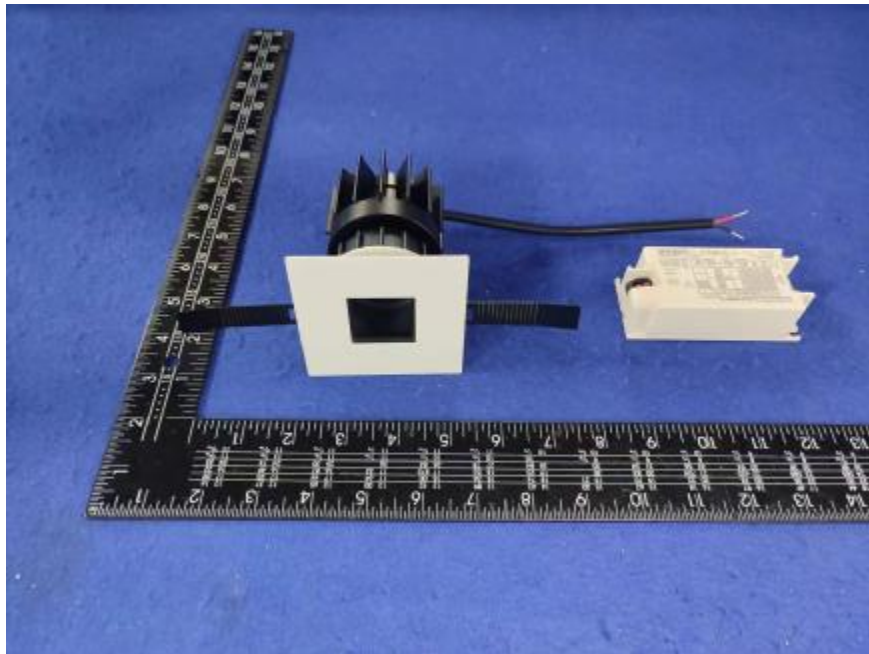


### Luminaire Photograph



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 61.6%   |                          |
| Luminaire Power:    | 13.68 W |                          |
| SHR Nominal:        | 0.75    | Calculated using the TM5 |
| SHR Maximum:        | 0.85    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-8-7

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: BXRE-30G1000-A-83 Ra:90  
LENS: PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

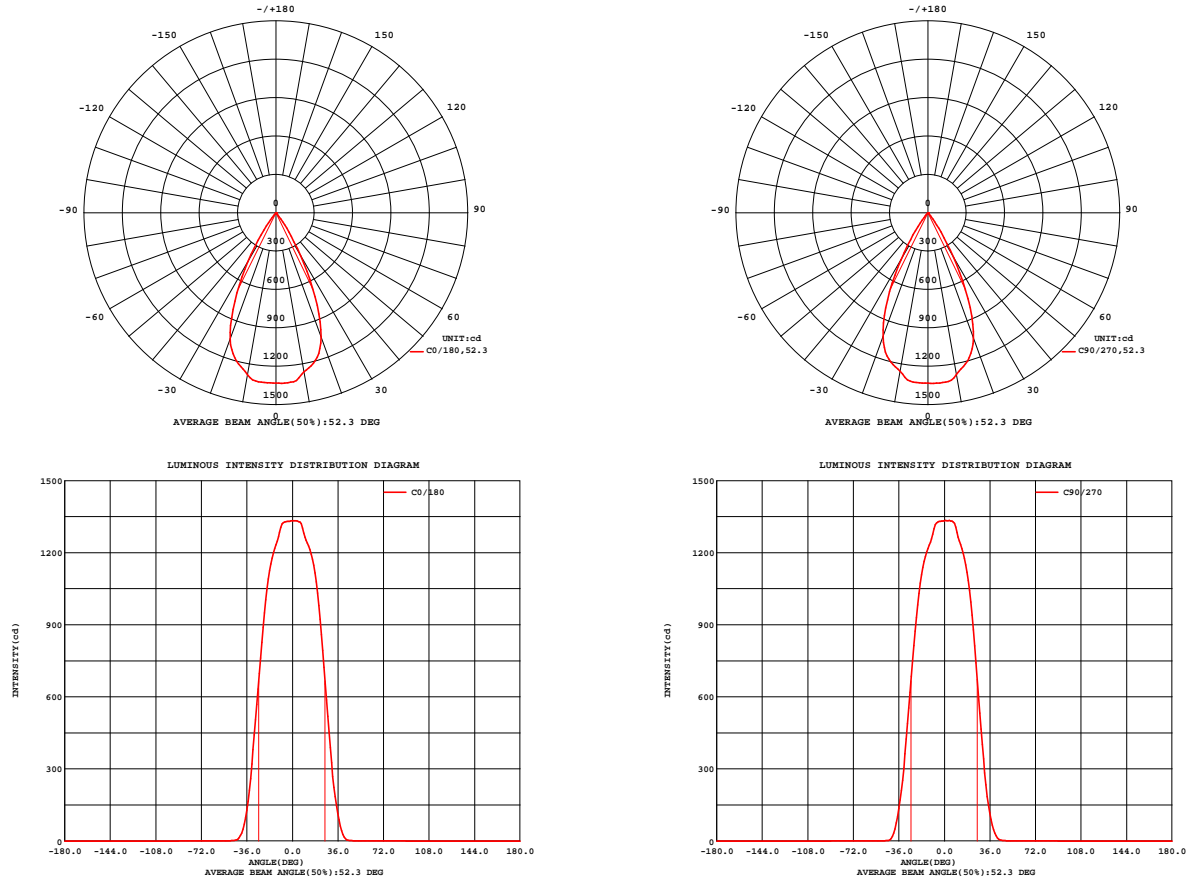


Fig. C0/C180

Fig. C90/C270

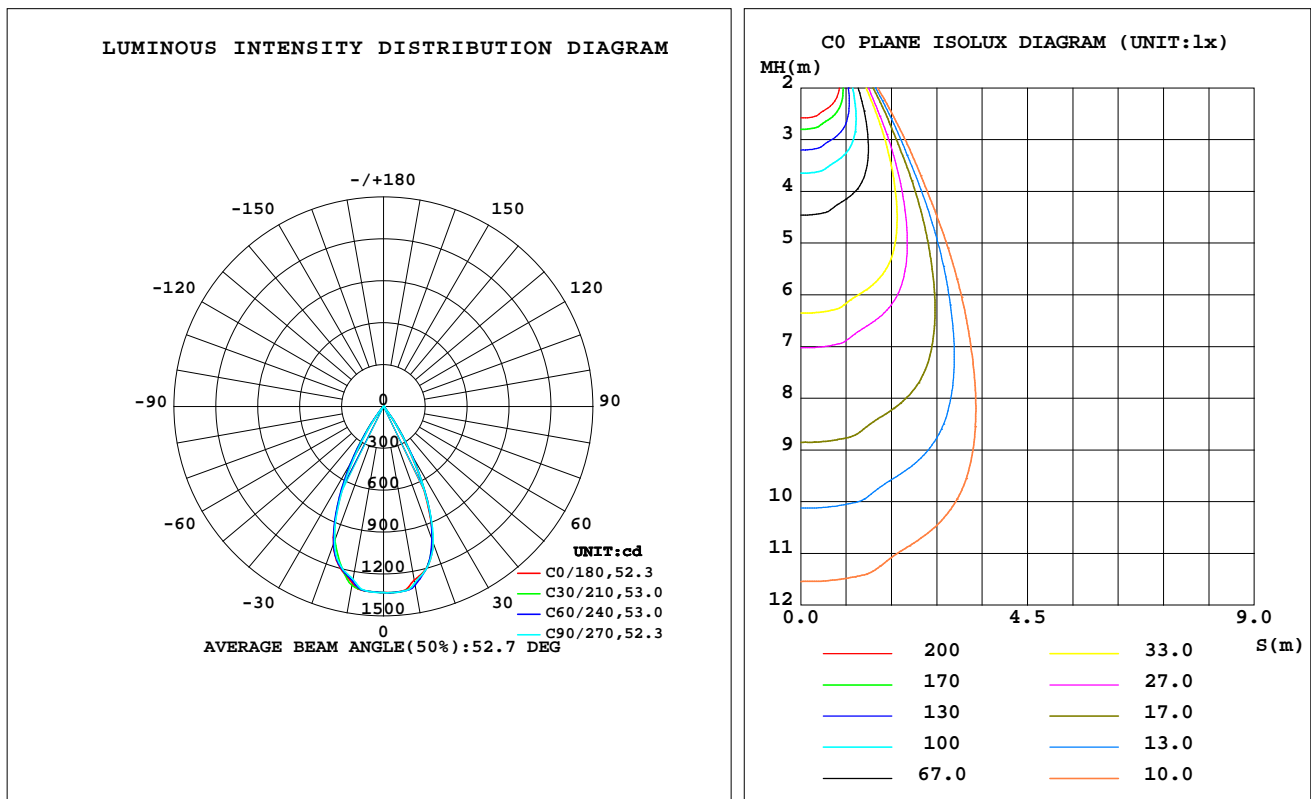
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-8-7

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: BXRE-30G1000-A-83 Ra: 90  
LENS: PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |

| DATA OF LAMP     |           | PHOTOMETRIC DATA Eff: 67.14 lm/W |        |                 |          |
|------------------|-----------|----------------------------------|--------|-----------------|----------|
| MODEL            | Bridgelux | I <sub>max</sub> (cd)            | 1334   | S/MH(C0/180)    | 0.79     |
| NOMINAL POWER(W) | 14        | LOR(%)                           | 61.6   | S/MH(C90/270)   | 0.78     |
| RATED VOLTAGE(V) | 220       | TOTAL FLUX(lm)                   | 918.36 | UP,DN(C0-180)   | 0.0,30.5 |
| NOMINAL FLUX(lm) | 1490.38   | CIE CLASS                        | DIRECT | UP,DN(C180-360) | 0.0,31.1 |
| LAMPS INSIDE     | 1         | up(%)                            | 0.0    | CIBSE SHR NOM   | 0.75     |
| TEST VOLTAGE(V)  | 220       | down(%)                          | 61.6   | CIBSE SHR MAX   | 0.85     |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

|     | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   |         | zone    | total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------|-----------|
| 10  | 1264                  | 1294   | 1284   | 1302   | 1285   | 1287   | 1257   | 1287   | 0- 10   | 125.8   | 125.8 | 13.7,8.44 |
| 20  | 1032                  | 1019   | 1042   | 1025   | 1051   | 1033   | 1030   | 1026   | 10- 20  | 330.7   | 456.5 | 49.7,30.6 |
| 30  | 388.2                 | 418.4  | 401.7  | 444.3  | 442.2  | 474.0  | 424.9  | 447.2  | 20- 30  | 337.8   | 794.3 | 86.5,53.3 |
| 40  | 27.92                 | 37.99  | 32.02  | 40.84  | 33.02  | 42.02  | 32.42  | 41.30  | 30- 40  | 116.7   | 911.0 | 99.2,61.1 |
| 50  | 0.7300                | 1.073  | 0.8413 | 1.398  | 0.8390 | 1.015  | 0.5795 | 0.9114 | 40- 50  | 6.813   | 917.8 | 99.9,61.6 |
| 60  | 0.1442                | 0.1497 | 0.1573 | 0.1695 | 0.1693 | 0.1611 | 0.1572 | 0.1445 | 50- 60  | 0.3514  | 918.2 | 100,61.6  |
| 70  | 0.0677                | 0.0605 | 0.0794 | 0.0710 | 0.0819 | 0.0630 | 0.0739 | 0.0550 | 60- 70  | 0.1009  | 918.3 | 100,61.6  |
| 80  | 0.0351                | 0.0290 | 0.0508 | 0.0357 | 0.0477 | 0.0292 | 0.0428 | 0.0209 | 70- 80  | 0.0519  | 918.3 | 100,61.6  |
| 90  | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90  | 0.0217  | 918.4 | 100,61.6  |
| 100 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100  | 0       | 918.4 | 100,61.6  |
| 110 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110 | 0       | 918.4 | 100,61.6  |
| 120 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120 | 0       | 918.4 | 100,61.6  |
| 130 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130 | 0       | 918.4 | 100,61.6  |
| 140 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 130-140 | 0       | 918.4 | 100,61.6  |
| 150 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 140-150 | 0       | 918.4 | 100,61.6  |
| 160 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 150-160 | 0       | 918.4 | 100,61.6  |
| 170 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 160-170 | 0       | 918.4 | 100,61.6  |
| 180 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 170-180 | 0       | 918.4 | 100,61.6  |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT:lm |       |           |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz  
Lamp Flux:1490.38x1 lm

NAME: 2418.102-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

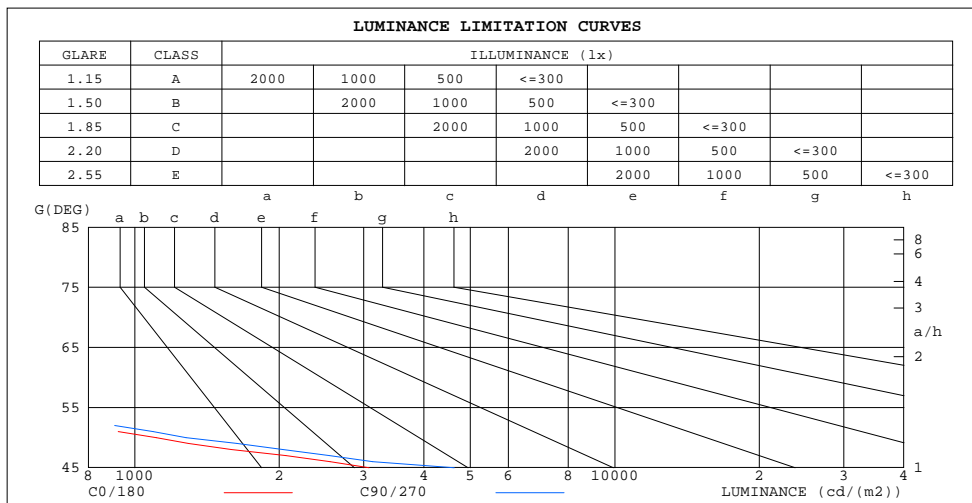
DIM.:

SERIAL No.: 2408070993

MFR.: RISE

SUR.: 0.001024m2

Shielding Angle:



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(180)            | C0/180 | C90/270 |
| 85                | 177    | 288     |
| 80                | 197    | 286     |
| 75                | 188    | 241     |
| 70                | 193    | 227     |
| 65                | 218    | 241     |
| 60                | 282    | 307     |
| 55                | 457    | 497     |
| 50                | 1109   | 1278    |
| 45                | 3077   | 4628    |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz  
Lamp Flux:1490.38x1 lm

NAME: 2418.102-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

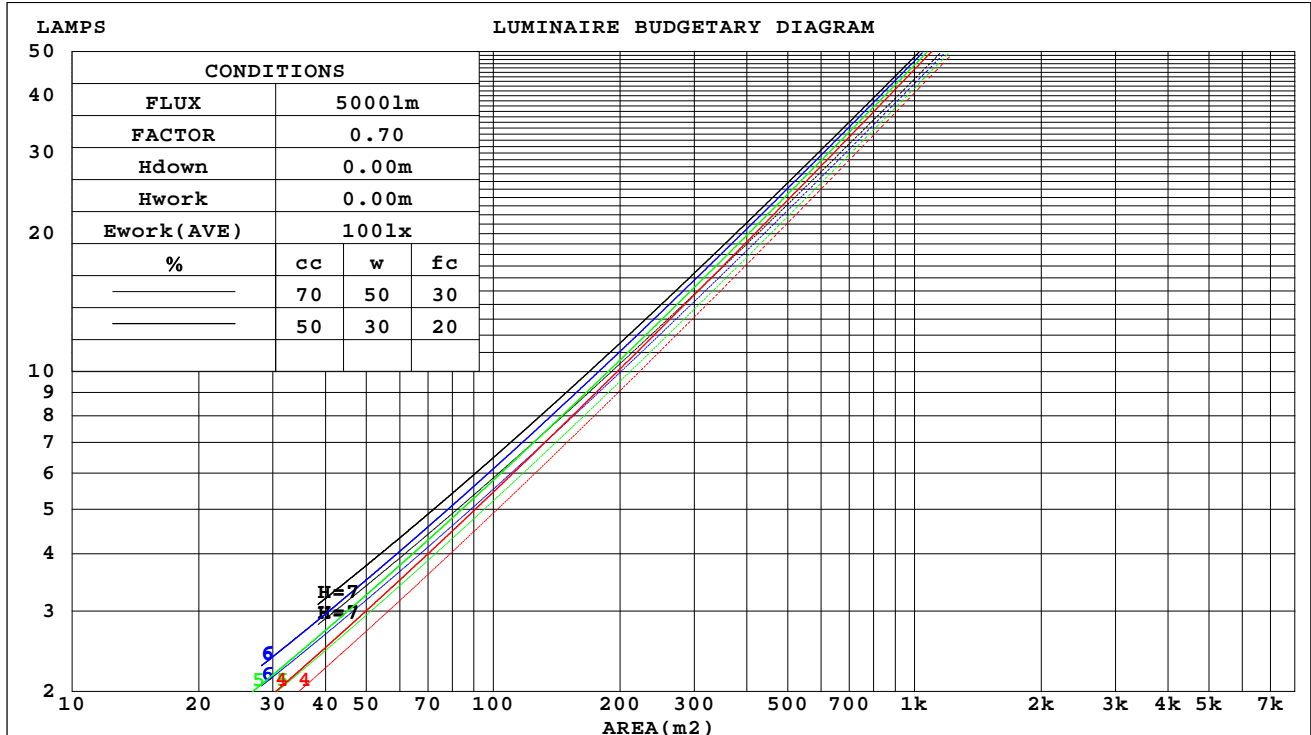
SERIAL No.: 2408070993

MFR.: RISE

SUR.: 0.001024m2

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 Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0.0  | .73   | .73 | .73 | .72 | .72 | .72 | .68 | .68 | .68 | .66 | .66 | .66 | .63 | .63 | .63 | .62 |
| 1.0  | .69   | .67 | .66 | .67 | .66 | .65 | .65 | .64 | .63 | .63 | .62 | .61 | .61 | .60 | .59 | .58 |
| 2.0  | .65   | .62 | .61 | .64 | .62 | .60 | .62 | .60 | .59 | .60 | .58 | .57 | .58 | .57 | .56 | .55 |
| 3.0  | .61   | .58 | .56 | .60 | .58 | .56 | .58 | .56 | .55 | .57 | .55 | .54 | .56 | .54 | .53 | .52 |
| 4.0  | .58   | .54 | .52 | .57 | .54 | .52 | .56 | .53 | .51 | .54 | .52 | .51 | .53 | .52 | .50 | .49 |
| 5.0  | .54   | .51 | .49 | .54 | .51 | .49 | .53 | .50 | .48 | .52 | .50 | .48 | .51 | .49 | .47 | .47 |
| 6.0  | .52   | .48 | .46 | .51 | .48 | .46 | .50 | .48 | .46 | .49 | .47 | .45 | .49 | .47 | .45 | .44 |
| 7.0  | .49   | .46 | .43 | .49 | .45 | .43 | .48 | .45 | .43 | .47 | .45 | .43 | .46 | .44 | .43 | .42 |
| 8.0  | .47   | .43 | .41 | .46 | .43 | .41 | .46 | .43 | .41 | .45 | .42 | .41 | .44 | .42 | .40 | .40 |
| 9.0  | .44   | .41 | .39 | .44 | .41 | .39 | .44 | .41 | .39 | .43 | .40 | .39 | .43 | .40 | .38 | .38 |
| 10.0 | .42   | .39 | .37 | .42 | .39 | .37 | .42 | .39 | .37 | .41 | .39 | .37 | .41 | .38 | .37 | .36 |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

### WEC AND CCEC

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | 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  | .100  | .057 | .018 | .095 | .054 | .017 | .088 | .050 | .016 | .081 | .047 | .015 | .074 | .043 | .014 |   |
| 2.0  | .094  | .052 | .016 | .091 | .050 | .015 | .084 | .047 | .015 | .079 | .044 | .014 | .073 | .041 | .013 |   |
| 3.0  | .089  | .048 | .014 | .087 | .046 | .014 | .081 | .044 | .013 | .076 | .042 | .013 | .071 | .040 | .012 |   |
| 4.0  | .085  | .044 | .013 | .083 | .043 | .013 | .078 | .041 | .012 | .074 | .040 | .012 | .070 | .038 | .012 |   |
| 5.0  | .081  | .041 | .012 | .079 | .041 | .012 | .075 | .039 | .011 | .071 | .038 | .011 | .068 | .036 | .011 |   |
| 6.0  | .078  | .039 | .011 | .076 | .038 | .011 | .072 | .037 | .011 | .069 | .036 | .011 | .066 | .035 | .010 |   |
| 7.0  | .074  | .037 | .010 | .073 | .036 | .010 | .069 | .035 | .010 | .067 | .034 | .010 | .064 | .033 | .010 |   |
| 8.0  | .071  | .035 | .010 | .070 | .034 | .010 | .067 | .033 | .010 | .064 | .033 | .009 | .062 | .032 | .009 |   |
| 9.0  | .068  | .033 | .009 | .067 | .033 | .009 | .065 | .032 | .009 | .062 | .031 | .009 | .060 | .031 | .009 |   |
| 10.0 | .066  | .032 | .009 | .065 | .031 | .009 | .063 | .031 | .009 | .060 | .030 | .009 | .058 | .029 | .008 |   |

| 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  | .117   | .117 | .117 | .100 | .100 | .100 | .068 | .068 | .068 | .039 | .039 | .039 | .013 | .013 | .013 |   |
| 1.0  | .105   | .097 | .090 | .090 | .083 | .077 | .061 | .057 | .054 | .035 | .033 | .031 | .011 | .011 | .010 |   |
| 2.0  | .095   | .082 | .071 | .081 | .070 | .061 | .056 | .049 | .043 | .032 | .028 | .025 | .010 | .009 | .008 |   |
| 3.0  | .087   | .070 | .057 | .074 | .060 | .049 | .051 | .042 | .034 | .029 | .024 | .020 | .009 | .008 | .007 |   |
| 4.0  | .080   | .061 | .046 | .068 | .052 | .040 | .047 | .037 | .028 | .027 | .021 | .017 | .009 | .007 | .005 |   |
| 5.0  | .074   | .053 | .038 | .064 | .046 | .033 | .044 | .032 | .023 | .025 | .019 | .014 | .008 | .006 | .005 |   |
| 6.0  | .069   | .048 | .032 | .060 | .041 | .028 | .041 | .029 | .020 | .024 | .017 | .012 | .008 | .006 | .004 |   |
| 7.0  | .065   | .043 | .027 | .056 | .037 | .024 | .039 | .026 | .017 | .023 | .015 | .010 | .007 | .005 | .003 |   |
| 8.0  | .062   | .039 | .023 | .053 | .034 | .020 | .037 | .024 | .014 | .021 | .014 | .009 | .007 | .005 | .003 |   |
| 9.0  | .059   | .036 | .020 | .050 | .031 | .018 | .035 | .022 | .012 | .020 | .013 | .007 | .007 | .004 | .002 |   |
| 10.0 | .056   | .033 | .018 | .048 | .029 | .015 | .033 | .020 | .011 | .019 | .012 | .007 | .006 | .004 | .002 |   |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

|   |                  |      |      |      |                  |                |      |                        |      |      |
|---|------------------|------|------|------|------------------|----------------|------|------------------------|------|------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |      |      |      |                  |                |      |                        |      |      |
| NAME: 2418.102-ACOT-70  |                  |      |      |      | TYPE:            |                |      | WEIGHT:                |      |      |
| SPEC.: 3000K  |                  |      |      |      | DIM.:            |                |      | SERIAL No.: 2408070993 |      |      |
| MFR.: RISE  |                  |      |      |      | SUR.: 0.001024m2 |                |      | 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   | 17.9             | 18.8 | 18.1 | 18.9 | 19.1             | 18.1           | 18.9 | 18.3                   | 19.1 | 19.3 |
| 3H  | 17.7             | 18.5 | 18.0 | 18.7 | 18.9             | 17.9           | 18.7 | 18.2                   | 18.9 | 19.1 |
| 4H  | 17.7             | 18.4 | 17.9 | 18.6 | 18.8             | 17.9           | 18.6 | 18.1                   | 18.8 | 19.0 |
| 6H  | 17.6             | 18.3 | 17.9 | 18.5 | 18.7             | 17.8           | 18.5 | 18.1                   | 18.7 | 18.9 |
| 8H  | 17.5             | 18.2 | 17.8 | 18.4 | 18.7             | 17.7           | 18.4 | 18.0                   | 18.6 | 18.9 |
| 12H   | 17.5             | 18.1 | 17.8 | 18.4 | 18.7             | 17.7           | 18.3 | 18.0                   | 18.6 | 18.9 |
| 4H 2H   | 17.7             | 18.4 | 17.9 | 18.6 | 18.8             | 17.9           | 18.6 | 18.1                   | 18.8 | 19.0 |
| 3H  | 17.5             | 18.1 | 17.8 | 18.4 | 18.7             | 17.7           | 18.3 | 18.0                   | 18.6 | 18.9 |
| 4H  | 17.4             | 18.0 | 17.7 | 18.3 | 18.6             | 17.6           | 18.2 | 17.9                   | 18.5 | 18.8 |
| 6H  | 17.3             | 17.8 | 17.7 | 18.1 | 18.5             | 17.5           | 18.0 | 17.9                   | 18.3 | 18.7 |
| 8H  | 17.2             | 17.7 | 17.6 | 18.1 | 18.4             | 17.4           | 17.9 | 17.8                   | 18.3 | 18.6 |
| 12H   | 17.2             | 17.6 | 17.6 | 18.0 | 18.4             | 17.4           | 17.8 | 17.8                   | 18.2 | 18.6 |
| 8H 4H   | 17.2             | 17.7 | 17.6 | 18.1 | 18.4             | 17.4           | 17.9 | 17.8                   | 18.3 | 18.6 |
| 6H  | 17.1             | 17.5 | 17.6 | 17.9 | 18.3             | 17.3           | 17.7 | 17.8                   | 18.1 | 18.5 |
| 8H  | 17.1             | 17.4 | 17.5 | 17.8 | 18.3             | 17.3           | 17.6 | 17.7                   | 18.0 | 18.5 |
| 12H   | 17.0             | 17.3 | 17.5 | 17.8 | 18.2             | 17.2           | 17.5 | 17.7                   | 17.9 | 18.4 |
| 12H 4H  | 17.2             | 17.6 | 17.6 | 18.0 | 18.4             | 17.4           | 17.8 | 17.8                   | 18.2 | 18.6 |
| 6H  | 17.1             | 17.4 | 17.5 | 17.8 | 18.3             | 17.3           | 17.6 | 17.7                   | 18.0 | 18.5 |
| 8H  | 17.0             | 17.3 | 17.5 | 17.8 | 18.2             | 17.2           | 17.5 | 17.7                   | 17.9 | 18.4 |
| Variations with the observer position at spacings(CIE Pub.117):                     |                  |      |      |      |                  |                |      |                        |      |      |
| S = 1.0H  | + 4.8 / -26.8    |      |      |      |                  | + 4.7 / -26.0  |      |                        |      |      |
| 1.5H  | + 7.6 / -24.4    |      |      |      |                  | + 7.5 / -24.1  |      |                        |      |      |
| 2.0H  | + 7.4 / - 8.3    |      |      |      |                  | + 7.1 / - 8.4  |      |                        |      |      |

CIE Pub.117, 1490 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)  
Area: 0.001024 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up



### UTILIZATION FACTORS TABLE

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |

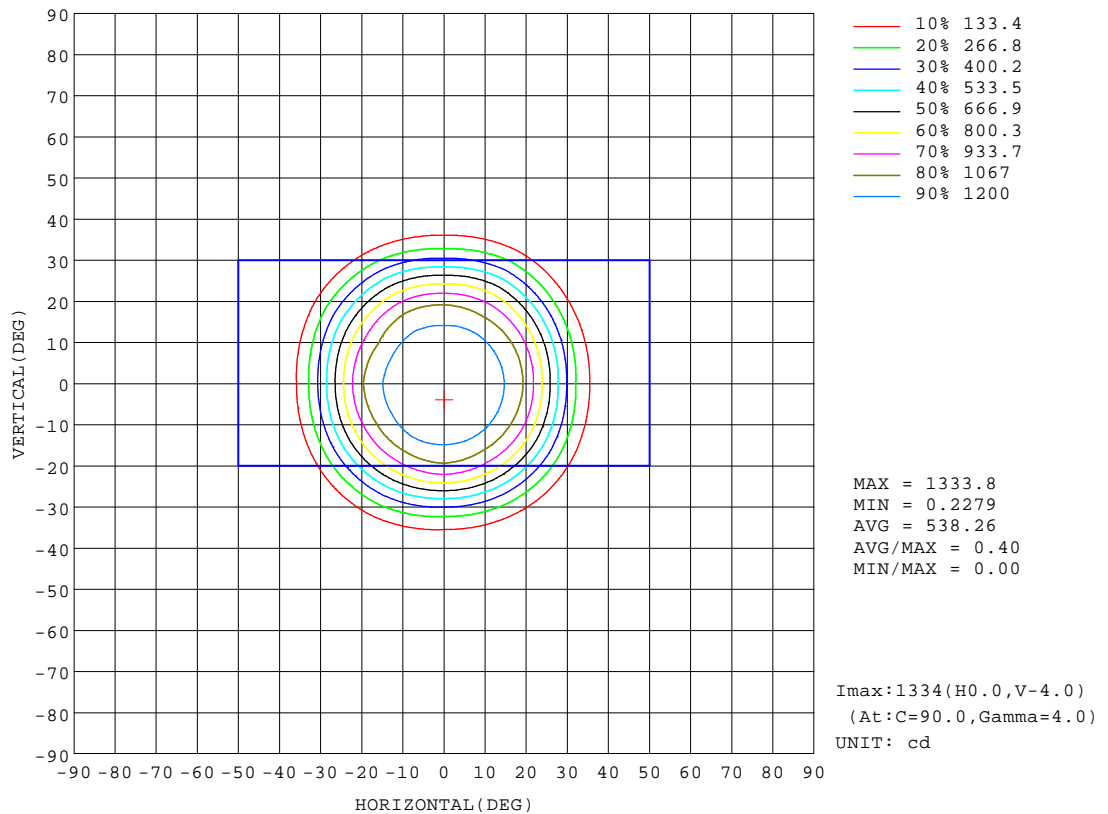
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 56  | 53  | 51        | 56  | 53  | 50  | 55  | 52            | 50  | 48     |
| 0.80                             | 60  | 57  | 55        | 60  | 57  | 55  | 59  | 57            | 55  | 53     |
| 1.00                             | 63  | 60  | 58        | 62  | 59  | 57  | 61  | 59            | 57  | 55     |
| 1.25                             | 65  | 62  | 60        | 64  | 62  | 60  | 63  | 61            | 59  | 57     |
| 1.50                             | 66  | 64  | 62        | 66  | 63  | 62  | 64  | 62            | 61  | 58     |
| 2.00                             | 68  | 65  | 64        | 67  | 65  | 63  | 65  | 64            | 62  | 59     |
| 2.50                             | 69  | 66  | 65        | 68  | 66  | 64  | 66  | 64            | 63  | 60     |
| 3.00                             | 69  | 68  | 66        | 68  | 67  | 65  | 66  | 65            | 64  | 60     |
| 4.00                             | 71  | 69  | 68        | 69  | 68  | 67  | 67  | 66            | 65  | 61     |
| 5.00                             | 71  | 70  | 69        | 70  | 69  | 68  | 68  | 67            | 66  | 62     |
| 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:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |

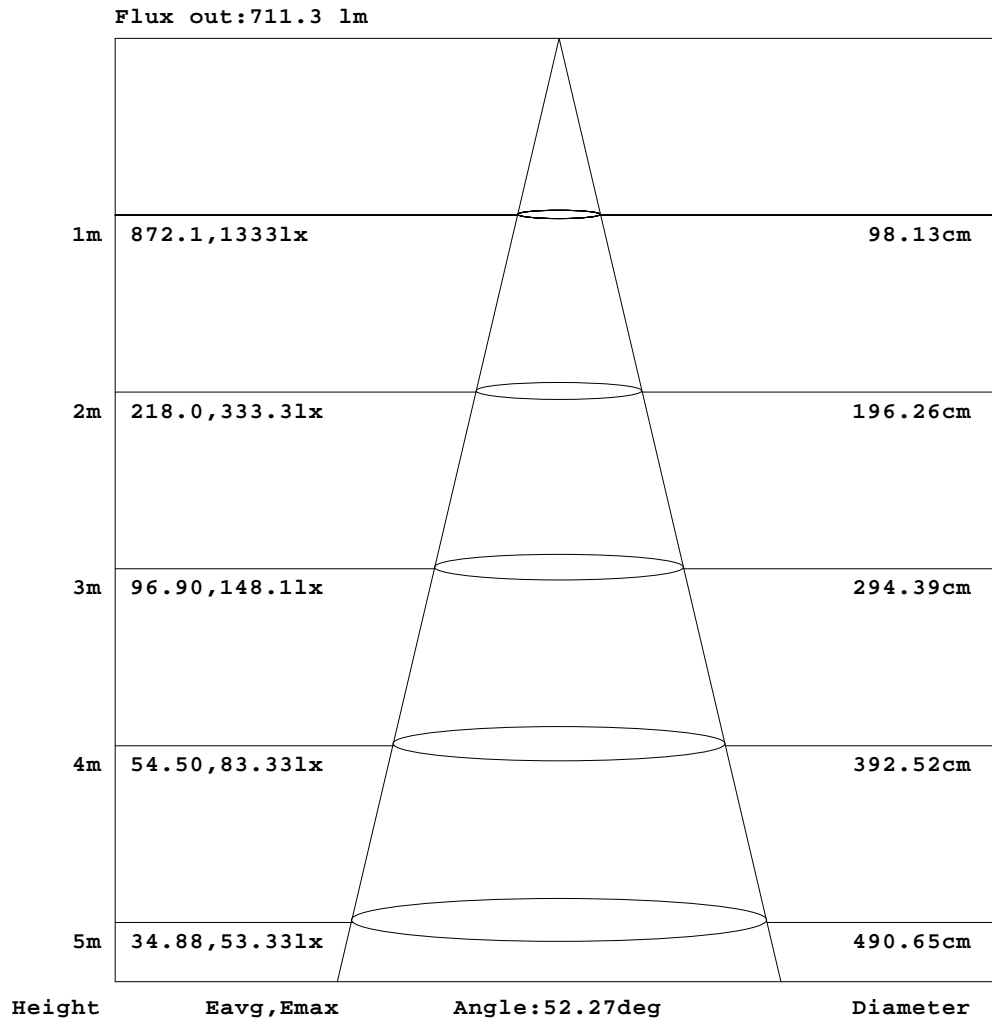


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## AAI Figure

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |



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

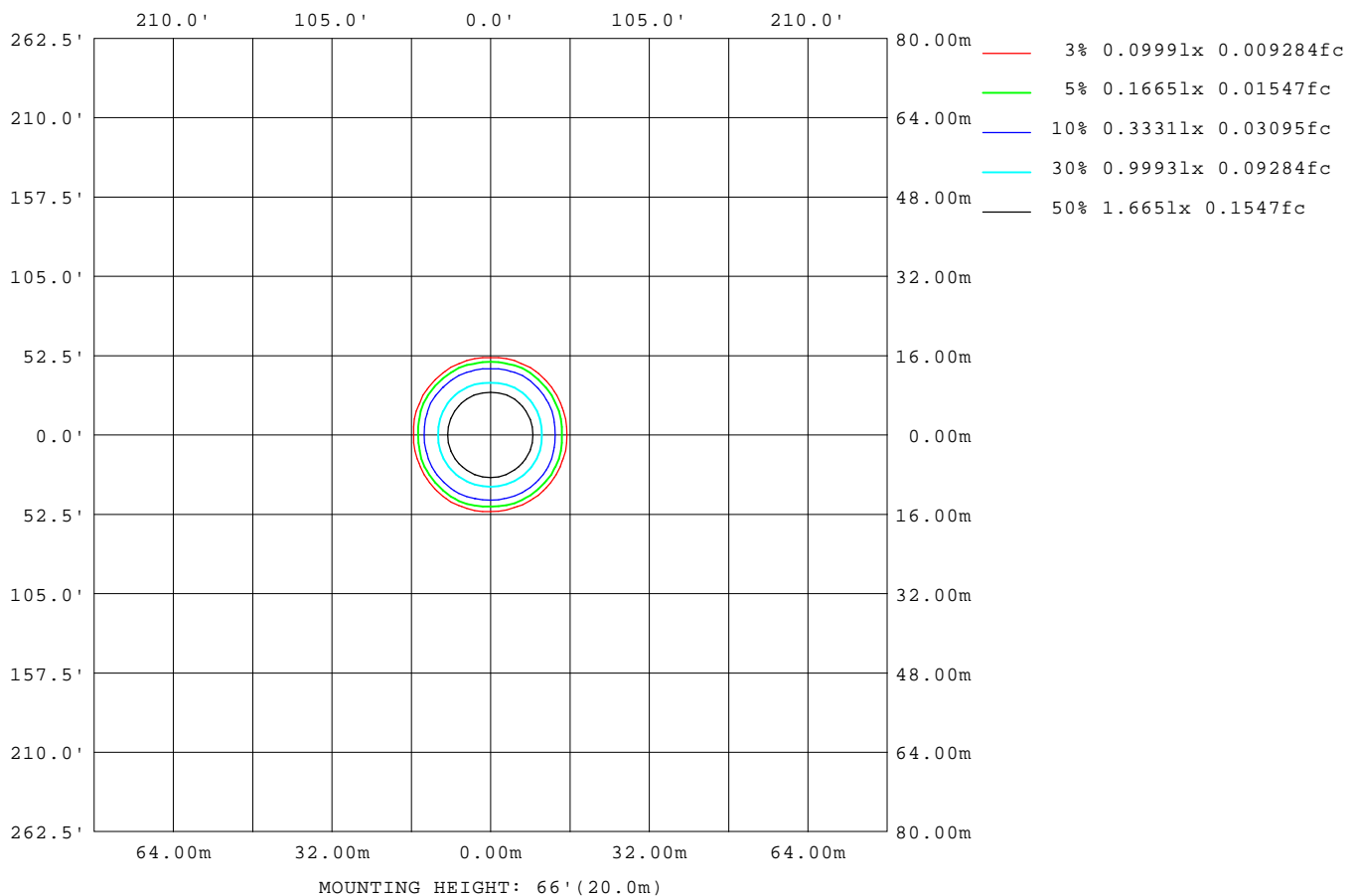
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-8-7

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: BXRE-30G1000-A-83 Ra: 90  
LENS: PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up



## ISOLUX DIAGRAM

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-8-7

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: BXRE-30G1000-A-83 Ra: 90  
LENS: PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

### LED Avg.L Report

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |

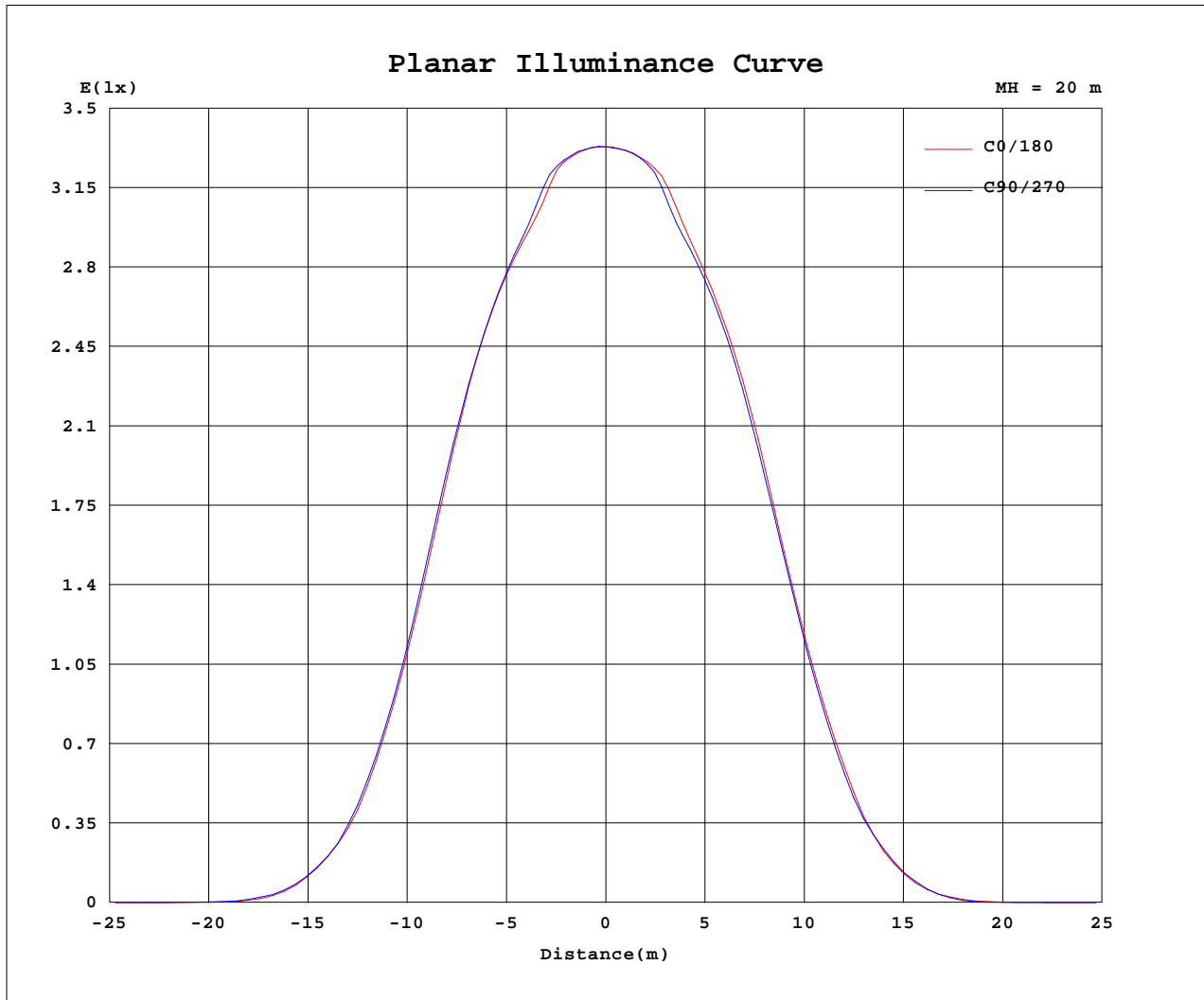
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 238   |
| L_0~180(75)av  | 214   |
| L_0~180(85)av  | 225   |
| L_90~270(65)av | 242   |
| L_90~270(75)av | 231   |
| L_90~270(85)av | 344   |
| L_45(65)av     | 217   |
| L_45(75)av     | 156   |
| L_45(85)av     | 140   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
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: 2024-8-7

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: BXRE-30G1000-A-83 Ra:90  
 LENS: PM-1082C 50R  
 DRIVER: IT FIT 20/200-240/500 CS 350mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                  |                        |
|---|------------------|------------------------|
| Test:U:220.15V I:0.0641A P:13.678W PF:0.9673 Freq:49.99Hz<br>Lamp Flux:1490.38x1 lm |                  |                        |
| NAME: 2418.102-ACOT-70  | TYPE:            | WEIGHT:                |
| SPEC.: 3000K  | DIM.:            | SERIAL No.: 2408070993 |
| MFR.: RISE  | SUR.: 0.001024m2 | Shielding Angle:       |

Table--1

UNIT: cd

| C(DEG)<br>(DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0               | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 | 1332 |  |  |  |  |  |  |
| 5               | 1329 | 1332 | 1332 | 1332 | 1331 | 1330 | 1328 | 1327 | 1327 | 1328 | 1331 | 1328 |  |  |  |  |  |  |
| 10              | 1264 | 1287 | 1302 | 1284 | 1302 | 1303 | 1285 | 1302 | 1271 | 1257 | 1302 | 1273 |  |  |  |  |  |  |
| 15              | 1195 | 1195 | 1198 | 1198 | 1202 | 1192 | 1198 | 1178 | 1192 | 1184 | 1182 | 1189 |  |  |  |  |  |  |
| 20              | 1032 | 1023 | 1015 | 1042 | 1024 | 1026 | 1051 | 1019 | 1046 | 1030 | 1023 | 1030 |  |  |  |  |  |  |
| 25              | 723  | 744  | 743  | 742  | 754  | 765  | 761  | 778  | 783  | 750  | 781  | 752  |  |  |  |  |  |  |
| 30              | 388  | 419  | 418  | 402  | 439  | 450  | 442  | 476  | 472  | 425  | 466  | 429  |  |  |  |  |  |  |
| 35              | 148  | 160  | 159  | 149  | 177  | 179  | 164  | 201  | 193  | 172  | 194  | 161  |  |  |  |  |  |  |
| 40              | 27.9 | 37.5 | 38.4 | 32.0 | 42.0 | 39.7 | 33.0 | 39.7 | 44.3 | 32.4 | 44.7 | 37.9 |  |  |  |  |  |  |
| 45              | 2.23 | 5.69 | 6.09 | 3.35 | 8.05 | 6.31 | 3.01 | 7.06 | 4.00 | 1.86 | 5.90 | 3.66 |  |  |  |  |  |  |
| 50              | 0.73 | 1.05 | 1.10 | 0.84 | 1.43 | 1.36 | 0.84 | 1.15 | 0.88 | 0.58 | 0.98 | 0.84 |  |  |  |  |  |  |
| 55              | 0.27 | 0.33 | 0.34 | 0.29 | 0.41 | 0.41 | 0.29 | 0.35 | 0.30 | 0.26 | 0.30 | 0.28 |  |  |  |  |  |  |
| 60              | 0.14 | 0.15 | 0.15 | 0.16 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.14 |  |  |  |  |  |  |
| 65              | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 |  |  |  |  |  |  |
| 70              | 0.07 | 0.06 | 0.06 | 0.08 | 0.07 | 0.07 | 0.08 | 0.07 | 0.06 | 0.07 | 0.05 | 0.06 |  |  |  |  |  |  |
| 75              | 0.05 | 0.04 | 0.05 | 0.06 | 0.05 | 0.05 | 0.06 | 0.04 | 0.04 | 0.06 | 0.03 | 0.04 |  |  |  |  |  |  |
| 80              | 0.04 | 0.03 | 0.03 | 0.05 | 0.04 | 0.04 | 0.05 | 0.03 | 0.03 | 0.04 | 0.02 | 0.02 |  |  |  |  |  |  |
| 85              | 0.02 | 0.01 | 0.01 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.04 | 0.01 | 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:2024-8-7

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:BXRE-30G1000-A-83 Ra:90  
LENS:PM-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up