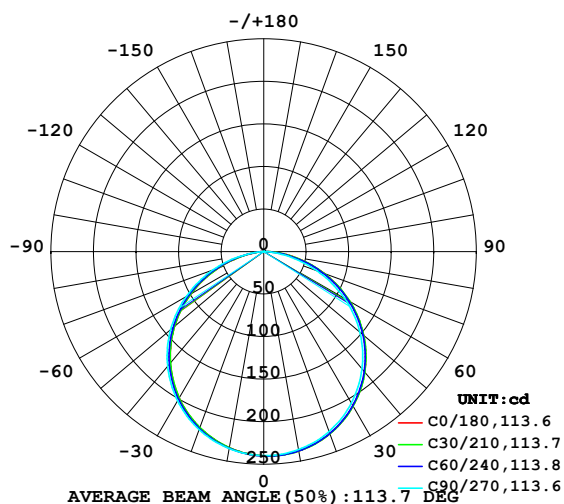


LUMINAIRE PHOTOMETRIC TEST REPORT

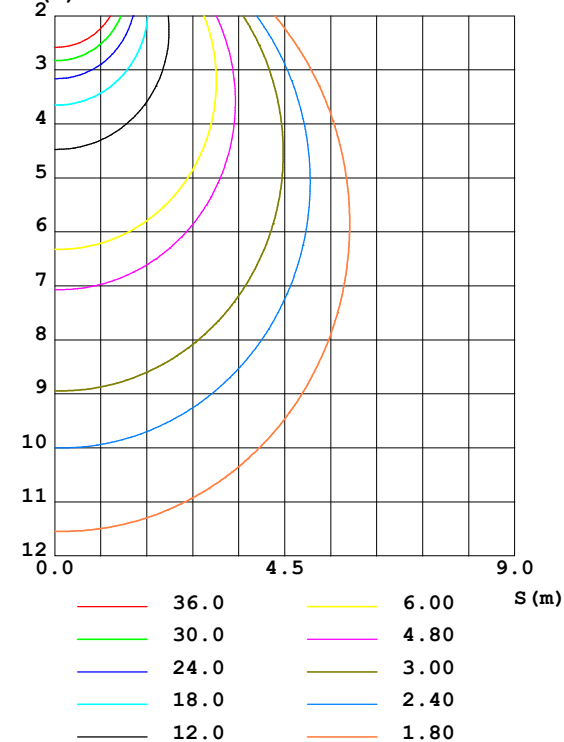
| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 54.31 lm/W |
|------------------|------------------|------------------|--------|------------------------|----------|-----------------|
| MODEL | V120-12-2765RL-D | Imax(cd) | 241.0 | S/MH(C0/180) | 1.24 | |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 1.26 | |
| RATED VOLTAGE(V) | 12 | TOTAL FLUX(lm) | 692.80 | η UP,DN(C0-180) | 0.1,50.6 | |
| NOMINAL FLUX(lm) | 692.796 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.1,49.2 | |
| LAMPS INSIDE | 1 | η up(%) | 0.2 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE(V) | 12 | η down(%) | 99.8 | CIBSE SHR MAX | 1.35 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:SENPU
Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

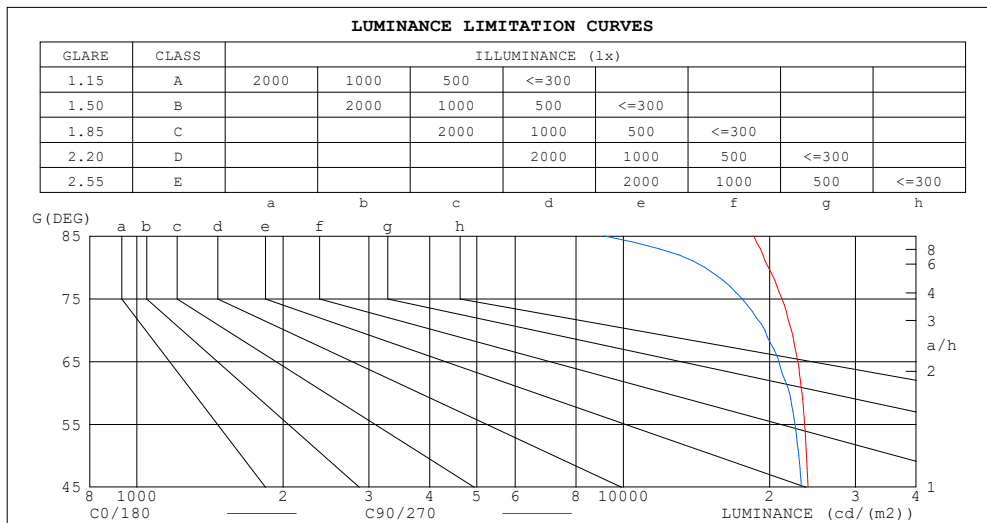
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10 | 237.9 | 238.8 | 236.3 | 233.9 | 234.0 | 234.8 | 235.1 | 236.2 | 0- 10 | 22.71 | 22.71 | 3.28,3.28 |
| 20 | 227.6 | 228.7 | 225.0 | 220.7 | 220.1 | 220.5 | 222.6 | 225.5 | 10- 20 | 65.15 | 87.87 | 12.7,12.7 |
| 30 | 209.6 | 210.9 | 205.9 | 200.1 | 198.8 | 199.5 | 202.7 | 207.1 | 20- 30 | 99.06 | 186.9 | 27,27 |
| 40 | 184.5 | 185.8 | 179.9 | 172.5 | 170.8 | 171.1 | 175.8 | 181.5 | 30- 40 | 120.0 | 306.9 | 44.3,44.3 |
| 50 | 153.1 | 154.3 | 147.5 | 138.9 | 137.0 | 137.3 | 143.1 | 149.4 | 40- 50 | 125.0 | 431.9 | 62.3,62.3 |
| 60 | 116.6 | 117.4 | 109.9 | 100.5 | 98.30 | 98.84 | 105.0 | 112.8 | 50- 60 | 113.2 | 545.1 | 78.7,78.7 |
| 70 | 75.83 | 76.35 | 66.82 | 58.92 | 56.80 | 57.26 | 63.75 | 71.74 | 60- 70 | 85.86 | 630.9 | 91.1,91.1 |
| 80 | 34.51 | 34.46 | 25.54 | 20.51 | 17.90 | 18.86 | 22.06 | 31.20 | 70- 80 | 47.97 | 678.9 | 98,98 |
| 90 | 3.355 | 3.431 | 0.1529 | 0.5490 | 0.1952 | 0.3278 | 0.0797 | 3.041 | 80- 90 | 12.21 | 691.1 | 99.8,99.8 |
| 100 | 0.1667 | 0.1523 | 0.1377 | 0.1668 | 0.1596 | 0.1377 | 0.1232 | 0.1233 | 90-100 | 0.4650 | 691.6 | 99.8,99.8 |
| 110 | 0.1667 | 0.1957 | 0.1377 | 0.2248 | 0.2467 | 0.1377 | 0.1595 | 0.1232 | 100-110 | 0.1677 | 691.7 | 99.8,99.8 |
| 120 | 0.2102 | 0.2464 | 0.2030 | 0.2682 | 0.3480 | 0.1810 | 0.1957 | 0.1377 | 110-120 | 0.1900 | 691.9 | 99.9,99.9 |
| 130 | 0.2465 | 0.2682 | 0.2247 | 0.3045 | 0.3625 | 0.2247 | 0.2392 | 0.2030 | 120-130 | 0.2079 | 692.1 | 99.9,99.9 |
| 140 | 0.3261 | 0.3116 | 0.2537 | 0.3263 | 0.3261 | 0.2247 | 0.2610 | 0.2102 | 130-140 | 0.2127 | 692.3 | 99.9,99.9 |
| 150 | 0.3480 | 0.3190 | 0.2610 | 0.3407 | 0.3407 | 0.2609 | 0.2971 | 0.2392 | 140-150 | 0.1833 | 692.5 | 100,100 |
| 160 | 0.3480 | 0.3262 | 0.3117 | 0.3480 | 0.3407 | 0.3262 | 0.3190 | 0.2610 | 150-160 | 0.1448 | 692.7 | 100,100 |
| 170 | 0.2827 | 0.2972 | 0.3045 | 0.2972 | 0.3407 | 0.3335 | 0.3190 | 0.3117 | 160-170 | 0.0917 | 692.8 | 100,100 |
| 180 | 0.3335 | 0.3407 | 0.3045 | 0.3190 | 0.3407 | 0.3190 | 0.2972 | 0.3190 | 170-180 | 0.0301 | 692.8 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:SENPU
 Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 18555 | 9134 |
| 80 | 19875 | 14709 |
| 75 | 21183 | 17558 |
| 70 | 22172 | 19537 |
| 65 | 22850 | 20896 |
| 60 | 23318 | 21977 |
| 55 | 23607 | 22543 |
| 50 | 23822 | 22945 |
| 45 | 23979 | 23252 |

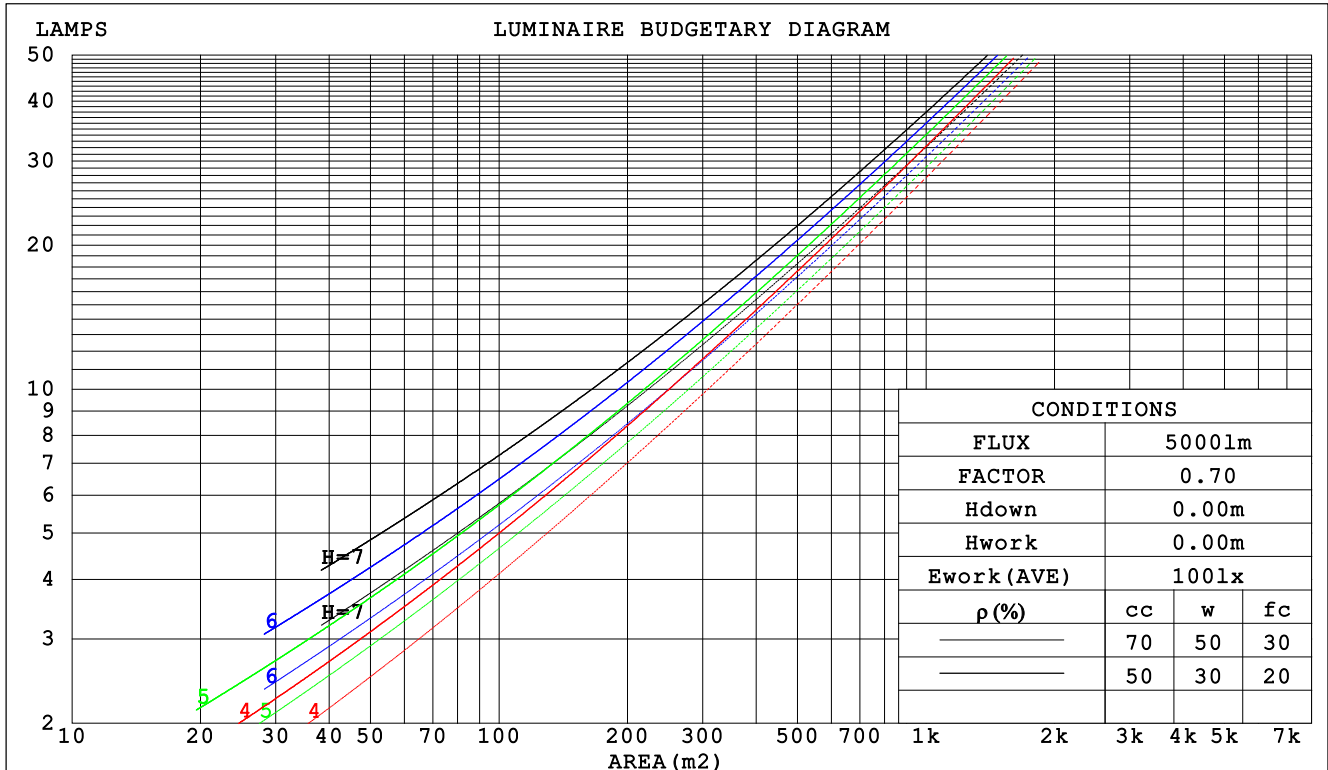
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24DEG
Operators: SENPU
Test Date: 2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| 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 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0 | 1.04 | .00 | .96 | 1.02 | .98 | .94 | .97 | .94 | .91 | .93 | .91 | .88 | .90 | .88 | .86 | .83 |
| 2.0 | .90 | .84 | .78 | .89 | .82 | .77 | .85 | .80 | .75 | .82 | .77 | .73 | .79 | .75 | .72 | .69 |
| 3.0 | .79 | .71 | .65 | .78 | .70 | .64 | .75 | .68 | .63 | .72 | .66 | .62 | .69 | .65 | .61 | .58 |
| 4.0 | .70 | .61 | .55 | .69 | .61 | .54 | .66 | .59 | .53 | .64 | .58 | .53 | .62 | .56 | .52 | .50 |
| 5.0 | .63 | .54 | .47 | .62 | .53 | .47 | .59 | .52 | .46 | .57 | .51 | .46 | .55 | .50 | .45 | .43 |
| 6.0 | .56 | .47 | .41 | .55 | .47 | .41 | .54 | .46 | .40 | .52 | .45 | .40 | .50 | .44 | .40 | .37 |
| 7.0 | .51 | .42 | .36 | .50 | .42 | .36 | .49 | .41 | .36 | .47 | .40 | .35 | .46 | .40 | .35 | .33 |
| 8.0 | .47 | .38 | .32 | .46 | .38 | .32 | .44 | .37 | .32 | .43 | .36 | .32 | .42 | .36 | .31 | .29 |
| 9.0 | .43 | .34 | .29 | .42 | .34 | .29 | .41 | .34 | .29 | .40 | .33 | .28 | .39 | .33 | .28 | .26 |
| 10.0 | .39 | .31 | .26 | .39 | .31 | .26 | .38 | .31 | .26 | .37 | .30 | .26 | .36 | .30 | .26 | .24 |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: SENPU
 Test Date: 2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | 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 | .309 | .176 | .056 | .302 | .172 | .055 | .288 | .165 | .053 | .276 | .159 | .051 | .265 | .153 | .049 | | |
| 2.0 | .291 | .160 | .049 | .285 | .157 | .048 | .273 | .152 | .047 | .262 | .147 | .046 | .252 | .143 | .045 | | |
| 3.0 | .270 | .144 | .043 | .264 | .142 | .043 | .254 | .138 | .042 | .244 | .134 | .041 | .235 | .130 | .040 | | |
| 4.0 | .249 | .130 | .038 | .244 | .128 | .038 | .235 | .125 | .037 | .226 | .122 | .037 | .218 | .119 | .036 | | |
| 5.0 | .231 | .117 | .034 | .226 | .116 | .034 | .218 | .113 | .033 | .210 | .111 | .033 | .203 | .108 | .033 | | |
| 6.0 | .214 | .107 | .031 | .210 | .106 | .031 | .203 | .104 | .030 | .196 | .102 | .030 | .189 | .100 | .030 | | |
| 7.0 | .199 | .098 | .028 | .196 | .097 | .028 | .189 | .096 | .028 | .183 | .094 | .027 | .177 | .092 | .027 | | |
| 8.0 | .186 | .091 | .026 | .183 | .090 | .025 | .177 | .088 | .025 | .171 | .087 | .025 | .166 | .085 | .025 | | |
| 9.0 | .174 | .084 | .024 | .171 | .084 | .023 | .166 | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 | | |
| 10.0 | .164 | .079 | .022 | .161 | .078 | .022 | .157 | .077 | .022 | .152 | .075 | .021 | .148 | .074 | .021 | | |

| 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 | .192 | .192 | .192 | .164 | .164 | .164 | .112 | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 | |
| 1.0 | .182 | .158 | .136 | .156 | .136 | .117 | .107 | .093 | .081 | .061 | .054 | .047 | .020 | .017 | .015 | |
| 2.0 | .174 | .134 | .100 | .149 | .115 | .086 | .102 | .080 | .060 | .059 | .046 | .035 | .019 | .015 | .012 | |
| 3.0 | .166 | .116 | .076 | .143 | .100 | .066 | .098 | .070 | .046 | .057 | .041 | .027 | .018 | .013 | .009 | |
| 4.0 | .159 | .103 | .060 | .136 | .089 | .052 | .094 | .062 | .037 | .054 | .036 | .022 | .017 | .012 | .007 | |
| 5.0 | .151 | .093 | .049 | .130 | .080 | .043 | .090 | .056 | .030 | .052 | .033 | .018 | .017 | .011 | .006 | |
| 6.0 | .144 | .084 | .041 | .124 | .073 | .036 | .086 | .051 | .025 | .050 | .030 | .015 | .016 | .010 | .005 | |
| 7.0 | .137 | .077 | .035 | .118 | .067 | .031 | .082 | .047 | .022 | .047 | .028 | .013 | .015 | .009 | .004 | |
| 8.0 | .131 | .071 | .031 | .113 | .062 | .027 | .078 | .044 | .019 | .045 | .026 | .011 | .015 | .008 | .004 | |
| 9.0 | .125 | .067 | .027 | .108 | .058 | .024 | .075 | .041 | .017 | .043 | .024 | .010 | .014 | .008 | .003 | |
| 10.0 | .119 | .062 | .024 | .103 | .054 | .021 | .071 | .038 | .015 | .042 | .022 | .009 | .013 | .007 | .003 | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:SENPU
 Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|-------|----------------|------|-----------------------|------|------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | | | | | | | | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.:2022030101 | | |
| 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 | 24.2 | 25.7 | 24.4 | 25.9 | 26.1 | 24.0 | 25.5 | 24.2 | 25.7 | 25.9 |
| 3H | 25.8 | 27.2 | 26.1 | 27.5 | 27.7 | 25.5 | 26.9 | 25.8 | 27.1 | 27.4 |
| 4H | 26.5 | 27.9 | 26.8 | 28.1 | 28.4 | 26.0 | 27.4 | 26.4 | 27.6 | 27.9 |
| 6H | 27.1 | 28.3 | 27.4 | 28.6 | 28.9 | 26.4 | 27.7 | 26.8 | 27.9 | 28.2 |
| 8H | 27.2 | 28.5 | 27.6 | 28.7 | 29.0 | 26.5 | 27.7 | 26.9 | 28.0 | 28.3 |
| 12H | 27.4 | 28.5 | 27.7 | 28.8 | 29.1 | 26.5 | 27.7 | 26.9 | 28.0 | 28.3 |
| | | | | | | | | | | |
| 4H 2H | 24.8 | 26.2 | 25.1 | 26.4 | 26.7 | 24.7 | 26.0 | 25.0 | 26.3 | 26.5 |
| 3H | 26.7 | 27.8 | 27.0 | 28.1 | 28.5 | 26.4 | 27.5 | 26.7 | 27.8 | 28.2 |
| 4H | 27.5 | 28.6 | 27.9 | 28.9 | 29.2 | 27.1 | 28.1 | 27.5 | 28.5 | 28.8 |
| 6H | 28.2 | 29.1 | 28.6 | 29.5 | 29.8 | 27.6 | 28.5 | 28.0 | 28.9 | 29.3 |
| 8H | 28.4 | 29.3 | 28.8 | 29.7 | 30.1 | 27.7 | 28.6 | 28.2 | 29.0 | 29.4 |
| 12H | 28.6 | 29.4 | 29.0 | 29.8 | 30.2 | 27.8 | 28.6 | 28.2 | 29.0 | 29.4 |
| | | | | | | | | | | |
| 8H 4H | 27.8 | 28.7 | 28.2 | 29.0 | 29.4 | 27.4 | 28.3 | 27.8 | 28.7 | 29.1 |
| 6H | 28.6 | 29.4 | 29.1 | 29.8 | 30.2 | 28.1 | 28.8 | 28.5 | 29.2 | 29.7 |
| 8H | 29.0 | 29.6 | 29.4 | 30.1 | 30.5 | 28.3 | 29.0 | 28.8 | 29.4 | 29.9 |
| 12H | 29.3 | 29.8 | 29.7 | 30.3 | 30.8 | 28.5 | 29.0 | 29.0 | 29.5 | 30.0 |
| | | | | | | | | | | |
| 12H 4H | 27.8 | 28.6 | 28.2 | 29.0 | 29.4 | 27.5 | 28.3 | 27.9 | 28.7 | 29.1 |
| 6H | 28.7 | 29.3 | 29.2 | 29.8 | 30.2 | 28.2 | 28.8 | 28.7 | 29.3 | 29.7 |
| 8H | 29.1 | 29.7 | 29.6 | 30.1 | 30.6 | 28.5 | 29.0 | 29.0 | 29.5 | 30.0 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.1 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | |
| 1.5H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | + 0.2 / - 0.4 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117, 692.8 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.3$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:SENPU
 Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |

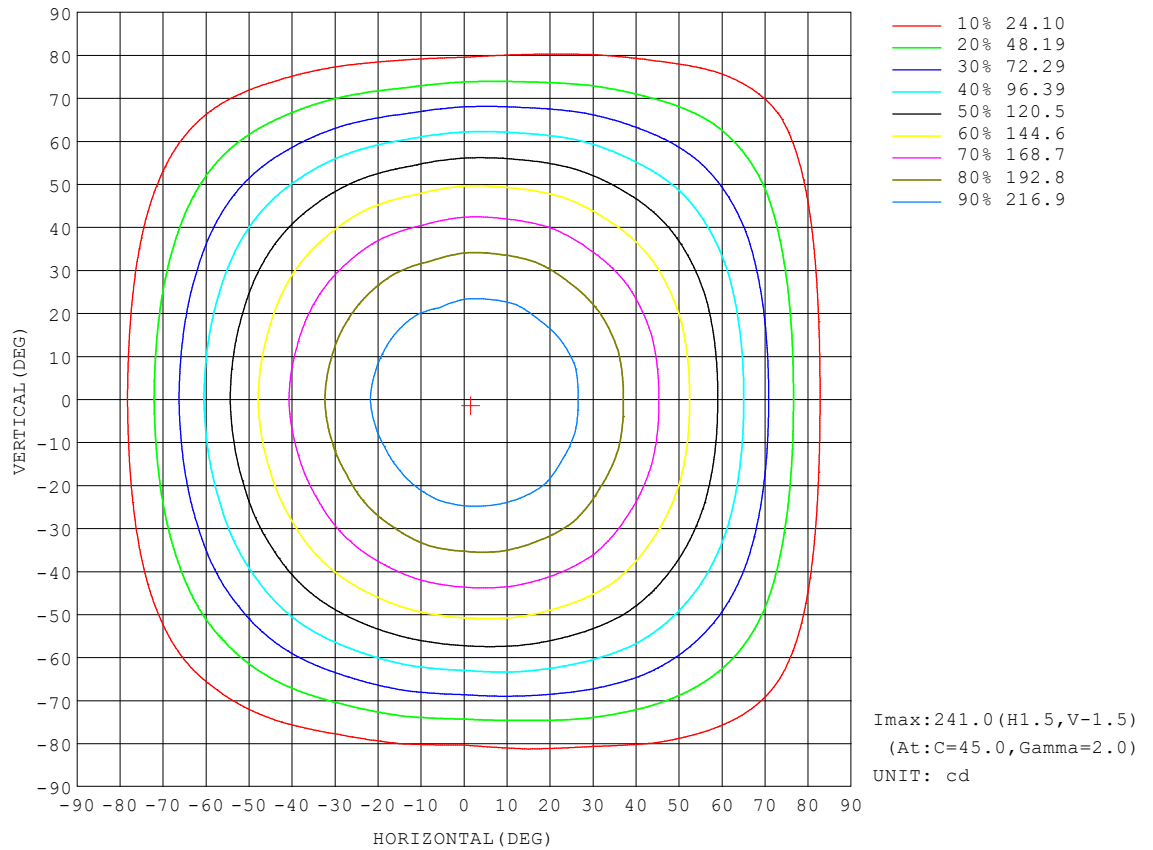
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 57 | 46 | 39 | 57 | 45 | 39 | 55 | 45 | 38 | 32 |
| 0.80 | 67 | 56 | 48 | 66 | 55 | 48 | 65 | 54 | 48 | 41 |
| 1.00 | 76 | 65 | 57 | 75 | 64 | 57 | 72 | 65 | 57 | 49 |
| 1.25 | 83 | 72 | 65 | 81 | 72 | 65 | 79 | 70 | 64 | 57 |
| 1.50 | 88 | 78 | 71 | 86 | 77 | 71 | 83 | 75 | 69 | 62 |
| 2.00 | 95 | 86 | 80 | 93 | 85 | 79 | 89 | 83 | 78 | 70 |
| 2.50 | 99 | 91 | 85 | 97 | 90 | 84 | 93 | 87 | 82 | 74 |
| 3.00 | 102 | 95 | 90 | 100 | 94 | 89 | 96 | 91 | 86 | 78 |
| 4.00 | 106 | 100 | 96 | 104 | 99 | 94 | 100 | 95 | 92 | 83 |
| 5.00 | 109 | 104 | 100 | 106 | 102 | 98 | 102 | 98 | 95 | 86 |
| 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: 24DEG
 Operators: SENPU
 Test Date: 2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |

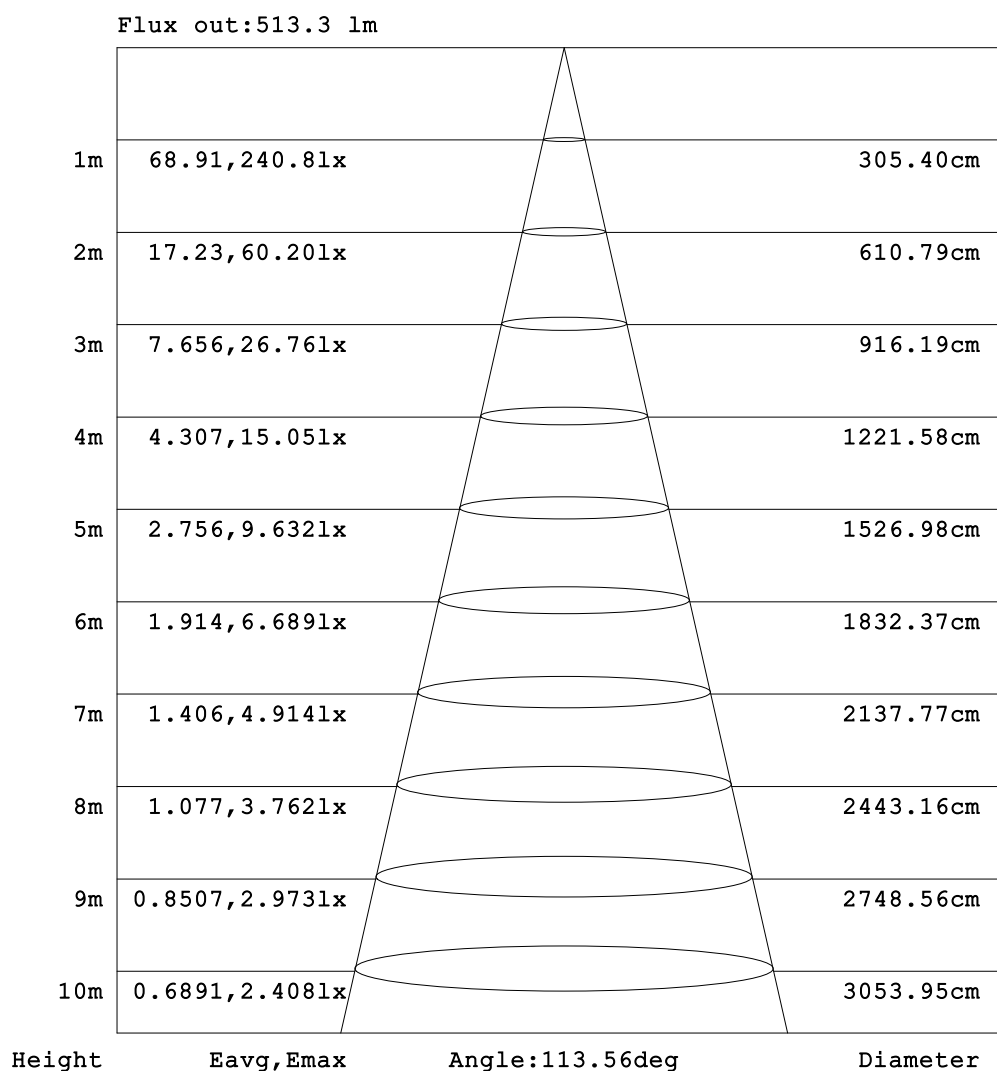


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:SENPU
Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |



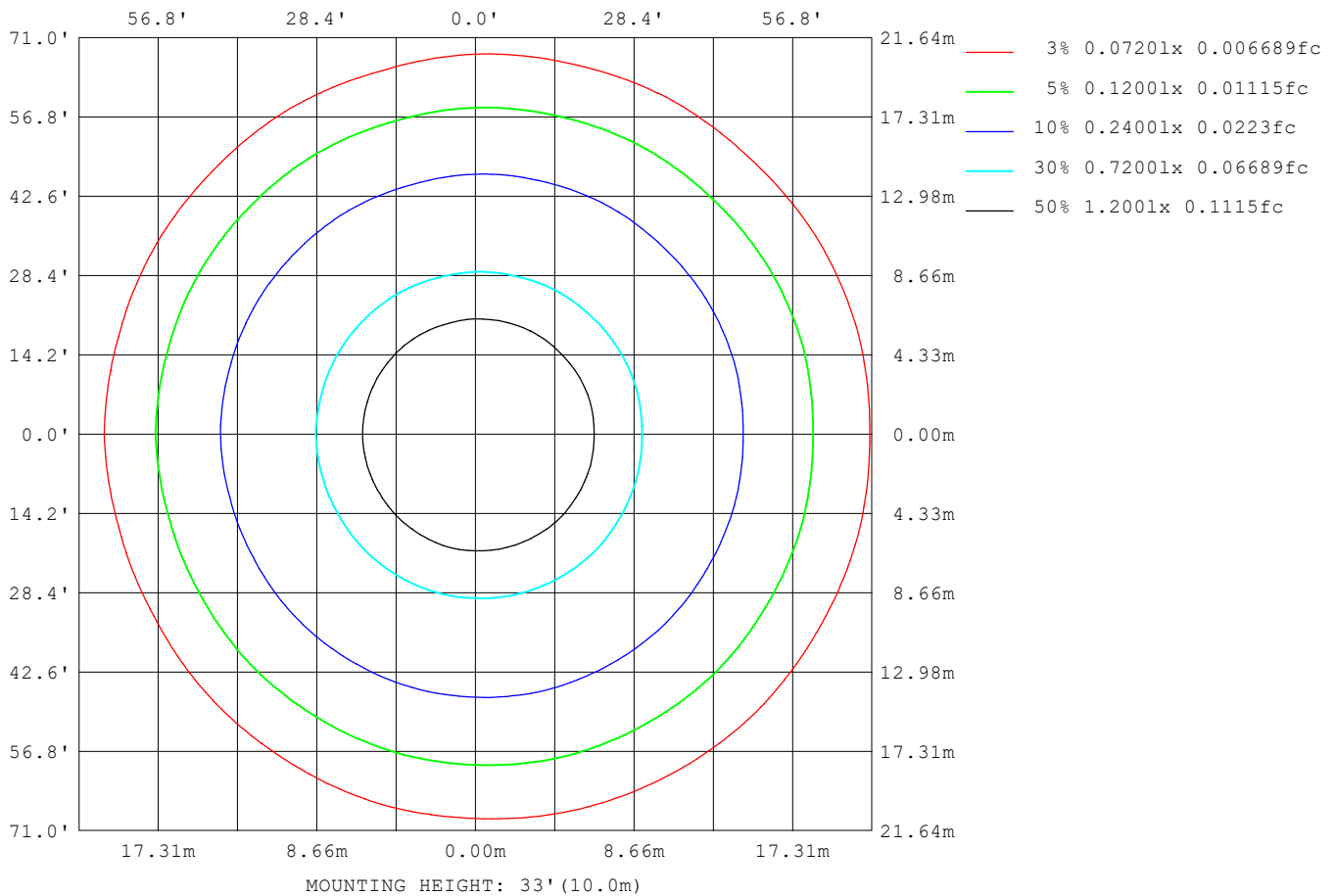
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:SENPU
 Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: SENPU
 Test Date: 2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |

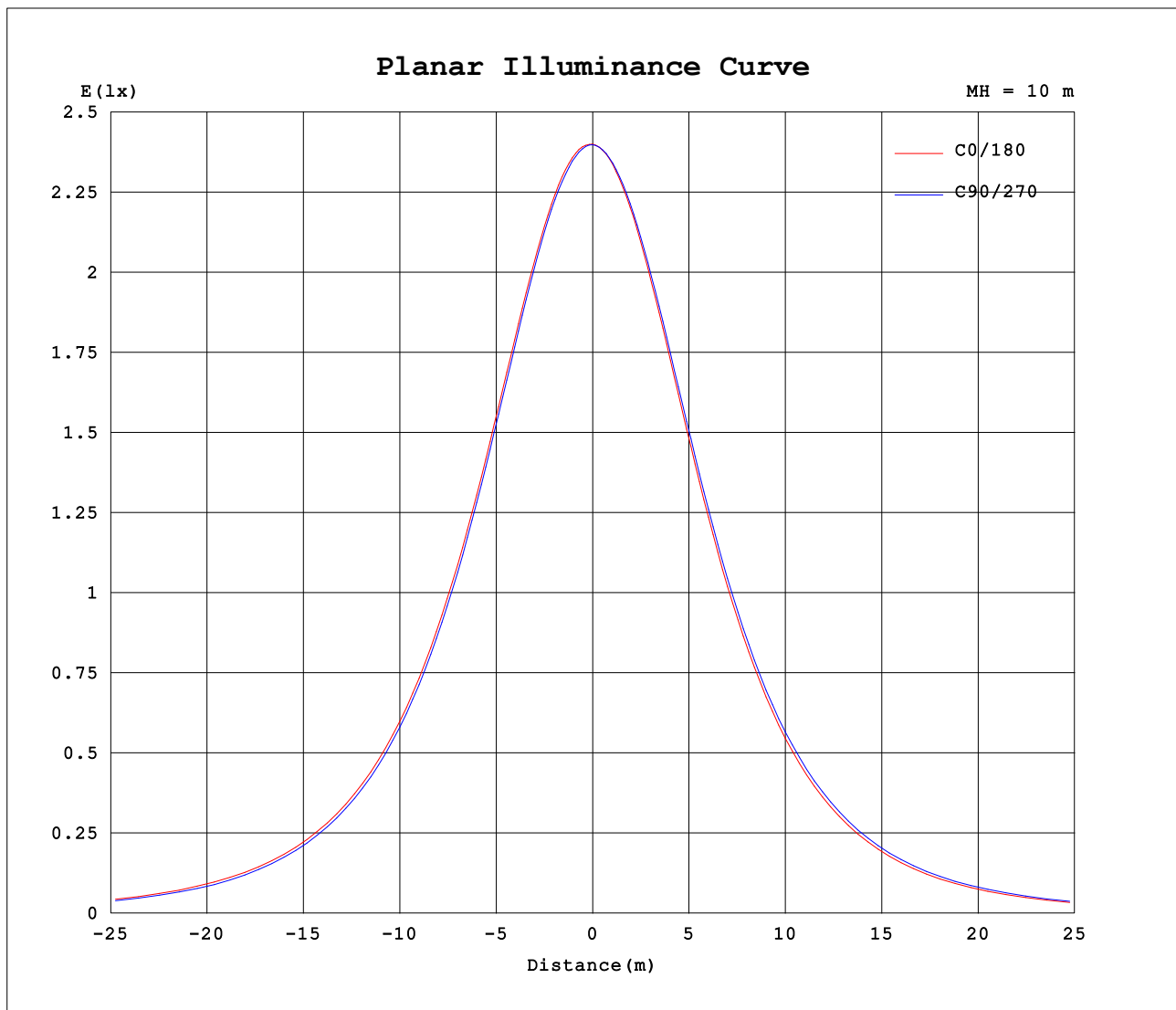
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 20618 |
| L_0~180 (75) av | 17617 |
| L_0~180 (85) av | 11607 |
| L_90~270 (65) av | 20459 |
| L_90~270 (75) av | 17107 |
| L_90~270 (85) av | 7421 |
| L_45 (65) av | 20547 |
| L_45 (75) av | 17462 |
| L_45 (85) av | 11898 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:SENPU
Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24DEG
Operators: SENPU
Test Date: 2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | 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 | 240 | 240 | 240 | 241 | 240 | 239 | 240 | 240 | 240 | 239 | 240 | 241 | 240 | 240 | 240 | 241 | 240 | 239 | 240 |
| 5 | 240 | 241 | 240 | 241 | 240 | 239 | 239 | 239 | 238 | 237 | 237 | 238 | 238 | 238 | 238 | 239 | 238 | 238 | 238 |
| 10 | 238 | 239 | 238 | 239 | 238 | 237 | 236 | 236 | 235 | 234 | 233 | 234 | 234 | 234 | 234 | 235 | 235 | 234 | 235 |
| 15 | 234 | 235 | 234 | 235 | 234 | 232 | 232 | 231 | 230 | 228 | 227 | 228 | 228 | 228 | 228 | 229 | 229 | 228 | 230 |
| 20 | 228 | 228 | 228 | 229 | 227 | 226 | 225 | 224 | 222 | 221 | 219 | 220 | 220 | 220 | 220 | 220 | 221 | 220 | 223 |
| 25 | 220 | 220 | 220 | 220 | 219 | 218 | 216 | 215 | 213 | 211 | 210 | 210 | 210 | 210 | 210 | 211 | 212 | 211 | 214 |
| 30 | 210 | 211 | 210 | 211 | 209 | 208 | 206 | 205 | 202 | 200 | 198 | 198 | 199 | 198 | 199 | 199 | 200 | 200 | 203 |
| 35 | 198 | 199 | 198 | 199 | 197 | 196 | 194 | 192 | 189 | 187 | 185 | 185 | 186 | 185 | 185 | 186 | 187 | 187 | 190 |
| 40 | 185 | 186 | 185 | 186 | 184 | 182 | 180 | 178 | 175 | 172 | 170 | 170 | 171 | 170 | 171 | 171 | 173 | 173 | 176 |
| 45 | 170 | 171 | 170 | 171 | 169 | 167 | 164 | 162 | 159 | 156 | 154 | 153 | 154 | 154 | 155 | 155 | 157 | 157 | 160 |
| 50 | 153 | 154 | 154 | 154 | 152 | 150 | 147 | 145 | 141 | 139 | 136 | 135 | 137 | 136 | 137 | 137 | 139 | 139 | 143 |
| 55 | 135 | 137 | 136 | 136 | 134 | 132 | 129 | 126 | 123 | 120 | 117 | 116 | 118 | 117 | 118 | 119 | 121 | 121 | 125 |
| 60 | 117 | 118 | 117 | 117 | 115 | 113 | 110 | 107 | 103 | 100 | 97.1 | 96.2 | 98.3 | 97.5 | 98.4 | 98.8 | 101 | 102 | 105 |
| 65 | 96.6 | 97.8 | 96.9 | 97.2 | 94.9 | 92.1 | 88.3 | 86.4 | 82.4 | 79.9 | 76.5 | 75.7 | 77.7 | 76.7 | 77.8 | 78.1 | 80.4 | 80.7 | 84.6 |
| 70 | 75.8 | 77.0 | 76.2 | 76.3 | 74.0 | 70.4 | 66.8 | 65.5 | 61.3 | 58.9 | 55.6 | 54.9 | 56.8 | 55.9 | 57.0 | 57.3 | 59.4 | 60.4 | 63.7 |
| 75 | 54.8 | 56.0 | 55.2 | 54.4 | 53.1 | 48.7 | 45.4 | 44.8 | 40.8 | 38.6 | 35.5 | 34.8 | 36.4 | 35.8 | 36.8 | 37.1 | 39.1 | 39.7 | 43.1 |
| 80 | 34.5 | 35.7 | 35.0 | 34.5 | 31.0 | 30.0 | 25.5 | 25.6 | 22.1 | 20.5 | 17.8 | 17.4 | 17.9 | 17.4 | 18.5 | 18.9 | 20.6 | 21.1 | 22.1 |
| 85 | 16.2 | 17.4 | 17.0 | 16.5 | 13.7 | 11.4 | 7.96 | 8.59 | 6.65 | 6.17 | 5.46 | 5.57 | 4.06 | 3.92 | 4.57 | 4.64 | 5.53 | 5.76 | 4.97 |
| 90 | 3.35 | 4.02 | 3.91 | 3.43 | 2.10 | 1.07 | 0.15 | 0.60 | 0.56 | 0.55 | 0.49 | 0.43 | 0.20 | 0.28 | 0.30 | 0.33 | 0.30 | 0.19 | 0.08 |
| 95 | 0.22 | 0.19 | 0.31 | 0.15 | 0.16 | 0.14 | 0.14 | 0.15 | 0.17 | 0.16 | 0.21 | 0.17 | 0.15 | 0.17 | 0.14 | 0.15 | 0.14 | 0.12 | 0.10 |
| 100 | 0.17 | 0.15 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.17 | 0.15 | 0.17 | 0.17 | 0.19 | 0.16 | 0.13 | 0.15 | 0.14 | 0.16 | 0.11 | 0.12 |
| 105 | 0.17 | 0.18 | 0.16 | 0.17 | 0.15 | 0.17 | 0.14 | 0.18 | 0.15 | 0.20 | 0.17 | 0.20 | 0.20 | 0.13 | 0.19 | 0.14 | 0.17 | 0.11 | 0.14 |
| 110 | 0.17 | 0.19 | 0.16 | 0.20 | 0.15 | 0.20 | 0.14 | 0.21 | 0.16 | 0.22 | 0.17 | 0.21 | 0.25 | 0.13 | 0.20 | 0.14 | 0.18 | 0.11 | 0.16 |
| 115 | 0.19 | 0.22 | 0.17 | 0.22 | 0.16 | 0.21 | 0.18 | 0.24 | 0.20 | 0.25 | 0.21 | 0.24 | 0.31 | 0.19 | 0.22 | 0.14 | 0.20 | 0.12 | 0.16 |
| 120 | 0.21 | 0.25 | 0.22 | 0.25 | 0.20 | 0.24 | 0.20 | 0.26 | 0.23 | 0.27 | 0.23 | 0.27 | 0.35 | 0.21 | 0.24 | 0.18 | 0.21 | 0.13 | 0.20 |
| 125 | 0.21 | 0.27 | 0.22 | 0.27 | 0.21 | 0.25 | 0.22 | 0.28 | 0.23 | 0.28 | 0.23 | 0.29 | 0.36 | 0.21 | 0.26 | 0.21 | 0.23 | 0.14 | 0.22 |
| 130 | 0.25 | 0.30 | 0.22 | 0.27 | 0.21 | 0.27 | 0.22 | 0.28 | 0.25 | 0.30 | 0.25 | 0.30 | 0.36 | 0.22 | 0.29 | 0.22 | 0.25 | 0.22 | 0.24 |
| 135 | 0.28 | 0.31 | 0.25 | 0.28 | 0.23 | 0.28 | 0.25 | 0.30 | 0.31 | 0.33 | 0.25 | 0.32 | 0.33 | 0.39 | 0.30 | 0.22 | 0.27 | 0.22 | 0.25 |
| 140 | 0.33 | 0.35 | 0.29 | 0.31 | 0.24 | 0.30 | 0.25 | 0.31 | 0.32 | 0.33 | 0.27 | 0.34 | 0.33 | 0.33 | 0.30 | 0.22 | 0.28 | 0.23 | 0.26 |
| 145 | 0.35 | 0.35 | 0.34 | 0.31 | 0.29 | 0.30 | 0.25 | 0.33 | 0.32 | 0.33 | 0.30 | 0.33 | 0.33 | 0.32 | 0.32 | 0.22 | 0.28 | 0.23 | 0.28 |
| 150 | 0.35 | 0.34 | 0.34 | 0.32 | 0.32 | 0.31 | 0.26 | 0.33 | 0.32 | 0.34 | 0.31 | 0.33 | 0.34 | 0.32 | 0.33 | 0.26 | 0.28 | 0.23 | 0.30 |
| 155 | 0.35 | 0.33 | 0.34 | 0.32 | 0.31 | 0.33 | 0.30 | 0.34 | 0.32 | 0.35 | 0.33 | 0.33 | 0.34 | 0.35 | 0.34 | 0.33 | 0.31 | 0.25 | 0.30 |
| 160 | 0.35 | 0.33 | 0.34 | 0.33 | 0.31 | 0.33 | 0.31 | 0.34 | 0.33 | 0.35 | 0.35 | 0.30 | 0.34 | 0.35 | 0.34 | 0.33 | 0.32 | 0.30 | 0.32 |
| 165 | 0.33 | 0.33 | 0.34 | 0.31 | 0.31 | 0.34 | 0.33 | 0.33 | 0.33 | 0.32 | 0.35 | 0.28 | 0.34 | 0.35 | 0.34 | 0.33 | 0.33 | 0.30 | 0.33 |
| 170 | 0.28 | 0.33 | 0.32 | 0.30 | 0.30 | 0.31 | 0.30 | 0.29 | 0.32 | 0.30 | 0.32 | 0.28 | 0.34 | 0.35 | 0.34 | 0.33 | 0.34 | 0.31 | 0.32 |
| 175 | 0.28 | 0.32 | 0.34 | 0.30 | 0.30 | 0.30 | 0.30 | 0.29 | 0.31 | 0.30 | 0.30 | 0.28 | 0.34 | 0.34 | 0.33 | 0.34 | 0.34 | 0.34 | 0.32 |
| 180 | 0.33 | 0.33 | 0.34 | 0.34 | 0.34 | 0.30 | 0.30 | 0.29 | 0.31 | 0.32 | 0.30 | 0.33 | 0.34 | 0.33 | 0.33 | 0.32 | 0.31 | 0.29 | 0.30 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24DEG
Operators:SENPU
Test Date:2022-02-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-------|-----------------------|
| Test:U:12.000V I:1.0630A P:12.756W PF:1.0000 Freq:0Hz Lamp Flux:692.796x1 lm | | |
| NAME: YJ-VTC-HRB-2835X-12V-G01-2756 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.:2022030101 |
| MFR.: | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 240 | 240 | 239 | 240 | 241 | | | | | | | | | | | | | | |
| 5 | 239 | 239 | 239 | 240 | 241 | | | | | | | | | | | | | | |
| 10 | 236 | 237 | 236 | 238 | 238 | | | | | | | | | | | | | | |
| 15 | 231 | 232 | 232 | 233 | 234 | | | | | | | | | | | | | | |
| 20 | 224 | 225 | 225 | 227 | 228 | | | | | | | | | | | | | | |
| 25 | 215 | 217 | 217 | 219 | 220 | | | | | | | | | | | | | | |
| 30 | 204 | 207 | 207 | 209 | 211 | | | | | | | | | | | | | | |
| 35 | 192 | 194 | 195 | 198 | 199 | | | | | | | | | | | | | | |
| 40 | 177 | 180 | 181 | 184 | 186 | | | | | | | | | | | | | | |
| 45 | 162 | 165 | 166 | 169 | 171 | | | | | | | | | | | | | | |
| 50 | 145 | 148 | 149 | 153 | 154 | | | | | | | | | | | | | | |
| 55 | 127 | 130 | 132 | 135 | 137 | | | | | | | | | | | | | | |
| 60 | 107 | 111 | 113 | 116 | 118 | | | | | | | | | | | | | | |
| 65 | 86.8 | 90.6 | 92.1 | 96.1 | 97.9 | | | | | | | | | | | | | | |
| 70 | 65.9 | 69.7 | 71.7 | 75.4 | 77.6 | | | | | | | | | | | | | | |
| 75 | 45.3 | 48.8 | 50.7 | 54.5 | 56.7 | | | | | | | | | | | | | | |
| 80 | 25.9 | 29.2 | 31.2 | 34.5 | 36.5 | | | | | | | | | | | | | | |
| 85 | 9.08 | 12.0 | 14.1 | 16.7 | 18.4 | | | | | | | | | | | | | | |
| 90 | 0.51 | 1.63 | 3.04 | 4.85 | 6.31 | | | | | | | | | | | | | | |
| 95 | 0.12 | 0.12 | 0.27 | 0.62 | 1.25 | | | | | | | | | | | | | | |
| 100 | 0.12 | 0.14 | 0.12 | 0.14 | 0.15 | | | | | | | | | | | | | | |
| 105 | 0.12 | 0.15 | 0.12 | 0.15 | 0.12 | | | | | | | | | | | | | | |
| 110 | 0.12 | 0.19 | 0.12 | 0.17 | 0.12 | | | | | | | | | | | | | | |
| 115 | 0.12 | 0.19 | 0.12 | 0.18 | 0.12 | | | | | | | | | | | | | | |
| 120 | 0.14 | 0.21 | 0.14 | 0.20 | 0.13 | | | | | | | | | | | | | | |
| 125 | 0.14 | 0.21 | 0.20 | 0.22 | 0.14 | | | | | | | | | | | | | | |
| 130 | 0.21 | 0.23 | 0.20 | 0.25 | 0.21 | | | | | | | | | | | | | | |
| 135 | 0.21 | 0.23 | 0.20 | 0.25 | 0.22 | | | | | | | | | | | | | | |
| 140 | 0.22 | 0.23 | 0.21 | 0.28 | 0.22 | | | | | | | | | | | | | | |
| 145 | 0.22 | 0.24 | 0.23 | 0.29 | 0.22 | | | | | | | | | | | | | | |
| 150 | 0.23 | 0.28 | 0.24 | 0.30 | 0.23 | | | | | | | | | | | | | | |
| 155 | 0.23 | 0.30 | 0.26 | 0.31 | 0.26 | | | | | | | | | | | | | | |
| 160 | 0.31 | 0.31 | 0.26 | 0.33 | 0.31 | | | | | | | | | | | | | | |
| 165 | 0.33 | 0.32 | 0.27 | 0.32 | 0.32 | | | | | | | | | | | | | | |
| 170 | 0.32 | 0.31 | 0.31 | 0.33 | 0.32 | | | | | | | | | | | | | | |
| 175 | 0.33 | 0.31 | 0.32 | 0.33 | 0.34 | | | | | | | | | | | | | | |
| 180 | 0.30 | 0.28 | 0.32 | 0.30 | 0.30 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:SENPU
 Test Date:2022-02-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: