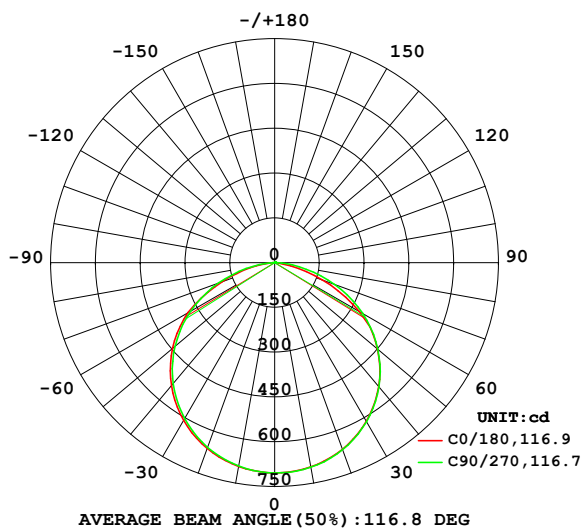


LUMINAIRE PHOTOMETRIC TEST REPORT

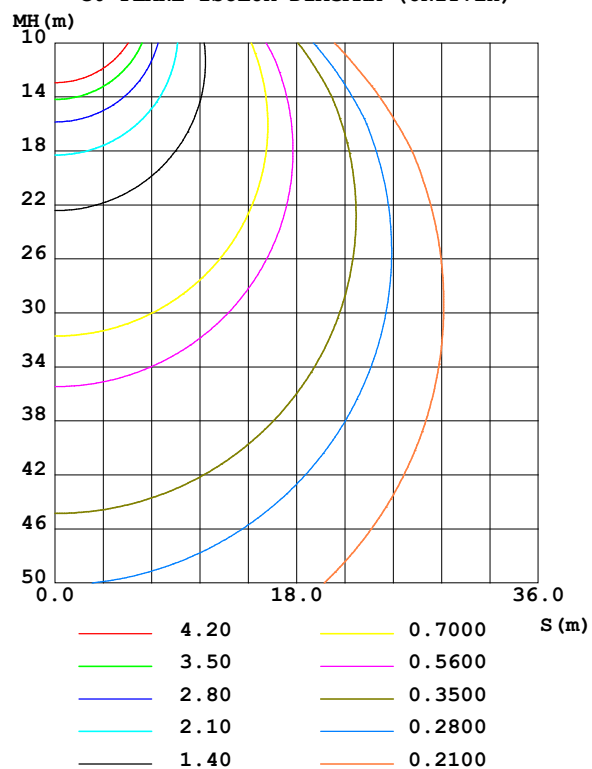
| | | |
|---|---------------|------------------|
| Test:U:23.998V I:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 88.69 lm/W |
|------------------|---------|-----------------------|--------|-------------------|----------|-----------------|
| MODEL | 4000K | I _{max} (cd) | 704.4 | S/MH(C0/180) | 1.29 | |
| NOMINAL POWER(W) | 24 | LOR(%) | 100.0 | S/MH(C90/270) | 1.27 | |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 2102.6 | η UP,DN(C0-180) | 0.2,50.4 | |
| NOMINAL FLUX(lm) | 17.5217 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.2,49.2 | |
| 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:2024-05-05

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 | 695.0 | 696.0 | 696.1 | 695.2 | 693.4 | 692.2 | 691.8 | 692.9 | 0- 10 | 66.74 | 66.74 | 3.17,3.17 |
| 20 | 664.9 | 666.6 | 666.4 | 665.1 | 662.0 | 659.2 | 657.9 | 660.6 | 10- 20 | 192.3 | 259.1 | 12.3,12.3 |
| 30 | 614.0 | 615.8 | 615.3 | 614.0 | 610.0 | 605.8 | 603.3 | 607.4 | 20- 30 | 294.8 | 553.9 | 26.3,26.3 |
| 40 | 542.1 | 544.2 | 543.4 | 542.6 | 537.9 | 532.7 | 528.9 | 533.9 | 30- 40 | 361.0 | 914.9 | 43.5,43.5 |
| 50 | 450.0 | 452.1 | 451.6 | 451.4 | 446.5 | 440.5 | 435.6 | 440.8 | 40- 50 | 381.3 | 1296 | 61.6,61.6 |
| 60 | 327.0 | 340.5 | 340.7 | 341.2 | 336.1 | 330.2 | 324.7 | 329.2 | 50- 60 | 350.6 | 1647 | 78.3,78.3 |
| 70 | 170.9 | 212.6 | 214.1 | 215.5 | 186.5 | 205.6 | 199.9 | 202.7 | 60- 70 | 267.7 | 1914 | 91.1,91.1 |
| 80 | 31.05 | 82.89 | 84.30 | 86.06 | 63.56 | 79.08 | 74.10 | 75.09 | 70- 80 | 147.0 | 2061 | 98,98 |
| 90 | 0.3921 | 2.949 | 2.407 | 3.027 | 0.4359 | 3.004 | 2.090 | 2.602 | 80- 90 | 33.65 | 2095 | 99.6,99.6 |
| 100 | 0.5197 | 0.4829 | 0.5390 | 0.4934 | 0.5780 | 0.5830 | 0.5617 | 0.5698 | 90-100 | 1.084 | 2096 | 99.7,99.7 |
| 110 | 0.7823 | 0.7347 | 0.7160 | 0.7556 | 0.8301 | 0.8271 | 0.7926 | 0.8034 | 100-110 | 0.6892 | 2097 | 99.7,99.7 |
| 120 | 1.063 | 0.9946 | 0.9705 | 1.018 | 1.090 | 1.074 | 1.042 | 1.048 | 110-120 | 0.8971 | 2098 | 99.8,99.8 |
| 130 | 1.331 | 1.257 | 1.246 | 1.291 | 1.361 | 1.337 | 1.304 | 1.300 | 120-130 | 1.047 | 2099 | 99.8,99.8 |
| 140 | 1.573 | 1.501 | 1.503 | 1.546 | 1.610 | 1.583 | 1.556 | 1.541 | 130-140 | 1.104 | 2100 | 99.9,99.9 |
| 150 | 1.793 | 1.732 | 1.750 | 1.774 | 1.831 | 1.812 | 1.790 | 1.775 | 140-150 | 1.046 | 2101 | 99.9,99.9 |
| 160 | 1.972 | 1.940 | 1.983 | 1.974 | 2.004 | 2.001 | 2.015 | 1.969 | 150-160 | 0.8688 | 2102 | 100,100 |
| 170 | 2.119 | 2.124 | 2.172 | 2.131 | 2.154 | 2.155 | 2.201 | 2.147 | 160-170 | 0.5843 | 2102 | 100,100 |
| 180 | 2.216 | 2.234 | 2.277 | 2.226 | 2.216 | 2.231 | 2.275 | 2.244 | 170-180 | 0.2087 | 2103 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 1144.4 lm

%lum = 54.4%

%lamp = 54.4%

Conical surface Flux(120deg): 1646.8 lm

%lum = 78.3%

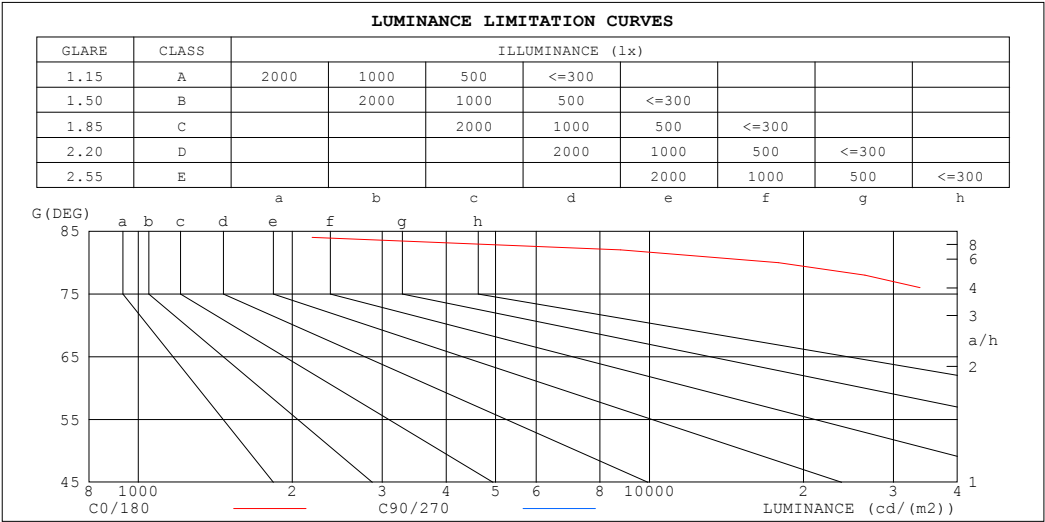
%lamp = 78.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 2625 | 46301 |
| 80 | 17872 | 48568 |
| 75 | 42746 | 62313 |
| 70 | 49953 | 62634 |
| 65 | 62618 | 69061 |
| 60 | 65370 | 68171 |
| 55 | 71028 | 71385 |
| 50 | 69971 | 70289 |
| 45 | 71745 | 72014 |

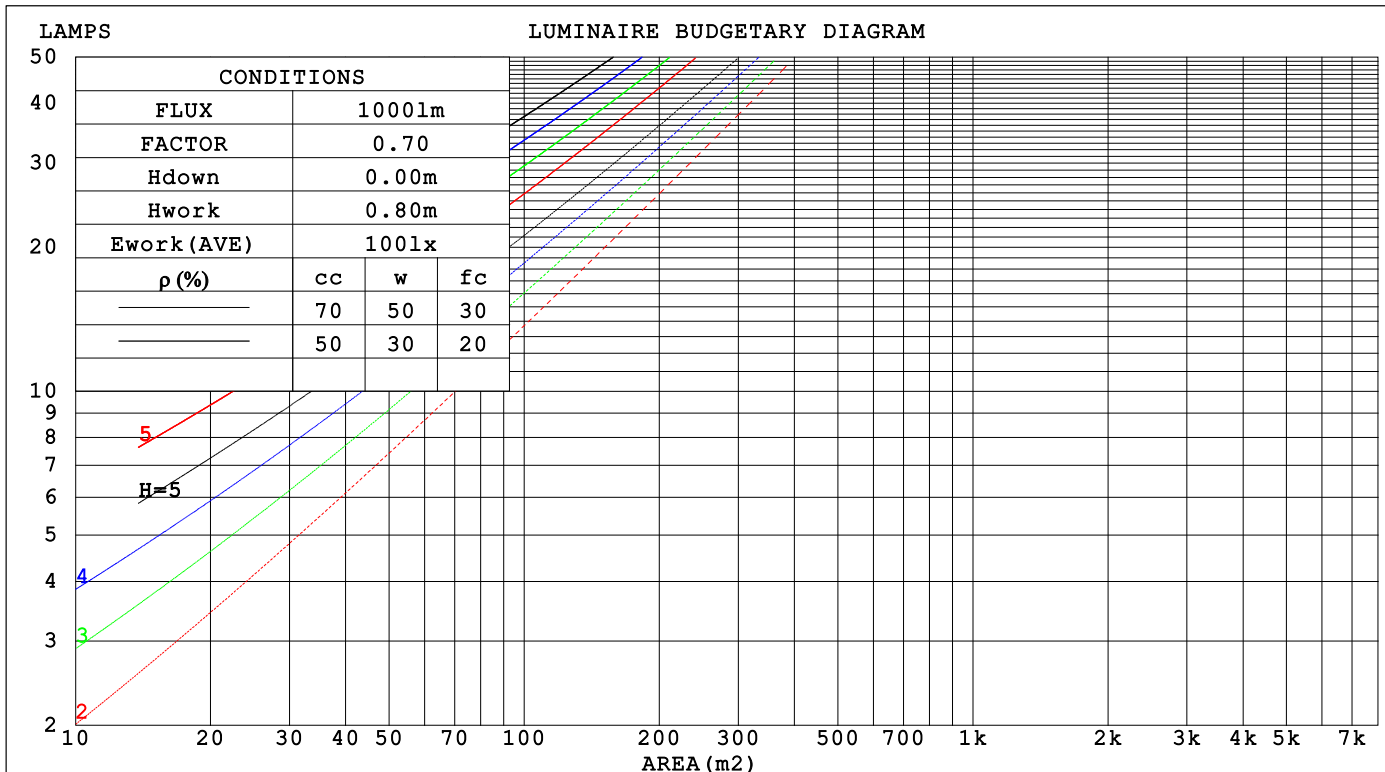
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-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 | .87 | .85 | .83 | | | | | | | | | | | | | | |
| 2.0 | .90 | .83 | .78 | .88 | .82 | .77 | .85 | .79 | .75 | .81 | .77 | .73 | .78 | .75 | .71 | .69 | | | | | | | | | | | | | | |
| 3.0 | .79 | .71 | .64 | .77 | .70 | .64 | .74 | .68 | .62 | .72 | .66 | .61 | .69 | .64 | .60 | .58 | | | | | | | | | | | | | | |
| 4.0 | .70 | .61 | .54 | .69 | .60 | .54 | .66 | .59 | .53 | .64 | .57 | .52 | .61 | .56 | .51 | .49 | | | | | | | | | | | | | | |
| 5.0 | .62 | .53 | .47 | .61 | .53 | .46 | .59 | .51 | .46 | .57 | .50 | .45 | .55 | .49 | .45 | .42 | | | | | | | | | | | | | | |
| 6.0 | .56 | .47 | .40 | .55 | .46 | .40 | .53 | .46 | .40 | .51 | .45 | .39 | .50 | .44 | .39 | .37 | | | | | | | | | | | | | | |
| 7.0 | .51 | .42 | .36 | .50 | .41 | .35 | .48 | .41 | .35 | .47 | .40 | .35 | .45 | .39 | .35 | .33 | | | | | | | | | | | | | | |
| 8.0 | .46 | .38 | .32 | .45 | .37 | .32 | .44 | .37 | .31 | .43 | .36 | .31 | .42 | .36 | .31 | .29 | | | | | | | | | | | | | | |
| 9.0 | .42 | .34 | .28 | .42 | .34 | .28 | .41 | .33 | .28 | .39 | .33 | .28 | .38 | .32 | .28 | .26 | | | | | | | | | | | | | | |
| 10.0 | .39 | .31 | .26 | .39 | .31 | .26 | .37 | .30 | .26 | .37 | .30 | .25 | .36 | .30 | .25 | .24 | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-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 | .309 | .176 | .056 | .302 | .172 | .055 | .288 | .165 | .053 | .276 | .159 | .051 | .265 | .153 | .049 | | |
| 2.0 | .292 | .160 | .049 | .286 | .158 | .049 | .274 | .152 | .047 | .263 | .148 | .046 | .253 | .143 | .045 | | |
| 3.0 | .271 | .144 | .043 | .266 | .142 | .043 | .255 | .138 | .042 | .245 | .134 | .041 | .236 | .131 | .040 | | |
| 4.0 | .250 | .130 | .038 | .246 | .128 | .038 | .236 | .125 | .037 | .227 | .122 | .037 | .219 | .119 | .036 | | |
| 5.0 | .232 | .118 | .034 | .227 | .117 | .034 | .219 | .114 | .034 | .211 | .111 | .033 | .204 | .109 | .033 | | |
| 6.0 | .215 | .108 | .031 | .211 | .107 | .031 | .203 | .104 | .030 | .197 | .102 | .030 | .190 | .100 | .030 | | |
| 7.0 | .200 | .099 | .028 | .196 | .098 | .028 | .190 | .096 | .028 | .184 | .094 | .027 | .178 | .092 | .027 | | |
| 8.0 | .187 | .091 | .026 | .184 | .090 | .026 | .178 | .089 | .025 | .172 | .087 | .025 | .167 | .086 | .025 | | |
| 9.0 | .175 | .085 | .024 | .172 | .084 | .024 | .167 | .082 | .023 | .162 | .081 | .023 | .157 | .080 | .023 | | |
| 10.0 | .164 | .079 | .022 | .162 | .078 | .022 | .157 | .077 | .022 | .152 | .076 | .022 | .148 | .075 | .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 | .157 | .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 | .144 | .101 | .067 | .099 | .070 | .047 | .057 | .041 | .028 | .018 | .013 | .009 | | |
| 4.0 | .160 | .104 | .061 | .137 | .090 | .053 | .094 | .063 | .037 | .055 | .037 | .022 | .018 | .012 | .007 | | |
| 5.0 | .153 | .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 | .139 | .078 | .036 | .119 | .068 | .031 | .082 | .048 | .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 | .109 | .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 | .008 | .003 | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | | | | | | | | | |
| NAME: 2835-120D-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 | 25.1 | 26.7 | 25.4 | 26.9 | 27.1 | 25.2 | 26.7 | 25.5 | 26.9 | 27.1 |
| 3H | 26.5 | 27.9 | 26.8 | 28.1 | 28.4 | 26.8 | 28.2 | 27.1 | 28.4 | 28.7 |
| 4H | 26.9 | 28.2 | 27.2 | 28.5 | 28.7 | 27.4 | 28.7 | 27.7 | 29.0 | 29.2 |
| 6H | 27.0 | 28.2 | 27.3 | 28.5 | 28.8 | 27.7 | 29.0 | 28.1 | 29.3 | 29.6 |
| 8H | 26.9 | 28.2 | 27.3 | 28.5 | 28.8 | 27.8 | 29.1 | 28.2 | 29.4 | 29.7 |
| 12H | 26.9 | 28.1 | 27.3 | 28.4 | 28.7 | 27.9 | 29.1 | 28.2 | 29.4 | 29.7 |
| 4H 2H | 25.8 | 27.1 | 26.1 | 27.4 | 27.6 | 25.8 | 27.2 | 26.1 | 27.4 | 27.7 |
| 3H | 27.4 | 28.5 | 27.7 | 28.8 | 29.1 | 27.6 | 28.7 | 27.9 | 29.0 | 29.4 |
| 4H | 27.9 | 29.0 | 28.3 | 29.3 | 29.7 | 28.3 | 29.4 | 28.7 | 29.7 | 30.0 |
| 6H | 28.2 | 29.1 | 28.6 | 29.5 | 29.9 | 28.8 | 29.7 | 29.2 | 30.1 | 30.5 |
| 8H | 28.2 | 29.1 | 28.6 | 29.4 | 29.8 | 28.9 | 29.8 | 29.4 | 30.2 | 30.6 |
| 12H | 28.2 | 29.0 | 28.6 | 29.4 | 29.8 | 29.0 | 29.8 | 29.4 | 30.2 | 30.6 |
| 8H 4H | 28.2 | 29.1 | 28.6 | 29.5 | 29.9 | 28.5 | 29.4 | 28.9 | 29.8 | 30.2 |
| 6H | 28.6 | 29.4 | 29.1 | 29.8 | 30.2 | 29.2 | 29.9 | 29.6 | 30.3 | 30.7 |
| 8H | 28.7 | 29.4 | 29.2 | 29.8 | 30.3 | 29.4 | 30.0 | 29.8 | 30.5 | 30.9 |
| 12H | 28.7 | 29.3 | 29.2 | 29.8 | 30.2 | 29.5 | 30.1 | 30.0 | 30.5 | 31.0 |
| 12H 4H | 28.2 | 29.0 | 28.6 | 29.4 | 29.8 | 28.5 | 29.3 | 29.0 | 29.7 | 30.2 |
| 6H | 28.7 | 29.3 | 29.2 | 29.8 | 30.2 | 29.2 | 29.9 | 29.7 | 30.3 | 30.7 |
| 8H | 28.8 | 29.4 | 29.3 | 29.8 | 30.3 | 29.4 | 30.0 | 29.9 | 30.5 | 30.9 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.2 | | | | | + 0.1 / - 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, 2103 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:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

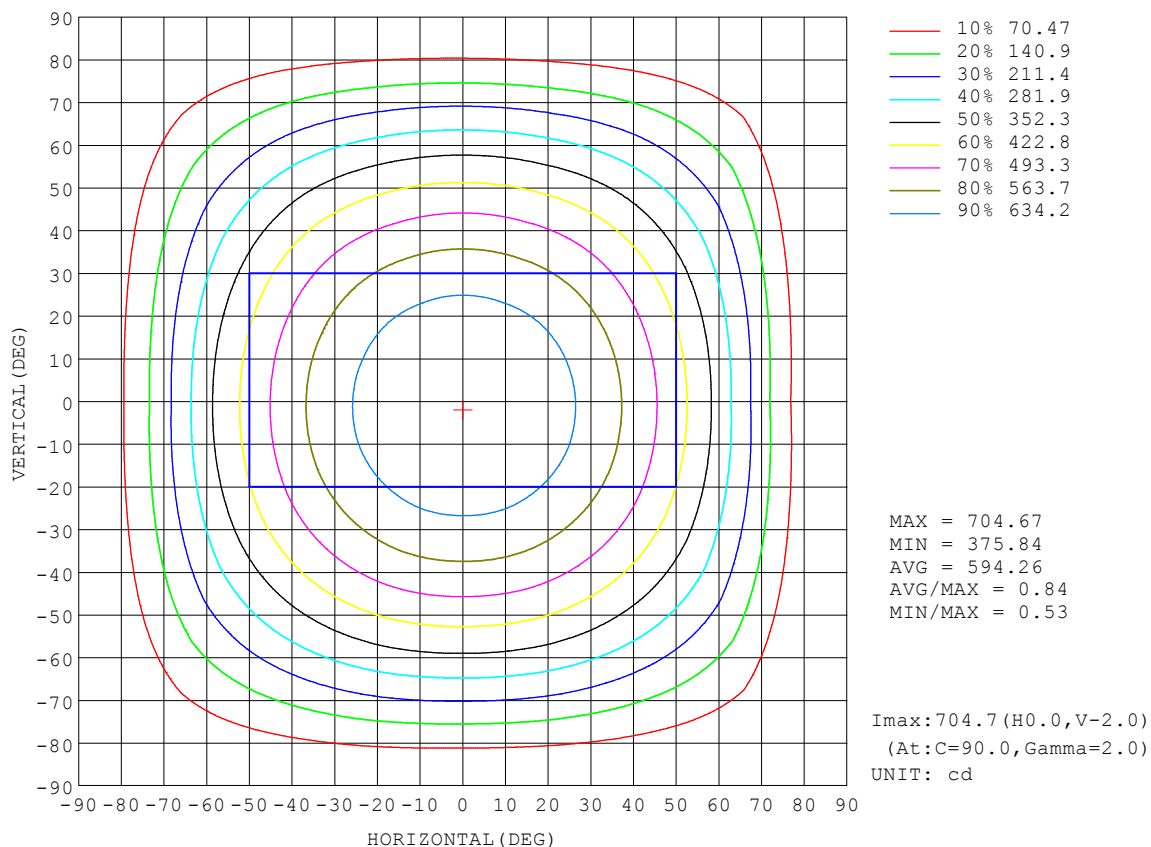
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 44 | 38 | 31 |
| 0.80 | 67 | 55 | 48 | 66 | 55 | 48 | 64 | 54 | 47 | 40 |
| 1.00 | 75 | 64 | 57 | 74 | 64 | 57 | 72 | 65 | 56 | 49 |
| 1.25 | 83 | 72 | 65 | 81 | 71 | 64 | 78 | 70 | 64 | 56 |
| 1.50 | 88 | 78 | 71 | 86 | 77 | 70 | 83 | 75 | 69 | 61 |
| 2.00 | 95 | 86 | 80 | 93 | 85 | 79 | 89 | 83 | 77 | 69 |
| 2.50 | 99 | 91 | 85 | 97 | 89 | 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:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

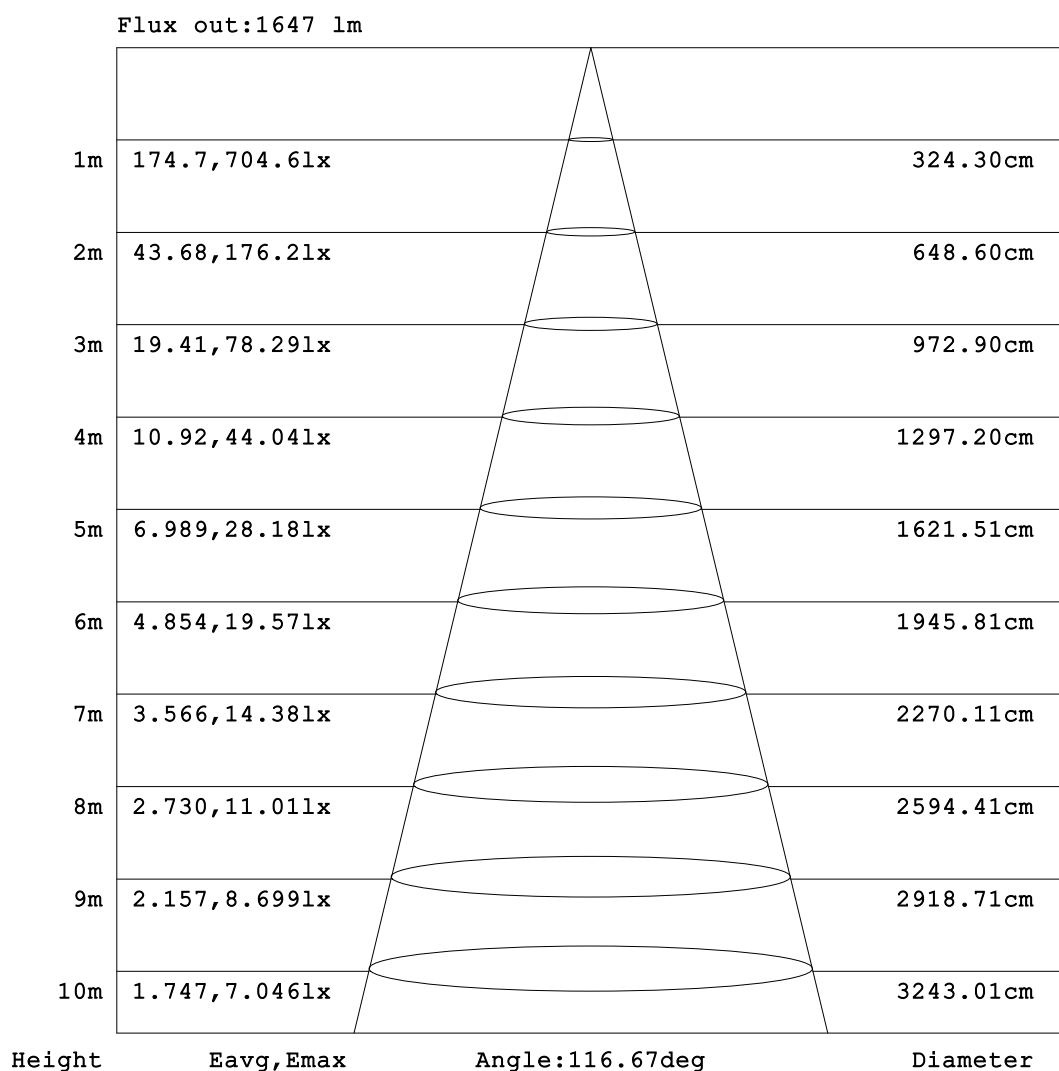


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |



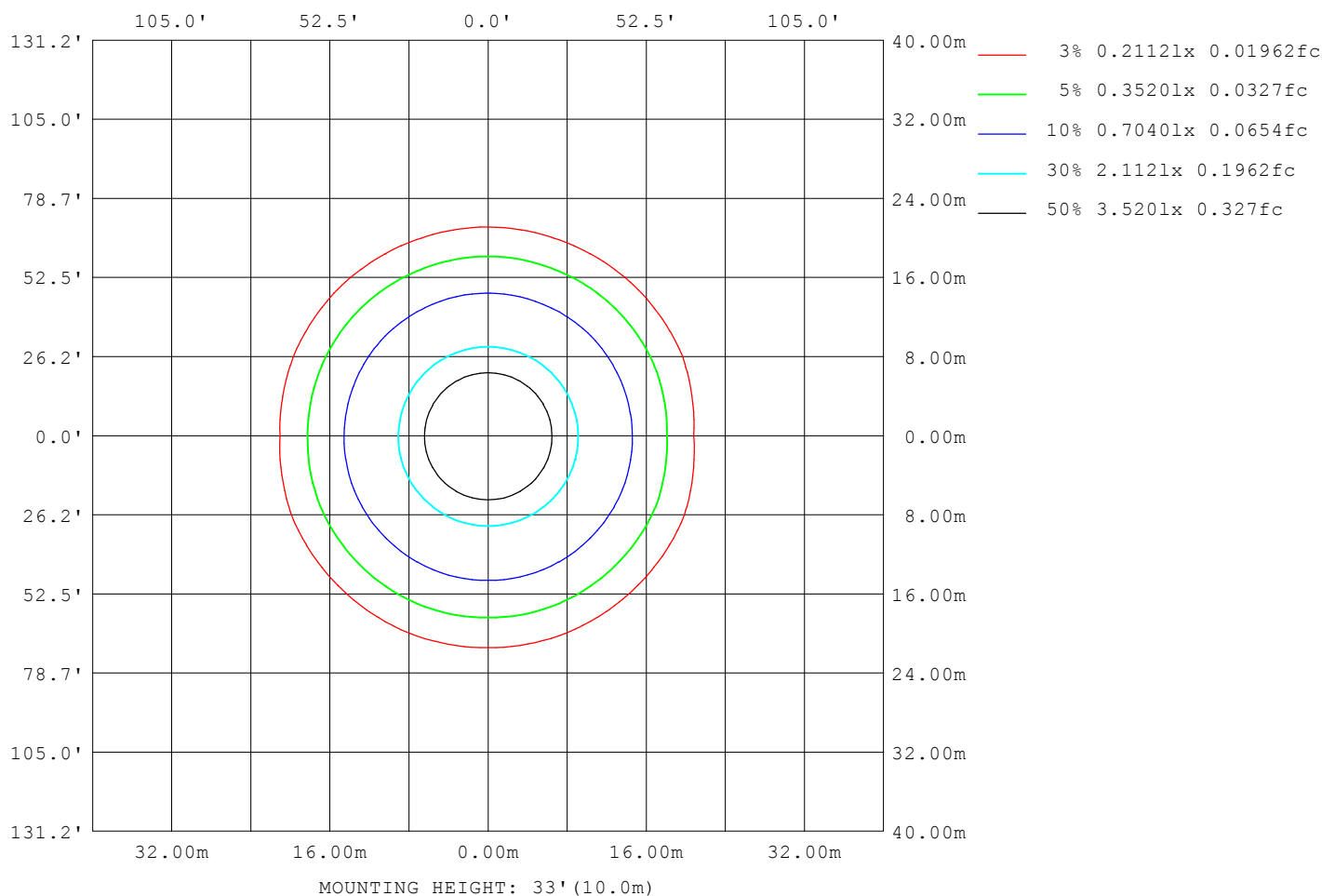
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-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:2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | |
| NAME: 2835-120D-IP20 | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: 0.010*1 | Shielding Angle: |

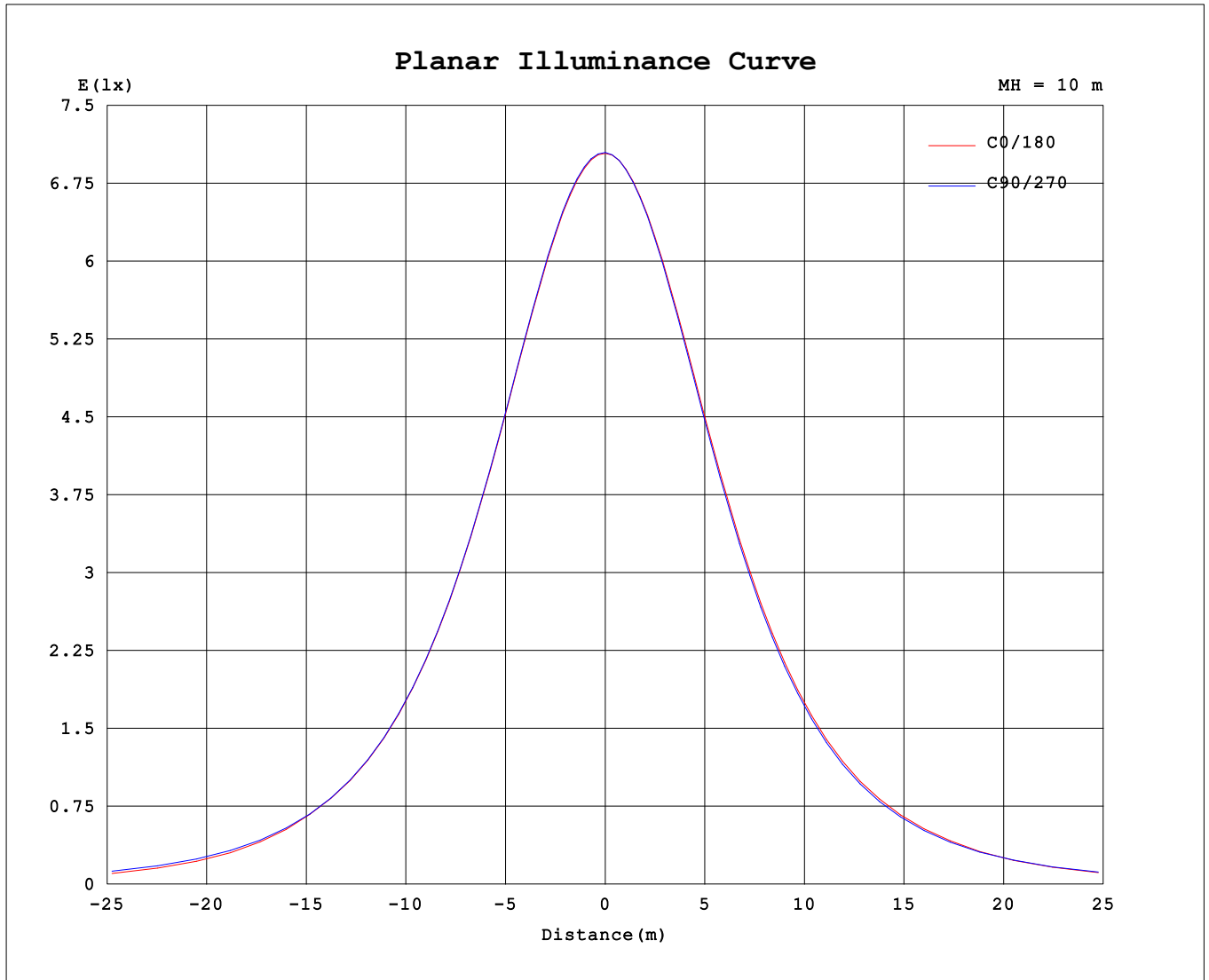
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 60271 |
| L_0~180 (75) av | 41756 |
| L_0~180 (85) av | 9113 |
| L_90~270 (65) av | 64211 |
| L_90~270 (75) av | 54704 |
| L_90~270 (85) av | 31958 |
| L_45 (65) av | 64761 |
| L_45 (75) av | 55423 |
| L_45 (85) av | 33279 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-05-05

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: 2024-05-05

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:0.9879A P:23.708W PF:1.0000 Freq:49.99Hz Lamp Flux:17.5217x120 lm | | | | | | | | | | | | | | | | | |
| NAME: 2835-120D-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 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | 704 | | | |
| 5 | 703 | 703 | 703 | 704 | 704 | 704 | 703 | 703 | 702 | 702 | 702 | 702 | 702 | 702 | 702 | 703 | | | |
| 10 | 695 | 696 | 696 | 696 | 696 | 696 | 695 | 694 | 693 | 692 | 692 | 692 | 692 | 692 | 693 | 694 | | | |
| 15 | 686 | 687 | 687 | 687 | 687 | 687 | 686 | 685 | 683 | 682 | 681 | 680 | 681 | 681 | 683 | 684 | | | |
| 20 | 665 | 667 | 667 | 667 | 666 | 667 | 665 | 664 | 662 | 660 | 659 | 658 | 658 | 658 | 661 | 663 | | | |
| 25 | 647 | 649 | 649 | 649 | 648 | 649 | 647 | 646 | 644 | 641 | 640 | 638 | 639 | 639 | 642 | 644 | | | |
| 30 | 614 | 616 | 616 | 617 | 615 | 616 | 614 | 613 | 610 | 607 | 606 | 603 | 603 | 604 | 607 | 610 | | | |
| 35 | 588 | 590 | 590 | 590 | 589 | 590 | 588 | 587 | 584 | 580 | 579 | 576 | 576 | 576 | 580 | 584 | | | |
| 40 | 542 | 545 | 544 | 545 | 543 | 544 | 543 | 541 | 538 | 534 | 533 | 529 | 529 | 529 | 534 | 538 | | | |
| 45 | 508 | 510 | 510 | 511 | 509 | 510 | 508 | 507 | 504 | 500 | 498 | 494 | 494 | 494 | 499 | 503 | | | |
| 50 | 450 | 453 | 452 | 453 | 452 | 453 | 451 | 451 | 446 | 442 | 441 | 436 | 436 | 436 | 441 | 445 | | | |
| 55 | 408 | 411 | 410 | 411 | 409 | 411 | 409 | 409 | 404 | 400 | 398 | 394 | 393 | 393 | 398 | 402 | | | |
| 60 | 327 | 342 | 340 | 342 | 341 | 343 | 341 | 341 | 336 | 332 | 330 | 325 | 325 | 324 | 329 | 333 | | | |
| 65 | 265 | 292 | 291 | 293 | 292 | 294 | 292 | 292 | 276 | 283 | 282 | 277 | 276 | 275 | 280 | 283 | | | |
| 70 | 171 | 214 | 213 | 215 | 214 | 217 | 215 | 215 | 186 | 207 | 206 | 200 | 200 | 198 | 203 | 205 | | | |
| 75 | 111 | 160 | 159 | 162 | 161 | 165 | 163 | 163 | 132 | 155 | 154 | 149 | 148 | 146 | 150 | 152 | | | |
| 80 | 31.0 | 82.5 | 82.9 | 84.7 | 84.3 | 87.4 | 86.1 | 86.0 | 63.6 | 80.3 | 79.1 | 75.9 | 74.1 | 73.2 | 75.1 | 77.2 | | | |
| 85 | 2.29 | 38.9 | 38.5 | 40.6 | 40.3 | 42.9 | 42.1 | 41.6 | 21.9 | 37.0 | 37.1 | 33.8 | 32.9 | 31.4 | 33.5 | 34.3 | | | |
| 90 | 0.39 | 2.98 | 2.95 | 2.86 | 2.41 | 3.25 | 3.03 | 3.15 | 0.44 | 2.69 | 3.00 | 2.52 | 2.09 | 2.20 | 2.60 | 2.57 | | | |
| 95 | 0.39 | 0.40 | 1.24 | 1.15 | 0.88 | 1.12 | 1.18 | 0.49 | 0.45 | 0.47 | 1.21 | 1.46 | 1.27 | 1.41 | 1.21 | 0.48 | | | |
| 100 | 0.52 | 0.51 | 0.48 | 0.50 | 0.54 | 0.52 | 0.49 | 0.53 | 0.58 | 0.56 | 0.58 | 0.55 | 0.56 | 0.53 | 0.57 | 0.56 | | | |
| 105 | 0.62 | 0.62 | 0.58 | 0.58 | 0.56 | 0.60 | 0.60 | 0.63 | 0.68 | 0.65 | 0.67 | 0.64 | 0.65 | 0.61 | 0.66 | 0.65 | | | |
| 110 | 0.78 | 0.78 | 0.73 | 0.73 | 0.72 | 0.75 | 0.76 | 0.80 | 0.83 | 0.80 | 0.83 | 0.79 | 0.79 | 0.76 | 0.80 | 0.80 | | | |
| 115 | 0.89 | 0.88 | 0.83 | 0.83 | 0.82 | 0.86 | 0.86 | 0.90 | 0.93 | 0.90 | 0.93 | 0.89 | 0.88 | 0.85 | 0.90 | 0.89 | | | |
| 120 | 1.06 | 1.05 | 0.99 | 0.99 | 0.97 | 1.02 | 1.02 | 1.06 | 1.09 | 1.06 | 1.07 | 1.04 | 1.04 | 1.01 | 1.05 | 1.05 | | | |
| 125 | 1.17 | 1.16 | 1.10 | 1.10 | 1.09 | 1.14 | 1.13 | 1.18 | 1.20 | 1.17 | 1.18 | 1.15 | 1.15 | 1.11 | 1.15 | 1.15 | | | |
| 130 | 1.33 | 1.32 | 1.26 | 1.26 | 1.25 | 1.31 | 1.29 | 1.34 | 1.36 | 1.32 | 1.34 | 1.31 | 1.30 | 1.27 | 1.30 | 1.30 | | | |
| 135 | 1.43 | 1.42 | 1.36 | 1.36 | 1.35 | 1.41 | 1.40 | 1.44 | 1.46 | 1.43 | 1.44 | 1.42 | 1.40 | 1.36 | 1.40 | 1.40 | | | |
| 140 | 1.57 | 1.56 | 1.50 | 1.51 | 1.50 | 1.57 | 1.55 | 1.59 | 1.61 | 1.57 | 1.58 | 1.56 | 1.56 | 1.51 | 1.54 | 1.54 | | | |
| 145 | 1.67 | 1.65 | 1.60 | 1.61 | 1.61 | 1.67 | 1.64 | 1.68 | 1.71 | 1.66 | 1.69 | 1.66 | 1.65 | 1.60 | 1.64 | 1.63 | | | |
| 150 | 1.79 | 1.79 | 1.73 | 1.75 | 1.75 | 1.81 | 1.77 | 1.82 | 1.83 | 1.80 | 1.81 | 1.79 | 1.79 | 1.74 | 1.77 | 1.76 | | | |
| 155 | 1.86 | 1.86 | 1.82 | 1.83 | 1.84 | 1.90 | 1.86 | 1.90 | 1.90 | 1.87 | 1.90 | 1.88 | 1.88 | 1.82 | 1.85 | 1.84 | | | |
| 160 | 1.97 | 1.98 | 1.94 | 1.97 | 1.98 | 2.02 | 1.97 | 2.00 | 2.00 | 1.98 | 2.00 | 2.00 | 2.02 | 1.94 | 1.97 | 1.95 | | | |
| 165 | 2.04 | 2.05 | 2.02 | 2.06 | 2.06 | 2.10 | 2.04 | 2.07 | 2.07 | 2.05 | 2.07 | 2.07 | 2.10 | 2.02 | 2.04 | 2.02 | | | |
| 170 | 2.12 | 2.15 | 2.12 | 2.16 | 2.17 | 2.19 | 2.13 | 2.16 | 2.15 | 2.12 | 2.16 | 2.15 | 2.20 | 2.13 | 2.15 | 2.11 | | | |
| 175 | 2.16 | 2.20 | 2.18 | 2.22 | 2.22 | 2.22 | 2.18 | 2.20 | 2.20 | 2.17 | 2.20 | 2.20 | 2.24 | 2.18 | 2.19 | 2.17 | | | |
| 180 | 2.22 | 2.22 | 2.23 | 2.25 | 2.28 | 2.26 | 2.23 | 2.23 | 2.22 | 2.22 | 2.23 | 2.25 | 2.27 | 2.25 | 2.24 | 2.22 | | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-05

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.450
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Remarks: