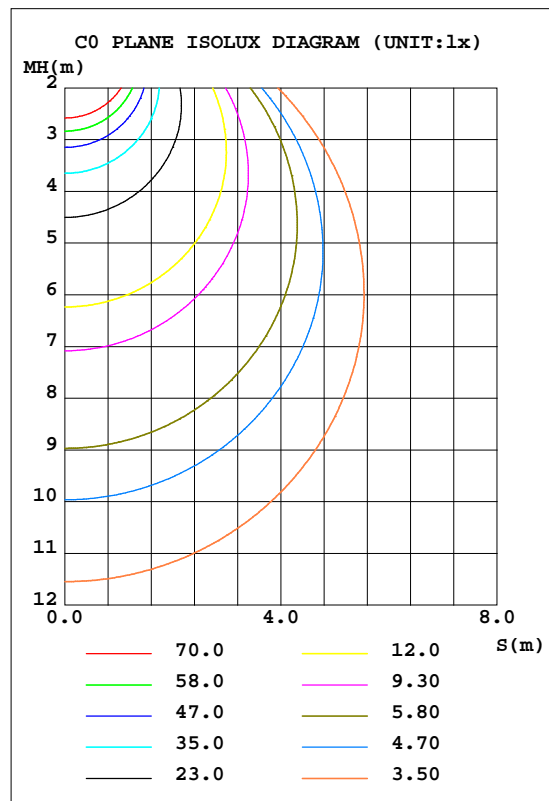
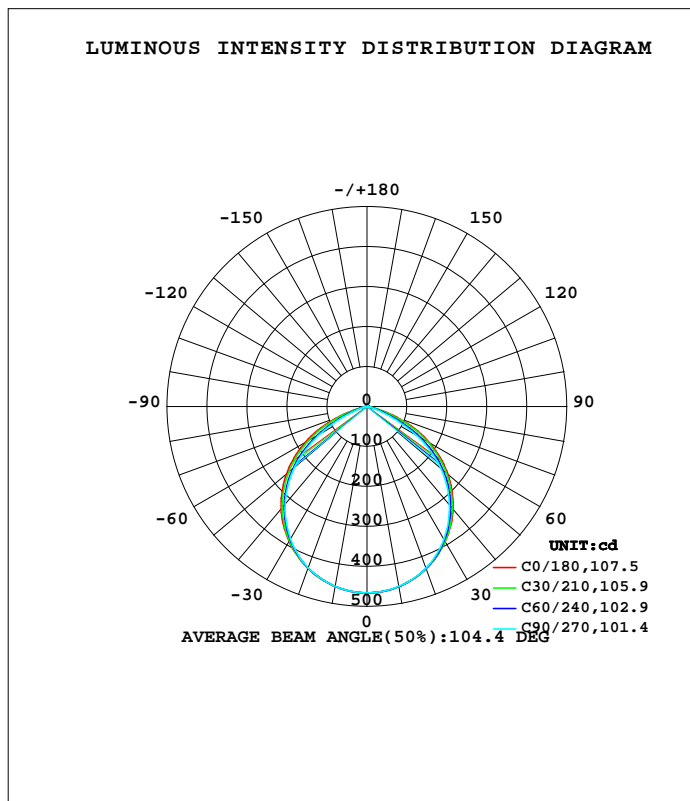


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | |
|------------------|--------------------|------------------|--------|--------------------|----------|
| MODEL | ASD-LRKR-6D15CC-WH | Imax(cd) | 466.5 | S/MH(C0/180) | 1.24 |
| NOMINAL POWER(W) | 15W | LOR(%) | 100.0 | S/MH(C90/270) | 1.23 |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 1136.7 | h UP, DN(C0-180) | 0.5,49.9 |
| NOMINAL FLUX(lm) | 1136.7 | CIE CLASS | DIRECT | h UP, DN(C180-360) | 0.5,49.2 |
| LAMPS INSIDE | 1 | h up(%) | 0.9 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 120 | h down(%) | 99.1 | CIBSE SHR MAX | 1.35 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

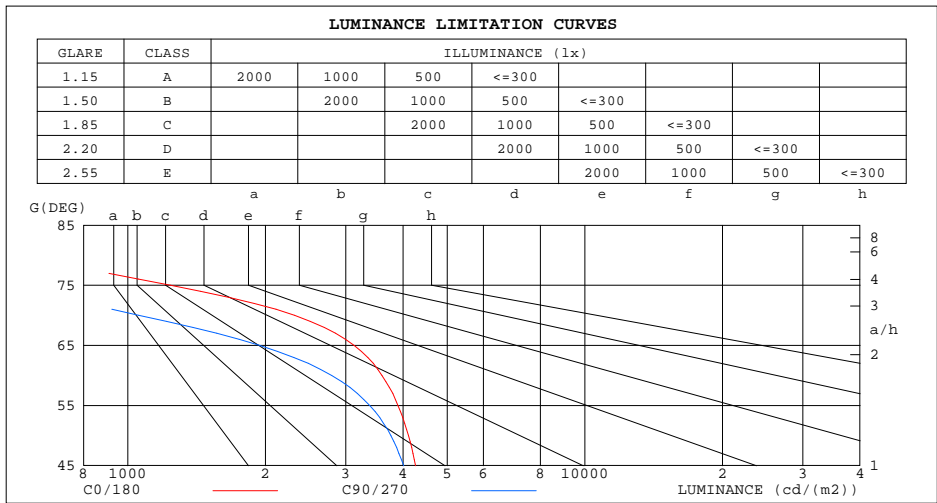
| g | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | g | F zone | F total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-----------|
| 10 | 457.9 | 457.7 | 457.1 | 457.0 | 457.5 | 456.7 | 456.8 | 457.2 | 0- 10 | 44.07 | 44.07 | 3.88,3.88 |
| 20 | 432.1 | 432.0 | 430.7 | 430.7 | 431.3 | 430.0 | 430.1 | 431.1 | 10- 20 | 125.9 | 169.9 | 14.9,14.9 |
| 30 | 390.9 | 389.4 | 384.2 | 387.2 | 389.7 | 385.9 | 382.8 | 387.6 | 20- 30 | 189.4 | 359.3 | 31.6,31.6 |
| 40 | 335.3 | 331.1 | 321.0 | 328.0 | 334.3 | 324.8 | 318.5 | 327.2 | 30- 40 | 224.5 | 583.8 | 51.4,51.4 |
| 50 | 264.4 | 256.5 | 242.0 | 252.7 | 262.7 | 247.6 | 236.3 | 250.9 | 40- 50 | 224.3 | 808.1 | 71.1,71.1 |
| 60 | 180.0 | 166.3 | 139.8 | 160.8 | 177.3 | 154.4 | 131.5 | 157.8 | 50- 60 | 184.3 | 992.5 | 87.3,87.3 |
| 70 | 79.20 | 60.80 | 36.16 | 51.62 | 73.88 | 50.90 | 33.86 | 50.63 | 60- 70 | 104.0 | 1096 | 96.5,96.5 |
| 80 | 10.10 | 8.101 | 6.360 | 7.344 | 9.327 | 7.502 | 6.455 | 7.613 | 70- 80 | 26.07 | 1123 | 98.8,98.8 |
| 90 | 0.4392 | 0.5405 | 0.3082 | 0.3790 | 0.4351 | 0.5251 | 0.3008 | 0.3247 | 80- 90 | 3.472 | 1126 | 99.1,99.1 |
| 100 | 0.8246 | 0.8975 | 0.6351 | 0.6581 | 0.7753 | 0.9137 | 0.5746 | 0.5794 | 90-100 | 0.6008 | 1127 | 99.1,99.1 |
| 110 | 1.281 | 1.277 | 1.075 | 1.115 | 1.232 | 1.338 | 0.9983 | 1.025 | 100-110 | 1.003 | 1128 | 99.2,99.2 |
| 120 | 1.789 | 1.728 | 1.583 | 1.600 | 1.712 | 1.711 | 1.489 | 1.471 | 110-120 | 1.388 | 1129 | 99.3,99.3 |
| 130 | 2.235 | 2.024 | 1.984 | 2.013 | 2.136 | 1.923 | 1.952 | 1.928 | 120-130 | 1.651 | 1131 | 99.5,99.5 |
| 140 | 2.530 | 2.442 | 2.436 | 2.425 | 2.409 | 2.347 | 2.314 | 2.347 | 130-140 | 1.721 | 1132 | 99.6,99.6 |
| 150 | 2.915 | 2.860 | 2.859 | 2.849 | 2.804 | 2.770 | 2.754 | 2.781 | 140-150 | 1.645 | 1134 | 99.8,99.8 |
| 160 | 3.300 | 3.300 | 3.238 | 3.217 | 3.217 | 3.222 | 3.178 | 3.183 | 150-160 | 1.393 | 1135 | 99.9,99.9 |
| 170 | 3.545 | 3.529 | 3.528 | 3.507 | 3.490 | 3.495 | 3.501 | 3.512 | 160-170 | 0.9535 | 1136 | 100,100 |
| 180 | 3.707 | 3.729 | 3.701 | 3.729 | 3.707 | 3.718 | 3.696 | 3.724 | 170-180 | 0.3432 | 1137 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-04-05

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.000m [K=1.1125]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 477 | 139 |
| 80 | 582 | 366 |
| 75 | 1239 | 517 |
| 70 | 2316 | 1057 |
| 65 | 3128 | 1943 |
| 60 | 3601 | 2796 |
| 55 | 3903 | 3382 |
| 50 | 4114 | 3765 |
| 45 | 4265 | 4013 |

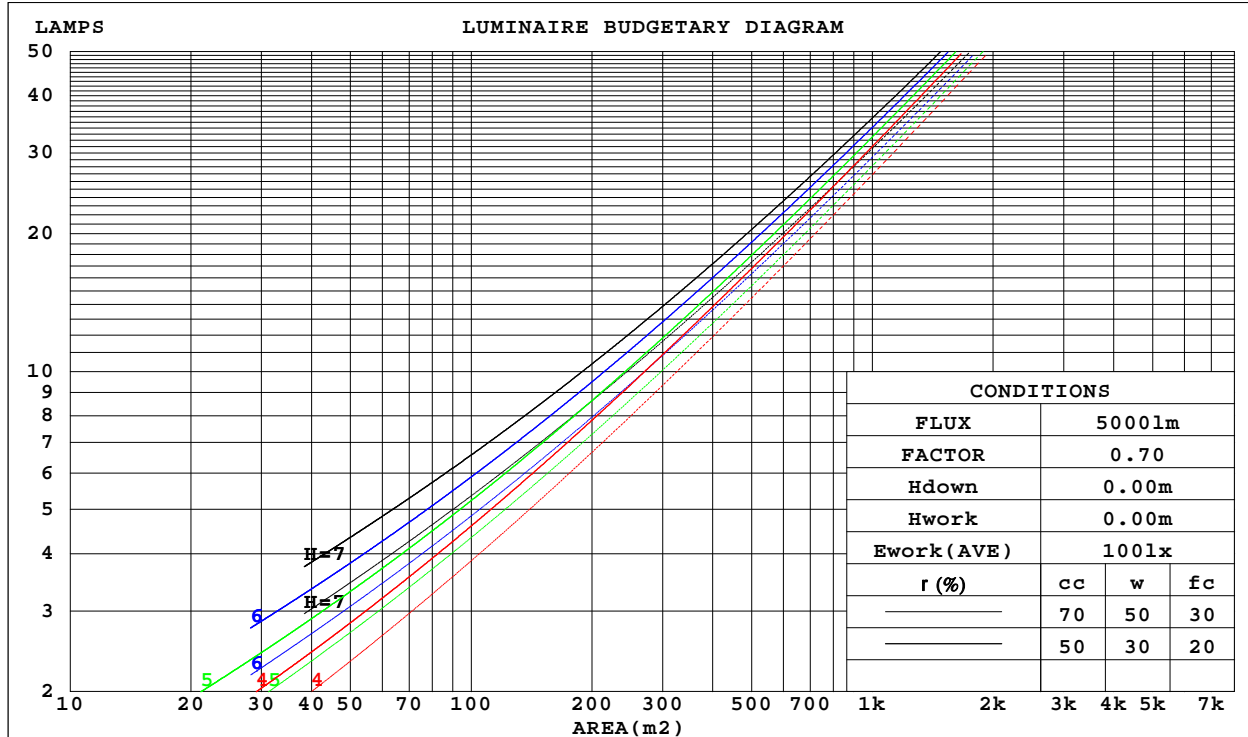
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

| | | | | | | | | | | | | | | | | |
|-----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| r _{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
| r _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r _{fc} | 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 | 1.01 | 1.01 | 1.01 | .99 |
| 1.0 | 1.06 | 1.03 | .99 | 1.04 | 1.01 | .98 | .90 | .97 | .94 | .96 | .93 | .91 | .92 | .90 | .89 | .86 |
| 2.0 | .94 | .88 | .83 | .92 | .87 | .82 | .89 | .84 | .80 | .85 | .81 | .78 | .82 | .79 | .76 | .74 |
| 3.0 | .84 | .76 | .70 | .82 | .75 | .70 | .79 | .73 | .68 | .76 | .71 | .67 | .73 | .69 | .66 | .64 |
| 4.0 | .75 | .66 | .60 | .73 | .66 | .60 | .71 | .64 | .59 | .68 | .63 | .58 | .66 | .61 | .57 | .55 |
| 5.0 | .67 | .59 | .52 | .66 | .58 | .52 | .64 | .57 | .51 | .62 | .56 | .51 | .60 | .54 | .50 | .48 |
| 6.0 | .60 | .52 | .46 | .59 | .52 | .46 | .58 | .51 | .45 | .56 | .50 | .45 | .54 | .49 | .44 | .42 |
| 7.0 | .55 | .47 | .41 | .54 | .46 | .41 | .52 | .45 | .40 | .51 | .45 | .40 | .50 | .44 | .40 | .38 |
| 8.0 | .50 | .42 | .36 | .49 | .42 | .36 | .48 | .41 | .36 | .47 | .40 | .36 | .46 | .40 | .36 | .34 |
| 9.0 | .46 | .38 | .33 | .46 | .38 | .33 | .44 | .37 | .33 | .43 | .37 | .32 | .42 | .36 | .32 | .30 |
| 10.0 | .43 | .35 | .30 | .42 | .35 | .30 | .41 | .34 | .30 | .40 | .34 | .29 | .39 | .33 | .29 | .28 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

WEC AND CCEC

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

| r cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| r w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .261 | .148 | .047 | .254 | .145 | .046 | .240 | .138 | .044 | .228 | .131 | .042 | .216 | .125 | .040 | |
| 2.0 | .255 | .140 | .043 | .249 | .137 | .042 | .237 | .132 | .041 | .226 | .127 | .040 | .216 | .122 | .038 | |
| 3.0 | .242 | .129 | .039 | .236 | .127 | .038 | .226 | .122 | .037 | .216 | .118 | .036 | .207 | .115 | .036 | |
| 4.0 | .228 | .118 | .035 | .223 | .117 | .034 | .213 | .113 | .034 | .205 | .110 | .033 | .197 | .107 | .033 | |
| 5.0 | .213 | .109 | .032 | .209 | .107 | .031 | .201 | .105 | .031 | .193 | .102 | .030 | .186 | .099 | .030 | |
| 6.0 | .200 | .100 | .029 | .196 | .099 | .029 | .189 | .097 | .028 | .182 | .095 | .028 | .175 | .092 | .027 | |
| 7.0 | .188 | .093 | .026 | .184 | .092 | .026 | .178 | .090 | .026 | .172 | .088 | .026 | .166 | .086 | .025 | |
| 8.0 | .177 | .086 | .024 | .174 | .085 | .024 | .168 | .084 | .024 | .162 | .082 | .024 | .157 | .080 | .023 | |
| 9.0 | .166 | .081 | .022 | .164 | .080 | .022 | .158 | .078 | .022 | .153 | .077 | .022 | .148 | .075 | .022 | |
| 10.0 | .157 | .075 | .021 | .155 | .075 | .021 | .150 | .073 | .021 | .145 | .072 | .020 | .141 | .071 | .020 | |

| r cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| r w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| r fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .198 | .198 | .198 | .169 | .169 | .169 | .115 | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 | |
| 1.0 | .184 | .164 | .145 | .158 | .141 | .125 | .108 | .097 | .087 | .062 | .056 | .050 | .020 | .018 | .016 | |
| 2.0 | .175 | .139 | .110 | .150 | .120 | .095 | .102 | .083 | .066 | .059 | .048 | .039 | .019 | .016 | .013 | |
| 3.0 | .166 | .121 | .086 | .143 | .105 | .074 | .098 | .073 | .052 | .057 | .042 | .031 | .018 | .014 | .010 | |
| 4.0 | .159 | .108 | .069 | .136 | .093 | .060 | .094 | .065 | .042 | .054 | .038 | .025 | .017 | .012 | .008 | |
| 5.0 | .152 | .097 | .057 | .130 | .084 | .050 | .090 | .059 | .035 | .052 | .035 | .021 | .017 | .011 | .007 | |
| 6.0 | .145 | .089 | .048 | .125 | .077 | .042 | .086 | .054 | .030 | .050 | .032 | .018 | .016 | .010 | .006 | |
| 7.0 | .139 | .082 | .042 | .119 | .071 | .037 | .082 | .050 | .026 | .048 | .029 | .015 | .015 | .010 | .005 | |
| 8.0 | .133 | .076 | .037 | .114 | .066 | .033 | .079 | .046 | .023 | .046 | .027 | .014 | .015 | .009 | .005 | |
| 9.0 | .127 | .071 | .034 | .109 | .062 | .029 | .076 | .043 | .021 | .044 | .026 | .012 | .014 | .008 | .004 | |
| 10.0 | .122 | .067 | .031 | .105 | .058 | .027 | .073 | .041 | .019 | .042 | .024 | .011 | .014 | .008 | .004 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | | | | | | | | | |
| NAME: LED DOWNLIGHT | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: 5000K | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: ASD LIGHTNG CORP | | | | | 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 | 17.1 | 18.6 | 17.5 | 18.9 | 19.3 | 15.9 | 17.5 | 16.3 | 17.8 | 18.1 |
| 3H | 18.2 | 19.6 | 18.6 | 19.9 | 20.3 | 16.3 | 17.7 | 16.7 | 18.0 | 18.4 |
| 4H | 18.4 | 19.6 | 18.8 | 20.0 | 20.4 | 16.3 | 17.6 | 16.7 | 17.9 | 18.3 |
| 6H | 18.4 | 19.5 | 18.8 | 19.9 | 20.3 | 16.3 | 17.4 | 16.7 | 17.8 | 18.2 |
| 8H | 18.3 | 19.4 | 18.8 | 19.8 | 20.3 | 16.2 | 17.3 | 16.7 | 17.7 | 18.2 |
| 12H | 18.3 | 19.4 | 18.8 | 19.8 | 20.2 | 16.2 | 17.3 | 16.7 | 17.7 | 18.1 |
| 4H 2H | 17.4 | 18.7 | 17.8 | 19.0 | 19.4 | 16.4 | 17.6 | 16.8 | 18.0 | 18.4 |
| 3H | 18.6 | 19.7 | 19.1 | 20.1 | 20.5 | 16.8 | 17.8 | 17.2 | 18.2 | 18.7 |
| 4H | 18.8 | 19.7 | 19.3 | 20.2 | 20.6 | 16.8 | 17.7 | 17.2 | 18.2 | 18.6 |
| 6H | 18.8 | 19.6 | 19.3 | 20.1 | 20.6 | 16.8 | 17.6 | 17.2 | 18.0 | 18.5 |
| 8H | 18.8 | 19.6 | 19.3 | 20.0 | 20.5 | 16.7 | 17.5 | 17.2 | 17.9 | 18.4 |
| 12H | 18.8 | 19.5 | 19.3 | 20.0 | 20.4 | 16.7 | 17.4 | 17.2 | 17.9 | 18.4 |
| 8H 4H | 18.8 | 19.5 | 19.2 | 20.0 | 20.5 | 16.8 | 17.5 | 17.3 | 18.0 | 18.5 |
| 6H | 18.8 | 19.4 | 19.3 | 19.9 | 20.4 | 16.8 | 17.4 | 17.3 | 17.9 | 18.4 |
| 8H | 18.8 | 19.3 | 19.3 | 19.8 | 20.3 | 16.7 | 17.3 | 17.3 | 17.8 | 18.3 |
| 12H | 18.7 | 19.2 | 19.3 | 19.7 | 20.3 | 16.7 | 17.2 | 17.2 | 17.7 | 18.3 |
| 12H 4H | 18.7 | 19.4 | 19.2 | 19.9 | 20.4 | 16.8 | 17.4 | 17.3 | 17.9 | 18.4 |
| 6H | 18.7 | 19.3 | 19.3 | 19.8 | 20.3 | 16.7 | 17.3 | 17.3 | 17.8 | 18.3 |
| 8H | 18.7 | 19.2 | 19.3 | 19.7 | 20.3 | 16.7 | 17.2 | 17.2 | 17.7 | 18.3 |
| CIE190: 2010 | | | | | | | | | | |
| | | | | | | | | | | |

CIE190: 2010
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-04-05

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.000m [K=1.1125]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

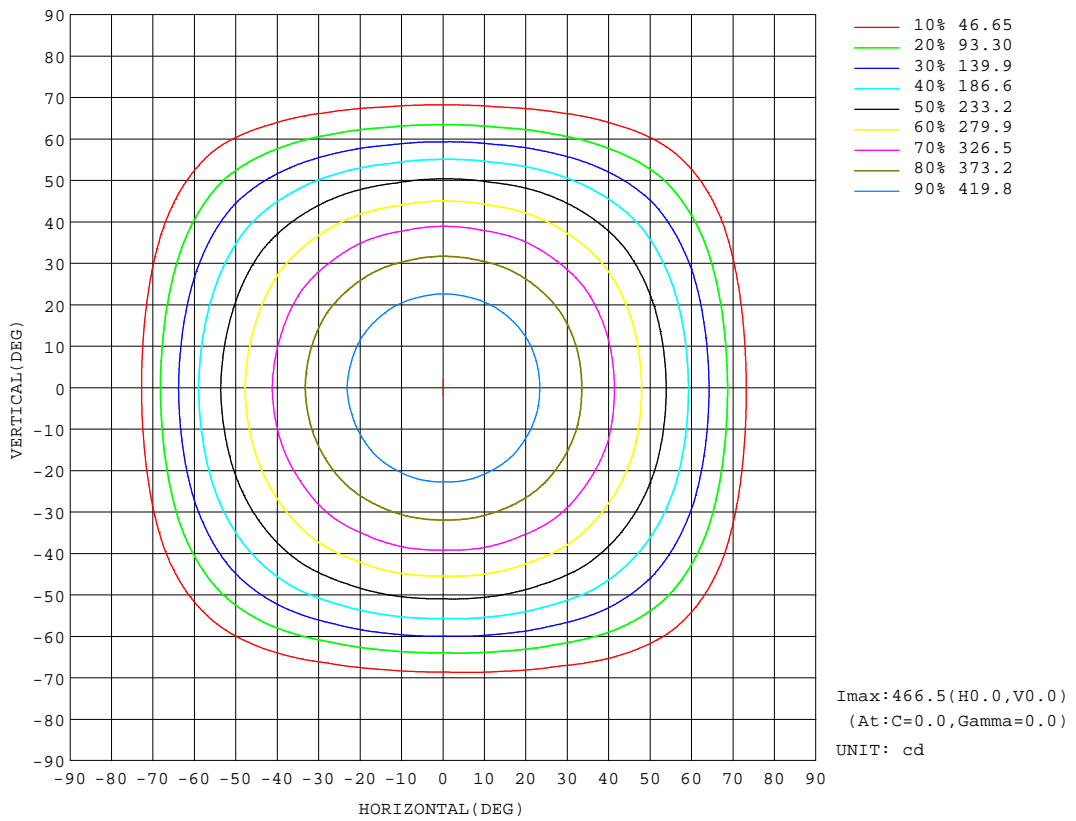
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 61 | 50 | 43 | 60 | 50 | 43 | 59 | 49 | 43 | 37 |
| 0.80 | 71 | 61 | 54 | 70 | 60 | 54 | 69 | 59 | 53 | 47 |
| 1.00 | 80 | 70 | 63 | 79 | 69 | 63 | 77 | 70 | 63 | 56 |
| 1.25 | 87 | 78 | 71 | 86 | 77 | 71 | 83 | 76 | 70 | 63 |
| 1.50 | 92 | 83 | 77 | 90 | 82 | 77 | 87 | 81 | 75 | 68 |
| 2.00 | 98 | 91 | 85 | 97 | 90 | 85 | 93 | 87 | 83 | 76 |
| 2.50 | 102 | 95 | 90 | 100 | 94 | 89 | 96 | 91 | 87 | 79 |
| 3.00 | 105 | 99 | 94 | 103 | 97 | 93 | 99 | 94 | 91 | 83 |
| 4.00 | 108 | 103 | 99 | 106 | 102 | 98 | 102 | 98 | 95 | 87 |
| 5.00 | 110 | 106 | 103 | 108 | 104 | 101 | 103 | 100 | 98 | 89 |
| 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: 25.3DEG
Operators:
Test Date: 2021-04-05

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.1125]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

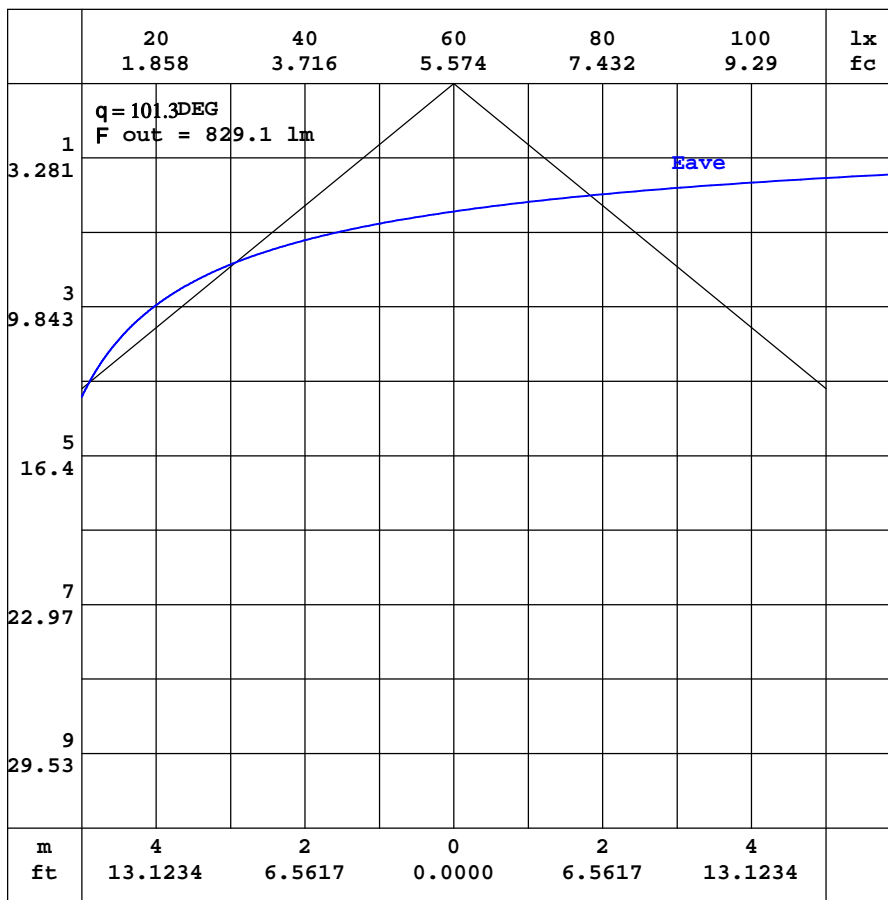


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

AAI CURVES

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |



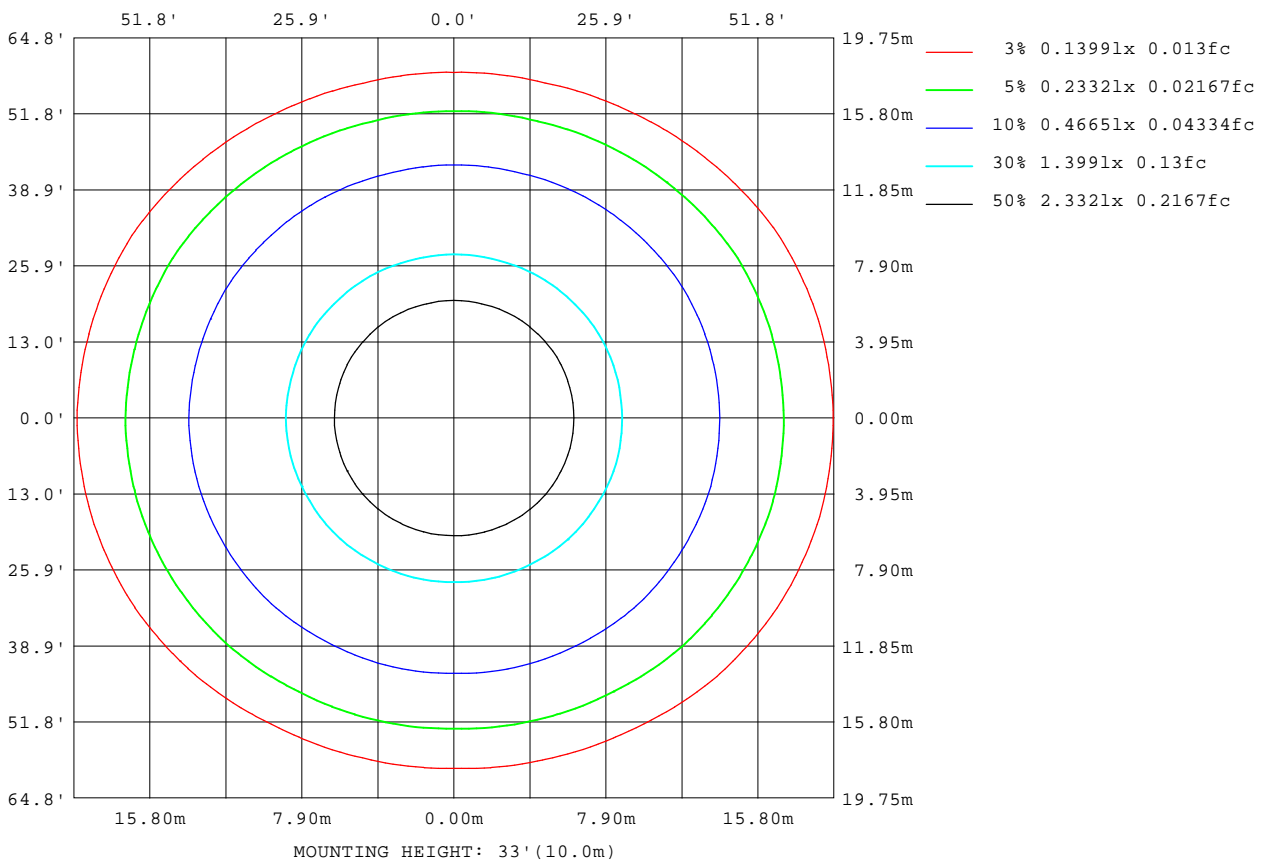
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.1125]
 Remarks:

LED Avg.L Report

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

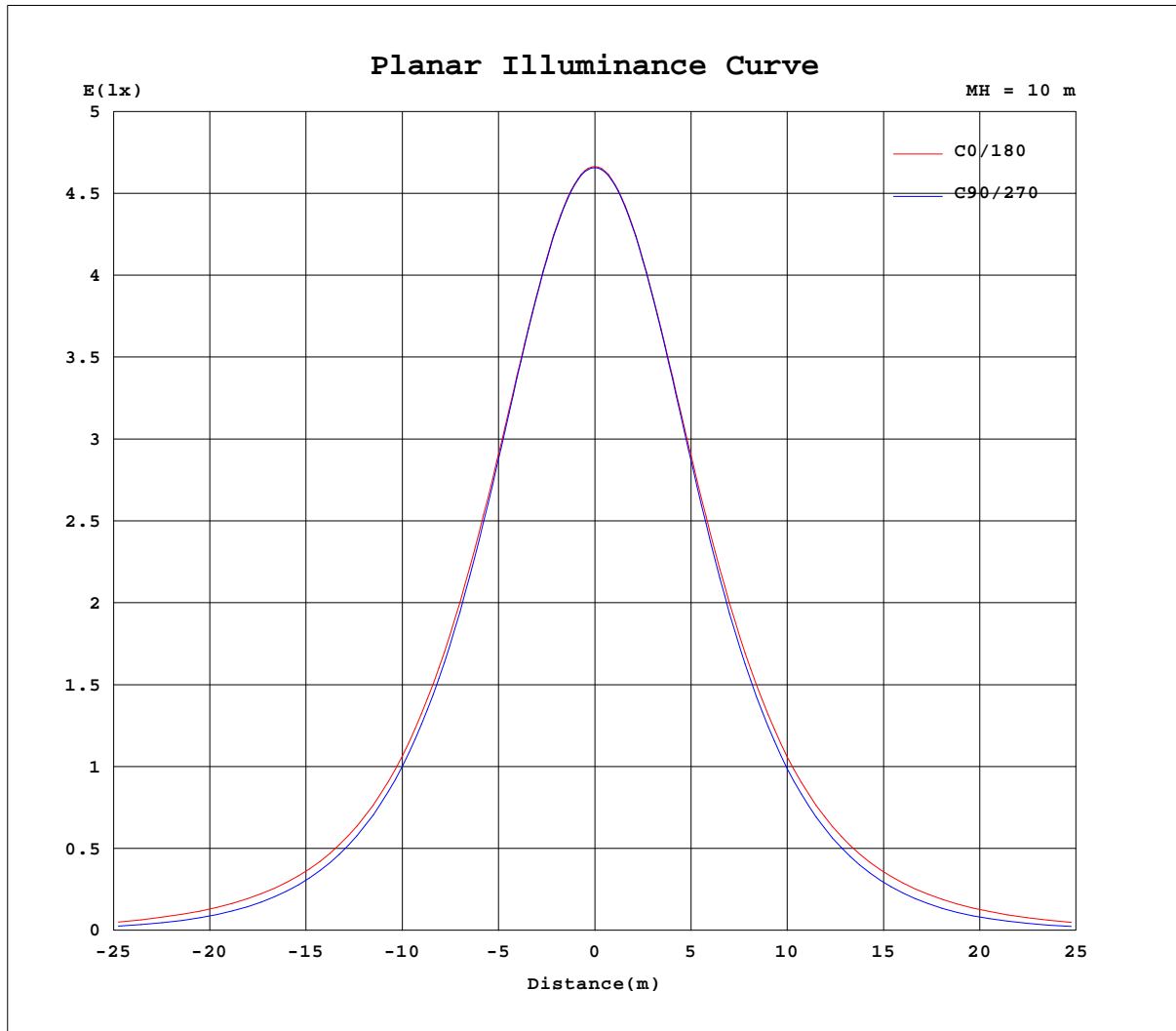
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 3075 |
| L_0~180(75)av | 1184 |
| L_0~180(85)av | 457 |
| L_90~270(65)av | 1870 |
| L_90~270(75)av | 518 |
| L_90~270(85)av | 162 |
| L_45(65)av | 2505 |
| L_45(75)av | 774 |
| L_45(85)av | 299 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-04-05

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.000m [K=1.1125]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.1125]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7xl lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C(DEG) g (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 | 466 |
| 5 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 |
| 10 | 458 | 458 | 458 | 458 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 | 457 |
| 15 | 447 | 447 | 447 | 447 | 446 | 447 | 446 | 446 | 446 | 446 | 446 | 446 | 446 | 446 | 446 | 445 | 446 | 445 | 446 |
| 20 | 432 | 432 | 432 | 432 | 431 | 431 | 431 | 431 | 431 | 431 | 430 | 430 | 431 | 431 | 431 | 430 | 430 | 430 | 430 |
| 25 | 413 | 413 | 413 | 413 | 412 | 411 | 410 | 410 | 410 | 411 | 411 | 411 | 412 | 411 | 411 | 410 | 410 | 409 | 409 |
| 30 | 391 | 391 | 390 | 389 | 387 | 386 | 384 | 385 | 385 | 387 | 388 | 389 | 390 | 389 | 388 | 386 | 385 | 382 | 383 |
| 35 | 365 | 366 | 364 | 362 | 358 | 356 | 354 | 355 | 356 | 359 | 361 | 362 | 364 | 362 | 361 | 357 | 355 | 352 | 352 |
| 40 | 335 | 338 | 333 | 331 | 326 | 324 | 321 | 323 | 324 | 328 | 329 | 333 | 334 | 332 | 331 | 325 | 322 | 318 | 318 |
| 45 | 302 | 302 | 298 | 295 | 290 | 287 | 284 | 286 | 287 | 292 | 294 | 298 | 300 | 297 | 294 | 288 | 284 | 279 | 280 |
| 50 | 264 | 264 | 260 | 257 | 249 | 246 | 242 | 244 | 246 | 253 | 255 | 260 | 263 | 259 | 255 | 248 | 242 | 236 | 236 |
| 55 | 224 | 224 | 218 | 214 | 204 | 199 | 194 | 197 | 200 | 209 | 214 | 219 | 222 | 217 | 213 | 203 | 195 | 187 | 187 |
| 60 | 180 | 180 | 174 | 166 | 153 | 145 | 140 | 143 | 149 | 161 | 169 | 175 | 177 | 173 | 167 | 154 | 142 | 133 | 131 |
| 65 | 132 | 132 | 125 | 113 | 96.9 | 87.4 | 82.1 | 84.0 | 90.8 | 106 | 119 | 125 | 128 | 124 | 117 | 102 | 87.2 | 77.8 | 76.0 |
| 70 | 79.2 | 79.5 | 73.0 | 60.8 | 46.7 | 40.0 | 36.2 | 37.1 | 41.1 | 51.6 | 63.1 | 71.0 | 73.9 | 71.2 | 65.3 | 50.9 | 40.5 | 35.0 | 33.9 |
| 75 | 32.1 | 32.8 | 29.5 | 23.1 | 17.2 | 14.5 | 13.4 | 13.6 | 15.0 | 18.6 | 22.7 | 27.1 | 29.2 | 27.9 | 25.0 | 19.1 | 15.8 | 13.6 | 13.4 |
| 80 | 10.1 | 10.2 | 9.22 | 8.10 | 7.19 | 6.70 | 6.36 | 6.46 | 6.65 | 7.34 | 8.04 | 8.94 | 9.33 | 9.08 | 8.53 | 7.50 | 6.98 | 6.47 | 6.45 |
| 85 | 4.16 | 4.04 | 6.49 | 3.07 | 1.98 | 1.60 | 1.22 | 1.38 | 1.67 | 2.24 | 2.80 | 3.51 | 3.80 | 3.63 | 3.16 | 2.47 | 2.08 | 1.70 | 1.60 |
| 90 | 0.44 | 0.55 | 0.58 | 0.54 | 0.45 | 0.36 | 0.31 | 0.27 | 0.28 | 0.38 | 0.46 | 0.50 | 0.44 | 0.56 | 0.54 | 0.53 | 0.39 | 0.32 | 0.30 |
| 95 | 0.62 | 0.71 | 0.97 | 0.69 | 0.58 | 0.51 | 0.46 | 0.42 | 0.40 | 0.47 | 0.56 | 0.62 | 0.60 | 0.73 | 0.63 | 0.64 | 0.51 | 0.45 | 0.40 |
| 100 | 0.82 | 0.90 | 1.37 | 0.90 | 0.77 | 0.67 | 0.64 | 0.60 | 0.59 | 0.66 | 0.75 | 0.81 | 0.78 | 0.94 | 0.83 | 0.91 | 0.69 | 0.62 | 0.57 |
| 105 | 1.03 | 1.11 | 1.47 | 1.09 | 0.98 | 0.87 | 0.84 | 0.81 | 0.81 | 0.88 | 0.97 | 1.01 | 0.98 | 1.11 | 1.15 | 1.22 | 0.89 | 0.80 | 0.79 |
| 110 | 1.28 | 1.34 | 1.50 | 1.28 | 1.21 | 1.11 | 1.08 | 1.05 | 1.06 | 1.12 | 1.20 | 1.25 | 1.23 | 1.31 | 1.38 | 1.34 | 1.13 | 1.04 | 1.00 |
| 115 | 1.53 | 1.57 | 1.66 | 1.50 | 1.44 | 1.36 | 1.33 | 1.30 | 1.30 | 1.36 | 1.44 | 1.51 | 1.46 | 1.52 | 1.56 | 1.52 | 1.37 | 1.29 | 1.24 |
| 120 | 1.79 | 1.80 | 1.82 | 1.73 | 1.68 | 1.61 | 1.58 | 1.56 | 1.55 | 1.60 | 1.68 | 1.75 | 1.71 | 1.73 | 1.73 | 1.71 | 1.59 | 1.53 | 1.49 |
| 125 | 2.01 | 2.01 | 2.00 | 1.80 | 1.91 | 1.86 | 1.83 | 1.80 | 1.80 | 1.81 | 1.91 | 1.96 | 1.92 | 1.93 | 1.91 | 1.73 | 1.83 | 1.78 | 1.73 |
| 130 | 2.23 | 2.22 | 2.17 | 2.02 | 2.13 | 1.98 | 1.98 | 1.99 | 2.00 | 2.01 | 2.06 | 2.17 | 2.14 | 2.13 | 2.10 | 1.92 | 2.03 | 2.00 | 1.95 |
| 135 | 2.31 | 2.30 | 2.27 | 2.24 | 2.35 | 2.31 | 2.22 | 2.24 | 2.22 | 2.24 | 2.26 | 2.29 | 2.21 | 2.19 | 2.17 | 2.13 | 2.23 | 2.20 | 2.18 |
| 140 | 2.53 | 2.50 | 2.47 | 2.44 | 2.49 | 2.48 | 2.44 | 2.45 | 2.42 | 2.43 | 2.46 | 2.50 | 2.41 | 2.39 | 2.37 | 2.35 | 2.32 | 2.40 | 2.31 |
| 145 | 2.75 | 2.81 | 2.68 | 2.65 | 2.64 | 2.65 | 2.65 | 2.63 | 2.63 | 2.64 | 2.68 | 2.78 | 2.62 | 2.71 | 2.58 | 2.55 | 2.53 | 2.60 | 2.54 |
| 150 | 2.92 | 2.89 | 2.87 | 2.86 | 2.85 | 2.85 | 2.86 | 2.84 | 2.83 | 2.85 | 2.86 | 2.89 | 2.80 | 2.79 | 2.78 | 2.77 | 2.74 | 2.76 | 2.75 |
| 155 | 3.08 | 3.07 | 3.05 | 3.05 | 3.05 | 3.06 | 3.06 | 3.07 | 3.05 | 3.03 | 3.05 | 3.07 | 2.98 | 2.98 | 2.97 | 2.97 | 2.95 | 2.97 | 2.98 |
| 160 | 3.30 | 3.23 | 3.23 | 3.30 | 3.29 | 3.24 | 3.24 | 3.23 | 3.24 | 3.22 | 3.25 | 3.28 | 3.22 | 3.17 | 3.17 | 3.22 | 3.22 | 3.17 | 3.18 |
| 165 | 3.45 | 3.39 | 3.38 | 3.45 | 3.44 | 3.40 | 3.41 | 3.38 | 3.37 | 3.37 | 3.39 | 3.42 | 3.38 | 3.36 | 3.35 | 3.38 | 3.37 | 3.35 | 3.36 |
| 170 | 3.55 | 3.52 | 3.53 | 3.53 | 3.55 | 3.55 | 3.53 | 3.51 | 3.51 | 3.51 | 3.54 | 3.55 | 3.49 | 3.51 | 3.51 | 3.49 | 3.48 | 3.49 | 3.50 |
| 175 | 3.65 | 3.65 | 3.65 | 3.66 | 3.66 | 3.63 | 3.62 | 3.62 | 3.63 | 3.65 | 3.66 | 3.65 | 3.61 | 3.62 | 3.64 | 3.63 | 3.62 | 3.60 | 3.60 |
| 180 | 3.71 | 3.70 | 3.71 | 3.73 | 3.71 | 3.70 | 3.70 | 3.70 | 3.70 | 3.73 | 3.71 | 3.72 | 3.71 | 3.70 | 3.70 | 3.72 | 3.71 | 3.70 | 3.70 |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------|------------------|
| Test:U:120.17V I:0.1179A P:13.543W PF:0.9561 Freq:59.98Hz Lamp Flux:1136.7x1 lm | | |
| NAME: LED DOWNLIGHT | TYPE: | WEIGHT: |
| SPEC.: 5000K | DIM.: | SERIAL No.: |
| MFR.: ASD LIGHTNG CORP | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C(DEG) g (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 466 | 466 | 466 | 466 | 466 | | | | | | | | | | | | | | | |
| 5 | 464 | 464 | 464 | 464 | 464 | | | | | | | | | | | | | | | |
| 10 | 457 | 457 | 457 | 458 | 458 | | | | | | | | | | | | | | | |
| 15 | 445 | 446 | 446 | 447 | 447 | | | | | | | | | | | | | | | |
| 20 | 430 | 431 | 431 | 432 | 432 | | | | | | | | | | | | | | | |
| 25 | 409 | 411 | 412 | 413 | 413 | | | | | | | | | | | | | | | |
| 30 | 383 | 386 | 388 | 390 | 391 | | | | | | | | | | | | | | | |
| 35 | 353 | 357 | 359 | 363 | 365 | | | | | | | | | | | | | | | |
| 40 | 319 | 324 | 327 | 333 | 335 | | | | | | | | | | | | | | | |
| 45 | 280 | 287 | 291 | 298 | 300 | | | | | | | | | | | | | | | |
| 50 | 238 | 245 | 251 | 259 | 263 | | | | | | | | | | | | | | | |
| 55 | 189 | 198 | 207 | 217 | 222 | | | | | | | | | | | | | | | |
| 60 | 134 | 144 | 158 | 171 | 177 | | | | | | | | | | | | | | | |
| 65 | 77.5 | 87.3 | 103 | 120 | 129 | | | | | | | | | | | | | | | |
| 70 | 34.9 | 40.6 | 50.6 | 65.8 | 75.8 | | | | | | | | | | | | | | | |
| 75 | 13.7 | 16.0 | 19.2 | 25.1 | 29.8 | | | | | | | | | | | | | | | |
| 80 | 6.52 | 7.10 | 7.61 | 8.77 | 9.74 | | | | | | | | | | | | | | | |
| 85 | 1.70 | 2.11 | 2.63 | 3.34 | 3.86 | | | | | | | | | | | | | | | |
| 90 | 0.24 | 0.26 | 0.32 | 0.37 | 0.38 | | | | | | | | | | | | | | | |
| 95 | 0.37 | 0.33 | 0.40 | 0.45 | 0.50 | | | | | | | | | | | | | | | |
| 100 | 0.55 | 0.52 | 0.58 | 0.65 | 0.70 | | | | | | | | | | | | | | | |
| 105 | 0.75 | 0.73 | 0.79 | 0.86 | 0.89 | | | | | | | | | | | | | | | |
| 110 | 0.98 | 0.96 | 1.03 | 1.07 | 1.13 | | | | | | | | | | | | | | | |
| 115 | 1.21 | 1.20 | 1.27 | 1.32 | 1.38 | | | | | | | | | | | | | | | |
| 120 | 1.47 | 1.46 | 1.47 | 1.57 | 1.63 | | | | | | | | | | | | | | | |
| 125 | 1.71 | 1.68 | 1.71 | 1.80 | 1.86 | | | | | | | | | | | | | | | |
| 130 | 1.91 | 1.91 | 1.93 | 1.98 | 2.07 | | | | | | | | | | | | | | | |
| 135 | 2.12 | 2.13 | 2.15 | 2.16 | 2.17 | | | | | | | | | | | | | | | |
| 140 | 2.34 | 2.33 | 2.35 | 2.36 | 2.39 | | | | | | | | | | | | | | | |
| 145 | 2.56 | 2.54 | 2.56 | 2.58 | 2.67 | | | | | | | | | | | | | | | |
| 150 | 2.78 | 2.77 | 2.78 | 2.78 | 2.79 | | | | | | | | | | | | | | | |
| 155 | 3.03 | 3.00 | 2.99 | 2.97 | 2.98 | | | | | | | | | | | | | | | |
| 160 | 3.23 | 3.22 | 3.18 | 3.17 | 3.19 | | | | | | | | | | | | | | | |
| 165 | 3.38 | 3.36 | 3.36 | 3.34 | 3.39 | | | | | | | | | | | | | | | |
| 170 | 3.52 | 3.52 | 3.51 | 3.50 | 3.51 | | | | | | | | | | | | | | | |
| 175 | 3.63 | 3.65 | 3.65 | 3.64 | 3.64 | | | | | | | | | | | | | | | |
| 180 | 3.70 | 3.71 | 3.72 | 3.71 | 3.71 | | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-04-05

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:8.000m [K=1.1125]
 Remarks: