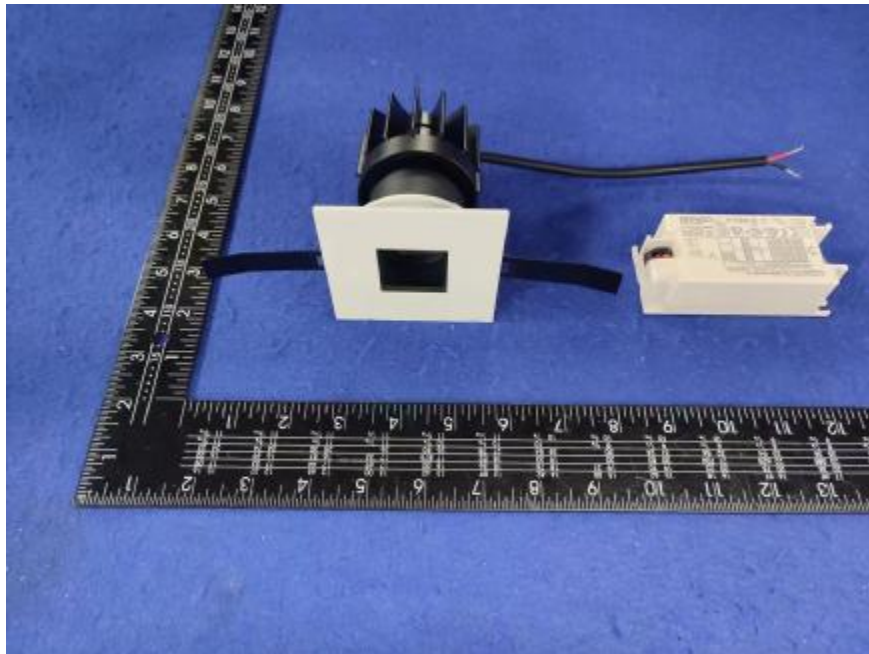


Luminaire Photograph



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 47.4% | |
| Luminaire Power: | 13.77 W | |
| SHR Nominal: | 0.00 | Calculated using the TM5 |
| SHR Maximum: | 0.30 | fine grid method. |

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

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-30G1000-A-83 Ra: 90
LENS: PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

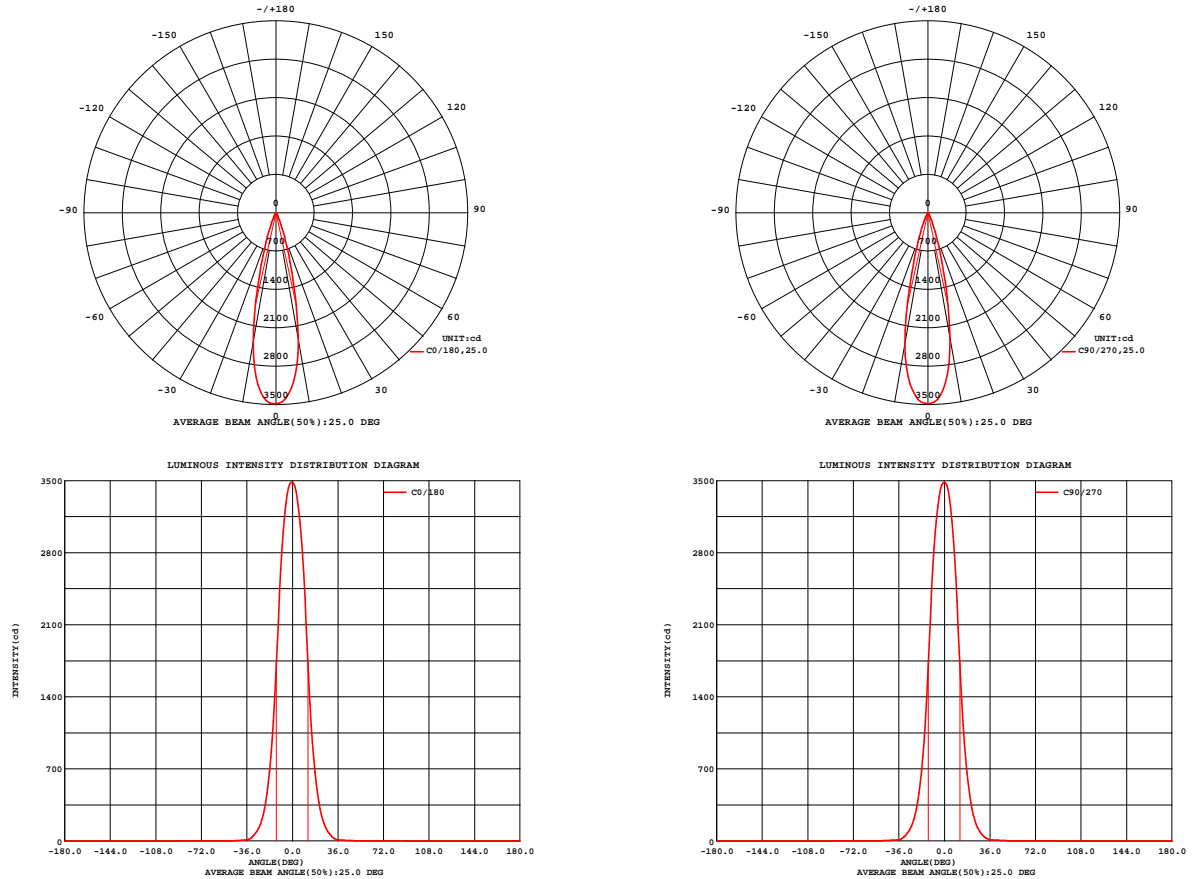


Fig. C0/C180

Fig. C90/C270

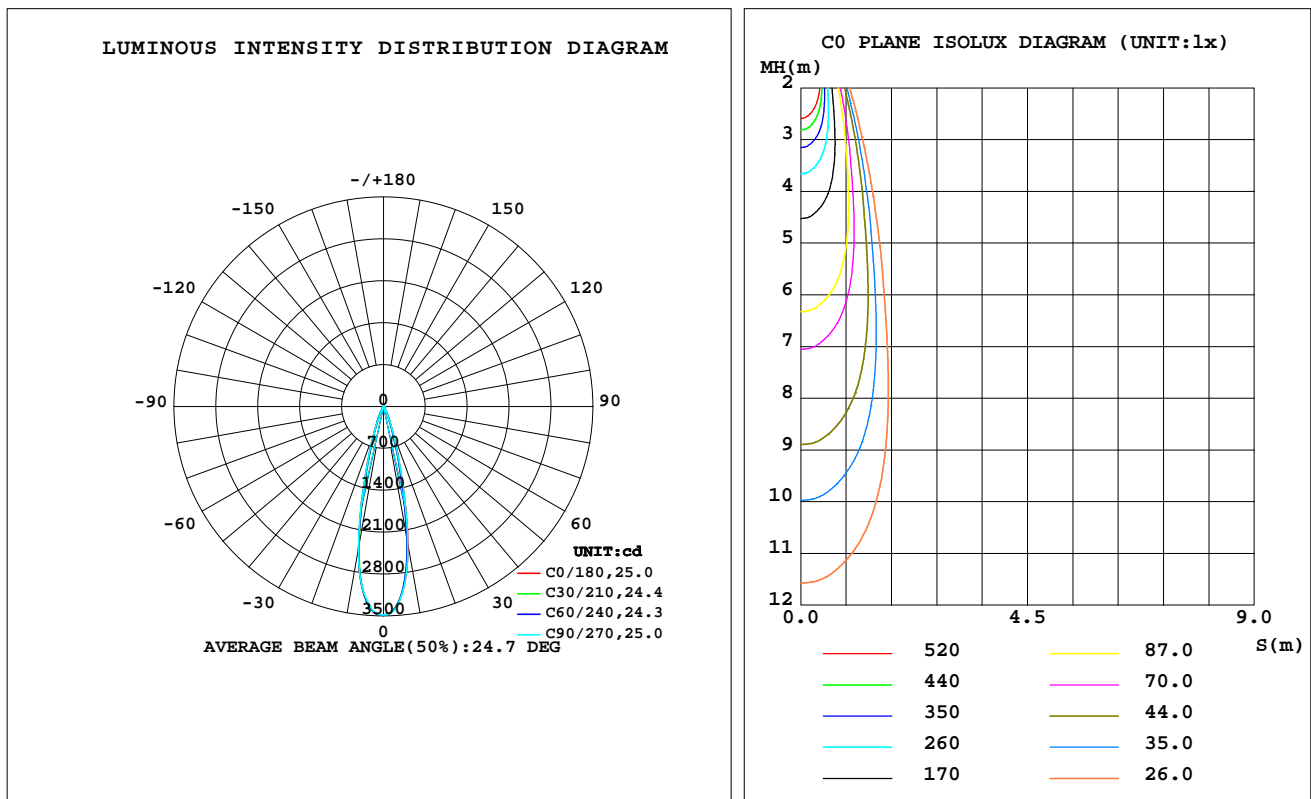
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-8-8

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-30G1000-A-83 Ra: 90
LENS: PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 51.25 lm/W | | | |
|------------------|-----------|----------------------------------|--------|-------------------|----------|
| MODEL | Bridgelux | I _{max} (cd) | 3484 | S/MH(C0/180) | 0.41 |
| NOMINAL POWER(W) | 14 | LOR(%) | 47.4 | S/MH(C90/270) | 0.41 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 705.93 | η UP,DN(C0-180) | 0.0,23.5 |
| NOMINAL FLUX(lm) | 1490.38 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,23.9 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | 220 | η down(%) | 47.4 | CIBSE SHR MAX | 0.30 |



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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10 | 2359 | 2275 | 2331 | 2326 | 2410 | 2394 | 2425 | 2332 | 0- 10 | 281.5 | 281.5 | 39.9,18.9 |
| 20 | 460.5 | 426.5 | 458.2 | 426.4 | 464.4 | 435.3 | 466.9 | 428.3 | 10- 20 | 313.2 | 594.7 | 84.2,39.9 |
| 30 | 59.12 | 72.06 | 59.79 | 70.83 | 59.76 | 72.94 | 61.53 | 75.21 | 20- 30 | 89.31 | 684.0 | 96.9,45.9 |
| 40 | 7.354 | 8.226 | 8.082 | 7.749 | 6.256 | 7.024 | 7.743 | 7.705 | 30- 40 | 16.63 | 700.6 | 99.2,47 |
| 50 | 1.939 | 2.992 | 2.869 | 2.475 | 1.327 | 2.043 | 2.093 | 2.716 | 40- 50 | 3.569 | 704.2 | 99.8,47.2 |
| 60 | 0.7608 | 0.8342 | 1.151 | 0.5759 | 0.2367 | 0.2823 | 0.8008 | 0.8500 | 50- 60 | 1.021 | 705.2 | 99.9,47.3 |
| 70 | 0.3873 | 0.4069 | 0.5090 | 0.2418 | 0.1575 | 0.1484 | 0.3579 | 0.4021 | 60- 70 | 0.4898 | 705.7 | 100,47.4 |
| 80 | 0.1024 | 0.0868 | 0.1071 | 0.0455 | 0.0644 | 0.0445 | 0.1025 | 0.0883 | 70- 80 | 0.1899 | 705.9 | 100,47.4 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 0.0343 | 705.9 | 100,47.4 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 705.9 | 100,47.4 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 705.9 | 100,47.4 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 705.9 | 100,47.4 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 705.9 | 100,47.4 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 705.9 | 100,47.4 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 705.9 | 100,47.4 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 705.9 | 100,47.4 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 705.9 | 100,47.4 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 705.9 | 100,47.4 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz
Lamp Flux:1490.38x1 lm

NAME: 2418.106-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

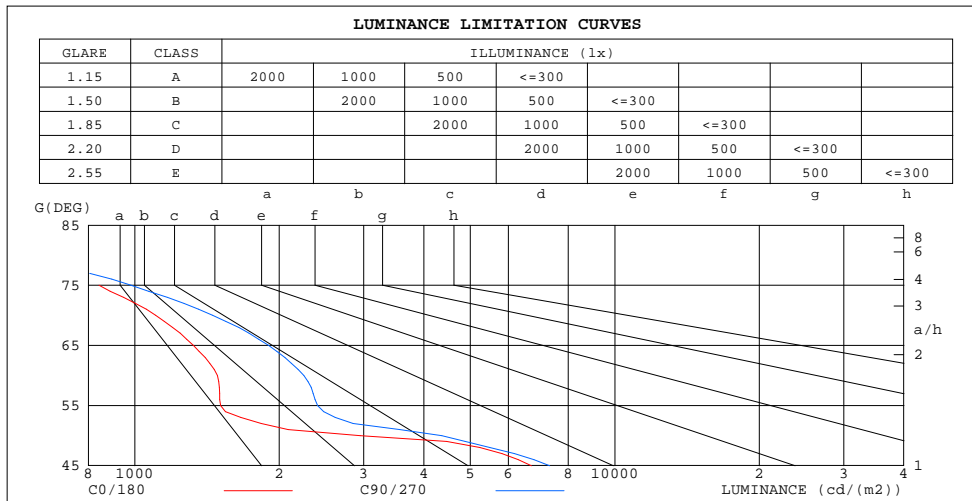
DIM.:

SERIAL No.: 2408080998

MFR.: RISE

SUR.: 0.001024m2

Shielding Angle:



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(180) | C0/180 | C90/270 |
| 85 | 442 | 539 |
| 80 | 576 | 602 |
| 75 | 843 | 982 |
| 70 | 1106 | 1453 |
| 65 | 1325 | 1899 |
| 60 | 1486 | 2249 |
| 55 | 1509 | 2404 |
| 50 | 2947 | 4358 |
| 45 | 6700 | 7316 |

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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz
Lamp Flux:1490.38x1 lm

NAME: 2418.106-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

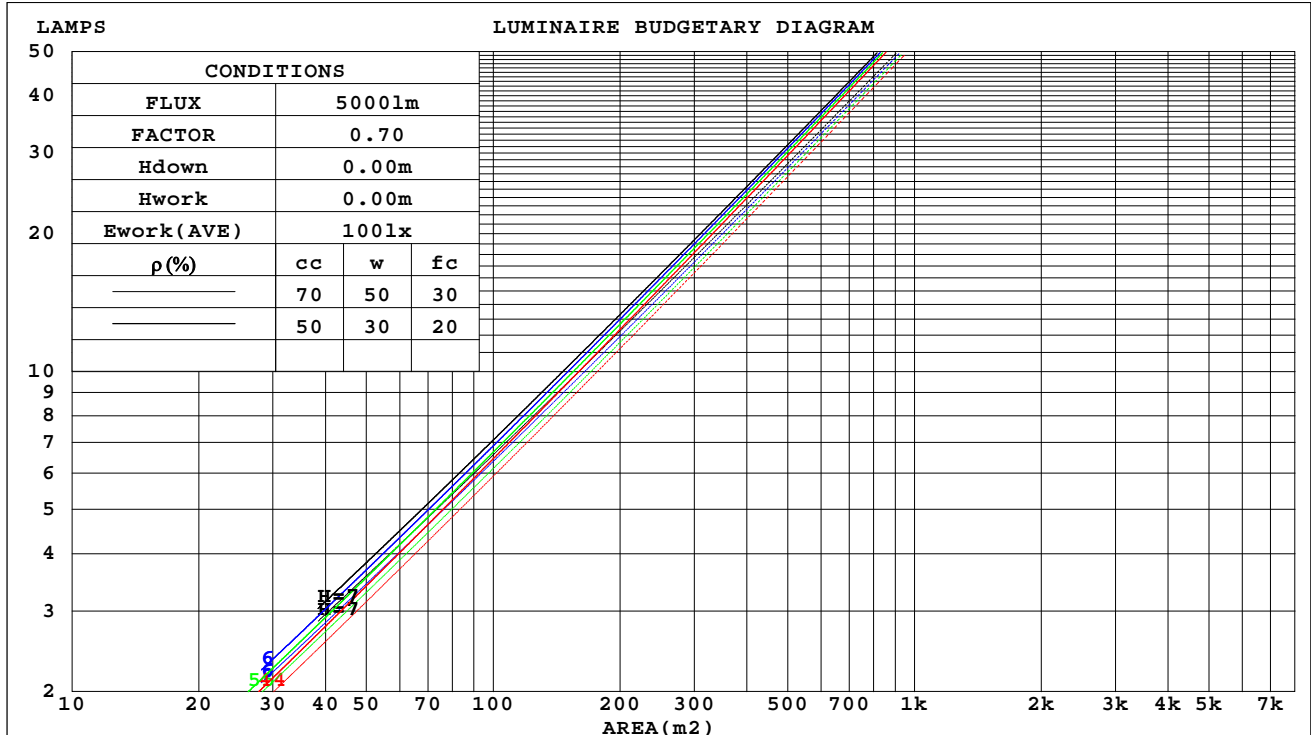
SERIAL No.: 2408080998

MFR.: RISE

SUR.: 0.001024m2

Shielding Angle:

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|-----------------------|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | Coefficients of Utilization(CU) | | | | | | | | | | | | |
| 0.0 | .56 | .56 | .56 | .55 | .55 | .55 | .53 | .53 | .53 | .50 | .50 | .50 | .48 | .48 | .48 | .47 |
| 1.0 | .54 | .53 | .52 | .53 | .52 | .51 | .51 | .50 | .50 | .49 | .49 | .48 | .47 | .47 | .47 | .46 |
| 2.0 | .51 | .50 | .49 | .50 | .49 | .48 | .49 | .48 | .47 | .48 | .47 | .46 | .46 | .46 | .45 | .45 |
| 3.0 | .49 | .48 | .46 | .49 | .47 | .46 | .47 | .46 | .45 | .46 | .45 | .45 | .45 | .45 | .44 | .43 |
| 4.0 | .47 | .46 | .44 | .47 | .45 | .44 | .46 | .45 | .44 | .45 | .44 | .43 | .44 | .43 | .43 | .42 |
| 5.0 | .46 | .44 | .43 | .45 | .44 | .42 | .45 | .43 | .42 | .44 | .43 | .42 | .43 | .42 | .41 | .41 |
| 6.0 | .44 | .43 | .41 | .44 | .42 | .41 | .43 | .42 | .41 | .43 | .42 | .41 | .42 | .41 | .40 | .40 |
| 7.0 | .43 | .41 | .40 | .43 | .41 | .40 | .42 | .41 | .40 | .42 | .41 | .39 | .41 | .40 | .39 | .39 |
| 8.0 | .42 | .40 | .39 | .42 | .40 | .39 | .41 | .40 | .39 | .41 | .39 | .38 | .41 | .39 | .38 | .38 |
| 9.0 | .41 | .39 | .38 | .41 | .39 | .38 | .40 | .39 | .38 | .40 | .39 | .38 | .40 | .38 | .37 | .37 |
| 10.0 | .40 | .38 | .37 | .40 | .38 | .37 | .39 | .38 | .37 | .39 | .38 | .37 | .39 | .37 | .37 | .36 |



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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

WEC AND CCEC

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | 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 | .062 | .035 | .011 | .059 | .034 | .011 | .053 | .031 | .010 | .048 | .028 | .009 | .043 | .025 | .008 | |
| 2.0 | .057 | .031 | .010 | .055 | .030 | .009 | .050 | .028 | .009 | .046 | .026 | .008 | .041 | .023 | .007 | |
| 3.0 | .053 | .028 | .008 | .051 | .027 | .008 | .047 | .026 | .008 | .043 | .024 | .007 | .040 | .022 | .007 | |
| 4.0 | .050 | .026 | .008 | .048 | .025 | .007 | .045 | .024 | .007 | .042 | .022 | .007 | .039 | .021 | .006 | |
| 5.0 | .047 | .024 | .007 | .045 | .023 | .007 | .042 | .022 | .007 | .040 | .021 | .006 | .037 | .020 | .006 | |
| 6.0 | .044 | .022 | .006 | .043 | .022 | .006 | .040 | .021 | .006 | .038 | .020 | .006 | .036 | .019 | .006 | |
| 7.0 | .042 | .021 | .006 | .041 | .020 | .006 | .039 | .020 | .006 | .037 | .019 | .005 | .035 | .018 | .005 | |
| 8.0 | .040 | .020 | .005 | .039 | .019 | .005 | .037 | .019 | .005 | .035 | .018 | .005 | .034 | .017 | .005 | |
| 9.0 | .038 | .018 | .005 | .037 | .018 | .005 | .036 | .018 | .005 | .034 | .017 | .005 | .033 | .017 | .005 | |
| 10.0 | .037 | .018 | .005 | .036 | .017 | .005 | .034 | .017 | .005 | .033 | .016 | .005 | .032 | .016 | .005 | |

| 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 | .090 | .090 | .090 | .077 | .077 | .077 | .053 | .053 | .053 | .030 | .030 | .030 | .010 | .010 | .010 | | |
| 1.0 | .080 | .075 | .070 | .068 | .064 | .061 | .047 | .044 | .042 | .027 | .026 | .024 | .009 | .008 | .008 | | |
| 2.0 | .071 | .063 | .056 | .061 | .054 | .049 | .042 | .037 | .034 | .024 | .022 | .020 | .008 | .007 | .006 | | |
| 3.0 | .064 | .054 | .046 | .054 | .046 | .040 | .037 | .032 | .028 | .022 | .019 | .016 | .007 | .006 | .005 | | |
| 4.0 | .057 | .046 | .038 | .049 | .040 | .033 | .034 | .028 | .023 | .020 | .016 | .014 | .006 | .005 | .004 | | |
| 5.0 | .052 | .040 | .032 | .045 | .035 | .027 | .031 | .024 | .019 | .018 | .014 | .012 | .006 | .005 | .004 | | |
| 6.0 | .048 | .036 | .027 | .041 | .031 | .023 | .029 | .022 | .016 | .017 | .013 | .010 | .005 | .004 | .003 | | |
| 7.0 | .044 | .032 | .023 | .038 | .028 | .020 | .026 | .019 | .014 | .015 | .011 | .008 | .005 | .004 | .003 | | |
| 8.0 | .041 | .028 | .020 | .036 | .025 | .017 | .025 | .017 | .012 | .014 | .010 | .007 | .005 | .003 | .002 | | |
| 9.0 | .039 | .026 | .017 | .033 | .022 | .015 | .023 | .016 | .011 | .013 | .009 | .006 | .004 | .003 | .002 | | |
| 10.0 | .036 | .024 | .015 | .031 | .020 | .013 | .022 | .014 | .009 | .013 | .008 | .006 | .004 | .003 | .002 | | |

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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|-----|-----|-----|------------------|----------------|-----|------------------------|-----|-----|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | | | | | | | | | |
| NAME: 2418.106-ACOT-70 | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: 3000K | | | | | DIM.: | | | SERIAL No.: 2408080998 | | |
| 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 | 6.3 | 7.0 | 6.5 | 7.1 | 7.2 | 6.6 | 7.2 | 6.8 | 7.4 | 7.5 |
| 3H | 6.3 | 6.8 | 6.5 | 7.0 | 7.2 | 6.6 | 7.1 | 6.8 | 7.3 | 7.5 |
| 4H | 6.2 | 6.8 | 6.5 | 7.0 | 7.2 | 6.5 | 7.1 | 6.8 | 7.3 | 7.5 |
| 6H | 6.2 | 6.7 | 6.4 | 6.9 | 7.1 | 6.5 | 7.0 | 6.7 | 7.2 | 7.4 |
| 8H | 6.1 | 6.6 | 6.4 | 6.9 | 7.1 | 6.4 | 6.9 | 6.7 | 7.2 | 7.4 |
| 12H | 6.1 | 6.6 | 6.4 | 6.8 | 7.1 | 6.4 | 6.9 | 6.7 | 7.1 | 7.4 |
| 4H 2H | 6.2 | 6.7 | 6.4 | 6.9 | 7.1 | 6.4 | 7.0 | 6.7 | 7.2 | 7.4 |
| 3H | 6.1 | 6.6 | 6.4 | 6.9 | 7.1 | 6.4 | 6.9 | 6.7 | 7.2 | 7.4 |
| 4H | 6.1 | 6.5 | 6.4 | 6.8 | 7.1 | 6.4 | 6.8 | 6.7 | 7.1 | 7.4 |
| 6H | 6.0 | 6.4 | 6.4 | 6.7 | 7.1 | 6.3 | 6.7 | 6.7 | 7.0 | 7.4 |
| 8H | 5.9 | 6.3 | 6.3 | 6.7 | 7.0 | 6.2 | 6.6 | 6.6 | 7.0 | 7.3 |
| 12H | 5.9 | 6.2 | 6.3 | 6.6 | 7.0 | 6.2 | 6.5 | 6.6 | 6.9 | 7.3 |
| 8H 4H | 5.9 | 6.3 | 6.3 | 6.7 | 7.0 | 6.2 | 6.6 | 6.6 | 6.9 | 7.3 |
| 6H | 5.9 | 6.2 | 6.3 | 6.6 | 7.0 | 6.2 | 6.5 | 6.6 | 6.9 | 7.3 |
| 8H | 5.8 | 6.1 | 6.2 | 6.5 | 6.9 | 6.1 | 6.4 | 6.5 | 6.8 | 7.2 |
| 12H | 5.7 | 6.0 | 6.2 | 6.4 | 6.9 | 6.0 | 6.3 | 6.5 | 6.7 | 7.2 |
| 12H 4H | 5.9 | 6.2 | 6.3 | 6.6 | 7.0 | 6.2 | 6.5 | 6.6 | 6.9 | 7.3 |
| 6H | 5.8 | 6.1 | 6.2 | 6.5 | 6.9 | 6.1 | 6.4 | 6.5 | 6.8 | 7.2 |
| 8H | 5.7 | 6.0 | 6.2 | 6.4 | 6.9 | 6.0 | 6.3 | 6.5 | 6.7 | 7.2 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 2.2 / - 4.6 | | | | | + 2.2 / - 3.8 | | | | |
| 1.5H | + 3.0 / - 4.8 | | | | | + 3.2 / - 4.2 | | | | |
| 2.0H | + 4.6 / - 3.0 | | | | | + 4.4 / - 2.8 | | | | |

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:2024-8-8

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

UTILIZATION FACTORS TABLE

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | Shielding Angle: |

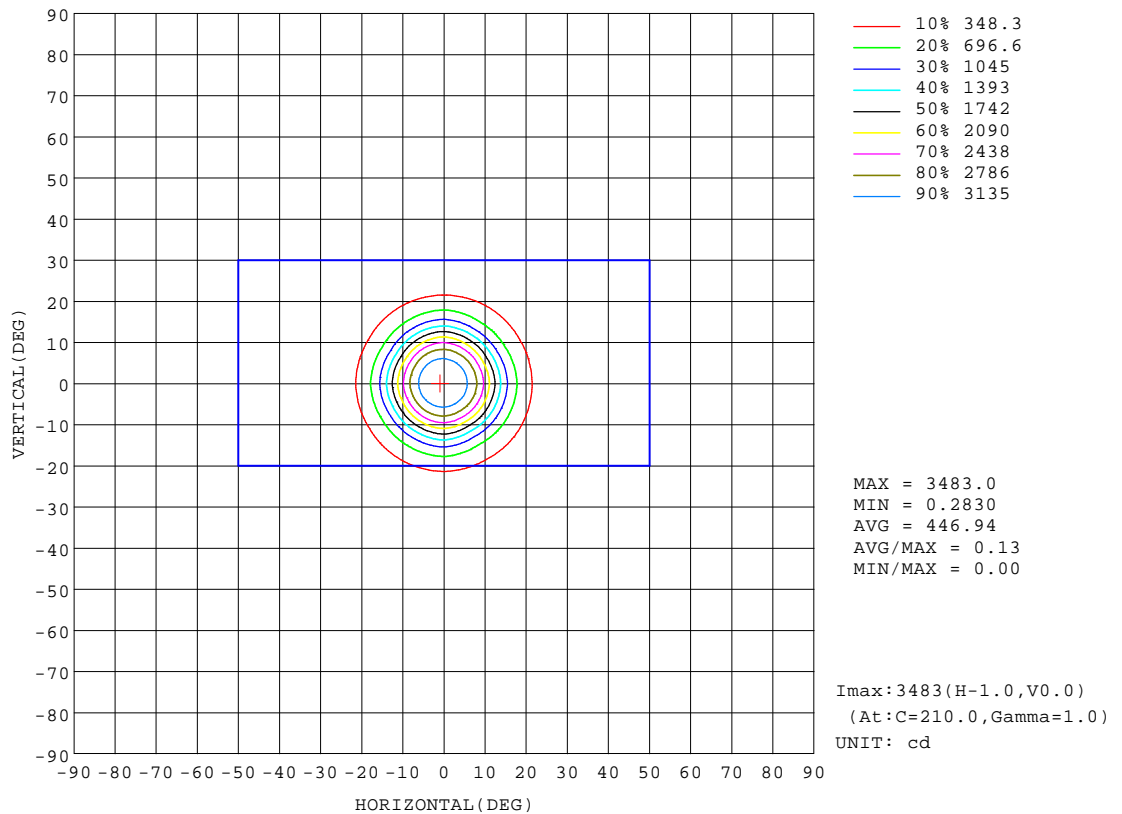
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 43 | 40 | 39 | 43 | 40 | 39 | 43 | 40 | 39 | 37 |
| 0.80 | 46 | 44 | 42 | 46 | 44 | 42 | 46 | 44 | 42 | 41 |
| 1.00 | 48 | 46 | 44 | 48 | 46 | 44 | 47 | 45 | 44 | 42 |
| 1.25 | 50 | 48 | 46 | 49 | 47 | 46 | 49 | 47 | 46 | 44 |
| 1.50 | 51 | 49 | 48 | 50 | 49 | 47 | 49 | 48 | 47 | 45 |
| 2.00 | 52 | 50 | 49 | 51 | 50 | 49 | 50 | 49 | 48 | 45 |
| 2.50 | 53 | 51 | 50 | 52 | 51 | 49 | 51 | 49 | 49 | 46 |
| 3.00 | 53 | 52 | 51 | 53 | 51 | 50 | 51 | 50 | 49 | 46 |
| 4.00 | 54 | 53 | 52 | 53 | 52 | 52 | 52 | 51 | 50 | 47 |
| 5.00 | 55 | 54 | 53 | 54 | 53 | 52 | 52 | 51 | 51 | 47 |
| 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:2024-8-8

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

ISOCANDELA DIAGRAM

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | Shielding Angle: |

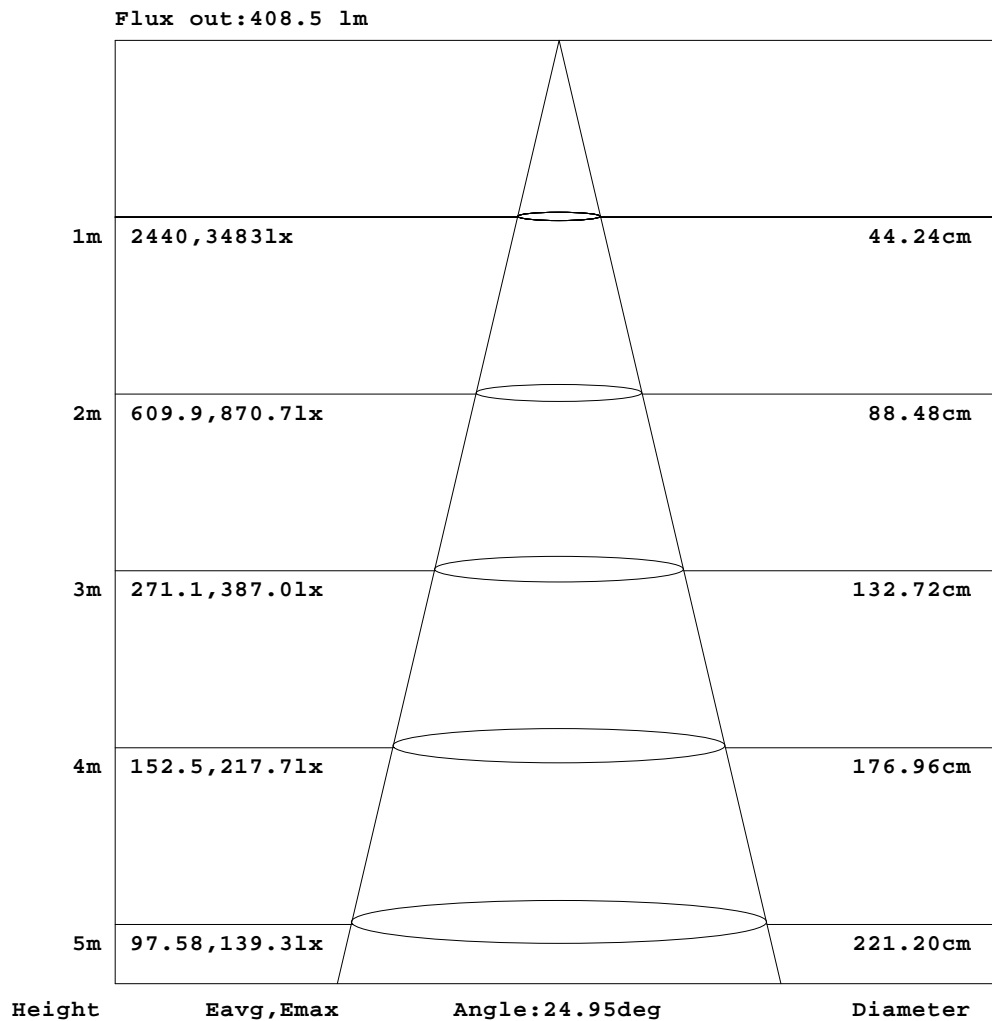


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-8

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

AAI Figure

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | Shielding Angle: |



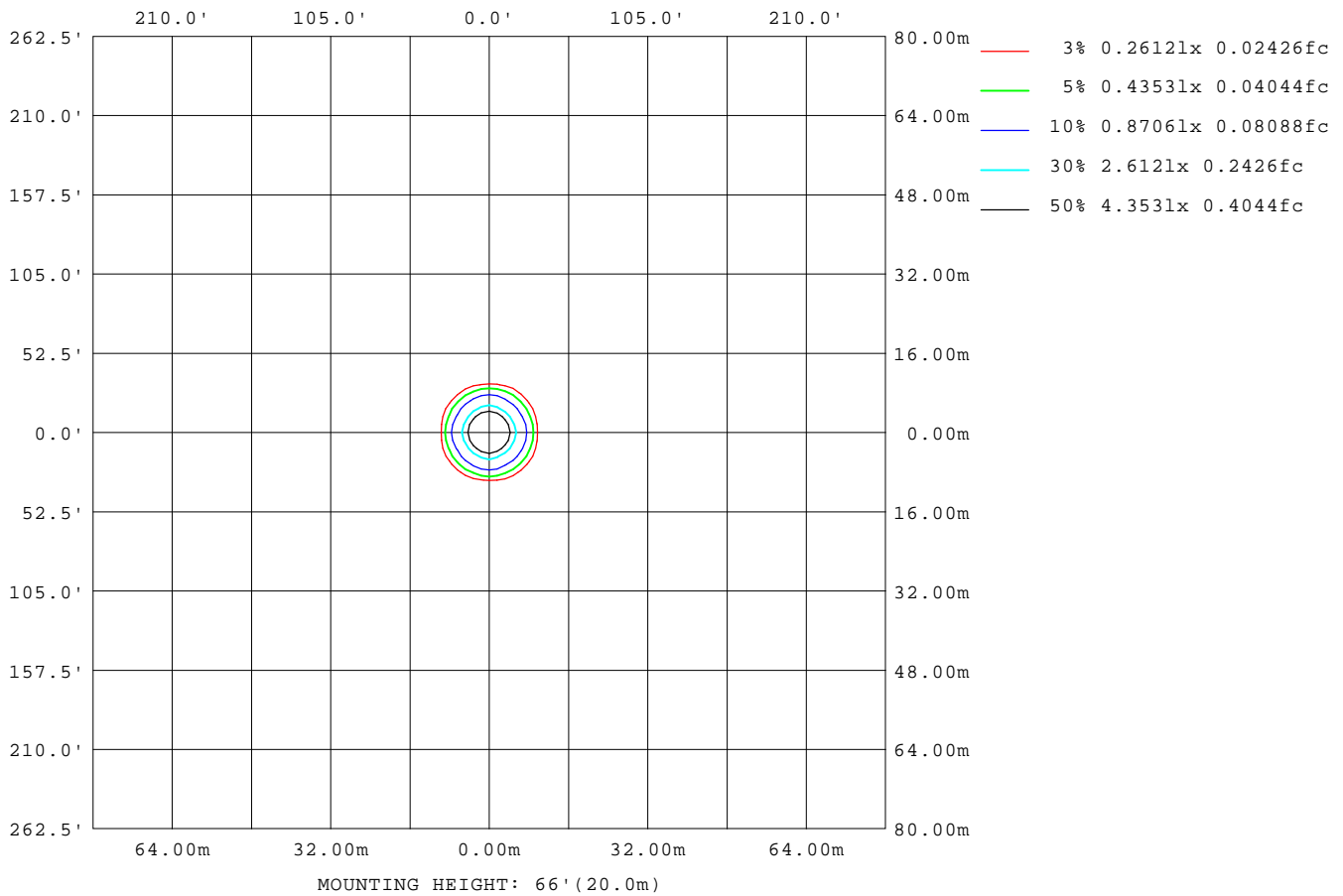
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

ISOLUX DIAGRAM

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| 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:2024-8-8

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LED Avg.L Report

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | Shielding Angle: |

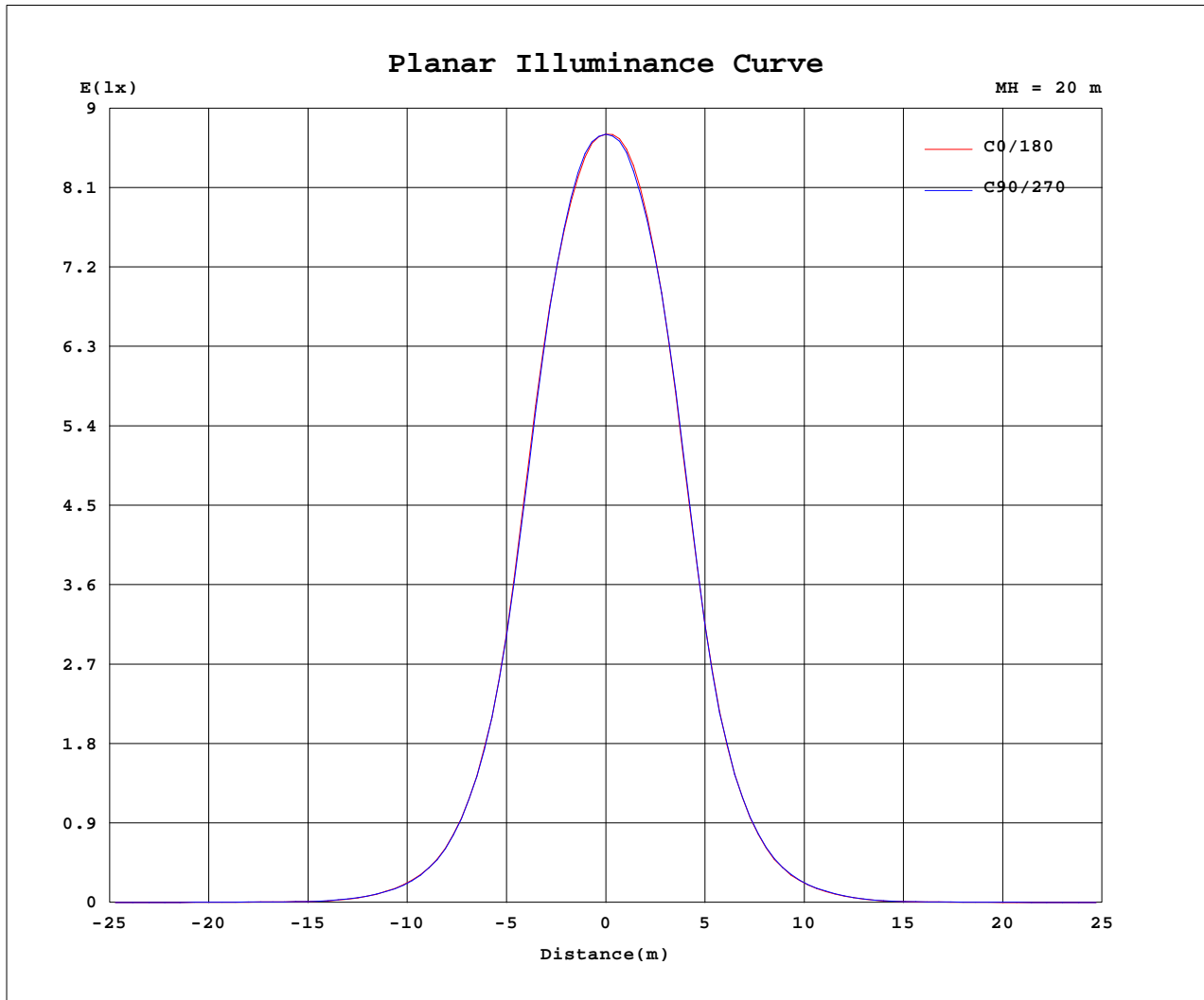
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 916 |
| L_0~180(75)av | 643 |
| L_0~180(85)av | 306 |
| L_90~270(65)av | 1622 |
| L_90~270(75)av | 846 |
| L_90~270(85)av | 582 |
| L_45(65)av | 1066 |
| L_45(75)av | 588 |
| L_45(85)av | 116 |

Standard: GB/T 29293-2012

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

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
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: 2024-8-8

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-30G1000-A-83 Ra: 90
 LENS: PM-1082 15R
 DRIVER: IT FIT 20/200-240/500 CS 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|------------------|------------------------|
| Test:U:220.17V I:0.0644A P:13.774W PF:0.9696 Freq:49.99Hz Lamp Flux:1490.38x1 lm | | |
| NAME: 2418.106-ACOT-70 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2408080998 |
| MFR.: RISE | SUR.: 0.001024m2 | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | 3482 | | | | | | |
| 5 | 3214 | 3213 | 3216 | 3231 | 3243 | 3270 | 3274 | 3277 | 3266 | 3248 | 3234 | 3219 | | | | | | |
| 10 | 2359 | 2292 | 2258 | 2331 | 2318 | 2334 | 2410 | 2377 | 2410 | 2425 | 2351 | 2312 | | | | | | |
| 15 | 1128 | 1065 | 1013 | 1124 | 1076 | 1075 | 1168 | 1086 | 1120 | 1162 | 1062 | 1051 | | | | | | |
| 20 | 461 | 439 | 414 | 458 | 434 | 419 | 464 | 426 | 445 | 467 | 432 | 424 | | | | | | |
| 25 | 171 | 186 | 182 | 166 | 176 | 179 | 168 | 183 | 186 | 172 | 196 | 186 | | | | | | |
| 30 | 59.1 | 72.5 | 71.6 | 59.8 | 69.7 | 72.0 | 59.8 | 73.1 | 72.8 | 61.5 | 77.1 | 73.3 | | | | | | |
| 35 | 14.3 | 25.2 | 26.2 | 16.0 | 25.1 | 26.3 | 14.6 | 25.4 | 25.6 | 15.4 | 27.4 | 25.5 | | | | | | |
| 40 | 7.35 | 7.76 | 8.70 | 8.08 | 7.78 | 7.72 | 6.26 | 6.78 | 7.27 | 7.74 | 7.96 | 7.45 | | | | | | |
| 45 | 4.85 | 5.05 | 4.88 | 5.30 | 4.96 | 4.25 | 3.41 | 3.59 | 4.32 | 4.83 | 4.79 | 4.44 | | | | | | |
| 50 | 1.94 | 3.06 | 2.92 | 2.87 | 2.84 | 2.11 | 1.33 | 1.72 | 2.37 | 2.09 | 2.80 | 2.63 | | | | | | |
| 55 | 0.89 | 1.04 | 1.29 | 1.41 | 1.17 | 0.58 | 0.23 | 0.39 | 0.51 | 0.97 | 1.32 | 1.11 | | | | | | |
| 60 | 0.76 | 0.77 | 0.90 | 1.15 | 0.84 | 0.31 | 0.24 | 0.23 | 0.33 | 0.80 | 0.93 | 0.77 | | | | | | |
| 65 | 0.57 | 0.58 | 0.66 | 0.82 | 0.59 | 0.24 | 0.22 | 0.20 | 0.26 | 0.58 | 0.68 | 0.57 | | | | | | |
| 70 | 0.39 | 0.39 | 0.43 | 0.51 | 0.34 | 0.14 | 0.16 | 0.14 | 0.16 | 0.36 | 0.43 | 0.38 | | | | | | |
| 75 | 0.22 | 0.21 | 0.23 | 0.26 | 0.16 | 0.07 | 0.12 | 0.10 | 0.08 | 0.19 | 0.23 | 0.20 | | | | | | |
| 80 | 0.10 | 0.09 | 0.09 | 0.11 | 0.05 | 0.04 | 0.06 | 0.05 | 0.04 | 0.10 | 0.10 | 0.08 | | | | | | |
| 85 | 0.04 | 0.01 | 0.02 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.06 | 0.03 | 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
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Operators:zoe
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