

## Luminaire Photograph



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 78.3%   |                          |
| Luminaire Power:    | 20.96 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: 2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

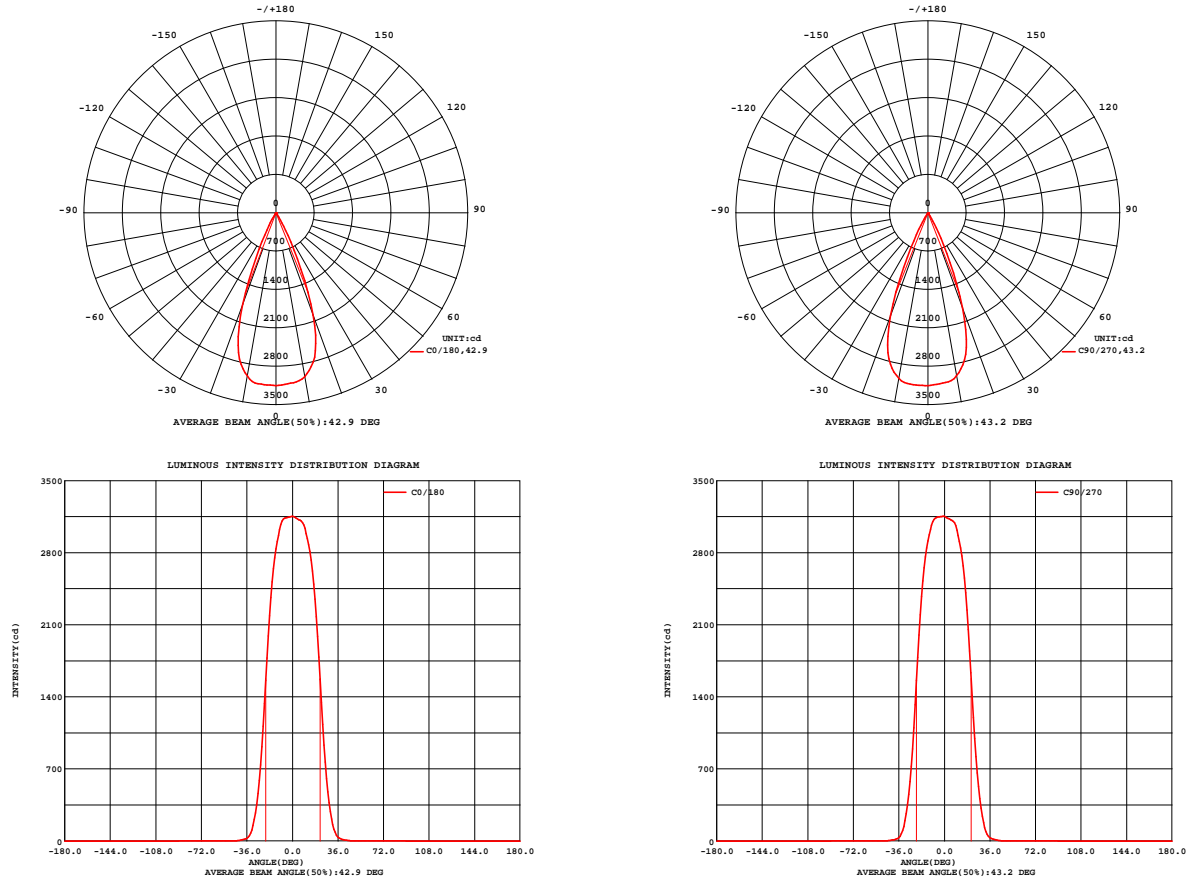


Fig. C0/C180

Fig. C90/C270

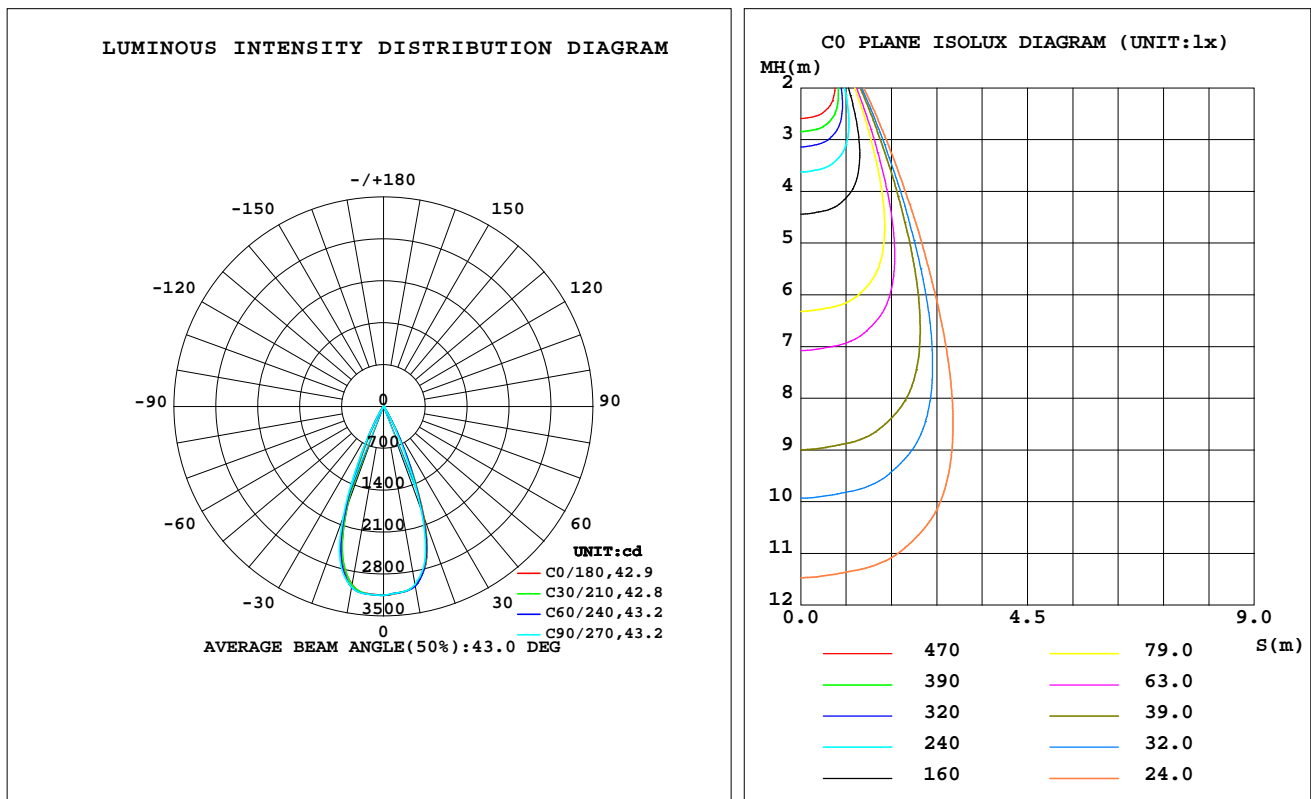
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |

| DATA OF LAMP     |           | PHOTOMETRIC DATA Eff: 70.87 lm/W |        |                 |          |
|------------------|-----------|----------------------------------|--------|-----------------|----------|
| MODEL            | Bridgelux | Imax(cd)                         | 3155   | S/MH(C0/180)    | 0.61     |
| NOMINAL POWER(W) | 20        | LOR(%)                           | 78.3   | S/MH(C90/270)   | 0.64     |
| RATED VOLTAGE(V) | 120       | TOTAL FLUX(lm)                   | 1485.6 | UP,DN(C0-180)   | 0.0,38.8 |
| NOMINAL FLUX(lm) | 1897.7    | CIE CLASS                        | DIRECT | UP,DN(C180-360) | 0.0,39.5 |
| LAMPS INSIDE     | 1         | up(%)                            | 0.0    | CIBSE SHR NOM   | 0.50     |
| TEST VOLTAGE(V)  | 120       | down(%)                          | 78.3   | CIBSE SHR MAX   | 0.60     |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

|     | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   |         | zone    | total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------|-----------|
| 10  | 3034                  | 3043   | 3018   | 3016   | 3022   | 3050   | 3067   | 3058   | 0- 10   | 296.5   | 296.5 | 20,15.6   |
| 20  | 1987                  | 1934   | 1844   | 1721   | 1778   | 1844   | 1999   | 2021   | 10- 20  | 722.6   | 1019  | 68.6,53.7 |
| 30  | 284.1                 | 299.4  | 240.1  | 215.5  | 211.1  | 251.4  | 265.4  | 309.5  | 20- 30  | 411.6   | 1431  | 96.3,75.4 |
| 40  | 14.60                 | 16.89  | 12.87  | 12.87  | 10.39  | 12.75  | 12.31  | 14.34  | 30- 40  | 50.52   | 1481  | 99.7,78.1 |
| 50  | 0.6545                | 1.096  | 0.5473 | 0.6301 | 0.2885 | 0.7992 | 0.6003 | 0.9221 | 40- 50  | 3.754   | 1485  | 100,78.3  |
| 60  | 0.2759                | 0.2630 | 0.1339 | 0.1620 | 0.1500 | 0.1969 | 0.1837 | 0.2531 | 50- 60  | 0.3400  | 1485  | 100,78.3  |
| 70  | 0.0570                | 0.0400 | 0.0412 | 0.0529 | 0.0759 | 0.0458 | 0.0360 | 0.0321 | 60- 70  | 0.1022  | 1485  | 100,78.3  |
| 80  | 0.0484                | 0.0284 | 0.0397 | 0.0269 | 0.0440 | 0.0226 | 0.0307 | 0.0270 | 70- 80  | 0.0374  | 1486  | 100,78.3  |
| 90  | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90  | 0.0286  | 1486  | 100,78.3  |
| 100 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100  | 0       | 1486  | 100,78.3  |
| 110 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110 | 0       | 1486  | 100,78.3  |
| 120 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120 | 0       | 1486  | 100,78.3  |
| 130 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130 | 0       | 1486  | 100,78.3  |
| 140 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 130-140 | 0       | 1486  | 100,78.3  |
| 150 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 140-150 | 0       | 1486  | 100,78.3  |
| 160 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 150-160 | 0       | 1486  | 100,78.3  |
| 170 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 160-170 | 0       | 1486  | 100,78.3  |
| 180 | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 170-180 | 0       | 1486  | 100,78.3  |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT:lm |       |           |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz  
Lamp Flux:1897.7x1 lm

