

Luminaire Photograph



| | | |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 81.1% | |
| Luminaire Power: | 11.76 W | |
| SHR Nominal: | 0.50 | Calculated using the TM5 |
| SHR Maximum: | 0.65 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-5-31

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: CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

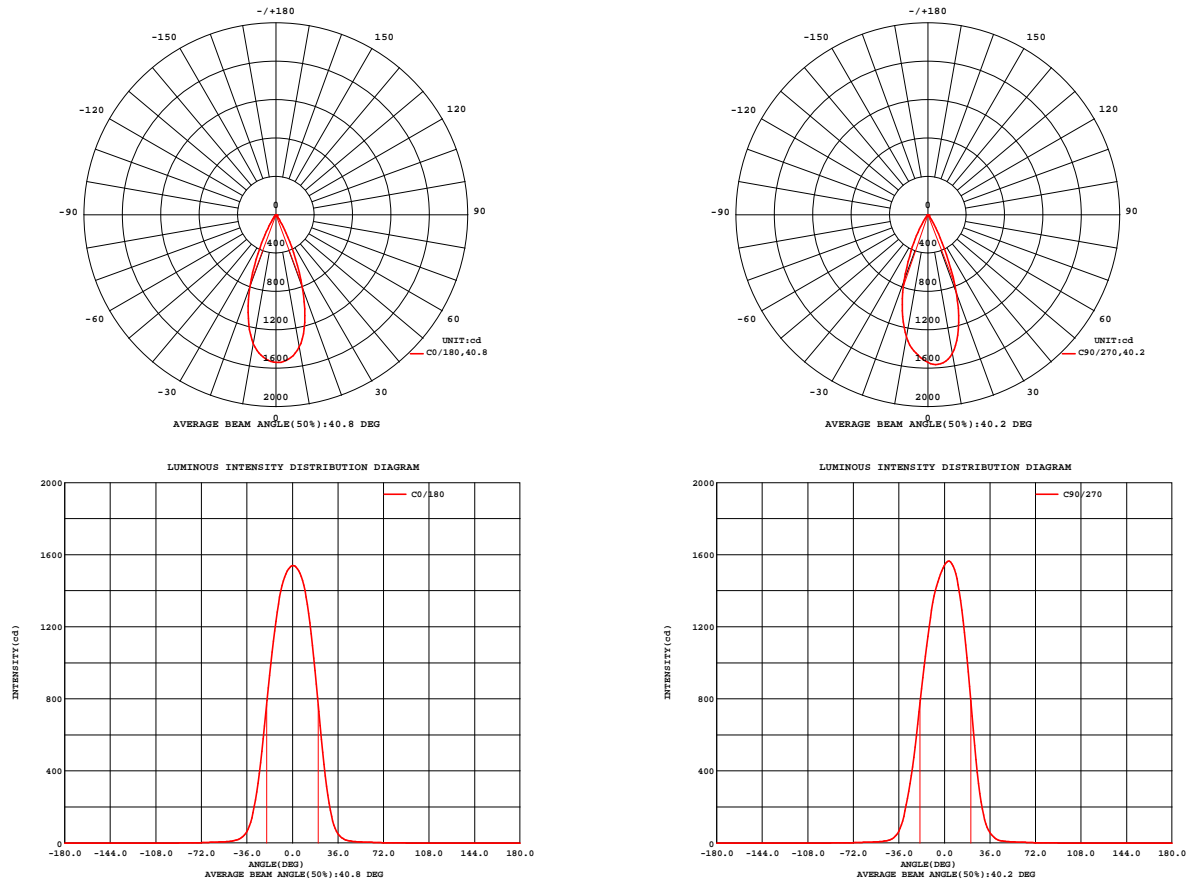


Fig. C0/C180

Fig. C90/C270

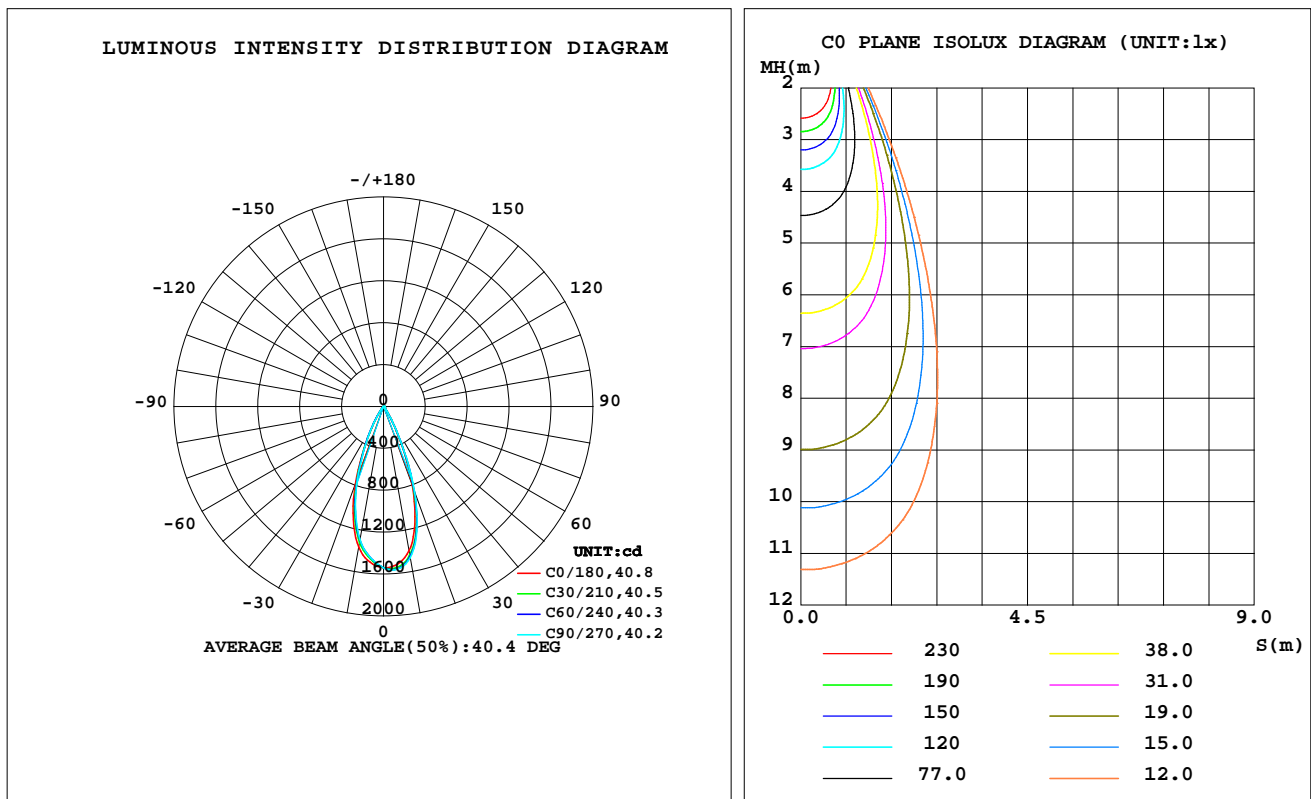
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 61.85 lm/W | | | |
|------------------|---------|----------------------------------|--------|-------------------|----------|
| MODEL | CREE | I _{max} (cd) | 1564 | S/MH(C0/180) | 0.63 |
| NOMINAL POWER(W) | 12 | LOR(%) | 81.1 | S/MH(C90/270) | 0.62 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 727.43 | η UP,DN(C0-180) | 0.0,42.0 |
| NOMINAL FLUX(lm) | 896.707 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,39.2 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.50 |
| TEST VOLTAGE(V) | 120 | η down(%) | 81.1 | CIBSE SHR MAX | 0.65 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
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 | 1401 | 1449 | 1467 | 1435 | 1364 | 1311 | 1293 | 1334 | 0- 10 | 139.7 | 139.7 | 19.2,15.6 |
| 20 | 804.8 | 852.6 | 869.4 | 855.5 | 791.4 | 742.8 | 726.6 | 750.0 | 10- 20 | 309.3 | 449.0 | 61.7,50.1 |
| 30 | 181.7 | 182.5 | 188.7 | 196.2 | 203.3 | 212.6 | 212.1 | 192.5 | 20- 30 | 205.0 | 653.9 | 89.9,72.9 |
| 40 | 24.90 | 25.15 | 27.69 | 30.15 | 31.11 | 30.71 | 29.79 | 26.89 | 30- 40 | 52.40 | 706.3 | 97.1,78.8 |
| 50 | 7.443 | 7.322 | 7.736 | 8.216 | 8.539 | 8.232 | 8.018 | 7.803 | 40- 50 | 11.14 | 717.5 | 98.6,80 |
| 60 | 4.497 | 4.516 | 4.727 | 4.953 | 5.045 | 4.888 | 4.716 | 4.592 | 50- 60 | 5.322 | 722.8 | 99.4,80.6 |
| 70 | 1.818 | 1.848 | 1.962 | 2.123 | 2.223 | 2.193 | 2.071 | 1.892 | 60- 70 | 3.326 | 726.1 | 99.8,81 |
| 80 | 0.3609 | 0.3688 | 0.4150 | 0.4600 | 0.5015 | 0.4884 | 0.4451 | 0.3743 | 70- 80 | 1.168 | 727.3 | 100,81.1 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 90 | 0.1334 | 727.4 | 100,81.1 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90-100 | 0 | 727.4 | 100,81.1 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0 | 727.4 | 100,81.1 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 727.4 | 100,81.1 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 727.4 | 100,81.1 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 727.4 | 100,81.1 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 727.4 | 100,81.1 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 727.4 | 100,81.1 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 727.4 | 100,81.1 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 727.4 | 100,81.1 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:zoe
 Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
 LENS: PM-1084B 36R
 DRIVER:PUP10A-1WMC-700 500mA
 30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz
Lamp Flux:896.707x1 lm

NAME: 2318.203-LEA-09

TYPE:

WEIGHT:

SPEC.: 3000K

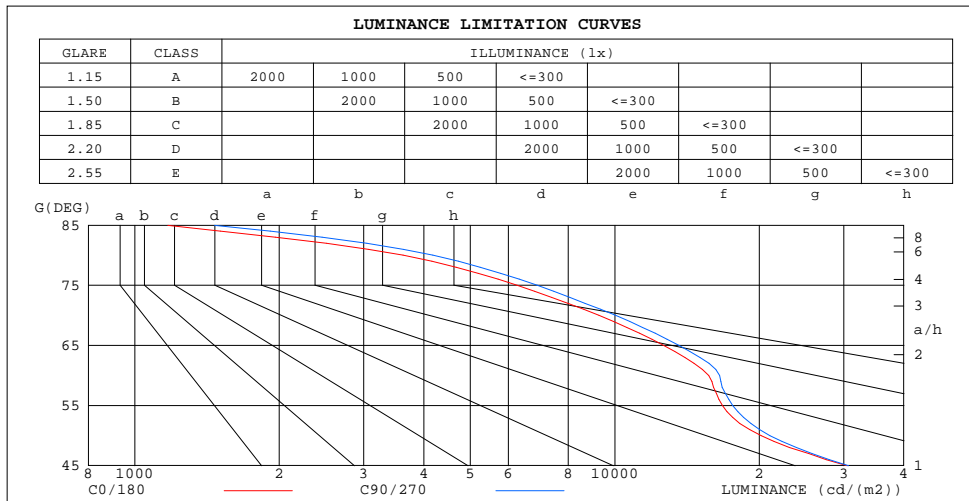
DIM.:

SERIAL No.: 2305310697

MFR.: RISE

SUR.: 0.000572265m2

Shielding Angle:



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(180) | C0/180 | C90/270 |
| 85 | 1171 | 1467 |
| 80 | 3624 | 4178 |
| 75 | 6253 | 6890 |
| 70 | 9266 | 10030 |
| 65 | 12639 | 13599 |
| 60 | 15681 | 16529 |
| 55 | 16764 | 17609 |
| 50 | 20188 | 21041 |
| 45 | 30485 | 30675 |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz
Lamp Flux:896.707x1 lm

NAME: 2318.203-LEA-09

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

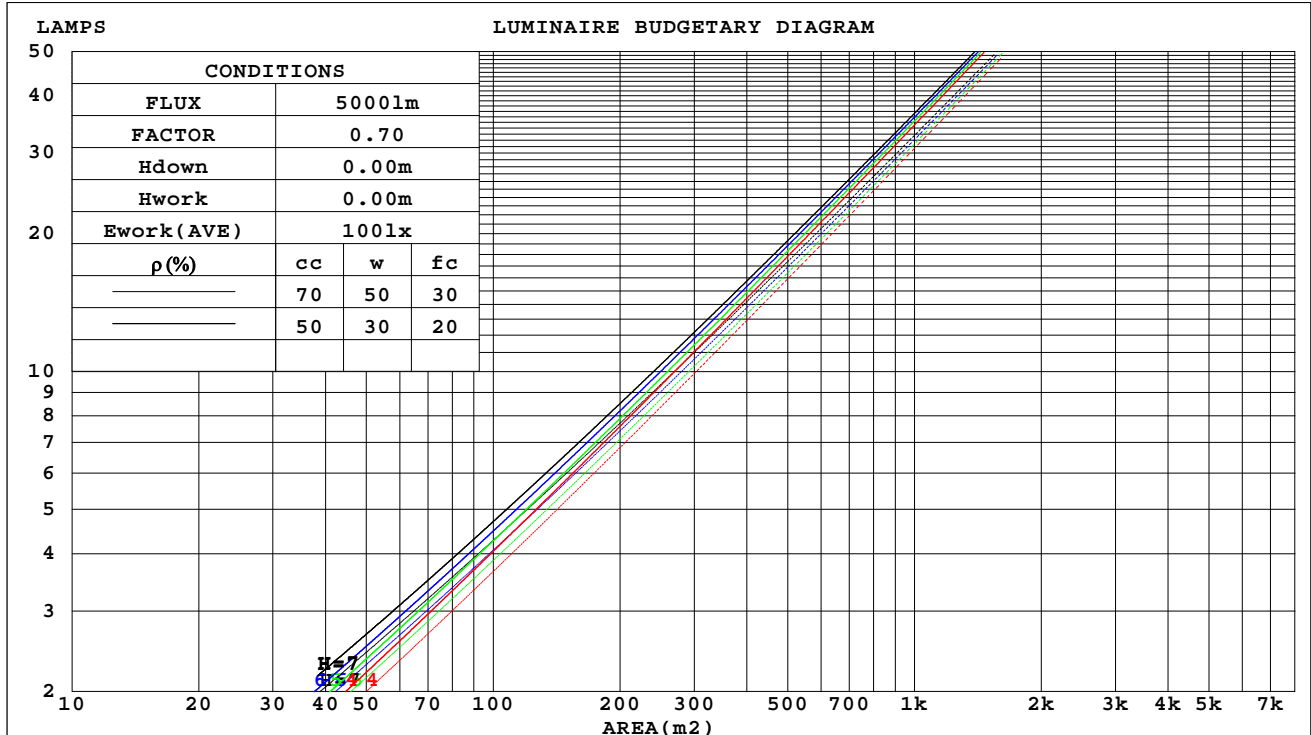
SERIAL No.: 2305310697

MFR.: RISE

SUR.: 0.000572265m2

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 | .97 | .97 | .97 | .94 | .94 | .94 | .90 | .90 | .90 | .86 | .86 | .86 | .83 | .83 | .83 | .81 |
| 1.0 | .91 | .89 | .87 | .89 | .87 | .86 | .86 | .85 | .83 | .83 | .82 | .81 | .80 | .79 | .79 | .77 |
| 2.0 | .86 | .83 | .80 | .84 | .82 | .80 | .82 | .80 | .78 | .79 | .78 | .76 | .77 | .76 | .75 | .73 |
| 3.0 | .81 | .78 | .75 | .80 | .77 | .74 | .78 | .75 | .73 | .76 | .74 | .72 | .74 | .72 | .71 | .70 |
| 4.0 | .77 | .73 | .70 | .76 | .73 | .70 | .74 | .71 | .69 | .73 | .70 | .68 | .71 | .69 | .68 | .66 |
| 5.0 | .73 | .69 | .66 | .73 | .69 | .66 | .71 | .68 | .66 | .70 | .67 | .65 | .69 | .66 | .64 | .63 |
| 6.0 | .70 | .66 | .63 | .69 | .65 | .63 | .68 | .65 | .62 | .67 | .64 | .62 | .66 | .64 | .62 | .61 |
| 7.0 | .67 | .63 | .60 | .66 | .62 | .60 | .65 | .62 | .59 | .64 | .61 | .59 | .64 | .61 | .59 | .58 |
| 8.0 | .64 | .60 | .57 | .64 | .60 | .57 | .63 | .59 | .57 | .62 | .59 | .57 | .61 | .58 | .56 | .55 |
| 9.0 | .61 | .57 | .55 | .61 | .57 | .55 | .60 | .57 | .54 | .60 | .57 | .54 | .59 | .56 | .54 | .53 |
| 10.0 | .59 | .55 | .52 | .59 | .55 | .52 | .58 | .55 | .52 | .57 | .54 | .52 | .57 | .54 | .52 | .51 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

WEC AND CCEC

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | 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 | .127 | .072 | .023 | .121 | .069 | .022 | .111 | .064 | .020 | .102 | .059 | .019 | .093 | .054 | .017 | |
| 2.0 | .119 | .065 | .020 | .115 | .063 | .019 | .106 | .059 | .018 | .098 | .055 | .017 | .091 | .052 | .016 | |
| 3.0 | .112 | .060 | .018 | .108 | .058 | .017 | .101 | .055 | .017 | .095 | .052 | .016 | .089 | .049 | .015 | |
| 4.0 | .106 | .055 | .016 | .103 | .054 | .016 | .097 | .051 | .015 | .091 | .049 | .015 | .086 | .047 | .014 | |
| 5.0 | .101 | .051 | .015 | .098 | .050 | .015 | .093 | .048 | .014 | .088 | .046 | .014 | .083 | .044 | .013 | |
| 6.0 | .096 | .048 | .014 | .093 | .047 | .014 | .089 | .046 | .013 | .085 | .044 | .013 | .081 | .042 | .013 | |
| 7.0 | .091 | .045 | .013 | .089 | .044 | .013 | .085 | .043 | .012 | .082 | .042 | .012 | .078 | .041 | .012 | |
| 8.0 | .087 | .043 | .012 | .086 | .042 | .012 | .082 | .041 | .012 | .079 | .040 | .012 | .076 | .039 | .011 | |
| 9.0 | .084 | .041 | .011 | .082 | .040 | .011 | .079 | .039 | .011 | .076 | .038 | .011 | .073 | .037 | .011 | |
| 10.0 | .081 | .039 | .011 | .079 | .038 | .011 | .076 | .037 | .011 | .074 | .037 | .010 | .071 | .036 | .010 | |

| 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 | .155 | .155 | .155 | .132 | .132 | .132 | .090 | .090 | .090 | .052 | .052 | .052 | .017 | .017 | .017 | | |
| 1.0 | .138 | .128 | .119 | .118 | .110 | .102 | .081 | .075 | .071 | .046 | .044 | .041 | .015 | .014 | .013 | | |
| 2.0 | .124 | .108 | .094 | .106 | .093 | .081 | .073 | .064 | .057 | .042 | .037 | .033 | .013 | .012 | .011 | | |
| 3.0 | .113 | .092 | .075 | .097 | .079 | .065 | .066 | .055 | .046 | .038 | .032 | .027 | .012 | .010 | .009 | | |
| 4.0 | .104 | .080 | .062 | .089 | .069 | .054 | .061 | .048 | .038 | .035 | .028 | .022 | .011 | .009 | .007 | | |
| 5.0 | .096 | .070 | .051 | .082 | .061 | .044 | .057 | .042 | .031 | .033 | .025 | .019 | .011 | .008 | .006 | | |
| 6.0 | .089 | .062 | .043 | .077 | .054 | .037 | .053 | .038 | .026 | .031 | .022 | .016 | .010 | .007 | .005 | | |
| 7.0 | .083 | .056 | .036 | .072 | .048 | .032 | .050 | .034 | .023 | .029 | .020 | .013 | .009 | .007 | .004 | | |
| 8.0 | .079 | .051 | .031 | .068 | .044 | .027 | .047 | .031 | .019 | .027 | .018 | .012 | .009 | .006 | .004 | | |
| 9.0 | .074 | .046 | .027 | .064 | .040 | .024 | .044 | .028 | .017 | .026 | .017 | .010 | .008 | .005 | .003 | | |
| 10.0 | .070 | .042 | .024 | .061 | .037 | .021 | .042 | .026 | .015 | .025 | .015 | .009 | .008 | .005 | .003 | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|---------------------|----------------|------|------------------------|------|------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | | | | | | | | | |
| NAME: 2318.203-LEA-09 | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: 3000K | | | | | DIM.: | | | SERIAL No.: 2305310697 | | |
| MFR.: RISE | | | | | SUR.: 0.000572265m2 | | | 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 | 17.7 | 18.5 | 17.9 | 18.6 | 18.8 | 18.0 | 18.8 | 18.2 | 18.9 | 19.1 |
| 3H | 17.7 | 18.4 | 18.0 | 18.6 | 18.8 | 18.0 | 18.8 | 18.3 | 18.9 | 19.1 |
| 4H | 17.7 | 18.4 | 18.0 | 18.6 | 18.8 | 18.0 | 18.7 | 18.3 | 18.9 | 19.1 |
| 6H | 17.6 | 18.3 | 17.9 | 18.5 | 18.8 | 18.0 | 18.6 | 18.2 | 18.8 | 19.1 |
| 8H | 17.6 | 18.2 | 17.9 | 18.5 | 18.7 | 17.9 | 18.5 | 18.2 | 18.8 | 19.0 |
| 12H | 17.6 | 18.2 | 17.9 | 18.4 | 18.7 | 17.9 | 18.5 | 18.2 | 18.7 | 19.0 |
| 4H 2H | 17.6 | 18.3 | 17.8 | 18.5 | 18.7 | 17.9 | 18.6 | 18.1 | 18.8 | 19.0 |
| 3H | 17.7 | 18.3 | 18.0 | 18.5 | 18.8 | 18.0 | 18.6 | 18.3 | 18.8 | 19.1 |
| 4H | 17.7 | 18.2 | 18.0 | 18.5 | 18.8 | 18.0 | 18.5 | 18.3 | 18.8 | 19.1 |
| 6H | 17.6 | 18.1 | 18.0 | 18.4 | 18.8 | 17.9 | 18.4 | 18.3 | 18.7 | 19.1 |
| 8H | 17.6 | 18.0 | 18.0 | 18.4 | 18.7 | 17.9 | 18.3 | 18.3 | 18.7 | 19.0 |
| 12H | 17.5 | 17.9 | 17.9 | 18.3 | 18.7 | 17.8 | 18.2 | 18.2 | 18.6 | 19.0 |
| 8H 4H | 17.6 | 18.0 | 18.0 | 18.4 | 18.7 | 17.9 | 18.3 | 18.3 | 18.7 | 19.0 |
| 6H | 17.5 | 17.9 | 17.9 | 18.3 | 18.7 | 17.8 | 18.2 | 18.2 | 18.6 | 19.0 |
| 8H | 17.5 | 17.8 | 17.9 | 18.2 | 18.7 | 17.8 | 18.1 | 18.2 | 18.5 | 19.0 |
| 12H | 17.4 | 17.7 | 17.9 | 18.1 | 18.6 | 17.7 | 18.0 | 18.2 | 18.4 | 18.9 |
| 12H 4H | 17.5 | 17.9 | 17.9 | 18.3 | 18.7 | 17.8 | 18.2 | 18.2 | 18.6 | 19.0 |
| 6H | 17.5 | 17.8 | 17.9 | 18.2 | 18.7 | 17.8 | 18.1 | 18.2 | 18.5 | 18.9 |
| 8H | 17.4 | 17.7 | 17.9 | 18.1 | 18.6 | 17.7 | 18.0 | 18.2 | 18.4 | 18.9 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 2.5 / - 2.9 | | | | | + 2.8 / - 3.1 | | | | |
| 1.5H | + 4.4 / - 2.4 | | | | | + 4.8 / - 2.5 | | | | |
| 2.0H | + 2.1 / - 1.0 | | | | | + 1.9 / - 1.1 | | | | |

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.000572265 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

UTILIZATION FACTORS TABLE

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
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| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |

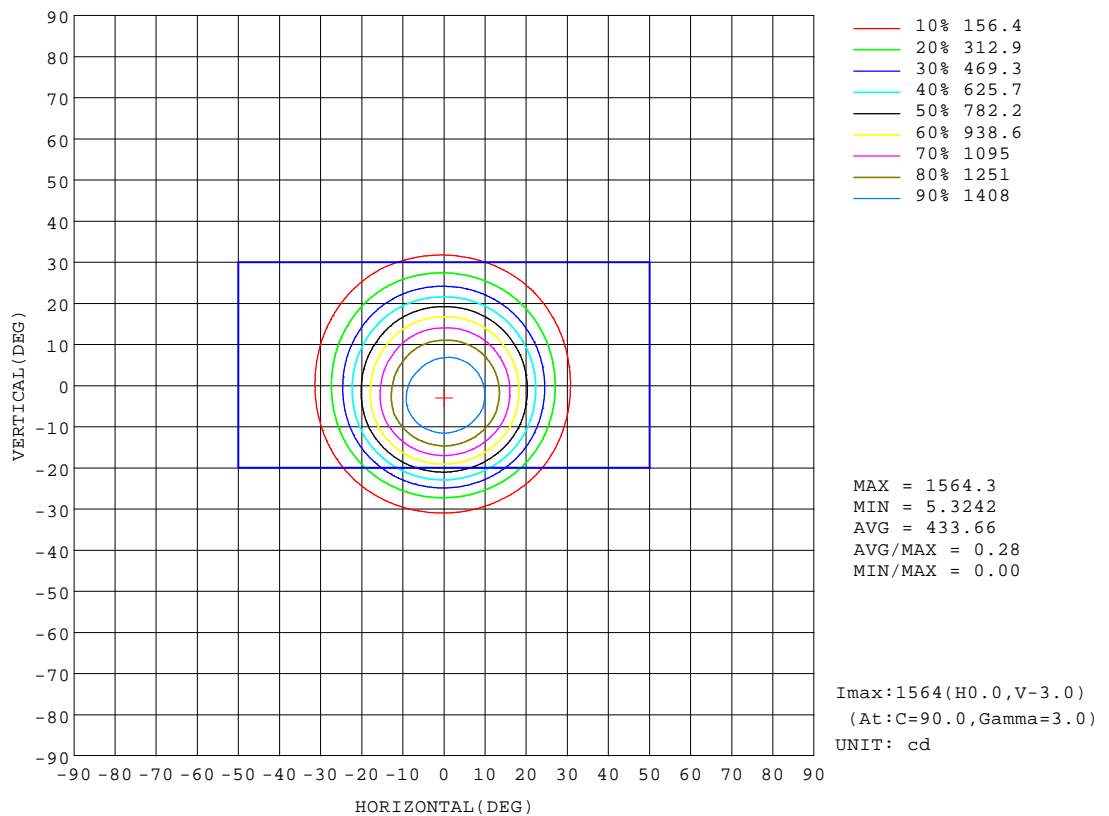
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 73 | 68 | 65 | 72 | 68 | 65 | 72 | 68 | 65 | 62 |
| 0.80 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 71 | 68 |
| 1.00 | 82 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 74 | 71 |
| 1.25 | 85 | 81 | 78 | 84 | 80 | 78 | 82 | 79 | 77 | 74 |
| 1.50 | 87 | 83 | 81 | 86 | 83 | 80 | 84 | 81 | 79 | 76 |
| 2.00 | 89 | 86 | 83 | 88 | 85 | 82 | 85 | 83 | 81 | 77 |
| 2.50 | 90 | 87 | 85 | 89 | 86 | 84 | 86 | 84 | 83 | 78 |
| 3.00 | 91 | 89 | 86 | 90 | 87 | 86 | 87 | 85 | 84 | 79 |
| 4.00 | 93 | 91 | 89 | 91 | 89 | 88 | 88 | 87 | 86 | 80 |
| 5.00 | 94 | 92 | 91 | 92 | 91 | 89 | 89 | 88 | 87 | 81 |
| 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°C
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

ISOCANDELA DIAGRAM

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |

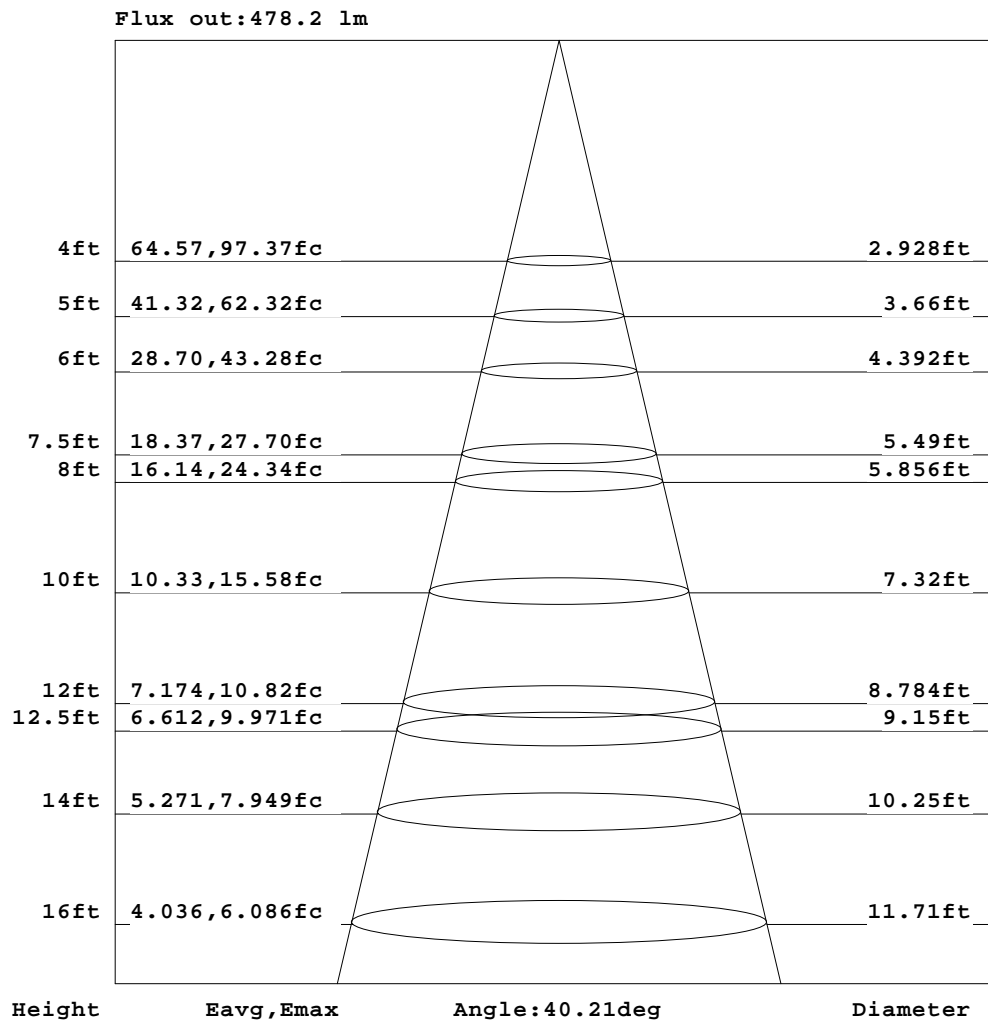


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

AAI Figure

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |



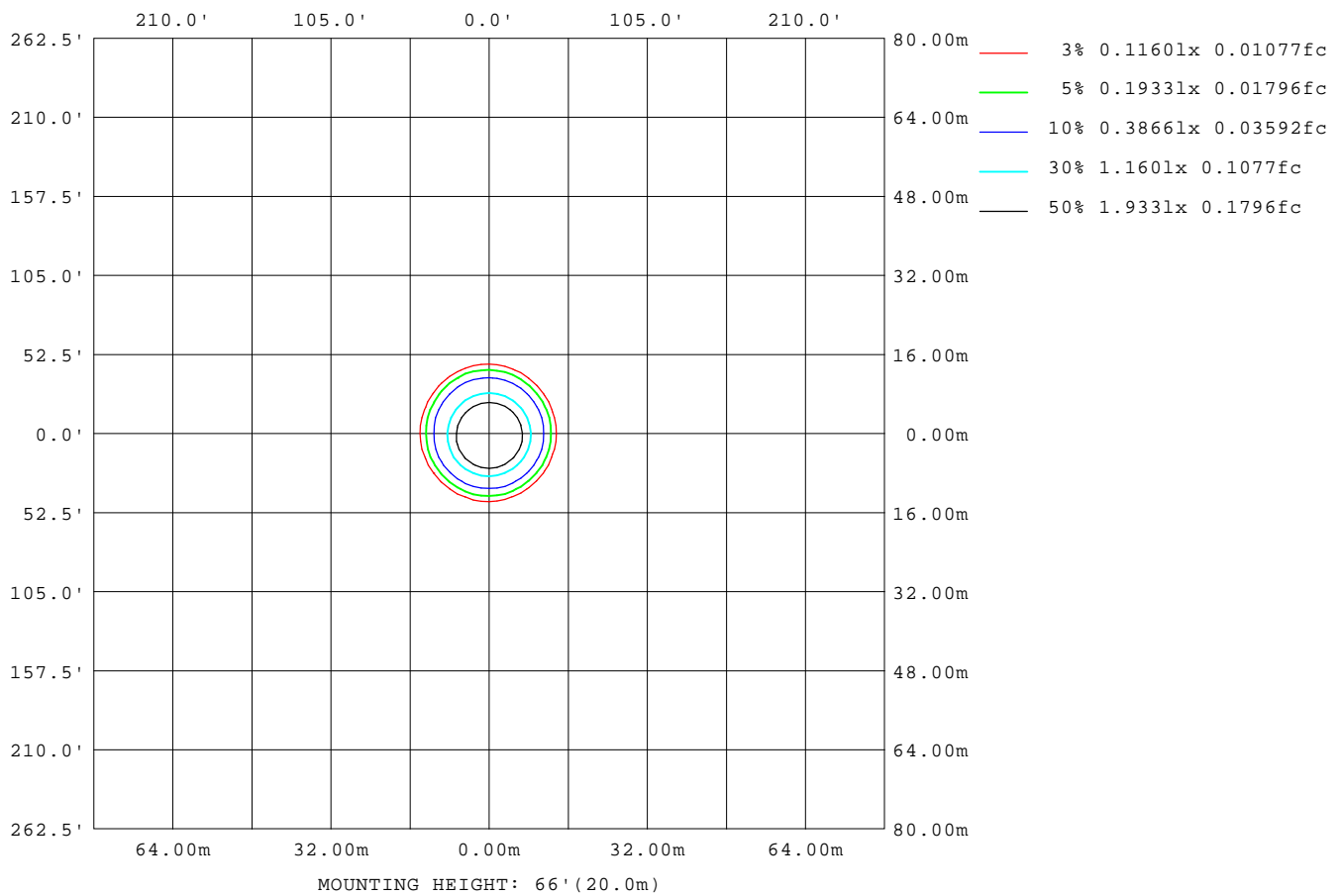
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2023-5-31

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: CMA1306-0000-000F0U0A30G Ra: 90
LENS: PM-1084B 36R
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

ISOLUX DIAGRAM

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

LED Avg.L Report

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |

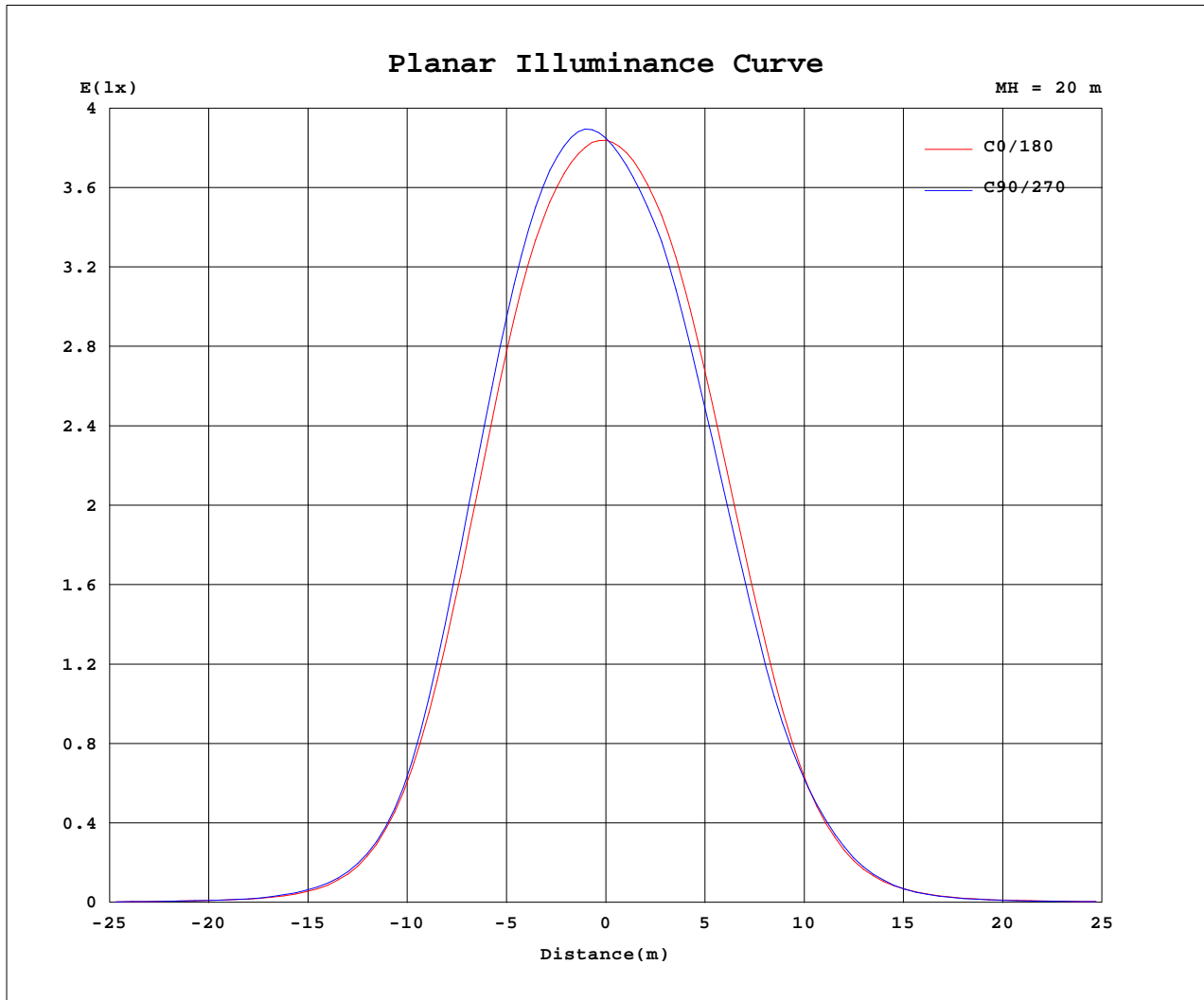
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 13947 |
| L_0~180(75)av | 7110 |
| L_0~180(85)av | 1609 |
| L_90~270(65)av | 13792 |
| L_90~270(75)av | 7157 |
| L_90~270(85)av | 1449 |
| L_45(65)av | 13820 |
| L_45(75)av | 7093 |
| L_45(85)av | 1369 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-5-31

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:CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2023-5-31

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: CMA1306-0000-000F0U0A30G Ra:90
 LENS: PM-1084B 36R
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|---------------------|------------------------|
| Test:U:120.22V I:0.0989A P:11.760W PF:0.9879 Freq:59.98Hz Lamp Flux:896.707x1 lm | | |
| NAME: 2318.203-LEA-09 | TYPE: | WEIGHT: |
| SPEC.: 3000K | DIM.: | SERIAL No.: 2305310697 |
| MFR.: RISE | SUR.: 0.000572265m2 | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | 1539 | | | | | | |
| 5 | 1511 | 1541 | 1554 | 1558 | 1546 | 1526 | 1492 | 1462 | 1447 | 1448 | 1460 | 1480 | | | | | | |
| 10 | 1401 | 1441 | 1457 | 1467 | 1453 | 1417 | 1364 | 1322 | 1299 | 1293 | 1317 | 1351 | | | | | | |
| 15 | 1160 | 1212 | 1226 | 1233 | 1221 | 1189 | 1119 | 1068 | 1049 | 1037 | 1060 | 1099 | | | | | | |
| 20 | 805 | 847 | 858 | 869 | 867 | 844 | 791 | 750 | 736 | 727 | 740 | 760 | | | | | | |
| 25 | 436 | 449 | 454 | 462 | 465 | 464 | 445 | 434 | 433 | 421 | 418 | 421 | | | | | | |
| 30 | 182 | 183 | 182 | 189 | 192 | 200 | 203 | 206 | 220 | 212 | 199 | 186 | | | | | | |
| 35 | 64.4 | 66.0 | 67.4 | 71.8 | 73.8 | 75.5 | 77.8 | 80.4 | 84.4 | 82.6 | 74.3 | 66.6 | | | | | | |
| 40 | 24.9 | 25.0 | 25.3 | 27.7 | 29.4 | 30.9 | 31.1 | 30.5 | 30.9 | 29.8 | 27.6 | 26.2 | | | | | | |
| 45 | 12.4 | 11.8 | 11.9 | 12.4 | 13.1 | 14.1 | 14.5 | 14.1 | 14.0 | 13.8 | 13.3 | 13.0 | | | | | | |
| 50 | 7.44 | 7.26 | 7.38 | 7.74 | 8.03 | 8.40 | 8.54 | 8.29 | 8.18 | 8.02 | 7.86 | 7.74 | | | | | | |
| 55 | 5.51 | 5.48 | 5.56 | 5.78 | 6.01 | 6.13 | 6.13 | 5.99 | 5.86 | 5.74 | 5.69 | 5.61 | | | | | | |
| 60 | 4.50 | 4.48 | 4.55 | 4.73 | 4.89 | 5.02 | 5.05 | 4.94 | 4.83 | 4.72 | 4.64 | 4.55 | | | | | | |
| 65 | 3.06 | 3.08 | 3.13 | 3.29 | 3.45 | 3.61 | 3.68 | 3.62 | 3.54 | 3.38 | 3.23 | 3.10 | | | | | | |
| 70 | 1.82 | 1.83 | 1.86 | 1.96 | 2.07 | 2.17 | 2.22 | 2.21 | 2.18 | 2.07 | 1.94 | 1.84 | | | | | | |
| 75 | 0.93 | 0.94 | 0.96 | 1.02 | 1.08 | 1.14 | 1.18 | 1.17 | 1.17 | 1.10 | 1.01 | 0.94 | | | | | | |
| 80 | 0.36 | 0.36 | 0.37 | 0.41 | 0.44 | 0.48 | 0.50 | 0.49 | 0.49 | 0.45 | 0.39 | 0.36 | | | | | | |
| 85 | 0.06 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 | 0.07 | 0.05 | 0.04 | | | | | | |
| 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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