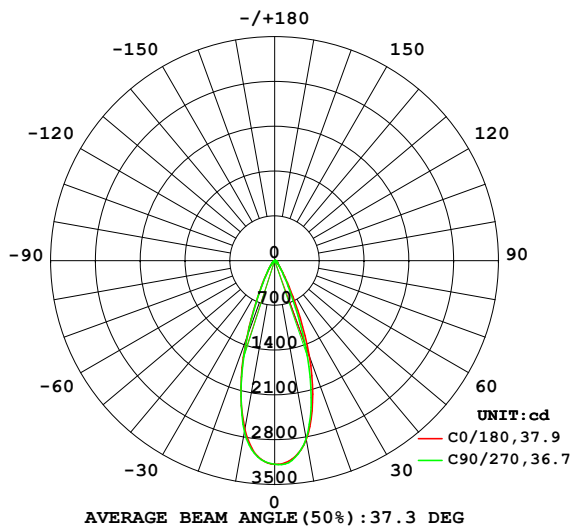


LUMINAIRE PHOTOMETRIC TEST REPORT

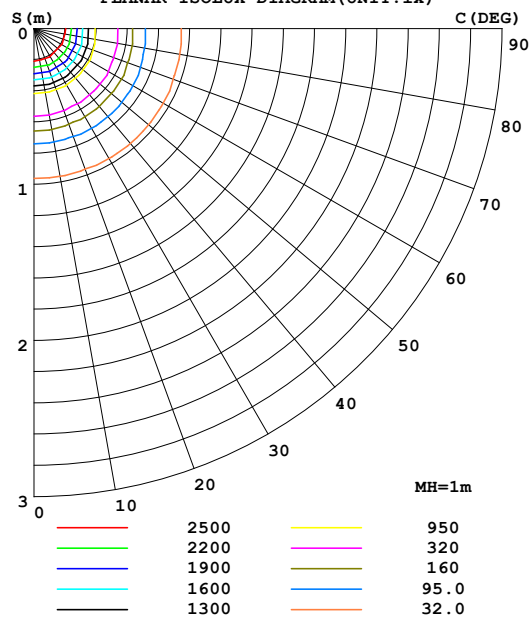
| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 72.29 lm/W |
|------------------|---------|------------------|--------|------------------------|--|-----------------|
| MODEL | | Imax (cd) | 3187 | S/MH(C0/180) | | 0.57 |
| NOMINAL POWER(W) | 20 | LOR(%) | 100.0 | S/MH(C90/270) | | 0.57 |
| RATED VOLTAGE(V) | 240 | TOTAL FLUX(lm) | 1422.1 | η UP,DN(C0-180) | | 0.0,52.3 |
| NOMINAL FLUX(lm) | 1422.12 | CIE CLASS | DIRECT | η UP,DN(C180-360) | | 0.0,47.7 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | | 0.50 |
| TEST VOLTAGE(V) | 240.41 | η down (%) | 100.0 | CIBSE SHR MAX | | 0.60 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 2845 | 2854 | 2829 | 2736 | 2679 | 2678 | 2724 | 2786 | 0- 10 | 285.4 | 285.4 | 20.1,20.1 |
| 20 | 1583 | 1618 | 1399 | 1260 | 1269 | 1268 | 1257 | 1373 | 10- 20 | 580.5 | 865.9 | 60.9,60.9 |
| 30 | 401.8 | 409.2 | 342.3 | 308.3 | 305.5 | 294.6 | 296.2 | 329.8 | 20- 30 | 335.2 | 1201 | 84.5,84.5 |
| 40 | 119.2 | 121.6 | 109.0 | 100.3 | 98.60 | 96.64 | 98.14 | 102.8 | 30- 40 | 118.0 | 1319 | 92.8,92.8 |
| 50 | 51.37 | 51.12 | 48.52 | 45.30 | 45.18 | 44.46 | 45.65 | 47.33 | 40- 50 | 54.44 | 1374 | 96.6,96.6 |
| 60 | 25.11 | 25.62 | 24.82 | 22.75 | 21.94 | 22.08 | 22.87 | 23.29 | 50- 60 | 30.37 | 1404 | 98.7,98.7 |
| 70 | 9.442 | 8.836 | 7.386 | 5.883 | 5.020 | 6.026 | 7.376 | 8.437 | 60- 70 | 14.82 | 1419 | 99.8,99.8 |
| 80 | 1.442 | 1.286 | 1.016 | 0.8151 | 0.7780 | 0.8693 | 1.112 | 1.315 | 70- 80 | 2.948 | 1422 | 100,100 |
| 90 | 0.0700 | 0.0411 | 0.0534 | 0.0357 | 0.0411 | 0.0353 | 0.0402 | 0.0457 | 80- 90 | 0.4067 | 1422 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 1350.6 lm

%lum = 95.0%

%lamp = 95.0%

Conical surface Flux(120deg): 1403.9 lm

%lum = 98.7%

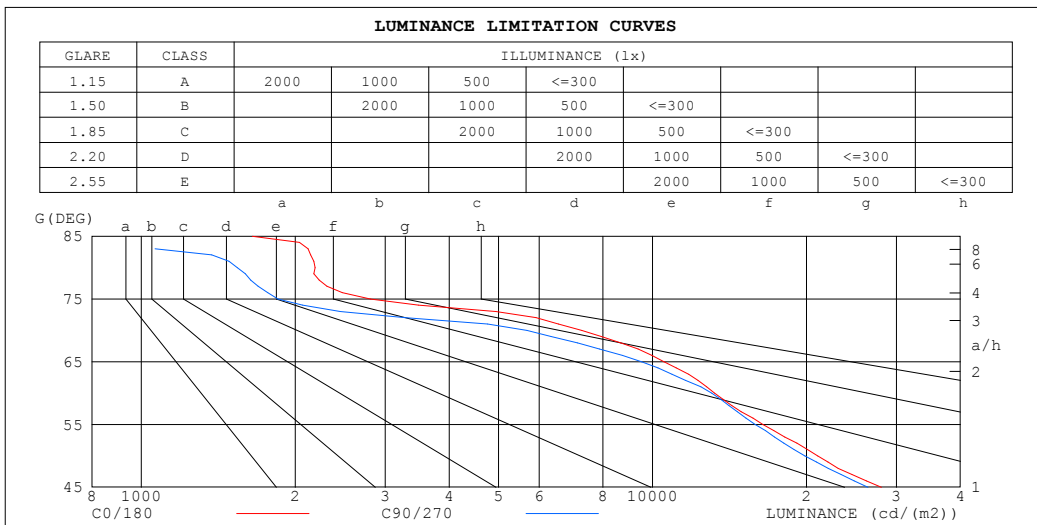
%lamp = 98.7%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-11-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity:65.0%
 Test Distance:3.090m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | WEIGHT: | |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |



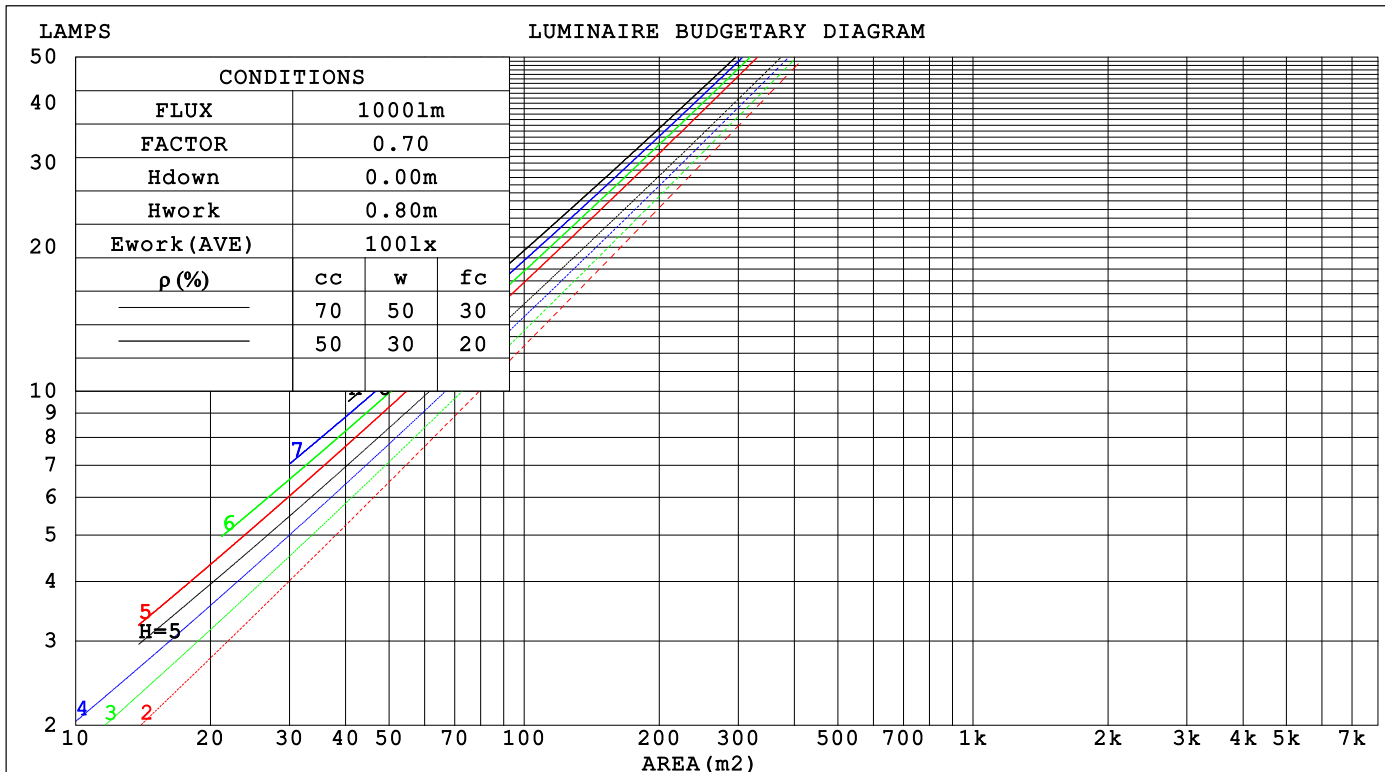
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | 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 | | | | | | | | | | | | | | | Coefficients of Utilization(CU) | | | | | | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 | | | | | | | | | | | | | | |
| 1.0 | 1.12 | 1.09 | 1.07 | 1.09 | 1.07 | 1.06 | 1.05 | 1.04 | 1.02 | 1.02 | 1.00 | .99 | .98 | .97 | .96 | .95 | | | | | | | | | | | | | | |
| 2.0 | 1.05 | 1.01 | .98 | 1.03 | .99 | .97 | .99 | .97 | .95 | .97 | .95 | .93 | .94 | .93 | .91 | .90 | | | | | | | | | | | | | | |
| 3.0 | .99 | .95 | .91 | .98 | .94 | .90 | .95 | .92 | .89 | .93 | .90 | .87 | .90 | .88 | .86 | .85 | | | | | | | | | | | | | | |
| 4.0 | .94 | .89 | .85 | .93 | .88 | .85 | .90 | .87 | .84 | .89 | .85 | .83 | .87 | .84 | .82 | .80 | | | | | | | | | | | | | | |
| 5.0 | .89 | .84 | .80 | .88 | .83 | .80 | .86 | .82 | .79 | .85 | .81 | .78 | .83 | .80 | .78 | .76 | | | | | | | | | | | | | | |
| 6.0 | .85 | .80 | .76 | .84 | .79 | .76 | .83 | .78 | .75 | .81 | .77 | .75 | .80 | .77 | .74 | .73 | | | | | | | | | | | | | | |
| 7.0 | .81 | .76 | .72 | .80 | .75 | .72 | .79 | .75 | .71 | .78 | .74 | .71 | .77 | .73 | .71 | .70 | | | | | | | | | | | | | | |
| 8.0 | .77 | .72 | .69 | .77 | .72 | .69 | .76 | .71 | .68 | .75 | .71 | .68 | .74 | .70 | .68 | .67 | | | | | | | | | | | | | | |
| 9.0 | .74 | .69 | .66 | .74 | .69 | .66 | .73 | .68 | .65 | .72 | .68 | .65 | .71 | .68 | .65 | .64 | | | | | | | | | | | | | | |
| 10.0 | .71 | .66 | .63 | .71 | .66 | .63 | .70 | .66 | .63 | .69 | .65 | .63 | .69 | .65 | .62 | .61 | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|---|--|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | | WEIGHT: |
| SPEC.: | | SERIAL No.: |
| MFR.: Norming lighting | | Shielding Angle: |
| DIM.: | | |
| SUR.: 70mm | | |

| 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 | .162 | .092 | .029 | .155 | .089 | .028 | .143 | .082 | .026 | .131 | .076 | .024 | .121 | .070 | .023 | | |
| 2.0 | .153 | .084 | .026 | .148 | .081 | .025 | .137 | .076 | .024 | .128 | .072 | .022 | .119 | .067 | .021 | | |
| 3.0 | .145 | .077 | .023 | .140 | .075 | .023 | .131 | .071 | .022 | .123 | .067 | .021 | .115 | .064 | .020 | | |
| 4.0 | .137 | .071 | .021 | .133 | .069 | .021 | .125 | .066 | .020 | .118 | .063 | .019 | .111 | .061 | .018 | | |
| 5.0 | .129 | .066 | .019 | .126 | .065 | .019 | .119 | .062 | .018 | .113 | .060 | .018 | .108 | .058 | .017 | | |
| 6.0 | .123 | .062 | .018 | .120 | .061 | .017 | .114 | .058 | .017 | .109 | .057 | .017 | .104 | .055 | .016 | | |
| 7.0 | .117 | .058 | .016 | .114 | .057 | .016 | .109 | .055 | .016 | .105 | .054 | .016 | .100 | .052 | .015 | | |
| 8.0 | .111 | .054 | .015 | .109 | .054 | .015 | .105 | .052 | .015 | .101 | .051 | .015 | .097 | .050 | .014 | | |
| 9.0 | .107 | .052 | .014 | .105 | .051 | .014 | .101 | .050 | .014 | .097 | .049 | .014 | .093 | .047 | .014 | | |
| 10.0 | .102 | .049 | .014 | .100 | .048 | .014 | .097 | .047 | .013 | .093 | .046 | .013 | .090 | .045 | .013 | | |

| 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 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | | |
| 1.0 | .170 | .157 | .146 | .146 | .135 | .126 | .100 | .093 | .087 | .057 | .054 | .051 | .018 | .017 | .016 | | |
| 2.0 | .154 | .133 | .115 | .132 | .114 | .099 | .090 | .079 | .069 | .052 | .046 | .041 | .017 | .015 | .013 | | |
| 3.0 | .140 | .113 | .092 | .120 | .098 | .080 | .083 | .068 | .056 | .048 | .040 | .033 | .015 | .013 | .011 | | |
| 4.0 | .129 | .098 | .075 | .111 | .085 | .065 | .076 | .059 | .046 | .044 | .035 | .027 | .014 | .011 | .009 | | |
| 5.0 | .120 | .087 | .062 | .103 | .075 | .054 | .071 | .052 | .038 | .041 | .031 | .023 | .013 | .010 | .007 | | |
| 6.0 | .111 | .077 | .052 | .096 | .067 | .045 | .066 | .047 | .032 | .038 | .027 | .019 | .012 | .009 | .006 | | |
| 7.0 | .104 | .069 | .044 | .090 | .060 | .039 | .062 | .042 | .027 | .036 | .025 | .016 | .012 | .008 | .005 | | |
| 8.0 | .098 | .063 | .038 | .085 | .054 | .033 | .059 | .038 | .024 | .034 | .023 | .014 | .011 | .007 | .005 | | |
| 9.0 | .093 | .057 | .033 | .080 | .050 | .029 | .056 | .035 | .021 | .032 | .021 | .012 | .010 | .007 | .004 | | |
| 10.0 | .088 | .053 | .029 | .076 | .046 | .025 | .053 | .032 | .018 | .031 | .019 | .011 | .010 | .006 | .004 | | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|-----|------------------|------|------|------|------------|----------------|------|------------------|------|------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | | | | | | | | | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | | | | | | | | | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | | | | | | WEIGHT: | | | | | |
| SPEC.: | | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: Norming lighting | | | | | | SUR.: 70mm | | | 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 | | 18.0 | 18.9 | 18.3 | 19.0 | 19.2 | 17.7 | 18.6 | 18.0 | 18.7 | 18.9 |
| | 3H | 18.3 | 19.0 | 18.5 | 19.2 | 19.4 | 17.9 | 18.6 | 18.1 | 18.8 | 19.0 |
| | 4H | 18.2 | 18.9 | 18.5 | 19.2 | 19.4 | 17.8 | 18.5 | 18.1 | 18.8 | 19.0 |
| | 6H | 18.2 | 18.8 | 18.4 | 19.1 | 19.3 | 17.7 | 18.4 | 18.0 | 18.7 | 18.9 |
| | 8H | 18.1 | 18.8 | 18.4 | 19.0 | 19.3 | 17.7 | 18.4 | 18.0 | 18.6 | 18.9 |
| | 12H | 18.1 | 18.7 | 18.4 | 19.0 | 19.2 | 17.7 | 18.3 | 18.0 | 18.6 | 18.8 |
| 4H | 2H | 18.1 | 18.8 | 18.4 | 19.0 | 19.3 | 17.8 | 18.5 | 18.1 | 18.8 | 19.0 |
| | 3H | 18.4 | 19.0 | 18.7 | 19.3 | 19.5 | 18.0 | 18.6 | 18.3 | 18.9 | 19.2 |
| | 4H | 18.3 | 18.9 | 18.7 | 19.2 | 19.5 | 18.0 | 18.5 | 18.3 | 18.8 | 19.1 |
| | 6H | 18.3 | 18.8 | 18.6 | 19.1 | 19.4 | 17.9 | 18.4 | 18.2 | 18.7 | 19.1 |
| | 8H | 18.2 | 18.7 | 18.6 | 19.0 | 19.4 | 17.8 | 18.3 | 18.2 | 18.6 | 19.0 |
| | 12H | 18.2 | 18.6 | 18.6 | 19.0 | 19.4 | 17.8 | 18.2 | 18.2 | 18.6 | 19.0 |
| 8H | 4H | 18.2 | 18.7 | 18.6 | 19.0 | 19.4 | 17.8 | 18.3 | 18.2 | 18.7 | 19.0 |
| | 6H | 18.1 | 18.5 | 18.6 | 18.9 | 19.3 | 17.8 | 18.1 | 18.2 | 18.5 | 19.0 |
| | 8H | 18.1 | 18.4 | 18.6 | 18.9 | 19.3 | 17.7 | 18.1 | 18.2 | 18.5 | 18.9 |
| | 12H | 18.1 | 18.4 | 18.5 | 18.8 | 19.3 | 17.7 | 18.0 | 18.1 | 18.4 | 18.9 |
| 12H | 4H | 18.2 | 18.6 | 18.6 | 19.0 | 19.4 | 17.8 | 18.2 | 18.2 | 18.6 | 19.0 |
| | 6H | 18.1 | 18.4 | 18.5 | 18.8 | 19.3 | 17.7 | 18.1 | 18.2 | 18.5 | 18.9 |
| | 8H | 18.1 | 18.3 | 18.5 | 18.8 | 19.3 | 17.7 | 18.0 | 18.1 | 18.4 | 18.9 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | | |
| S = 1.0H | | + 1.5 / - 2.2 | | | | | + 1.4 / - 2.2 | | | | |
| 1.5H | | + 2.4 / - 1.4 | | | | | + 2.0 / - 1.4 | | | | |
| 2.0H | | + 2.2 / - 1.6 | | | | | + 2.1 / - 1.6 | | | | |

CIE Pub.117, 1422 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.2$)
Area: 0.0038 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|--|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | | WEIGHT: |
| SPEC.: | | SERIAL No.: |
| MFR.: Norming lighting | | Shielding Angle: |

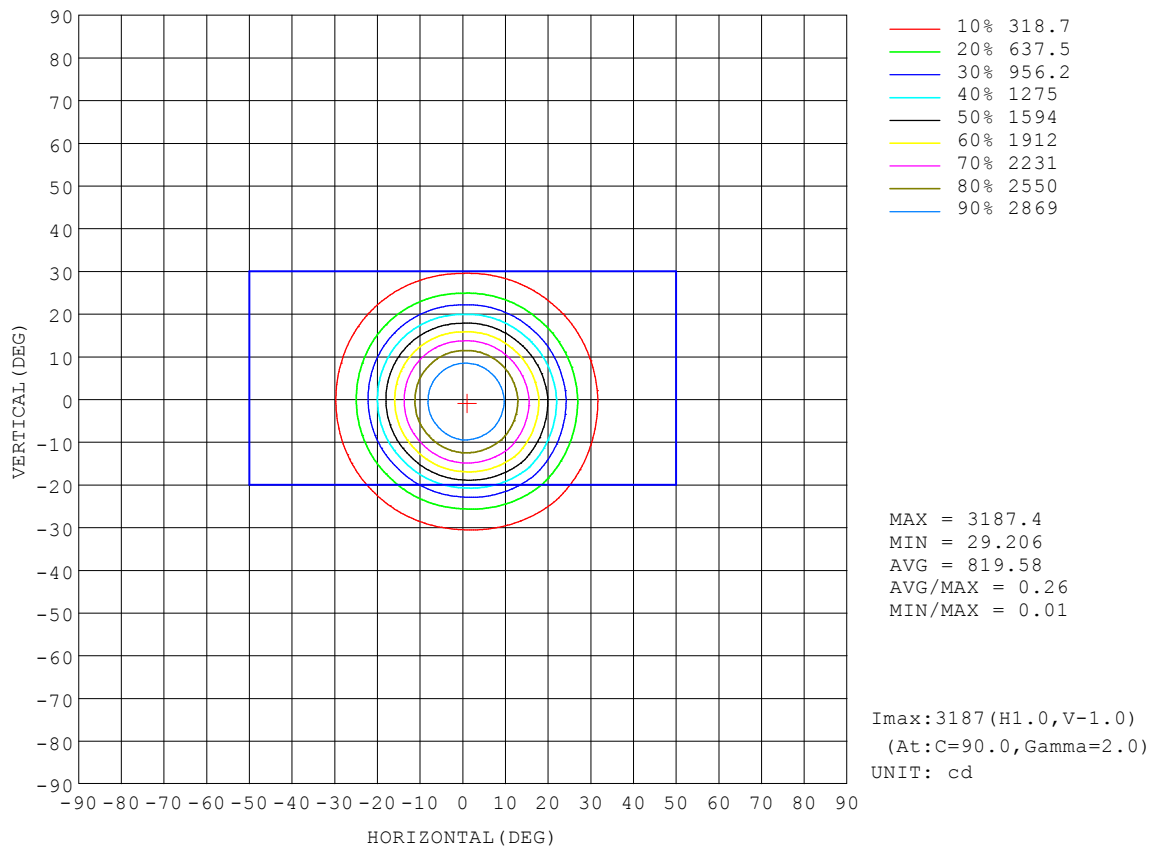
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 87 | 81 | 77 | 86 | 80 | 77 | 86 | 80 | 77 | 73 |
| 0.80 | 94 | 89 | 85 | 94 | 88 | 85 | 93 | 88 | 84 | 81 |
| 1.00 | 99 | 93 | 90 | 98 | 93 | 89 | 97 | 93 | 89 | 85 |
| 1.25 | 103 | 98 | 94 | 102 | 97 | 94 | 100 | 96 | 93 | 89 |
| 1.50 | 106 | 101 | 98 | 104 | 100 | 97 | 102 | 99 | 96 | 91 |
| 2.00 | 108 | 104 | 101 | 107 | 103 | 100 | 104 | 101 | 99 | 94 |
| 2.50 | 110 | 106 | 103 | 109 | 105 | 102 | 105 | 103 | 101 | 95 |
| 3.00 | 112 | 108 | 106 | 110 | 107 | 104 | 107 | 104 | 102 | 96 |
| 4.00 | 114 | 111 | 109 | 112 | 109 | 107 | 108 | 106 | 105 | 98 |
| 5.00 | 115 | 113 | 111 | 113 | 111 | 109 | 109 | 108 | 106 | 99 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-11-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | WEIGHT: | |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

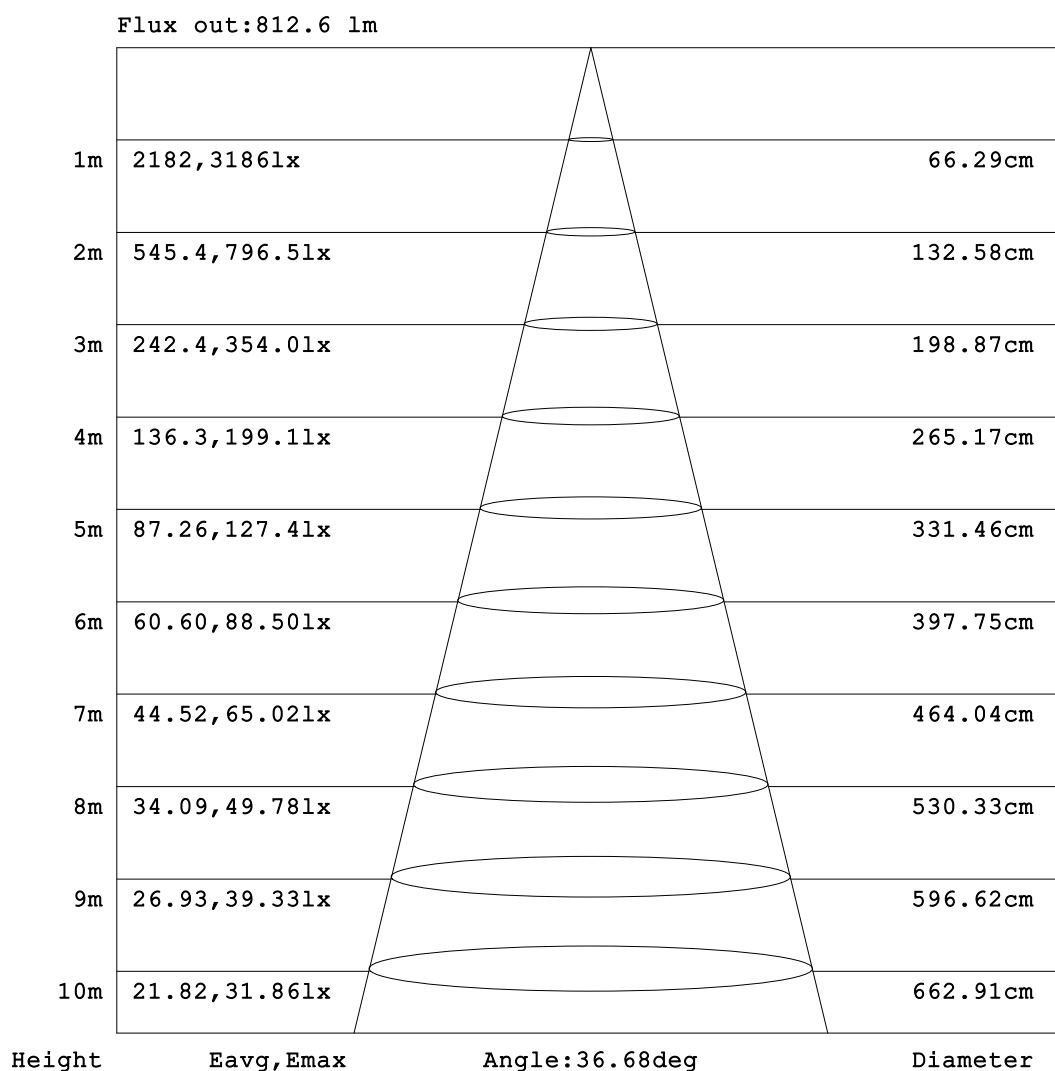


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|------------|------------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 | | Lamp Flux:1422.12x1 lm |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | WEIGHT: | |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |



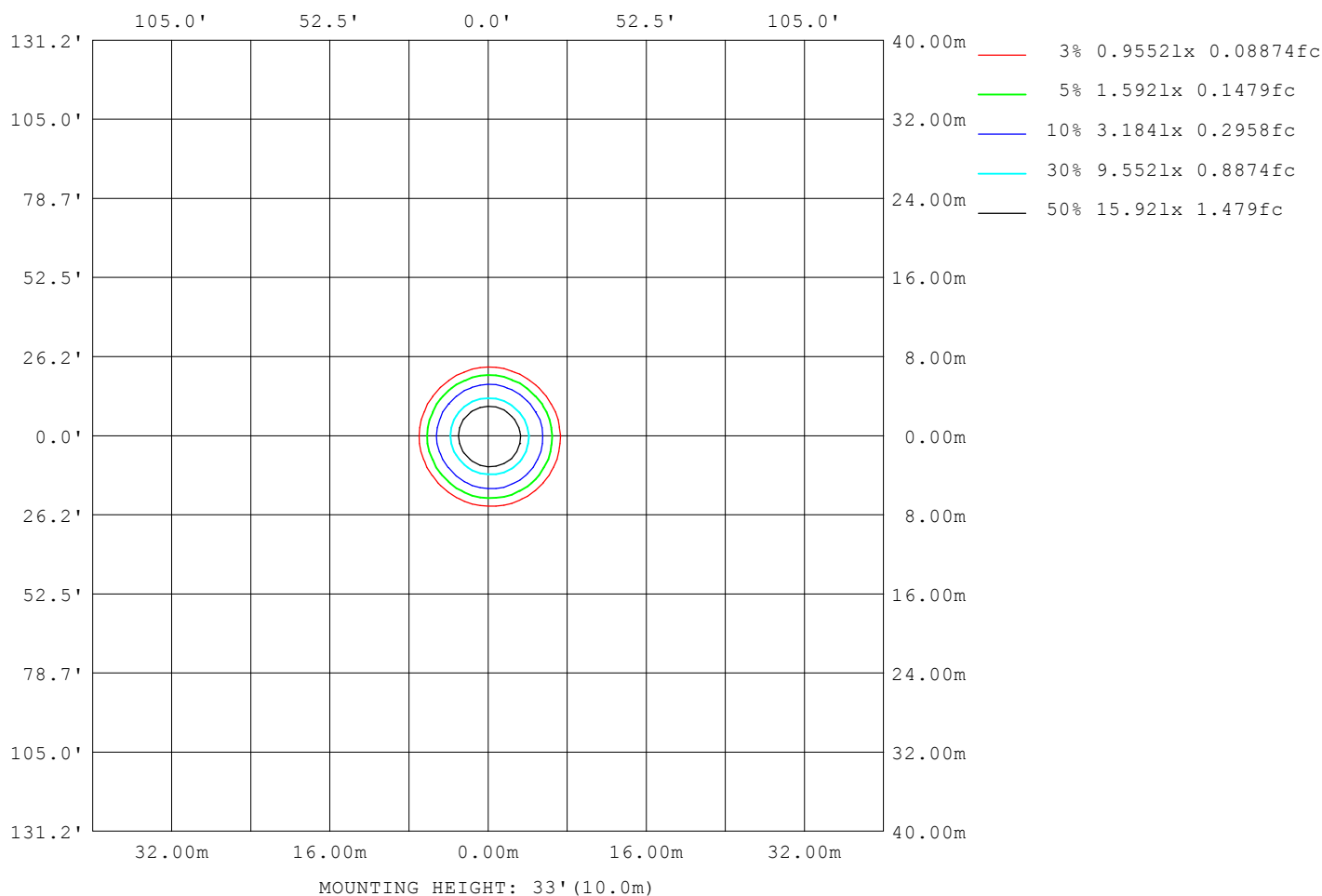
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|------------|------------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 | | Lamp Flux:1422.12x1 lm |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz | | |
| UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D TYPE: | WEIGHT: | |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

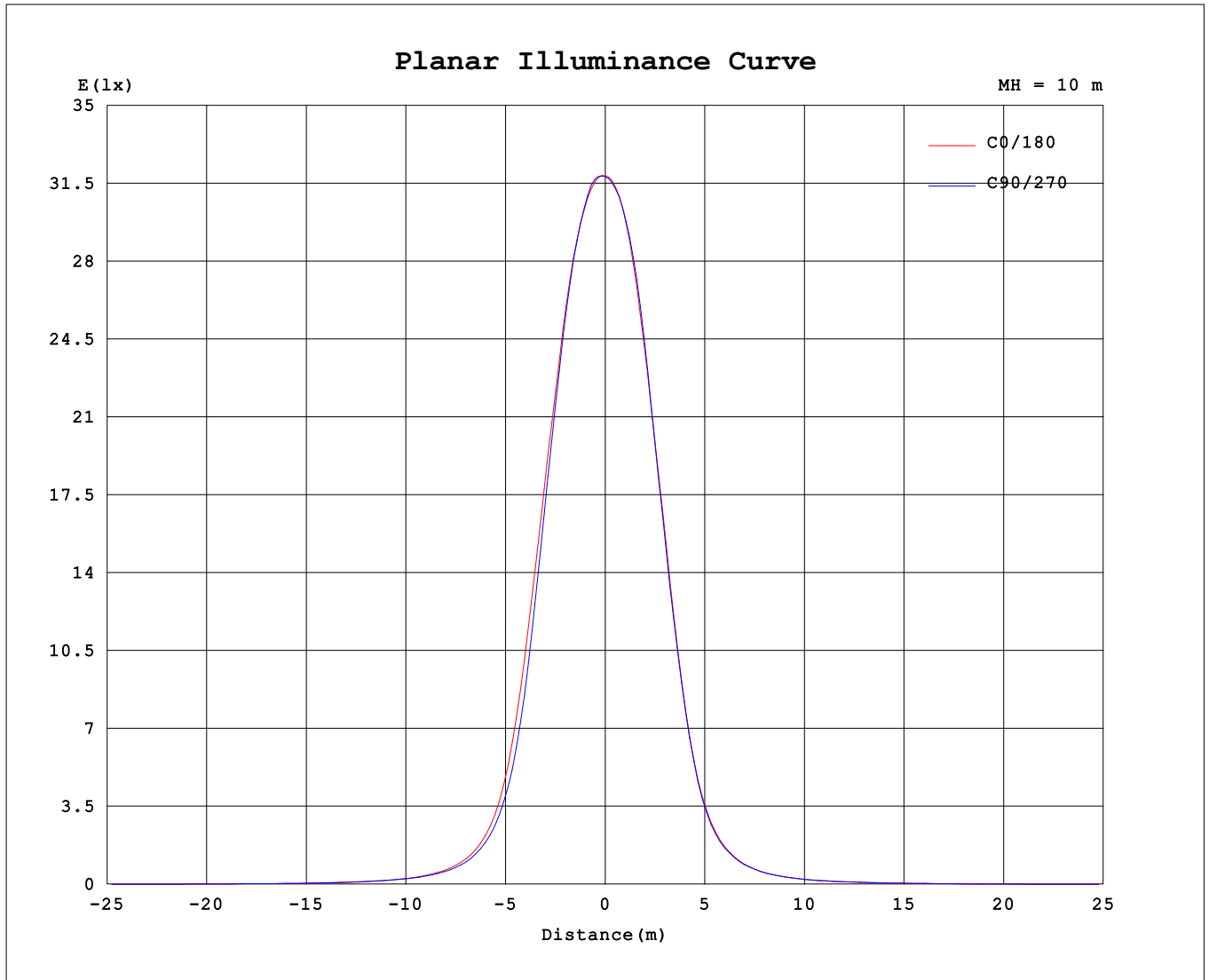
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 9236 |
| L_0~180 (75) av | 2188 |
| L_0~180 (85) av | 981 |
| L_90~270 (65) av | 9281 |
| L_90~270 (75) av | 1929 |
| L_90~270 (85) av | 497 |
| L_45 (65) av | 9196 |
| L_45 (75) av | 2056 |
| L_45 (85) av | 694 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-11-05

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks:

| | | | | | |
|--|--|--|-------------------------------|--|-------------------------|
| Test:U:240.4V I:0.0830A P:19.7W PF:0.9853 Freq:49.99Hz UTHDi:0.16% ITHDi:5.87% KDisp:0.9868 | | | Lamp Flux:1422.12x1 lm | | |
| NAME: FUSION GT-TR01-AHD-020-COB-01DW 3000K RA90 36D 20W | | | TYPE: | | WEIGHT: |
| SPEC.: | | | DIM.: | | SERIAL No.: |
| MFR.: Norming lighting | | | SUR.: 70mm | | Shielding Angle: |

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

| G/C | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | 225.0 | 270.0 | 315.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 3181 | 3181 | 3181 | 3181 | 3181 | 3181 | 3181 | 3181 |
| 3.0 | 3164 | 3178 | 3182 | 3164 | 3142 | 3136 | 3139 | 3147 |
| 6.0 | 3080 | 3101 | 3091 | 3050 | 3018 | 3010 | 3031 | 3054 |
| 9.0 | 2921 | 2933 | 2914 | 2836 | 2783 | 2783 | 2823 | 2872 |
| 12.0 | 2651 | 2666 | 2616 | 2508 | 2449 | 2441 | 2471 | 2565 |
| 15.0 | 2299 | 2328 | 2219 | 2089 | 2046 | 2032 | 2031 | 2154 |
| 18.0 | 1889 | 1921 | 1743 | 1601 | 1591 | 1584 | 1564 | 1689 |
| 21.0 | 1427 | 1456 | 1229 | 1105 | 1118 | 1117 | 1110 | 1222 |
| 24.0 | 983.8 | 995.9 | 806.8 | 721.7 | 731.4 | 727.4 | 724.5 | 807.4 |
| 27.0 | 630.5 | 636.3 | 523.2 | 468.4 | 468.0 | 457.0 | 456.0 | 510.5 |
| 30.0 | 401.8 | 409.2 | 342.3 | 308.3 | 305.5 | 294.6 | 296.2 | 329.8 |
| 33.0 | 265.0 | 270.7 | 232.0 | 212.7 | 209.7 | 199.7 | 202.3 | 221.8 |
| 36.0 | 183.6 | 187.5 | 163.9 | 149.7 | 147.1 | 142.1 | 144.8 | 156.0 |
| 39.0 | 132.1 | 134.8 | 120.0 | 110.3 | 108.4 | 105.1 | 107.6 | 113.5 |
| 42.0 | 97.99 | 100.1 | 91.48 | 83.83 | 82.56 | 80.98 | 82.39 | 86.08 |
| 45.0 | 75.22 | 76.38 | 70.89 | 65.43 | 64.54 | 63.45 | 64.25 | 66.26 |
| 48.0 | 58.63 | 59.52 | 56.16 | 52.14 | 52.11 | 51.15 | 52.55 | 52.91 |
| 51.0 | 48.00 | 47.56 | 45.23 | 42.35 | 42.15 | 41.61 | 42.61 | 44.07 |
| 54.0 | 38.55 | 38.60 | 37.16 | 34.57 | 33.89 | 33.38 | 34.43 | 35.34 |
| 57.0 | 30.83 | 31.34 | 30.34 | 28.41 | 27.87 | 27.46 | 27.76 | 28.34 |
| 60.0 | 25.11 | 25.62 | 24.82 | 22.75 | 21.94 | 22.08 | 22.87 | 23.29 |
| 63.0 | 20.28 | 20.44 | 18.85 | 16.98 | 16.46 | 16.66 | 17.63 | 18.68 |
| 66.0 | 15.39 | 15.34 | 13.49 | 11.52 | 11.05 | 11.53 | 12.92 | 14.09 |
| 69.0 | 10.80 | 10.31 | 8.621 | 7.434 | 7.006 | 7.539 | 8.501 | 9.780 |
| 72.0 | 6.942 | 6.313 | 3.848 | 2.753 | 2.492 | 2.814 | 4.366 | 6.176 |
| 75.0 | 2.757 | 2.350 | 1.820 | 1.611 | 1.547 | 1.684 | 1.975 | 2.445 |
| 78.0 | 1.759 | 1.561 | 1.294 | 1.090 | 1.050 | 1.153 | 1.388 | 1.600 |
| 81.0 | 1.291 | 1.132 | 0.8823 | 0.6627 | 0.5808 | 0.7134 | 0.9563 | 1.156 |
| 84.0 | 0.8083 | 0.6058 | 0.2511 | 0.1270 | 0.1321 | 0.1366 | 0.3347 | 0.6387 |
| 87.0 | 0.1687 | 0.1206 | 0.0985 | 0.0491 | 0.0545 | 0.0544 | 0.1059 | 0.1265 |
| 90.0 | 0.0700 | 0.0411 | 0.0534 | 0.0357 | 0.0411 | 0.0353 | 0.0402 | 0.0457 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks: