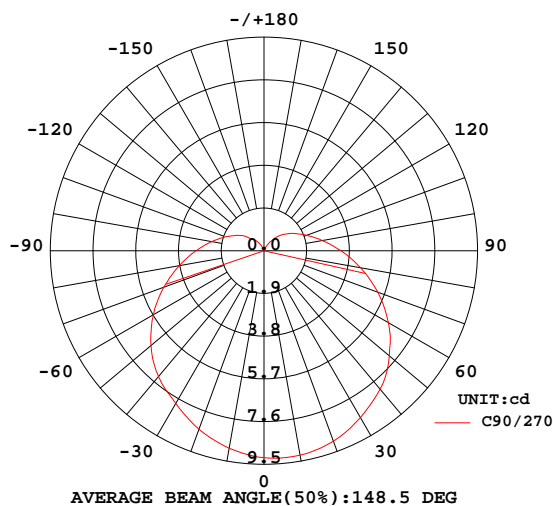


LUMINAIRE PHOTOMETRIC TEST REPORT

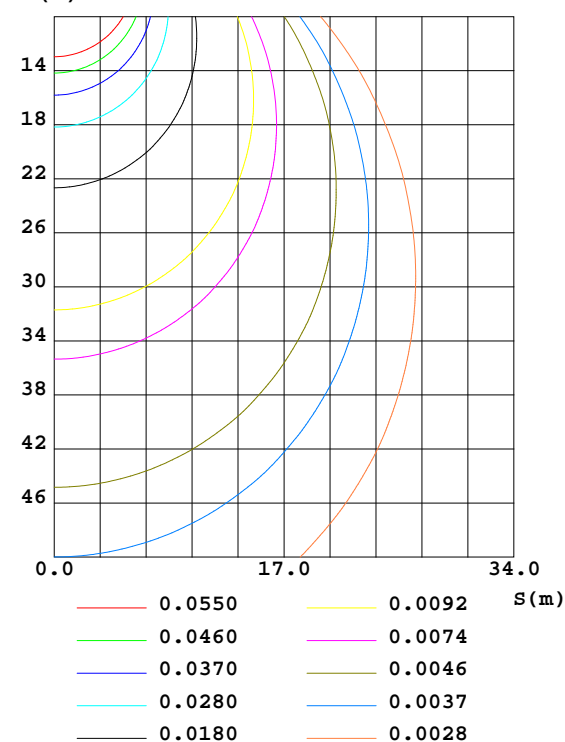
| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SPEC.: |
| MFR.: | SUR.:16*1000mm |
| | PROTECTION ANGLE:/ |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 7.80 lm/W |
|------------------|------|------------------|---------|-------------------|----------|----------------|
| MODEL | 5050 | Imax(cd) | 9.265 | S/MH(C0/180) | 1.21 | |
| NOMINAL POWER(W) | 4.73 | LOR(%) | 123.0 | S/MH(C90/270) | 1.28 | |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 36.912 | η UP,DN(C0-180) | 7.3,51.5 | |
| NOMINAL FLUX(lm) | 30 | CIE CLASS | SEMI-D. | η UP,DN(C180-360) | 8.4,55.8 | |
| LAMPS INSIDE | 1 | η up(%) | 15.7 | CIBSE SHR NOM | 1.50 | |
| TEST VOLTAGE(V) | 24 | η down(%) | 107.3 | CIBSE SHR MAX | 1.50 | |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | Φ lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------------|
| 10 | 8.993 | 8.903 | 8.920 | 8.971 | 9.035 | 9.191 | 9.231 | 9.119 | 0- 10 | 0.8711 | 0.8711 | 2.36,2.9 |
| 20 | 8.400 | 8.327 | 8.452 | 8.446 | 8.484 | 8.858 | 9.019 | 8.718 | 10- 20 | 2.499 | 3.370 | 9.13,11.2 |
| 30 | 7.460 | 7.546 | 7.843 | 7.708 | 7.602 | 8.237 | 8.571 | 8.042 | 20- 30 | 3.809 | 7.179 | 19.4,23.9 |
| 40 | 6.250 | 6.676 | 7.301 | 6.847 | 6.434 | 7.397 | 8.036 | 7.178 | 30- 40 | 4.671 | 11.85 | 32.1,39.5 |
| 50 | 4.896 | 5.712 | 6.562 | 5.909 | 5.103 | 6.445 | 7.282 | 6.215 | 40- 50 | 5.052 | 16.90 | 45.8,56.3 |
| 60 | 3.456 | 4.707 | 5.677 | 4.936 | 3.686 | 5.389 | 6.386 | 5.157 | 50- 60 | 4.926 | 21.83 | 59.1,72.8 |
| 70 | 2.023 | 3.667 | 4.742 | 3.918 | 2.254 | 4.286 | 5.384 | 4.022 | 60- 70 | 4.368 | 26.20 | 71,87.3 |
| 80 | 0.6026 | 2.686 | 3.823 | 2.929 | 0.8374 | 3.216 | 4.359 | 2.962 | 70- 80 | 3.488 | 29.69 | 80.4,99 |
| 90 | 0 | 1.906 | 3.021 | 2.017 | 0 | 2.302 | 3.423 | 2.087 | 80- 90 | 2.509 | 32.20 | 87.2,107 |
| 100 | 0 | 1.369 | 2.373 | 1.297 | 0 | 1.393 | 2.637 | 1.503 | 90-100 | 1.786 | 33.98 | 92.1,113 |
| 110 | 0 | 0.9933 | 1.811 | 0.8477 | 0 | 0.9734 | 2.016 | 1.118 | 100-110 | 1.214 | 35.20 | 95.3,117 |
| 120 | 0 | 0.7073 | 1.383 | 0.5143 | 0 | 0.6150 | 1.541 | 0.8415 | 110-120 | 0.8163 | 36.01 | 97.6,120 |
| 130 | 0 | 0.4760 | 0.9268 | 0.2081 | 0 | 0.2917 | 1.144 | 0.6237 | 120-130 | 0.5046 | 36.52 | 98.9,122 |
| 140 | 0 | 0.2548 | 0.6245 | 0.0375 | 0 | 0.0841 | 0.7039 | 0.4041 | 130-140 | 0.2612 | 36.78 | 99.6,123 |
| 150 | 0 | 0.1040 | 0.3141 | 0 | 0 | 0 | 0.2911 | 0.2039 | 140-150 | 0.1066 | 36.88 | 99.9,123 |
| 160 | 0 | 0.0000 | 0 | 0 | 0 | 0 | 0.0081 | 0.0666 | 150-160 | 0.0268 | 36.91 | 100,123 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0.0011 | 36.91 | 100,123 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 36.91 | 100,123 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

