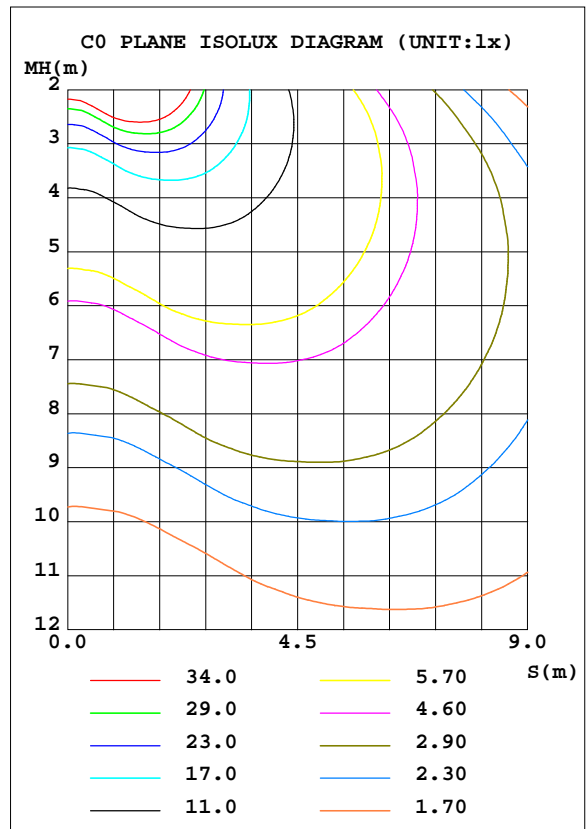
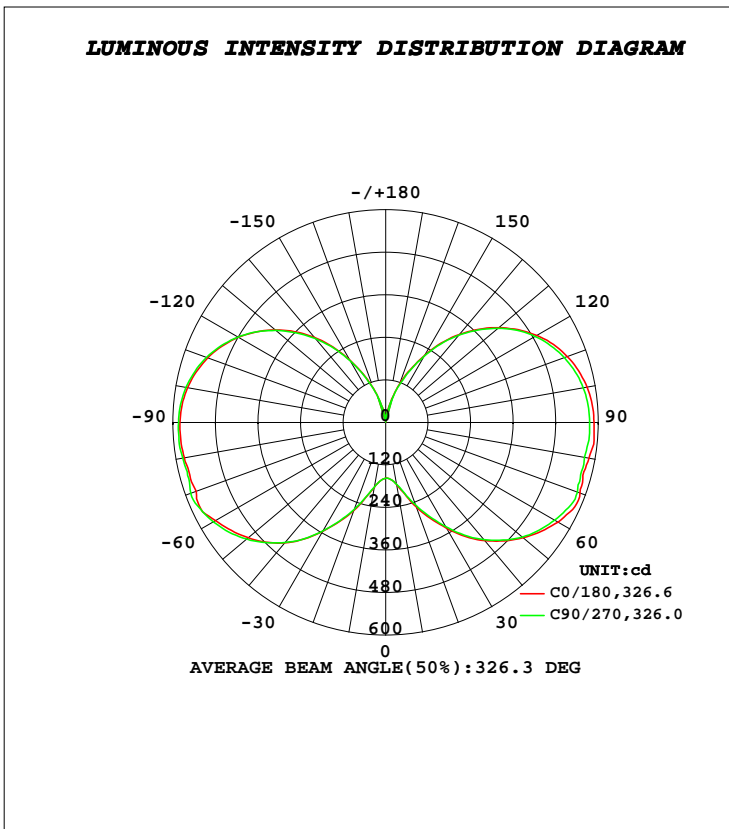


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 128.54 lm/W | | | |
|------------------|---------|-----------------------------------|---------|--------------------|-----------|
| MODEL | 91579 | I _{max} (cd) | 593.1 | S/MH(C0/180) | 3.16 |
| NOMINAL POWER(W) | 45 | LOR(%) | 100.0 | S/MH(C90/270) | 3.18 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 5711.3 | η UP, DN(C0-180) | 23.2,26.9 |
| NOMINAL FLUX(lm) | 5711.34 | CIE CLASS | DIFFUSE | η UP, DN(C180-360) | 22.8,27.1 |
| LAMPS INSIDE | 1 | η up(%) | 46.1 | CIBSE SHR NOM | 2.00 |
| TEST VOLTAGE(V) | 120 | η down(%) | 53.9 | CIBSE SHR MAX | 2.00 |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

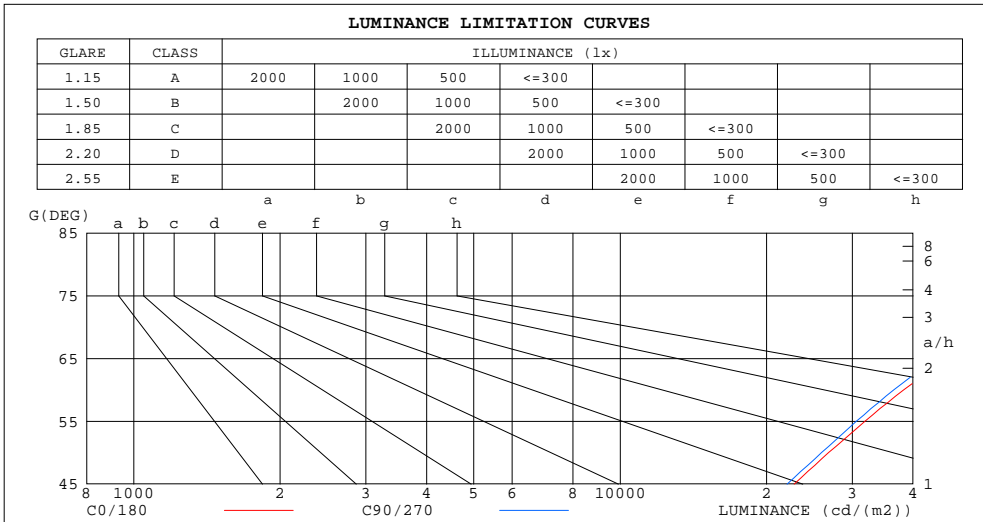
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10 | 178.2 | 174.3 | 177.0 | 182.0 | 185.5 | 188.0 | 184.9 | 181.3 | 0- 10 | 16.12 | 16.12 | 0.28,0.28 |
| 20 | 253.9 | 243.4 | 248.4 | 260.0 | 265.0 | 266.8 | 261.5 | 258.8 | 10- 20 | 62.41 | 78.53 | 1.38,1.38 |
| 30 | 345.1 | 330.7 | 338.9 | 346.7 | 353.6 | 358.5 | 352.4 | 348.3 | 20- 30 | 140.7 | 219.2 | 3.84,3.84 |
| 40 | 435.2 | 422.3 | 432.1 | 436.1 | 443.5 | 446.2 | 442.2 | 437.5 | 30- 40 | 248.4 | 467.6 | 8.19,8.19 |
| 50 | 505.6 | 496.8 | 503.2 | 494.6 | 506.5 | 518.1 | 512.0 | 497.3 | 40- 50 | 366.4 | 833.9 | 14.6,14.6 |
| 60 | 561.6 | 537.6 | 550.8 | 534.2 | 554.1 | 555.2 | 561.3 | 537.0 | 50- 60 | 474.3 | 1308 | 22.9,22.9 |
| 70 | 582.9 | 552.9 | 575.8 | 544.3 | 569.1 | 561.4 | 585.0 | 550.0 | 60- 70 | 559.1 | 1867 | 32.7,32.7 |
| 80 | 582.3 | 547.5 | 569.4 | 540.7 | 576.3 | 560.5 | 581.2 | 543.9 | 70- 80 | 595.3 | 2463 | 43.1,43.1 |
| 90 | 587.5 | 552.9 | 575.5 | 544.0 | 580.5 | 561.8 | 584.6 | 546.1 | 80- 90 | 618.0 | 3081 | 53.9,53.9 |
| 100 | 576.8 | 543.9 | 566.1 | 534.1 | 567.4 | 549.6 | 571.7 | 537.1 | 90-100 | 614.0 | 3695 | 64.7,64.7 |
| 110 | 545.1 | 517.1 | 536.2 | 507.5 | 533.9 | 519.4 | 538.1 | 510.8 | 100-110 | 574.4 | 4269 | 74.7,74.7 |
| 120 | 491.9 | 472.5 | 486.5 | 462.2 | 480.9 | 473.7 | 481.6 | 467.1 | 110-120 | 500.2 | 4769 | 83.5,83.5 |
| 130 | 416.2 | 407.0 | 413.7 | 396.6 | 406.4 | 400.3 | 404.4 | 405.3 | 120-130 | 398.3 | 5168 | 90.5,90.5 |
| 140 | 325.1 | 321.6 | 322.0 | 312.3 | 314.0 | 305.4 | 308.7 | 322.4 | 130-140 | 281.7 | 5449 | 95.4,95.4 |
| 150 | 217.0 | 213.9 | 214.4 | 209.5 | 203.2 | 195.6 | 200.1 | 213.5 | 140-150 | 166.8 | 5616 | 98.3,98.3 |
| 160 | 116.4 | 113.2 | 111.4 | 108.6 | 101.8 | 96.49 | 98.94 | 112.1 | 150-160 | 73.83 | 5690 | 99.6,99.6 |
| 170 | 34.00 | 34.36 | 32.54 | 30.02 | 26.50 | 24.50 | 26.37 | 30.73 | 160-170 | 19.60 | 5710 | 100,100 |
| 180 | 6.542 | 6.539 | 6.568 | 6.589 | 6.582 | 6.576 | 6.598 | 6.630 | 170-180 | 1.700 | 5711 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 231139 | 219008 |
| 80 | 114451 | 108798 |
| 75 | 75937 | 72997 |
| 70 | 58160 | 55858 |
| 65 | 46966 | 44677 |
| 60 | 38333 | 36550 |
| 55 | 31886 | 30632 |
| 50 | 26846 | 25973 |
| 45 | 22787 | 22022 |

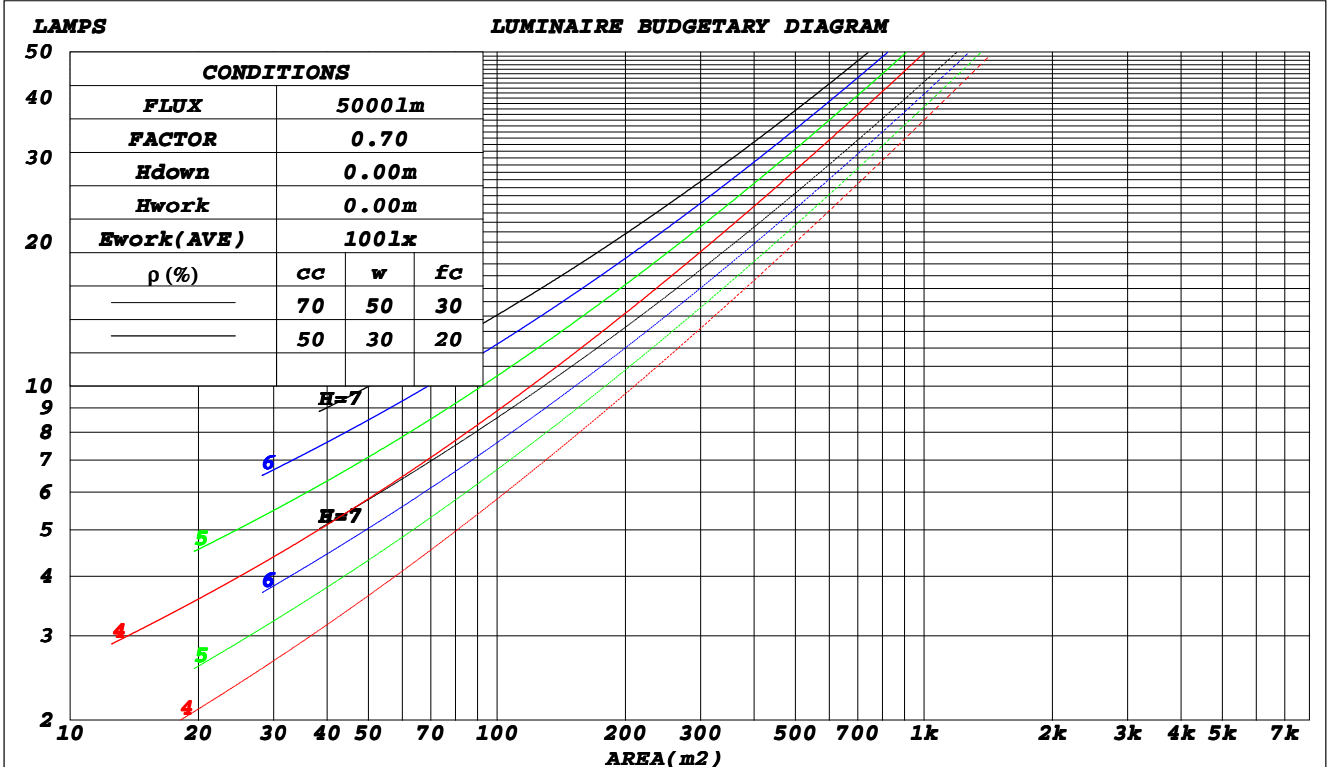
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |

| ρcc | 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 | 1.08 | 1.08 | 1.08 | 1.00 | 1.00 | 1.00 | .86 | .86 | .86 | .72 | .72 | .72 | .60 | .60 | .60 | .54 |
| 1.0 | .86 | .80 | .75 | .80 | .74 | .69 | .67 | .63 | .59 | .55 | .52 | .49 | .44 | .42 | .39 | .34 |
| 2.0 | .72 | .64 | .57 | .66 | .59 | .53 | .55 | .49 | .44 | .45 | .40 | .36 | .36 | .32 | .29 | .24 |
| 3.0 | .62 | .52 | .45 | .57 | .48 | .41 | .47 | .40 | .35 | .38 | .33 | .28 | .30 | .26 | .22 | .18 |
| 4.0 | .53 | .44 | .36 | .49 | .40 | .33 | .41 | .34 | .28 | .33 | .27 | .23 | .26 | .21 | .18 | .14 |
| 5.0 | .47 | .37 | .30 | .43 | .34 | .28 | .36 | .29 | .23 | .29 | .23 | .19 | .22 | .18 | .14 | .11 |
| 6.0 | .41 | .32 | .25 | .38 | .29 | .23 | .32 | .25 | .19 | .25 | .20 | .16 | .20 | .15 | .12 | .09 |
| 7.0 | .37 | .28 | .21 | .34 | .26 | .20 | .28 | .21 | .17 | .23 | .17 | .13 | .18 | .13 | .10 | .07 |
| 8.0 | .33 | .25 | .18 | .31 | .23 | .17 | .25 | .19 | .14 | .21 | .15 | .11 | .16 | .12 | .09 | .06 |
| 9.0 | .30 | .22 | .16 | .28 | .20 | .15 | .23 | .17 | .12 | .19 | .14 | .10 | .15 | .11 | .08 | .05 |
| 10.0 | .27 | .19 | .14 | .25 | .18 | .13 | .21 | .15 | .11 | .17 | .12 | .09 | .14 | .10 | .07 | .05 |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: LIU
 Test Date: 2017-11-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.310m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | 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 | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .433 | .246 | .078 | .412 | .235 | .075 | .372 | .213 | .068 | .335 | .193 | .062 | .302 | .175 | .056 | |
| 2.0 | .359 | .197 | .060 | .339 | .187 | .058 | .303 | .168 | .052 | .269 | .151 | .047 | .238 | .135 | .042 | |
| 3.0 | .311 | .166 | .050 | .294 | .157 | .047 | .260 | .141 | .043 | .229 | .126 | .039 | .201 | .111 | .034 | |
| 4.0 | .276 | .143 | .042 | .260 | .136 | .040 | .229 | .122 | .036 | .201 | .108 | .033 | .174 | .095 | .029 | |
| 5.0 | .248 | .126 | .037 | .233 | .120 | .035 | .205 | .107 | .031 | .179 | .094 | .028 | .154 | .083 | .025 | |
| 6.0 | .225 | .113 | .032 | .212 | .107 | .031 | .186 | .095 | .028 | .162 | .084 | .025 | .139 | .073 | .022 | |
| 7.0 | .207 | .102 | .029 | .194 | .097 | .028 | .170 | .086 | .025 | .148 | .076 | .022 | .126 | .066 | .019 | |
| 8.0 | .191 | .093 | .026 | .179 | .088 | .025 | .157 | .078 | .022 | .136 | .069 | .020 | .116 | .060 | .017 | |
| 9.0 | .177 | .086 | .024 | .166 | .081 | .023 | .145 | .072 | .020 | .126 | .063 | .018 | .107 | .055 | .016 | |
| 10.0 | .165 | .079 | .022 | .155 | .075 | .021 | .135 | .066 | .019 | .117 | .058 | .017 | .100 | .050 | .014 | |

| 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 | .541 | .541 | .541 | .463 | .463 | .463 | .316 | .316 | .316 | .181 | .181 | .181 | .058 | .058 | .058 | |
| 1.0 | .543 | .509 | .478 | .464 | .437 | .412 | .318 | .300 | .285 | .183 | .174 | .166 | .059 | .056 | .054 | |
| 2.0 | .537 | .488 | .446 | .460 | .420 | .386 | .315 | .290 | .269 | .182 | .169 | .158 | .058 | .055 | .051 | |
| 3.0 | .531 | .473 | .427 | .455 | .408 | .370 | .312 | .283 | .259 | .180 | .165 | .153 | .058 | .054 | .050 | |
| 4.0 | .523 | .461 | .414 | .449 | .399 | .360 | .309 | .278 | .253 | .179 | .163 | .150 | .057 | .053 | .049 | |
| 5.0 | .516 | .452 | .405 | .443 | .391 | .353 | .305 | .273 | .249 | .177 | .160 | .148 | .057 | .052 | .049 | |
| 6.0 | .508 | .445 | .399 | .437 | .385 | .348 | .301 | .270 | .246 | .175 | .159 | .146 | .056 | .052 | .048 | |
| 7.0 | .501 | .439 | .395 | .431 | .380 | .344 | .298 | .267 | .244 | .173 | .157 | .145 | .056 | .051 | .048 | |
| 8.0 | .495 | .434 | .392 | .426 | .376 | .342 | .295 | .264 | .242 | .171 | .156 | .144 | .055 | .051 | .048 | |
| 9.0 | .488 | .429 | .389 | .421 | .372 | .339 | .292 | .262 | .241 | .170 | .155 | .144 | .055 | .051 | .048 | |
| 10.0 | .483 | .425 | .387 | .416 | .369 | .338 | .289 | .260 | .240 | .168 | .154 | .143 | .055 | .050 | .047 | |

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LIU
 Test Date:2017-11-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.310m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|-------------------------|-------------|-------------|-------------|------------------------|-----------------------|-------------|------------------|-------------|-------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | | | | | | | | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | | | | | TYPE:360° HIGH WATTAGE | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: 95*235 | | | SERIAL No.:1 | | |
| MFR.: P.Q.L., Inc. | | | | | SUR.:95*80 | | | Shielding Angle: | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 16.3 | 17.5 | 17.1 | 18.3 | 19.4 | 15.9 | 17.1 | 16.8 | 17.9 | 19.0 |
| 3H | 19.8 | 20.9 | 20.7 | 21.7 | 22.9 | 19.4 | 20.4 | 20.2 | 21.3 | 22.5 |
| 4H | 21.7 | 22.7 | 22.5 | 23.6 | 24.7 | 21.2 | 22.2 | 22.1 | 23.1 | 24.3 |
| 6H | 23.7 | 24.7 | 24.6 | 25.6 | 26.7 | 23.3 | 24.3 | 24.2 | 25.2 | 26.3 |
| 8H | 24.9 | 25.8 | 25.8 | 26.7 | 27.9 | 24.5 | 25.4 | 25.4 | 26.3 | 27.5 |
| 12H | 26.2 | 27.1 | 27.1 | 28.0 | 29.2 | 25.8 | 26.7 | 26.7 | 27.6 | 28.8 |
| 4H 2H | 17.3 | 18.3 | 18.2 | 19.2 | 20.3 | 17.0 | 18.0 | 17.9 | 18.9 | 20.1 |
| 3H | 20.9 | 21.7 | 21.8 | 22.7 | 23.9 | 20.5 | 21.4 | 21.4 | 22.3 | 23.5 |
| 4H | 22.9 | 23.7 | 23.8 | 24.6 | 25.8 | 22.5 | 23.3 | 23.4 | 24.2 | 25.4 |
| 6H | 25.1 | 25.8 | 26.0 | 26.8 | 28.0 | 24.7 | 25.4 | 25.6 | 26.3 | 27.6 |
| 8H | 26.3 | 27.0 | 27.3 | 28.0 | 29.2 | 25.9 | 26.6 | 26.8 | 27.5 | 28.8 |
| 12H | 27.8 | 28.4 | 28.7 | 29.4 | 30.6 | 27.3 | 28.0 | 28.3 | 28.9 | 30.2 |
| 8H 4H | 23.5 | 24.2 | 24.4 | 25.1 | 26.4 | 23.2 | 23.9 | 24.1 | 24.8 | 26.1 |
| 6H | 26.0 | 26.6 | 27.0 | 27.6 | 28.8 | 25.6 | 26.2 | 26.6 | 27.2 | 28.4 |
| 8H | 27.4 | 28.0 | 28.4 | 29.0 | 30.2 | 27.0 | 27.5 | 28.0 | 28.5 | 29.8 |
| 12H | 29.1 | 29.6 | 30.1 | 30.6 | 31.9 | 28.7 | 29.1 | 29.7 | 30.1 | 31.4 |
| 12H 4H | 23.7 | 24.3 | 24.6 | 25.3 | 26.5 | 23.4 | 24.0 | 24.4 | 25.0 | 26.3 |
| 6H | 26.3 | 26.8 | 27.3 | 27.8 | 29.1 | 25.9 | 26.5 | 26.9 | 27.5 | 28.7 |
| 8H | 27.8 | 28.3 | 28.8 | 29.3 | 30.6 | 27.5 | 27.9 | 28.5 | 28.9 | 30.2 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.3 / - 0.4 | | | | | + 0.3 / - 0.4 | | | | |

CIE Pub.117, 5711 lm Total Lamp Luminous Flux Correct ($8\log(F/F0) = 6.1$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |

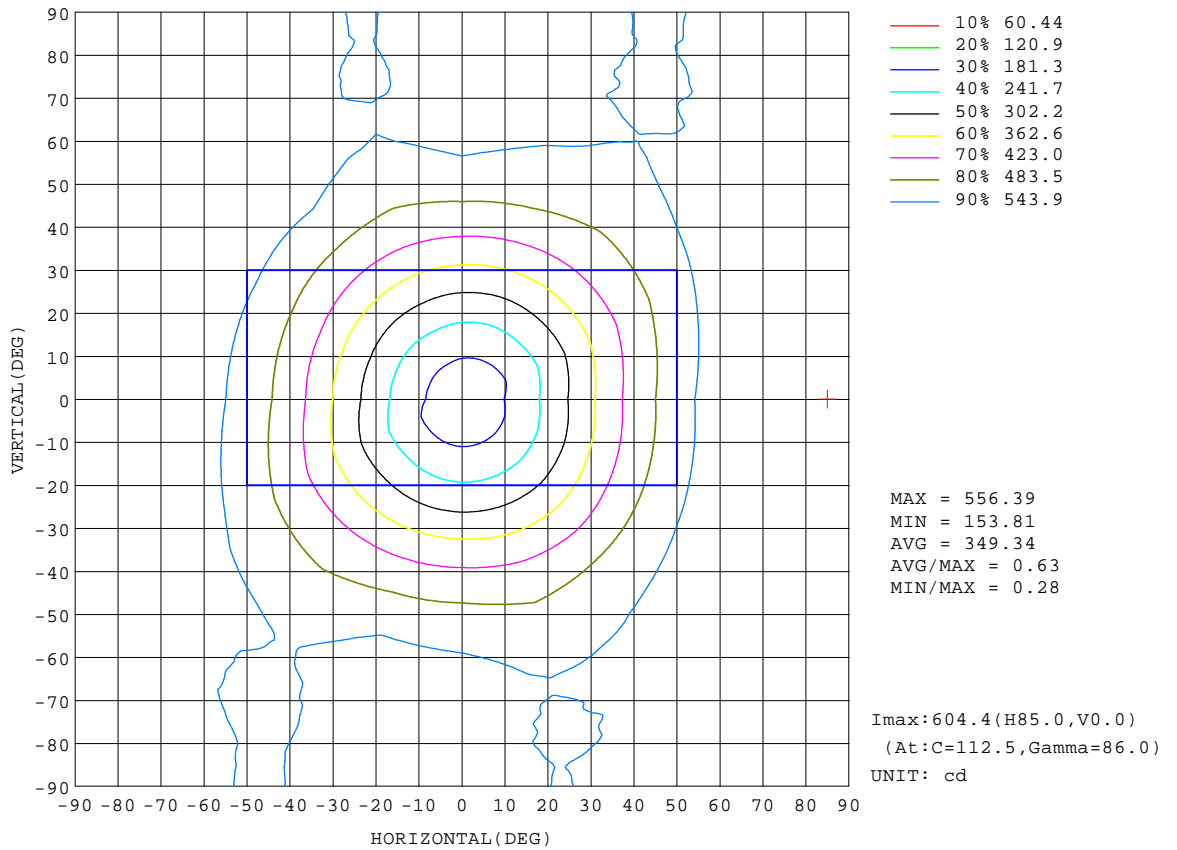
| REFLECTANCE | | | | | | | | | | |
|---|---|-----|------------------|-----|-----|-----|----------------------|-----|-----|---------------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 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 | 35 | 22 | 14 | 33 | 21 | 14 | 30 | 19 | 13 | 6 |
| 0.80 | 43 | 29 | 20 | 41 | 28 | 20 | 36 | 25 | 18 | 8 |
| 1.00 | 51 | 36 | 26 | 47 | 34 | 25 | 42 | 33 | 23 | 12 |
| 1.25 | 58 | 43 | 33 | 54 | 40 | 31 | 47 | 36 | 28 | 15 |
| 1.50 | 63 | 48 | 38 | 59 | 46 | 36 | 51 | 40 | 32 | 17 |
| 2.00 | 71 | 57 | 47 | 66 | 54 | 45 | 57 | 47 | 39 | 22 |
| 2.50 | 76 | 64 | 54 | 71 | 59 | 51 | 60 | 52 | 44 | 25 |
| 3.00 | 80 | 69 | 59 | 74 | 64 | 56 | 63 | 55 | 49 | 28 |
| 4.00 | 86 | 76 | 67 | 79 | 71 | 63 | 68 | 61 | 55 | 32 |
| 5.00 | 89 | 81 | 73 | 83 | 75 | 68 | 70 | 64 | 59 | 35 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | SHRNOM = 1.25 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |



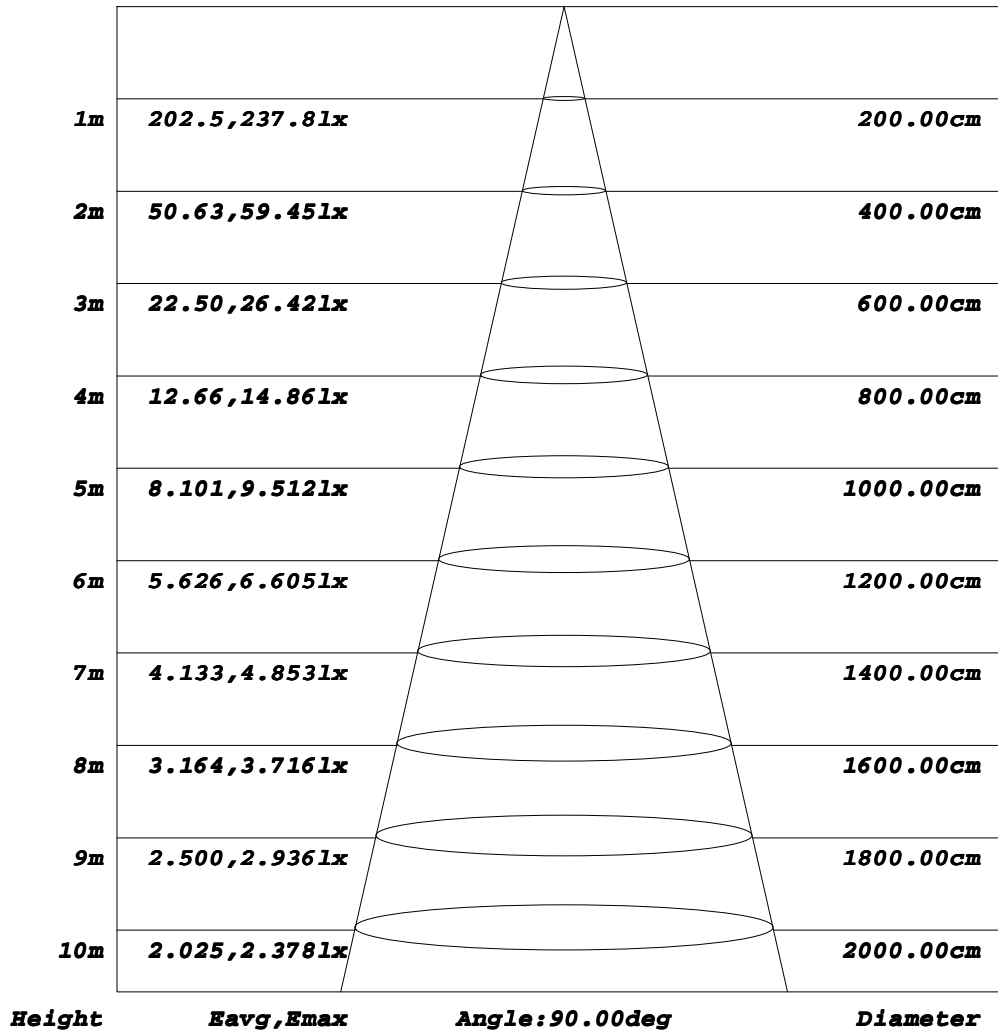
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |

Flux out:636.2 lm



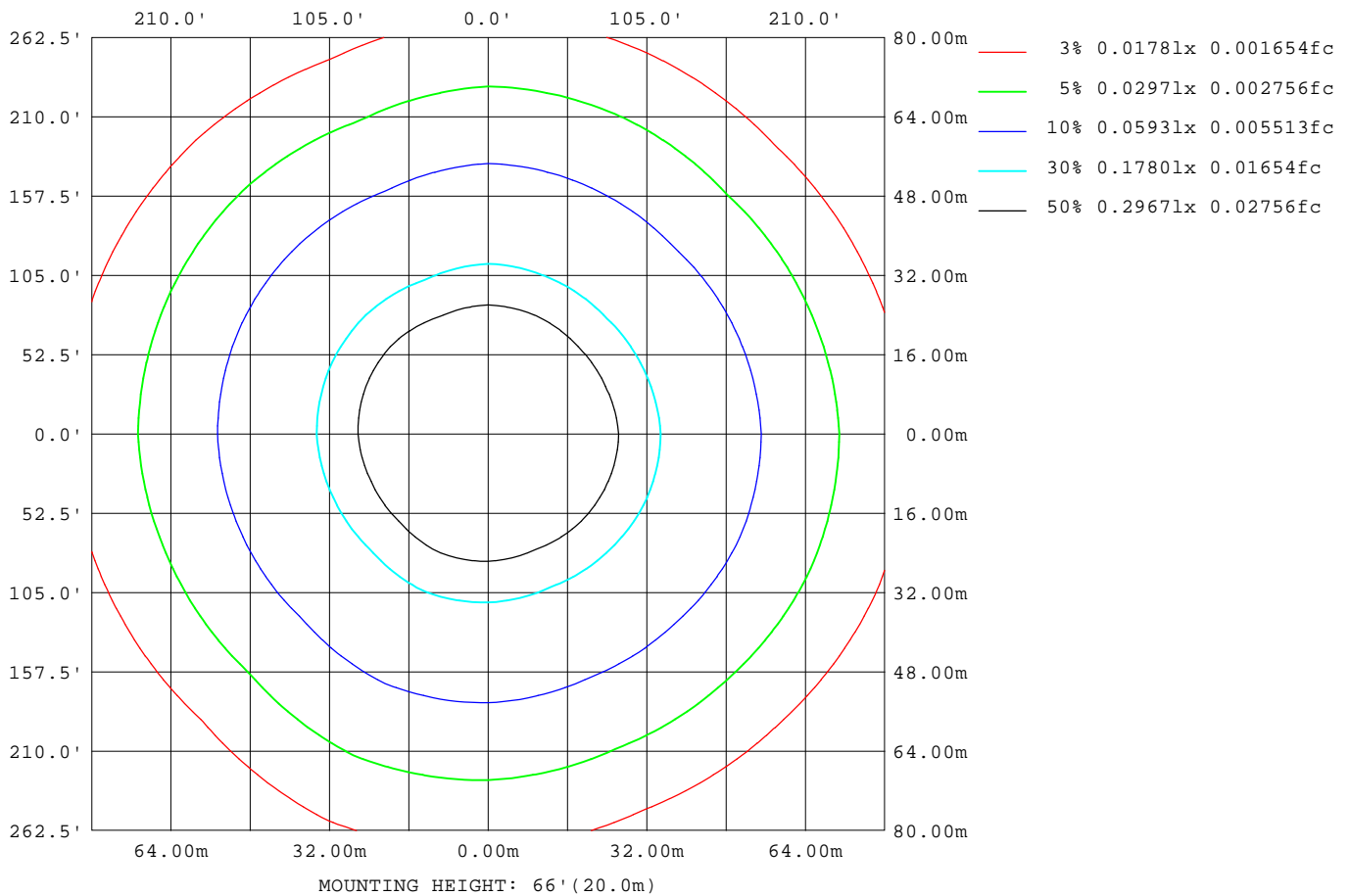
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |

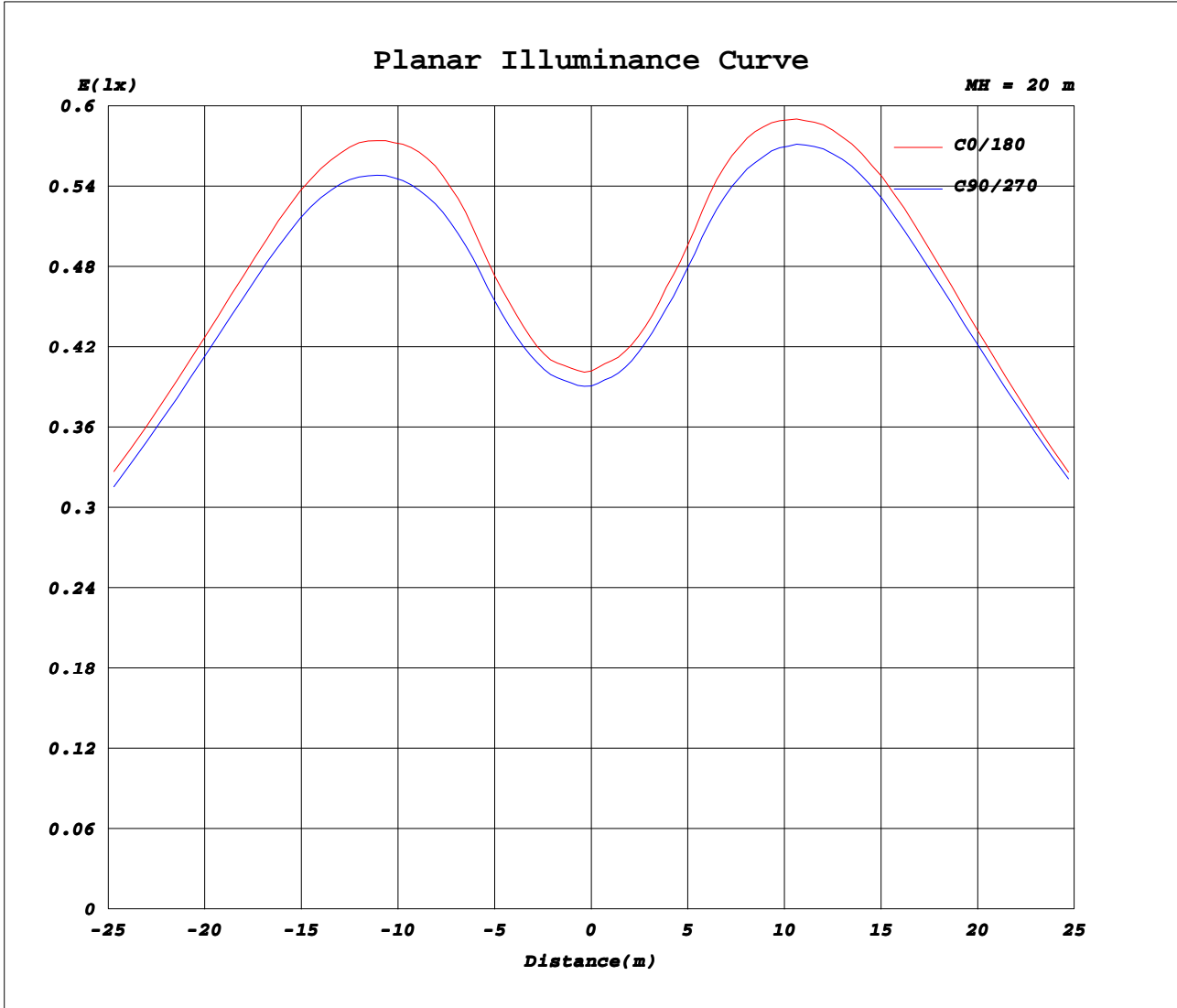
| AvgL | cd/m2 |
|----------------|--------|
| L_0~180(65)av | 45637 |
| L_0~180(75)av | 73950 |
| L_0~180(85)av | 223812 |
| L_90~270(65)av | 45205 |
| L_90~270(75)av | 73906 |
| L_90~270(85)av | 221969 |
| L_45(65)av | 43742 |
| L_45(75)av | 70565 |
| L_45(85)av | 211280 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LIU
Test Date:2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.310m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|------------------------|------------------|
| Test:U:119.81V I:0.3732A P:44.433W PF:0.9936 Freq:49.99Hz Lamp Flux:5711.34x1 lm | | |
| NAME: LED 45WT30/360°/CL/50K/MED/V5 | TYPE:360° HIGH WATTAGE | WEIGHT: |
| SPEC.: | DIM.: 95*235 | SERIAL No.:1 |
| MFR.: P.Q.L., Inc. | SUR.:95*80 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) \ γ (DEG) | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | | | |
|-------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | 157 | | | |
| 5 | 161 | 160 | 160 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 166 | 166 | 165 | 163 | 162 | 161 | | | |
| 10 | 178 | 175 | 174 | 175 | 177 | 179 | 182 | 184 | 185 | 188 | 188 | 188 | 185 | 183 | 181 | 180 | | | |
| 15 | 210 | 204 | 203 | 205 | 207 | 211 | 216 | 218 | 220 | 224 | 224 | 224 | 218 | 217 | 215 | 212 | | | |
| 20 | 254 | 246 | 243 | 246 | 248 | 253 | 260 | 260 | 265 | 268 | 267 | 267 | 261 | 259 | 259 | 255 | | | |
| 25 | 299 | 290 | 286 | 289 | 292 | 297 | 303 | 305 | 308 | 312 | 311 | 310 | 306 | 303 | 302 | 299 | | | |
| 30 | 345 | 338 | 331 | 332 | 339 | 344 | 347 | 349 | 354 | 359 | 358 | 355 | 352 | 350 | 348 | 348 | | | |
| 35 | 393 | 385 | 378 | 380 | 388 | 393 | 395 | 397 | 401 | 407 | 404 | 401 | 401 | 397 | 396 | 395 | | | |
| 40 | 435 | 428 | 422 | 423 | 432 | 435 | 436 | 437 | 443 | 447 | 446 | 441 | 442 | 440 | 437 | 437 | | | |
| 45 | 472 | 467 | 463 | 457 | 469 | 474 | 469 | 474 | 478 | 485 | 485 | 474 | 479 | 477 | 470 | 474 | | | |
| 50 | 506 | 501 | 497 | 485 | 503 | 510 | 495 | 505 | 506 | 517 | 518 | 499 | 512 | 508 | 497 | 505 | | | |
| 55 | 536 | 529 | 520 | 507 | 530 | 540 | 516 | 531 | 532 | 542 | 543 | 518 | 540 | 529 | 519 | 534 | | | |
| 60 | 562 | 556 | 538 | 525 | 551 | 562 | 534 | 553 | 554 | 559 | 555 | 533 | 561 | 546 | 537 | 560 | | | |
| 65 | 582 | 582 | 551 | 535 | 569 | 585 | 549 | 572 | 576 | 580 | 571 | 544 | 577 | 562 | 547 | 578 | | | |
| 70 | 583 | 581 | 553 | 543 | 576 | 586 | 544 | 570 | 569 | 570 | 561 | 544 | 585 | 568 | 550 | 580 | | | |
| 75 | 576 | 575 | 548 | 537 | 569 | 585 | 539 | 566 | 572 | 567 | 560 | 533 | 578 | 563 | 545 | 571 | | | |
| 80 | 582 | 577 | 548 | 535 | 569 | 587 | 541 | 568 | 576 | 569 | 561 | 536 | 581 | 568 | 544 | 570 | | | |
| 85 | 590 | 583 | 554 | 541 | 575 | 593 | 545 | 572 | 580 | 571 | 563 | 537 | 585 | 572 | 548 | 574 | | | |
| 90 | 588 | 580 | 553 | 540 | 575 | 592 | 544 | 572 | 581 | 569 | 562 | 536 | 585 | 571 | 546 | 571 | | | |
| 95 | 585 | 578 | 550 | 538 | 573 | 589 | 541 | 570 | 577 | 565 | 558 | 533 | 581 | 567 | 544 | 568 | | | |
| 100 | 577 | 572 | 544 | 532 | 566 | 580 | 534 | 562 | 567 | 557 | 550 | 525 | 572 | 558 | 537 | 561 | | | |
| 105 | 564 | 562 | 533 | 522 | 554 | 566 | 523 | 551 | 553 | 544 | 536 | 513 | 557 | 545 | 526 | 549 | | | |
| 110 | 545 | 546 | 517 | 507 | 536 | 546 | 508 | 536 | 534 | 525 | 519 | 497 | 538 | 527 | 511 | 532 | | | |
| 115 | 522 | 524 | 497 | 488 | 514 | 520 | 488 | 513 | 510 | 503 | 499 | 476 | 512 | 505 | 491 | 511 | | | |
| 120 | 492 | 494 | 472 | 464 | 487 | 489 | 462 | 483 | 481 | 475 | 474 | 451 | 482 | 477 | 467 | 483 | | | |
| 125 | 456 | 458 | 443 | 435 | 453 | 454 | 432 | 448 | 446 | 441 | 442 | 420 | 446 | 443 | 439 | 450 | | | |
| 130 | 416 | 418 | 407 | 402 | 414 | 413 | 397 | 409 | 406 | 401 | 400 | 385 | 404 | 405 | 405 | 412 | | | |
| 135 | 372 | 376 | 367 | 364 | 369 | 367 | 357 | 365 | 362 | 357 | 354 | 346 | 358 | 362 | 366 | 368 | | | |
| 140 | 325 | 329 | 322 | 321 | 322 | 318 | 312 | 314 | 314 | 308 | 305 | 302 | 309 | 314 | 322 | 321 | | | |
| 145 | 273 | 277 | 269 | 271 | 271 | 267 | 262 | 260 | 261 | 254 | 253 | 250 | 256 | 262 | 269 | 270 | | | |
| 150 | 217 | 220 | 214 | 216 | 214 | 211 | 210 | 204 | 203 | 198 | 196 | 195 | 200 | 206 | 213 | 217 | | | |
| 155 | 165 | 166 | 161 | 163 | 161 | 158 | 156 | 152 | 151 | 146 | 144 | 144 | 147 | 152 | 162 | 164 | | | |
| 160 | 116 | 117 | 113 | 115 | 111 | 109 | 109 | 104 | 102 | 97.0 | 96.5 | 97.2 | 98.9 | 104 | 112 | 115 | | | |
| 165 | 69.6 | 71.4 | 69.5 | 69.9 | 66.6 | 65.0 | 63.4 | 60.0 | 57.4 | 54.0 | 54.0 | 54.7 | 57.3 | 60.5 | 66.0 | 68.8 | | | |
| 170 | 34.0 | 35.4 | 34.4 | 34.9 | 32.5 | 31.3 | 30.0 | 28.2 | 26.5 | 24.3 | 24.5 | 24.8 | 26.4 | 28.1 | 30.7 | 32.7 | | | |
| 175 | 13.4 | 14.6 | 14.4 | 14.1 | 13.3 | 12.5 | 11.7 | 11.4 | 10.9 | 9.98 | 10.3 | 10.2 | 10.8 | 10.7 | 11.7 | 12.0 | | | |
| 180 | 6.54 | 6.57 | 6.54 | 6.58 | 6.57 | 6.62 | 6.59 | 6.61 | 6.58 | 6.53 | 6.58 | 6.55 | 6.60 | 6.59 | 6.63 | 6.58 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LIU
Test Date: 2017-11-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.310m [K=1.0000]
Remarks: