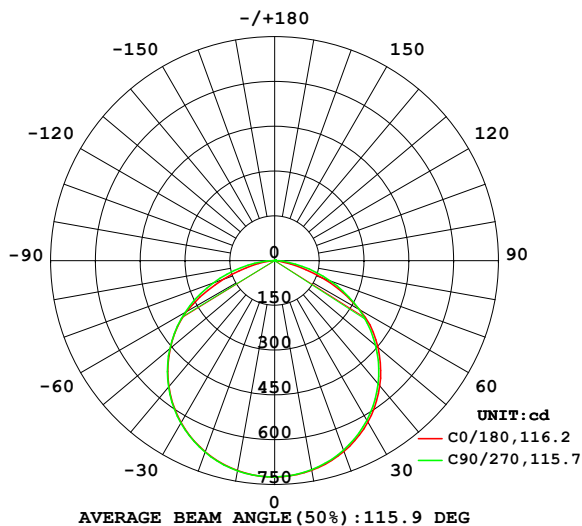


LUMINAIRE PHOTOMETRIC TEST REPORT

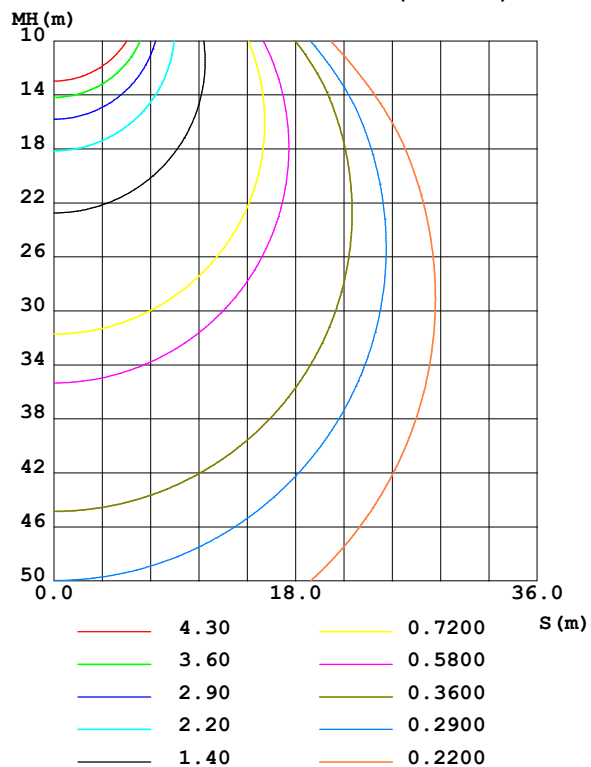
| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 88.21 lm/W |
|------------------|------------|-----------------------|--------|-------------------|----------|-----------------|
| MODEL | 3500K RA90 | I _{max} (cd) | 724.4 | S/MH(C0/180) | 1.29 | |
| NOMINAL POWER(W) | 24 | LOR(%) | 100.0 | S/MH(C90/270) | 1.29 | |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 2138.3 | η UP,DN(C0-180) | 0.2,49.1 | |
| NOMINAL FLUX(lm) | 17.8195 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.2,50.6 | |
| LAMPS INSIDE | 120 | η up (%) | 0.4 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE(V) | 24 | η down (%) | 99.6 | CIBSE SHR MAX | 1.35 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [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 | 713.1 | 711.5 | 711.3 | 712.4 | 713.8 | 715.1 | 715.0 | 714.2 | 0- 10 | 68.62 | 68.62 | 3.21,3.21 |
| 20 | 679.6 | 676.2 | 675.4 | 678.0 | 681.2 | 683.3 | 682.6 | 681.5 | 10- 20 | 197.4 | 266.1 | 12.4,12.4 |
| 30 | 624.4 | 619.1 | 617.7 | 622.0 | 626.8 | 629.6 | 628.2 | 626.9 | 20- 30 | 301.8 | 567.9 | 26.6,26.6 |
| 40 | 548.1 | 541.1 | 539.2 | 545.2 | 551.6 | 555.1 | 552.9 | 551.4 | 30- 40 | 368.3 | 936.2 | 43.8,43.8 |
| 50 | 452.1 | 443.6 | 441.7 | 449.2 | 456.8 | 461.1 | 458.4 | 456.3 | 40- 50 | 387.5 | 1324 | 61.9,61.9 |
| 60 | 328.1 | 328.1 | 326.7 | 335.1 | 340.2 | 348.9 | 346.3 | 343.0 | 50- 60 | 354.9 | 1679 | 78.5,78.5 |
| 70 | 170.4 | 198.5 | 198.1 | 207.1 | 183.4 | 222.2 | 219.9 | 215.1 | 60- 70 | 270.0 | 1949 | 91.1,91.1 |
| 80 | 31.46 | 71.61 | 71.73 | 79.36 | 55.56 | 92.40 | 90.62 | 85.53 | 70- 80 | 147.6 | 2096 | 98,98 |
| 90 | 0.3801 | 2.152 | 1.316 | 2.407 | 0.4149 | 5.272 | 4.010 | 3.669 | 80- 90 | 34.54 | 2131 | 99.6,99.6 |
| 100 | 0.5249 | 0.5064 | 0.5147 | 0.5063 | 0.5701 | 0.5542 | 0.5302 | 0.5514 | 90-100 | 1.058 | 2132 | 99.7,99.7 |
| 110 | 0.7875 | 0.7637 | 0.7449 | 0.7739 | 0.8170 | 0.7905 | 0.7533 | 0.7797 | 100-110 | 0.6847 | 2133 | 99.7,99.7 |
| 120 | 1.074 | 1.031 | 1.018 | 1.042 | 1.080 | 1.035 | 1.003 | 1.024 | 110-120 | 0.8954 | 2133 | 99.8,99.8 |
| 130 | 1.347 | 1.302 | 1.288 | 1.315 | 1.353 | 1.303 | 1.265 | 1.278 | 120-130 | 1.048 | 2134 | 99.8,99.8 |
| 140 | 1.599 | 1.546 | 1.548 | 1.572 | 1.607 | 1.562 | 1.525 | 1.530 | 130-140 | 1.108 | 2136 | 99.9,99.9 |
| 150 | 1.822 | 1.777 | 1.789 | 1.800 | 1.836 | 1.801 | 1.777 | 1.764 | 140-150 | 1.053 | 2137 | 99.9,99.9 |
| 160 | 2.001 | 1.982 | 2.023 | 2.000 | 2.020 | 2.006 | 2.013 | 1.982 | 150-160 | 0.8762 | 2138 | 100,100 |
| 170 | 2.153 | 2.161 | 2.201 | 2.160 | 2.175 | 2.171 | 2.212 | 2.158 | 160-170 | 0.5903 | 2138 | 100,100 |
| 180 | 2.245 | 2.255 | 2.301 | 2.244 | 2.245 | 2.258 | 2.299 | 2.268 | 170-180 | 0.2110 | 2138 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 1169.7 lm

%lum = 54.7%

%lamp = 54.7%

Conical surface Flux(120deg): 1678.7 lm

%lum = 78.5%

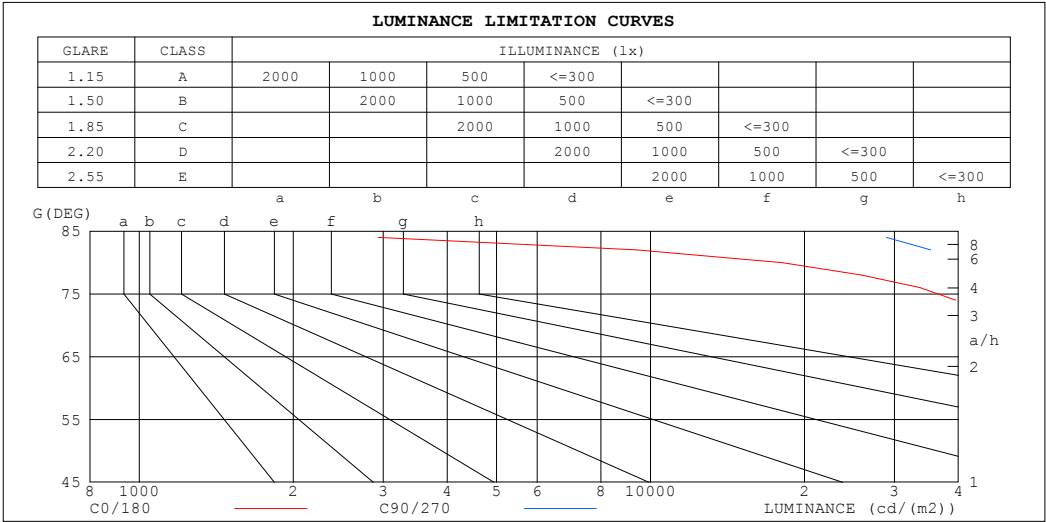
%lamp = 78.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
 Humidity:65.0%
 Test Distance:6.040m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 3514 | 34716 |
| 80 | 18107 | 41324 |
| 75 | 42103 | 56222 |
| 70 | 49810 | 57933 |
| 65 | 62960 | 65448 |
| 60 | 65590 | 65365 |
| 55 | 71184 | 69336 |
| 50 | 70307 | 68734 |
| 45 | 72381 | 71065 |