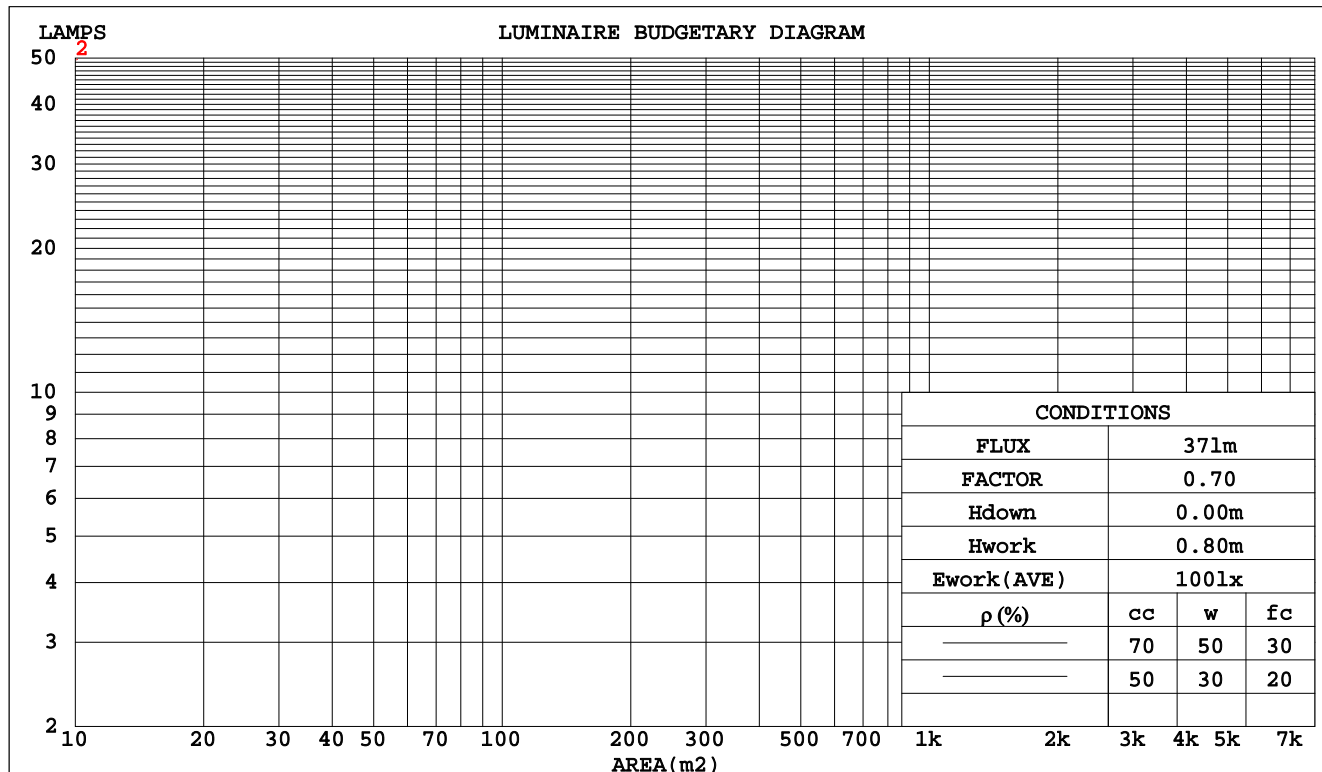
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SPEC.: |
| MFR.: | SUR.:16*1000mm |
| | PROTECTION 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 | 1.43 | 1.43 | 1.43 | 1.38 | 1.38 | 1.38 | 1.28 | 1.28 | 1.28 | 1.19 | 1.19 | 1.19 | 1.11 | 1.11 | 1.11 | 1.07 |
| 1.0 | 1.20 | 1.13 | 1.07 | 1.15 | 1.09 | 1.04 | 1.07 | 1.02 | .98 | .00 | .96 | .92 | .93 | .90 | .87 | .83 |
| 2.0 | 1.03 | .93 | .85 | .99 | .90 | .83 | .92 | .85 | .78 | .85 | .79 | .74 | .79 | .75 | .70 | .67 |
| 3.0 | .89 | .78 | .69 | .86 | .76 | .68 | .80 | .71 | .64 | .74 | .67 | .61 | .69 | .63 | .58 | .55 |
| 4.0 | .78 | .67 | .58 | .76 | .65 | .57 | .71 | .61 | .54 | .66 | .58 | .52 | .61 | .55 | .49 | .46 |
| 5.0 | .70 | .58 | .49 | .67 | .56 | .48 | .63 | .54 | .46 | .59 | .51 | .44 | .55 | .48 | .43 | .39 |
| 6.0 | .62 | .51 | .43 | .60 | .50 | .42 | .57 | .47 | .40 | .53 | .45 | .39 | .50 | .43 | .37 | .34 |
| 7.0 | .56 | .45 | .37 | .55 | .44 | .37 | .51 | .42 | .35 | .48 | .40 | .34 | .45 | .38 | .33 | .30 |
| 8.0 | .51 | .41 | .33 | .50 | .40 | .33 | .47 | .38 | .31 | .44 | .36 | .30 | .41 | .34 | .29 | .27 |
| 9.0 | .47 | .37 | .30 | .46 | .36 | .29 | .43 | .34 | .28 | .41 | .33 | .27 | .38 | .31 | .26 | .24 |
| 10.0 | .43 | .33 | .27 | .42 | .33 | .26 | .40 | .31 | .25 | .38 | .30 | .25 | .35 | .29 | .24 | .21 |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

WEC AND CCEC

| | |
|--|---------------------------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SPEC.: SERIAL No.: |
| MFR.: | SUR.:16*1000mm PROTECTION ANGLE: / |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| ρw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | |
| ρfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | |
| RCR | RCR:Room Cavity Ratio | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .464 | .264 | .084 | .450 | .257 | .082 | .425 | .244 | .078 | .401 | .231 | .074 | .379 | .220 | .071 | | |
| 2.0 | .406 | .222 | .068 | .393 | .217 | .067 | .370 | .206 | .064 | .349 | .196 | .061 | .329 | .186 | .059 | | |
| 3.0 | .362 | .193 | .058 | .351 | .188 | .057 | .330 | .179 | .054 | .311 | .170 | .052 | .293 | .162 | .050 | | |
| 4.0 | .327 | .170 | .050 | .317 | .166 | .049 | .298 | .158 | .047 | .281 | .151 | .045 | .264 | .144 | .044 | | |
| 5.0 | .298 | .152 | .044 | .289 | .148 | .043 | .272 | .141 | .042 | .256 | .135 | .040 | .241 | .129 | .039 | | |
| 6.0 | .273 | .137 | .039 | .265 | .134 | .039 | .249 | .128 | .037 | .235 | .122 | .036 | .222 | .117 | .035 | | |
| 7.0 | .252 | .125 | .035 | .245 | .122 | .035 | .231 | .117 | .034 | .218 | .112 | .032 | .205 | .107 | .031 | | |
| 8.0 | .234 | .114 | .032 | .227 | .112 | .032 | .214 | .107 | .031 | .202 | .103 | .030 | .191 | .098 | .029 | | |
| 9.0 | .218 | .106 | .029 | .212 | .103 | .029 | .200 | .099 | .028 | .189 | .095 | .027 | .179 | .091 | .026 | | |
| 10.0 | .204 | .098 | .027 | .199 | .096 | .027 | .188 | .092 | .026 | .178 | .088 | .025 | .168 | .084 | .024 | | |

| 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 | .354 | .354 | .354 | .303 | .303 | .303 | .207 | .207 | .207 | .119 | .119 | .119 | .038 | .038 | .038 | |
| 1.0 | .348 | .312 | .280 | .298 | .268 | .241 | .204 | .184 | .166 | .117 | .107 | .097 | .038 | .034 | .031 | |
| 2.0 | .340 | .284 | .237 | .291 | .244 | .204 | .199 | .169 | .143 | .115 | .098 | .084 | .037 | .032 | .027 | |
| 3.0 | .330 | .263 | .209 | .283 | .227 | .182 | .194 | .158 | .127 | .112 | .092 | .075 | .036 | .030 | .025 | |
| 4.0 | .321 | .247 | .192 | .275 | .214 | .166 | .189 | .149 | .117 | .109 | .087 | .069 | .035 | .028 | .023 | |
| 5.0 | .311 | .235 | .179 | .267 | .204 | .156 | .184 | .142 | .110 | .107 | .083 | .065 | .034 | .027 | .022 | |
| 6.0 | .302 | .225 | .170 | .260 | .195 | .148 | .179 | .137 | .105 | .104 | .080 | .062 | .034 | .026 | .021 | |
| 7.0 | .293 | .217 | .164 | .252 | .188 | .143 | .174 | .132 | .101 | .101 | .078 | .060 | .033 | .025 | .020 | |
| 8.0 | .285 | .210 | .159 | .245 | .182 | .138 | .170 | .128 | .098 | .099 | .076 | .059 | .032 | .025 | .019 | |
| 9.0 | .277 | .204 | .155 | .239 | .177 | .135 | .166 | .125 | .096 | .096 | .074 | .057 | .031 | .024 | .019 | |
| 10.0 | .270 | .199 | .152 | .233 | .173 | .132 | .162 | .122 | .094 | .094 | .072 | .056 | .031 | .024 | .019 | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

Uncorrected UGR Table

| | | | | | | | | | | |
|--|-----|---------------|-----|-----|-----|------------------|------|--------------------|------|------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | | | | | | WEIGHT:0.490KG/M | | | | |
| DIM.: 11.5*29mm | | | | | | SPEC.: | | SERIAL No.: | | |
| MFR.: | | | | | | SUR.:16*1000mm | | PROTECTION 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 | | | | |
| x = 2H y = 2H | | | | | | Viewed endwise | | | | |
| 3H | | | | | | 10.8 | 12.2 | 11.2 | 12.7 | 13.1 |
| 4H | | | | | | 13.3 | 14.6 | 13.7 | 15.0 | 15.5 |
| 6H | | | | | | 14.6 | 15.9 | 15.1 | 16.3 | 16.9 |
| 8H | | | | | | 16.1 | 17.3 | 16.6 | 17.8 | 18.3 |
| 12H | | | | | | 16.9 | 18.0 | 17.4 | 18.6 | 19.1 |
| 12H | | | | | | 17.8 | 18.9 | 18.4 | 19.5 | 20.0 |
| 4H 2H | | | | | | 11.3 | 12.6 | 11.8 | 13.1 | 13.6 |
| 3H | | | | | | 14.1 | 15.2 | 14.6 | 15.7 | 16.3 |
| 4H | | | | | | 15.6 | 16.6 | 16.2 | 17.2 | 17.8 |
| 6H | | | | | | 17.3 | 18.2 | 17.9 | 18.8 | 19.4 |
| 8H | | | | | | 18.2 | 19.1 | 18.8 | 19.7 | 20.3 |
| 12H | | | | | | 19.3 | 20.1 | 19.9 | 20.7 | 21.4 |
| 8H 4H | | | | | | 15.9 | 16.8 | 16.5 | 17.4 | 18.0 |
| 6H | | | | | | 17.9 | 18.6 | 18.5 | 19.3 | 20.0 |
| 8H | | | | | | 19.1 | 19.7 | 19.7 | 20.4 | 21.1 |
| 12H | | | | | | 20.4 | 21.0 | 21.1 | 21.6 | 22.4 |
| 12H 4H | | | | | | 15.9 | 16.7 | 16.6 | 17.3 | 18.0 |
| 6H | | | | | | 18.0 | 18.7 | 18.7 | 19.3 | 20.0 |
| 8H | | | | | | 19.3 | 19.9 | 19.9 | 20.5 | 21.3 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | | + 0.1 / - 0.2 | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | | + 0.2 / - 0.3 | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | | + 0.2 / - 0.4 | | | | + 0.2 / - 0.3 | | | | |

CIE Pub.117 Corrected 30.00 lm Total Lamp Luminous Flux.(8log(F/F0) = -12.2)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SERIAL No.: |
| MFR.: | PROTECTION ANGLE:/ |

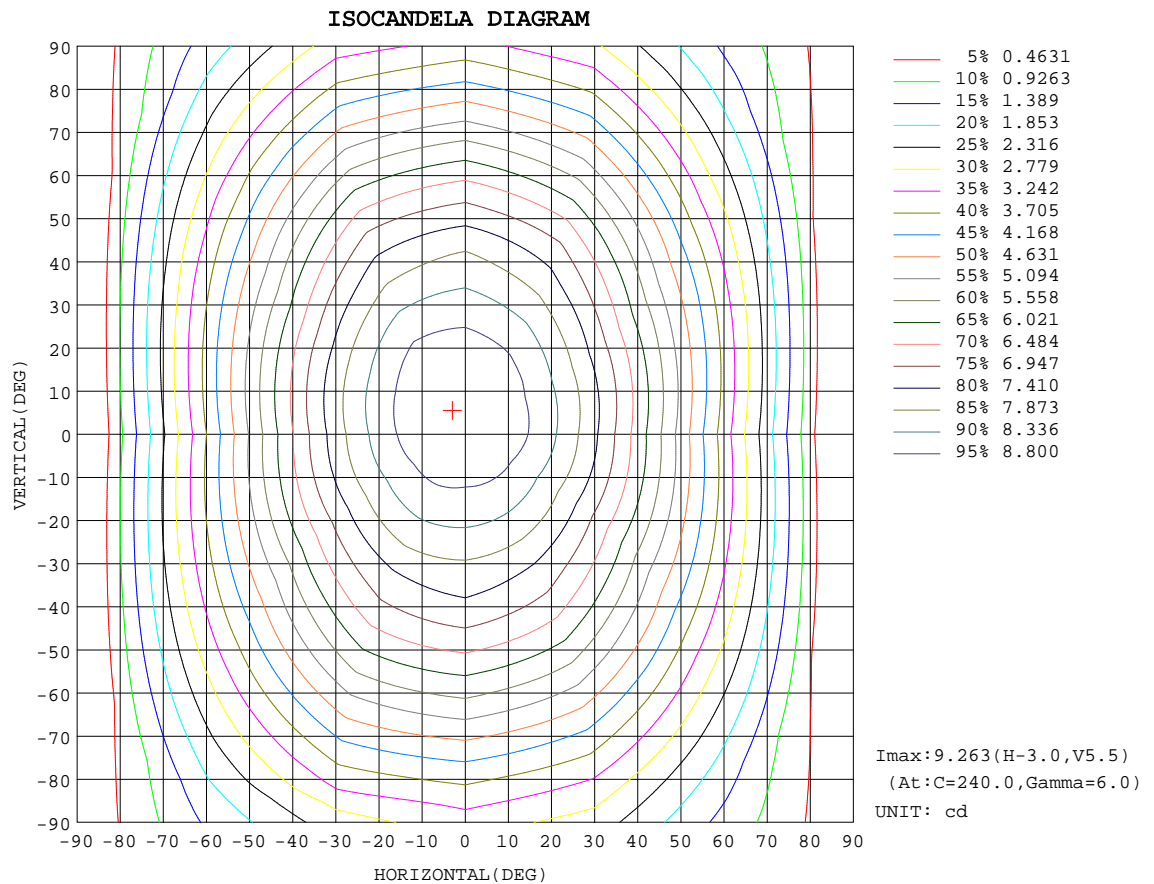
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5 | | | | | | | | | |
| k = 0.60 | 61 | 46 | 37 | 60 | 46 | 37 | 58 | 45 | 37 | 29 |
| 0.80 | 73 | 57 | 47 | 71 | 56 | 47 | 68 | 55 | 46 | 37 |
| 1.00 | 82 | 67 | 57 | 80 | 66 | 56 | 77 | 67 | 55 | 45 |
| 1.25 | 91 | 76 | 66 | 88 | 74 | 65 | 84 | 72 | 63 | 52 |
| 1.50 | 97 | 83 | 72 | 94 | 81 | 71 | 89 | 78 | 69 | 57 |
| 2.00 | 106 | 93 | 83 | 103 | 91 | 82 | 97 | 87 | 79 | 66 |
| 2.50 | 112 | 99 | 90 | 108 | 97 | 88 | 101 | 92 | 85 | 71 |
| 3.00 | 116 | 105 | 96 | 112 | 102 | 94 | 105 | 97 | 90 | 75 |
| 4.00 | 122 | 112 | 105 | 117 | 109 | 102 | 110 | 103 | 97 | 81 |
| 5.00 | 125 | 117 | 110 | 121 | 114 | 107 | 113 | 107 | 102 | 85 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | | | | | | | |
| Suspended | | | | | | | | | | |
| SHRNOM = 1.25 | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SERIAL No.: |
| MFR.: | SUR.:16*1000mm |
| | PROTECTION ANGLE:/ |

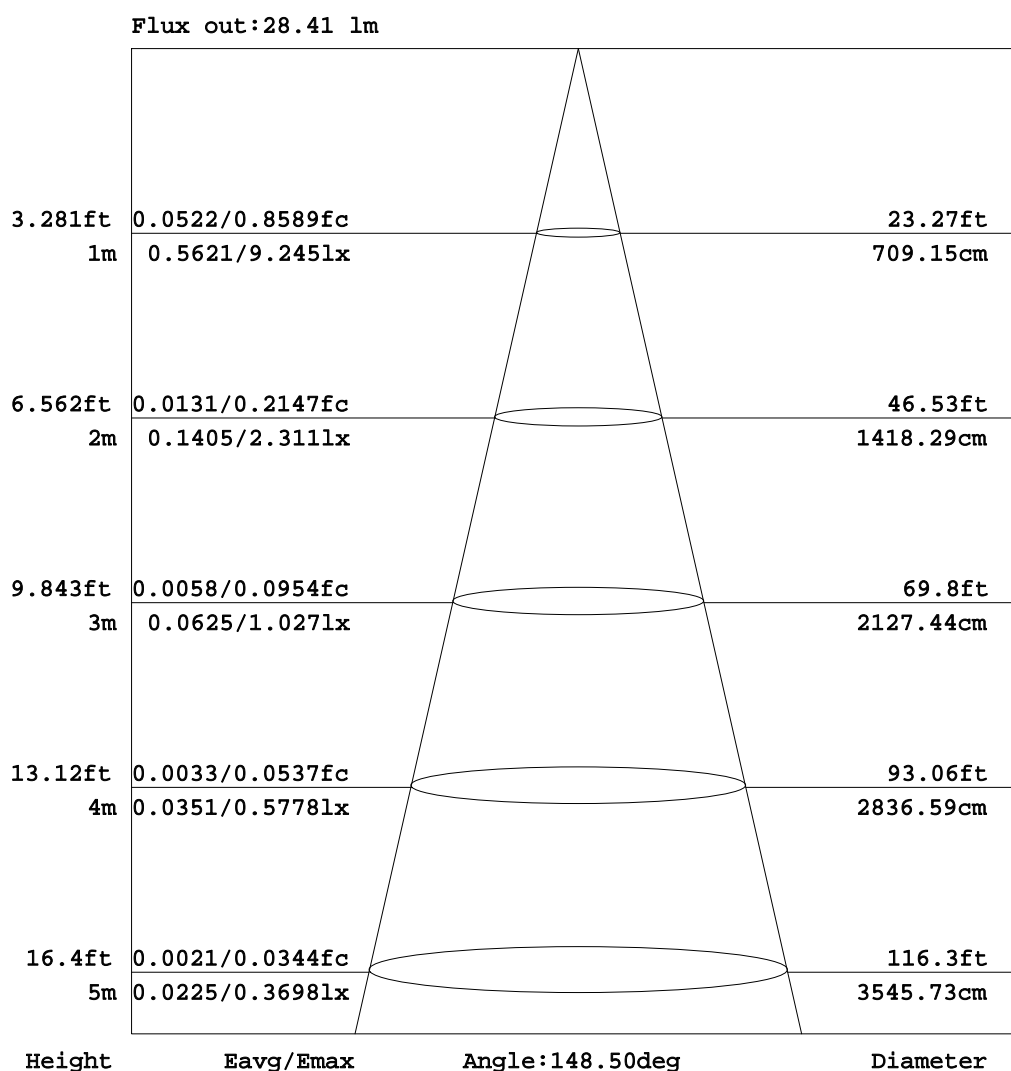


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|----------------|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | 5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SPEC.: | SERIAL No.: |
| MFR.: | SUR.:16*1000mm | PROTECTION ANGLE:/ |



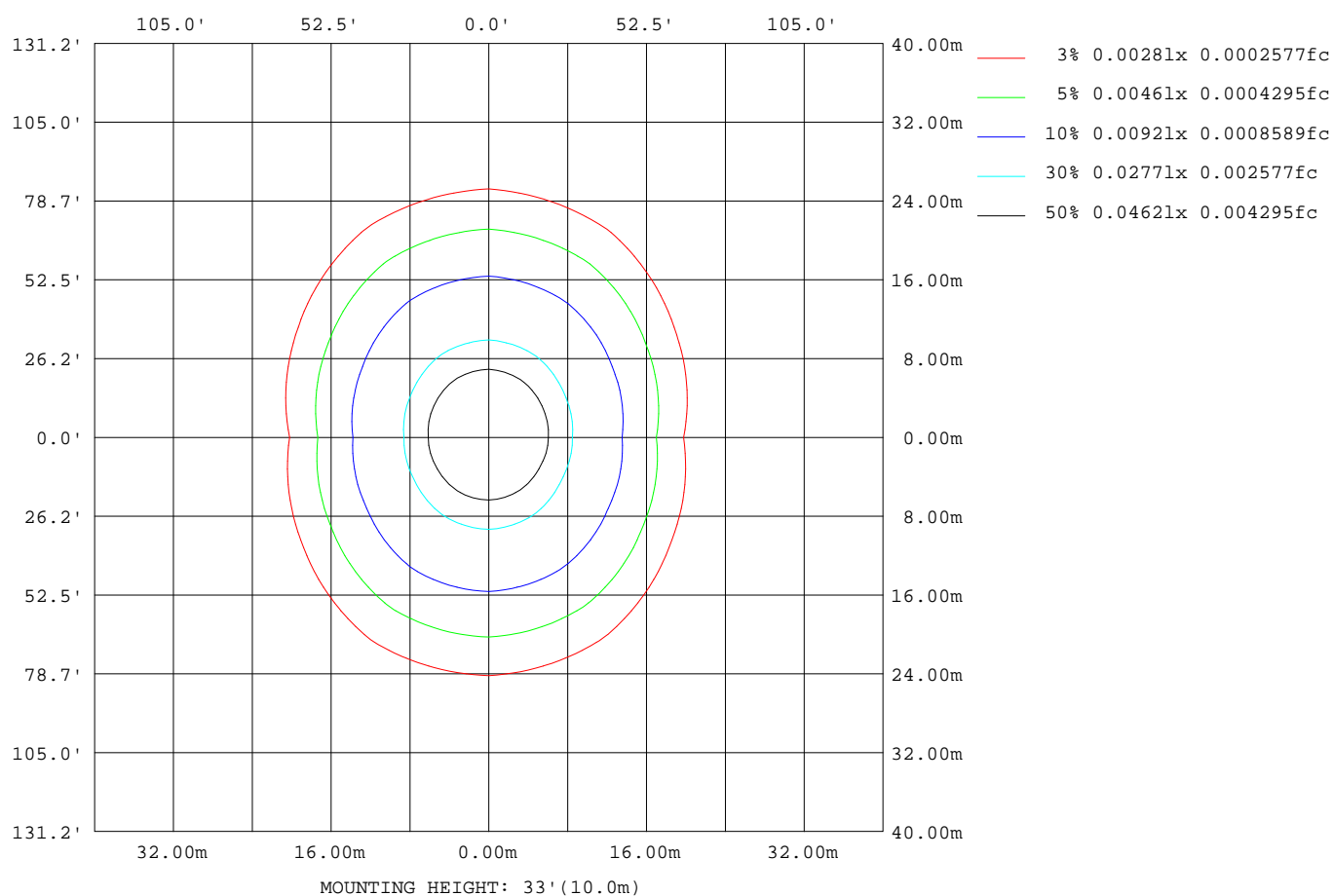
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SERIAL No.: |
| MFR.: | PROTECTION ANGLE:/ |
| SPEC.: | SUR.:16*1000mm |



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SERIAL No.: |
| MFR.: | PROTECTION ANGLE:/ |

| Parameter description for average Luminance | Symbol | Value | Unit |
|--|--------|---------------|----------|
| Luminance in Azimuth Plane | Bc | refer Table 2 | cd/sq.m. |
| Intensity at angle Gamma in given azimuth plane | I | from data | cd/klm |
| Number of lamps | N | 1 | |
| Output of each lamp(initial lumens as specified) | F | 30 | lm |
| Multiplying factor | K | 1 | |
| Luminous area in horizontal plane used in calculations | A | 0.016 | sq.m. |
| Angle to the downward vertical from light centre | Gamma | from data | deg |

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

| G | C plane(deg) | | | | | | | | | | | | | | | | | | |
|-----|--------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| deg | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| 55 | 454 | 468 | 487 | 512 | 550 | 588 | 624 | 646 | 660 | 667 | 668 | 661 | 645 | 612 | 574 | 537 | 507 | 487 | 480 |
| 60 | 432 | 456 | 485 | 520 | 567 | 614 | 657 | 683 | 701 | 710 | 711 | 702 | 683 | 643 | 598 | 551 | 507 | 475 | 461 |
| 65 | 404 | 442 | 485 | 533 | 594 | 653 | 706 | 739 | 761 | 772 | 773 | 761 | 737 | 689 | 632 | 573 | 511 | 463 | 439 |
| 70 | 370 | 428 | 490 | 557 | 637 | 715 | 783 | 826 | 854 | 867 | 868 | 854 | 823 | 761 | 688 | 609 | 520 | 449 | 412 |
| 75 | 317 | 412 | 509 | 608 | 721 | 828 | 921 | 979 | 1015 | 1032 | 1034 | 1015 | 972 | 888 | 787 | 676 | 543 | 435 | 375 |
| 80 | 217 | 390 | 560 | 727 | 904 | 1067 | 1206 | 1295 | 1351 | 1376 | 1377 | 1345 | 1278 | 1155 | 1002 | 831 | 603 | 412 | 301 |
| 85 | 4 | 401 | 779 | 1140 | 1504 | 1832 | 2107 | 2287 | 2399 | 2443 | 2421 | 2333 | 2179 | 1950 | 1662 | 1323 | 806 | 358 | 88 |

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

| CIBSE Category | Gamma (deg) | Average Luminance | | Patch Luminance | |
|-------------------|----------------|-----------------------|----------------------|---------------------|----------------------|
| | | maximum calculated | specified maximum | maximum measured | specified maximum |
| Category 1 | 55 to 90 | 2443 | 200 | --- | 500 |
| Category 2 | 65 to 90 | 2443 | 200 | --- | 500 |
| Category 3 | 75 to 90 | 2443 | 200 | --- | 500 |

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | |
|--|--------------------|
| NAME: C-SFR-F21S-HB-D24CV-RGBW(2700K)-56-5050-1M-B | WEIGHT:0.490KG/M |
| DIM.: 11.5*29mm | SERIAL No.: |
| MFR.: | PROTECTION ANGLE:/ |
| SUR.:16*1000mm | |

Table--1

UNIT: cd

| C(DEG) γ (DEG) | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | | | | | | |
| 5 | 9.17 | 9.13 | 9.12 | 9.12 | 9.14 | 9.16 | 9.19 | 9.22 | 9.25 | 9.25 | 9.22 | 9.19 | | | | | | |
| 10 | 8.99 | 8.91 | 8.90 | 8.92 | 8.96 | 8.99 | 9.03 | 9.14 | 9.25 | 9.23 | 9.16 | 9.07 | | | | | | |
| 15 | 8.80 | 8.70 | 8.71 | 8.75 | 8.78 | 8.80 | 8.86 | 9.02 | 9.19 | 9.17 | 9.07 | 8.92 | | | | | | |
| 20 | 8.40 | 8.28 | 8.37 | 8.45 | 8.47 | 8.43 | 8.48 | 8.73 | 8.99 | 9.02 | 8.85 | 8.58 | | | | | | |
| 25 | 8.05 | 7.96 | 8.12 | 8.22 | 8.22 | 8.12 | 8.16 | 8.47 | 8.83 | 8.86 | 8.65 | 8.31 | | | | | | |
| 30 | 7.46 | 7.41 | 7.68 | 7.84 | 7.82 | 7.60 | 7.60 | 8.00 | 8.48 | 8.57 | 8.29 | 7.79 | | | | | | |
| 35 | 7.00 | 7.00 | 7.38 | 7.63 | 7.51 | 7.21 | 7.16 | 7.63 | 8.20 | 8.35 | 8.02 | 7.40 | | | | | | |
| 40 | 6.25 | 6.36 | 6.99 | 7.30 | 7.10 | 6.59 | 6.43 | 7.01 | 7.78 | 8.04 | 7.59 | 6.76 | | | | | | |
| 45 | 5.72 | 5.92 | 6.69 | 7.03 | 6.84 | 6.14 | 5.92 | 6.56 | 7.51 | 7.78 | 7.31 | 6.31 | | | | | | |
| 50 | 4.90 | 5.24 | 6.18 | 6.56 | 6.36 | 5.46 | 5.10 | 5.86 | 7.03 | 7.28 | 6.82 | 5.61 | | | | | | |
| 55 | 4.31 | 4.81 | 5.82 | 6.21 | 6.01 | 5.02 | 4.55 | 5.39 | 6.67 | 6.94 | 6.45 | 5.15 | | | | | | |
| 60 | 3.46 | 4.16 | 5.25 | 5.68 | 5.46 | 4.41 | 3.69 | 4.73 | 6.05 | 6.39 | 5.82 | 4.49 | | | | | | |
| 65 | 2.87 | 3.72 | 4.88 | 5.31 | 5.08 | 3.98 | 3.11 | 4.27 | 5.62 | 5.99 | 5.41 | 4.01 | | | | | | |
| 70 | 2.02 | 3.05 | 4.28 | 4.74 | 4.50 | 3.33 | 2.25 | 3.58 | 5.00 | 5.38 | 4.77 | 3.27 | | | | | | |
| 75 | 1.46 | 2.62 | 3.90 | 4.37 | 4.12 | 2.90 | 1.69 | 3.13 | 4.57 | 4.96 | 4.36 | 2.80 | | | | | | |
| 80 | 0.60 | 2.02 | 3.35 | 3.82 | 3.55 | 2.31 | 0.84 | 2.47 | 3.96 | 4.36 | 3.76 | 2.16 | | | | | | |
| 85 | 0.04 | 1.67 | 3.02 | 3.49 | 3.18 | 1.93 | 0.27 | 2.09 | 3.57 | 3.97 | 3.38 | 1.78 | | | | | | |
| 90 | 0.00 | 1.24 | 2.57 | 3.02 | 2.58 | 1.46 | 0.00 | 1.57 | 3.03 | 3.42 | 2.86 | 1.31 | | | | | | |
| 95 | 0.00 | 1.04 | 2.31 | 2.75 | 2.36 | 1.21 | 0.00 | 1.31 | 2.70 | 3.09 | 2.56 | 1.08 | | | | | | |
| 100 | 0.00 | 0.79 | 1.95 | 2.37 | 1.75 | 0.84 | 0.00 | 0.79 | 1.99 | 2.64 | 2.16 | 0.84 | | | | | | |
| 105 | 0.00 | 0.66 | 1.74 | 2.13 | 1.49 | 0.63 | 0.00 | 0.76 | 1.64 | 2.37 | 1.94 | 0.72 | | | | | | |
| 110 | 0.00 | 0.51 | 1.47 | 1.81 | 1.20 | 0.49 | 0.00 | 0.63 | 1.32 | 2.02 | 1.65 | 0.59 | | | | | | |
| 115 | 0.00 | 0.43 | 1.31 | 1.63 | 1.01 | 0.38 | 0.00 | 0.46 | 1.07 | 1.82 | 1.49 | 0.50 | | | | | | |
| 120 | 0.00 | 0.34 | 1.07 | 1.38 | 0.84 | 0.19 | 0.00 | 0.25 | 0.98 | 1.54 | 1.26 | 0.42 | | | | | | |
| 125 | 0.00 | 0.27 | 0.94 | 1.22 | 0.63 | 0.10 | 0.00 | 0.16 | 0.81 | 1.38 | 1.12 | 0.38 | | | | | | |
| 130 | 0.00 | 0.16 | 0.79 | 0.93 | 0.42 | 0.00 | 0.00 | 0.05 | 0.53 | 1.14 | 0.94 | 0.30 | | | | | | |
| 135 | 0.00 | 0.09 | 0.66 | 0.74 | 0.29 | 0.00 | 0.00 | 0.00 | 0.38 | 0.98 | 0.83 | 0.22 | | | | | | |
| 140 | 0.00 | 0.01 | 0.50 | 0.62 | 0.07 | 0.00 | 0.00 | 0.00 | 0.17 | 0.70 | 0.68 | 0.13 | | | | | | |
| 145 | 0.00 | 0.00 | 0.37 | 0.50 | 0.01 | 0.00 | 0.00 | 0.00 | 0.08 | 0.53 | 0.58 | 0.08 | | | | | | |
| 150 | 0.00 | 0.00 | 0.21 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.40 | 0.01 | | | | | | |
| 155 | 0.00 | 0.00 | 0.11 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.29 | 0.00 | | | | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.13 | 0.00 | | | | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | | | | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-09-12

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:45.0%
Test Distance:6.950m [K=1.0000]
Remarks: