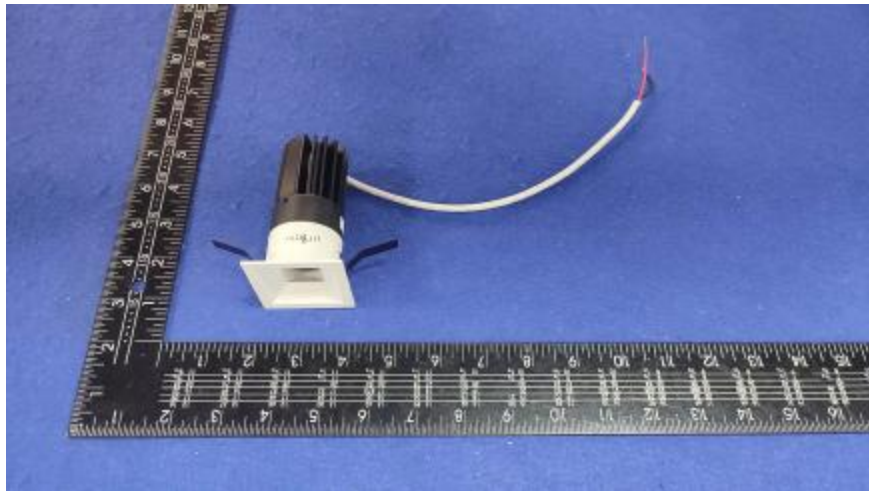


### Luminaire Photograph



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 69.7%   |                          |
| Luminaire Power:    | 9.367 W |                          |
| SHR Nominal:        | 0.50    | Calculated using the TM5 |
| SHR Maximum:        | 0.60    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Zoe  
Test Date: 2022-11-3

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER: 500mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

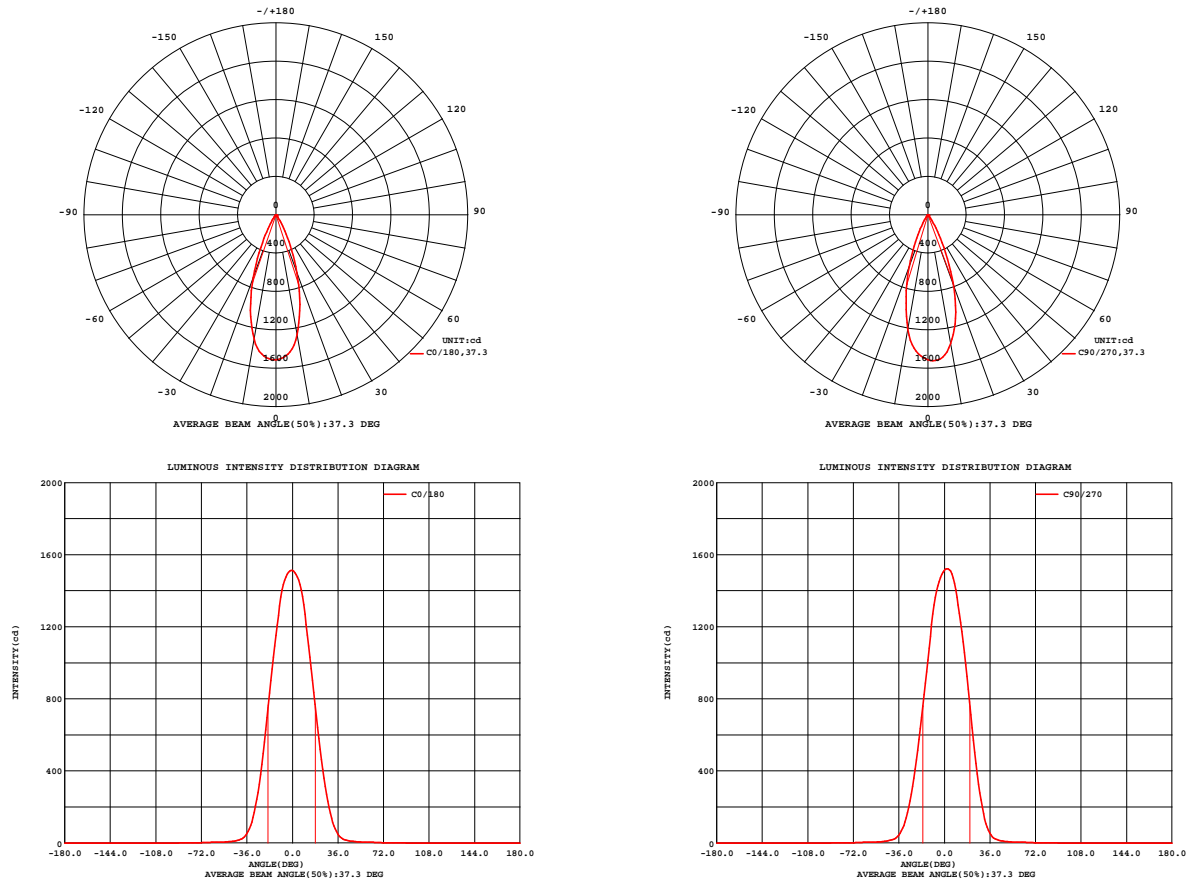


Fig. C0/C180

Fig. C90/C270

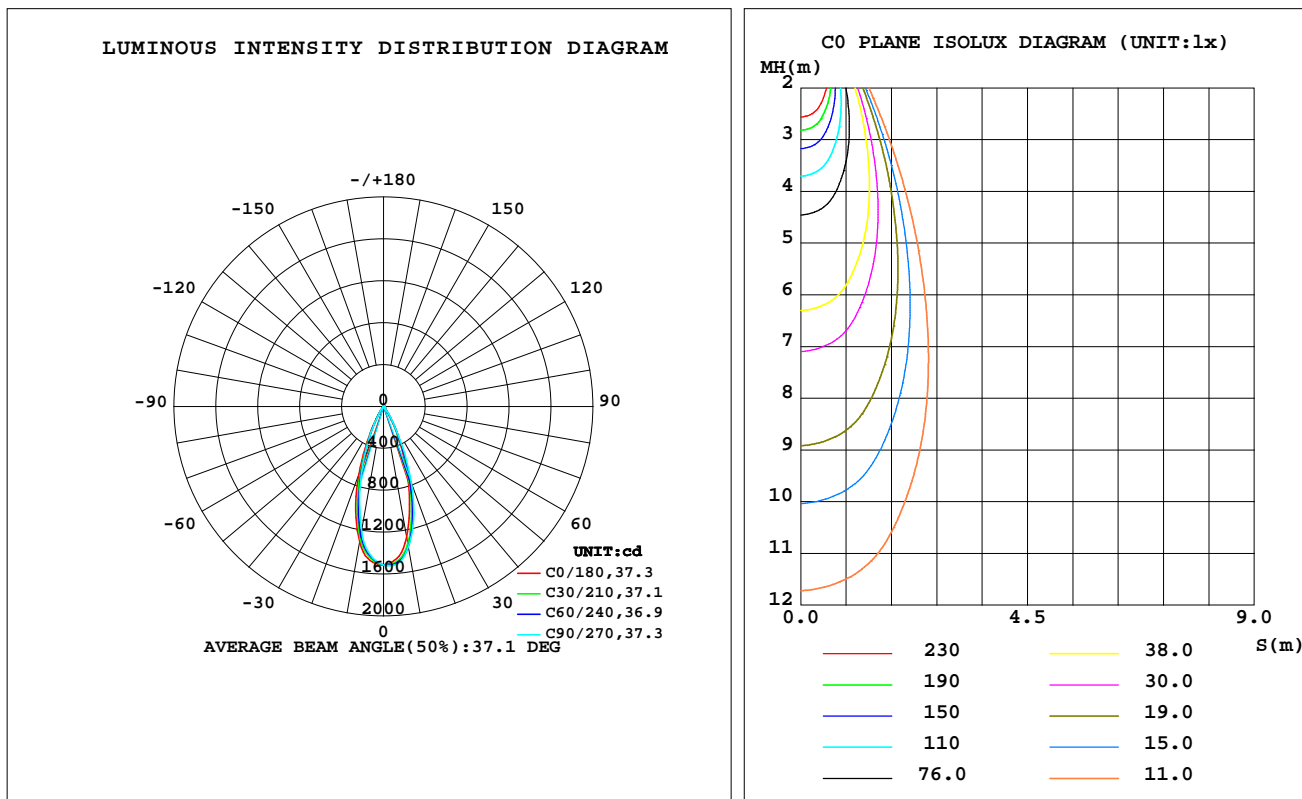
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Zoe  
Test Date: 2022-11-3

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra: 90  
LENS: PM-1084B 36R  
NO DRIVER: 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |

| DATA OF LAMP     |        | PHOTOMETRIC DATA Eff: 68.44 lm/W |        |                   |          |
|------------------|--------|----------------------------------|--------|-------------------|----------|
| MODEL            | CREE   | I <sub>max</sub> (cd)            | 1521   | S/MH(C0/180)      | 0.61     |
| NOMINAL POWER(W) | 9      | LOR(%)                           | 69.7   | S/MH(C90/270)     | 0.56     |
| RATED VOLTAGE(V) | 18     | TOTAL FLUX(lm)                   | 641.13 | η UP,DN(C0-180)   | 0.0,36.8 |
| NOMINAL FLUX(lm) | 919.82 | CIE CLASS                        | DIRECT | η UP,DN(C180-360) | 0.0,32.9 |
| LAMPS INSIDE     | 1      | η up(%)                          | 0.0    | CIBSE SHR NOM     | 0.50     |
| TEST VOLTAGE(V)  | 18     | η down(%)                        | 69.7   | CIBSE SHR MAX     | 0.60     |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10       | 1269                  | 1348   | 1364   | 1358   | 1316   | 1268   | 1212   | 1261   | 0- 10    | 135.0       | 135.0        | 21.1,14.7 |
| 20       | 641.9                 | 707.0  | 783.1  | 720.6  | 695.7  | 604.3  | 574.0  | 600.6  | 10- 20   | 272.3       | 407.3        | 63.5,44.3 |
| 30       | 165.3                 | 182.1  | 200.5  | 175.0  | 169.4  | 142.7  | 139.5  | 153.1  | 20- 30   | 170.0       | 577.3        | 90,62.8   |
| 40       | 22.67                 | 25.45  | 23.76  | 24.72  | 22.41  | 23.17  | 20.80  | 23.76  | 30- 40   | 44.47       | 621.8        | 97,67.6   |
| 50       | 7.276                 | 7.792  | 7.336  | 7.330  | 7.110  | 7.659  | 7.097  | 7.749  | 40- 50   | 9.880       | 631.7        | 98.5,68.7 |
| 60       | 4.615                 | 4.692  | 4.144  | 4.268  | 4.067  | 4.587  | 4.493  | 4.769  | 50- 60   | 5.006       | 636.7        | 99.3,69.2 |
| 70       | 1.920                 | 2.321  | 1.996  | 2.300  | 2.115  | 2.314  | 1.901  | 2.276  | 60- 70   | 3.500       | 640.2        | 99.8,69.6 |
| 80       | 0.1534                | 0.1724 | 0.1903 | 0.2056 | 0.2080 | 0.1879 | 0.1564 | 0.1542 | 70- 80   | 0.8804      | 641.0        | 100,69.7  |
| 90       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90   | 0.0841      | 641.1        | 100,69.7  |
| 100      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100   | 0           | 641.1        | 100,69.7  |
| 110      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110  | 0           | 641.1        | 100,69.7  |
| 120      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120  | 0           | 641.1        | 100,69.7  |
| 130      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130  | 0           | 641.1        | 100,69.7  |
| 140      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 130-140  | 0           | 641.1        | 100,69.7  |
| 150      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 140-150  | 0           | 641.1        | 100,69.7  |
| 160      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 150-160  | 0           | 641.1        | 100,69.7  |
| 170      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 160-170  | 0           | 641.1        | 100,69.7  |
| 180      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 170-180  | 0           | 641.1        | 100,69.7  |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:Zoe  
 Test Date:2022-11-3

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
 Humidity:65.0%  
 Test Distance:3.160m [K=1.0000]  
 Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
 LENS: PM-1084B 36R  
 NO DRIVER:500mA  
 30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz  
Lamp Flux:919.82x1 lm

NAME: 2218.117-LEA-09B

TYPE:

WEIGHT:

SPEC.: 3000K

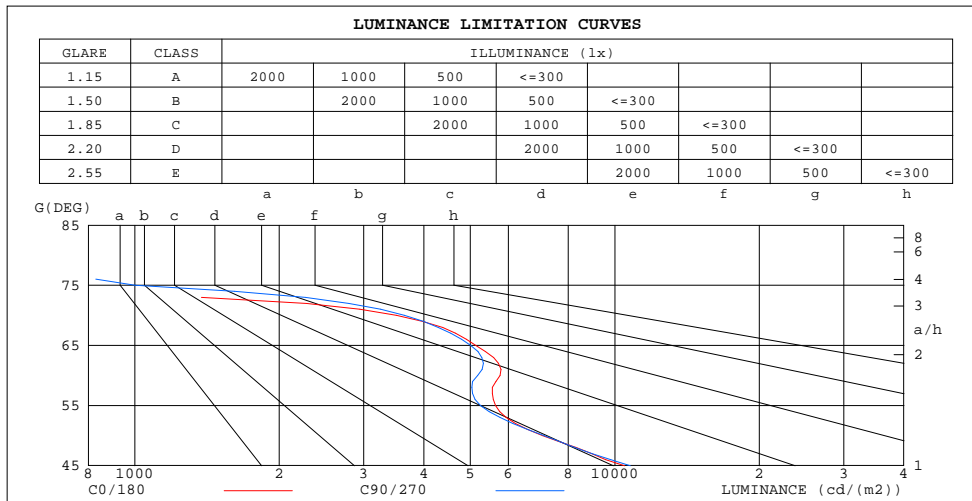
DIM.:

SERIAL No.: 2211031112

MFR.: RISE

SUR.: 0.0016m2

Shielding Angle:



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(180)            | C0/180 | C90/270 |
| 85                | 427    | 592     |
| 80                | 552    | 685     |
| 75                | 705    | 1000    |
| 70                | 3506   | 3645    |
| 65                | 5133   | 5010    |
| 60                | 5763   | 5178    |
| 55                | 5640   | 5252    |
| 50                | 7068   | 7130    |
| 45                | 10476  | 10766   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz  
Lamp Flux:919.82x1 lm

NAME: 2218.117-LEA-09B

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

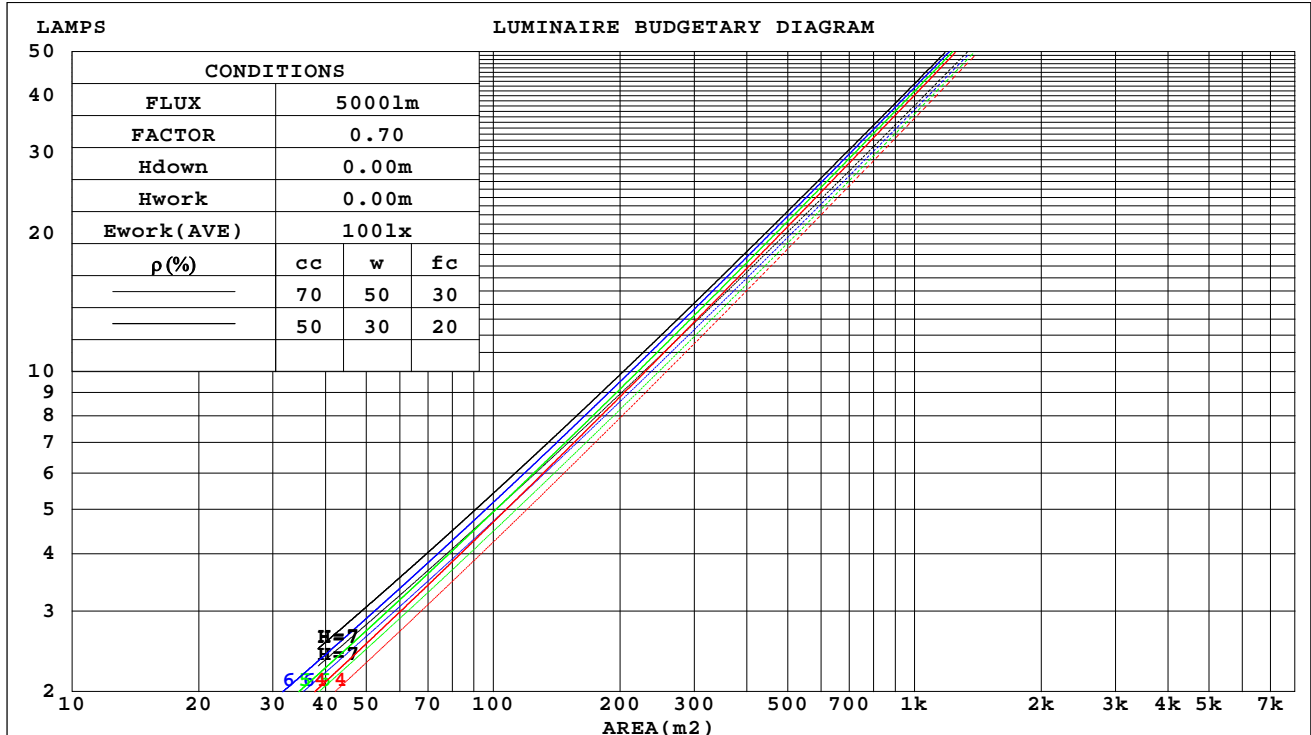
SERIAL No.: 2211031112

MFR.: RISE

SUR.: 0.0016m2

Shielding Angle:

| $\rho_{cc}$ | 80%                   |     |     | 70%                             |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0   |
|-------------|-----------------------|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| $\rho_w$    | 50%                   | 30% | 10% | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| $\rho_{fc}$ | 20%                   |     |     | 20%                             |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR         | RCR:Room Cavity Ratio |     |     | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |     |     |     |
| 0.0         | .83                   | .83 | .83 | .81                             | .81 | .81 | .77 | .77 | .77 | .74 | .74 | .74 | .71 | .71 | .71 | .70 |
| 1.0         | .78                   | .77 | .75 | .77                             | .75 | .74 | .74 | .73 | .72 | .71 | .70 | .70 | .69 | .68 | .68 | .66 |
| 2.0         | .74                   | .71 | .69 | .73                             | .70 | .69 | .70 | .69 | .67 | .68 | .67 | .66 | .66 | .65 | .64 | .63 |
| 3.0         | .70                   | .67 | .65 | .69                             | .66 | .64 | .67 | .65 | .63 | .65 | .64 | .62 | .64 | .62 | .61 | .60 |
| 4.0         | .66                   | .63 | .61 | .66                             | .63 | .60 | .64 | .62 | .60 | .63 | .61 | .59 | .62 | .60 | .58 | .57 |
| 5.0         | .63                   | .60 | .57 | .63                             | .60 | .57 | .61 | .59 | .57 | .60 | .58 | .56 | .59 | .57 | .56 | .55 |
| 6.0         | .60                   | .57 | .55 | .60                             | .57 | .54 | .59 | .56 | .54 | .58 | .56 | .54 | .57 | .55 | .53 | .52 |
| 7.0         | .58                   | .54 | .52 | .57                             | .54 | .52 | .57 | .54 | .52 | .56 | .53 | .51 | .55 | .53 | .51 | .50 |
| 8.0         | .55                   | .52 | .50 | .55                             | .52 | .50 | .54 | .51 | .49 | .54 | .51 | .49 | .53 | .51 | .49 | .48 |
| 9.0         | .53                   | .50 | .48 | .53                             | .50 | .48 | .52 | .49 | .47 | .52 | .49 | .47 | .51 | .49 | .47 | .46 |
| 10.0        | .51                   | .48 | .46 | .51                             | .48 | .46 | .50 | .48 | .46 | .50 | .47 | .45 | .50 | .47 | .45 | .45 |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:Zoe  
Test Date:2022-11-3

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

### WEC AND CCEC

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .108                  | .061 | .019 | .103 | .059 | .019 | .094                            | .054 | .017 | .086 | .050 | .016 | .079 | .046 | .015 |   |
| 2.0  | .101                  | .055 | .017 | .097 | .054 | .017 | .090                            | .050 | .016 | .083 | .047 | .015 | .077 | .044 | .014 |   |
| 3.0  | .095                  | .051 | .015 | .092 | .049 | .015 | .086                            | .047 | .014 | .080 | .044 | .014 | .075 | .042 | .013 |   |
| 4.0  | .090                  | .047 | .014 | .087 | .046 | .013 | .082                            | .044 | .013 | .077 | .041 | .013 | .073 | .040 | .012 |   |
| 5.0  | .085                  | .043 | .013 | .083 | .043 | .012 | .078                            | .041 | .012 | .074 | .039 | .012 | .070 | .038 | .011 |   |
| 6.0  | .081                  | .041 | .012 | .079 | .040 | .011 | .075                            | .039 | .011 | .072 | .037 | .011 | .068 | .036 | .011 |   |
| 7.0  | .077                  | .038 | .011 | .076 | .038 | .011 | .072                            | .036 | .011 | .069 | .035 | .010 | .066 | .034 | .010 |   |
| 8.0  | .074                  | .036 | .010 | .072 | .036 | .010 | .069                            | .035 | .010 | .067 | .034 | .010 | .064 | .033 | .010 |   |
| 9.0  | .071                  | .034 | .010 | .069 | .034 | .010 | .067                            | .033 | .009 | .064 | .032 | .009 | .062 | .031 | .009 |   |
| 10.0 | .068                  | .033 | .009 | .067 | .032 | .009 | .064                            | .032 | .009 | .062 | .031 | .009 | .060 | .030 | .009 |   |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%  |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  | .133                  | .133 | .133 | .113 | .113 | .113 | .077                                       | .077 | .077 | .044 | .044 | .044 | .014 | .014 | .014 |   |  |
| 1.0  | .118                  | .110 | .102 | .101 | .094 | .088 | .069                                       | .065 | .061 | .040 | .038 | .035 | .013 | .012 | .011 |   |  |
| 2.0  | .106                  | .092 | .081 | .091 | .080 | .070 | .062                                       | .055 | .049 | .036 | .032 | .029 | .012 | .010 | .009 |   |  |
| 3.0  | .097                  | .079 | .065 | .083 | .068 | .056 | .057                                       | .047 | .039 | .033 | .028 | .023 | .011 | .009 | .008 |   |  |
| 4.0  | .089                  | .069 | .053 | .076 | .059 | .046 | .052                                       | .041 | .032 | .030 | .024 | .019 | .010 | .008 | .006 |   |  |
| 5.0  | .082                  | .060 | .044 | .070 | .052 | .038 | .048                                       | .036 | .027 | .028 | .021 | .016 | .009 | .007 | .005 |   |  |
| 6.0  | .076                  | .053 | .037 | .065 | .046 | .032 | .045                                       | .032 | .023 | .026 | .019 | .014 | .008 | .006 | .004 |   |  |
| 7.0  | .071                  | .048 | .031 | .061 | .042 | .027 | .042                                       | .029 | .019 | .025 | .017 | .012 | .008 | .006 | .004 |   |  |
| 8.0  | .067                  | .043 | .027 | .058 | .038 | .024 | .040                                       | .026 | .017 | .023 | .016 | .010 | .008 | .005 | .003 |   |  |
| 9.0  | .063                  | .040 | .024 | .055 | .034 | .021 | .038                                       | .024 | .015 | .022 | .014 | .009 | .007 | .005 | .003 |   |  |
| 10.0 | .060                  | .036 | .021 | .052 | .032 | .018 | .036                                       | .022 | .013 | .021 | .013 | .008 | .007 | .004 | .003 |   |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

|  |                  |      |      |      |                |                |      |                        |      |      |
|--|------------------|------|------|------|----------------|----------------|------|------------------------|------|------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                  |      |      |      |                |                |      |                        |      |      |
| NAME: 2218.117-LEA-09B   |                  |      |      |      | TYPE:          |                |      | WEIGHT:                |      |      |
| SPEC.: 3000K   |                  |      |      |      | DIM.:          |                |      | SERIAL No.: 2211031112 |      |      |
| MFR.: RISE   |                  |      |      |      | SUR.: 0.0016m2 |                |      | 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  | 14.5             | 15.3 | 14.7 | 15.4 | 15.6           | 14.9           | 15.7 | 15.1                   | 15.8 | 16.0 |
| 3H   | 14.6             | 15.4 | 14.9 | 15.5 | 15.7           | 15.0           | 15.7 | 15.2                   | 15.9 | 16.1 |
| 4H   | 14.6             | 15.3 | 14.8 | 15.5 | 15.7           | 14.9           | 15.6 | 15.2                   | 15.8 | 16.0 |
| 6H   | 14.5             | 15.1 | 14.8 | 15.4 | 15.6           | 14.8           | 15.5 | 15.1                   | 15.7 | 16.0 |
| 8H   | 14.4             | 15.1 | 14.7 | 15.3 | 15.6           | 14.8           | 15.4 | 15.1                   | 15.7 | 15.9 |
| 12H  | 14.4             | 15.0 | 14.7 | 15.3 | 15.5           | 14.8           | 15.4 | 15.1                   | 15.6 | 15.9 |
| 4H 2H  | 14.5             | 15.1 | 14.7 | 15.4 | 15.6           | 14.8           | 15.5 | 15.1                   | 15.7 | 15.9 |
| 3H   | 14.7             | 15.3 | 15.0 | 15.5 | 15.8           | 15.0           | 15.6 | 15.3                   | 15.8 | 16.1 |
| 4H   | 14.6             | 15.1 | 14.9 | 15.4 | 15.7           | 14.9           | 15.5 | 15.3                   | 15.8 | 16.1 |
| 6H   | 14.5             | 15.0 | 14.9 | 15.3 | 15.7           | 14.8           | 15.3 | 15.2                   | 15.7 | 16.0 |
| 8H   | 14.5             | 14.9 | 14.9 | 15.3 | 15.6           | 14.8           | 15.2 | 15.2                   | 15.6 | 16.0 |
| 12H  | 14.4             | 14.8 | 14.8 | 15.2 | 15.6           | 14.7           | 15.1 | 15.1                   | 15.5 | 15.9 |
| 8H 4H  | 14.5             | 14.9 | 14.9 | 15.3 | 15.6           | 14.8           | 15.3 | 15.2                   | 15.6 | 16.0 |
| 6H   | 14.4             | 14.8 | 14.8 | 15.1 | 15.6           | 14.7           | 15.1 | 15.1                   | 15.5 | 15.9 |
| 8H   | 14.3             | 14.7 | 14.8 | 15.1 | 15.5           | 14.7           | 15.0 | 15.1                   | 15.4 | 15.8 |
| 12H  | 14.3             | 14.6 | 14.7 | 15.0 | 15.5           | 14.6           | 14.9 | 15.1                   | 15.3 | 15.8 |
| 12H 4H   | 14.4             | 14.8 | 14.8 | 15.2 | 15.6           | 14.8           | 15.2 | 15.2                   | 15.5 | 15.9 |
| 6H   | 14.3             | 14.7 | 14.8 | 15.1 | 15.5           | 14.7           | 15.0 | 15.1                   | 15.4 | 15.8 |
| 8H   | 14.3             | 14.6 | 14.7 | 15.0 | 15.5           | 14.6           | 14.9 | 15.1                   | 15.3 | 15.8 |
| Variations with the observer position at spacings(CIE Pub.117):                    |                  |      |      |      |                |                |      |                        |      |      |
| S = 1.0H   | + 2.3 / - 2.8    |      |      |      |                | + 2.7 / - 3.0  |      |                        |      |      |
| 1.5H   | + 4.0 / - 2.5    |      |      |      |                | + 4.5 / - 2.6  |      |                        |      |      |
| 2.0H   | + 1.7 / - 1.1    |      |      |      |                | + 2.0 / - 1.3  |      |                        |      |      |

CIE Pub.117, 919.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)  
Area: 0.0016 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up



### UTILIZATION FACTORS TABLE

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |

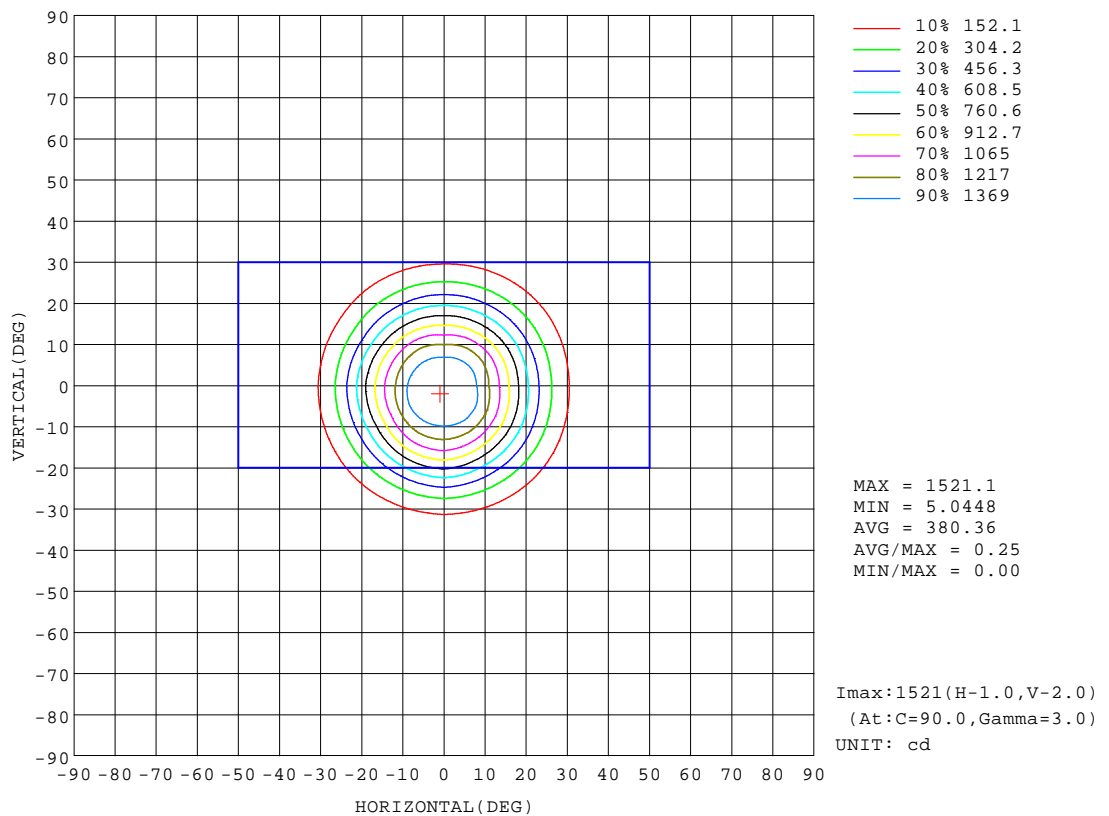
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 63  | 58  | 56        | 62  | 58  | 56  | 62  | 58            | 56  | 53     |
| 0.80                             | 67  | 64  | 61        | 67  | 63  | 61  | 66  | 63            | 61  | 59     |
| 1.00                             | 70  | 67  | 64        | 70  | 66  | 64  | 69  | 66            | 64  | 61     |
| 1.25                             | 73  | 69  | 67        | 72  | 69  | 67  | 71  | 68            | 66  | 64     |
| 1.50                             | 75  | 71  | 69        | 74  | 71  | 69  | 72  | 70            | 68  | 65     |
| 2.00                             | 76  | 73  | 71        | 75  | 73  | 71  | 73  | 71            | 70  | 66     |
| 2.50                             | 77  | 75  | 73        | 76  | 74  | 72  | 74  | 72            | 71  | 67     |
| 3.00                             | 78  | 76  | 74        | 77  | 75  | 74  | 75  | 73            | 72  | 68     |
| 4.00                             | 80  | 78  | 76        | 78  | 77  | 75  | 76  | 75            | 74  | 69     |
| 5.00                             | 80  | 79  | 78        | 79  | 78  | 77  | 76  | 75            | 75  | 69     |
| 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:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |

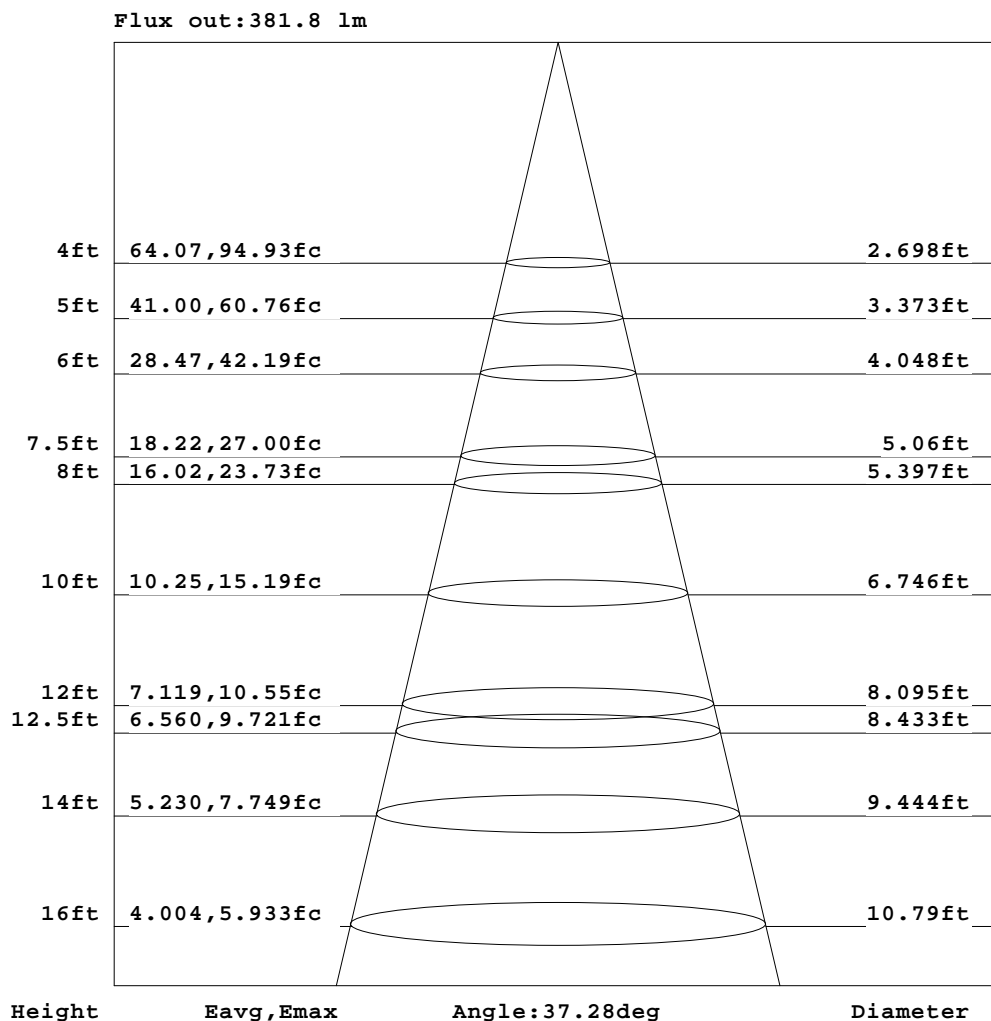


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## AAI Figure

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |



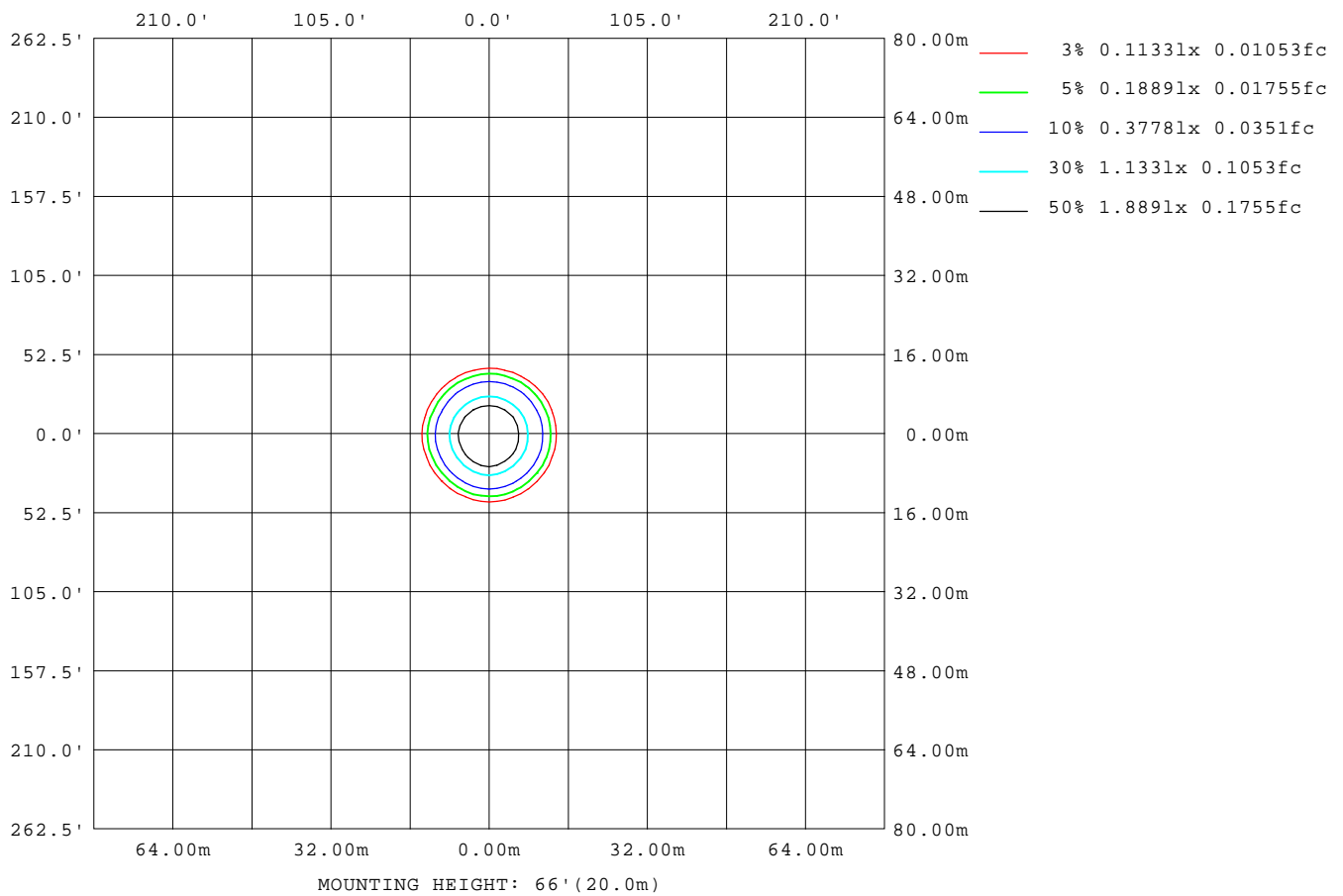
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## ISOLUX DIAGRAM

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up

## LED Avg.L Report

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |

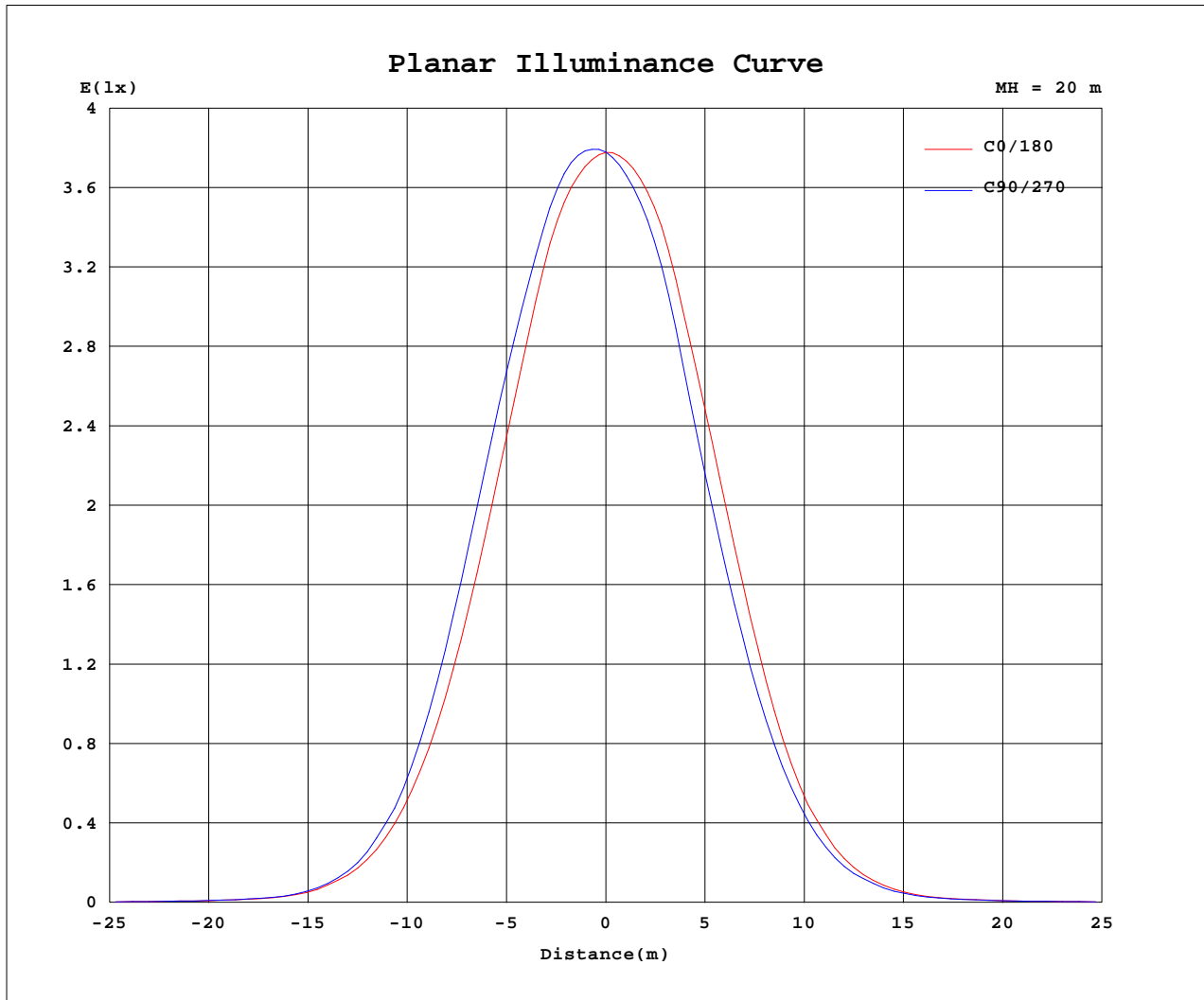
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 5053  |
| L_0~180(75)av  | 971   |
| L_0~180(85)av  | 538   |
| L_90~270(65)av | 5047  |
| L_90~270(75)av | 869   |
| L_90~270(85)av | 532   |
| L_45(65)av     | 5661  |
| L_45(75)av     | 1820  |
| L_45(85)av     | 493   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
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: 2022-11-3

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90  
 LENS: PM-1084B 36R  
 NO DRIVER: 500mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                |                        |
|--|----------------|------------------------|
| Test:U:18.742V I:0.4998A P:9.3672W PF:1.0000 Freq:59.99Hz<br>Lamp Flux:919.82x1 lm |                |                        |
| NAME: 2218.117-LEA-09B   | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2211031112 |
| MFR.: RISE   | SUR.: 0.0016m2 | Shielding Angle:       |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 | 1513 |  |  |  |  |  |  |
| 5                 | 1459 | 1483 | 1497 | 1508 | 1503 | 1491 | 1476 | 1452 | 1436 | 1427 | 1433 | 1445 |  |  |  |  |  |  |
| 10                | 1269 | 1333 | 1362 | 1364 | 1364 | 1351 | 1316 | 1284 | 1253 | 1212 | 1250 | 1271 |  |  |  |  |  |  |
| 15                | 967  | 1035 | 1080 | 1116 | 1102 | 1046 | 1030 | 970  | 921  | 886  | 912  | 953  |  |  |  |  |  |  |
| 20                | 642  | 691  | 723  | 783  | 747  | 694  | 696  | 623  | 586  | 574  | 583  | 618  |  |  |  |  |  |  |
| 25                | 360  | 390  | 408  | 441  | 408  | 382  | 378  | 330  | 316  | 313  | 323  | 342  |  |  |  |  |  |  |
| 30                | 165  | 179  | 185  | 200  | 180  | 170  | 169  | 145  | 141  | 140  | 147  | 159  |  |  |  |  |  |  |
| 35                | 65.1 | 68.5 | 72.7 | 70.4 | 69.7 | 65.2 | 64.3 | 56.3 | 55.8 | 53.8 | 57.4 | 64.8 |  |  |  |  |  |  |
| 40                | 22.7 | 25.3 | 25.6 | 23.8 | 24.2 | 25.2 | 22.4 | 22.7 | 23.6 | 20.8 | 23.1 | 24.4 |  |  |  |  |  |  |
| 45                | 11.9 | 11.9 | 12.0 | 12.2 | 11.2 | 11.3 | 11.7 | 11.3 | 11.8 | 11.5 | 11.4 | 11.8 |  |  |  |  |  |  |
| 50                | 7.28 | 7.84 | 7.74 | 7.34 | 7.32 | 7.33 | 7.11 | 7.48 | 7.84 | 7.10 | 7.64 | 7.86 |  |  |  |  |  |  |
| 55                | 5.18 | 5.78 | 5.71 | 4.82 | 5.35 | 5.37 | 4.79 | 5.53 | 5.73 | 5.03 | 5.65 | 5.88 |  |  |  |  |  |  |
| 60                | 4.61 | 4.75 | 4.63 | 4.14 | 4.28 | 4.26 | 4.07 | 4.48 | 4.69 | 4.49 | 4.71 | 4.83 |  |  |  |  |  |  |
| 65                | 3.47 | 3.90 | 3.81 | 3.39 | 3.63 | 3.56 | 3.36 | 3.68 | 3.87 | 3.44 | 3.85 | 3.96 |  |  |  |  |  |  |
| 70                | 1.92 | 2.38 | 2.26 | 2.00 | 2.33 | 2.27 | 2.11 | 2.30 | 2.33 | 1.90 | 2.23 | 2.33 |  |  |  |  |  |  |
| 75                | 0.29 | 0.60 | 0.73 | 0.41 | 0.82 | 0.87 | 0.51 | 0.82 | 0.74 | 0.31 | 0.52 | 0.60 |  |  |  |  |  |  |
| 80                | 0.15 | 0.16 | 0.18 | 0.19 | 0.21 | 0.21 | 0.21 | 0.20 | 0.18 | 0.16 | 0.15 | 0.15 |  |  |  |  |  |  |
| 85                | 0.06 | 0.06 | 0.07 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.07 | 0.07 | 0.06 | 0.05 |  |  |  |  |  |  |
| 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:2022-11-3

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
NO DRIVER:500mA  
30minutes warm-up