| L_45(85)av     | 372   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS:PM-1084A 24R  
DRIVER:PUP10A-1WMC-350 260mA  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: zoe  
 Test Date: 2023-12-9

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90  
 LENS: PM-1084A 24R  
 DRIVER: PUP10A-1WMC-350 260mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                    |                        |
|---|--------------------|------------------------|
| Test:U:120.16V I:0.1024A P:12.191W PF:0.9894 Freq:59.98Hz<br>Lamp Flux:959.178x1 lm |                    |                        |
| NAME: 2318.121-LEA-13   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K  | DIM.:              | SERIAL No.: 2312091437 |
| MFR.: RISE  | SUR.: 0.00061544m2 | Shielding Angle:       |

Table--1

UNIT: cd

| C(DEG)<br>(DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0               | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 | 2627 |  |  |  |  |  |  |
| 5               | 2256 | 2307 | 2346 | 2399 | 2428 | 2440 | 2417 | 2379 | 2350 | 2295 | 2250 | 2227 |  |  |  |  |  |  |
| 10              | 1364 | 1476 | 1569 | 1679 | 1720 | 1735 | 1685 | 1605 | 1545 | 1430 | 1361 | 1319 |  |  |  |  |  |  |
| 15              | 525  | 596  | 658  | 738  | 794  | 781  | 730  | 664  | 613  | 547  | 510  | 494  |  |  |  |  |  |  |
| 20              | 195  | 229  | 249  | 277  | 286  | 284  | 260  | 233  | 220  | 192  | 181  | 178  |  |  |  |  |  |  |
| 25              | 76.0 | 88.3 | 97.6 | 106  | 106  | 105  | 96.8 | 87.9 | 79.4 | 71.8 | 69.0 | 69.0 |  |  |  |  |  |  |
| 30              | 30.1 | 34.9 | 38.5 | 41.3 | 41.8 | 41.8 | 38.9 | 34.6 | 32.0 | 29.6 | 28.7 | 27.8 |  |  |  |  |  |  |
| 35              | 10.7 | 11.7 | 12.2 | 13.0 | 13.9 | 14.6 | 13.8 | 12.1 | 10.7 | 9.86 | 9.70 | 9.81 |  |  |  |  |  |  |
| 40              | 5.31 | 5.77 | 6.11 | 6.35 | 6.64 | 6.92 | 6.56 | 5.51 | 5.09 | 4.48 | 4.45 | 4.71 |  |  |  |  |  |  |
| 45              | 2.88 | 3.15 | 3.39 | 3.60 | 3.76 | 3.95 | 3.67 | 2.92 | 2.86 | 2.32 | 2.28 | 2.45 |  |  |  |  |  |  |
| 50              | 1.44 | 1.62 | 1.77 | 1.96 | 2.12 | 2.50 | 2.16 | 1.59 | 1.19 | 1.01 | 1.02 | 1.16 |  |  |  |  |  |  |
| 55              | 0.91 | 0.93 | 0.97 | 1.06 | 1.15 | 1.22 | 1.19 | 0.88 | 0.66 | 0.59 | 0.63 | 0.75 |  |  |  |  |  |  |
| 60              | 0.49 | 0.50 | 0.54 | 0.61 | 0.69 | 0.74 | 0.73 | 0.60 | 0.47 | 0.43 | 0.44 | 0.48 |  |  |  |  |  |  |
| 65              | 0.25 | 0.26 | 0.27 | 0.32 | 0.36 | 0.40 | 0.39 | 0.34 | 0.32 | 0.30 | 0.27 | 0.25 |  |  |  |  |  |  |
| 70              | 0.13 | 0.13 | 0.14 | 0.16 | 0.19 | 0.21 | 0.21 | 0.18 | 0.16 | 0.15 | 0.14 | 0.13 |  |  |  |  |  |  |
| 75              | 0.08 | 0.08 | 0.08 | 0.09 | 0.10 | 0.12 | 0.12 | 0.10 | 0.08 | 0.08 | 0.08 | 0.07 |  |  |  |  |  |  |
| 80              | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 |  |  |  |  |  |  |
| 85              | 0.03 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |
| 95              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 100             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 105             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 110             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 115             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 120             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 125             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 130             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 135             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 140             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 145             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 150             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 155             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 160             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 165             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 170             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 175             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 180             | 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: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-12-9

Range: 0 - 180DEG  
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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
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