

Luminaire Photograph



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 67.8% | |
| Luminaire Power: | 11.86 W | |
| SHR Nominal: | 0.75 | Calculated using the TM5 |
| SHR Maximum: | 0.80 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-9-24

g Range: 0 - 180DEG
g 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: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

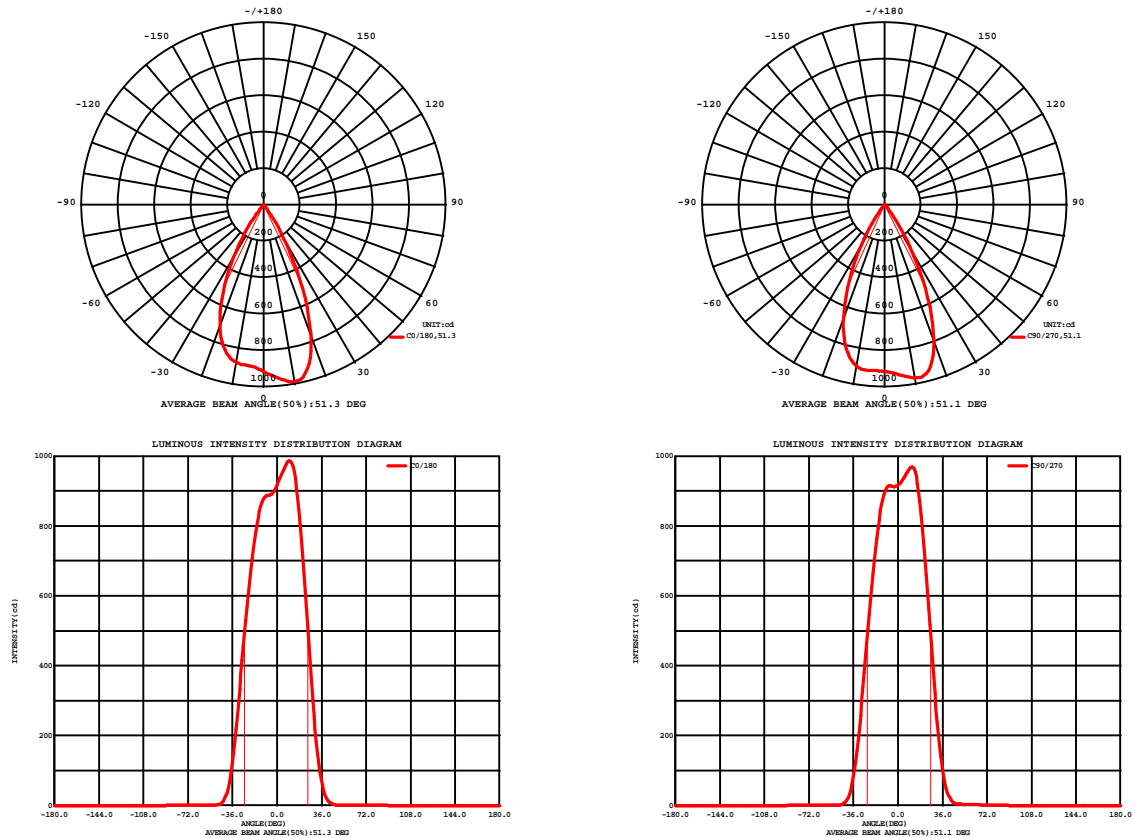


Fig. C0/C180

Fig. C90/C270

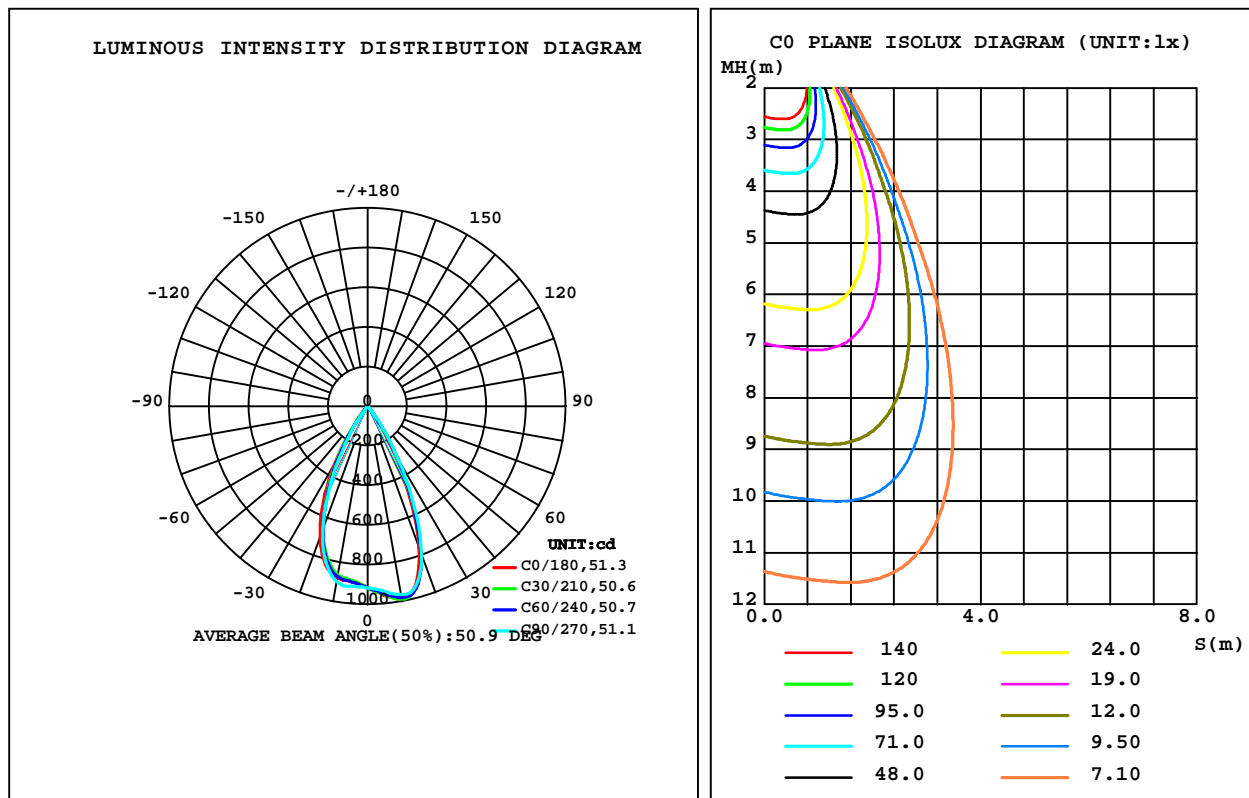
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 55.28 lm/W | | | |
|------------------|---------|----------------------------------|--------|-------------------|----------|
| MODEL | CREE | I _{max} (cd) | 989.7 | S/MH(C0/180) | 0.81 |
| NOMINAL POWER(W) | 12 | LOR(%) | 67.8 | S/MH(C90/270) | 0.76 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 655.87 | h UP,DN(C0-180) | 0.0,35.6 |
| NOMINAL FLUX(lm) | 967.126 | CIE CLASS | DIRECT | h UP,DN(C180-360) | 0.0,32.2 |
| LAMPS INSIDE | 1 | h up(%) | 0.0 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 220 | h down(%) | 67.8 | CIBSE SHR MAX | 0.80 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

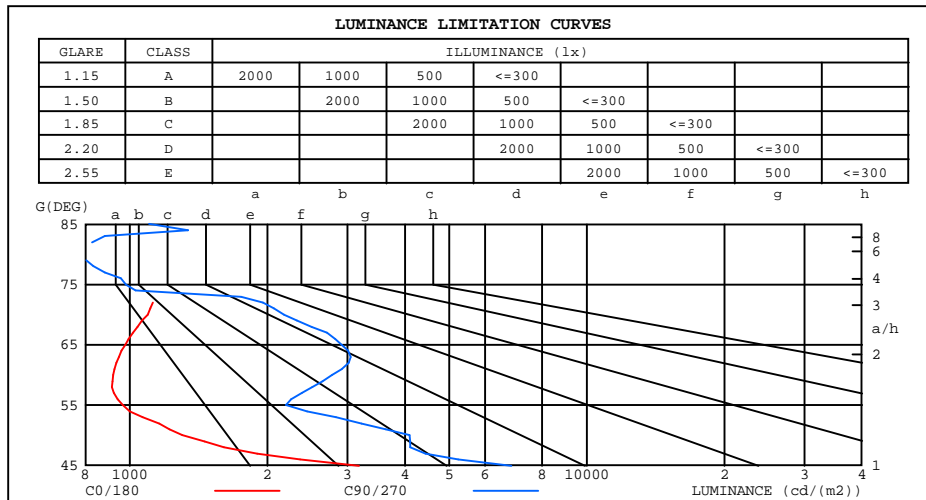
| g | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | g | F zone | F total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-----------|
| 10 | 985.7 | 983.9 | 965.6 | 924.3 | 880.0 | 869.3 | 899.6 | 954.9 | 0- 10 | 88.56 | 88.56 | 13.5,9.16 |
| 20 | 760.9 | 789.0 | 794.3 | 760.3 | 704.9 | 658.5 | 664.1 | 709.5 | 10- 20 | 241.8 | 330.3 | 50.4,34.2 |
| 30 | 255.0 | 295.8 | 320.5 | 342.6 | 332.6 | 298.0 | 257.0 | 263.7 | 20- 30 | 232.1 | 562.4 | 85.7,58.2 |
| 40 | 20.91 | 35.03 | 36.53 | 45.03 | 35.70 | 35.39 | 21.40 | 26.07 | 30- 40 | 83.15 | 645.5 | 98.4,66.7 |
| 50 | 1.341 | 2.202 | 4.212 | 2.453 | 1.515 | 1.707 | 1.075 | 1.402 | 40- 50 | 7.790 | 653.3 | 99.6,67.6 |
| 60 | 0.7358 | 1.101 | 2.216 | 1.233 | 0.7950 | 0.8228 | 0.7023 | 0.7682 | 50- 60 | 1.136 | 654.5 | 99.8,67.7 |
| 70 | 0.5988 | 0.7448 | 1.191 | 0.7894 | 0.6205 | 0.7719 | 0.8512 | 0.7143 | 60- 70 | 0.9253 | 655.4 | 99.9,67.8 |
| 80 | 0.0611 | 0.1568 | 0.2192 | 0.1749 | 0.0665 | 0.0543 | 0.0438 | 0.0451 | 70- 80 | 0.4016 | 655.8 | 100,67.8 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 0.0687 | 655.9 | 100,67.8 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 655.9 | 100,67.8 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 655.9 | 100,67.8 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 655.9 | 100,67.8 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 655.9 | 100,67.8 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 655.9 | 100,67.8 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 655.9 | 100,67.8 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 655.9 | 100,67.8 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 655.9 | 100,67.8 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 655.9 | 100,67.8 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(180) | C0/180 | C90/270 |
| 85 | 219 | 1104 |
| 80 | 220 | 789 |
| 75 | 238 | 981 |
| 70 | 1095 | 2177 |
| 65 | 979 | 2915 |
| 60 | 920 | 2771 |
| 55 | 967 | 2202 |
| 50 | 1304 | 4096 |
| 45 | 3174 | 6847 |

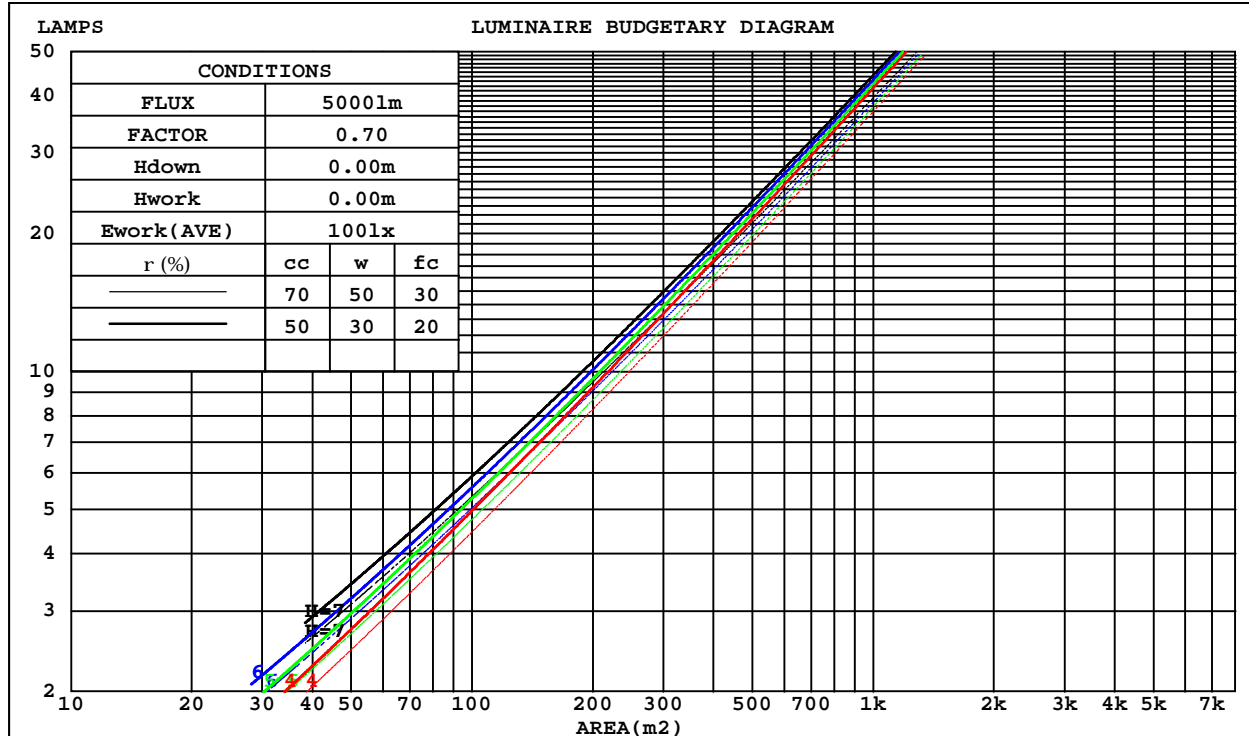
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C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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G Range: 0 - 180DEG
G Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
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| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

| rcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| rw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | .81 | .81 | .81 | .79 | .79 | .79 | .75 | .75 | .75 | .72 | .72 | .72 | .69 | .69 | .69 | .68 |
| 1.0 | .76 | .74 | .73 | .74 | .73 | .72 | .71 | .70 | .69 | .69 | .68 | .67 | .67 | .66 | .65 | .64 |
| 2.0 | .71 | .69 | .67 | .70 | .68 | .66 | .68 | .66 | .64 | .66 | .64 | .63 | .64 | .63 | .62 | .61 |
| 3.0 | .67 | .64 | .61 | .66 | .63 | .61 | .64 | .62 | .60 | .63 | .61 | .59 | .61 | .60 | .58 | .57 |
| 4.0 | .63 | .60 | .57 | .62 | .59 | .57 | .61 | .58 | .56 | .60 | .57 | .56 | .58 | .57 | .55 | .54 |
| 5.0 | .60 | .56 | .54 | .59 | .56 | .53 | .58 | .55 | .53 | .57 | .54 | .52 | .56 | .54 | .52 | .51 |
| 6.0 | .57 | .53 | .50 | .56 | .53 | .50 | .55 | .52 | .50 | .54 | .52 | .50 | .53 | .51 | .49 | .48 |
| 7.0 | .54 | .50 | .48 | .53 | .50 | .47 | .53 | .49 | .47 | .52 | .49 | .47 | .51 | .49 | .47 | .46 |
| 8.0 | .51 | .48 | .45 | .51 | .47 | .45 | .50 | .47 | .45 | .49 | .47 | .45 | .49 | .46 | .44 | .44 |
| 9.0 | .49 | .45 | .43 | .48 | .45 | .43 | .48 | .45 | .42 | .47 | .44 | .42 | .47 | .44 | .42 | .41 |
| 10.0 | .46 | .43 | .41 | .46 | .43 | .41 | .46 | .43 | .40 | .45 | .42 | .40 | .45 | .42 | .40 | .39 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

WEC AND CCEC

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

| rcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| rw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| rfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC) | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .110 | .063 | .020 | .106 | .060 | .019 | .097 | .056 | .018 | .090 | .052 | .017 | .082 | .048 | .015 | |
| 2.0 | .105 | .057 | .018 | .101 | .056 | .017 | .094 | .052 | .016 | .087 | .049 | .015 | .081 | .046 | .014 | |
| 3.0 | .099 | .053 | .016 | .096 | .051 | .015 | .090 | .049 | .015 | .084 | .046 | .014 | .079 | .044 | .014 | |
| 4.0 | .094 | .049 | .014 | .091 | .048 | .014 | .086 | .046 | .014 | .082 | .044 | .013 | .077 | .042 | .013 | |
| 5.0 | .090 | .046 | .013 | .087 | .045 | .013 | .083 | .043 | .013 | .079 | .042 | .012 | .075 | .040 | .012 | |
| 6.0 | .086 | .043 | .012 | .084 | .042 | .012 | .080 | .041 | .012 | .076 | .040 | .012 | .073 | .038 | .011 | |
| 7.0 | .082 | .041 | .012 | .080 | .040 | .011 | .077 | .039 | .011 | .074 | .038 | .011 | .071 | .037 | .011 | |
| 8.0 | .079 | .038 | .011 | .077 | .038 | .011 | .074 | .037 | .011 | .071 | .036 | .010 | .068 | .035 | .010 | |
| 9.0 | .076 | .037 | .010 | .074 | .036 | .010 | .071 | .035 | .010 | .069 | .035 | .010 | .066 | .034 | .010 | |
| 10.0 | .073 | .035 | .010 | .071 | .035 | .010 | .069 | .034 | .010 | .067 | .033 | .009 | .064 | .032 | .009 | |

| rcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|
| rw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| rfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .129 | .129 | .129 | .110 | .110 | .110 | .075 | .075 | .075 | .043 | .043 | .043 | .014 | .014 | .014 | |
| 1.0 | .115 | .107 | .099 | .099 | .092 | .085 | .068 | .063 | .059 | .039 | .036 | .034 | .012 | .012 | .011 | |
| 2.0 | .104 | .090 | .078 | .089 | .077 | .067 | .061 | .054 | .047 | .035 | .031 | .027 | .011 | .010 | .009 | |
| 3.0 | .095 | .077 | .062 | .082 | .066 | .054 | .056 | .046 | .038 | .032 | .027 | .022 | .010 | .009 | .007 | |
| 4.0 | .088 | .067 | .051 | .075 | .058 | .044 | .052 | .040 | .031 | .030 | .024 | .018 | .010 | .008 | .006 | |
| 5.0 | .082 | .059 | .042 | .070 | .051 | .036 | .048 | .036 | .026 | .028 | .021 | .015 | .009 | .007 | .005 | |
| 6.0 | .076 | .052 | .035 | .066 | .045 | .031 | .045 | .032 | .022 | .026 | .019 | .013 | .008 | .006 | .004 | |
| 7.0 | .072 | .047 | .030 | .062 | .041 | .026 | .043 | .029 | .018 | .025 | .017 | .011 | .008 | .006 | .004 | |
| 8.0 | .068 | .043 | .025 | .059 | .037 | .022 | .040 | .026 | .016 | .024 | .015 | .009 | .008 | .005 | .003 | |
| 9.0 | .065 | .039 | .022 | .056 | .034 | .019 | .039 | .024 | .014 | .022 | .014 | .008 | .007 | .005 | .003 | |
| 10.0 | .061 | .036 | .019 | .053 | .031 | .017 | .037 | .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:2022-9-24

g Range: 0 - 180DEG
g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|----------------------------------------------------------------------------------|------------------|------|------|------|---------------|----------------|------|-----------------------|------|------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | | | | | | | | | |
| NAME: 2218.118-ACOT-97 | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.:3000K | | | | | DIM.: | | | SERIAL No.:2209240949 | | |
| MFR.: RISE | | | | | SUR.:0.0016m2 | | | 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 | 16.4 | 17.3 | 16.6 | 17.4 | 17.6 | 17.9 | 18.7 | 18.1 | 18.9 | 19.1 |
| 3H | 16.3 | 17.0 | 16.5 | 17.2 | 17.4 | 17.7 | 18.5 | 18.0 | 18.7 | 18.9 |
| 4H | 16.2 | 16.9 | 16.4 | 17.1 | 17.3 | 17.7 | 18.4 | 17.9 | 18.6 | 18.8 |
| 6H | 16.1 | 16.8 | 16.4 | 17.0 | 17.3 | 17.6 | 18.3 | 17.9 | 18.5 | 18.8 |
| 8H | 16.0 | 16.7 | 16.3 | 17.0 | 17.2 | 17.5 | 18.2 | 17.8 | 18.5 | 18.7 |
| 12H | 16.0 | 16.6 | 16.3 | 16.9 | 17.2 | 17.5 | 18.1 | 17.8 | 18.4 | 18.7 |
| 4H 2H | 16.2 | 16.9 | 16.4 | 17.1 | 17.3 | 17.6 | 18.4 | 17.9 | 18.6 | 18.8 |
| 3H | 16.0 | 16.6 | 16.3 | 16.9 | 17.2 | 17.5 | 18.1 | 17.8 | 18.4 | 18.7 |
| 4H | 15.9 | 16.5 | 16.3 | 16.8 | 17.1 | 17.4 | 18.0 | 17.8 | 18.3 | 18.6 |
| 6H | 15.8 | 16.3 | 16.2 | 16.7 | 17.0 | 17.3 | 17.8 | 17.7 | 18.2 | 18.5 |
| 8H | 15.8 | 16.2 | 16.2 | 16.6 | 17.0 | 17.3 | 17.7 | 17.7 | 18.1 | 18.5 |
| 12H | 15.7 | 16.1 | 16.1 | 16.5 | 16.9 | 17.2 | 17.7 | 17.6 | 18.0 | 18.4 |
| 8H 4H | 15.8 | 16.2 | 16.2 | 16.6 | 17.0 | 17.3 | 17.7 | 17.7 | 18.1 | 18.5 |
| 6H | 15.7 | 16.1 | 16.1 | 16.4 | 16.9 | 17.2 | 17.6 | 17.6 | 17.9 | 18.4 |
| 8H | 15.6 | 16.0 | 16.1 | 16.4 | 16.8 | 17.1 | 17.5 | 17.6 | 17.9 | 18.3 |
| 12H | 15.6 | 15.8 | 16.0 | 16.3 | 16.8 | 17.1 | 17.4 | 17.5 | 17.8 | 18.3 |
| 12H 4H | 15.7 | 16.2 | 16.1 | 16.5 | 16.9 | 17.2 | 17.6 | 17.6 | 18.0 | 18.4 |
| 6H | 15.6 | 16.0 | 16.1 | 16.4 | 16.8 | 17.1 | 17.4 | 17.6 | 17.9 | 18.3 |
| 8H | 15.6 | 15.8 | 16.0 | 16.3 | 16.8 | 17.1 | 17.3 | 17.5 | 17.8 | 18.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 4.2 / -12.2 | | | | | + 4.6 / -10.7 | | | | |
| 1.5H | + 6.9 / -11.2 | | | | | + 7.3 / -10.8 | | | | |
| 2.0H | + 4.3 / - 1.9 | | | | | + 4.4 / - 2.8 | | | | |

CIE Pub.117, 967.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.1)
Area: 0.0016 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

g Range: 0 - 180DEG
g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

UTILIZATION FACTORS TABLE

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

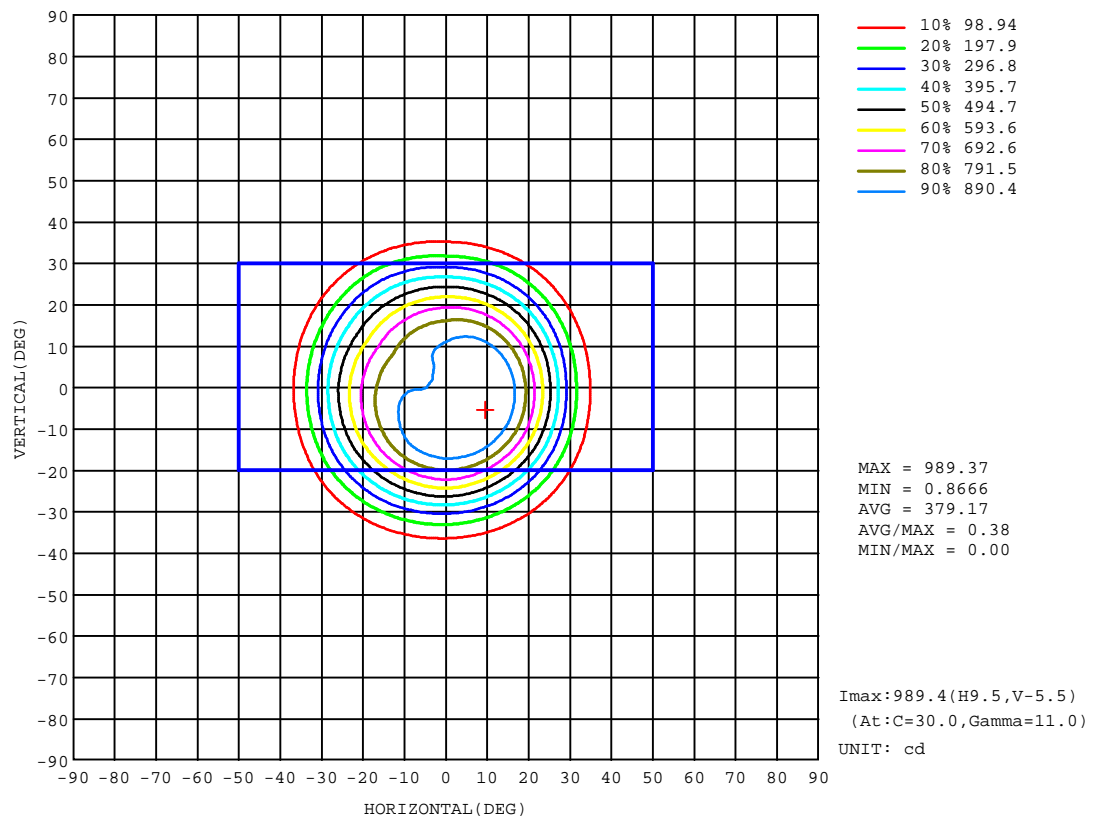
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 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 | 61 | 58 | 55 | 61 | 57 | 55 | 61 | 57 | 55 | 53 |
| 0.80 | 66 | 63 | 60 | 66 | 62 | 60 | 65 | 62 | 60 | 58 |
| 1.00 | 69 | 65 | 63 | 68 | 65 | 63 | 67 | 65 | 63 | 60 |
| 1.25 | 71 | 68 | 66 | 71 | 68 | 66 | 69 | 67 | 65 | 62 |
| 1.50 | 73 | 70 | 68 | 72 | 69 | 68 | 71 | 69 | 67 | 64 |
| 2.00 | 74 | 72 | 70 | 73 | 71 | 69 | 72 | 70 | 68 | 65 |
| 2.50 | 75 | 73 | 71 | 74 | 72 | 71 | 72 | 71 | 69 | 65 |
| 3.00 | 76 | 74 | 73 | 75 | 73 | 72 | 73 | 71 | 70 | 66 |
| 4.00 | 78 | 76 | 75 | 76 | 75 | 74 | 74 | 73 | 72 | 67 |
| 5.00 | 78 | 77 | 76 | 77 | 76 | 75 | 74 | 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:2022-9-24

g Range: 0 - 180DEG
 g 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:CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084C 50R
 DRIVER: KEDH010S0250NR12A1 250mA
 30minutes warm-up

ISOCANDELA DIAGRAM

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

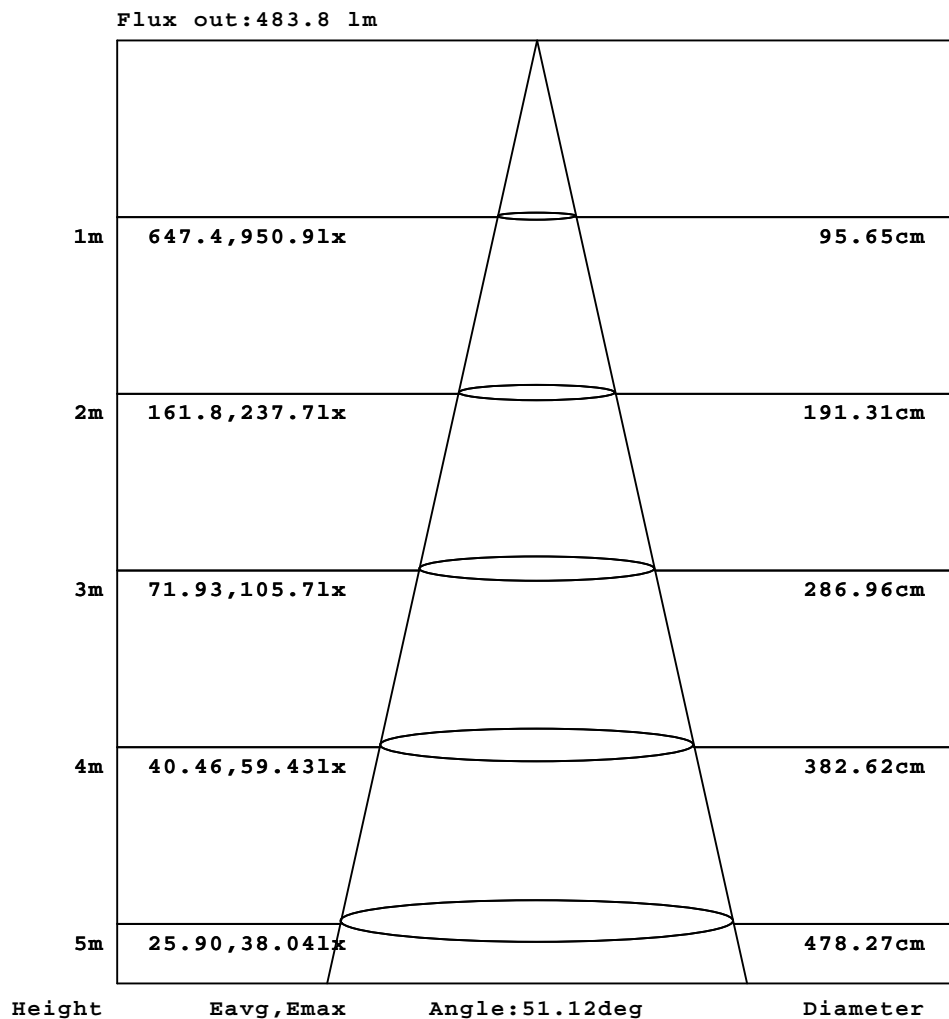


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

AAI Figure

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |



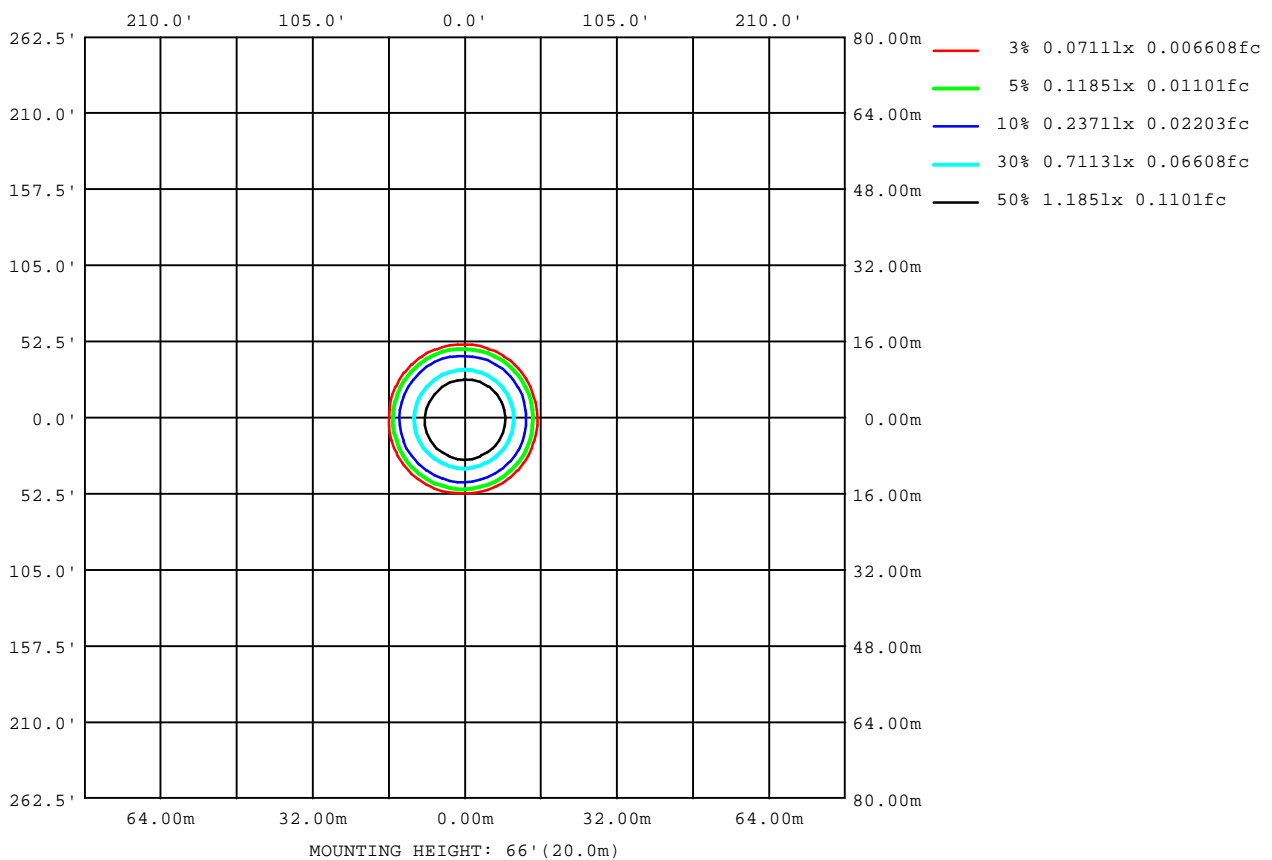
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-9-24

g 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: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

ISOLUX DIAGRAM

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

g Range: 0 - 180DEG
g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

LED Avg.L Report

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

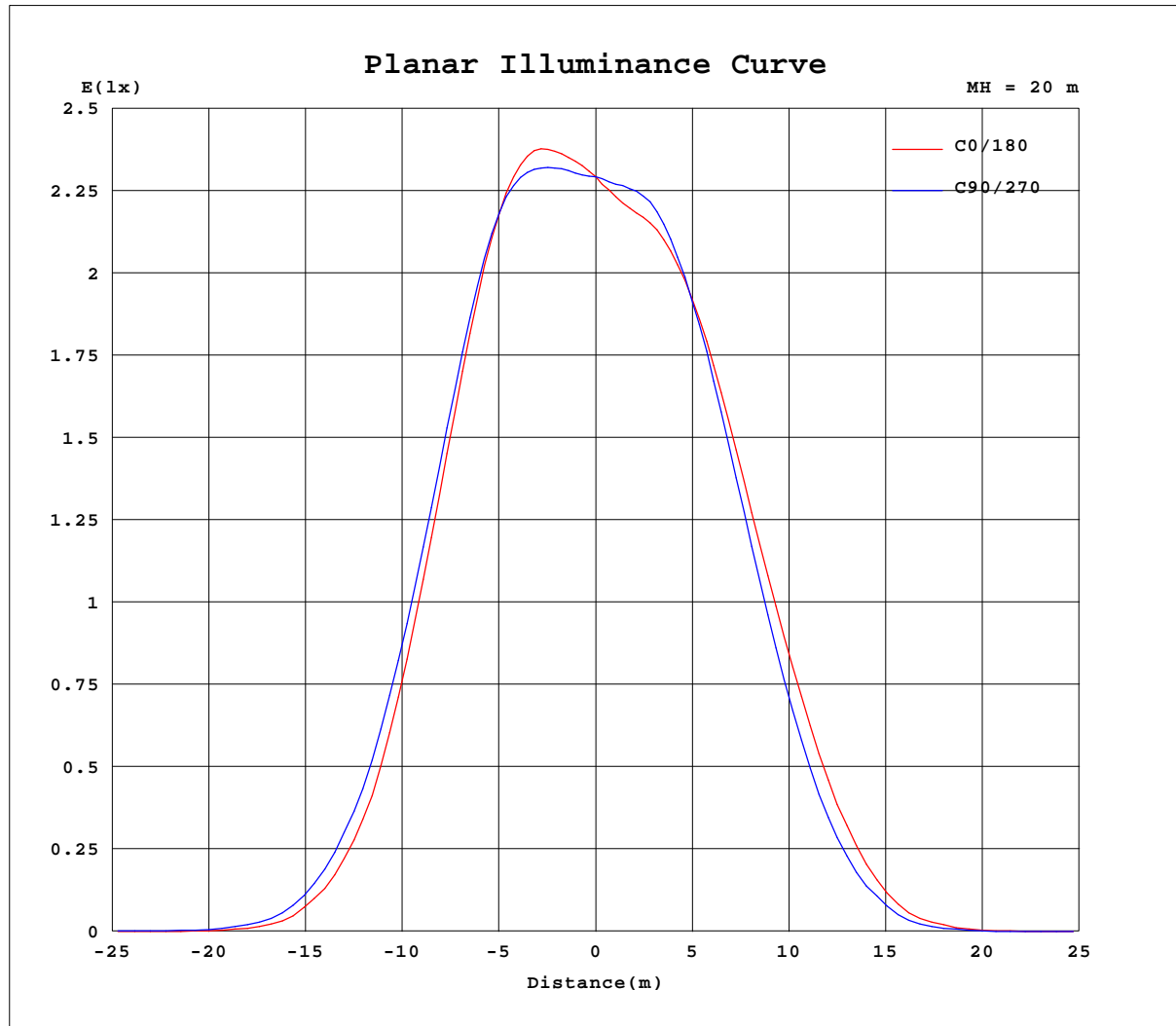
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 1000 |
| L_0~180(75)av | 278 |
| L_0~180(85)av | 237 |
| L_90~270(65)av | 2004 |
| L_90~270(75)av | 590 |
| L_90~270(85)av | 635 |
| L_45(65)av | 1344 |
| L_45(75)av | 1070 |
| L_45(85)av | 519 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

g 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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-9-24

deg Range: 0 - 180DEG
 deg 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: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084C 50R
 DRIVER: KEDH010S0250NR12A1 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|----------------------------------------------------------------------------------|---------------|-----------------------|
| Test:U:220.23V I:0.0580A P:11.864W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm | | |
| NAME: 2218.118-ACOT-97 | TYPE: | WEIGHT: |
| SPEC.:3000K | DIM.: | SERIAL No.:2209240949 |
| MFR.: RISE | SUR.:0.0016m2 | Shielding Angle: |

Table--1

UNIT: cd

| C(°) g (°) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 917 | 917 | 917 | 917 | 917 | 917 | 917 | 917 | 917 | 917 | 917 | 917 | | | | | | |
| 5 | 955 | 955 | 949 | 938 | 918 | 903 | 889 | 883 | 892 | 913 | 933 | 947 | | | | | | |
| 10 | 986 | 988 | 979 | 966 | 937 | 911 | 880 | 865 | 874 | 900 | 941 | 969 | | | | | | |
| 15 | 935 | 950 | 952 | 941 | 918 | 866 | 825 | 792 | 804 | 818 | 865 | 905 | | | | | | |
| 20 | 761 | 789 | 789 | 794 | 778 | 743 | 705 | 659 | 658 | 664 | 691 | 728 | | | | | | |
| 25 | 509 | 536 | 542 | 565 | 557 | 551 | 530 | 487 | 477 | 463 | 475 | 492 | | | | | | |
| 30 | 255 | 288 | 304 | 321 | 338 | 347 | 333 | 306 | 290 | 257 | 264 | 263 | | | | | | |
| 35 | 95.1 | 111 | 123 | 139 | 147 | 154 | 150 | 132 | 121 | 101 | 99.8 | 94.5 | | | | | | |
| 40 | 20.9 | 31.8 | 38.2 | 36.5 | 44.2 | 45.8 | 35.7 | 37.8 | 33.0 | 21.4 | 28.0 | 24.1 | | | | | | |
| 45 | 3.59 | 7.31 | 9.28 | 7.74 | 9.69 | 9.55 | 5.59 | 8.70 | 6.59 | 2.76 | 5.03 | 5.20 | | | | | | |
| 50 | 1.34 | 1.73 | 2.67 | 4.21 | 2.86 | 2.04 | 1.52 | 1.86 | 1.55 | 1.07 | 1.33 | 1.48 | | | | | | |
| 55 | 0.89 | 1.03 | 1.50 | 2.02 | 1.66 | 1.11 | 1.00 | 1.02 | 0.94 | 0.75 | 0.87 | 0.93 | | | | | | |
| 60 | 0.74 | 0.81 | 1.39 | 2.22 | 1.58 | 0.88 | 0.80 | 0.83 | 0.81 | 0.70 | 0.76 | 0.77 | | | | | | |
| 65 | 0.66 | 0.75 | 1.31 | 1.97 | 1.36 | 0.79 | 0.69 | 0.79 | 0.83 | 0.74 | 0.79 | 0.75 | | | | | | |
| 70 | 0.60 | 0.60 | 0.89 | 1.19 | 0.93 | 0.65 | 0.62 | 0.72 | 0.82 | 0.85 | 0.77 | 0.66 | | | | | | |
| 75 | 0.10 | 0.23 | 0.43 | 0.41 | 0.58 | 0.46 | 0.13 | 0.43 | 0.47 | 0.08 | 0.38 | 0.32 | | | | | | |
| 80 | 0.06 | 0.13 | 0.18 | 0.22 | 0.19 | 0.16 | 0.07 | 0.06 | 0.05 | 0.04 | 0.04 | 0.05 | | | | | | |
| 85 | 0.03 | 0.09 | 0.13 | 0.15 | 0.15 | 0.11 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | 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 | | | | | | |

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Operators:Zoe
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