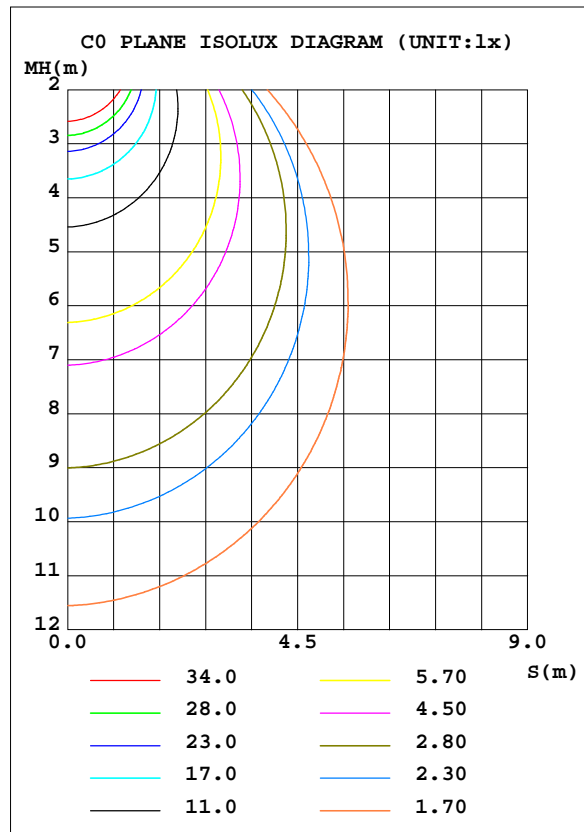
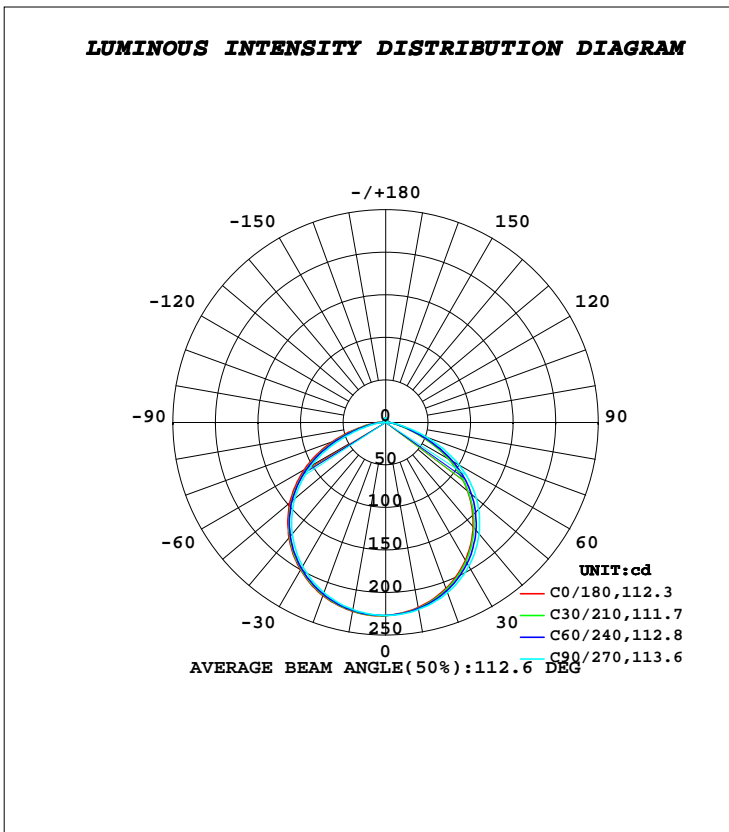


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|------------------|---------|------------------|--------|--------------------|----------|
| MODEL | | Imax(cd) | 227.5 | S/MH(C0/180) | 1.23 |
| NOMINAL POWER(W) | 8.6 | LOR(%) | 100.0 | S/MH(C90/270) | 1.28 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 659.28 | η UP, DN(C0-180) | 1.7,47.4 |
| NOMINAL FLUX(lm) | 659.284 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 1.8,49.2 |
| LAMPS INSIDE | 1 | η up(%) | 3.5 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 24 | η down(%) | 96.5 | CIBSE SHR MAX | 1.35 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

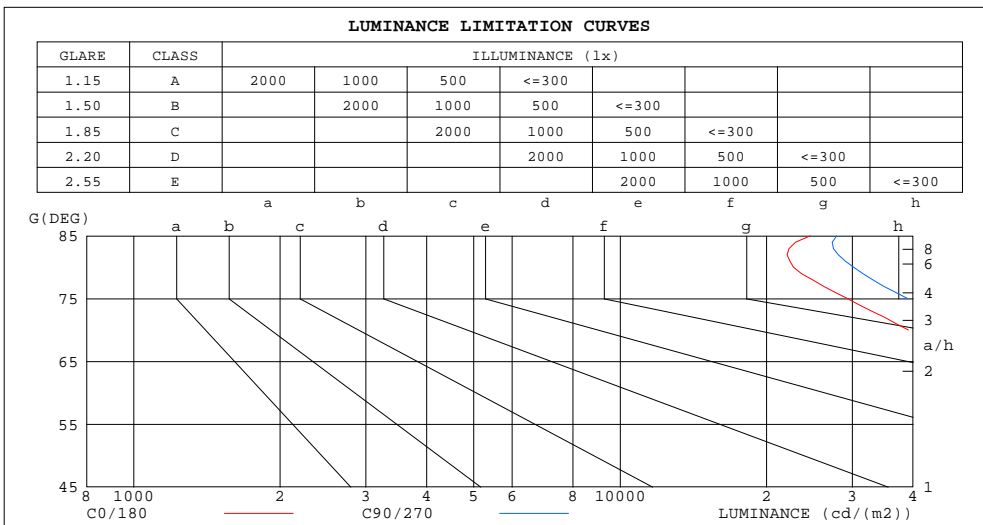
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 220.8 | 221.9 | 223.3 | 224.6 | 225.4 | 224.5 | 223.1 | 222.1 | 0- 10 | 21.48 | 21.48 | 3.26,3.26 |
| 20 | 207.6 | 209.6 | 212.7 | 215.2 | 216.5 | 215.1 | 212.7 | 210.1 | 10- 20 | 61.75 | 83.24 | 12.6,12.6 |
| 30 | 187.3 | 190.0 | 195.3 | 198.6 | 200.0 | 198.6 | 195.4 | 190.7 | 20- 30 | 94.20 | 177.4 | 26.9,26.9 |
| 40 | 160.0 | 163.4 | 170.9 | 174.7 | 177.0 | 175.0 | 171.0 | 164.1 | 30- 40 | 114.4 | 291.8 | 44.3,44.3 |
| 50 | 126.1 | 129.4 | 139.2 | 143.6 | 147.2 | 144.3 | 139.7 | 130.4 | 40- 50 | 118.8 | 410.6 | 62.3,62.3 |
| 60 | 85.03 | 87.52 | 99.23 | 105.1 | 110.2 | 106.0 | 100.3 | 89.19 | 50- 60 | 105.5 | 516.2 | 78.3,78.3 |
| 70 | 40.15 | 41.12 | 51.55 | 60.36 | 66.78 | 61.40 | 53.31 | 44.59 | 60- 70 | 74.13 | 590.3 | 89.5,89.5 |
| 80 | 11.84 | 12.30 | 15.74 | 22.53 | 26.76 | 22.96 | 16.92 | 14.16 | 70- 80 | 34.96 | 625.2 | 94.8,94.8 |
| 90 | 4.316 | 4.284 | 1.666 | 6.503 | 8.062 | 6.700 | 2.013 | 4.812 | 80- 90 | 11.10 | 636.3 | 96.5,96.5 |
| 100 | 3.774 | 3.089 | 1.816 | 3.231 | 4.192 | 3.435 | 2.117 | 3.356 | 90-100 | 4.170 | 640.5 | 97.2,97.2 |
| 110 | 3.595 | 2.921 | 2.342 | 2.734 | 3.459 | 2.923 | 2.559 | 3.141 | 100-110 | 3.182 | 643.7 | 97.6,97.6 |
| 120 | 3.678 | 3.173 | 2.881 | 2.993 | 3.311 | 3.134 | 3.033 | 3.293 | 110-120 | 3.017 | 646.7 | 98.1,98.1 |
| 130 | 3.863 | 3.515 | 3.385 | 3.449 | 3.574 | 3.535 | 3.487 | 3.596 | 120-130 | 2.999 | 649.7 | 98.5,98.5 |
| 140 | 4.187 | 3.950 | 3.891 | 3.921 | 3.947 | 3.959 | 3.937 | 3.978 | 130-140 | 2.903 | 652.6 | 99,99 |
| 150 | 4.538 | 4.418 | 4.395 | 4.378 | 4.290 | 4.379 | 4.407 | 4.414 | 140-150 | 2.621 | 655.2 | 99.4,99.4 |
| 160 | 4.935 | 4.853 | 4.857 | 4.833 | 4.743 | 4.802 | 4.847 | 4.835 | 150-160 | 2.133 | 657.4 | 99.7,99.7 |
| 170 | 5.233 | 5.183 | 5.206 | 5.188 | 5.075 | 5.113 | 5.166 | 5.128 | 160-170 | 1.414 | 658.8 | 99.9,99.9 |
| 180 | 5.349 | 5.332 | 5.368 | 5.356 | 5.350 | 5.333 | 5.367 | 5.356 | 170-180 | 0.5001 | 659.3 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 24560 | 27883 |
| 80 | 22721 | 30205 |
| 75 | 29323 | 39002 |
| 70 | 39126 | 50244 |
| 65 | 49150 | 59624 |
| 60 | 56686 | 66156 |
| 55 | 61910 | 69944 |
| 50 | 65370 | 72187 |
| 45 | 67843 | 73503 |

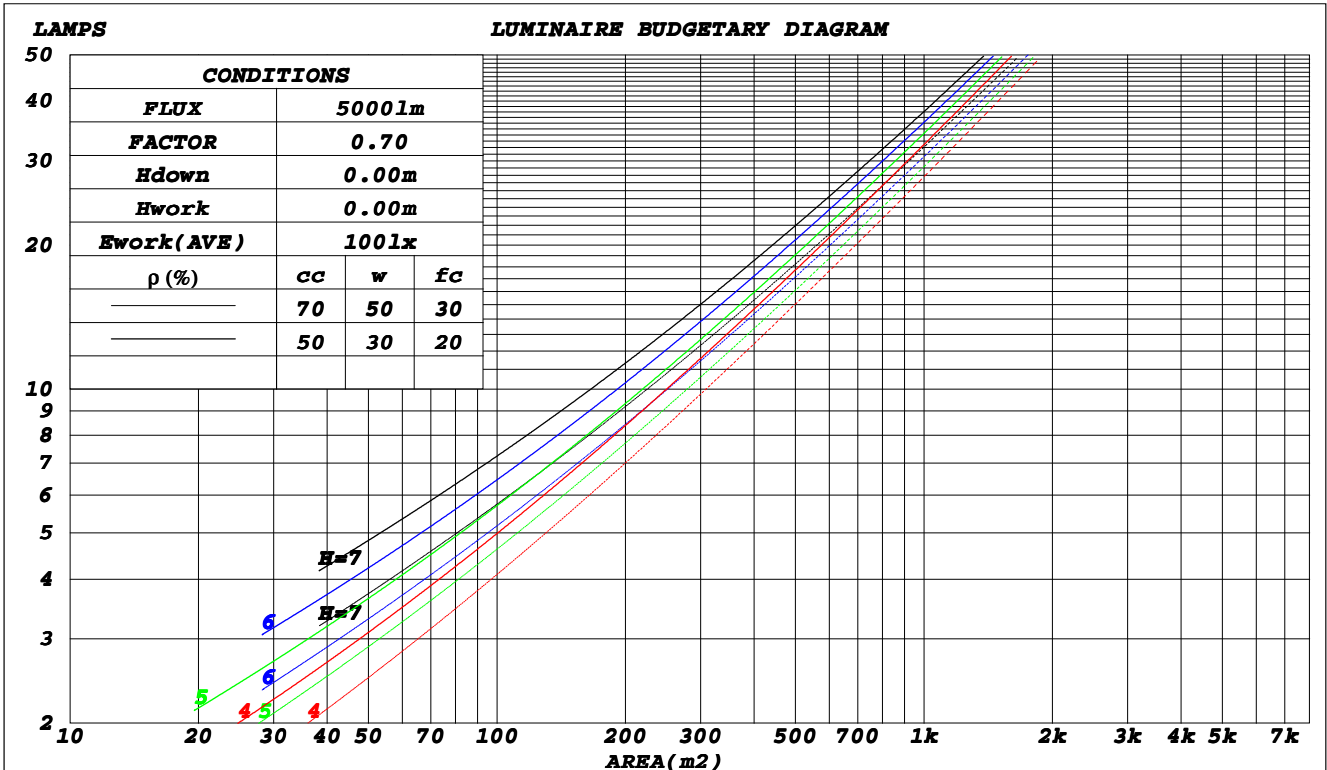
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

| 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 | 1.18 | 1.18 | 1.18 | 1.15 | 1.15 | 1.15 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 | .97 |
| 1.0 | 1.04 | .00 | .96 | 1.01 | .97 | .94 | .96 | .93 | .90 | .92 | .89 | .87 | .88 | .86 | .84 | .81 |
| 2.0 | .91 | .84 | .78 | .88 | .82 | .77 | .84 | .79 | .75 | .81 | .76 | .73 | .77 | .74 | .71 | .68 |
| 3.0 | .80 | .72 | .65 | .78 | .70 | .65 | .74 | .68 | .63 | .71 | .66 | .61 | .68 | .64 | .60 | .58 |
| 4.0 | .71 | .62 | .55 | .69 | .61 | .55 | .66 | .59 | .54 | .63 | .57 | .53 | .61 | .56 | .52 | .49 |
| 5.0 | .63 | .54 | .48 | .62 | .53 | .47 | .59 | .52 | .46 | .57 | .51 | .46 | .55 | .49 | .45 | .43 |
| 6.0 | .57 | .48 | .42 | .56 | .47 | .41 | .54 | .46 | .41 | .51 | .45 | .40 | .50 | .44 | .39 | .37 |
| 7.0 | .51 | .43 | .37 | .50 | .42 | .36 | .49 | .41 | .36 | .47 | .40 | .35 | .45 | .39 | .35 | .33 |
| 8.0 | .47 | .38 | .33 | .46 | .38 | .32 | .44 | .37 | .32 | .43 | .36 | .32 | .42 | .36 | .31 | .29 |
| 9.0 | .43 | .35 | .29 | .42 | .35 | .29 | .41 | .34 | .29 | .40 | .33 | .29 | .38 | .32 | .28 | .26 |
| 10.0 | .40 | .32 | .27 | .39 | .32 | .26 | .38 | .31 | .26 | .37 | .30 | .26 | .36 | .30 | .26 | .24 |



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-03-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

WEC AND CCEC

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

| 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 | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .298 | .169 | .054 | .290 | .165 | .053 | .275 | .158 | .050 | .261 | .150 | .048 | .248 | .144 | .046 | |
| 2.0 | .282 | .155 | .047 | .275 | .151 | .047 | .261 | .145 | .045 | .249 | .140 | .044 | .238 | .134 | .042 | |
| 3.0 | .262 | .140 | .042 | .256 | .137 | .041 | .244 | .132 | .040 | .233 | .128 | .039 | .223 | .123 | .038 | |
| 4.0 | .243 | .126 | .037 | .238 | .124 | .037 | .227 | .120 | .036 | .217 | .117 | .035 | .208 | .113 | .034 | |
| 5.0 | .226 | .115 | .033 | .221 | .113 | .033 | .211 | .110 | .032 | .202 | .107 | .032 | .194 | .104 | .031 | |
| 6.0 | .210 | .105 | .030 | .205 | .104 | .030 | .197 | .101 | .029 | .189 | .098 | .029 | .181 | .095 | .028 | |
| 7.0 | .196 | .097 | .027 | .192 | .095 | .027 | .184 | .093 | .027 | .177 | .091 | .026 | .170 | .088 | .026 | |
| 8.0 | .183 | .089 | .025 | .179 | .088 | .025 | .172 | .086 | .025 | .166 | .084 | .024 | .160 | .082 | .024 | |
| 9.0 | .172 | .083 | .023 | .168 | .082 | .023 | .162 | .080 | .023 | .156 | .078 | .022 | .151 | .076 | .022 | |
| 10.0 | .162 | .078 | .022 | .159 | .077 | .021 | .153 | .075 | .021 | .147 | .073 | .021 | .142 | .072 | .021 | |

| 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 | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .217 | .217 | .217 | .185 | .185 | .185 | .127 | .127 | .127 | .073 | .073 | .073 | .023 | .023 | .023 | |
| 1.0 | .206 | .183 | .162 | .176 | .157 | .139 | .121 | .108 | .096 | .069 | .063 | .056 | .022 | .020 | .018 | |
| 2.0 | .198 | .159 | .126 | .169 | .137 | .109 | .116 | .095 | .076 | .067 | .055 | .045 | .021 | .018 | .015 | |
| 3.0 | .190 | .141 | .102 | .163 | .122 | .089 | .112 | .085 | .062 | .065 | .049 | .037 | .021 | .016 | .012 | |
| 4.0 | .183 | .128 | .086 | .157 | .111 | .075 | .108 | .077 | .053 | .062 | .045 | .031 | .020 | .015 | .010 | |
| 5.0 | .175 | .118 | .075 | .151 | .102 | .065 | .104 | .071 | .046 | .060 | .042 | .027 | .019 | .014 | .009 | |
| 6.0 | .168 | .109 | .067 | .145 | .095 | .058 | .100 | .066 | .041 | .058 | .039 | .025 | .019 | .013 | .008 | |
| 7.0 | .162 | .102 | .061 | .139 | .089 | .053 | .096 | .062 | .038 | .056 | .037 | .022 | .018 | .012 | .007 | |
| 8.0 | .155 | .097 | .056 | .134 | .084 | .049 | .093 | .059 | .035 | .054 | .035 | .021 | .017 | .011 | .007 | |
| 9.0 | .149 | .092 | .053 | .129 | .080 | .046 | .089 | .056 | .033 | .052 | .033 | .020 | .017 | .011 | .006 | |
| 10.0 | .144 | .088 | .050 | .124 | .076 | .044 | .086 | .054 | .031 | .050 | .032 | .019 | .016 | .010 | .006 | |

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2019-03-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

UGR(Unified Glare Rating) Table

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

| 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 | 26.6 | 28.1 | 27.0 | 28.4 | 28.6 | 27.2 | 28.6 | 27.5 | 28.9 | 29.2 |
| 3H | 27.6 | 28.9 | 27.9 | 29.2 | 29.5 | 28.3 | 29.6 | 28.6 | 29.9 | 30.2 |
| 4H | 27.8 | 29.0 | 28.1 | 29.3 | 29.7 | 28.6 | 29.9 | 29.0 | 30.2 | 30.5 |
| 6H | 27.9 | 29.0 | 28.2 | 29.4 | 29.7 | 28.8 | 29.9 | 29.1 | 30.3 | 30.6 |
| 8H | 27.9 | 29.0 | 28.3 | 29.4 | 29.7 | 28.8 | 29.9 | 29.2 | 30.3 | 30.6 |
| 12H | 27.9 | 29.0 | 28.3 | 29.3 | 29.7 | 28.8 | 29.9 | 29.2 | 30.3 | 30.6 |
| 4H 2H | 27.1 | 28.4 | 27.5 | 28.7 | 29.0 | 27.5 | 28.8 | 27.9 | 29.1 | 29.5 |
| 3H | 28.1 | 29.2 | 28.5 | 29.6 | 30.0 | 28.8 | 29.9 | 29.2 | 30.2 | 30.6 |
| 4H | 28.4 | 29.4 | 28.8 | 29.8 | 30.2 | 29.1 | 30.1 | 29.6 | 30.5 | 30.9 |
| 6H | 28.6 | 29.5 | 29.0 | 29.9 | 30.3 | 29.4 | 30.3 | 29.8 | 30.7 | 31.1 |
| 8H | 28.6 | 29.4 | 29.1 | 29.9 | 30.3 | 29.4 | 30.3 | 29.9 | 30.7 | 31.2 |
| 12H | 28.7 | 29.4 | 29.1 | 29.9 | 30.3 | 29.5 | 30.3 | 30.0 | 30.7 | 31.2 |
| 8H 4H | 28.5 | 29.3 | 28.9 | 29.7 | 30.2 | 29.2 | 30.0 | 29.6 | 30.4 | 30.9 |
| 6H | 28.7 | 29.4 | 29.2 | 29.9 | 30.4 | 29.5 | 30.2 | 30.0 | 30.6 | 31.1 |
| 8H | 28.8 | 29.4 | 29.3 | 29.9 | 30.4 | 29.6 | 30.2 | 30.1 | 30.7 | 31.2 |
| 12H | 28.9 | 29.5 | 29.5 | 30.0 | 30.5 | 29.7 | 30.2 | 30.2 | 30.7 | 31.3 |
| 12H 4H | 28.5 | 29.2 | 28.9 | 29.7 | 30.1 | 29.1 | 29.9 | 29.6 | 30.3 | 30.8 |
| 6H | 28.7 | 29.3 | 29.2 | 29.8 | 30.3 | 29.5 | 30.1 | 30.0 | 30.6 | 31.1 |
| 8H | 28.9 | 29.4 | 29.4 | 29.9 | 30.4 | 29.6 | 30.1 | 30.1 | 30.6 | 31.2 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.3 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 1.5H | + 0.3 / - 0.5 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.5 / - 0.4 | | | | | + 0.5 / - 0.6 | | | | |

CIE Pub.117, 659.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.4)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

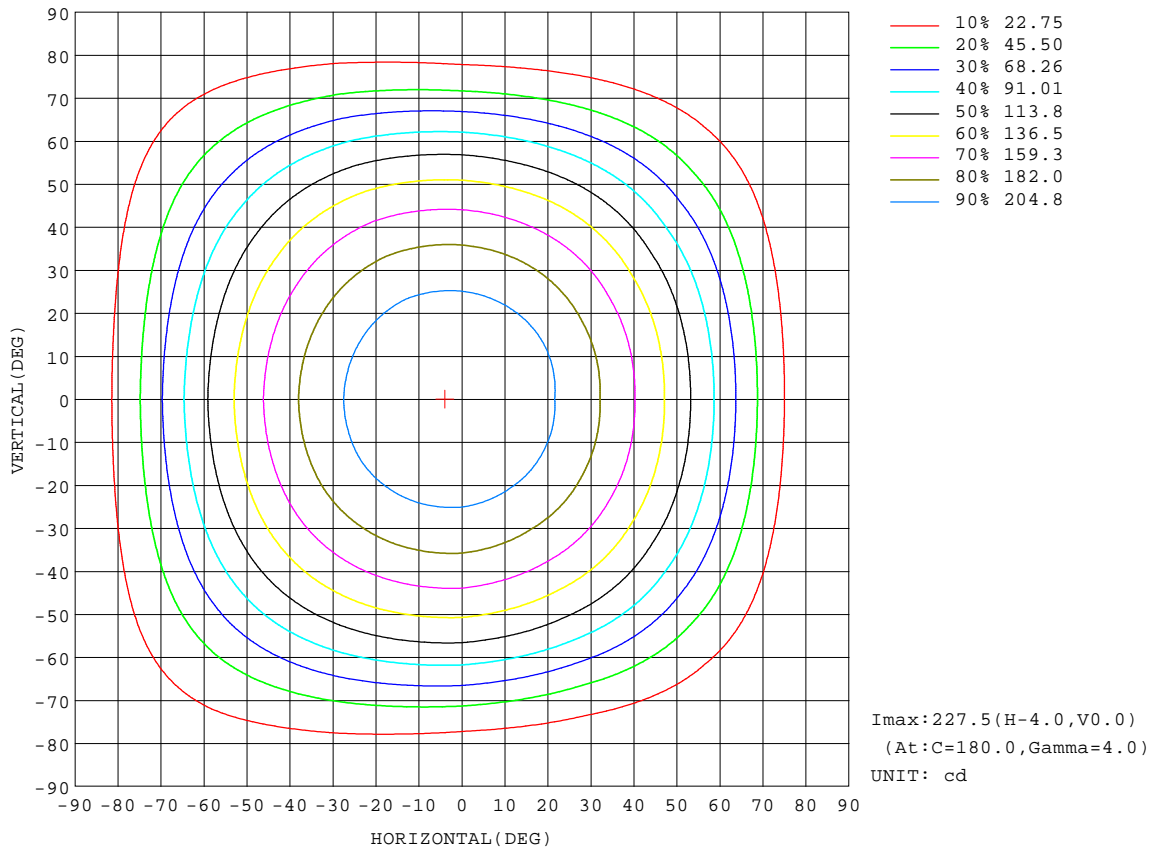
| REFLECTANCE | | | | | | | | | | |
|---|---|-----|------------------|-----|-----|-----|---------------------|-----|-----|---------------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 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 | 57 | 45 | 39 | 56 | 45 | 38 | 55 | 45 | 38 | 32 |
| 0.80 | 67 | 56 | 48 | 66 | 55 | 48 | 64 | 54 | 48 | 41 |
| 1.00 | 76 | 65 | 57 | 74 | 64 | 57 | 72 | 65 | 56 | 49 |
| 1.25 | 83 | 72 | 65 | 81 | 72 | 65 | 78 | 70 | 64 | 56 |
| 1.50 | 88 | 78 | 71 | 86 | 77 | 71 | 83 | 75 | 69 | 61 |
| 2.00 | 95 | 86 | 80 | 93 | 85 | 79 | 89 | 82 | 77 | 69 |
| 2.50 | 98 | 91 | 85 | 96 | 89 | 84 | 92 | 86 | 81 | 73 |
| 3.00 | 102 | 95 | 90 | 99 | 93 | 88 | 95 | 90 | 86 | 76 |
| 4.00 | 106 | 100 | 95 | 103 | 98 | 94 | 98 | 94 | 91 | 81 |
| 5.00 | 108 | 103 | 99 | 105 | 101 | 97 | 100 | 97 | 94 | 84 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNM = 1.25 | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |



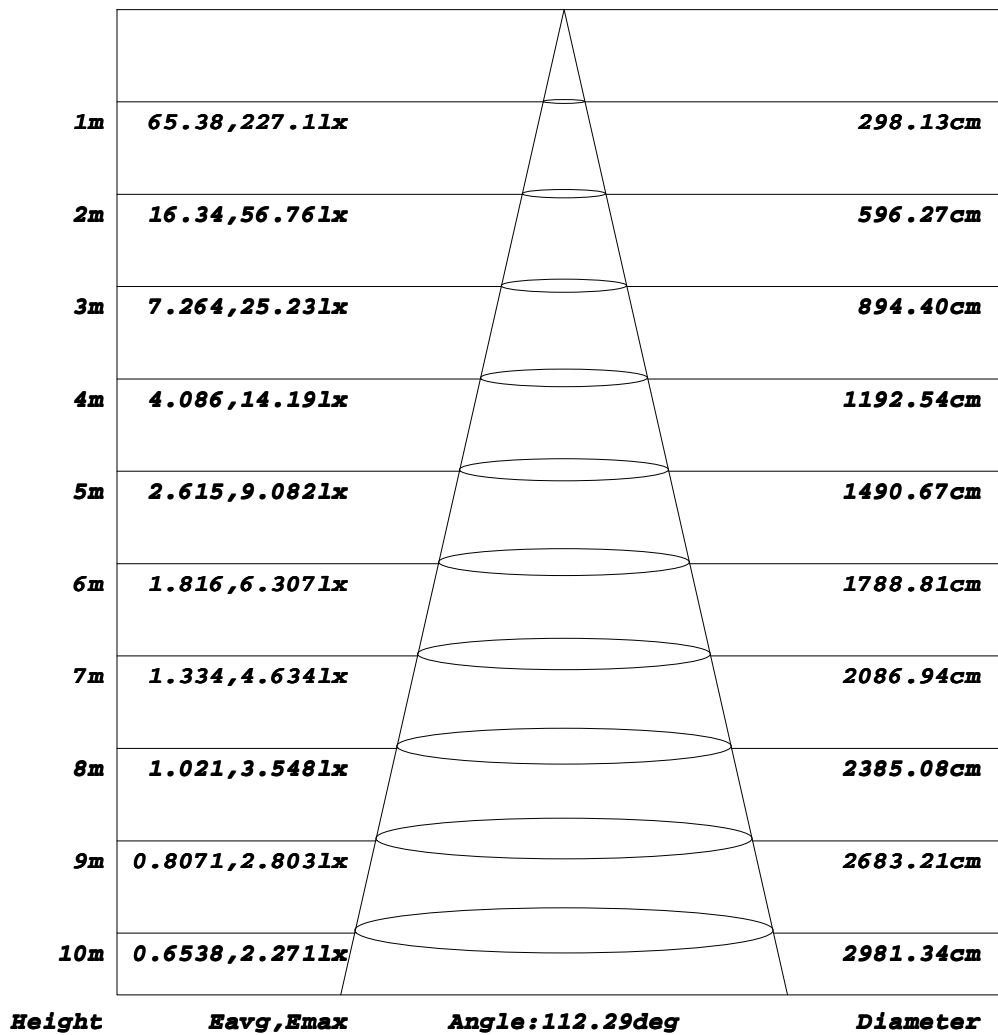
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

AAI Figure

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

Flux out:487.0 lm



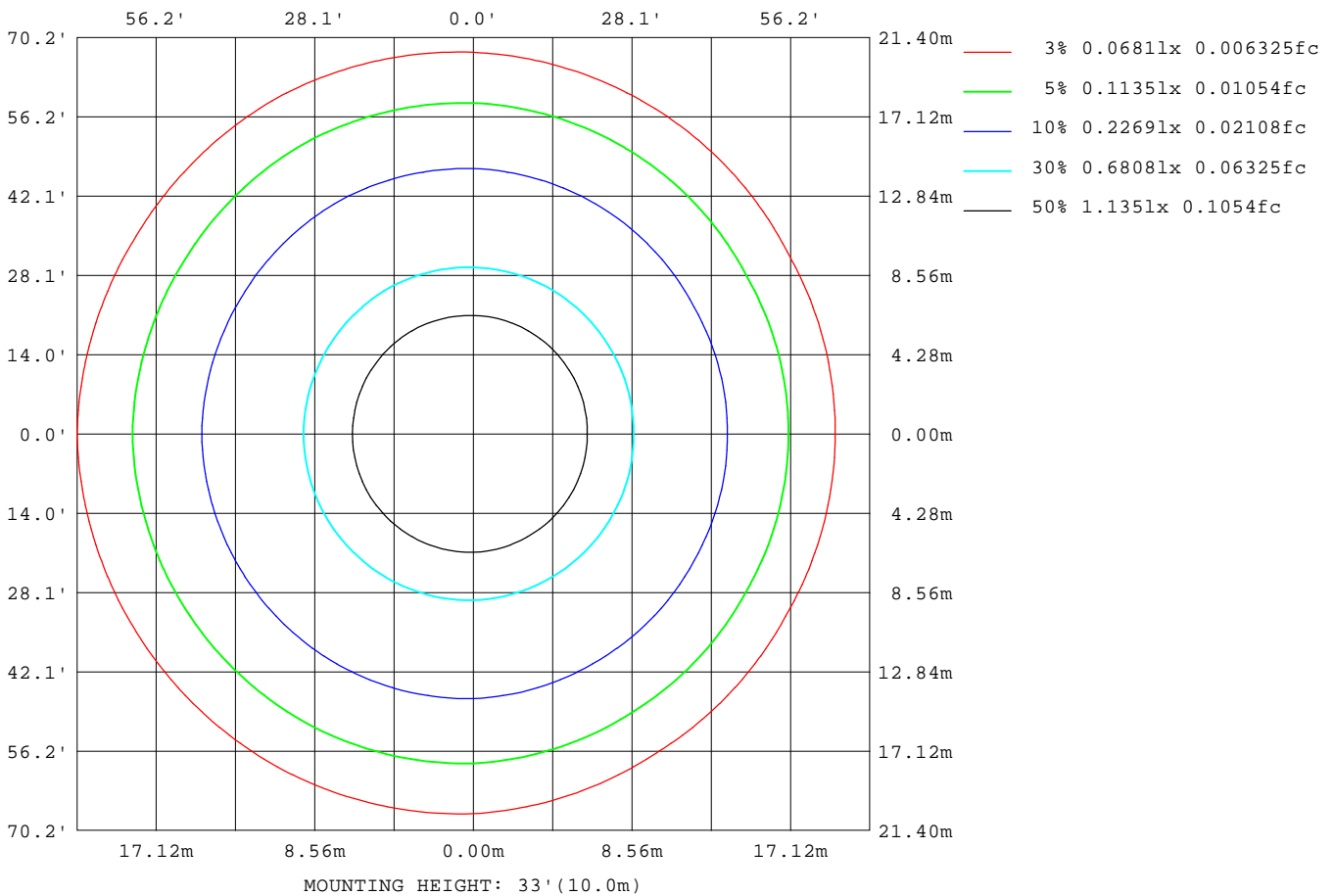
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2019-03-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

ISOLUX DIAGRAM

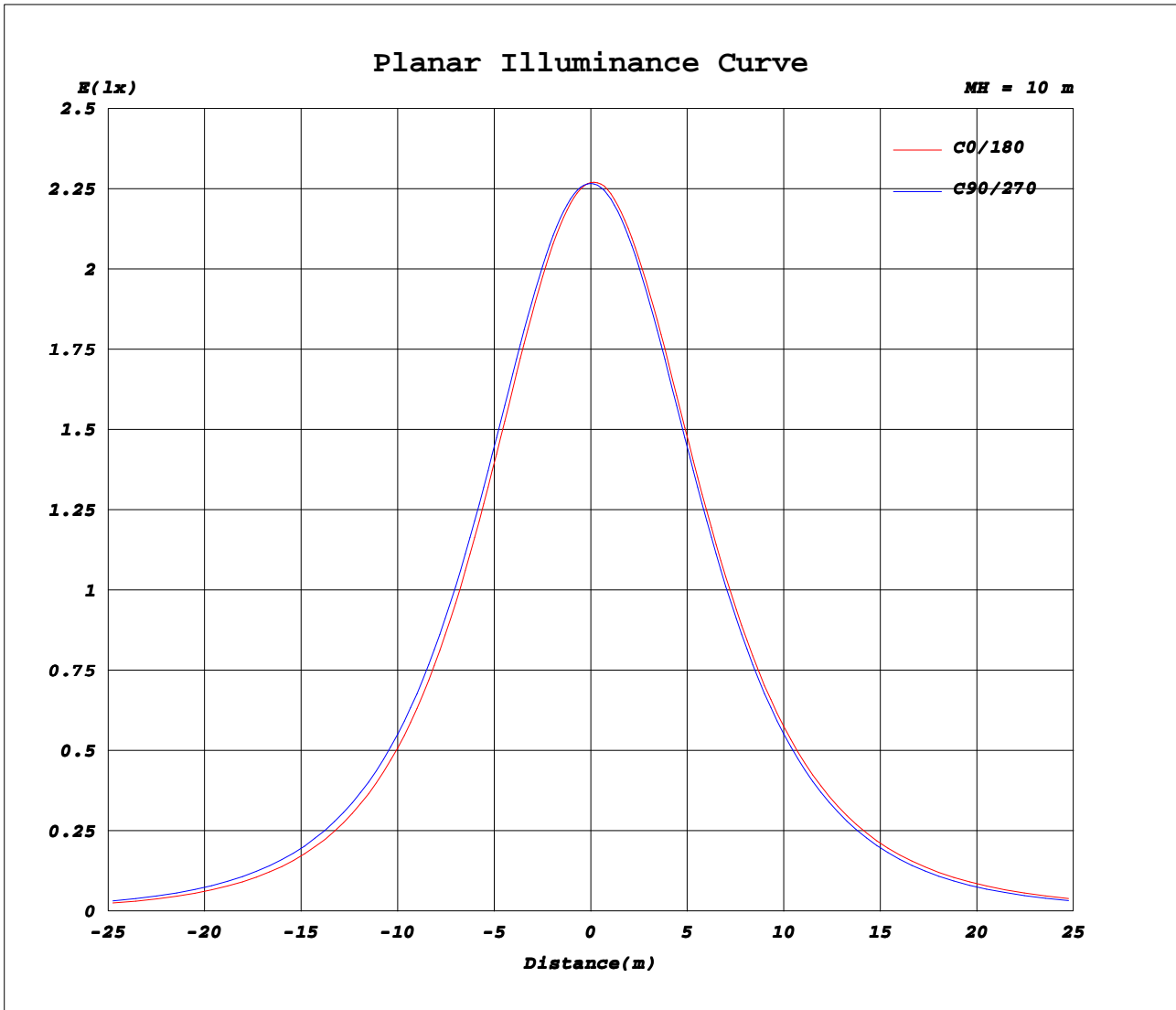
| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2019-03-31

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------|--|
| Test:U:24.000V I:0.3630A P:8.6000W PF:1.0000 Freq:0Hz Lamp Flux:659.284x1 lm | | |
| NAME: 127-089 | TYPE:LED | |
| MFR.: Tronix Lighting | | |
| | | |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|
| 0 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | | | | | | | |
| 5 | 225 | 225 | 225 | 226 | 226 | 227 | 227 | 227 | 226 | 226 | 226 | 225 | | | | | | | |
| 10 | 221 | 222 | 222 | 223 | 224 | 225 | 225 | 225 | 224 | 223 | 222 | 222 | | | | | | | |
| 15 | 215 | 216 | 217 | 219 | 220 | 221 | 222 | 221 | 220 | 219 | 218 | 216 | | | | | | | |
| 20 | 208 | 209 | 210 | 213 | 214 | 216 | 216 | 216 | 215 | 213 | 211 | 209 | | | | | | | |
| 25 | 198 | 200 | 202 | 205 | 207 | 209 | 209 | 208 | 207 | 205 | 202 | 200 | | | | | | | |
| 30 | 187 | 189 | 191 | 195 | 198 | 200 | 200 | 199 | 198 | 195 | 192 | 189 | | | | | | | |
| 35 | 174 | 176 | 179 | 184 | 186 | 189 | 189 | 188 | 187 | 184 | 180 | 176 | | | | | | | |
| 40 | 160 | 162 | 165 | 171 | 174 | 176 | 177 | 175 | 175 | 171 | 167 | 162 | | | | | | | |
| 45 | 144 | 145 | 149 | 156 | 159 | 161 | 163 | 161 | 160 | 156 | 151 | 145 | | | | | | | |
| 50 | 126 | 127 | 132 | 139 | 142 | 145 | 147 | 145 | 144 | 140 | 134 | 127 | | | | | | | |
| 55 | 107 | 107 | 112 | 120 | 124 | 127 | 129 | 126 | 126 | 121 | 114 | 107 | | | | | | | |
| 60 | 85.0 | 84.8 | 90.2 | 99.2 | 103 | 107 | 110 | 106 | 106 | 100 | 92.9 | 85.5 | | | | | | | |
| 65 | 62.3 | 61.4 | 66.3 | 75.6 | 81.2 | 85.1 | 89.4 | 85.1 | 83.5 | 77.4 | 70.1 | 63.2 | | | | | | | |
| 70 | 40.1 | 39.4 | 42.9 | 51.6 | 58.0 | 62.8 | 66.8 | 62.7 | 60.1 | 53.3 | 47.5 | 41.6 | | | | | | | |
| 75 | 22.8 | 22.2 | 24.6 | 30.3 | 36.6 | 41.5 | 44.8 | 41.1 | 38.3 | 31.8 | 28.2 | 24.3 | | | | | | | |
| 80 | 11.8 | 11.8 | 12.8 | 15.7 | 20.5 | 24.5 | 26.8 | 24.2 | 21.7 | 16.9 | 15.3 | 13.0 | | | | | | | |
| 85 | 6.42 | 6.49 | 6.86 | 7.29 | 10.9 | 13.4 | 14.8 | 13.1 | 11.6 | 8.11 | 8.13 | 7.16 | | | | | | | |
| 90 | 4.32 | 4.39 | 4.18 | 1.67 | 5.75 | 7.26 | 8.06 | 7.25 | 6.15 | 2.01 | 4.84 | 4.78 | | | | | | | |
| 95 | 3.89 | 3.82 | 3.15 | 1.58 | 3.60 | 4.69 | 5.21 | 4.86 | 3.96 | 1.93 | 3.50 | 4.11 | | | | | | | |
| 100 | 3.77 | 3.56 | 2.61 | 1.82 | 2.69 | 3.77 | 4.19 | 3.97 | 2.90 | 2.12 | 2.89 | 3.82 | | | | | | | |
| 105 | 3.67 | 3.37 | 2.48 | 2.07 | 2.36 | 3.31 | 3.75 | 3.52 | 2.56 | 2.33 | 2.73 | 3.62 | | | | | | | |
| 110 | 3.60 | 3.28 | 2.56 | 2.34 | 2.43 | 3.04 | 3.46 | 3.22 | 2.63 | 2.56 | 2.75 | 3.53 | | | | | | | |
| 115 | 3.60 | 3.30 | 2.74 | 2.62 | 2.64 | 2.98 | 3.33 | 3.14 | 2.82 | 2.80 | 2.90 | 3.48 | | | | | | | |
| 120 | 3.68 | 3.39 | 2.96 | 2.88 | 2.92 | 3.07 | 3.31 | 3.22 | 3.05 | 3.03 | 3.09 | 3.50 | | | | | | | |
| 125 | 3.74 | 3.42 | 3.17 | 3.13 | 3.17 | 3.26 | 3.42 | 3.38 | 3.28 | 3.26 | 3.29 | 3.57 | | | | | | | |
| 130 | 3.86 | 3.62 | 3.41 | 3.38 | 3.40 | 3.50 | 3.57 | 3.57 | 3.50 | 3.49 | 3.51 | 3.69 | | | | | | | |
| 135 | 4.02 | 3.83 | 3.66 | 3.64 | 3.63 | 3.74 | 3.75 | 3.78 | 3.70 | 3.71 | 3.71 | 3.86 | | | | | | | |
| 140 | 4.19 | 4.00 | 3.90 | 3.89 | 3.89 | 3.96 | 3.95 | 3.98 | 3.93 | 3.94 | 3.94 | 4.02 | | | | | | | |
| 145 | 4.33 | 4.23 | 4.14 | 4.14 | 4.14 | 4.15 | 4.12 | 4.16 | 4.16 | 4.17 | 4.16 | 4.23 | | | | | | | |
| 150 | 4.54 | 4.45 | 4.38 | 4.40 | 4.39 | 4.36 | 4.29 | 4.36 | 4.39 | 4.41 | 4.39 | 4.44 | | | | | | | |
| 155 | 4.75 | 4.67 | 4.62 | 4.63 | 4.62 | 4.60 | 4.52 | 4.58 | 4.61 | 4.63 | 4.62 | 4.64 | | | | | | | |
| 160 | 4.93 | 4.87 | 4.84 | 4.86 | 4.85 | 4.82 | 4.74 | 4.78 | 4.82 | 4.85 | 4.83 | 4.84 | | | | | | | |
| 165 | 5.09 | 5.03 | 5.02 | 5.04 | 5.03 | 5.01 | 4.92 | 4.95 | 4.99 | 5.02 | 5.01 | 4.99 | | | | | | | |
| 170 | 5.23 | 5.18 | 5.19 | 5.21 | 5.20 | 5.17 | 5.07 | 5.09 | 5.14 | 5.17 | 5.15 | 5.11 | | | | | | | |
| 175 | 5.34 | 5.30 | 5.31 | 5.33 | 5.33 | 5.31 | 5.21 | 5.21 | 5.25 | 5.28 | 5.27 | 5.22 | | | | | | | |
| 180 | 5.35 | 5.32 | 5.35 | 5.37 | 5.37 | 5.34 | 5.35 | 5.32 | 5.34 | 5.37 | 5.37 | 5.34 | | | | | | | |

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