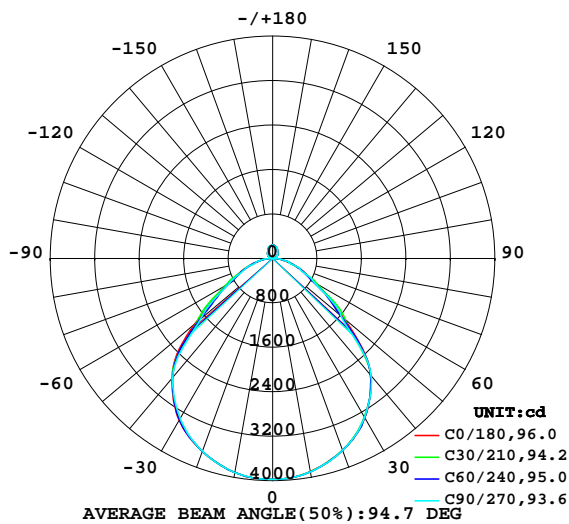


LUMINAIRE PHOTOMETRIC TEST REPORT

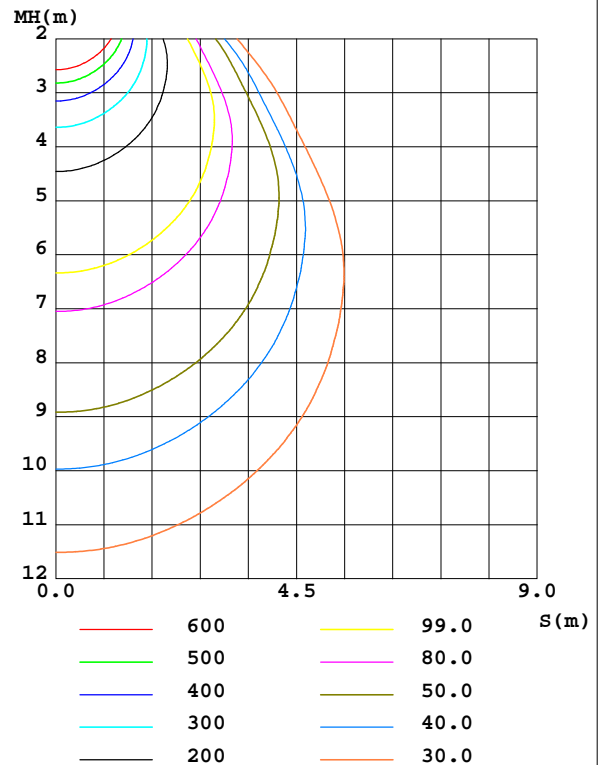
| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 109.01 lm/W |
|------------------|---------|------------------|--------|------------------------|----------|------------------|
| MODEL | | Imax(cd) | 3976 | S/MH(C0/180) | 1.25 | |
| NOMINAL POWER(W) | 90 | LOR(%) | 100.0 | S/MH(C90/270) | 1.24 | |
| RATED VOLTAGE(V) | 230 | TOTAL FLUX(lm) | 9679.6 | η UP,DN(C0-180) | 3.2,45.7 | |
| NOMINAL FLUX(lm) | 9679.55 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 3.1,48.0 | |
| LAMPS INSIDE | 1 | η up(%) | 6.3 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE(V) | 229.5 | η down(%) | 93.7 | CIBSE SHR MAX | 1.35 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [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 | 3896 | 3899 | 3900 | 3881 | 3911 | 3912 | 3912 | 3927 | 0- 10 | 376.3 | 376.3 | 3.89,3.89 |
| 20 | 3675 | 3675 | 3676 | 3645 | 3696 | 3698 | 3693 | 3724 | 10- 20 | 1075 | 1451 | 15,15 |
| 30 | 3313 | 3307 | 3304 | 3262 | 3366 | 3347 | 3327 | 3390 | 20- 30 | 1625 | 3076 | 31.8,31.8 |
| 40 | 2753 | 2743 | 2757 | 2679 | 2814 | 2809 | 2797 | 2864 | 30- 40 | 1920 | 4996 | 51.6,51.6 |
| 50 | 1670 | 1648 | 1614 | 1616 | 1824 | 1752 | 1696 | 1846 | 40- 50 | 1750 | 6746 | 69.7,69.7 |
| 60 | 877.9 | 889.0 | 865.7 | 850.2 | 952.8 | 954.3 | 914.0 | 999.6 | 50- 60 | 1153 | 7899 | 81.6,81.6 |
| 70 | 488.8 | 501.1 | 515.5 | 469.9 | 528.9 | 518.6 | 515.9 | 536.2 | 60- 70 | 681.1 | 8580 | 88.6,88.6 |
| 80 | 202.6 | 211.7 | 217.2 | 196.2 | 226.2 | 234.3 | 237.6 | 263.5 | 70- 80 | 371.5 | 8952 | 92.5,92.5 |
| 90 | 1.841 | 1.805 | 1.784 | 2.163 | 5.168 | 5.227 | 2.705 | 17.53 | 80- 90 | 117.4 | 9069 | 93.7,93.7 |
| 100 | 27.82 | 27.59 | 26.69 | 29.82 | 23.38 | 23.76 | 24.30 | 21.07 | 90-100 | 12.07 | 9081 | 93.8,93.8 |
| 110 | 63.74 | 63.96 | 62.95 | 65.96 | 59.45 | 59.89 | 60.64 | 57.08 | 100-110 | 46.37 | 9128 | 94.3,94.3 |
| 120 | 94.80 | 95.57 | 95.23 | 97.30 | 91.91 | 91.68 | 91.73 | 88.77 | 110-120 | 77.04 | 9205 | 95.1,95.1 |
| 130 | 124.0 | 124.3 | 123.6 | 125.5 | 119.6 | 119.4 | 120.5 | 116.7 | 120-130 | 96.34 | 9301 | 96.1,96.1 |
| 140 | 146.4 | 146.9 | 146.3 | 147.7 | 142.5 | 143.0 | 144.5 | 141.0 | 130-140 | 103.3 | 9404 | 97.2,97.2 |
| 150 | 181.8 | 182.1 | 181.4 | 183.9 | 177.5 | 176.8 | 177.0 | 172.6 | 140-150 | 98.94 | 9503 | 98.2,98.2 |
| 160 | 213.4 | 214.0 | 213.5 | 214.9 | 211.4 | 211.3 | 211.6 | 208.2 | 150-160 | 90.69 | 9594 | 99.1,99.1 |
| 170 | 234.0 | 233.6 | 232.5 | 233.1 | 232.8 | 231.9 | 231.3 | 229.7 | 160-170 | 62.93 | 9657 | 99.8,99.8 |
| 180 | 244.0 | 243.2 | 242.3 | 241.9 | 244.0 | 243.2 | 242.2 | 241.9 | 170-180 | 22.59 | 9680 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT: lm | | |

Conical surface Flux(90deg): 5943.9 lm

%lum = 61.4%

%lamp = 61.4%

Conical surface Flux(130deg): 8284 lm

%lum = 85.6%

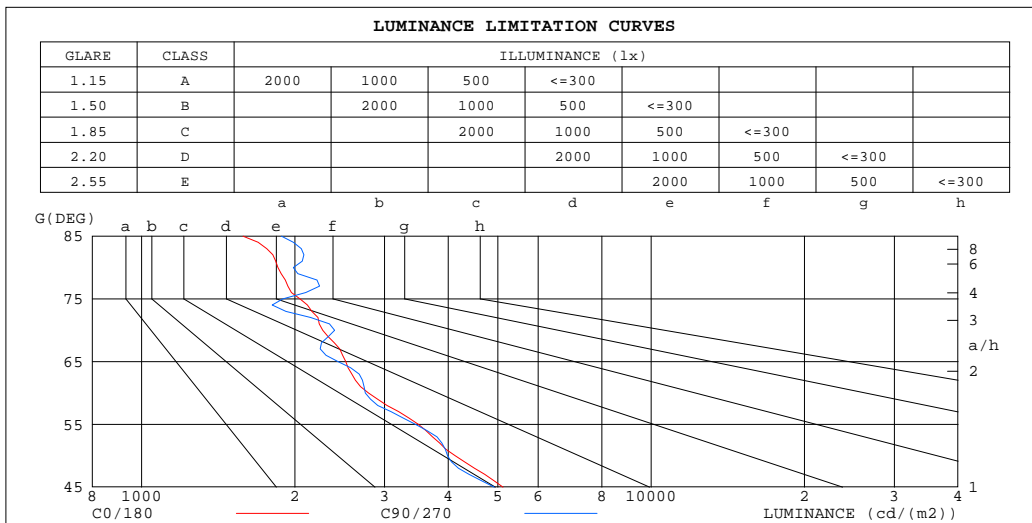
%lamp = 85.6%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Mr.Ma
Test Date:2024-10-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 1582 | 1881 |
| 80 | 1853 | 1985 |
| 75 | 2048 | 1892 |
| 70 | 2269 | 2392 |
| 65 | 2515 | 2432 |
| 60 | 2788 | 2748 |
| 55 | 3494 | 3450 |
| 50 | 4125 | 3986 |
| 45 | 5119 | 4922 |

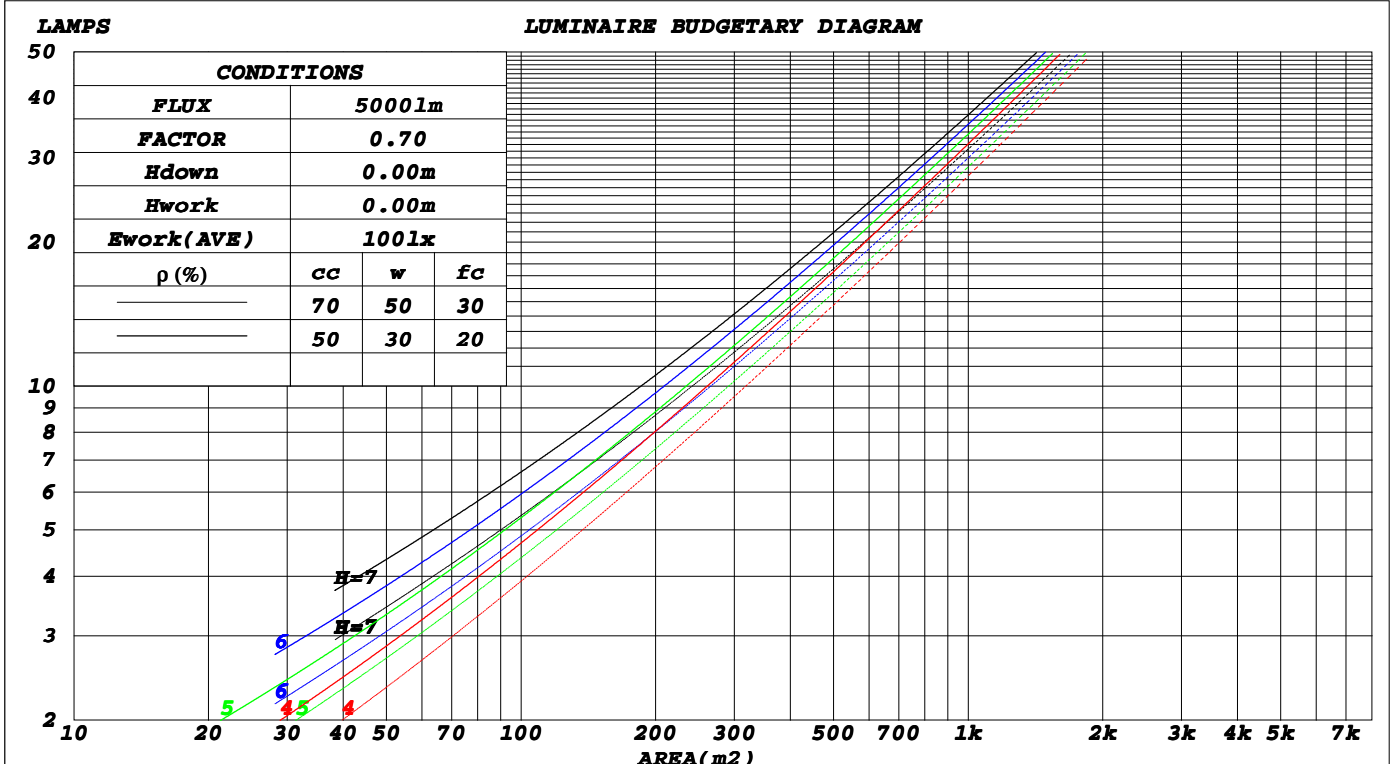
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | 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 Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | 1.02 | 1.02 | 1.02 | .96 | .96 | .96 | .94 |
| 1.0 | 1.04 | 1.01 | .97 | 1.02 | .98 | .95 | .96 | .94 | .91 | .91 | .89 | .87 | .87 | .85 | .84 | .81 |
| 2.0 | .93 | .87 | .81 | .90 | .85 | .80 | .86 | .81 | .77 | .82 | .78 | .75 | .78 | .75 | .72 | .70 |
| 3.0 | .82 | .75 | .69 | .80 | .74 | .68 | .77 | .71 | .66 | .73 | .68 | .64 | .70 | .66 | .63 | .60 |
| 4.0 | .74 | .66 | .60 | .72 | .65 | .59 | .69 | .63 | .58 | .66 | .61 | .56 | .63 | .59 | .55 | .53 |
| 5.0 | .67 | .58 | .52 | .65 | .57 | .52 | .62 | .56 | .51 | .60 | .54 | .50 | .57 | .52 | .49 | .46 |
| 6.0 | .60 | .52 | .46 | .59 | .51 | .46 | .57 | .50 | .45 | .55 | .49 | .44 | .52 | .47 | .43 | .41 |
| 7.0 | .55 | .47 | .41 | .54 | .46 | .41 | .52 | .45 | .40 | .50 | .44 | .39 | .48 | .43 | .39 | .37 |
| 8.0 | .50 | .42 | .37 | .49 | .42 | .37 | .48 | .41 | .36 | .46 | .40 | .36 | .44 | .39 | .35 | .33 |
| 9.0 | .46 | .39 | .33 | .46 | .38 | .33 | .44 | .37 | .33 | .43 | .37 | .32 | .41 | .36 | .32 | .30 |
| 10.0 | .43 | .35 | .30 | .42 | .35 | .30 | .41 | .34 | .30 | .39 | .34 | .29 | .38 | .33 | .29 | .27 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | 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 | .270 | .153 | .049 | .261 | .149 | .047 | .244 | .140 | .045 | .229 | .132 | .042 | .215 | .125 | .040 | | | | | | | | | | | | | | | |
| 2.0 | .256 | .141 | .043 | .249 | .137 | .042 | .234 | .130 | .040 | .220 | .124 | .039 | .208 | .118 | .037 | | | | | | | | | | | | | | | |
| 3.0 | .240 | .128 | .038 | .233 | .125 | .038 | .220 | .119 | .036 | .208 | .114 | .035 | .197 | .109 | .034 | | | | | | | | | | | | | | | |
| 4.0 | .224 | .117 | .034 | .218 | .114 | .034 | .206 | .109 | .033 | .195 | .105 | .032 | .185 | .101 | .031 | | | | | | | | | | | | | | | |
| 5.0 | .209 | .107 | .031 | .204 | .105 | .030 | .193 | .101 | .030 | .184 | .097 | .029 | .174 | .093 | .028 | | | | | | | | | | | | | | | |
| 6.0 | .196 | .098 | .028 | .191 | .096 | .028 | .182 | .093 | .027 | .173 | .090 | .026 | .164 | .087 | .026 | | | | | | | | | | | | | | | |
| 7.0 | .184 | .091 | .026 | .179 | .089 | .025 | .171 | .086 | .025 | .163 | .083 | .024 | .155 | .081 | .024 | | | | | | | | | | | | | | | |
| 8.0 | .173 | .084 | .024 | .169 | .083 | .023 | .161 | .080 | .023 | .154 | .078 | .022 | .147 | .075 | .022 | | | | | | | | | | | | | | | |
| 9.0 | .163 | .079 | .022 | .159 | .078 | .022 | .152 | .075 | .021 | .145 | .073 | .021 | .139 | .071 | .020 | | | | | | | | | | | | | | | |
| 10.0 | .154 | .074 | .021 | .151 | .073 | .020 | .144 | .071 | .020 | .138 | .069 | .019 | .132 | .066 | .019 | | | | | | | | | | | | | | | |

| 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 | .239 | .239 | .239 | .204 | .204 | .204 | .139 | .139 | .139 | .080 | .080 | .080 | .026 | .026 | .026 | |
| 1.0 | .226 | .205 | .186 | .193 | .176 | .160 | .132 | .121 | .111 | .076 | .070 | .064 | .024 | .023 | .021 | |
| 2.0 | .216 | .181 | .151 | .185 | .156 | .131 | .127 | .108 | .091 | .073 | .063 | .053 | .023 | .020 | .017 | |
| 3.0 | .208 | .163 | .128 | .178 | .141 | .111 | .122 | .098 | .078 | .071 | .057 | .046 | .023 | .019 | .015 | |
| 4.0 | .200 | .150 | .111 | .172 | .129 | .097 | .118 | .090 | .068 | .068 | .053 | .040 | .022 | .017 | .013 | |
| 5.0 | .193 | .139 | .100 | .165 | .120 | .087 | .114 | .084 | .061 | .066 | .049 | .036 | .021 | .016 | .012 | |
| 6.0 | .186 | .131 | .091 | .160 | .113 | .079 | .110 | .079 | .056 | .064 | .047 | .033 | .021 | .015 | .011 | |
| 7.0 | .179 | .124 | .085 | .154 | .107 | .074 | .107 | .075 | .052 | .062 | .044 | .031 | .020 | .015 | .010 | |
| 8.0 | .173 | .118 | .080 | .149 | .102 | .070 | .103 | .072 | .050 | .060 | .042 | .030 | .019 | .014 | .010 | |
| 9.0 | .168 | .113 | .076 | .145 | .098 | .067 | .100 | .069 | .047 | .058 | .041 | .028 | .019 | .013 | .009 | |
| 10.0 | .163 | .109 | .073 | .140 | .095 | .064 | .097 | .067 | .045 | .057 | .039 | .027 | .018 | .013 | .009 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|-------------------------|-------------|-------------|-------------|-------------|-----------------------|-------------|------------------|-------------|-------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | | | | | | | | | |
| NAME: LED348 (90W 3000K Uplight On) | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | |
| MFR.: | | | | | 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 | 8.5 | 9.8 | 8.8 | 10.1 | 10.4 | 8.2 | 9.5 | 8.6 | 9.8 | 10.1 |
| 3H | 9.2 | 10.4 | 9.6 | 10.7 | 11.1 | 9.0 | 10.2 | 9.4 | 10.5 | 10.9 |
| 4H | 9.5 | 10.6 | 9.9 | 11.0 | 11.4 | 9.3 | 10.4 | 9.7 | 10.8 | 11.2 |
| 6H | 9.8 | 10.8 | 10.2 | 11.2 | 11.6 | 9.6 | 10.7 | 10.0 | 11.1 | 11.5 |
| 8H | 9.8 | 10.9 | 10.3 | 11.2 | 11.7 | 9.7 | 10.8 | 10.2 | 11.2 | 11.6 |
| 12H | 9.9 | 10.9 | 10.3 | 11.3 | 11.7 | 9.8 | 10.8 | 10.3 | 11.2 | 11.6 |
| 4H 2H | 8.7 | 9.8 | 9.1 | 10.2 | 10.5 | 8.5 | 9.6 | 8.9 | 10.0 | 10.3 |
| 3H | 9.6 | 10.6 | 10.1 | 11.0 | 11.4 | 9.5 | 10.5 | 9.9 | 10.9 | 11.3 |
| 4H | 10.1 | 11.0 | 10.5 | 11.4 | 11.8 | 9.9 | 10.8 | 10.4 | 11.2 | 11.7 |
| 6H | 10.4 | 11.2 | 10.9 | 11.7 | 12.2 | 10.4 | 11.1 | 10.8 | 11.6 | 12.1 |
| 8H | 10.6 | 11.3 | 11.1 | 11.8 | 12.3 | 10.5 | 11.3 | 11.0 | 11.7 | 12.2 |
| 12H | 10.7 | 11.3 | 11.2 | 11.8 | 12.4 | 10.7 | 11.3 | 11.2 | 11.8 | 12.3 |
| 8H 4H | 10.2 | 10.9 | 10.7 | 11.4 | 11.9 | 10.1 | 10.8 | 10.6 | 11.2 | 11.8 |
| 6H | 10.7 | 11.3 | 11.3 | 11.8 | 12.4 | 10.6 | 11.2 | 11.2 | 11.7 | 12.3 |
| 8H | 11.0 | 11.5 | 11.5 | 12.0 | 12.6 | 10.9 | 11.4 | 11.5 | 12.0 | 12.5 |
| 12H | 11.1 | 11.6 | 11.7 | 12.1 | 12.7 | 11.1 | 11.5 | 11.7 | 12.1 | 12.7 |
| 12H 4H | 10.2 | 10.9 | 10.7 | 11.3 | 11.9 | 10.0 | 10.7 | 10.6 | 11.2 | 11.7 |
| 6H | 10.8 | 11.3 | 11.3 | 11.8 | 12.4 | 10.7 | 11.2 | 11.2 | 11.7 | 12.3 |
| 8H | 11.0 | 11.5 | 11.6 | 12.0 | 12.6 | 11.0 | 11.4 | 11.5 | 12.0 | 12.6 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.5 / - 0.4 | | | | | + 0.5 / - 0.5 | | | | |
| 1.5H | + 0.2 / - 0.4 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.8 / - 0.7 | | | | | + 1.0 / - 0.7 | | | | |

CIE Pub.117, 9680 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.9$)
Area: 0.63 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Mr.Ma
Test Date:2024-10-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

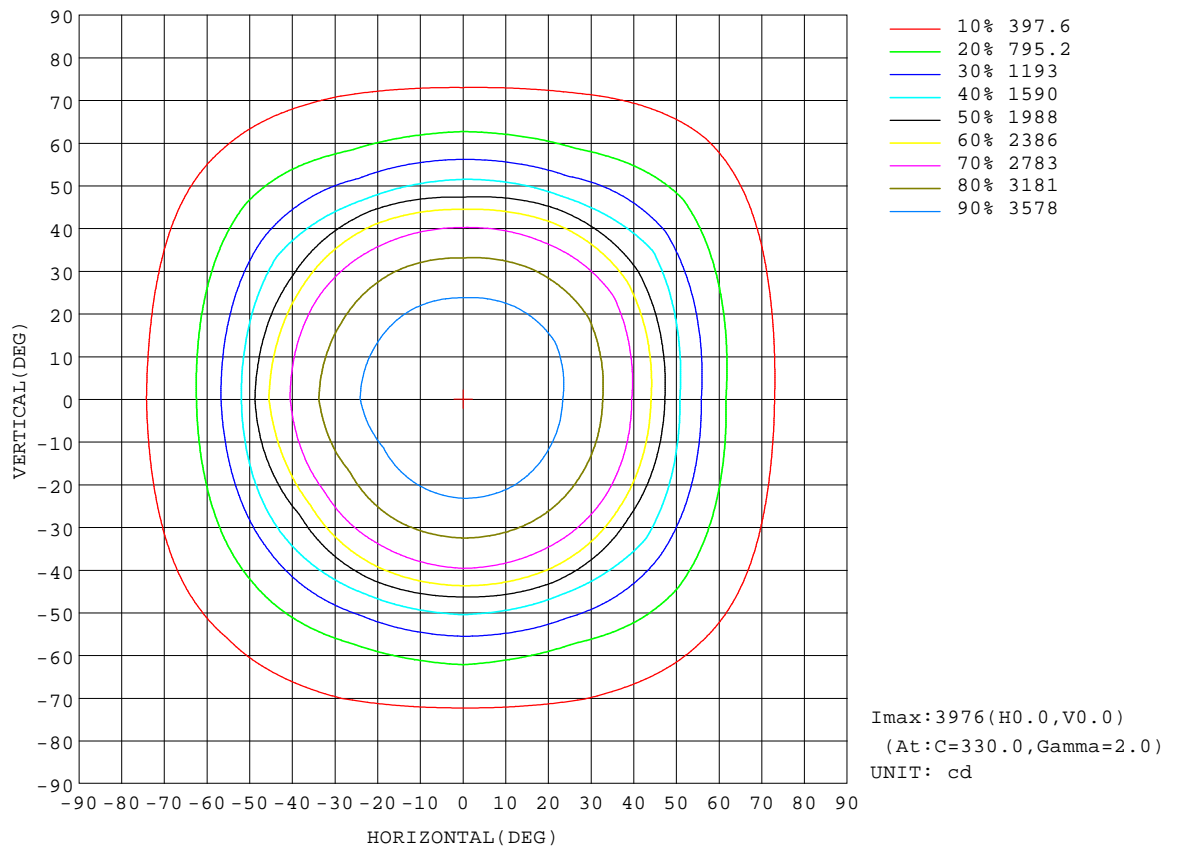
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|--------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 51 | 45 | 60 | 50 | 44 | 59 | 50 | 44 | 38 |
| 0.80 | 71 | 61 | 54 | 70 | 60 | 54 | 68 | 59 | 53 | 47 |
| 1.00 | 79 | 70 | 63 | 78 | 69 | 63 | 75 | 69 | 62 | 55 |
| 1.25 | 86 | 77 | 71 | 84 | 76 | 70 | 81 | 74 | 69 | 61 |
| 1.50 | 91 | 82 | 76 | 89 | 81 | 75 | 85 | 78 | 73 | 66 |
| 2.00 | 97 | 89 | 84 | 94 | 88 | 82 | 90 | 85 | 80 | 72 |
| 2.50 | 100 | 93 | 88 | 98 | 91 | 87 | 93 | 88 | 84 | 75 |
| 3.00 | 103 | 97 | 92 | 100 | 95 | 91 | 95 | 91 | 88 | 78 |
| 4.00 | 106 | 101 | 97 | 104 | 99 | 95 | 98 | 95 | 92 | 81 |
| 5.00 | 108 | 104 | 101 | 105 | 102 | 98 | 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: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



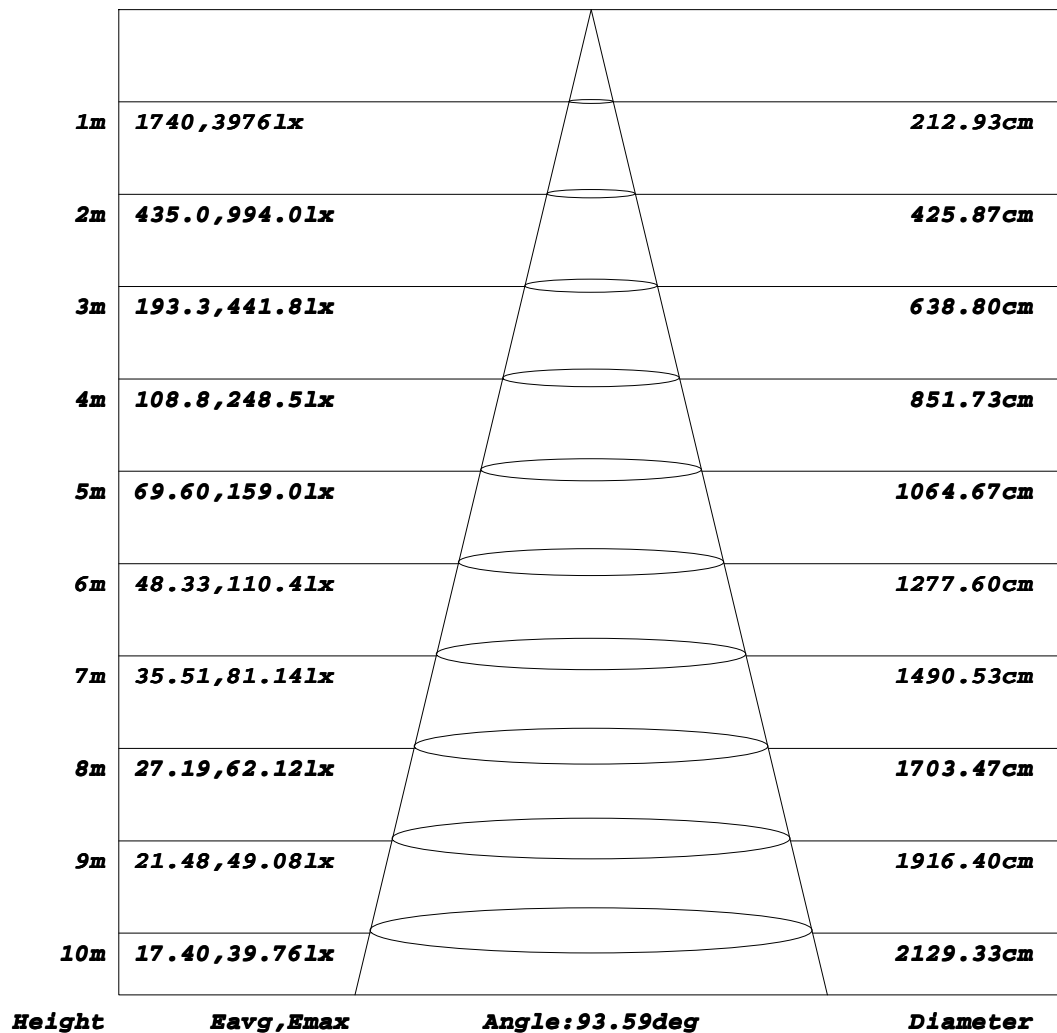
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Mr.Ma
Test Date:2024-10-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

Flux out:6286 lm



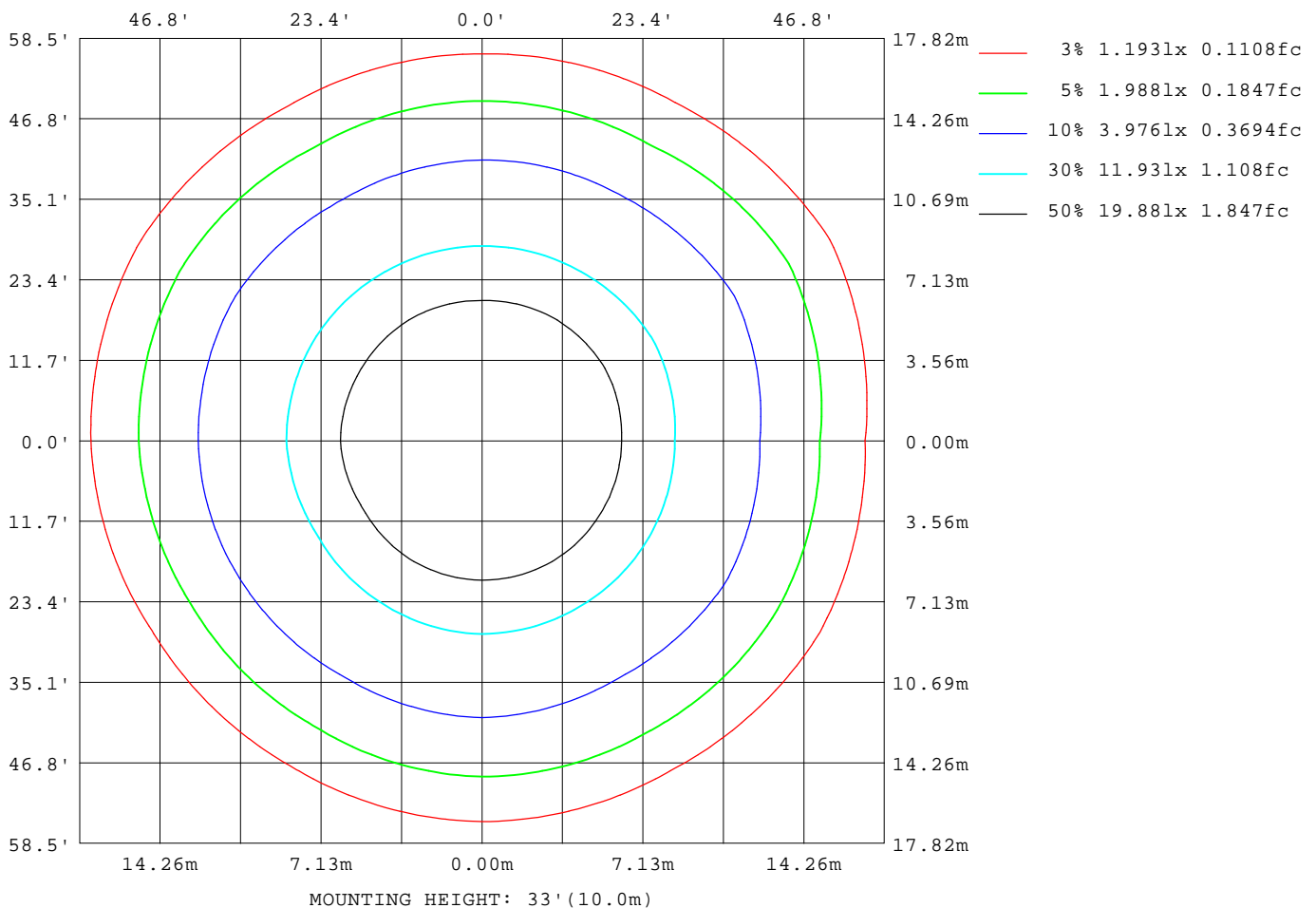
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr. Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|-------|------------------|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | |
| NAME: LED348 (90W 3000K Uplight On) | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

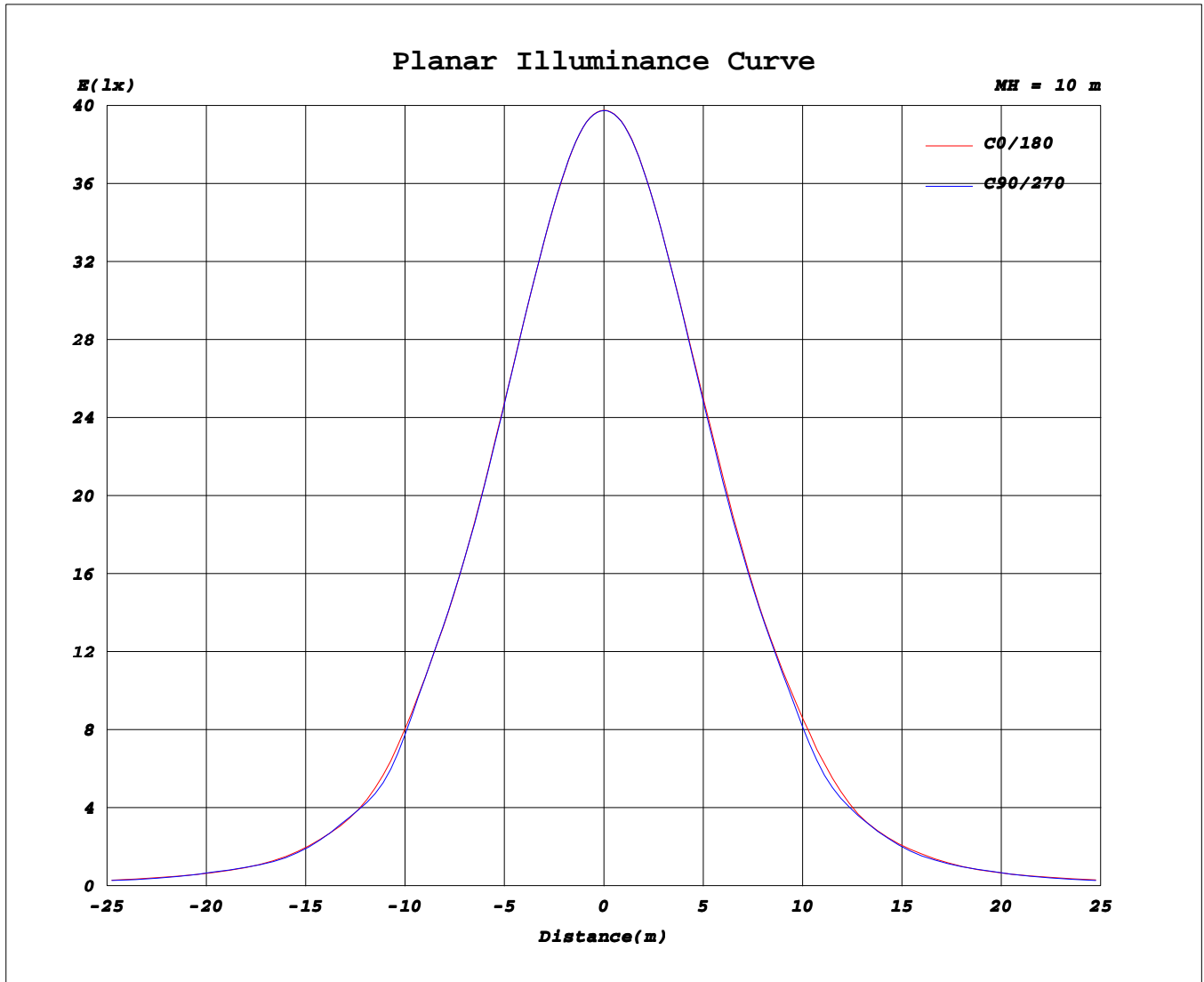
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 2560 |
| L_0~180(75)av | 2157 |
| L_0~180(85)av | 1856 |
| L_90~270(65)av | 2476 |
| L_90~270(75)av | 1946 |
| L_90~270(85)av | 2055 |
| L_45(65)av | 2553 |
| L_45(75)av | 2077 |
| L_45(85)av | 1930 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Mr.Ma
Test Date:2024-10-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|------------------|--|--|
| Test:U:229.26V I:0.3946A P:88.791W PF:0.9815 Freq:50.00Hz Lamp Flux:9679.55x1 lm | | | | | | | | | | | | | | | | | |
| NAME: LED348 (90W 3000K Uplight On) | | | | | | | | | TYPE: | | | | | | WEIGHT: | | |
| SPEC.: | | | | | | | | | DIM.: | | | | | | SERIAL No.: | | |
| MFR.: | | | | | | | | | SUR.: | | | | | | Shielding Angle: | | |

Table--1

UNIT: cd

| <div> <div>C(DEG)</div> <div>γ (DEG)</div> </div> | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | 3974 | | | | | | |
| 5 | 3958 | 3959 | 3960 | 3960 | 3953 | 3947 | 3964 | 3964 | 3964 | 3964 | 3968 | 3972 | | | | | | |
| 10 | 3896 | 3898 | 3899 | 3900 | 3887 | 3875 | 3911 | 3912 | 3911 | 3912 | 3921 | 3933 | | | | | | |
| 15 | 3798 | 3800 | 3803 | 3803 | 3786 | 3769 | 3818 | 3820 | 3819 | 3817 | 3833 | 3849 | | | | | | |
| 20 | 3675 | 3673 | 3678 | 3676 | 3656 | 3634 | 3696 | 3698 | 3697 | 3693 | 3713 | 3735 | | | | | | |
| 25 | 3518 | 3512 | 3518 | 3516 | 3496 | 3462 | 3550 | 3540 | 3545 | 3533 | 3569 | 3587 | | | | | | |
| 30 | 3313 | 3299 | 3315 | 3304 | 3285 | 3240 | 3366 | 3338 | 3355 | 3327 | 3384 | 3395 | | | | | | |
| 35 | 3051 | 3052 | 3051 | 3053 | 3016 | 2986 | 3113 | 3097 | 3104 | 3084 | 3132 | 3163 | | | | | | |
| 40 | 2753 | 2753 | 2733 | 2757 | 2695 | 2664 | 2814 | 2822 | 2795 | 2797 | 2829 | 2898 | | | | | | |
| 45 | 2280 | 2185 | 2254 | 2193 | 2182 | 2066 | 2434 | 2359 | 2386 | 2306 | 2437 | 2505 | | | | | | |
| 50 | 1670 | 1699 | 1597 | 1614 | 1580 | 1652 | 1824 | 1779 | 1726 | 1696 | 1794 | 1898 | | | | | | |
| 55 | 1262 | 1323 | 1207 | 1247 | 1163 | 1211 | 1320 | 1402 | 1229 | 1300 | 1268 | 1520 | | | | | | |
| 60 | 878 | 930 | 848 | 866 | 834 | 867 | 953 | 996 | 912 | 914 | 938 | 1061 | | | | | | |
| 65 | 669 | 649 | 640 | 647 | 653 | 622 | 694 | 727 | 669 | 671 | 684 | 785 | | | | | | |
| 70 | 489 | 519 | 483 | 515 | 470 | 470 | 529 | 530 | 507 | 516 | 519 | 553 | | | | | | |
| 75 | 334 | 331 | 336 | 308 | 306 | 310 | 370 | 324 | 353 | 326 | 366 | 379 | | | | | | |
| 80 | 203 | 219 | 205 | 217 | 196 | 196 | 226 | 236 | 232 | 238 | 241 | 287 | | | | | | |
| 85 | 86.8 | 94.5 | 90.9 | 103 | 79.1 | 68.5 | 117 | 125 | 113 | 122 | 121 | 157 | | | | | | |
| 90 | 1.84 | 1.81 | 1.80 | 1.78 | 1.94 | 2.38 | 5.17 | 5.94 | 4.51 | 2.70 | 9.96 | 25.1 | | | | | | |
| 95 | 11.3 | 11.2 | 10.6 | 10.2 | 12.1 | 14.2 | 7.86 | 7.63 | 7.59 | 8.29 | 6.76 | 5.32 | | | | | | |
| 100 | 27.8 | 27.7 | 27.5 | 26.7 | 28.6 | 31.0 | 23.4 | 23.6 | 23.9 | 24.3 | 22.1 | 20.0 | | | | | | |
| 105 | 46.7 | 46.6 | 46.1 | 45.5 | 47.7 | 50.3 | 41.9 | 42.0 | 41.9 | 42.9 | 40.2 | 37.7 | | | | | | |
| 110 | 63.7 | 64.7 | 63.3 | 63.0 | 64.4 | 67.5 | 59.5 | 60.0 | 59.8 | 60.6 | 58.4 | 55.8 | | | | | | |
| 115 | 79.7 | 80.6 | 79.3 | 79.5 | 79.8 | 83.8 | 76.6 | 75.7 | 76.7 | 76.4 | 75.1 | 71.3 | | | | | | |
| 120 | 94.8 | 96.9 | 94.3 | 95.2 | 95.0 | 99.6 | 91.9 | 91.1 | 92.3 | 91.7 | 90.5 | 87.1 | | | | | | |
| 125 | 109 | 111 | 109 | 110 | 109 | 114 | 106 | 105 | 107 | 106 | 105 | 102 | | | | | | |
| 130 | 124 | 125 | 124 | 124 | 124 | 127 | 120 | 119 | 120 | 121 | 118 | 115 | | | | | | |
| 135 | 136 | 137 | 136 | 136 | 136 | 139 | 132 | 133 | 132 | 134 | 130 | 129 | | | | | | |
| 140 | 146 | 147 | 146 | 146 | 146 | 149 | 142 | 144 | 142 | 144 | 141 | 141 | | | | | | |
| 145 | 157 | 158 | 158 | 157 | 158 | 161 | 153 | 154 | 153 | 155 | 152 | 151 | | | | | | |
| 150 | 182 | 182 | 182 | 181 | 183 | 185 | 178 | 177 | 176 | 177 | 174 | 171 | | | | | | |
| 155 | 199 | 200 | 199 | 199 | 200 | 202 | 196 | 197 | 196 | 197 | 194 | 192 | | | | | | |
| 160 | 213 | 214 | 214 | 213 | 214 | 215 | 211 | 212 | 211 | 212 | 209 | 207 | | | | | | |
| 165 | 225 | 225 | 225 | 224 | 226 | 225 | 223 | 223 | 223 | 223 | 221 | 219 | | | | | | |
| 170 | 234 | 233 | 234 | 232 | 234 | 232 | 233 | 232 | 232 | 231 | 231 | 228 | | | | | | |
| 175 | 240 | 239 | 241 | 239 | 240 | 238 | 239 | 238 | 239 | 238 | 238 | 236 | | | | | | |
| 180 | 244 | 243 | 244 | 242 | 243 | 241 | 244 | 243 | 244 | 242 | 243 | 241 | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
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