

### Luminaire Photograph



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 19.1%   |                          |
| Luminaire Power:    | 13.41 W |                          |
| SHR Nominal:        | 0.00    | Calculated using the TM5 |
| SHR Maximum:        | 0.10    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-6-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-30H1000-A-83 Ra: 97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

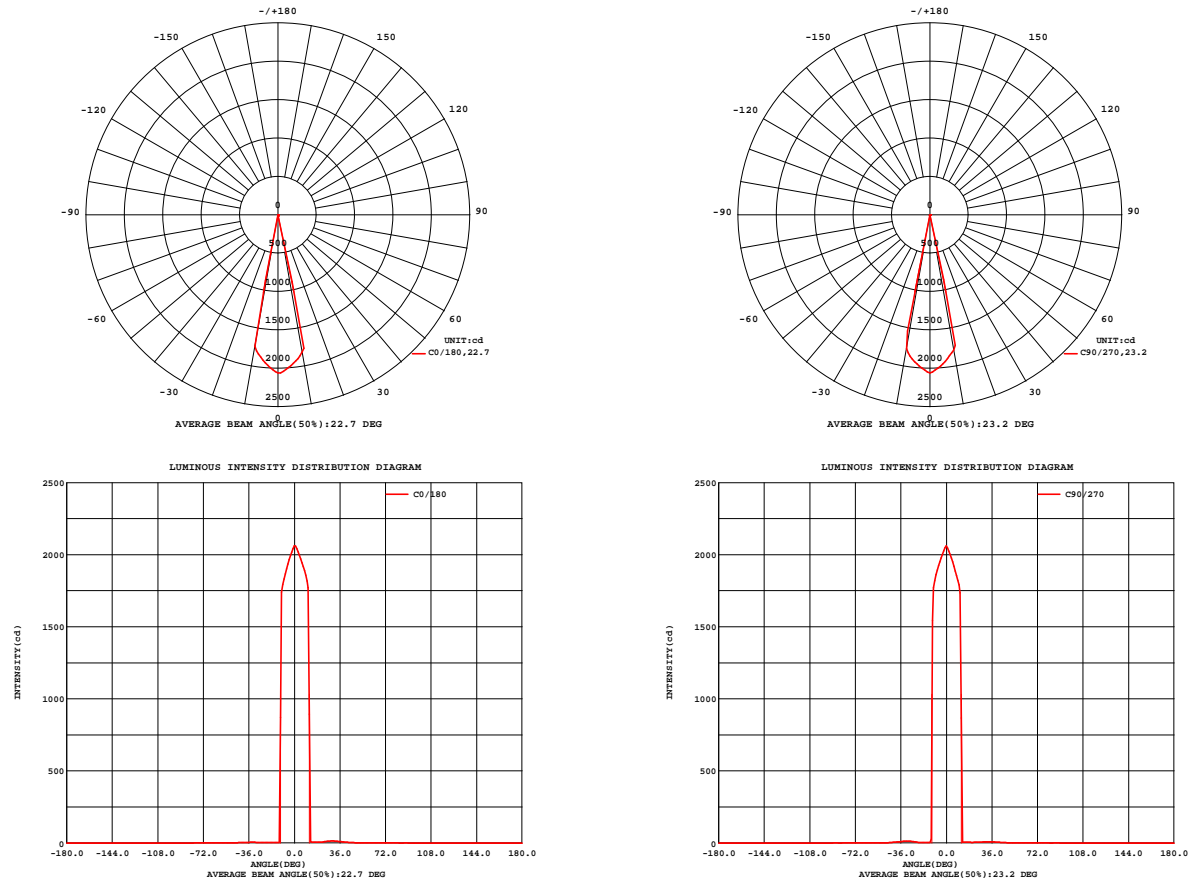


Fig. C0/C180

Fig. C90/C270

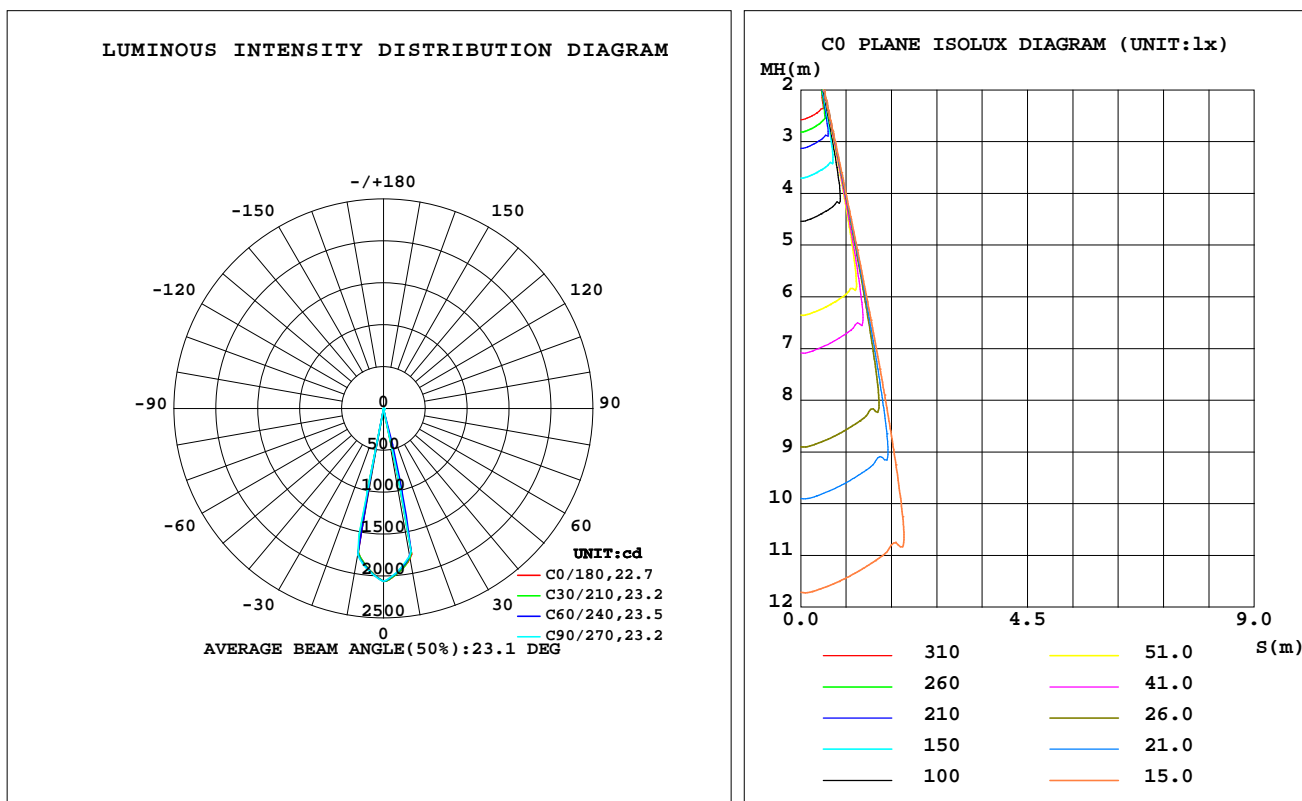
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra: 97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |

| DATA OF LAMP     |           | PHOTOMETRIC DATA Eff: 19.12 lm/W |        |                        |          |
|------------------|-----------|----------------------------------|--------|------------------------|----------|
| MODEL            | Brideglux | Imax(cd)                         | 2062   | S/MH(C0/180)           | 0.29     |
| NOMINAL POWER(W) | 13        | LOR(%)                           | 19.1   | S/MH(C90/270)          | 0.29     |
| RATED VOLTAGE(V) | 120       | TOTAL FLUX(lm)                   | 256.38 | $\eta$ UP,DN(C0-180)   | 0.0,10.3 |
| NOMINAL FLUX(lm) | 1339.9    | CIE CLASS                        | DIRECT | $\eta$ UP,DN(C180-360) | 0.0,8.8  |
| LAMPS INSIDE     | 1         | $\eta$ up(%)                     | 0.0    | CIBSE SHR NOM          | 0.00     |
| TEST VOLTAGE(V)  | 120       | $\eta$ down(%)                   | 19.1   | CIBSE SHR MAX          | 0.10     |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
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       | 1818                  | 1797   | 1791   | 1758   | 1740   | 1751   | 1771   | 1806   | 0- 10    | 181.0       | 181.0        | 70.6,13.5 |
| 20       | 4.849                 | 4.518  | 4.437  | 4.386  | 2.351  | 2.474  | 2.799  | 2.893  | 10- 20   | 64.23       | 245.3        | 95.7,18.3 |
| 30       | 13.82                 | 11.63  | 7.407  | 5.004  | 4.332  | 7.100  | 12.95  | 15.97  | 20- 30   | 3.164       | 248.4        | 96.9,18.5 |
| 40       | 6.506                 | 6.277  | 5.891  | 3.951  | 3.350  | 5.071  | 6.040  | 8.092  | 30- 40   | 5.302       | 253.7        | 99,18.9   |
| 50       | 1.016                 | 0.8207 | 1.063  | 0.7769 | 0.7900 | 0.8291 | 0.7004 | 1.025  | 40- 50   | 2.292       | 256.0        | 99.9,19.1 |
| 60       | 0.1299                | 0.1319 | 0.1382 | 0.1421 | 0.1164 | 0.1132 | 0.1196 | 0.1165 | 50- 60   | 0.3136      | 256.3        | 100,19.1  |
| 70       | 0.0025                | 0.0014 | 0.0037 | 0.0071 | 0.0050 | 0.0020 | 0.0031 | 0.0002 | 60- 70   | 0.0391      | 256.4        | 100,19.1  |
| 80       | 0.0003                | 0      | 0.0003 | 0.0000 | 0      | 0      | 0.0012 | 0      | 70- 80   | 0.0016      | 256.4        | 100,19.1  |
| 90       | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 90   | 0.0006      | 256.4        | 100,19.1  |
| 100      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 90-100   | 0           | 256.4        | 100,19.1  |
| 110      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 100-110  | 0           | 256.4        | 100,19.1  |
| 120      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 110-120  | 0           | 256.4        | 100,19.1  |
| 130      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 120-130  | 0           | 256.4        | 100,19.1  |
| 140      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 130-140  | 0           | 256.4        | 100,19.1  |
| 150      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 140-150  | 0           | 256.4        | 100,19.1  |
| 160      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 150-160  | 0           | 256.4        | 100,19.1  |
| 170      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 160-170  | 0           | 256.4        | 100,19.1  |
| 180      | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 170-180  | 0           | 256.4        | 100,19.1  |
| DEG      | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |          | UNIT:lm     |              |           |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz  
Lamp Flux:1339.9x1 lm

NAME: 2319.201F-H3AM-350

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2306100757

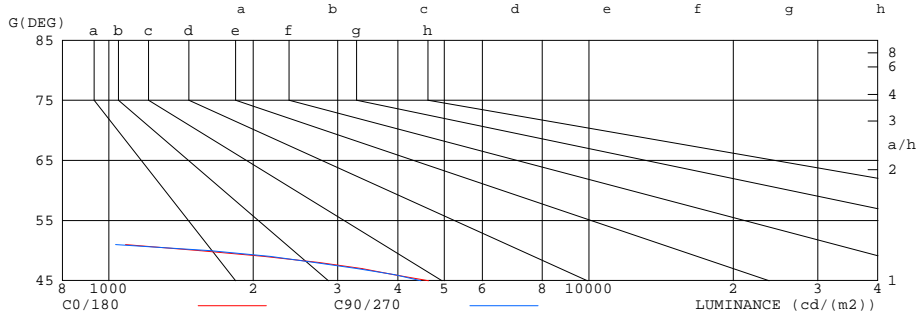
MFR.: RISE

SUR.: 0.00101736m2

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                | 0      | 0       |
| 80                | 2      | 2       |
| 75                | 2      | 18      |
| 70                | 7      | 11      |
| 65                | 67     | 81      |
| 60                | 255    | 272     |
| 55                | 544    | 549     |
| 50                | 1550   | 1628    |
| 45                | 4636   | 4472    |

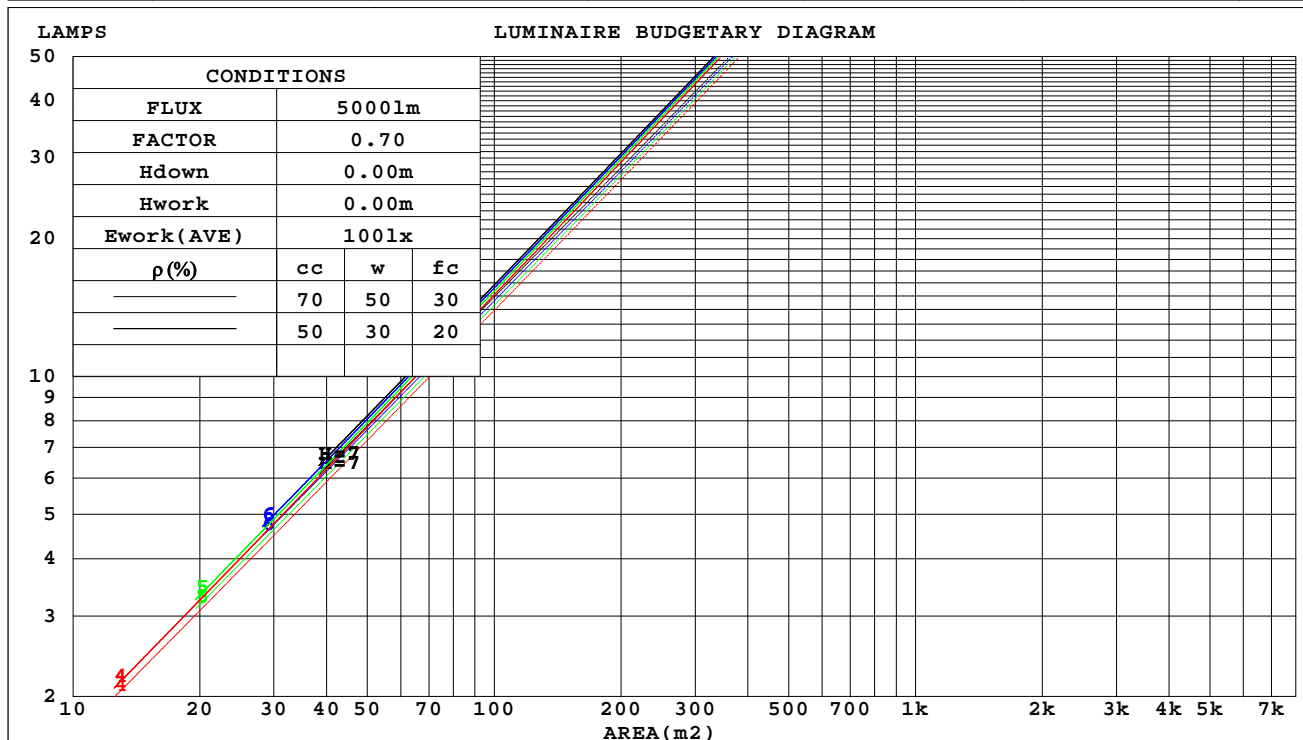
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | 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 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
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γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
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30minutes warm-up

### WEC AND CCEC

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | 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  | .021                  | .012 | .004 | .020 | .011 | .004 | .018                            | .010 | .003 | .015 | .009 | .003 | .013 | .008 | .003 |   |
| 2.0  | .019                  | .010 | .003 | .018 | .010 | .003 | .016                            | .009 | .003 | .014 | .008 | .003 | .013 | .007 | .002 |   |
| 3.0  | .017                  | .009 | .003 | .017 | .009 | .003 | .015                            | .008 | .002 | .014 | .007 | .002 | .012 | .007 | .002 |   |
| 4.0  | .016                  | .008 | .002 | .015 | .008 | .002 | .014                            | .007 | .002 | .013 | .007 | .002 | .012 | .006 | .002 |   |
| 5.0  | .015                  | .008 | .002 | .014 | .007 | .002 | .013                            | .007 | .002 | .012 | .006 | .002 | .011 | .006 | .002 |   |
| 6.0  | .014                  | .007 | .002 | .013 | .007 | .002 | .012                            | .006 | .002 | .012 | .006 | .002 | .011 | .006 | .002 |   |
| 7.0  | .013                  | .006 | .002 | .012 | .006 | .002 | .012                            | .006 | .002 | .011 | .006 | .002 | .010 | .005 | .002 |   |
| 8.0  | .012                  | .006 | .002 | .012 | .006 | .002 | .011                            | .006 | .002 | .010 | .005 | .002 | .010 | .005 | .001 |   |
| 9.0  | .011                  | .006 | .002 | .011 | .005 | .002 | .011                            | .005 | .001 | .010 | .005 | .001 | .009 | .005 | .001 |   |
| 10.0 | .011                  | .005 | .001 | .011 | .005 | .001 | .010                            | .005 | .001 | .010 | .005 | .001 | .009 | .005 | .001 |   |

| 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  | .036                  | .036 | .036 | .031 | .031 | .031 | .021                                       | .021 | .021 | .012 | .012 | .012 | .004 | .004 | .004 |   |  |
| 1.0  | .032                  | .030 | .029 | .027 | .026 | .025 | .019                                       | .018 | .017 | .011 | .010 | .010 | .003 | .003 | .003 |   |  |
| 2.0  | .028                  | .025 | .023 | .024 | .022 | .020 | .016                                       | .015 | .014 | .009 | .009 | .008 | .003 | .003 | .003 |   |  |
| 3.0  | .025                  | .022 | .019 | .021 | .019 | .017 | .015                                       | .013 | .012 | .008 | .008 | .007 | .003 | .002 | .002 |   |  |
| 4.0  | .022                  | .019 | .016 | .019 | .016 | .014 | .013                                       | .011 | .010 | .008 | .007 | .006 | .002 | .002 | .002 |   |  |
| 5.0  | .020                  | .016 | .013 | .017 | .014 | .012 | .012                                       | .010 | .008 | .007 | .006 | .005 | .002 | .002 | .002 |   |  |
| 6.0  | .018                  | .014 | .011 | .016 | .012 | .010 | .011                                       | .009 | .007 | .006 | .005 | .004 | .002 | .002 | .001 |   |  |
| 7.0  | .016                  | .013 | .010 | .014 | .011 | .009 | .010                                       | .008 | .006 | .006 | .004 | .004 | .002 | .001 | .001 |   |  |
| 8.0  | .015                  | .011 | .008 | .013 | .010 | .007 | .009                                       | .007 | .005 | .005 | .004 | .003 | .002 | .001 | .001 |   |  |
| 9.0  | .014                  | .010 | .007 | .012 | .009 | .006 | .008                                       | .006 | .005 | .005 | .004 | .003 | .002 | .001 | .001 |   |  |
| 10.0 | .013                  | .009 | .007 | .011 | .008 | .006 | .008                                       | .006 | .004 | .004 | .003 | .002 | .001 | .001 | .001 |   |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

|  |                  |     |     |     |                    |                |     |                        |     |     |
|--|------------------|-----|-----|-----|--------------------|----------------|-----|------------------------|-----|-----|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                  |     |     |     |                    |                |     |                        |     |     |
| NAME: 2319.201F-H3AM-350   |                  |     |     |     | TYPE:              |                |     | WEIGHT:                |     |     |
| SPEC.: 3000K   |                  |     |     |     | DIM.:              |                |     | SERIAL No.: 2306100757 |     |     |
| MFR.: RISE   |                  |     |     |     | SUR.: 0.00101736m2 |                |     | 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  | 5.1              | 5.5 | 5.3 | 5.7 | 5.8                | 3.6            | 4.0 | 3.8                    | 4.2 | 4.3 |
| 3H   | 4.9              | 5.4 | 5.2 | 5.6 | 5.7                | 3.4            | 3.9 | 3.7                    | 4.1 | 4.2 |
| 4H   | 4.9              | 5.3 | 5.1 | 5.5 | 5.7                | 3.4            | 3.8 | 3.6                    | 4.0 | 4.2 |
| 6H   | 4.8              | 5.2 | 5.0 | 5.4 | 5.6                | 3.3            | 3.7 | 3.6                    | 3.9 | 4.2 |
| 8H   | 4.7              | 5.1 | 5.0 | 5.4 | 5.6                | 3.2            | 3.6 | 3.5                    | 3.9 | 4.1 |
| 12H  | 4.7              | 5.1 | 5.0 | 5.3 | 5.6                | 3.2            | 3.6 | 3.5                    | 3.8 | 4.1 |
| 4H 2H  | 4.9              | 5.3 | 5.1 | 5.5 | 5.7                | 3.4            | 3.8 | 3.6                    | 4.0 | 4.2 |
| 3H   | 4.7              | 5.1 | 5.0 | 5.3 | 5.6                | 3.2            | 3.6 | 3.5                    | 3.8 | 4.1 |
| 4H   | 4.6              | 5.0 | 4.9 | 5.2 | 5.5                | 3.1            | 3.5 | 3.4                    | 3.8 | 4.0 |
| 6H   | 4.5              | 4.8 | 4.9 | 5.1 | 5.5                | 3.0            | 3.3 | 3.4                    | 3.7 | 4.0 |
| 8H   | 4.4              | 4.7 | 4.8 | 5.1 | 5.4                | 3.0            | 3.3 | 3.3                    | 3.6 | 4.0 |
| 12H  | 4.4              | 4.7 | 4.8 | 5.0 | 5.4                | 2.9            | 3.2 | 3.3                    | 3.5 | 3.9 |
| 8H 4H  | 4.4              | 4.7 | 4.8 | 5.1 | 5.4                | 3.0            | 3.3 | 3.3                    | 3.6 | 4.0 |
| 6H   | 4.3              | 4.6 | 4.7 | 5.0 | 5.4                | 2.8            | 3.1 | 3.2                    | 3.5 | 3.9 |
| 8H   | 4.2              | 4.5 | 4.7 | 4.9 | 5.3                | 2.8            | 3.0 | 3.2                    | 3.4 | 3.8 |
| 12H  | 4.2              | 4.4 | 4.6 | 4.8 | 5.3                | 2.7            | 2.9 | 3.2                    | 3.3 | 3.8 |
| 12H 4H   | 4.4              | 4.7 | 4.8 | 5.0 | 5.4                | 2.9            | 3.2 | 3.3                    | 3.5 | 3.9 |
| 6H   | 4.2              | 4.5 | 4.7 | 4.9 | 5.3                | 2.8            | 3.0 | 3.2                    | 3.4 | 3.8 |
| 8H   | 4.2              | 4.4 | 4.6 | 4.8 | 5.3                | 2.7            | 2.9 | 3.2                    | 3.3 | 3.8 |
| Variations with the observer position at spacings(CIE Pub.117):                    |                  |     |     |     |                    |                |     |                        |     |     |
| S = 1.0H   | + 2.7 / -15.5    |     |     |     |                    | + 2.6 / -14.2  |     |                        |     |     |
| 1.5H   | + 4.7 / -12.3    |     |     |     |                    | + 4.3 / -11.5  |     |                        |     |     |
| 2.0H   | + 8.1 / -14.7    |     |     |     |                    | + 7.5 / -16.1  |     |                        |     |     |

CIE Pub.117, 1340 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)  
Area: 0.00101736 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up



### UTILIZATION FACTORS TABLE

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |

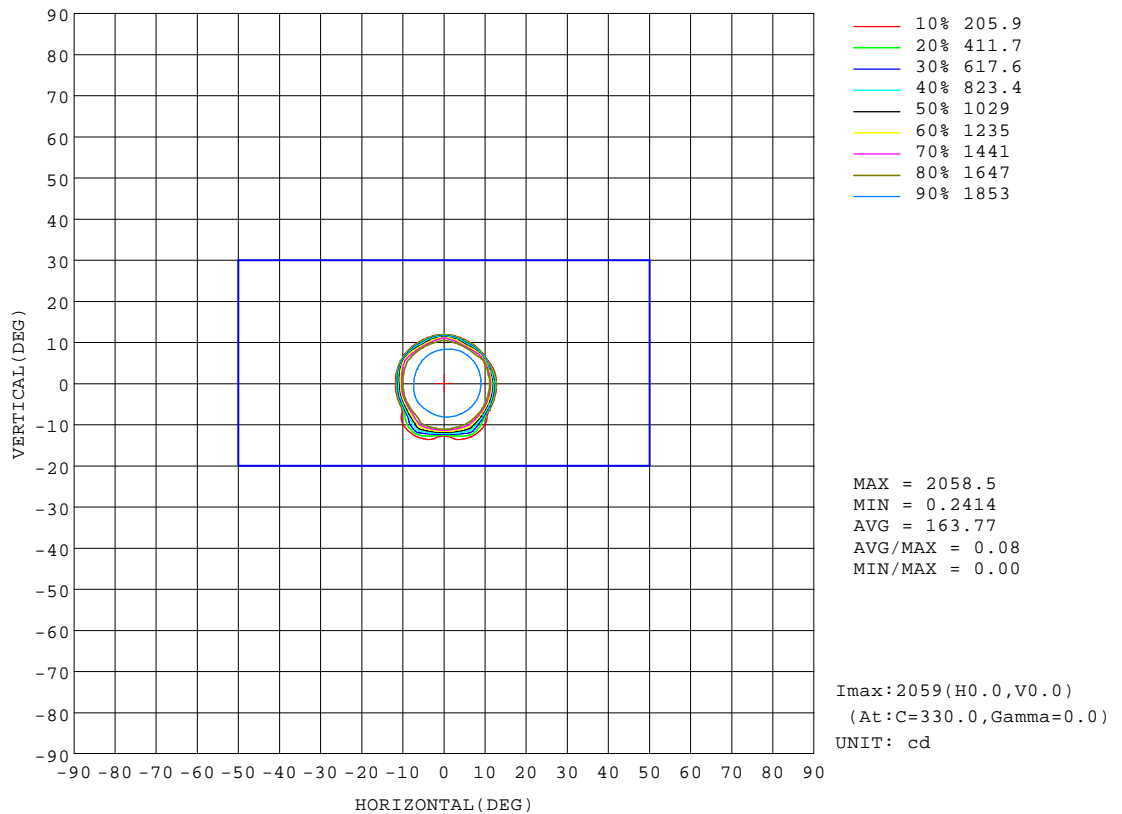
| REFLECTANCE                      |   |     |           |     |     |     |     |               |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 17  | 16  | 16        | 17  | 16  | 16  | 17  | 16            | 16  | 15     |
| 0.80                             | 19  | 18  | 17        | 19  | 18  | 17  | 18  | 18            | 17  | 16     |
| 1.00                             | 19  | 19  | 18        | 19  | 18  | 18  | 19  | 18            | 18  | 17     |
| 1.25                             | 20  | 19  | 19        | 20  | 19  | 19  | 20  | 19            | 18  | 18     |
| 1.50                             | 21  | 20  | 19        | 20  | 20  | 19  | 20  | 19            | 19  | 18     |
| 2.00                             | 21  | 20  | 20        | 21  | 20  | 20  | 20  | 20            | 19  | 18     |
| 2.50                             | 21  | 21  | 20        | 21  | 20  | 20  | 20  | 20            | 20  | 19     |
| 3.00                             | 22  | 21  | 20        | 21  | 21  | 20  | 21  | 20            | 20  | 19     |
| 4.00                             | 22  | 21  | 21        | 22  | 21  | 21  | 21  | 21            | 20  | 19     |
| 5.00                             | 22  | 22  | 21        | 22  | 21  | 21  | 21  | 21            | 21  | 19     |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |

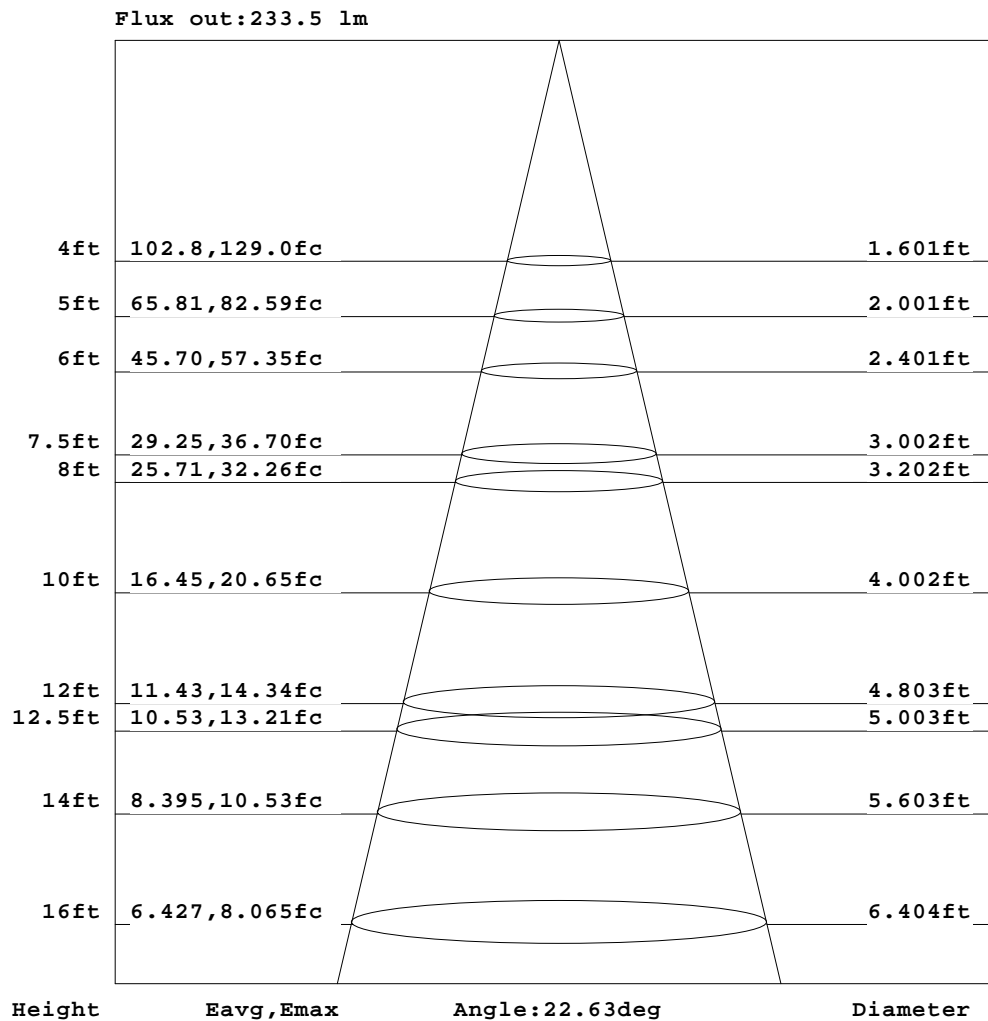


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## AAI Figure

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |



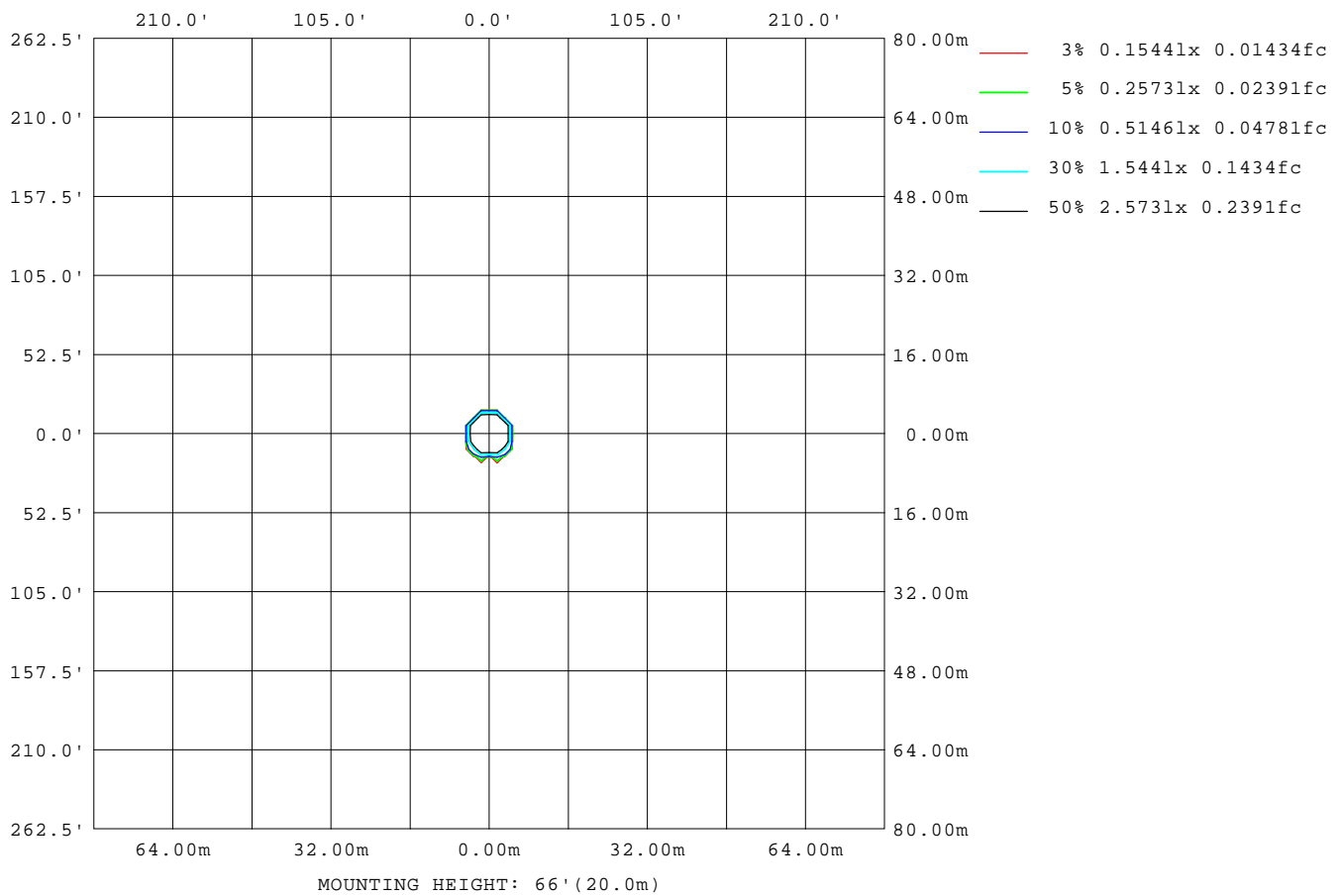
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra: 97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## ISOLUX DIAGRAM

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up

## LED Avg.L Report

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |

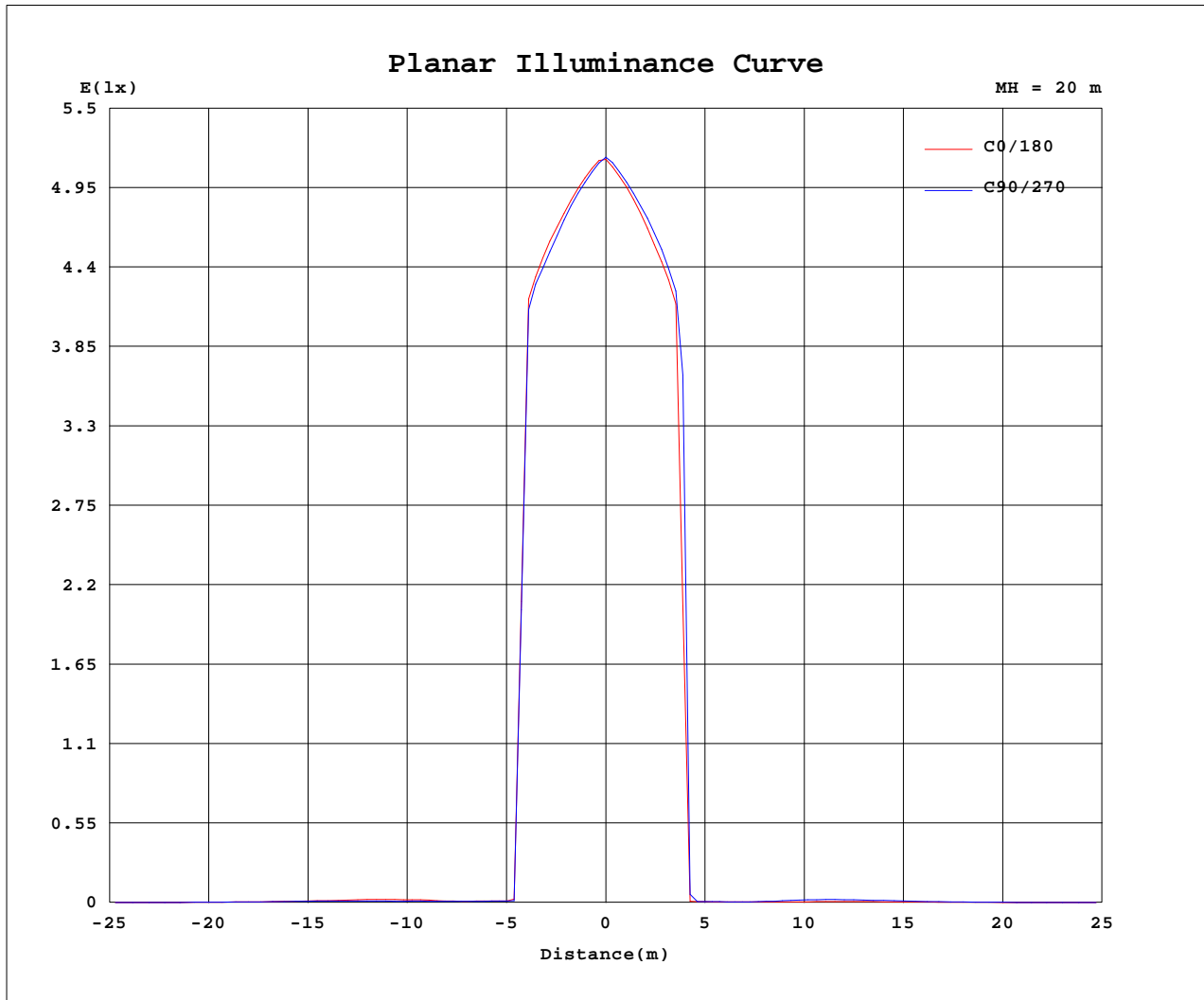
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 62    |
| L_0~180(75)av  | 5     |
| L_0~180(85)av  | 0     |
| L_90~270(65)av | 69    |
| L_90~270(75)av | 11    |
| L_90~270(85)av | 0     |
| L_45(65)av     | 65    |
| L_45(75)av     | 3     |
| L_45(85)av     | 0     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 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: 2023-6-10

γ Range: 0 - 180DEG  
 γ 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-30H1000-A-83 Ra: 97  
 LENS: 20R  
 DRIVER: RISE DRIVER 350mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                    |                        |
|--|--------------------|------------------------|
| Test:U:120.11V I:0.1133A P:13.409W PF:0.9838 Freq:59.98Hz<br>Lamp Flux:1339.9x1 lm |                    |                        |
| NAME: 2319.201F-H3AM-350   | TYPE:              | WEIGHT:                |
| SPEC.: 3000K   | DIM.:              | SERIAL No.: 2306100757 |
| MFR.: RISE   | SUR.: 0.00101736m2 | Shielding Angle:       |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 30   | 60   | 90   | 120  | 150  | 180  | 210  | 240  | 270  | 300  | 330  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0                 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 | 2062 |  |  |  |  |  |  |
| 5                 | 1971 | 1971 | 1958 | 1950 | 1942 | 1940 | 1936 | 1934 | 1942 | 1950 | 1956 | 1961 |  |  |  |  |  |  |
| 10                | 1818 | 1810 | 1783 | 1791 | 1772 | 1745 | 1740 | 1742 | 1759 | 1771 | 1796 | 1817 |  |  |  |  |  |  |
| 15                | 5.29 | 5.17 | 12.9 | 5.11 | 5.80 | 4.87 | 2.63 | 2.66 | 2.75 | 2.89 | 2.99 | 2.98 |  |  |  |  |  |  |
| 20                | 4.85 | 4.62 | 4.42 | 4.44 | 4.41 | 4.36 | 2.35 | 2.41 | 2.54 | 2.80 | 2.90 | 2.88 |  |  |  |  |  |  |
| 25                | 10.6 | 9.90 | 6.86 | 5.78 | 5.29 | 4.98 | 3.13 | 3.73 | 5.00 | 8.16 | 9.87 | 9.09 |  |  |  |  |  |  |
| 30                | 13.8 | 14.4 | 8.90 | 7.41 | 5.48 | 4.53 | 4.33 | 5.93 | 8.27 | 12.9 | 16.9 | 15.0 |  |  |  |  |  |  |
| 35                | 10.7 | 12.1 | 8.56 | 8.27 | 6.02 | 4.75 | 4.45 | 6.29 | 7.98 | 10.8 | 13.7 | 13.5 |  |  |  |  |  |  |
| 40                | 6.51 | 6.89 | 5.66 | 5.89 | 4.48 | 3.42 | 3.35 | 4.62 | 5.52 | 6.04 | 8.21 | 7.97 |  |  |  |  |  |  |
| 45                | 3.34 | 3.00 | 2.88 | 3.21 | 2.62 | 1.82 | 2.06 | 2.68 | 2.90 | 2.50 | 3.95 | 3.81 |  |  |  |  |  |  |
| 50                | 1.02 | 0.63 | 1.01 | 1.06 | 0.90 | 0.65 | 0.79 | 0.80 | 0.86 | 0.70 | 1.03 | 1.02 |  |  |  |  |  |  |
| 55                | 0.32 | 0.32 | 0.31 | 0.32 | 0.33 | 0.32 | 0.29 | 0.29 | 0.29 | 0.30 | 0.30 | 0.30 |  |  |  |  |  |  |
| 60                | 0.13 | 0.13 | 0.13 | 0.14 | 0.15 | 0.14 | 0.12 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 |  |  |  |  |  |  |
| 65                | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |  |  |  |  |  |  |
| 70                | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 75                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 80                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 85                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 90                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 95                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 100               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 105               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 110               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 115               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 120               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 125               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 130               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 135               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 140               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 145               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 150               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 155               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 160               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 165               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 170               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 175               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| 180               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-6-10

γ Range: 0 - 180DEG  
γ 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-30H1000-A-83 Ra:97  
LENS: 20R  
DRIVER: RISE DRIVER 350mA  
30minutes warm-up