

Luminaire Photograph



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 68.2% | |
| Luminaire Power: | 17.79 W | |
| SHR Nominal: | 0.50 | Calculated using the TM5 |
| SHR Maximum: | 0.70 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

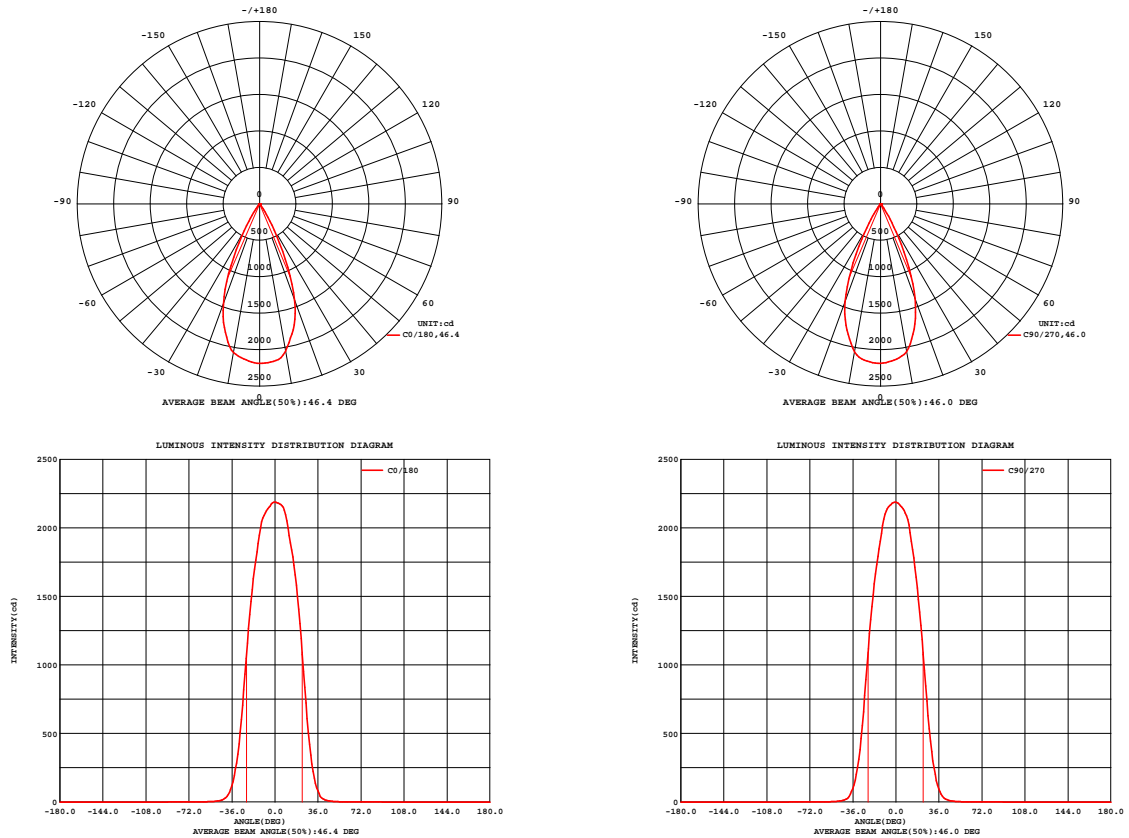


Fig. C0/C180

Fig. C90/C270

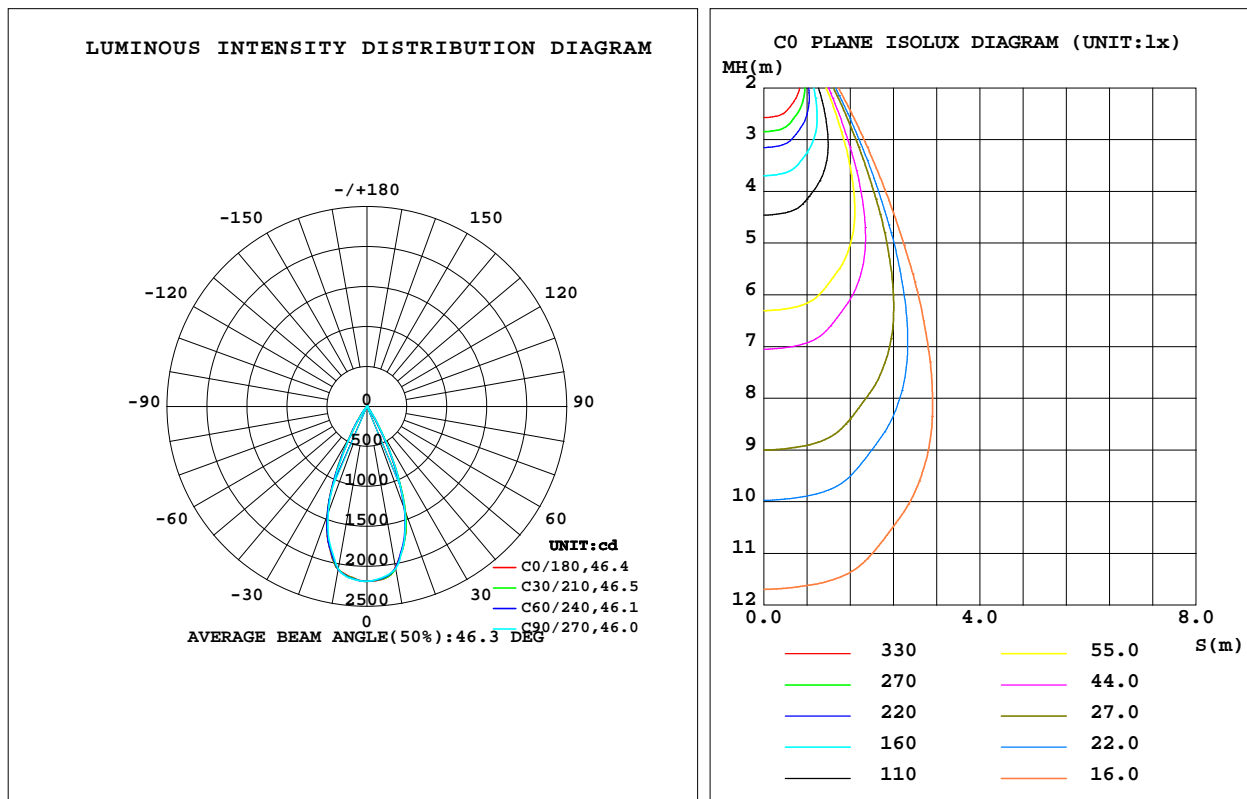
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | | | | |
|---|--|--------------------|--|-----------------------|--|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | | | | |
| NAME: 2218.144-LEA-14 | | TYPE: | | WEIGHT: | |
| SPEC.:3000K | | DIM.: | | SERIAL No.:2303130270 | |
| MFR.: RISE | | SUR.:0.003737385m2 | | Shielding Angle: | |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 67.07 lm/W |
|------------------|-----------|-----------------------|--------|-----------------|----------|-----------------|
| MODEL | Bridgelux | I _{max} (cd) | 2187 | S/MH(C0/180) | 0.71 | |
| NOMINAL POWER(W) | 18 | LOR(%) | 68.2 | S/MH(C90/270) | 0.70 | |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1193.0 | UP,DN(C0-180) | 0.0,33.4 | |
| NOMINAL FLUX(lm) | 1749.3 | CIE CLASS | DIRECT | UP,DN(C180-360) | 0.0,34.8 | |
| LAMPS INSIDE | 1 | up(%) | 0.0 | CIBSE SHR NOM | 0.50 | |
| TEST VOLTAGE(V) | 120 | down(%) | 68.2 | CIBSE SHR MAX | 0.70 | |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

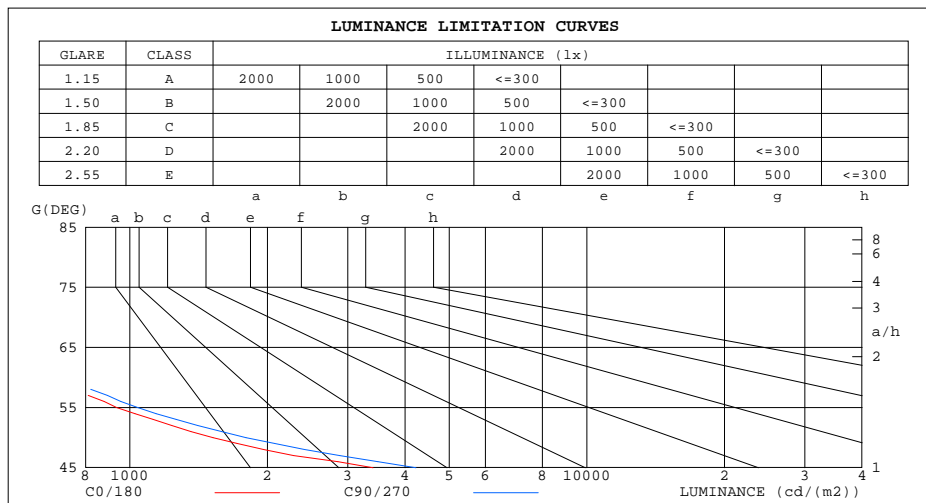
| | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | | zone | total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-------|-----------|
| 10 | 2050 | 2057 | 2061 | 2052 | 2071 | 2072 | 2063 | 2067 | 0- 10 | 203.3 | 203.3 | 17,11.6 |
| 20 | 1406 | 1390 | 1386 | 1379 | 1462 | 1455 | 1425 | 1435 | 10- 20 | 493.7 | 697.0 | 58.4,39.8 |
| 30 | 342.7 | 348.8 | 367.6 | 366.6 | 423.3 | 411.0 | 381.8 | 376.0 | 20- 30 | 391.9 | 1089 | 91.3,62.2 |
| 40 | 23.75 | 26.26 | 32.06 | 34.67 | 41.29 | 37.63 | 29.94 | 27.29 | 30- 40 | 91.16 | 1180 | 98.9,67.5 |
| 50 | 3.652 | 3.766 | 4.315 | 4.755 | 5.181 | 4.636 | 4.102 | 3.877 | 40- 50 | 9.802 | 1190 | 99.7,68 |
| 60 | 1.040 | 1.027 | 1.209 | 1.394 | 1.540 | 1.365 | 1.272 | 1.207 | 50- 60 | 2.168 | 1192 | 99.9,68.1 |
| 70 | 0.3275 | 0.2945 | 0.3617 | 0.4261 | 0.4526 | 0.3814 | 0.3950 | 0.3977 | 60- 70 | 0.7121 | 1193 | 100,68.2 |
| 80 | 0.1024 | 0.0858 | 0.1178 | 0.1319 | 0.1519 | 0.1178 | 0.1280 | 0.1213 | 70- 80 | 0.2364 | 1193 | 100,68.2 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 0.0598 | 1193 | 100,68.2 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 1193 | 100,68.2 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 1193 | 100,68.2 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 1193 | 100,68.2 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 1193 | 100,68.2 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 1193 | 100,68.2 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 1193 | 100,68.2 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 1193 | 100,68.2 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 1193 | 100,68.2 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 1193 | 100,68.2 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Zoe
 Test Date:2023-03-13

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:3.160m [K=1.0000]
 Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
 LENS:PM-1082B 36R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINANCE LIMITATION CURVES

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(180) | C0/180 | C90/270 |
| 85 | 158 | 189 |
| 80 | 158 | 182 |
| 75 | 189 | 212 |
| 70 | 256 | 283 |
| 65 | 371 | 413 |
| 60 | 557 | 647 |
| 55 | 936 | 1041 |
| 50 | 1521 | 1796 |
| 45 | 3409 | 4226 |

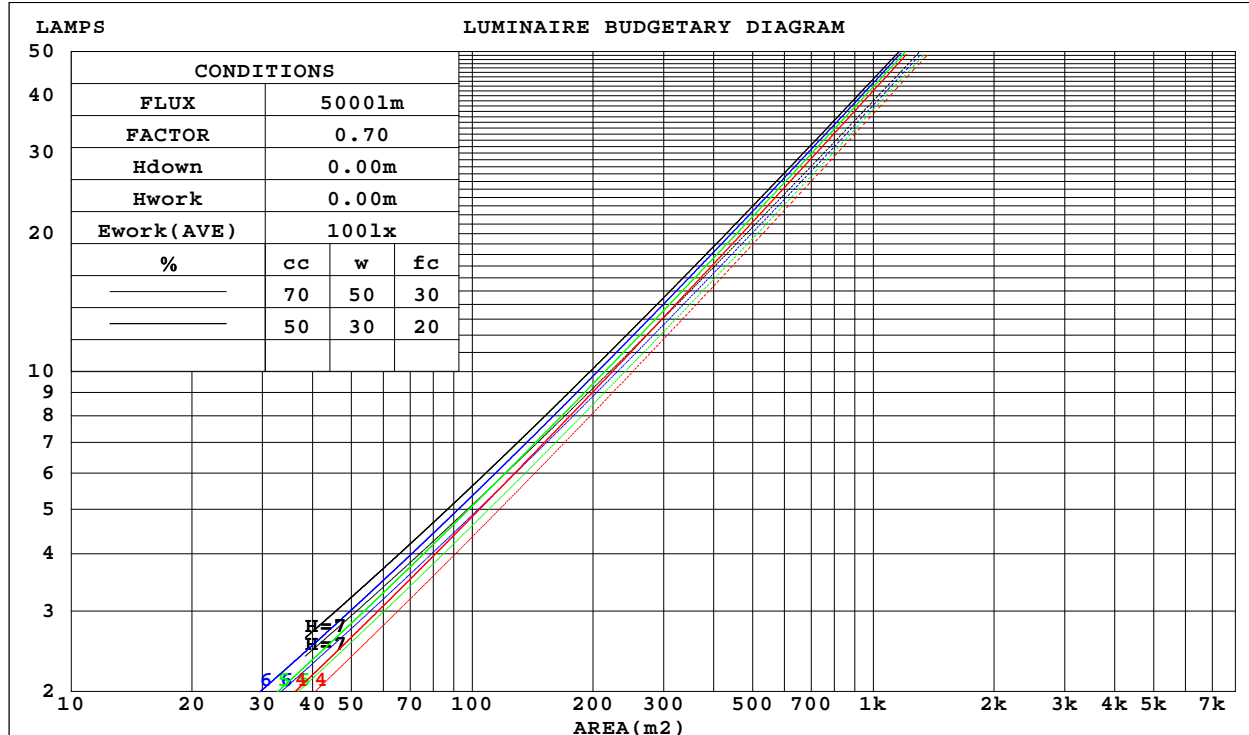
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
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Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |

| cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | Coefficients of Utilization(CU) | | | | | | | | | | | | |
| 0.0 | .81 | .81 | .81 | .79 | .79 | .79 | .76 | .76 | .76 | .73 | .73 | .73 | .70 | .70 | .70 | .68 |
| 1.0 | .76 | .75 | .74 | .75 | .74 | .72 | .72 | .71 | .70 | .70 | .69 | .68 | .67 | .67 | .66 | .65 |
| 2.0 | .72 | .70 | .68 | .71 | .69 | .67 | .69 | .67 | .65 | .67 | .65 | .64 | .65 | .64 | .63 | .62 |
| 3.0 | .68 | .65 | .63 | .67 | .65 | .63 | .66 | .63 | .62 | .64 | .62 | .61 | .62 | .61 | .60 | .59 |
| 4.0 | .65 | .62 | .59 | .64 | .61 | .59 | .63 | .60 | .58 | .61 | .59 | .57 | .60 | .58 | .57 | .56 |
| 5.0 | .62 | .58 | .56 | .61 | .58 | .55 | .60 | .57 | .55 | .59 | .56 | .55 | .58 | .56 | .54 | .53 |
| 6.0 | .59 | .55 | .53 | .58 | .55 | .53 | .57 | .54 | .52 | .56 | .54 | .52 | .55 | .53 | .52 | .51 |
| 7.0 | .56 | .53 | .50 | .56 | .52 | .50 | .55 | .52 | .50 | .54 | .51 | .49 | .53 | .51 | .49 | .48 |
| 8.0 | .53 | .50 | .48 | .53 | .50 | .48 | .52 | .50 | .47 | .52 | .49 | .47 | .51 | .49 | .47 | .46 |
| 9.0 | .51 | .48 | .46 | .51 | .48 | .45 | .50 | .47 | .45 | .50 | .47 | .45 | .49 | .47 | .45 | .44 |
| 10.0 | .49 | .46 | .44 | .49 | .46 | .43 | .48 | .45 | .43 | .48 | .45 | .43 | .47 | .45 | .43 | .42 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

WEC AND CCEC

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | 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 | .106 | .060 | .019 | .101 | .058 | .018 | .093 | .053 | .017 | .085 | .049 | .016 | .078 | .045 | .015 | |
| 2.0 | .100 | .055 | .017 | .096 | .053 | .016 | .089 | .049 | .015 | .082 | .046 | .014 | .076 | .043 | .014 | |
| 3.0 | .094 | .050 | .015 | .091 | .049 | .015 | .085 | .046 | .014 | .079 | .044 | .013 | .074 | .041 | .013 | |
| 4.0 | .089 | .046 | .014 | .087 | .045 | .013 | .081 | .043 | .013 | .077 | .041 | .012 | .072 | .039 | .012 | |
| 5.0 | .085 | .043 | .013 | .083 | .042 | .012 | .078 | .041 | .012 | .074 | .039 | .012 | .070 | .038 | .011 | |
| 6.0 | .081 | .041 | .012 | .079 | .040 | .011 | .075 | .039 | .011 | .072 | .037 | .011 | .068 | .036 | .011 | |
| 7.0 | .077 | .038 | .011 | .076 | .038 | .011 | .072 | .037 | .011 | .069 | .035 | .010 | .066 | .034 | .010 | |
| 8.0 | .074 | .036 | .010 | .073 | .036 | .010 | .070 | .035 | .010 | .067 | .034 | .010 | .064 | .033 | .010 | |
| 9.0 | .071 | .034 | .010 | .070 | .034 | .010 | .067 | .033 | .009 | .065 | .032 | .009 | .062 | .032 | .009 | |
| 10.0 | .069 | .033 | .009 | .067 | .033 | .009 | .065 | .032 | .009 | .063 | .031 | .009 | .061 | .030 | .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 | .130 | .130 | .130 | .111 | .111 | .111 | .076 | .076 | .076 | .044 | .044 | .044 | .014 | .014 | .014 | |
| 1.0 | .116 | .107 | .100 | .099 | .092 | .086 | .068 | .063 | .060 | .039 | .037 | .035 | .012 | .012 | .011 | |
| 2.0 | .104 | .090 | .079 | .089 | .078 | .068 | .061 | .054 | .048 | .035 | .031 | .028 | .011 | .010 | .009 | |
| 3.0 | .095 | .077 | .063 | .081 | .067 | .055 | .056 | .046 | .039 | .032 | .027 | .023 | .010 | .009 | .007 | |
| 4.0 | .087 | .067 | .052 | .075 | .058 | .045 | .051 | .040 | .032 | .030 | .024 | .019 | .010 | .008 | .006 | |
| 5.0 | .081 | .059 | .043 | .069 | .051 | .037 | .048 | .036 | .026 | .028 | .021 | .016 | .009 | .007 | .005 | |
| 6.0 | .075 | .052 | .036 | .065 | .045 | .031 | .045 | .032 | .022 | .026 | .019 | .013 | .008 | .006 | .004 | |
| 7.0 | .070 | .047 | .031 | .061 | .041 | .027 | .042 | .029 | .019 | .024 | .017 | .011 | .008 | .006 | .004 | |
| 8.0 | .066 | .043 | .026 | .057 | .037 | .023 | .040 | .026 | .016 | .023 | .015 | .010 | .007 | .005 | .003 | |
| 9.0 | .063 | .039 | .023 | .054 | .034 | .020 | .037 | .024 | .014 | .022 | .014 | .008 | .007 | .005 | .003 | |
| 10.0 | .060 | .036 | .020 | .051 | .031 | .017 | .036 | .022 | .012 | .021 | .013 | .007 | .007 | .004 | .002 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|---------------|------------------|------|------|------|--------------------|----------------|-----------------------|------|------|------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | | | | | | | | | | |
| NAME: 2218.144-LEA-14 | | | | | | TYPE: | | WEIGHT: | | | |
| SPEC.:3000K | | | | | | DIM.: | | SERIAL No.:2303130270 | | | |
| MFR.: RISE | | | | | | SUR.:0.003737385m2 | | 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 | 12.2 | 13.0 | 12.4 | 13.2 | 13.3 | 12.7 | 13.5 | 12.9 | 13.7 | 13.8 | |
| | 3H | 12.1 | 12.8 | 12.3 | 13.0 | 13.2 | 12.6 | 13.3 | 12.8 | 13.5 | 13.7 |
| | 4H | 12.0 | 12.7 | 12.2 | 12.9 | 13.1 | 12.5 | 13.2 | 12.7 | 13.4 | 13.6 |
| | 6H | 11.9 | 12.5 | 12.2 | 12.8 | 13.0 | 12.4 | 13.0 | 12.7 | 13.3 | 13.5 |
| | 8H | 11.9 | 12.5 | 12.2 | 12.7 | 13.0 | 12.4 | 13.0 | 12.7 | 13.2 | 13.5 |
| | 12H | 11.8 | 12.4 | 12.1 | 12.7 | 12.9 | 12.3 | 12.9 | 12.6 | 13.2 | 13.4 |
| 4H | 2H | 12.0 | 12.7 | 12.2 | 12.9 | 13.1 | 12.5 | 13.2 | 12.7 | 13.4 | 13.6 |
| | 3H | 11.8 | 12.4 | 12.1 | 12.7 | 12.9 | 12.3 | 12.9 | 12.6 | 13.2 | 13.4 |
| | 4H | 11.7 | 12.3 | 12.1 | 12.6 | 12.9 | 12.2 | 12.8 | 12.6 | 13.1 | 13.4 |
| | 6H | 11.6 | 12.1 | 12.0 | 12.4 | 12.8 | 12.1 | 12.6 | 12.5 | 12.9 | 13.3 |
| | 8H | 11.6 | 12.0 | 12.0 | 12.4 | 12.7 | 12.1 | 12.5 | 12.5 | 12.9 | 13.2 |
| | 12H | 11.5 | 11.9 | 11.9 | 12.3 | 12.7 | 12.0 | 12.4 | 12.4 | 12.8 | 13.2 |
| 8H | 4H | 11.6 | 12.0 | 12.0 | 12.4 | 12.7 | 12.1 | 12.5 | 12.5 | 12.9 | 13.2 |
| | 6H | 11.5 | 11.8 | 11.9 | 12.2 | 12.6 | 12.0 | 12.3 | 12.4 | 12.7 | 13.1 |
| | 8H | 11.4 | 11.7 | 11.8 | 12.1 | 12.6 | 11.9 | 12.2 | 12.3 | 12.6 | 13.1 |
| | 12H | 11.3 | 11.6 | 11.8 | 12.1 | 12.5 | 11.8 | 12.1 | 12.3 | 12.6 | 13.0 |
| 12H | 4H | 11.5 | 11.9 | 11.9 | 12.3 | 12.7 | 12.0 | 12.4 | 12.4 | 12.8 | 13.2 |
| | 6H | 11.4 | 11.7 | 11.8 | 12.1 | 12.6 | 11.9 | 12.2 | 12.3 | 12.6 | 13.1 |
| | 8H | 11.3 | 11.6 | 11.8 | 12.1 | 12.5 | 11.8 | 12.1 | 12.3 | 12.6 | 13.0 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | + 4.9 / -12.1 | | | | | + 4.9 / -12.7 | | | | | |
| 1.5H | + 7.4 / - 9.9 | | | | | + 7.4 / -10.9 | | | | | |
| 2.0H | + 5.9 / - 5.9 | | | | | + 6.6 / - 6.4 | | | | | |

CIE Pub.117, 1749 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.9$)
Area: 0.00373738 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

UTILIZATION FACTORS TABLE

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |

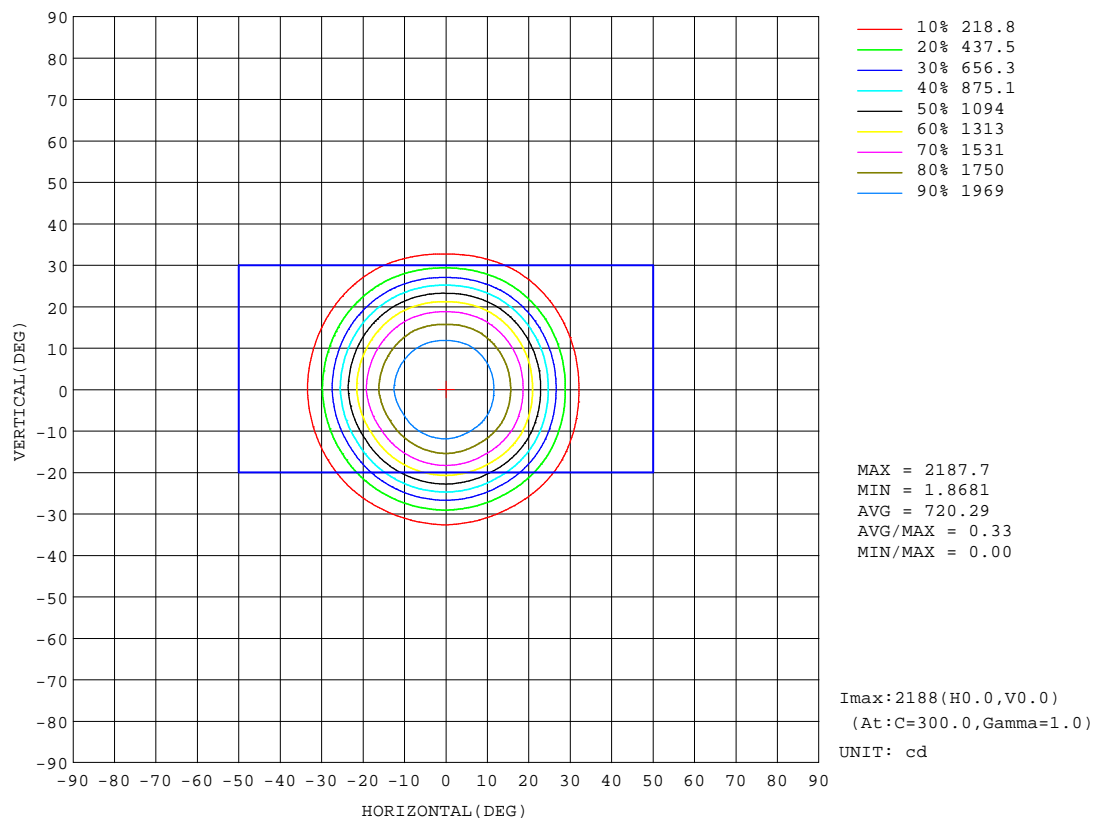
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 62 | 58 | 56 | 62 | 58 | 56 | 61 | 58 | 56 | 53 |
| 0.80 | 67 | 63 | 61 | 66 | 63 | 61 | 66 | 63 | 61 | 58 |
| 1.00 | 69 | 66 | 64 | 69 | 66 | 64 | 68 | 65 | 63 | 61 |
| 1.25 | 72 | 69 | 66 | 71 | 68 | 66 | 70 | 67 | 66 | 63 |
| 1.50 | 73 | 71 | 68 | 73 | 70 | 68 | 71 | 69 | 67 | 65 |
| 2.00 | 75 | 72 | 70 | 74 | 72 | 70 | 72 | 70 | 69 | 65 |
| 2.50 | 76 | 74 | 72 | 75 | 73 | 71 | 73 | 71 | 70 | 66 |
| 3.00 | 77 | 75 | 73 | 76 | 74 | 72 | 73 | 72 | 71 | 67 |
| 4.00 | 78 | 76 | 75 | 77 | 75 | 74 | 74 | 73 | 72 | 68 |
| 5.00 | 79 | 78 | 76 | 77 | 76 | 75 | 75 | 74 | 73 | 68 |
| 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:25.3DEG
 Operators:Zoe
 Test Date:2023-03-13

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:3.160m [K=1.0000]
 Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
 LENS:PM-1082B 36R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

ISOCANDELA DIAGRAM

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |



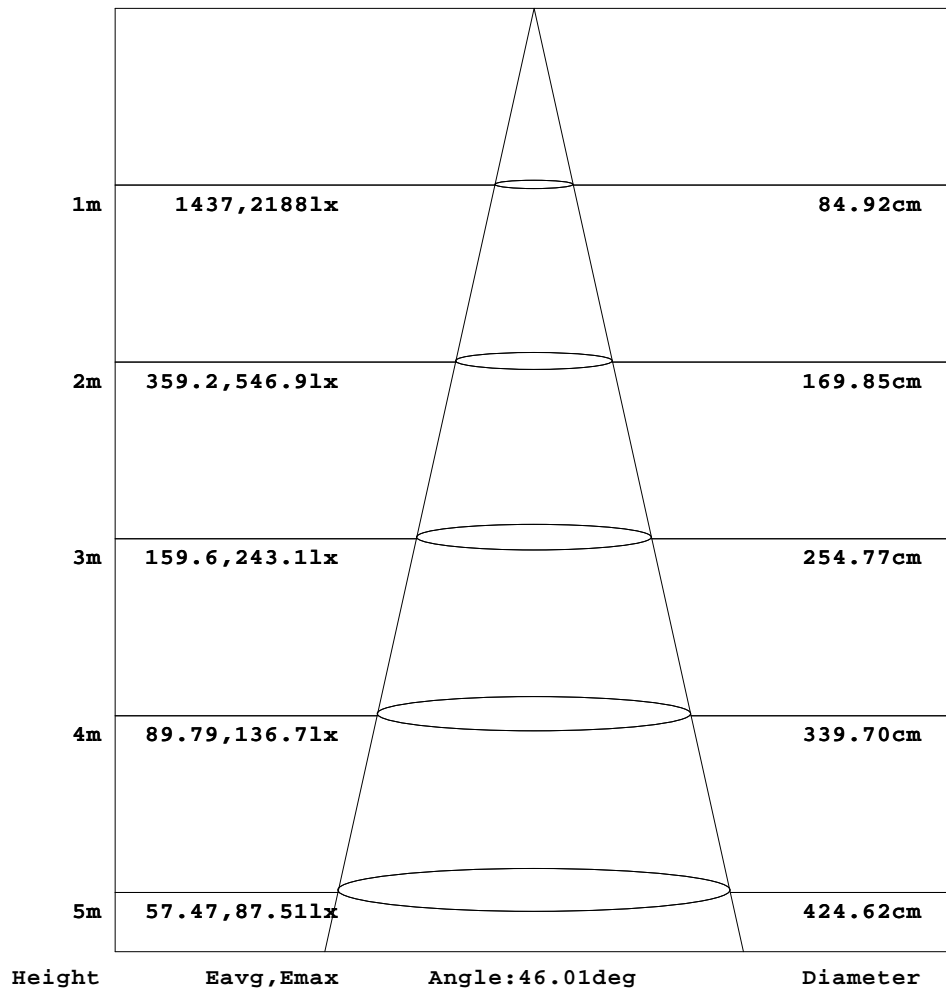
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

AAI Figure

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |

Flux out:894.7 lm



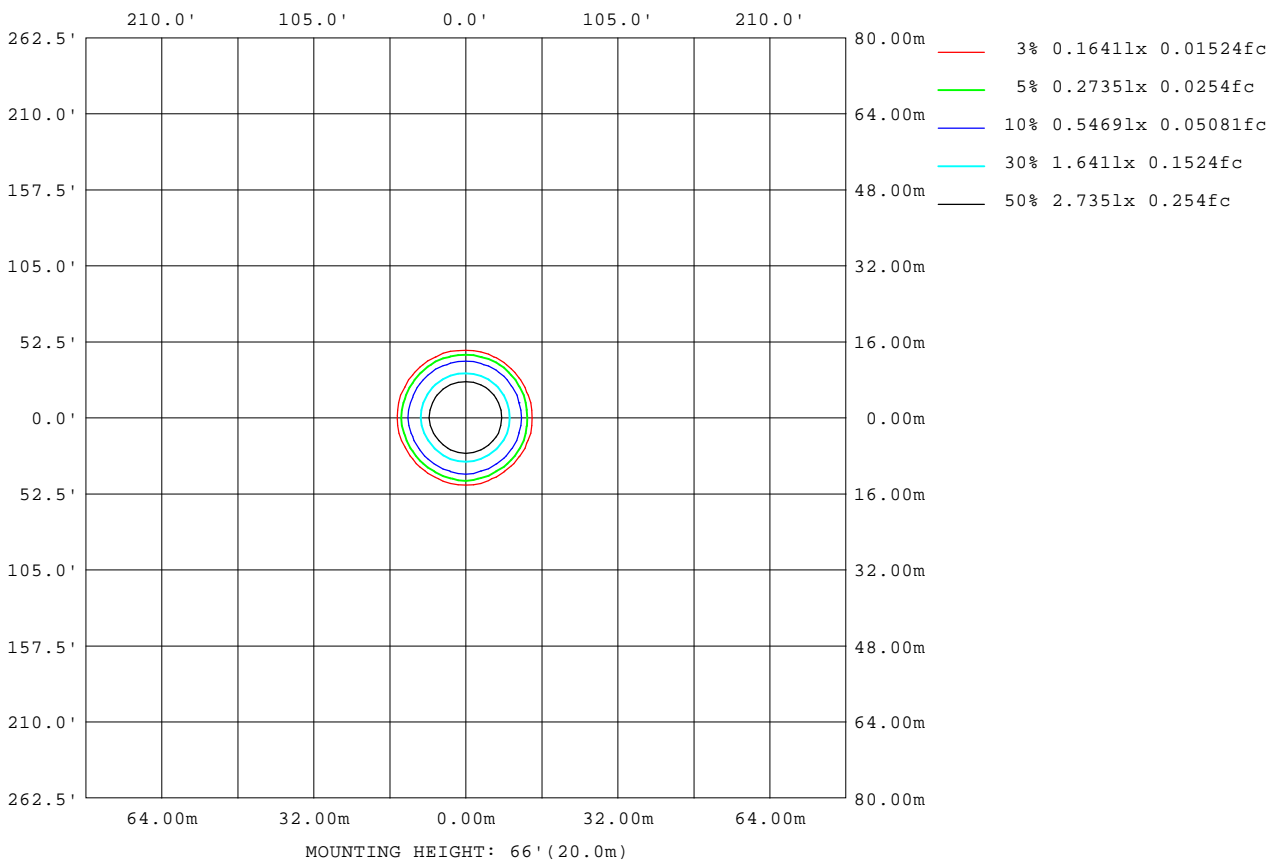
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |

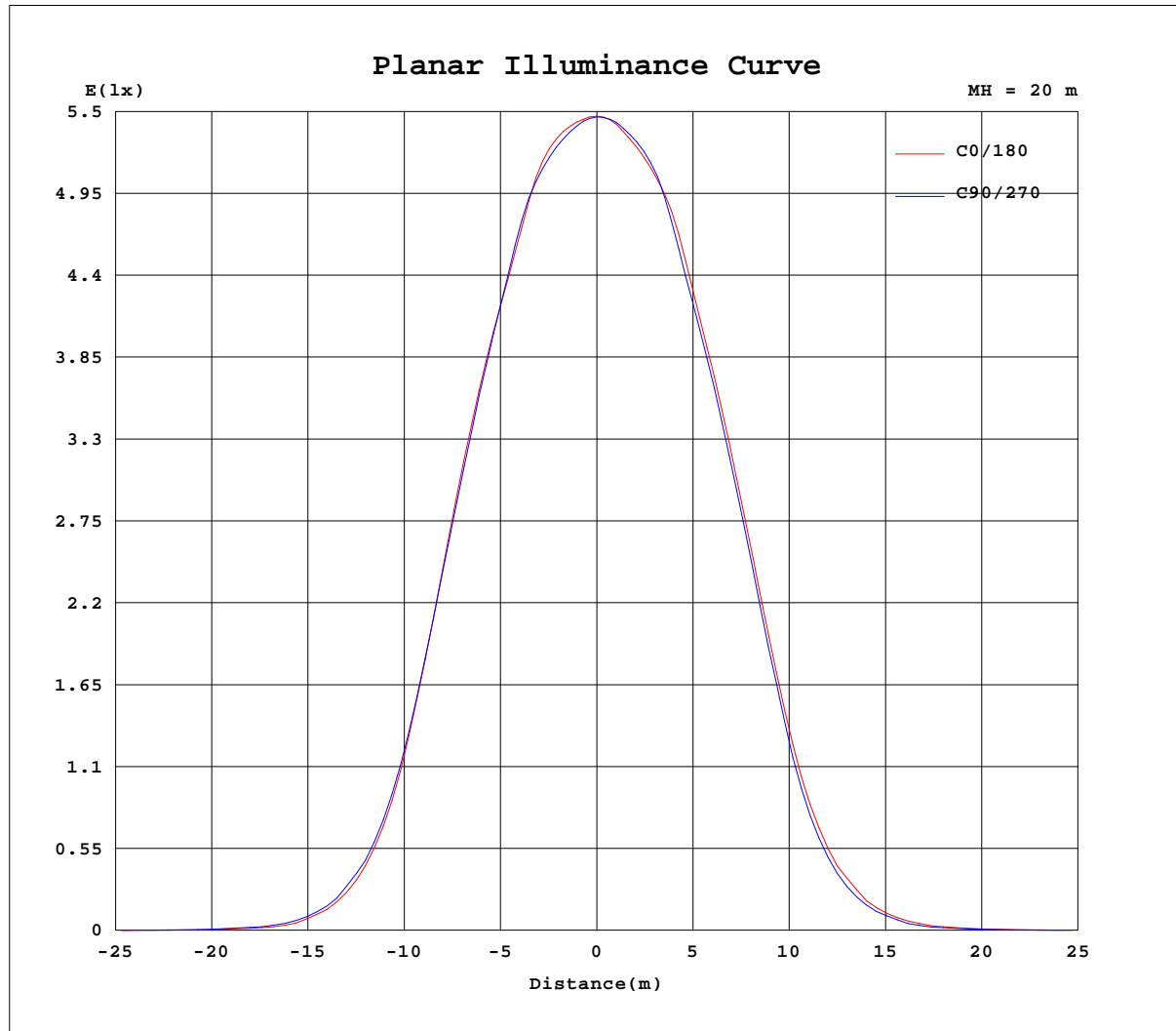
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 445 |
| L_0~180(75)av | 230 |
| L_0~180(85)av | 210 |
| L_90~270(65)av | 428 |
| L_90~270(75)av | 223 |
| L_90~270(85)av | 171 |
| L_45(65)av | 428 |
| L_45(75)av | 215 |
| L_45(85)av | 150 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-13

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-03-13

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRE-30G1000-A-83 Ra:90
 LENS: PM-1082B 36R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|--------------------|-----------------------|
| Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm | | |
| NAME: 2218.144-LEA-14 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2303130270 |
| MFR.: RISE | SUR.:0.003737385m2 | Shielding Angle: |

Table--1

UNIT: cd

| C(DEC) (DEC) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | 2186 | | | | | | |
| 5 | 2170 | 2165 | 2157 | 2151 | 2142 | 2139 | 2148 | 2152 | 2159 | 2162 | 2170 | 2172 | | | | | | |
| 10 | 2050 | 2060 | 2054 | 2061 | 2055 | 2049 | 2071 | 2071 | 2073 | 2063 | 2071 | 2064 | | | | | | |
| 15 | 1786 | 1787 | 1764 | 1779 | 1770 | 1777 | 1824 | 1812 | 1814 | 1790 | 1806 | 1796 | | | | | | |
| 20 | 1406 | 1411 | 1369 | 1386 | 1376 | 1382 | 1462 | 1455 | 1455 | 1425 | 1444 | 1426 | | | | | | |
| 25 | 838 | 844 | 820 | 847 | 841 | 845 | 933 | 925 | 919 | 894 | 899 | 867 | | | | | | |
| 30 | 343 | 354 | 343 | 368 | 360 | 373 | 423 | 414 | 408 | 382 | 389 | 363 | | | | | | |
| 35 | 104 | 110 | 110 | 122 | 120 | 127 | 147 | 144 | 139 | 125 | 126 | 114 | | | | | | |
| 40 | 23.8 | 25.4 | 27.1 | 32.1 | 33.3 | 36.0 | 41.3 | 39.0 | 36.2 | 29.9 | 28.8 | 25.7 | | | | | | |
| 45 | 9.00 | 9.23 | 9.78 | 11.2 | 12.0 | 12.3 | 13.3 | 12.7 | 11.7 | 10.3 | 10.0 | 9.22 | | | | | | |
| 50 | 3.65 | 3.72 | 3.81 | 4.31 | 4.59 | 4.92 | 5.18 | 4.85 | 4.42 | 4.10 | 3.96 | 3.79 | | | | | | |
| 55 | 2.00 | 1.99 | 1.97 | 2.23 | 2.40 | 2.54 | 2.74 | 2.51 | 2.34 | 2.26 | 2.16 | 2.10 | | | | | | |
| 60 | 1.04 | 1.01 | 1.04 | 1.21 | 1.34 | 1.45 | 1.54 | 1.42 | 1.31 | 1.27 | 1.27 | 1.15 | | | | | | |
| 65 | 0.59 | 0.54 | 0.56 | 0.65 | 0.73 | 0.79 | 0.82 | 0.74 | 0.68 | 0.70 | 0.71 | 0.66 | | | | | | |
| 70 | 0.33 | 0.29 | 0.30 | 0.36 | 0.41 | 0.44 | 0.45 | 0.40 | 0.37 | 0.40 | 0.41 | 0.38 | | | | | | |
| 75 | 0.18 | 0.16 | 0.16 | 0.21 | 0.23 | 0.25 | 0.26 | 0.22 | 0.20 | 0.23 | 0.24 | 0.21 | | | | | | |
| 80 | 0.10 | 0.08 | 0.09 | 0.12 | 0.13 | 0.14 | 0.15 | 0.12 | 0.11 | 0.13 | 0.13 | 0.12 | | | | | | |
| 85 | 0.05 | 0.04 | 0.04 | 0.06 | 0.06 | 0.06 | 0.09 | 0.06 | 0.05 | 0.05 | 0.04 | 0.05 | | | | | | |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 100 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

C Range: 0 - 360DEG
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Operators:Zoe
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