NAME: 2418.121-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2407260949

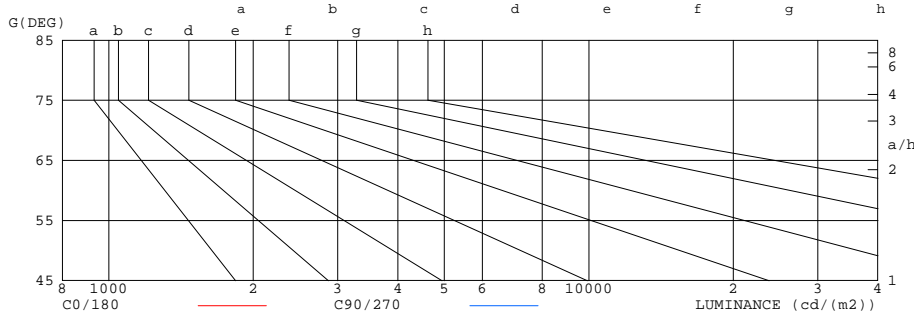
MFR.: RISE

SUR.: 0.0064m2

Shielding Angle:

#### LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) |      |      |       |       |       |       |       |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A     | 2000             | 1000 | 500  | <=300 |       |       |       |       |
| 1.50  | B     |                  | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85  | C     |                  |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.20  | D     |                  |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55  | E     |                  |      |      |       | 2000  | 1000  | 500   | <=300 |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(180)            | C0/180 | C90/270 |
| 85                | 81     | 66      |
| 80                | 44     | 36      |
| 75                | 33     | 23      |
| 70                | 26     | 19      |
| 65                | 41     | 28      |
| 60                | 86     | 42      |
| 55                | 116    | 95      |
| 50                | 159    | 133     |
| 45                | 705    | 614     |

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Temperature:25.3℃  
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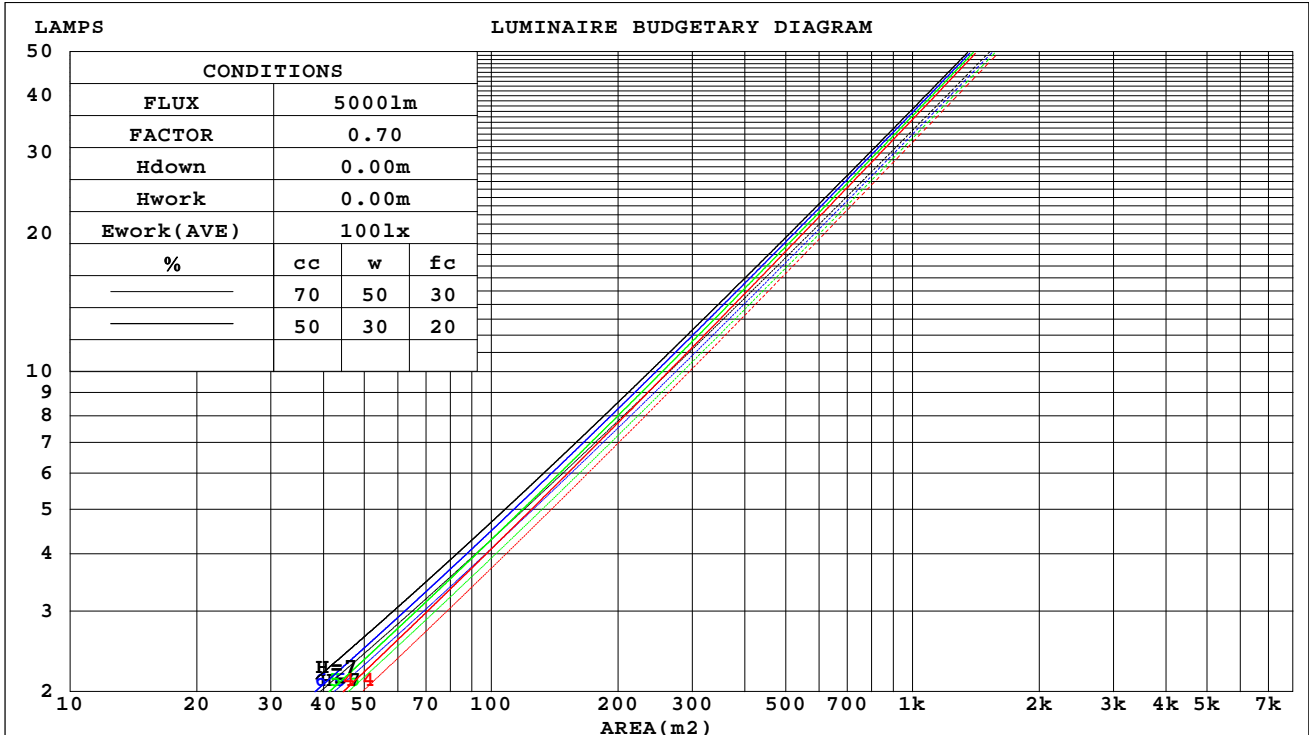
Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
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30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz  
Lamp Flux:1897.7x1 lm

|                       |                |                        |
|-----------------------|----------------|------------------------|
| NAME: 2418.121-LEA-15 | TYPE:          | WEIGHT:                |
| SPEC.: 3000K          | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE            | SUR.: 0.0064m2 | 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℃  
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Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
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### WEC AND CCEC

|  |                |                        |
|--|----------------|------------------------|
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| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | 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  | .115                  | .066 | .021 | .110 | .063 | .020 | .101                            | .058 | .018 | .092 | .053 | .017 | .083 | .048 | .016 |   |  |  |  |
| 2.0  | .108                  | .059 | .018 | .104 | .057 | .018 | .096                            | .053 | .016 | .088 | .049 | .015 | .081 | .046 | .014 |   |  |  |  |
| 3.0  | .101                  | .054 | .016 | .098 | .052 | .016 | .091                            | .049 | .015 | .085 | .046 | .014 | .079 | .044 | .014 |   |  |  |  |
| 4.0  | .096                  | .050 | .015 | .093 | .049 | .014 | .087                            | .046 | .014 | .082 | .044 | .013 | .077 | .042 | .013 |   |  |  |  |
| 5.0  | .091                  | .046 | .013 | .088 | .045 | .013 | .083                            | .043 | .013 | .079 | .042 | .012 | .074 | .040 | .012 |   |  |  |  |
| 6.0  | .087                  | .043 | .012 | .084 | .043 | .012 | .080                            | .041 | .012 | .076 | .039 | .012 | .072 | .038 | .011 |   |  |  |  |
| 7.0  | .083                  | .041 | .012 | .081 | .040 | .011 | .077                            | .039 | .011 | .073 | .038 | .011 | .070 | .036 | .011 |   |  |  |  |
| 8.0  | .079                  | .039 | .011 | .078 | .038 | .011 | .074                            | .037 | .011 | .071 | .036 | .010 | .068 | .035 | .010 |   |  |  |  |
| 9.0  | .076                  | .037 | .010 | .075 | .036 | .010 | .072                            | .035 | .010 | .069 | .035 | .010 | .066 | .034 | .010 |   |  |  |  |
| 10.0 | .073                  | .035 | .010 | .072 | .035 | .010 | .069                            | .034 | .010 | .067 | .033 | .009 | .064 | .032 | .009 |   |  |  |  |

| 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  | .149                  | .149 | .149 | .127                                       | .127 | .127 | .087 | .087 | .087 | .050 | .050 | .050 | .016 | .016 | .016 |   |
| 1.0  | .132                  | .123 | .115 | .113                                       | .106 | .099 | .077 | .073 | .069 | .045 | .042 | .040 | .014 | .014 | .013 |   |
| 2.0  | .119                  | .104 | .091 | .102                                       | .089 | .079 | .070 | .062 | .055 | .040 | .036 | .032 | .013 | .012 | .011 |   |
| 3.0  | .108                  | .089 | .074 | .092                                       | .077 | .064 | .063 | .053 | .045 | .037 | .031 | .026 | .012 | .010 | .009 |   |
| 4.0  | .098                  | .077 | .060 | .084                                       | .066 | .053 | .058 | .046 | .037 | .034 | .027 | .022 | .011 | .009 | .007 |   |
| 5.0  | .091                  | .067 | .050 | .078                                       | .058 | .044 | .054 | .041 | .031 | .031 | .024 | .018 | .010 | .008 | .006 |   |
| 6.0  | .084                  | .060 | .042 | .072                                       | .052 | .037 | .050 | .036 | .026 | .029 | .021 | .015 | .009 | .007 | .005 |   |
| 7.0  | .078                  | .053 | .036 | .067                                       | .046 | .031 | .047 | .032 | .022 | .027 | .019 | .013 | .009 | .006 | .004 |   |
| 8.0  | .074                  | .048 | .031 | .063                                       | .042 | .027 | .044 | .029 | .019 | .026 | .017 | .011 | .008 | .006 | .004 |   |
| 9.0  | .070                  | .044 | .027 | .060                                       | .038 | .023 | .042 | .027 | .017 | .024 | .016 | .010 | .008 | .005 | .003 |   |
| 10.0 | .066                  | .040 | .023 | .057                                       | .035 | .021 | .039 | .025 | .015 | .023 | .015 | .009 | .007 | .005 | .003 |   |

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C Interval: 30.0DEG  
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Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

|  |                  |     |     |     |                |                |     |                        |     |     |
|--|------------------|-----|-----|-----|----------------|----------------|-----|------------------------|-----|-----|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                  |     |     |     |                |                |     |                        |     |     |
| NAME: 2418.121-LEA-15  |                  |     |     |     | TYPE:          |                |     | WEIGHT:                |     |     |
| SPEC.: 3000K   |                  |     |     |     | DIM.:          |                |     | SERIAL No.: 2407260949 |     |     |
| MFR.: RISE   |                  |     |     |     | SUR.: 0.0064m2 |                |     | 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  | 4.8              | 5.5 | 5.0 | 5.6 | 5.8            | 3.7            | 4.4 | 3.9                    | 4.5 | 4.7 |
| 3H   | 4.6              | 5.3 | 4.8 | 5.5 | 5.7            | 3.5            | 4.2 | 3.7                    | 4.4 | 4.6 |
| 4H   | 4.5              | 5.2 | 4.8 | 5.4 | 5.6            | 3.4            | 4.1 | 3.7                    | 4.3 | 4.5 |
| 6H   | 4.4              | 5.0 | 4.7 | 5.3 | 5.5            | 3.3            | 3.9 | 3.6                    | 4.2 | 4.4 |
| 8H   | 4.4              | 5.0 | 4.7 | 5.2 | 5.5            | 3.3            | 3.9 | 3.6                    | 4.1 | 4.4 |
| 12H  | 4.4              | 4.9 | 4.7 | 5.2 | 5.4            | 3.2            | 3.8 | 3.6                    | 4.1 | 4.3 |
| 4H 2H  | 4.5              | 5.2 | 4.8 | 5.4 | 5.6            | 3.4            | 4.1 | 3.7                    | 4.3 | 4.5 |
| 3H   | 4.3              | 4.9 | 4.7 | 5.2 | 5.4            | 3.2            | 3.8 | 3.6                    | 4.1 | 4.3 |
| 4H   | 4.3              | 4.8 | 4.6 | 5.1 | 5.4            | 3.1            | 3.7 | 3.5                    | 3.9 | 4.3 |
| 6H   | 4.2              | 4.6 | 4.5 | 4.9 | 5.3            | 3.0            | 3.5 | 3.4                    | 3.8 | 4.2 |
| 8H   | 4.1              | 4.5 | 4.5 | 4.9 | 5.2            | 3.0            | 3.4 | 3.4                    | 3.8 | 4.1 |
| 12H  | 4.0              | 4.4 | 4.5 | 4.8 | 5.2            | 2.9            | 3.3 | 3.3                    | 3.7 | 4.1 |
| 8H 4H  | 4.1              | 4.5 | 4.5 | 4.9 | 5.2            | 3.0            | 3.4 | 3.4                    | 3.8 | 4.1 |
| 6H   | 4.0              | 4.3 | 4.4 | 4.7 | 5.1            | 2.9            | 3.2 | 3.3                    | 3.6 | 4.0 |
| 8H   | 3.9              | 4.2 | 4.4 | 4.7 | 5.1            | 2.8            | 3.1 | 3.3                    | 3.5 | 4.0 |
| 12H  | 3.9              | 4.1 | 4.3 | 4.6 | 5.0            | 2.8            | 3.0 | 3.2                    | 3.5 | 3.9 |
| 12H 4H   | 4.0              | 4.4 | 4.5 | 4.8 | 5.2            | 2.9            | 3.3 | 3.3                    | 3.7 | 4.1 |
| 6H   | 3.9              | 4.2 | 4.4 | 4.7 | 5.1            | 2.8            | 3.1 | 3.3                    | 3.5 | 4.0 |
| 8H   | 3.9              | 4.1 | 4.3 | 4.6 | 5.0            | 2.8            | 3.0 | 3.2                    | 3.5 | 3.9 |
| Variations with the observer position at spacings(CIE Pub.117):                    |                  |     |     |     |                |                |     |                        |     |     |
| S = 1.0H   | + 3.6 / -17.5    |     |     |     |                | + 3.5 / -18.3  |     |                        |     |     |
| 1.5H   | + 6.3 / -16.4    |     |     |     |                | + 6.2 / -16.2  |     |                        |     |     |
| 2.0H   | + 6.8 / - 7.0    |     |     |     |                | + 6.8 / - 9.2  |     |                        |     |     |

CIE Pub.117, 1898 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)  
Area: 0.0064 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up



### UTILIZATION FACTORS TABLE

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |

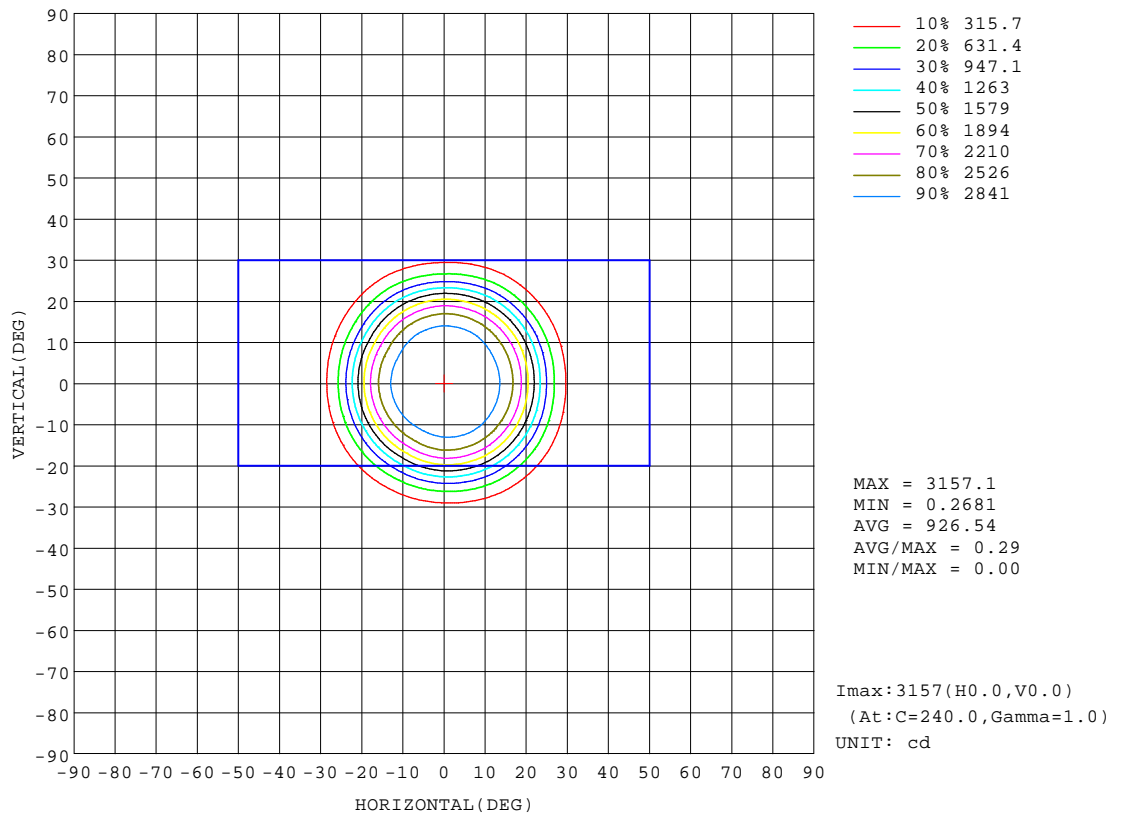
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 72  | 67  | 65        | 71  | 67  | 64  | 71  | 67            | 64  | 62     |
| 0.80                             | 77  | 73  | 70        | 76  | 73  | 70  | 76  | 72            | 70  | 67     |
| 1.00                             | 80  | 76  | 73        | 79  | 76  | 73  | 78  | 75            | 73  | 70     |
| 1.25                             | 83  | 79  | 77        | 82  | 79  | 76  | 80  | 78            | 76  | 73     |
| 1.50                             | 84  | 81  | 79        | 84  | 81  | 79  | 82  | 79            | 78  | 74     |
| 2.00                             | 86  | 83  | 81        | 85  | 82  | 80  | 83  | 81            | 79  | 75     |
| 2.50                             | 87  | 85  | 82        | 86  | 84  | 82  | 84  | 82            | 80  | 76     |
| 3.00                             | 88  | 86  | 84        | 87  | 85  | 83  | 84  | 83            | 81  | 77     |
| 4.00                             | 90  | 88  | 86        | 88  | 87  | 85  | 85  | 84            | 83  | 78     |
| 5.00                             | 91  | 89  | 88        | 89  | 88  | 87  | 86  | 85            | 84  | 78     |
| 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:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |

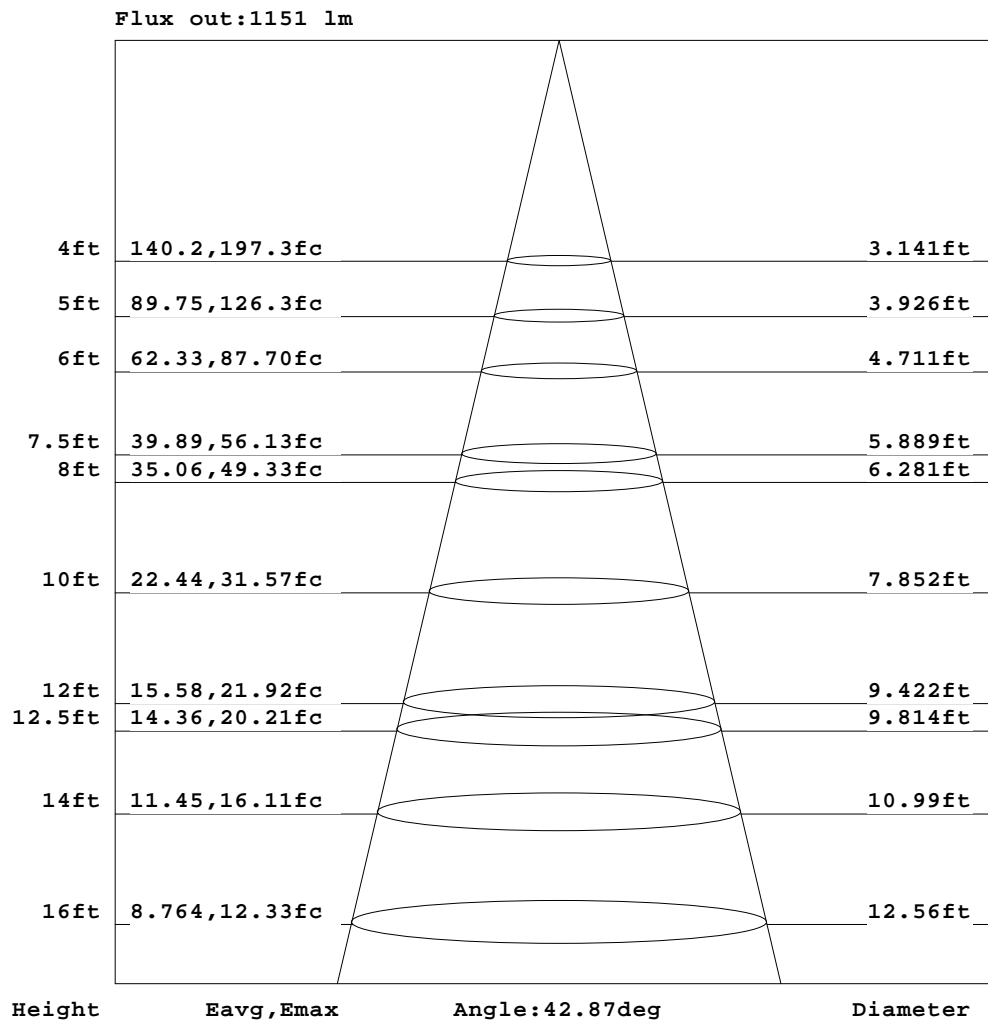


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## AAI Figure

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |



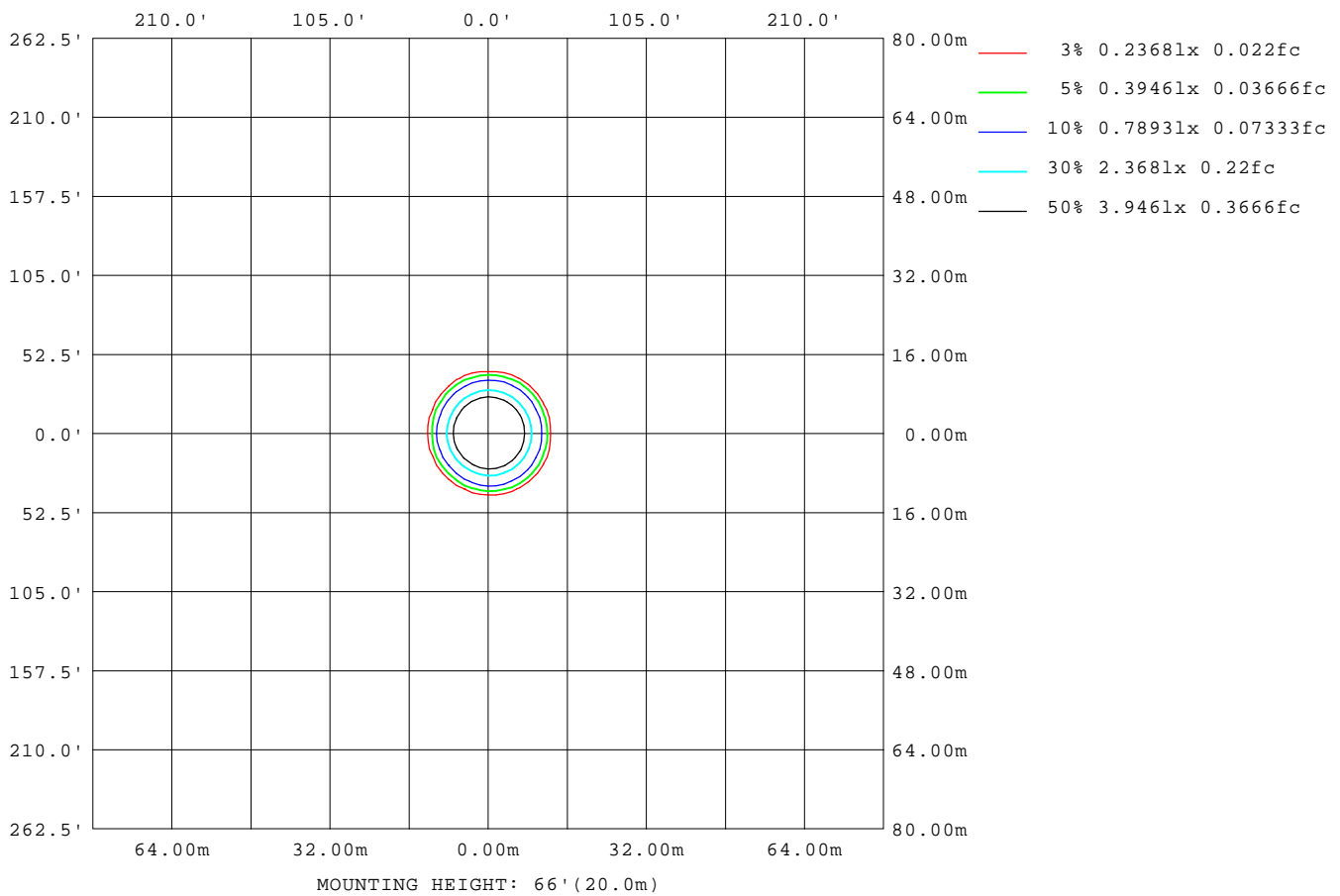
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: zoe  
Test Date: 2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## ISOLUX DIAGRAM

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:zoe  
Test Date:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

### LED Avg.L Report

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |

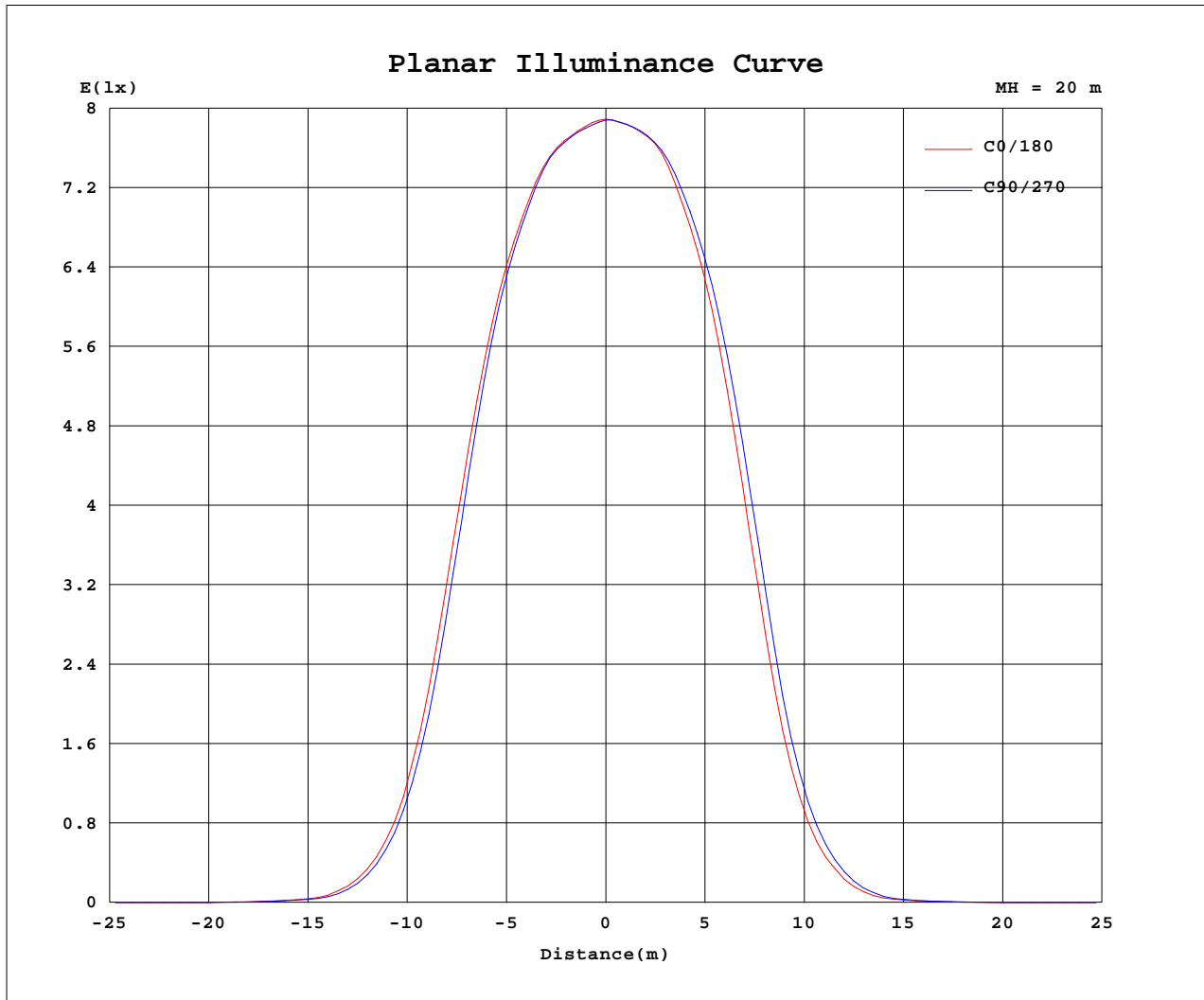
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 44    |
| L_0~180(75)av  | 29    |
| L_0~180(85)av  | 77    |
| L_90~270(65)av | 22    |
| L_90~270(75)av | 22    |
| L_90~270(85)av | 57    |
| L_45(65)av     | 34    |
| L_45(75)av     | 18    |
| L_45(85)av     | 33    |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 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: 2024-7-26

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-1083B 36R  
 DRIVER: PUP20A-1WMC 500mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                |                        |
|--|----------------|------------------------|
| Test:U:120.07V I:0.1755A P:20.961W PF:0.9936 Freq:59.98Hz<br>Lamp Flux:1897.7x1 lm |                |                        |
| NAME: 2418.121-LEA-15  | TYPE:          | WEIGHT:                |
| SPEC.: 3000K   | DIM.:          | SERIAL No.: 2407260949 |
| MFR.: RISE   | SUR.: 0.0064m2 | Shielding Angle:       |

Table--1

UNIT: cd

| C(DEG)<br>(DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0               | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 | 3154 |  |  |  |  |  |  |
| 5               | 3121 | 3120 | 3122 | 3121 | 3119 | 3127 | 3138 | 3139 | 3143 | 3146 | 3138 | 3127 |  |  |  |  |  |  |
| 10              | 3034 | 3038 | 3047 | 3018 | 3010 | 3022 | 3022 | 3029 | 3072 | 3067 | 3069 | 3047 |  |  |  |  |  |  |
| 15              | 2727 | 2711 | 2704 | 2672 | 2600 | 2615 | 2644 | 2631 | 2713 | 2759 | 2762 | 2736 |  |  |  |  |  |  |
| 20              | 1987 | 1950 | 1918 | 1844 | 1712 | 1730 | 1778 | 1782 | 1906 | 1999 | 2022 | 2020 |  |  |  |  |  |  |
| 25              | 932  | 950  | 912  | 818  | 742  | 734  | 738  | 787  | 879  | 893  | 989  | 978  |  |  |  |  |  |  |
| 30              | 284  | 308  | 290  | 240  | 215  | 216  | 211  | 230  | 273  | 265  | 312  | 307  |  |  |  |  |  |  |
| 35              | 54.8 | 79.0 | 71.8 | 43.7 | 53.7 | 51.9 | 34.6 | 58.6 | 64.8 | 44.5 | 76.3 | 74.6 |  |  |  |  |  |  |
| 40              | 14.6 | 18.4 | 15.4 | 12.9 | 13.0 | 12.7 | 10.4 | 12.7 | 12.8 | 12.3 | 14.1 | 14.5 |  |  |  |  |  |  |
| 45              | 3.19 | 5.63 | 4.65 | 2.78 | 4.27 | 4.07 | 1.83 | 4.12 | 4.26 | 2.86 | 4.48 | 4.48 |  |  |  |  |  |  |
| 50              | 0.65 | 1.25 | 0.94 | 0.55 | 0.61 | 0.65 | 0.29 | 0.77 | 0.83 | 0.60 | 0.89 | 0.96 |  |  |  |  |  |  |
| 55              | 0.43 | 0.45 | 0.49 | 0.35 | 0.25 | 0.24 | 0.24 | 0.30 | 0.41 | 0.40 | 0.36 | 0.40 |  |  |  |  |  |  |
| 60              | 0.28 | 0.30 | 0.22 | 0.13 | 0.14 | 0.18 | 0.15 | 0.21 | 0.19 | 0.18 | 0.21 | 0.29 |  |  |  |  |  |  |
| 65              | 0.11 | 0.12 | 0.05 | 0.08 | 0.10 | 0.14 | 0.13 | 0.09 | 0.05 | 0.05 | 0.05 | 0.13 |  |  |  |  |  |  |
| 70              | 0.06 | 0.04 | 0.04 | 0.04 | 0.04 | 0.07 | 0.08 | 0.06 | 0.03 | 0.04 | 0.03 | 0.04 |  |  |  |  |  |  |
| 75              | 0.05 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 |  |  |  |  |  |  |
| 80              | 0.05 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.04 | 0.02 | 0.02 | 0.03 | 0.03 | 0.02 |  |  |  |  |  |  |
| 85              | 0.05 | 0.03 | 0.02 | 0.04 | 0.02 | 0.03 | 0.04 | 0.02 | 0.01 | 0.03 | 0.01 | 0.02 |  |  |  |  |  |  |
| 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:2024-7-26

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-1083B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up