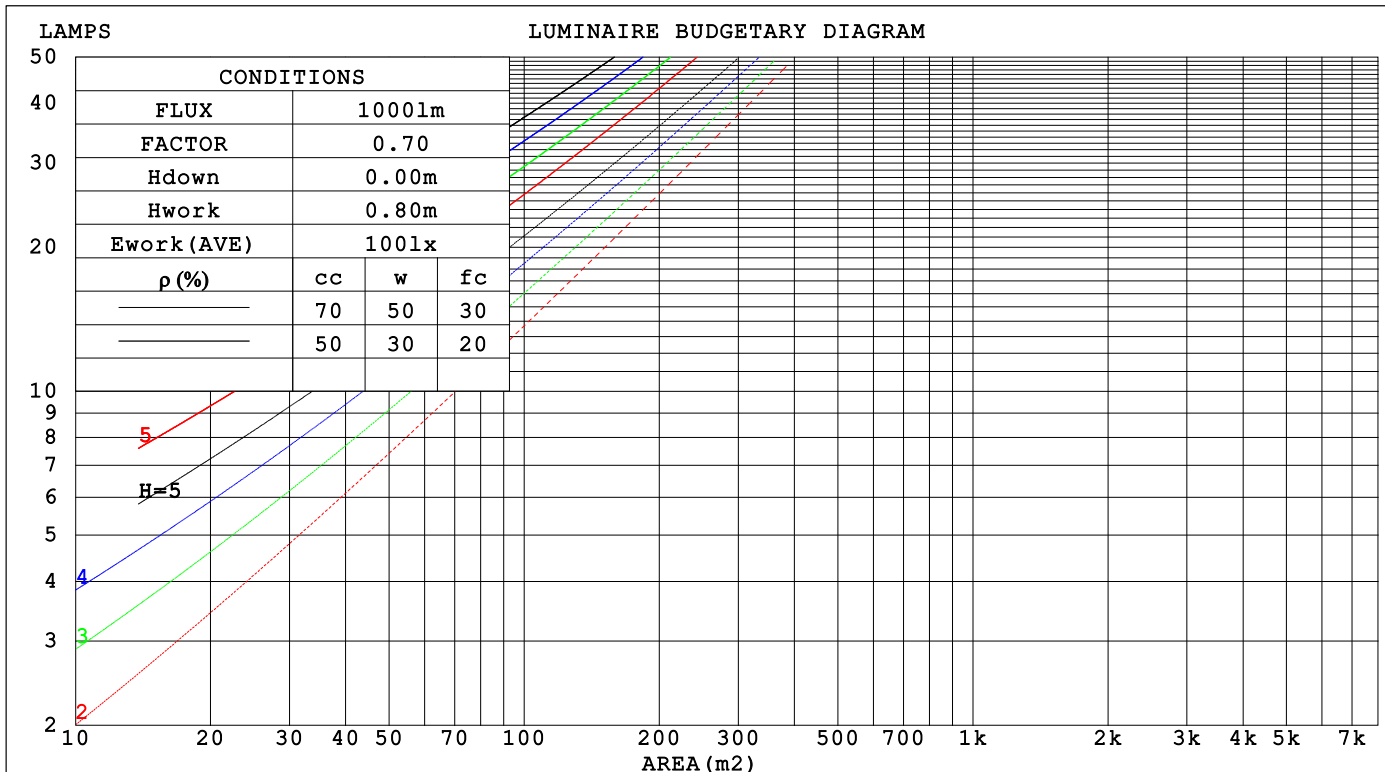
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | 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 | | | | | | | | | | | | | | | 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 | .83 | .78 | .88 | .82 | .77 | .85 | .79 | .75 | .81 | .77 | .73 | .78 | .75 | .71 | .69 | | | | | | | | | | | | | | |
| 3.0 | .79 | .71 | .64 | .78 | .70 | .64 | .75 | .68 | .63 | .72 | .66 | .61 | .69 | .64 | .60 | .58 | | | | | | | | | | | | | | |
| 4.0 | .70 | .61 | .54 | .69 | .60 | .54 | .66 | .59 | .53 | .64 | .57 | .52 | .61 | .56 | .52 | .49 | | | | | | | | | | | | | | |
| 5.0 | .62 | .53 | .47 | .61 | .53 | .46 | .59 | .52 | .46 | .57 | .50 | .45 | .55 | .49 | .45 | .43 | | | | | | | | | | | | | | |
| 6.0 | .56 | .47 | .41 | .55 | .47 | .40 | .53 | .46 | .40 | .52 | .45 | .40 | .50 | .44 | .39 | .37 | | | | | | | | | | | | | | |
| 7.0 | .51 | .42 | .36 | .50 | .42 | .36 | .48 | .41 | .35 | .47 | .40 | .35 | .46 | .39 | .35 | .33 | | | | | | | | | | | | | | |
| 8.0 | .46 | .38 | .32 | .46 | .37 | .32 | .44 | .37 | .32 | .43 | .36 | .31 | .42 | .36 | .31 | .29 | | | | | | | | | | | | | | |
| 9.0 | .42 | .34 | .29 | .42 | .34 | .29 | .41 | .33 | .28 | .40 | .33 | .28 | .39 | .32 | .28 | .26 | | | | | | | | | | | | | | |
| 10.0 | .39 | .31 | .26 | .39 | .31 | .26 | .38 | .31 | .26 | .37 | .30 | .26 | .36 | .30 | .25 | .24 | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

WEC AND CCEC

| | | | | | |
|---|--|--|---------------|--|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | | | | |
| NAME: 2835 1200D IP20 | | | TYPE: | | WEIGHT: |
| SPEC.: | | | DIM.: | | SERIAL No.: |
| MFR.: | | | SUR.: 0.010*1 | | 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 | .308 | .175 | .056 | .301 | .172 | .055 | .288 | .165 | .053 | .275 | .159 | .051 | .264 | .153 | .049 | | |
| 2.0 | .292 | .160 | .049 | .285 | .157 | .048 | .273 | .152 | .047 | .262 | .147 | .046 | .252 | .143 | .045 | | |
| 3.0 | .270 | .144 | .043 | .265 | .142 | .043 | .254 | .138 | .042 | .245 | .134 | .041 | .236 | .130 | .040 | | |
| 4.0 | .250 | .130 | .038 | .245 | .128 | .038 | .236 | .125 | .037 | .227 | .122 | .037 | .219 | .119 | .036 | | |
| 5.0 | .231 | .118 | .034 | .227 | .116 | .034 | .218 | .114 | .033 | .211 | .111 | .033 | .203 | .109 | .033 | | |
| 6.0 | .214 | .107 | .031 | .210 | .106 | .031 | .203 | .104 | .030 | .196 | .102 | .030 | .190 | .100 | .030 | | |
| 7.0 | .200 | .099 | .028 | .196 | .098 | .028 | .189 | .096 | .028 | .183 | .094 | .027 | .177 | .092 | .027 | | |
| 8.0 | .186 | .091 | .026 | .183 | .090 | .025 | .177 | .089 | .025 | .172 | .087 | .025 | .166 | .085 | .025 | | |
| 9.0 | .175 | .084 | .024 | .172 | .084 | .023 | .166 | .082 | .023 | .161 | .081 | .023 | .157 | .080 | .023 | | |
| 10.0 | .164 | .079 | .022 | .162 | .078 | .022 | .157 | .077 | .022 | .152 | .076 | .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 | .193 | .193 | .193 | .165 | .165 | .165 | .113 | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 | | |
| 1.0 | .183 | .159 | .137 | .156 | .136 | .118 | .107 | .094 | .082 | .062 | .054 | .047 | .020 | .017 | .015 | | |
| 2.0 | .175 | .135 | .101 | .150 | .116 | .087 | .103 | .080 | .061 | .059 | .047 | .036 | .019 | .015 | .012 | | |
| 3.0 | .167 | .117 | .077 | .143 | .101 | .067 | .098 | .070 | .047 | .057 | .041 | .028 | .018 | .013 | .009 | | |
| 4.0 | .160 | .104 | .061 | .137 | .090 | .053 | .094 | .062 | .037 | .055 | .037 | .022 | .018 | .012 | .007 | | |
| 5.0 | .152 | .093 | .050 | .131 | .081 | .043 | .090 | .056 | .031 | .052 | .033 | .018 | .017 | .011 | .006 | | |
| 6.0 | .145 | .085 | .042 | .125 | .074 | .036 | .086 | .052 | .026 | .050 | .030 | .015 | .016 | .010 | .005 | | |
| 7.0 | .138 | .078 | .036 | .119 | .068 | .031 | .082 | .047 | .022 | .048 | .028 | .013 | .015 | .009 | .004 | | |
| 8.0 | .132 | .072 | .031 | .114 | .063 | .027 | .079 | .044 | .019 | .046 | .026 | .012 | .015 | .009 | .004 | | |
| 9.0 | .126 | .067 | .028 | .108 | .059 | .024 | .075 | .041 | .017 | .044 | .024 | .010 | .014 | .008 | .003 | | |
| 10.0 | .120 | .063 | .025 | .104 | .055 | .022 | .072 | .039 | .016 | .042 | .023 | .009 | .014 | .007 | .003 | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|--|------------------|------|------|---------------|------|----------------|------------------|------|------|------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | | | | | | | | | | |
| NAME: 2835 1200D IP20 | | | | | TYPE: | | | WEIGHT: | | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | | |
| MFR.: | | | | | SUR.: 0.010*1 | | | 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 | | 24.9 | 26.5 | 25.2 | 26.7 | 26.9 | 24.8 | 26.4 | 25.1 | 26.6 | 26.8 |
| 3H | | 26.3 | 27.7 | 26.6 | 27.9 | 28.1 | 26.3 | 27.7 | 26.6 | 28.0 | 28.2 |
| 4H | | 26.6 | 28.0 | 27.0 | 28.2 | 28.5 | 26.8 | 28.2 | 27.2 | 28.4 | 28.7 |
| 6H | | 26.7 | 28.0 | 27.1 | 28.3 | 28.6 | 27.2 | 28.4 | 27.5 | 28.7 | 29.0 |
| 8H | | 26.7 | 27.9 | 27.0 | 28.2 | 28.5 | 27.2 | 28.4 | 27.6 | 28.7 | 29.0 |
| 12H | | 26.6 | 27.8 | 27.0 | 28.1 | 28.4 | 27.2 | 28.4 | 27.6 | 28.7 | 29.0 |
| 4H 2H | | 25.5 | 26.9 | 25.8 | 27.1 | 27.4 | 25.4 | 26.8 | 25.8 | 27.0 | 27.3 |
| 3H | | 27.1 | 28.2 | 27.4 | 28.5 | 28.9 | 27.1 | 28.3 | 27.4 | 28.6 | 28.9 |
| 4H | | 27.6 | 28.7 | 28.0 | 29.0 | 29.3 | 27.7 | 28.8 | 28.1 | 29.1 | 29.5 |
| 6H | | 27.8 | 28.8 | 28.2 | 29.1 | 29.5 | 28.1 | 29.1 | 28.5 | 29.4 | 29.8 |
| 8H | | 27.8 | 28.7 | 28.3 | 29.1 | 29.5 | 28.2 | 29.1 | 28.7 | 29.5 | 29.9 |
| 12H | | 27.8 | 28.6 | 28.2 | 29.0 | 29.4 | 28.3 | 29.1 | 28.7 | 29.5 | 29.9 |
| 8H 4H | | 27.8 | 28.7 | 28.3 | 29.1 | 29.5 | 27.9 | 28.8 | 28.4 | 29.2 | 29.6 |
| 6H | | 28.2 | 29.0 | 28.7 | 29.4 | 29.8 | 28.5 | 29.2 | 28.9 | 29.6 | 30.1 |
| 8H | | 28.3 | 29.0 | 28.8 | 29.4 | 29.8 | 28.6 | 29.3 | 29.1 | 29.7 | 30.2 |
| 12H | | 28.3 | 28.9 | 28.8 | 29.3 | 29.8 | 28.7 | 29.3 | 29.2 | 29.7 | 30.2 |
| 12H 4H | | 27.8 | 28.6 | 28.3 | 29.0 | 29.5 | 27.9 | 28.8 | 28.4 | 29.1 | 29.6 |
| 6H | | 28.3 | 28.9 | 28.7 | 29.3 | 29.8 | 28.5 | 29.2 | 29.0 | 29.6 | 30.0 |
| 8H | | 28.4 | 28.9 | 28.8 | 29.4 | 29.9 | 28.7 | 29.2 | 29.2 | 29.7 | 30.2 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | | |
| S = 1.0H | | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.2 | | | | |
| 1.5H | | + 0.2 / - 0.4 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | | + 0.2 / - 0.5 | | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117, 2138 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.6)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

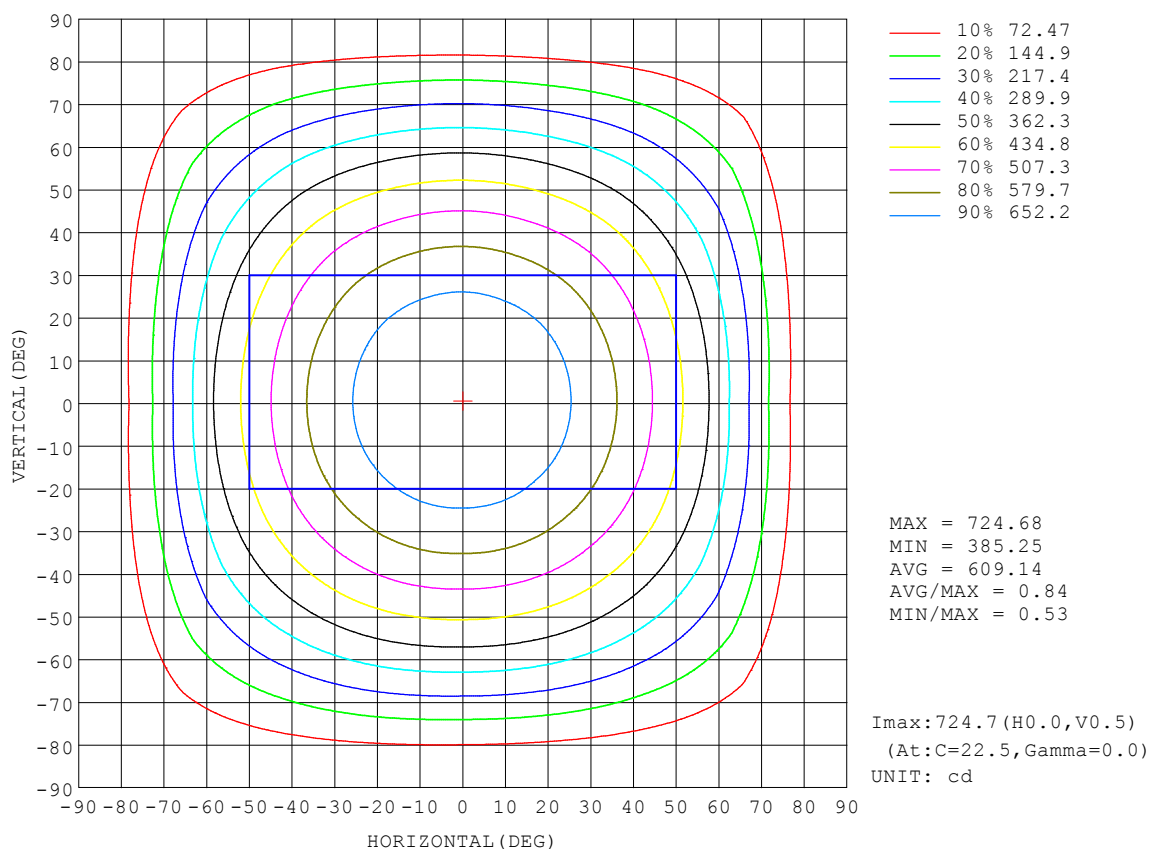
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 45 | 38 | 56 | 45 | 38 | 55 | 45 | 38 | 31 |
| 0.80 | 67 | 55 | 48 | 66 | 55 | 48 | 64 | 54 | 47 | 40 |
| 1.00 | 76 | 64 | 57 | 74 | 64 | 57 | 72 | 65 | 56 | 49 |
| 1.25 | 83 | 72 | 65 | 81 | 71 | 65 | 79 | 70 | 64 | 56 |
| 1.50 | 88 | 78 | 71 | 86 | 77 | 70 | 83 | 75 | 69 | 62 |
| 2.00 | 95 | 86 | 80 | 93 | 85 | 79 | 89 | 83 | 77 | 69 |
| 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 | 99 | 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: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

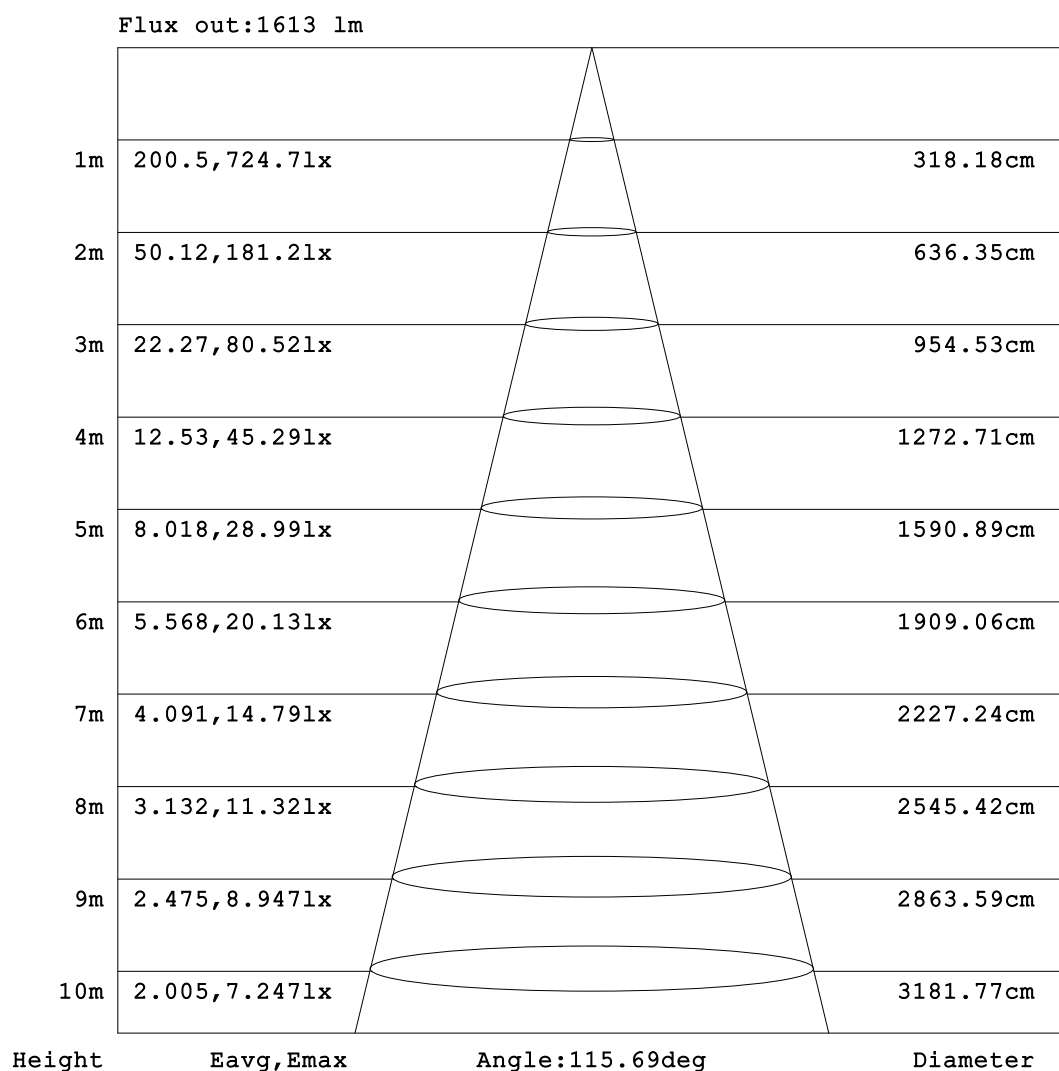


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity: 65.0%
Test Distance: 6.040m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |



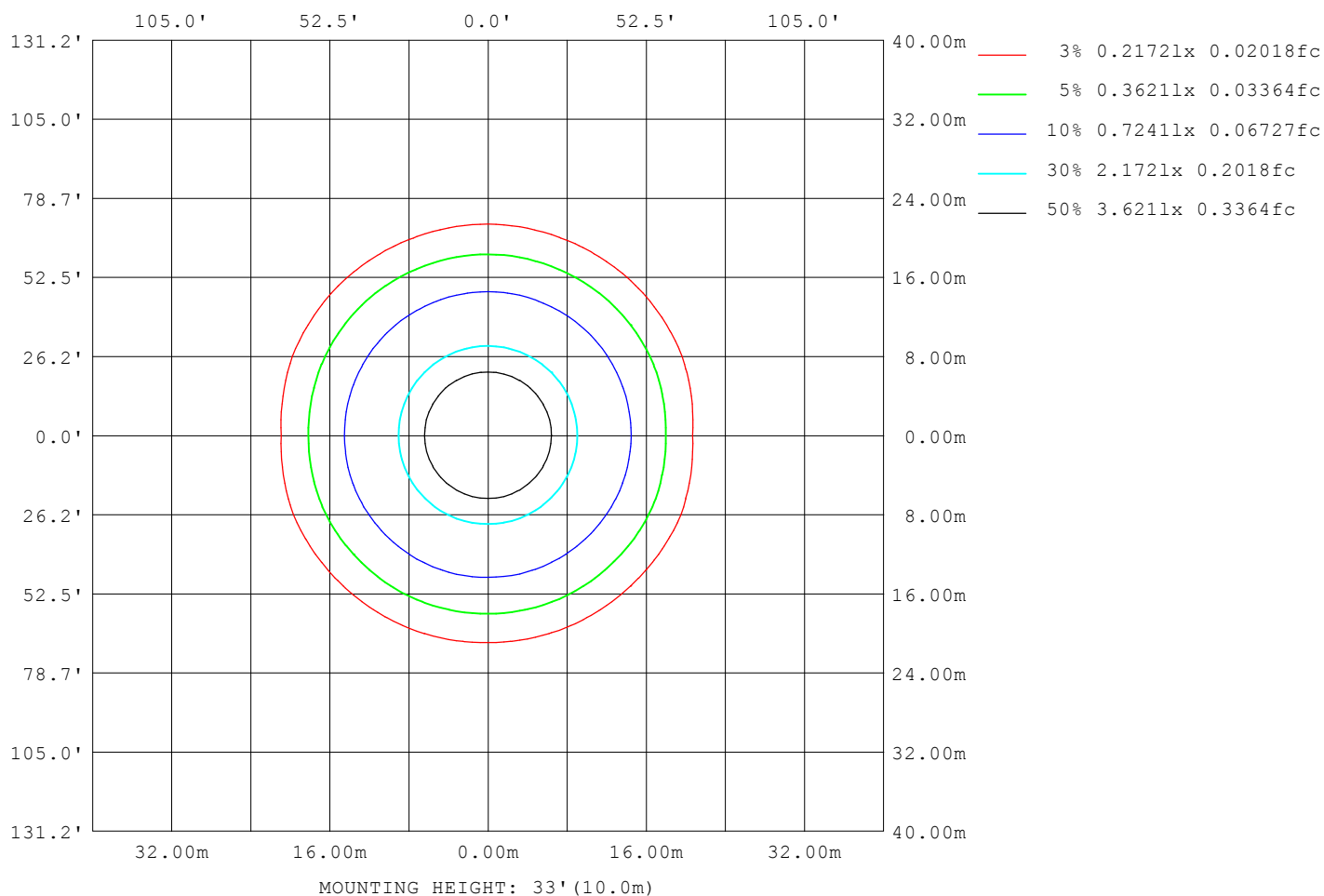
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity: 65.0%
Test Distance: 6.040m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|---------------|------------------|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | |
| NAME: 2835 1200D IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

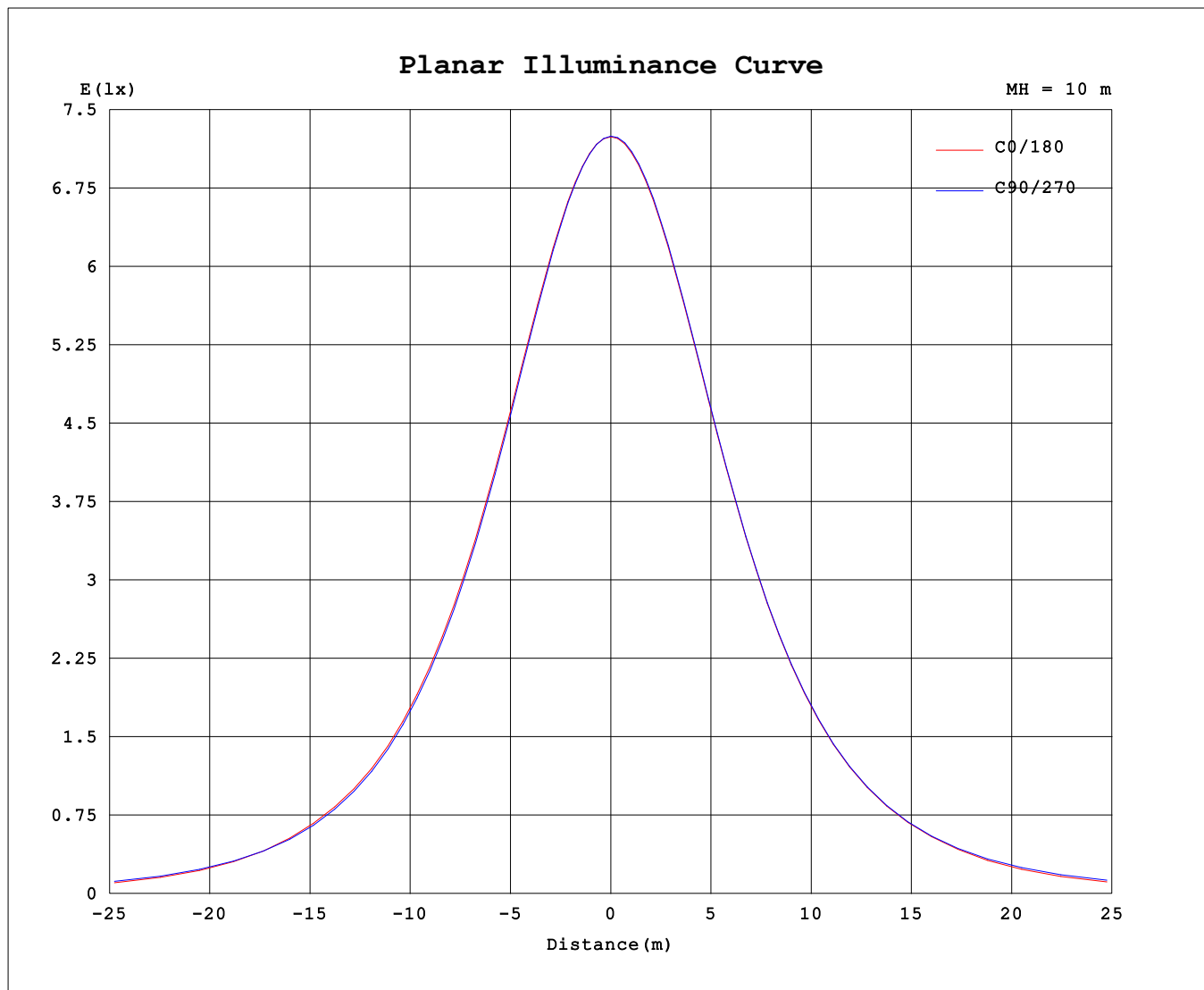
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 60614 |
| L_0~180 (75) av | 39751 |
| L_0~180 (85) av | 8706 |
| L_90~270 (65) av | 64847 |
| L_90~270 (75) av | 55386 |
| L_90~270 (85) av | 33621 |
| L_45 (65) av | 65339 |
| L_45 (75) av | 55886 |
| L_45 (85) av | 34756 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2024-02-29

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.450
 Humidity: 65.0%
 Test Distance: 6.040m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|---------------|--|--|--|--|--|------------------|--|--|
| Test:U:23.998V I:1.0101A P:24.240W PF:1.0000 Freq:49.99Hz Lamp Flux:17.8195x120 lm | | | | | | | | | | | | | | | | | |
| NAME: 2835 1200D IP20 | | | | | | | | | TYPE: | | | | | | WEIGHT: | | |
| SPEC.: | | | | | | | | | DIM.: | | | | | | SERIAL No.: | | |
| MFR.: | | | | | | | | | SUR.: 0.010*1 | | | | | | 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 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | 724 | | | |
| 5 | 723 | 722 | 722 | 722 | 722 | 722 | 722 | 723 | 723 | 723 | 723 | 723 | 723 | 723 | 723 | 723 | | | |
| 10 | 713 | 713 | 711 | 711 | 711 | 712 | 712 | 713 | 714 | 714 | 715 | 715 | 715 | 714 | 714 | 714 | | | |
| 15 | 702 | 702 | 700 | 700 | 700 | 701 | 701 | 703 | 703 | 704 | 705 | 705 | 705 | 704 | 704 | 703 | | | |
| 20 | 680 | 678 | 676 | 676 | 675 | 677 | 678 | 680 | 681 | 682 | 683 | 683 | 683 | 681 | 681 | 680 | | | |
| 25 | 660 | 659 | 656 | 655 | 655 | 657 | 658 | 661 | 662 | 663 | 664 | 663 | 663 | 662 | 662 | 661 | | | |
| 30 | 624 | 623 | 619 | 618 | 618 | 620 | 622 | 625 | 627 | 628 | 630 | 628 | 628 | 626 | 627 | 625 | | | |
| 35 | 596 | 594 | 590 | 590 | 589 | 592 | 594 | 597 | 599 | 600 | 602 | 601 | 600 | 599 | 599 | 598 | | | |
| 40 | 548 | 546 | 541 | 540 | 539 | 543 | 545 | 549 | 552 | 553 | 555 | 553 | 553 | 551 | 551 | 550 | | | |
| 45 | 512 | 509 | 504 | 503 | 502 | 506 | 509 | 514 | 516 | 517 | 520 | 518 | 517 | 515 | 516 | 513 | | | |
| 50 | 452 | 449 | 444 | 443 | 442 | 446 | 449 | 454 | 457 | 459 | 461 | 459 | 458 | 456 | 456 | 454 | | | |
| 55 | 408 | 405 | 399 | 399 | 398 | 403 | 405 | 411 | 414 | 416 | 418 | 416 | 416 | 413 | 413 | 410 | | | |
| 60 | 328 | 334 | 328 | 328 | 327 | 332 | 335 | 341 | 340 | 346 | 349 | 347 | 346 | 343 | 343 | 339 | | | |
| 65 | 266 | 283 | 278 | 277 | 276 | 282 | 285 | 291 | 278 | 296 | 300 | 298 | 297 | 294 | 293 | 289 | | | |
| 70 | 170 | 204 | 199 | 199 | 198 | 204 | 207 | 213 | 183 | 218 | 222 | 220 | 220 | 216 | 215 | 210 | | | |
| 75 | 109 | 151 | 145 | 146 | 145 | 151 | 154 | 160 | 124 | 165 | 170 | 168 | 167 | 163 | 162 | 157 | | | |
| 80 | 31.5 | 75.1 | 71.6 | 70.9 | 71.7 | 75.7 | 79.4 | 83.5 | 55.6 | 88.3 | 92.4 | 90.9 | 90.6 | 86.7 | 85.5 | 81.8 | | | |
| 85 | 3.06 | 33.7 | 30.5 | 30.4 | 30.2 | 34.2 | 36.6 | 40.4 | 22.2 | 44.5 | 47.6 | 46.5 | 46.0 | 42.9 | 41.7 | 38.3 | | | |
| 90 | 0.38 | 2.36 | 2.15 | 1.77 | 1.32 | 1.88 | 2.41 | 3.26 | 0.41 | 4.32 | 5.27 | 4.52 | 4.01 | 3.47 | 3.67 | 3.01 | | | |
| 95 | 0.38 | 0.40 | 0.99 | 1.13 | 0.92 | 1.15 | 1.12 | 0.41 | 0.44 | 0.46 | 1.12 | 1.19 | 0.94 | 1.17 | 1.03 | 0.46 | | | |
| 100 | 0.52 | 0.53 | 0.51 | 0.51 | 0.51 | 0.52 | 0.51 | 0.54 | 0.57 | 0.54 | 0.55 | 0.52 | 0.53 | 0.50 | 0.55 | 0.55 | | | |
| 105 | 0.62 | 0.64 | 0.61 | 0.61 | 0.59 | 0.62 | 0.61 | 0.64 | 0.67 | 0.62 | 0.64 | 0.60 | 0.61 | 0.59 | 0.64 | 0.64 | | | |
| 110 | 0.79 | 0.80 | 0.76 | 0.77 | 0.74 | 0.78 | 0.77 | 0.80 | 0.82 | 0.77 | 0.79 | 0.75 | 0.75 | 0.73 | 0.78 | 0.79 | | | |
| 115 | 0.90 | 0.91 | 0.87 | 0.87 | 0.85 | 0.88 | 0.88 | 0.91 | 0.92 | 0.87 | 0.89 | 0.84 | 0.85 | 0.83 | 0.87 | 0.88 | | | |
| 120 | 1.07 | 1.08 | 1.03 | 1.03 | 1.02 | 1.05 | 1.04 | 1.07 | 1.08 | 1.03 | 1.03 | 1.00 | 1.00 | 0.97 | 1.02 | 1.04 | | | |
| 125 | 1.18 | 1.19 | 1.14 | 1.14 | 1.13 | 1.17 | 1.15 | 1.18 | 1.19 | 1.14 | 1.14 | 1.11 | 1.11 | 1.08 | 1.13 | 1.14 | | | |
| 130 | 1.35 | 1.35 | 1.30 | 1.30 | 1.29 | 1.34 | 1.31 | 1.34 | 1.35 | 1.29 | 1.30 | 1.28 | 1.27 | 1.23 | 1.28 | 1.30 | | | |
| 135 | 1.45 | 1.45 | 1.40 | 1.40 | 1.39 | 1.45 | 1.42 | 1.45 | 1.46 | 1.40 | 1.40 | 1.39 | 1.37 | 1.34 | 1.38 | 1.40 | | | |
| 140 | 1.60 | 1.59 | 1.55 | 1.56 | 1.55 | 1.61 | 1.57 | 1.60 | 1.61 | 1.55 | 1.56 | 1.53 | 1.52 | 1.49 | 1.53 | 1.55 | | | |
| 145 | 1.70 | 1.69 | 1.64 | 1.66 | 1.65 | 1.71 | 1.67 | 1.70 | 1.71 | 1.65 | 1.66 | 1.63 | 1.62 | 1.58 | 1.63 | 1.64 | | | |
| 150 | 1.82 | 1.82 | 1.78 | 1.79 | 1.79 | 1.84 | 1.80 | 1.84 | 1.84 | 1.79 | 1.80 | 1.78 | 1.78 | 1.72 | 1.76 | 1.77 | | | |
| 155 | 1.89 | 1.90 | 1.86 | 1.88 | 1.88 | 1.93 | 1.89 | 1.91 | 1.91 | 1.87 | 1.89 | 1.87 | 1.87 | 1.81 | 1.85 | 1.85 | | | |
| 160 | 2.00 | 2.01 | 1.98 | 2.01 | 2.02 | 2.05 | 2.00 | 2.02 | 2.02 | 1.99 | 2.01 | 2.00 | 2.01 | 1.94 | 1.98 | 1.97 | | | |
| 165 | 2.07 | 2.09 | 2.06 | 2.09 | 2.11 | 2.13 | 2.07 | 2.09 | 2.09 | 2.05 | 2.07 | 2.07 | 2.11 | 2.03 | 2.06 | 2.04 | | | |
| 170 | 2.15 | 2.18 | 2.16 | 2.20 | 2.20 | 2.22 | 2.16 | 2.17 | 2.17 | 2.14 | 2.17 | 2.17 | 2.21 | 2.14 | 2.16 | 2.14 | | | |
| 175 | 2.20 | 2.23 | 2.21 | 2.25 | 2.25 | 2.25 | 2.20 | 2.22 | 2.22 | 2.19 | 2.22 | 2.21 | 2.26 | 2.20 | 2.22 | 2.19 | | | |
| 180 | 2.25 | 2.25 | 2.26 | 2.28 | 2.30 | 2.29 | 2.24 | 2.25 | 2.25 | 2.25 | 2.26 | 2.27 | 2.30 | 2.27 | 2.27 | 2.24 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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Operators:
Test Date:2024-02-29

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
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Humidity:65.0%
Test Distance:6.040m [K=1.0000]
Remarks: