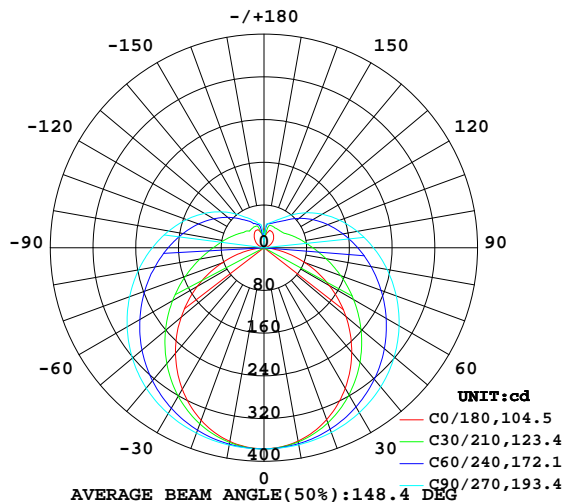


LUMINAIRE PHOTOMETRIC TEST REPORT

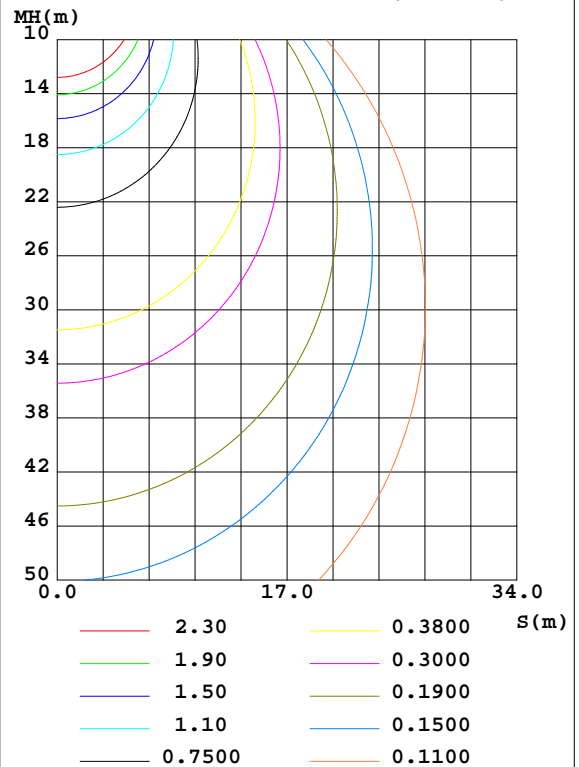
| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 75.73 lm/W | | | |
|------------------|------------|----------------------------------|---------|-------------------|-----------|
| MODEL | C06018302A | I _{max} (cd) | 376.9 | S/MH(C0/180) | 1.21 |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 1.44 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1956.0 | η UP,DN(C0-180) | 12.4,37.3 |
| NOMINAL FLUX(lm) | 1956.03 | CIE CLASS | SEMI-D. | η UP,DN(C180-360) | 12.6,37.7 |
| LAMPS INSIDE | 1 | η up(%) | 25.0 | CIBSE SHR NOM | 1.50 |
| TEST VOLTAGE(V) | 120 | η down(%) | 75.0 | CIBSE SHR MAX | 1.55 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.7DEG
Operators:Alan Wang
Test Date:26 December 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity:41.3%
Test Distance:2.500m [K=1.0250]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|--------|-------|-------|-------|----------|-------------|--------------|------------|
| 10 | 367.6 | 370.9 | 374.6 | 371.4 | 368.3 | 371.9 | 375.3 | 371.6 | 0- 10 | 35.71 | 35.71 | 1.83,1.83 |
| 20 | 342.6 | 355.5 | 368.1 | 355.9 | 343.9 | 357.5 | 369.5 | 356.4 | 10- 20 | 103.1 | 138.8 | 7.1,7.1 |
| 30 | 304.2 | 331.7 | 356.8 | 331.6 | 306.0 | 334.4 | 358.9 | 332.4 | 20- 30 | 159.2 | 298.1 | 15.2,15.2 |
| 40 | 255.7 | 301.5 | 340.1 | 300.6 | 257.9 | 304.9 | 343.1 | 301.9 | 30- 40 | 198.6 | 496.7 | 25.4,25.4 |
| 50 | 200.3 | 267.6 | 318.1 | 265.8 | 202.3 | 271.4 | 321.7 | 267.3 | 40- 50 | 218.7 | 715.4 | 36.6,36.6 |
| 60 | 141.1 | 232.1 | 292.0 | 229.5 | 143.8 | 236.2 | 295.9 | 231.2 | 50- 60 | 219.5 | 934.9 | 47.8,47.8 |
| 70 | 81.45 | 197.6 | 263.5 | 194.3 | 84.49 | 201.4 | 267.7 | 195.7 | 60- 70 | 204.3 | 1139 | 58.2,58.2 |
| 80 | 27.59 | 166.2 | 234.1 | 162.3 | 30.40 | 170.1 | 238.3 | 163.9 | 70- 80 | 178.5 | 1318 | 67.4,67.4 |
| 90 | 0.6234 | 139.3 | 205.1 | 135.1 | 0.9517 | 143.0 | 208.9 | 137.0 | 80- 90 | 149.4 | 1467 | 75,75 |
| 100 | 3.599 | 117.0 | 177.4 | 112.8 | 3.417 | 120.5 | 181.2 | 114.9 | 90-100 | 124.5 | 1592 | 81.4,81.4 |
| 110 | 8.941 | 98.01 | 150.9 | 94.36 | 8.597 | 101.2 | 154.6 | 96.28 | 100-110 | 102.3 | 1694 | 86.6,86.6 |
| 120 | 16.20 | 81.32 | 125.9 | 78.37 | 15.69 | 84.23 | 129.0 | 80.12 | 110-120 | 81.76 | 1776 | 90.8,90.8 |
| 130 | 22.76 | 67.03 | 102.1 | 64.75 | 22.21 | 69.54 | 104.8 | 66.24 | 120-130 | 63.14 | 1839 | 94,94 |
| 140 | 28.24 | 55.95 | 80.32 | 54.67 | 28.66 | 57.83 | 82.81 | 56.36 | 130-140 | 46.71 | 1885 | 96.4,96.4 |
| 150 | 32.61 | 49.93 | 63.11 | 49.34 | 34.40 | 47.53 | 65.39 | 51.38 | 140-150 | 33.05 | 1919 | 98.1,98.1 |
| 160 | 34.28 | 46.53 | 52.62 | 46.55 | 35.98 | 44.60 | 53.84 | 48.89 | 150-160 | 22.15 | 1941 | 99.2,99.2 |
| 170 | 26.45 | 44.41 | 46.34 | 34.66 | 26.97 | 32.52 | 45.44 | 45.78 | 160-170 | 12.27 | 1953 | 99.8,99.8 |
| 180 | 36.39 | 24.23 | 2.132 | 27.18 | 34.00 | 30.27 | 13.75 | 20.29 | 170-180 | 3.075 | 1956 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 604.78 lm

%lum = 30.9%

%lamp = 30.9%

Conical surface Flux(120deg): 934.9 lm

%lum = 47.8%

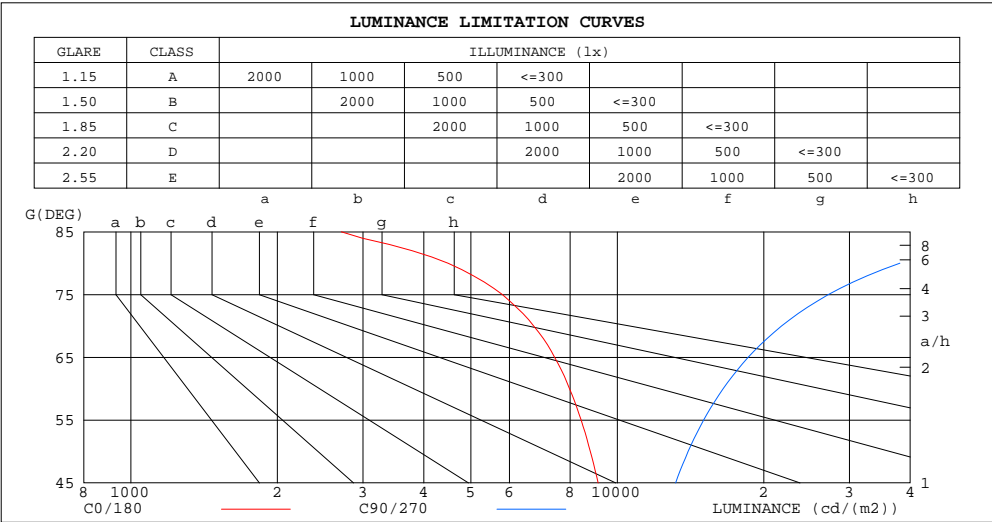
%lamp = 47.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:Alan Wang
 Test Date:26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:41.3%
 Test Distance:2.500m [K=1.0250]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 2709 | 71156 |
| 80 | 4487 | 38083 |
| 75 | 5804 | 27156 |
| 70 | 6727 | 21761 |
| 65 | 7430 | 18575 |
| 60 | 7973 | 16498 |
| 55 | 8424 | 15045 |
| 50 | 8802 | 13981 |
| 45 | 9132 | 13174 |

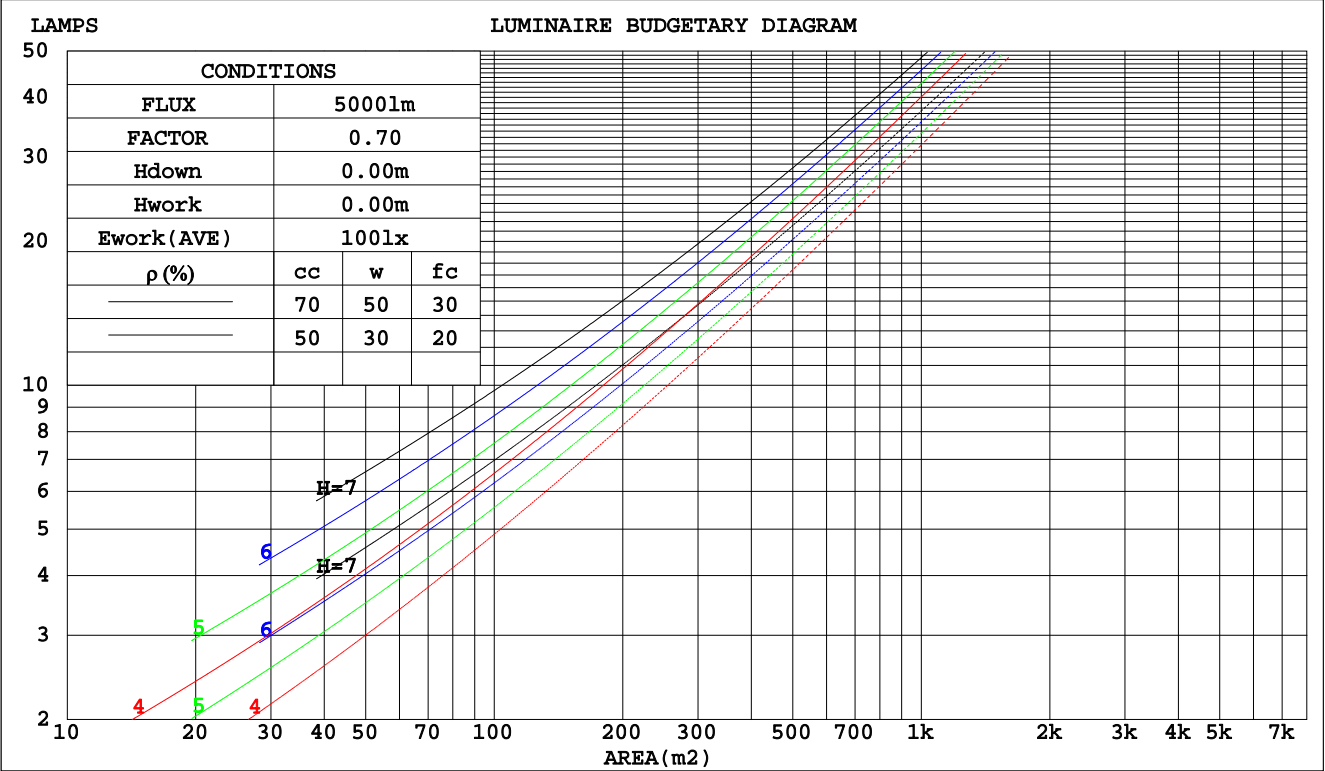
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.7DEG
Operators:Alan Wang
Test Date:26 December 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity:41.3%
Test Distance:2.500m [K=1.0250]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|--|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.13 | 1.13 | 1.13 | 1.08 | 1.08 | 1.08 | .97 | .97 | .97 | .88 | .88 | .88 | .79 | .79 | .79 | .75 |
| 1.0 | .94 | .89 | .84 | .89 | .84 | .80 | .80 | .76 | .73 | .72 | .69 | .66 | .65 | .62 | .60 | .56 |
| 2.0 | .80 | .72 | .66 | .76 | .69 | .63 | .69 | .63 | .58 | .61 | .57 | .53 | .55 | .51 | .48 | .44 |
| 3.0 | .70 | .61 | .54 | .66 | .58 | .51 | .59 | .53 | .47 | .53 | .48 | .43 | .48 | .43 | .40 | .36 |
| 4.0 | .61 | .52 | .45 | .58 | .49 | .43 | .52 | .45 | .40 | .47 | .41 | .36 | .42 | .37 | .33 | .30 |
| 5.0 | .54 | .45 | .38 | .52 | .43 | .36 | .47 | .39 | .34 | .42 | .36 | .31 | .38 | .33 | .29 | .26 |
| 6.0 | .48 | .39 | .33 | .46 | .38 | .31 | .42 | .35 | .29 | .38 | .32 | .27 | .34 | .29 | .25 | .22 |
| 7.0 | .44 | .35 | .28 | .42 | .33 | .27 | .38 | .31 | .26 | .34 | .28 | .24 | .31 | .26 | .22 | .19 |
| 8.0 | .40 | .31 | .25 | .38 | .30 | .24 | .34 | .28 | .23 | .31 | .25 | .21 | .28 | .23 | .19 | .17 |
| 9.0 | .36 | .28 | .22 | .35 | .27 | .22 | .32 | .25 | .20 | .29 | .23 | .19 | .26 | .21 | .17 | .15 |
| 10.0 | .33 | .25 | .20 | .32 | .24 | .19 | .29 | .23 | .18 | .27 | .21 | .17 | .24 | .19 | .16 | .14 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.7DEG
Operators:Alan Wang
Test Date:26 December 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity:41.3%
Test Distance:2.500m [K=1.0250]
Remarks:

WEC AND CCEC

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | 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 | .385 | .219 | .069 | .370 | .211 | .067 | .342 | .196 | .063 | .317 | .183 | .059 | .293 | .170 | .055 | | |
| 2.0 | .331 | .182 | .056 | .318 | .175 | .054 | .293 | .163 | .051 | .270 | .151 | .047 | .248 | .140 | .044 | | |
| 3.0 | .294 | .156 | .047 | .282 | .151 | .045 | .259 | .140 | .043 | .237 | .130 | .040 | .218 | .121 | .037 | | |
| 4.0 | .264 | .137 | .040 | .253 | .132 | .039 | .232 | .123 | .037 | .213 | .114 | .034 | .195 | .106 | .032 | | |
| 5.0 | .240 | .122 | .035 | .230 | .118 | .034 | .211 | .110 | .032 | .193 | .102 | .030 | .177 | .094 | .028 | | |
| 6.0 | .220 | .110 | .032 | .211 | .106 | .031 | .193 | .099 | .029 | .177 | .092 | .027 | .162 | .085 | .025 | | |
| 7.0 | .203 | .100 | .028 | .194 | .097 | .028 | .178 | .090 | .026 | .163 | .084 | .024 | .149 | .078 | .023 | | |
| 8.0 | .188 | .092 | .026 | .180 | .089 | .025 | .165 | .083 | .024 | .152 | .077 | .022 | .139 | .071 | .021 | | |
| 9.0 | .175 | .085 | .024 | .168 | .082 | .023 | .154 | .076 | .022 | .141 | .071 | .020 | .129 | .066 | .019 | | |
| 10.0 | .164 | .079 | .022 | .157 | .076 | .021 | .145 | .071 | .020 | .133 | .066 | .019 | .121 | .061 | .018 | | |

| 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 | .381 | .381 | .381 | .326 | .326 | .326 | .222 | .222 | .222 | .128 | .128 | .128 | .041 | .041 | .041 | |
| 1.0 | .378 | .348 | .320 | .323 | .298 | .276 | .221 | .205 | .191 | .127 | .119 | .111 | .041 | .038 | .036 | |
| 2.0 | .371 | .325 | .287 | .318 | .280 | .248 | .218 | .194 | .173 | .126 | .113 | .101 | .040 | .036 | .033 | |
| 3.0 | .363 | .309 | .265 | .312 | .266 | .230 | .214 | .185 | .161 | .124 | .108 | .095 | .040 | .035 | .031 | |
| 4.0 | .356 | .297 | .251 | .305 | .256 | .218 | .210 | .179 | .154 | .121 | .105 | .091 | .039 | .034 | .030 | |
| 5.0 | .348 | .287 | .242 | .299 | .248 | .210 | .206 | .173 | .148 | .119 | .102 | .088 | .038 | .033 | .029 | |
| 6.0 | .341 | .279 | .235 | .293 | .242 | .204 | .202 | .169 | .145 | .117 | .100 | .086 | .038 | .033 | .028 | |
| 7.0 | .334 | .273 | .230 | .287 | .236 | .200 | .198 | .166 | .142 | .115 | .098 | .084 | .037 | .032 | .028 | |
| 8.0 | .327 | .267 | .226 | .282 | .232 | .197 | .195 | .163 | .140 | .113 | .096 | .083 | .037 | .031 | .028 | |
| 9.0 | .321 | .262 | .223 | .277 | .228 | .194 | .192 | .160 | .138 | .112 | .095 | .082 | .036 | .031 | .027 | |
| 10.0 | .315 | .258 | .220 | .272 | .224 | .192 | .189 | .158 | .137 | .110 | .093 | .082 | .036 | .031 | .027 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:Alan Wang
 Test Date:26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:41.3%
 Test Distance:2.500m [K=1.0250]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|----------|----------------|------|------------------|------|------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | | | | | | | | | |
| NAME: | | | | | TYPE:LED | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: ETi Solid State Lighting, Inc | | | | | SUR.: | | | 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 | 18.3 | 19.6 | 18.9 | 20.2 | 20.9 | 21.3 | 22.6 | 21.9 | 23.2 | 23.9 |
| 3H | 19.6 | 20.8 | 20.3 | 21.5 | 22.2 | 24.1 | 25.3 | 24.7 | 25.9 | 26.7 |
| 4H | 20.2 | 21.3 | 20.8 | 21.9 | 22.7 | 25.7 | 26.8 | 26.3 | 27.4 | 28.2 |
| 6H | 20.5 | 21.6 | 21.2 | 22.2 | 23.0 | 27.4 | 28.5 | 28.1 | 29.1 | 29.9 |
| 8H | 20.6 | 21.6 | 21.2 | 22.3 | 23.1 | 28.4 | 29.4 | 29.0 | 30.1 | 30.9 |
| 12H | 20.6 | 21.6 | 21.3 | 22.3 | 23.1 | 29.5 | 30.5 | 30.2 | 31.1 | 32.0 |
| 4H 2H | 19.7 | 20.8 | 20.3 | 21.5 | 22.2 | 21.8 | 22.9 | 22.4 | 23.6 | 24.3 |
| 3H | 21.4 | 22.4 | 22.1 | 23.1 | 23.9 | 24.9 | 25.9 | 25.5 | 26.5 | 27.3 |
| 4H | 22.1 | 23.0 | 22.8 | 23.7 | 24.6 | 26.6 | 27.5 | 27.3 | 28.3 | 29.1 |
| 6H | 22.7 | 23.5 | 23.4 | 24.2 | 25.1 | 28.6 | 29.4 | 29.3 | 30.2 | 31.0 |
| 8H | 22.9 | 23.6 | 23.6 | 24.4 | 25.2 | 29.7 | 30.5 | 30.5 | 31.2 | 32.1 |
| 12H | 23.0 | 23.7 | 23.7 | 24.4 | 25.3 | 31.0 | 31.7 | 31.7 | 32.4 | 33.3 |
| 8H 4H | 23.5 | 24.3 | 24.3 | 25.0 | 25.9 | 27.0 | 27.7 | 27.7 | 28.5 | 29.4 |
| 6H | 24.6 | 25.2 | 25.3 | 26.0 | 26.9 | 29.3 | 29.9 | 30.0 | 30.7 | 31.6 |
| 8H | 25.0 | 25.6 | 25.8 | 26.4 | 27.3 | 30.6 | 31.2 | 31.4 | 31.9 | 32.9 |
| 12H | 25.3 | 25.8 | 26.1 | 26.6 | 27.6 | 32.1 | 32.6 | 32.9 | 33.4 | 34.4 |
| 12H 4H | 24.0 | 24.7 | 24.8 | 25.5 | 26.4 | 27.0 | 27.7 | 27.7 | 28.4 | 29.3 |
| 6H | 25.3 | 25.9 | 26.1 | 26.7 | 27.6 | 29.4 | 29.9 | 30.2 | 30.7 | 31.7 |
| 8H | 26.0 | 26.5 | 26.8 | 27.3 | 28.3 | 30.8 | 31.3 | 31.6 | 32.1 | 33.1 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.4 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117, 1956 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.3$)
Area: 0.0354 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.7DEG
Operators: Alan Wang
Test Date: 26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0250]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |

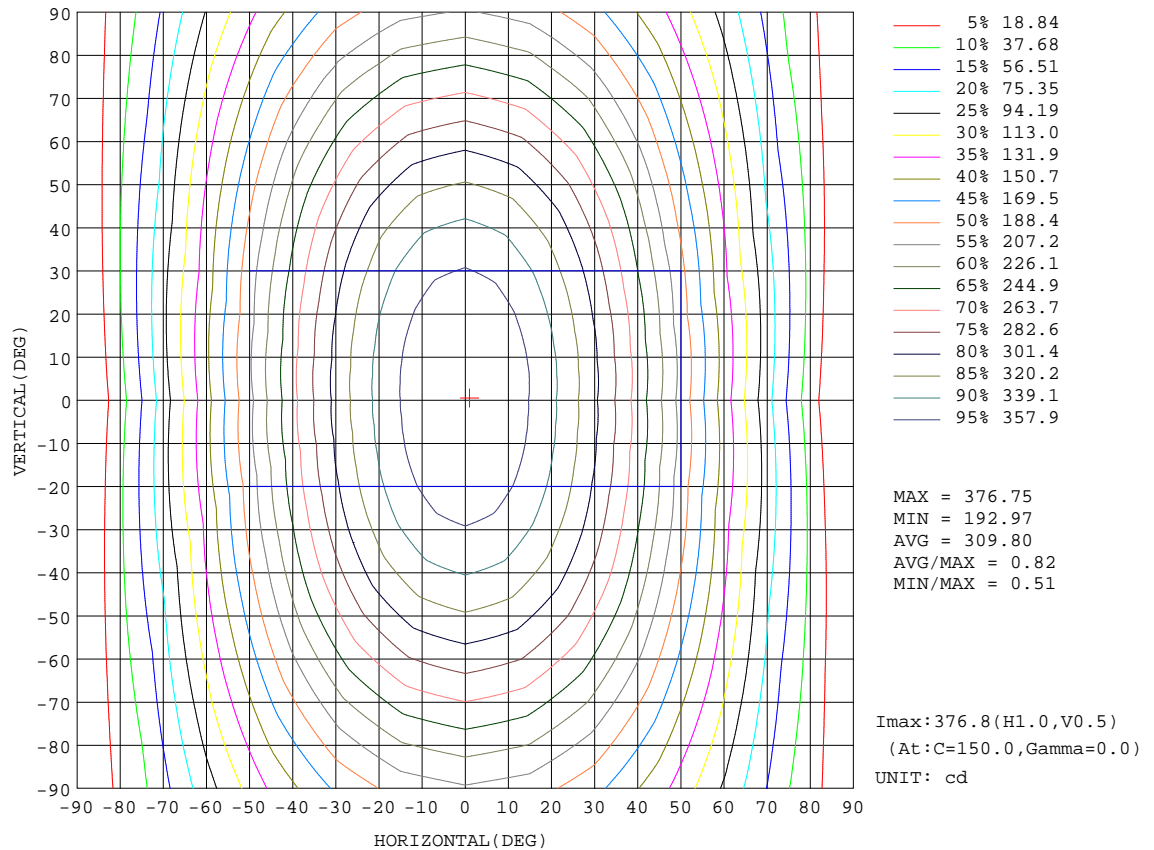
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 46 | 33 | 26 | 44 | 33 | 26 | 42 | 32 | 25 | 18 |
| 0.80 | 55 | 42 | 34 | 53 | 41 | 33 | 50 | 39 | 32 | 24 |
| 1.00 | 62 | 49 | 41 | 60 | 48 | 40 | 56 | 48 | 38 | 29 |
| 1.25 | 69 | 56 | 48 | 66 | 55 | 47 | 61 | 52 | 45 | 34 |
| 1.50 | 74 | 62 | 53 | 71 | 60 | 52 | 66 | 56 | 49 | 38 |
| 2.00 | 82 | 70 | 62 | 78 | 68 | 60 | 71 | 63 | 57 | 43 |
| 2.50 | 86 | 76 | 68 | 82 | 73 | 65 | 75 | 67 | 61 | 47 |
| 3.00 | 90 | 80 | 73 | 86 | 77 | 70 | 78 | 71 | 65 | 50 |
| 4.00 | 95 | 87 | 80 | 90 | 83 | 77 | 82 | 76 | 71 | 55 |
| 5.00 | 98 | 91 | 85 | 93 | 87 | 81 | 84 | 79 | 75 | 58 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: Alan Wang
 Test Date: 26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0250]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |



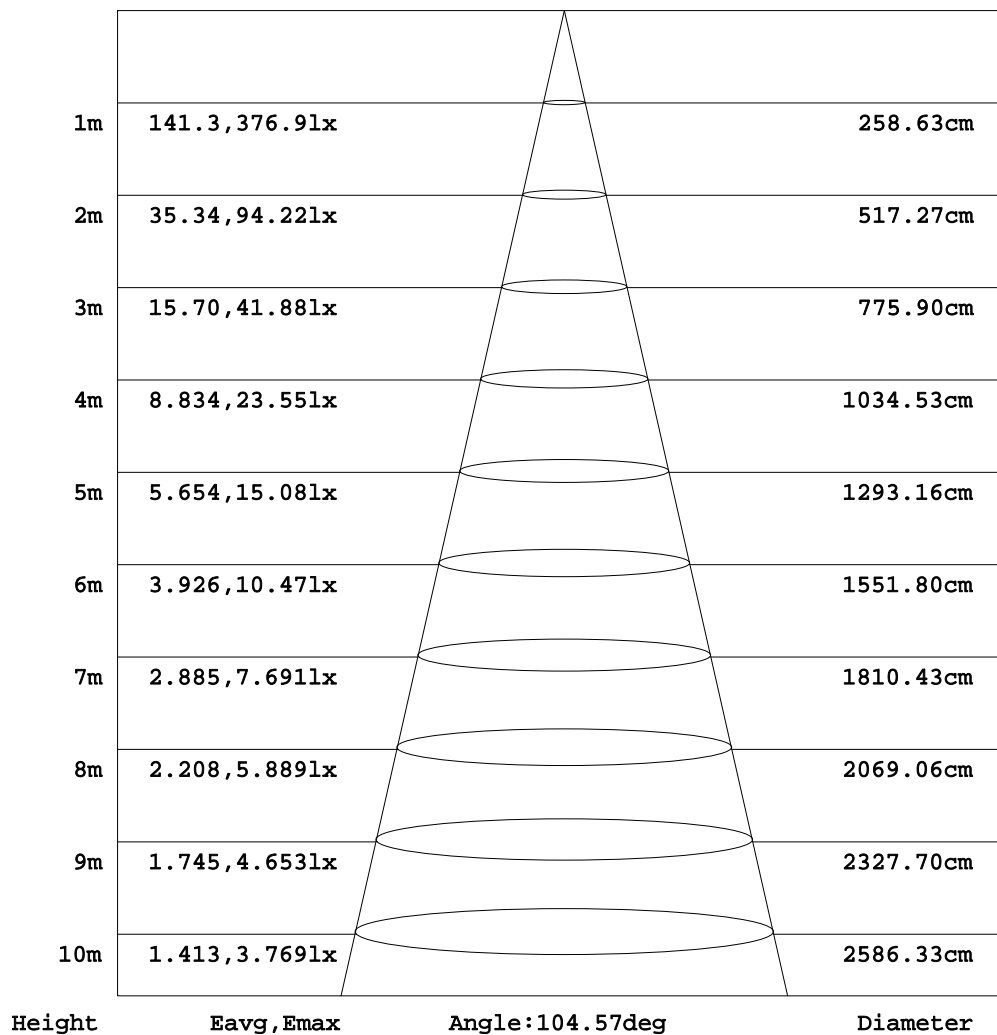
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: Alan Wang
 Test Date: 26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0250]
 Remarks:

AAI Figure

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |

Flux out:782.0 lm



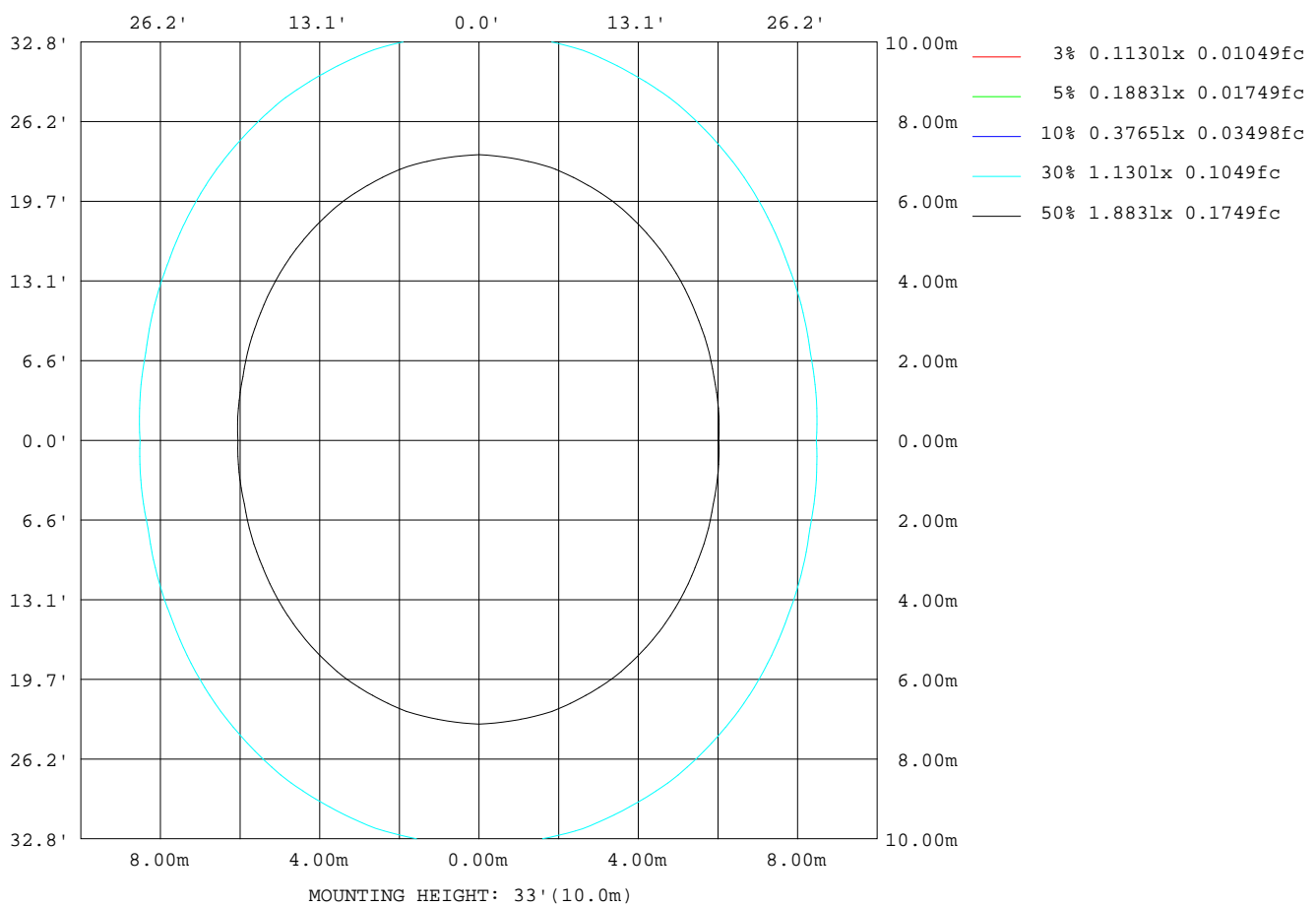
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: Alan Wang
 Test Date: 26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0250]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: Alan Wang
 Test Date: 26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0250]
 Remarks:

LED Avg.L Report

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |

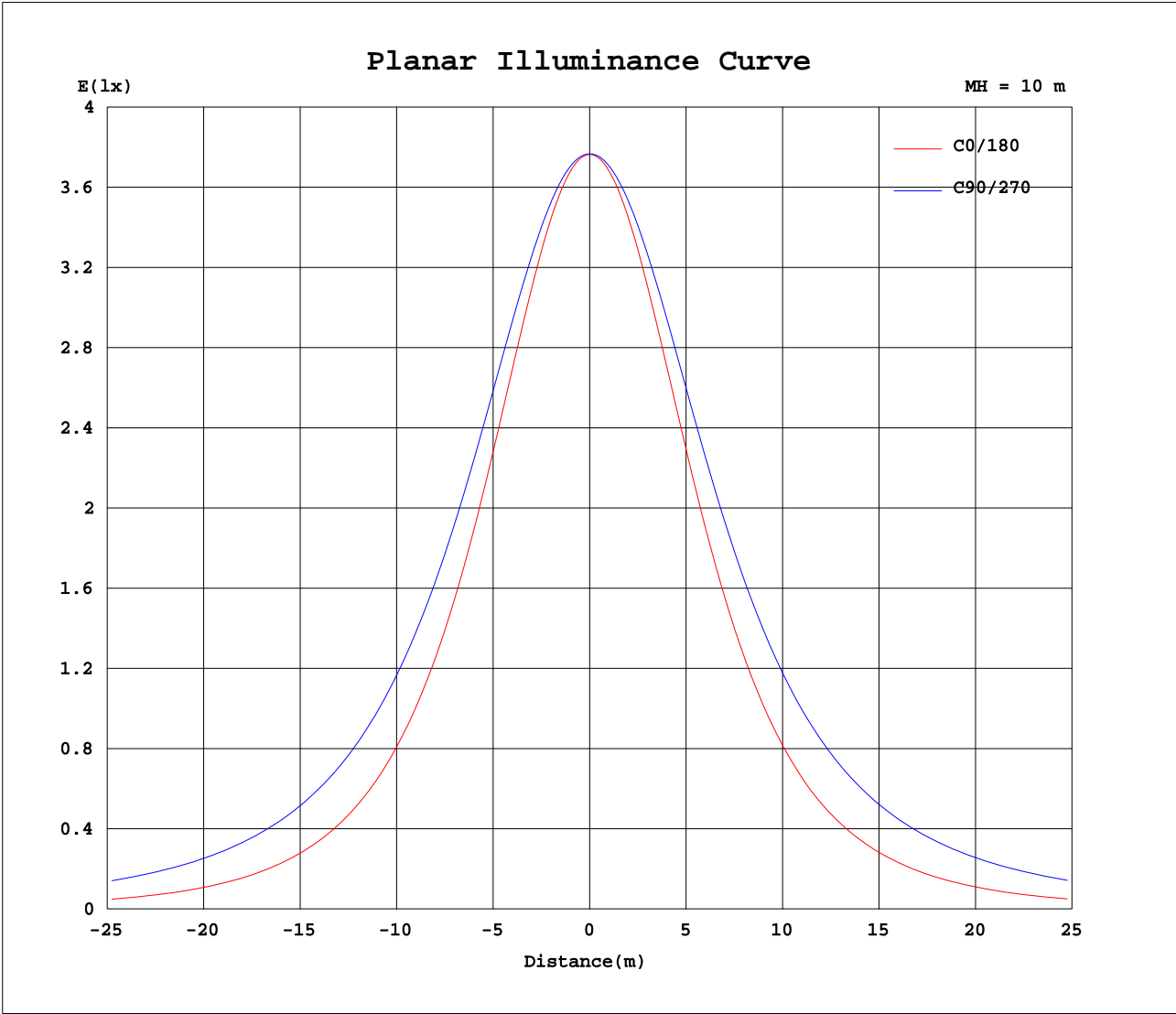
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 7522 |
| L_0~180(75)av | 5969 |
| L_0~180(85)av | 2952 |
| L_90~270(65)av | 18714 |
| L_90~270(75)av | 27389 |
| L_90~270(85)av | 71832 |
| L_45(65)av | 14342 |
| L_45(75)av | 19748 |
| L_45(85)av | 49094 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.7DEG
Operators:Alan Wang
Test Date:26 December 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity:41.3%
Test Distance:2.500m [K=1.0250]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.7DEG
Operators:Alan Wang
Test Date:26 December 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity:41.3%
Test Distance:2.500m [K=1.0250]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|------------------|--|--|--|--|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | | | | | | | | | | | | | | | | | |
| NAME: | | | | | | | | | TYPE:LED | | | | | WEIGHT: | | | | |
| SPEC.: | | | | | | | | | DIM.: | | | | | SERIAL No.: | | | | |
| MFR.: ETi Solid State Lighting, Inc | | | | | | | | | SUR.: | | | | | Shielding Angle: | | | | |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 376 | 377 | 377 | 377 | 376 | 377 | 377 | 377 | 377 | 377 | 377 | 377 | 376 | 377 | 377 | 377 | 376 | 377 | 377 |
| 5 | 374 | 374 | 375 | 375 | 375 | 376 | 376 | 376 | 376 | 375 | 375 | 375 | 374 | 375 | 375 | 376 | 376 | 376 | 376 |
| 10 | 368 | 368 | 369 | 371 | 373 | 374 | 375 | 374 | 373 | 371 | 370 | 369 | 368 | 369 | 370 | 372 | 374 | 375 | 375 |
| 15 | 357 | 358 | 361 | 364 | 368 | 371 | 372 | 371 | 368 | 365 | 361 | 359 | 358 | 359 | 362 | 366 | 369 | 372 | 373 |
| 20 | 343 | 344 | 349 | 356 | 362 | 366 | 368 | 366 | 362 | 356 | 350 | 345 | 344 | 346 | 351 | 358 | 364 | 368 | 369 |
| 25 | 325 | 328 | 335 | 345 | 354 | 361 | 363 | 361 | 354 | 345 | 335 | 328 | 327 | 330 | 337 | 347 | 356 | 363 | 365 |
| 30 | 304 | 308 | 318 | 332 | 344 | 353 | 357 | 353 | 344 | 332 | 318 | 309 | 306 | 310 | 321 | 334 | 347 | 356 | 359 |
| 35 | 281 | 286 | 300 | 317 | 334 | 345 | 349 | 345 | 333 | 317 | 300 | 287 | 283 | 289 | 303 | 320 | 337 | 348 | 352 |
| 40 | 256 | 262 | 280 | 301 | 322 | 335 | 340 | 335 | 321 | 301 | 279 | 263 | 258 | 265 | 283 | 305 | 325 | 339 | 343 |
| 45 | 229 | 237 | 259 | 285 | 308 | 324 | 330 | 324 | 307 | 284 | 258 | 237 | 231 | 241 | 262 | 289 | 312 | 328 | 333 |
| 50 | 200 | 211 | 237 | 268 | 294 | 312 | 318 | 311 | 293 | 266 | 235 | 211 | 202 | 215 | 241 | 271 | 298 | 316 | 322 |
| 55 | 171 | 185 | 215 | 250 | 279 | 299 | 305 | 298 | 278 | 248 | 213 | 184 | 173 | 188 | 219 | 254 | 284 | 303 | 309 |
| 60 | 141 | 158 | 194 | 232 | 264 | 285 | 292 | 284 | 262 | 229 | 191 | 156 | 144 | 161 | 197 | 236 | 268 | 289 | 296 |
| 65 | 111 | 132 | 173 | 215 | 249 | 271 | 278 | 270 | 247 | 212 | 169 | 130 | 114 | 136 | 177 | 219 | 253 | 275 | 282 |
| 70 | 81.5 | 107 | 153 | 198 | 233 | 256 | 263 | 255 | 231 | 194 | 149 | 104 | 84.5 | 111 | 157 | 201 | 238 | 261 | 268 |
| 75 | 53.2 | 84.1 | 135 | 181 | 218 | 241 | 249 | 240 | 216 | 178 | 130 | 80.5 | 56.2 | 88.2 | 138 | 185 | 223 | 246 | 253 |
| 80 | 27.6 | 64.3 | 118 | 166 | 203 | 227 | 234 | 225 | 201 | 162 | 113 | 60.0 | 30.4 | 68.2 | 122 | 170 | 207 | 231 | 238 |
| 85 | 8.36 | 48.7 | 104 | 152 | 189 | 212 | 220 | 211 | 186 | 148 | 98.7 | 43.8 | 9.86 | 52.2 | 107 | 156 | 193 | 217 | 224 |
| 90 | 0.62 | 38.1 | 91.6 | 139 | 176 | 198 | 205 | 197 | 173 | 135 | 86.5 | 33.1 | 0.95 | 41.2 | 95.2 | 143 | 180 | 202 | 209 |
| 95 | 1.85 | 32.0 | 81.8 | 128 | 163 | 184 | 191 | 183 | 160 | 124 | 76.8 | 27.3 | 1.79 | 34.6 | 85.3 | 131 | 167 | 188 | 195 |
| 100 | 3.60 | 28.0 | 73.8 | 117 | 150 | 171 | 177 | 169 | 147 | 113 | 69.0 | 23.8 | 3.42 | 30.2 | 77.0 | 121 | 154 | 175 | 181 |
| 105 | 5.98 | 25.0 | 67.0 | 107 | 138 | 158 | 164 | 156 | 136 | 103 | 62.5 | 21.1 | 5.70 | 26.9 | 69.9 | 111 | 142 | 162 | 168 |
| 110 | 8.94 | 23.0 | 61.0 | 98.0 | 127 | 145 | 151 | 144 | 125 | 94.4 | 56.9 | 19.8 | 8.60 | 24.7 | 63.7 | 101 | 131 | 149 | 155 |
| 115 | 12.5 | 23.6 | 55.9 | 89.3 | 116 | 133 | 138 | 132 | 114 | 86.0 | 52.2 | 21.2 | 12.1 | 24.9 | 58.3 | 92.4 | 119 | 136 | 142 |
| 120 | 16.2 | 25.4 | 51.4 | 81.3 | 106 | 121 | 126 | 120 | 103 | 78.4 | 48.1 | 23.6 | 15.7 | 26.5 | 53.7 | 84.2 | 109 | 124 | 129 |
| 125 | 19.7 | 27.6 | 47.5 | 73.9 | 95.5 | 109 | 114 | 108 | 93.5 | 71.3 | 44.7 | 26.2 | 18.8 | 28.1 | 49.6 | 76.6 | 98.4 | 112 | 117 |
| 130 | 22.8 | 29.7 | 45.2 | 67.0 | 85.8 | 98.2 | 102 | 97.2 | 84.2 | 64.7 | 43.2 | 28.4 | 22.2 | 30.3 | 47.0 | 69.5 | 88.7 | 101 | 105 |
| 135 | 25.6 | 31.5 | 44.1 | 60.7 | 76.8 | 87.4 | 90.8 | 86.6 | 75.4 | 58.7 | 42.6 | 31.2 | 25.6 | 32.3 | 44.8 | 63.0 | 79.5 | 90.2 | 93.5 |
| 140 | 28.2 | 33.9 | 43.4 | 56.0 | 68.4 | 77.4 | 80.3 | 76.7 | 67.3 | 54.7 | 42.4 | 33.4 | 28.7 | 34.1 | 41.7 | 57.8 | 70.8 | 79.9 | 82.8 |
| 145 | 30.6 | 36.1 | 43.1 | 52.5 | 61.7 | 68.1 | 70.5 | 67.6 | 60.9 | 51.6 | 42.4 | 35.0 | 31.8 | 36.6 | 42.2 | 53.5 | 63.7 | 70.4 | 72.9 |
| 150 | 32.6 | 37.4 | 42.6 | 49.9 | 56.7 | 61.5 | 63.1 | 61.2 | 56.2 | 49.3 | 42.7 | 36.4 | 34.4 | 38.0 | 42.8 | 47.5 | 58.0 | 63.5 | 65.4 |
| 155 | 33.9 | 38.8 | 43.2 | 47.9 | 52.7 | 56.2 | 57.4 | 56.0 | 52.4 | 47.7 | 42.7 | 37.4 | 35.9 | 37.9 | 43.5 | 46.5 | 51.6 | 57.3 | 59.3 |
| 160 | 34.3 | 39.9 | 43.7 | 46.5 | 49.5 | 51.8 | 52.6 | 51.8 | 49.6 | 46.6 | 42.6 | 38.9 | 36.0 | 35.8 | 43.3 | 44.6 | 48.2 | 51.2 | 53.8 |
| 165 | 31.3 | 36.2 | 43.9 | 45.7 | 47.3 | 48.5 | 49.0 | 48.6 | 47.3 | 44.4 | 39.4 | 35.0 | 32.3 | 31.9 | 39.6 | 44.9 | 45.1 | 47.5 | 48.7 |
| 170 | 26.5 | 27.7 | 36.9 | 44.4 | 45.7 | 46.1 | 46.3 | 46.2 | 44.4 | 34.7 | 29.9 | 27.5 | 27.0 | 27.2 | 28.4 | 32.5 | 39.3 | 43.8 | 45.4 |
| 175 | 23.6 | 23.5 | 24.1 | 26.4 | 26.7 | 26.7 | 26.7 | 26.7 | 23.9 | 23.2 | 23.5 | 23.6 | 23.8 | 23.8 | 23.8 | 23.7 | 23.5 | 24.9 | 34.4 |
| 180 | 36.4 | 35.4 | 32.0 | 24.2 | 20.6 | 9.00 | 2.13 | 9.60 | 18.7 | 27.2 | 32.3 | 35.4 | 34.0 | 34.0 | 33.1 | 30.3 | 25.5 | 18.9 | 13.7 |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:24.7DEG

Operators:Alan Wang

Test Date:26 December 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity:41.3%

Test Distance:2.500m [K=1.0250]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|----------|------------------|
| Test:U:120.0V I:0.2466A P:25.83W PF:0.8728 Freq:60.00Hz Lamp Flux:1956.03x1 lm | | |
| NAME: | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: ETi Solid State Lighting, Inc | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 377 | 377 | 377 | 377 | 377 | | | | | | | | | | | | | | |
| 5 | 376 | 376 | 375 | 375 | 375 | | | | | | | | | | | | | | |
| 10 | 375 | 373 | 372 | 370 | 369 | | | | | | | | | | | | | | |
| 15 | 372 | 369 | 365 | 362 | 359 | | | | | | | | | | | | | | |
| 20 | 367 | 363 | 356 | 350 | 345 | | | | | | | | | | | | | | |
| 25 | 362 | 355 | 345 | 336 | 329 | | | | | | | | | | | | | | |
| 30 | 355 | 346 | 332 | 319 | 309 | | | | | | | | | | | | | | |
| 35 | 347 | 335 | 318 | 300 | 287 | | | | | | | | | | | | | | |
| 40 | 337 | 323 | 302 | 280 | 263 | | | | | | | | | | | | | | |
| 45 | 327 | 309 | 285 | 258 | 238 | | | | | | | | | | | | | | |
| 50 | 314 | 295 | 267 | 236 | 211 | | | | | | | | | | | | | | |
| 55 | 301 | 280 | 249 | 214 | 183 | | | | | | | | | | | | | | |
| 60 | 288 | 265 | 231 | 191 | 156 | | | | | | | | | | | | | | |
| 65 | 273 | 249 | 213 | 170 | 129 | | | | | | | | | | | | | | |
| 70 | 259 | 234 | 196 | 149 | 104 | | | | | | | | | | | | | | |
| 75 | 244 | 219 | 179 | 131 | 80.3 | | | | | | | | | | | | | | |
| 80 | 229 | 203 | 164 | 114 | 59.6 | | | | | | | | | | | | | | |
| 85 | 214 | 189 | 150 | 99.2 | 43.4 | | | | | | | | | | | | | | |
| 90 | 200 | 176 | 137 | 87.3 | 32.8 | | | | | | | | | | | | | | |
| 95 | 186 | 163 | 126 | 77.9 | 27.2 | | | | | | | | | | | | | | |
| 100 | 173 | 150 | 115 | 70.1 | 23.5 | | | | | | | | | | | | | | |
| 105 | 160 | 139 | 105 | 63.5 | 20.9 | | | | | | | | | | | | | | |
| 110 | 147 | 127 | 96.3 | 57.9 | 20.1 | | | | | | | | | | | | | | |
| 115 | 135 | 116 | 87.9 | 53.1 | 21.8 | | | | | | | | | | | | | | |
| 120 | 123 | 106 | 80.1 | 49.0 | 24.3 | | | | | | | | | | | | | | |
| 125 | 111 | 95.8 | 72.9 | 45.6 | 26.9 | | | | | | | | | | | | | | |
| 130 | 99.7 | 86.3 | 66.2 | 44.4 | 29.3 | | | | | | | | | | | | | | |
| 135 | 89.1 | 77.4 | 60.2 | 43.7 | 31.4 | | | | | | | | | | | | | | |
| 140 | 79.0 | 69.2 | 56.4 | 43.5 | 33.0 | | | | | | | | | | | | | | |
| 145 | 70.1 | 63.1 | 53.4 | 43.7 | 34.6 | | | | | | | | | | | | | | |
| 150 | 63.6 | 58.5 | 51.4 | 44.0 | 36.5 | | | | | | | | | | | | | | |
| 155 | 58.4 | 55.0 | 50.1 | 44.5 | 38.6 | | | | | | | | | | | | | | |
| 160 | 53.7 | 52.0 | 48.9 | 45.0 | 40.6 | | | | | | | | | | | | | | |
| 165 | 49.8 | 49.0 | 47.5 | 45.3 | 41.0 | | | | | | | | | | | | | | |
| 170 | 45.7 | 46.4 | 45.8 | 42.9 | 32.2 | | | | | | | | | | | | | | |
| 175 | 41.4 | 40.5 | 35.2 | 25.5 | 23.2 | | | | | | | | | | | | | | |
| 180 | 1.08 | 14.0 | 20.3 | 26.1 | 30.9 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:24.7DEG

Operators:Alan Wang

Test Date:26 December 2024

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity:41.3%

Test Distance:2.500m [K=1.0250]

Remarks: