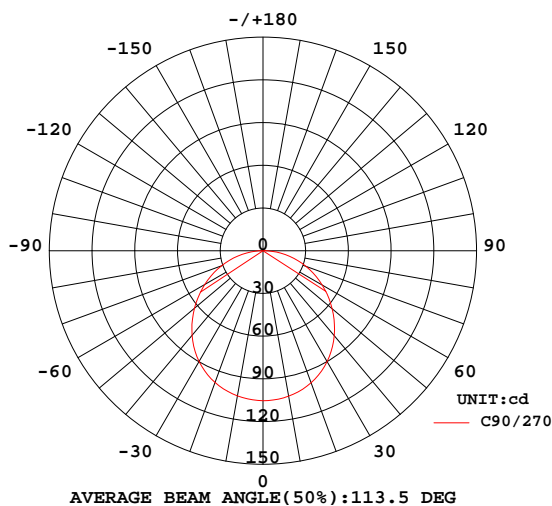


LUMINAIRE PHOTOMETRIC TEST REPORT

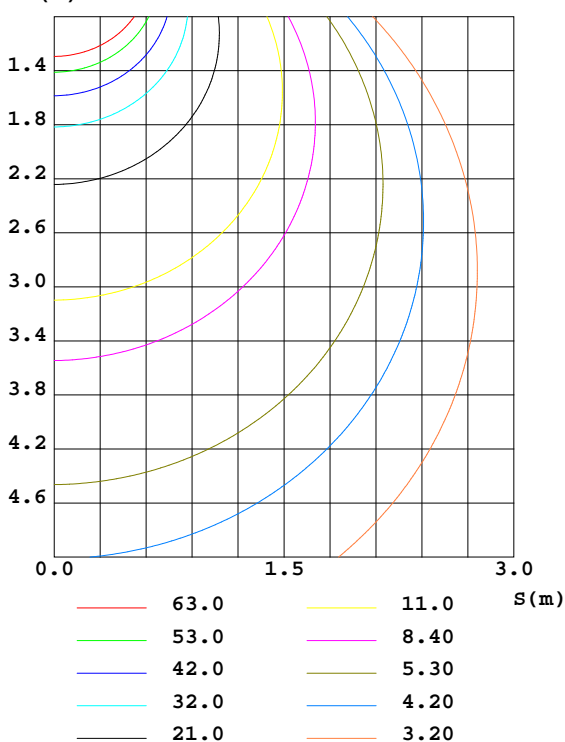
| | |
|--|-------------------|
| NAME: C-SFR-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SPEC.: |
| MFR.: | SUR.:16*1000mm |
| | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 33.07 lm/W | | | |
|------------------|-------|----------------------------------|--------|------------------------|----------|
| MODEL | 5050 | Imax(cd) | 105.8 | S/MH(C0/180) | 1.24 |
| NOMINAL POWER(W) | 9.56 | LOR(%) | 100.2 | S/MH(C90/270) | 1.27 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 316.11 | η UP,DN(C0-180) | 0.6,49.1 |
| NOMINAL FLUX(lm) | 315.6 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.8,49.6 |
| LAMPS INSIDE | 1 | η up(%) | 1.4 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 24 | η down(%) | 98.8 | 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:25.3DEG
Operators:shan
Test Date:2018-08-27

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 | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 103.3 | 103.2 | 103.5 | 104.4 | 104.0 | 104.4 | 103.7 | 103.4 | 0- 10 | 9.991 | 9.991 | 3.16,3.17 |
| 20 | 97.36 | 97.36 | 98.51 | 99.58 | 98.53 | 99.64 | 98.69 | 97.56 | 10- 20 | 28.66 | 38.65 | 12.2,12.2 |
| 30 | 87.98 | 88.09 | 89.83 | 91.29 | 89.64 | 91.32 | 89.97 | 88.21 | 20- 30 | 43.51 | 82.17 | 26,26 |
| 40 | 75.77 | 75.75 | 77.51 | 79.76 | 77.87 | 79.86 | 77.82 | 75.80 | 30- 40 | 52.49 | 134.7 | 42.6,42.7 |
| 50 | 61.59 | 61.15 | 62.84 | 65.60 | 64.03 | 66.02 | 63.47 | 61.34 | 40- 50 | 54.49 | 189.1 | 59.8,59.9 |
| 60 | 46.14 | 45.50 | 47.13 | 50.10 | 48.69 | 50.67 | 47.98 | 45.70 | 50- 60 | 49.76 | 238.9 | 75.6,75.7 |
| 70 | 30.03 | 29.39 | 31.08 | 34.01 | 32.65 | 34.74 | 32.16 | 29.71 | 60- 70 | 39.42 | 278.3 | 88,88.2 |
| 80 | 13.47 | 13.07 | 14.80 | 17.61 | 16.03 | 18.34 | 16.03 | 13.38 | 70- 80 | 24.90 | 303.2 | 95.9,96.1 |
| 90 | 0.5982 | 1.406 | 1.678 | 2.258 | 1.018 | 3.413 | 2.539 | 1.825 | 80- 90 | 8.489 | 311.7 | 98.6,98.8 |
| 100 | 0.5234 | 1.027 | 0.9596 | 1.008 | 0.7576 | 1.357 | 1.646 | 1.516 | 90-100 | 1.412 | 313.1 | 99.1,99.2 |
| 110 | 0.4335 | 0.7902 | 0.7661 | 0.7383 | 0.7140 | 1.175 | 1.305 | 1.213 | 100-110 | 1.048 | 314.2 | 99.4,99.5 |
| 120 | 0.3027 | 0.4440 | 0.5644 | 0.5449 | 0.6513 | 0.8479 | 0.9291 | 0.8725 | 110-120 | 0.7574 | 314.9 | 99.6,99.8 |
| 130 | 0.1528 | 0.2835 | 0.3057 | 0.3189 | 0.5777 | 0.5454 | 0.6591 | 0.4392 | 120-130 | 0.4793 | 315.4 | 99.8,99.9 |
| 140 | 0.1499 | 0.2889 | 0.1144 | 0.3053 | 0.5096 | 0.3517 | 0.3266 | 0.3434 | 130-140 | 0.2707 | 315.7 | 99.9,100 |
| 150 | 0.2044 | 0.2916 | 0.1852 | 0.2944 | 0.4333 | 0.3352 | 0.2126 | 0.3342 | 140-150 | 0.1820 | 315.9 | 99.9,100 |
| 160 | 0.2616 | 0.2856 | 0.2126 | 0.3053 | 0.3788 | 0.3325 | 0.2098 | 0.2999 | 150-160 | 0.1335 | 316.0 | 100,100 |
| 170 | 0.2780 | 0.2752 | 0.2371 | 0.2943 | 0.3243 | 0.3189 | 0.2426 | 0.2644 | 160-170 | 0.0807 | 316.1 | 100,100 |
| 180 | 0.2916 | 0.2889 | 0.2780 | 0.2834 | 0.2971 | 0.3053 | 0.2698 | 0.2807 | 170-180 | 0.0270 | 316.1 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

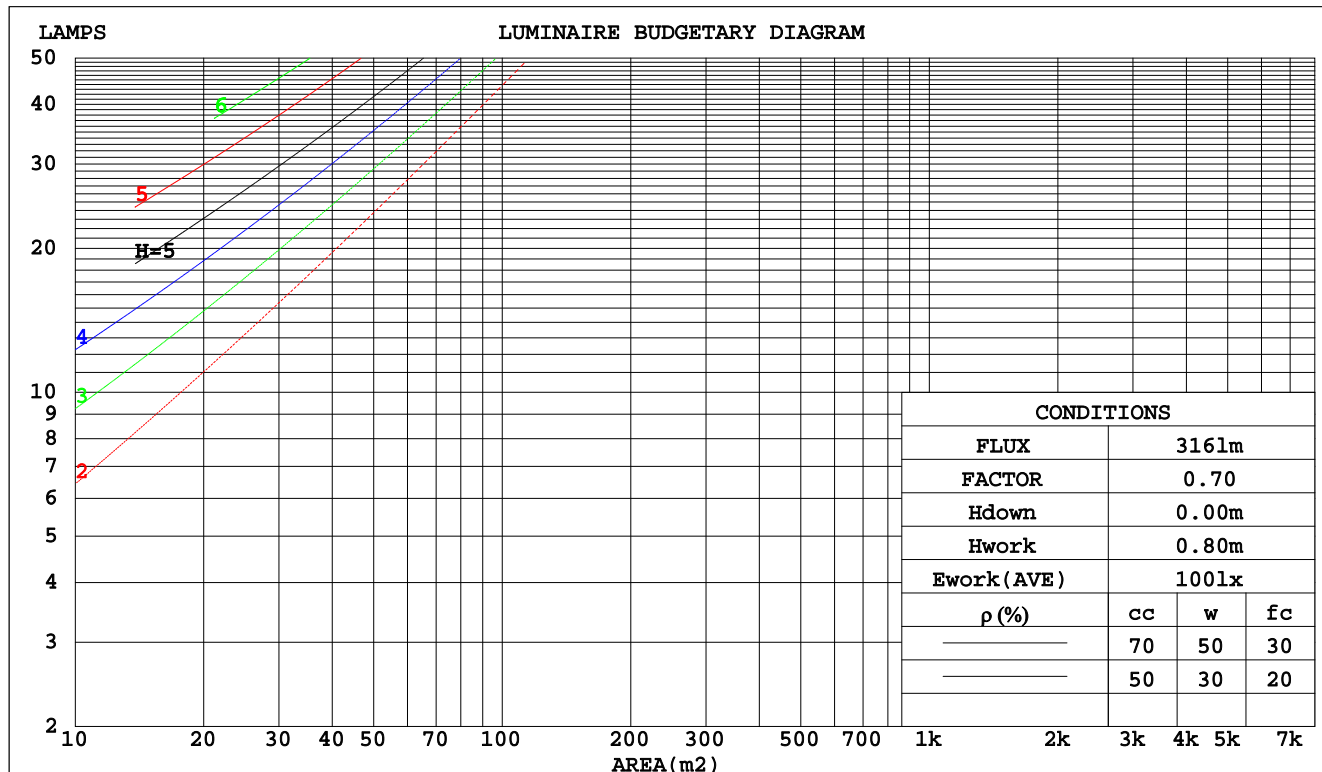
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | 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 | | | | | | | | | | | | | | | |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SERIAL No.: |
| MFR.: | 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 | Wall Exitance Coefficients(WEC) | | | | | |
| 0.0 | RCR:Room Cavity Ratio | | | | | |
| 1.0 | .324 .184 .058 | .316 .180 .057 | .302 .173 .055 | .289 .167 .054 | .277 .161 .052 | |
| 2.0 | .301 .165 .051 | .294 .162 .050 | .281 .157 .049 | .270 .151 .047 | .259 .147 .046 | |
| 3.0 | .276 .147 .044 | .270 .145 .044 | .259 .140 .043 | .249 .136 .042 | .239 .133 .041 | |
| 4.0 | .254 .132 .039 | .248 .130 .038 | .239 .127 .038 | .229 .123 .037 | .221 .120 .037 | |
| 5.0 | .234 .119 .035 | .229 .118 .034 | .220 .115 .034 | .212 .112 .033 | .204 .109 .033 | |
| 6.0 | .216 .108 .031 | .212 .107 .031 | .204 .105 .030 | .197 .102 .030 | .190 .100 .030 | |
| 7.0 | .201 .099 .028 | .197 .098 .028 | .190 .096 .028 | .184 .094 .027 | .177 .092 .027 | |
| 8.0 | .187 .092 .026 | .184 .091 .026 | .178 .089 .025 | .172 .087 .025 | .166 .085 .025 | |
| 9.0 | .175 .085 .024 | .172 .084 .024 | .167 .082 .023 | .161 .081 .023 | .156 .079 .023 | |
| 10.0 | .165 .079 .022 | .162 .078 .022 | .157 .077 .022 | .152 .075 .021 | .147 .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 | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | |
| 0.0 | RCR:Room Cavity Ratio | | | | | |
| 1.0 | .201 .201 .201 | .172 .172 .172 | .117 .117 .117 | .067 .067 .067 | .022 .022 .022 | |
| 2.0 | .192 .167 .144 | .164 .143 .124 | .112 .099 .086 | .065 .057 .050 | .021 .018 .016 | |
| 3.0 | .184 .143 .108 | .158 .123 .093 | .108 .085 .065 | .062 .049 .038 | .020 .016 .012 | |
| 4.0 | .177 .125 .084 | .151 .108 .073 | .104 .075 .051 | .060 .044 .030 | .019 .014 .010 | |
| 5.0 | .169 .112 .069 | .145 .097 .060 | .100 .068 .042 | .058 .040 .025 | .019 .013 .008 | |
| 6.0 | .161 .102 .058 | .139 .088 .050 | .096 .062 .035 | .055 .036 .021 | .018 .012 .007 | |
| 7.0 | .154 .093 .050 | .133 .081 .043 | .091 .057 .031 | .053 .033 .018 | .017 .011 .006 | |
| 8.0 | .147 .087 .044 | .127 .075 .038 | .088 .053 .027 | .051 .031 .016 | .016 .010 .005 | |
| 9.0 | .141 .081 .040 | .121 .070 .034 | .084 .049 .024 | .049 .029 .015 | .016 .010 .005 | |
| 10.0 | .135 .076 .036 | .116 .066 .031 | .080 .046 .022 | .047 .027 .013 | .015 .009 .004 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | | | | | WEIGHT:0.325Kg/m | | | | | | |
| DIM.: 16*17mm | | | | | 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 | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | | 18.8 | 20.3 | 19.1 | 20.5 | 20.8 | 18.9 | 20.4 | 19.2 | 20.6 | 20.9 |
| 3H | | 20.4 | 21.8 | 20.7 | 22.0 | 22.3 | 20.5 | 21.9 | 20.8 | 22.2 | 22.5 |
| 4H | | 21.1 | 22.4 | 21.4 | 22.7 | 23.0 | 21.2 | 22.6 | 21.6 | 22.8 | 23.1 |
| 6H | | 21.6 | 22.8 | 21.9 | 23.1 | 23.4 | 21.8 | 23.1 | 22.1 | 23.4 | 23.7 |
| 8H | | 21.7 | 22.9 | 22.1 | 23.3 | 23.6 | 22.0 | 23.2 | 22.4 | 23.5 | 23.8 |
| 12H | | 21.8 | 23.0 | 22.2 | 23.3 | 23.6 | 22.1 | 23.3 | 22.5 | 23.6 | 23.9 |
| 4H 2H | | 19.4 | 20.7 | 19.7 | 21.0 | 21.3 | 19.5 | 20.8 | 19.8 | 21.1 | 21.4 |
| 3H | | 21.2 | 22.4 | 21.6 | 22.7 | 23.0 | 21.3 | 22.5 | 21.7 | 22.8 | 23.1 |
| 4H | | 22.0 | 23.1 | 22.4 | 23.4 | 23.8 | 22.1 | 23.2 | 22.5 | 23.6 | 23.9 |
| 6H | | 22.6 | 23.6 | 23.0 | 24.0 | 24.4 | 22.8 | 23.8 | 23.3 | 24.2 | 24.6 |
| 8H | | 22.8 | 23.7 | 23.3 | 24.1 | 24.5 | 23.1 | 24.0 | 23.5 | 24.4 | 24.8 |
| 12H | | 22.9 | 23.8 | 23.4 | 24.2 | 24.6 | 23.3 | 24.1 | 23.7 | 24.5 | 24.9 |
| 8H 4H | | 22.3 | 23.2 | 22.7 | 23.6 | 24.0 | 22.4 | 23.3 | 22.8 | 23.7 | 24.1 |
| 6H | | 23.1 | 23.8 | 23.5 | 24.2 | 24.7 | 23.3 | 24.0 | 23.7 | 24.4 | 24.9 |
| 8H | | 23.3 | 24.0 | 23.8 | 24.5 | 24.9 | 23.6 | 24.3 | 24.1 | 24.7 | 25.2 |
| 12H | | 23.5 | 24.1 | 24.0 | 24.6 | 25.1 | 23.9 | 24.4 | 24.4 | 24.9 | 25.4 |
| 12H 4H | | 22.3 | 23.1 | 22.7 | 23.5 | 24.0 | 22.4 | 23.2 | 22.9 | 23.7 | 24.1 |
| 6H | | 23.1 | 23.8 | 23.6 | 24.2 | 24.7 | 23.3 | 24.0 | 23.8 | 24.4 | 24.9 |
| 8H | | 23.4 | 24.0 | 23.9 | 24.5 | 25.0 | 23.7 | 24.3 | 24.2 | 24.7 | 25.3 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |
| 1.5H | | + 0.1 / - 0.3 | | | | | + 0.1 / - 0.3 | | | | |
| 2.0H | | + 0.1 / - 0.2 | | | | | + 0.1 / - 0.2 | | | | |

CIE Pub.117 Corrected 315.6 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.0)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SERIAL No.: |
| MFR.: | PROTECTION ANGLE: |

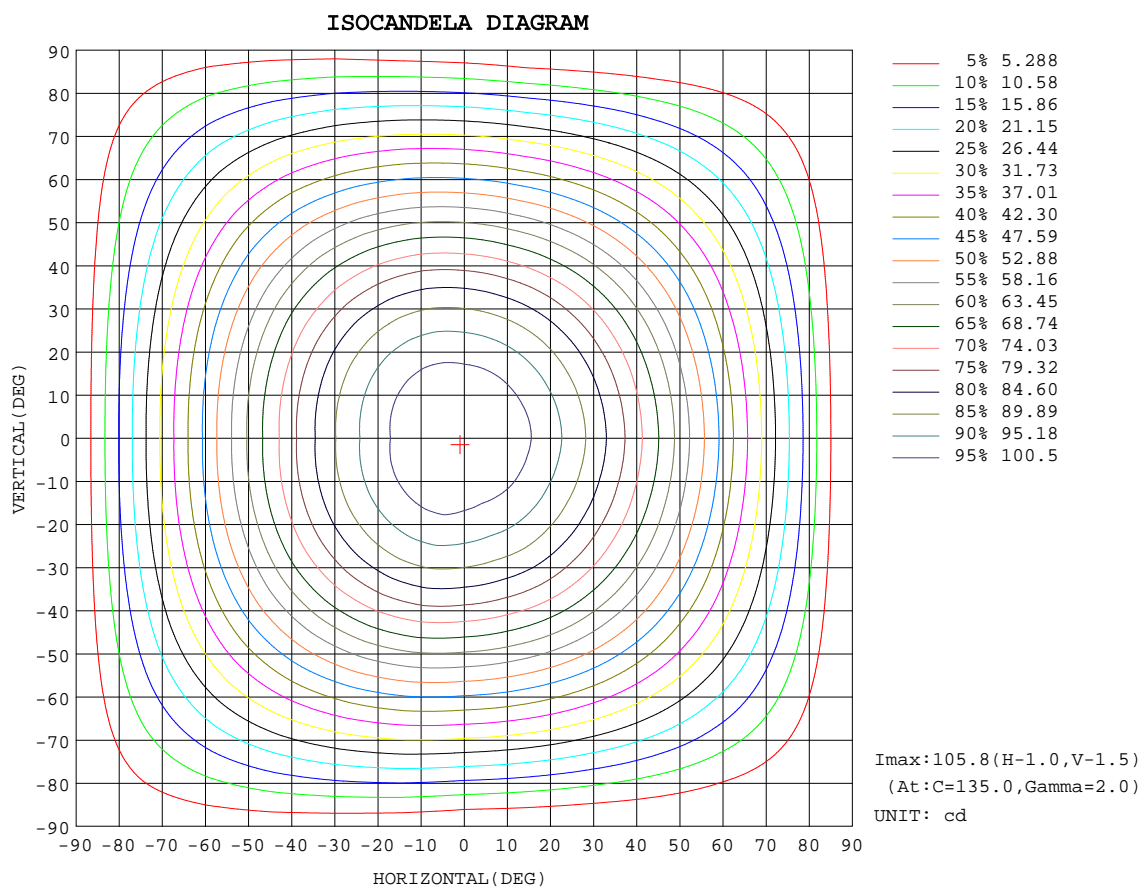
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 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 | 56 | 45 | 38 | 56 | 44 | 38 | 54 | 44 | 37 | 31 |
| 0.80 | 66 | 55 | 47 | 65 | 54 | 47 | 63 | 53 | 46 | 39 |
| 1.00 | 75 | 63 | 56 | 73 | 63 | 56 | 71 | 64 | 55 | 48 |
| 1.25 | 82 | 71 | 64 | 80 | 70 | 63 | 77 | 69 | 62 | 55 |
| 1.50 | 87 | 77 | 69 | 85 | 76 | 69 | 82 | 74 | 68 | 60 |
| 2.00 | 94 | 85 | 78 | 92 | 84 | 77 | 88 | 81 | 76 | 67 |
| 2.50 | 98 | 90 | 83 | 96 | 88 | 82 | 92 | 85 | 80 | 72 |
| 3.00 | 101 | 94 | 88 | 99 | 92 | 87 | 95 | 89 | 85 | 76 |
| 4.00 | 105 | 99 | 94 | 103 | 97 | 93 | 98 | 94 | 90 | 81 |
| 5.00 | 108 | 103 | 98 | 105 | 101 | 97 | 100 | 97 | 94 | 84 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | | | | | | | | |
| Suspended | | | | | | | | | | |
| SHRNM = 1.25 | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SERIAL No.: |
| MFR.: | PROTECTION ANGLE: |

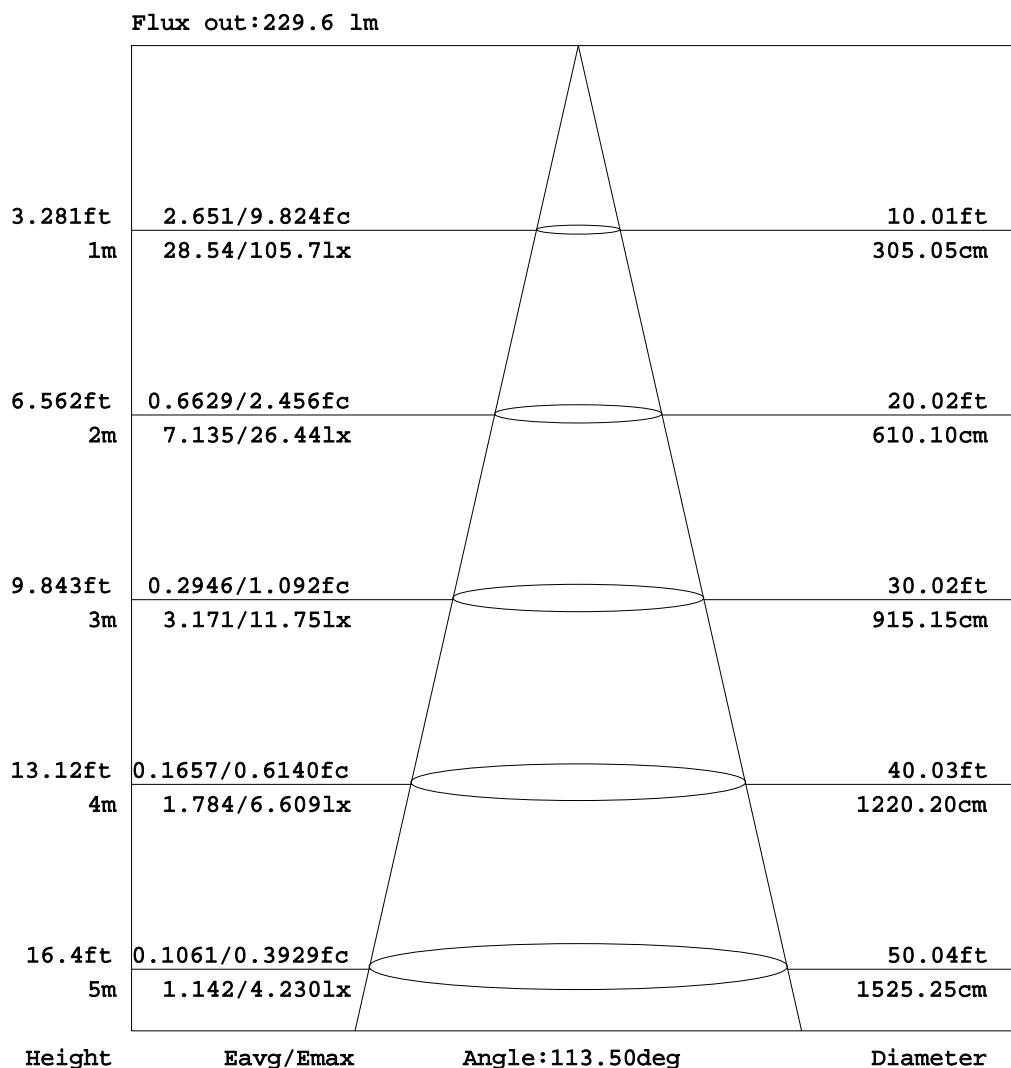


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | 5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SPEC.: | SERIAL No.: |
| MFR.: | SUR.:16*1000mm | PROTECTION ANGLE: |



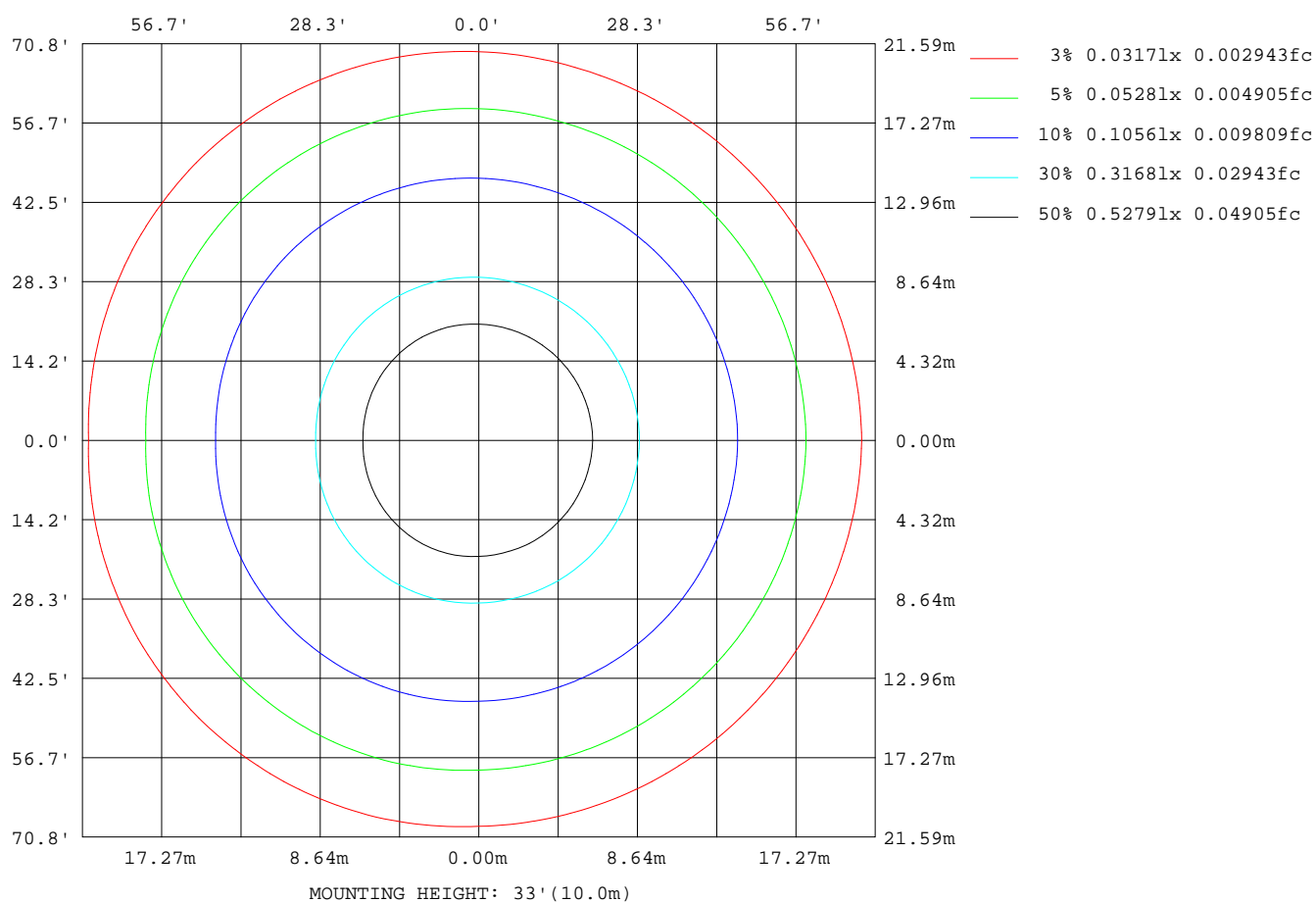
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SPEC.: |
| MFR.: | SUR.:16*1000mm |
| | PROTECTION ANGLE: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | 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 | 315.6 | 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 | 5878 | 5838 | 5813 | 5802 | 5810 | 5834 | 5868 | 5898 | 5937 | 5998 | 6112 | 6212 | 6274 | 6308 | 6320 | 6310 | 6265 | 6202 | 6157 |
| 60 | 5767 | 5721 | 5688 | 5671 | 5677 | 5701 | 5738 | 5777 | 5823 | 5891 | 6021 | 6135 | 6208 | 6251 | 6270 | 6262 | 6218 | 6145 | 6086 |
| 65 | 5640 | 5593 | 5552 | 5524 | 5532 | 5559 | 5601 | 5655 | 5713 | 5787 | 5941 | 6074 | 6157 | 6213 | 6236 | 6225 | 6181 | 6097 | 6025 |
| 70 | 5487 | 5429 | 5378 | 5343 | 5355 | 5388 | 5438 | 5514 | 5589 | 5679 | 5865 | 6027 | 6129 | 6196 | 6223 | 6211 | 6158 | 6056 | 5966 |
| 75 | 5261 | 5188 | 5123 | 5079 | 5102 | 5151 | 5217 | 5321 | 5425 | 5548 | 5793 | 6001 | 6128 | 6216 | 6251 | 6231 | 6158 | 6018 | 5895 |
| 80 | 4847 | 4763 | 4678 | 4617 | 4663 | 4737 | 4830 | 5001 | 5158 | 5328 | 5699 | 6005 | 6179 | 6304 | 6349 | 6310 | 6203 | 5980 | 5771 |
| 85 | 3749 | 3709 | 3638 | 3594 | 3761 | 3941 | 4109 | 4395 | 4646 | 4918 | 5552 | 6081 | 6395 | 6676 | 6762 | 6639 | 6422 | 5980 | 5566 |

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 | 6762 | 200 | --- | 500 |
| Category 2 | 65 to 90 | 6762 | 200 | --- | 500 |
| Category 3 | 75 to 90 | 6762 | 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: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SPEC.: |
| MFR.: | SUR.:16*1000mm |
| | PROTECTION 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 | 106 | 106 | 106 | 106 | 105 | 105 | 105 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 105 | 105 | 105 |
| 5 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 106 | 106 | 106 | 106 | 105 | 105 | 106 | 106 | 105 | 105 | 105 |
| 10 | 103 | 103 | 103 | 103 | 103 | 103 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 |
| 15 | 101 | 101 | 101 | 101 | 101 | 101 | 102 | 103 | 103 | 103 | 103 | 103 | 102 | 103 | 103 | 103 | 103 | 103 | 102 |
| 20 | 97.4 | 97.1 | 97.1 | 97.4 | 97.6 | 97.8 | 98.5 | 99.5 | 99.7 | 99.6 | 99.3 | 99.0 | 98.5 | 98.9 | 99.3 | 99.6 | 99.7 | 99.3 | 98.7 |
| 25 | 94.0 | 93.7 | 93.7 | 94.0 | 94.5 | 94.7 | 95.5 | 96.6 | 96.8 | 96.7 | 96.3 | 95.9 | 95.3 | 95.8 | 96.4 | 96.7 | 96.8 | 96.4 | 95.6 |
| 30 | 88.0 | 87.6 | 87.7 | 88.1 | 88.7 | 89.0 | 89.8 | 91.1 | 91.4 | 91.3 | 90.9 | 90.2 | 89.6 | 90.3 | 90.9 | 91.3 | 91.4 | 90.9 | 90.0 |
| 35 | 83.4 | 83.0 | 83.1 | 83.5 | 84.1 | 84.4 | 85.3 | 86.7 | 87.1 | 87.0 | 86.6 | 85.9 | 85.2 | 85.9 | 86.6 | 87.1 | 87.1 | 86.5 | 85.5 |
| 40 | 75.8 | 75.4 | 75.3 | 75.8 | 76.3 | 76.7 | 77.5 | 79.0 | 79.7 | 79.8 | 79.4 | 78.7 | 77.9 | 78.7 | 79.4 | 79.9 | 79.7 | 79.1 | 77.8 |
| 45 | 70.3 | 69.9 | 69.8 | 70.1 | 70.7 | 71.1 | 71.8 | 73.4 | 74.2 | 74.3 | 74.0 | 73.3 | 72.5 | 73.3 | 74.2 | 74.5 | 74.3 | 73.5 | 72.3 |
| 50 | 61.6 | 61.1 | 60.9 | 61.2 | 61.7 | 62.0 | 62.8 | 64.4 | 65.3 | 65.6 | 65.5 | 64.7 | 64.0 | 64.9 | 65.7 | 66.0 | 65.7 | 64.8 | 63.5 |
| 55 | 55.5 | 55.0 | 54.8 | 55.0 | 55.4 | 55.9 | 56.6 | 58.2 | 59.1 | 59.5 | 59.4 | 58.8 | 58.1 | 58.9 | 59.8 | 60.0 | 59.6 | 58.7 | 57.4 |
| 60 | 46.1 | 45.6 | 45.4 | 45.5 | 45.9 | 46.4 | 47.1 | 48.7 | 49.7 | 50.1 | 50.1 | 49.5 | 48.7 | 49.6 | 50.4 | 50.7 | 50.2 | 49.3 | 48.0 |
| 65 | 39.7 | 39.3 | 39.0 | 39.1 | 39.5 | 40.0 | 40.7 | 42.3 | 43.2 | 43.7 | 43.7 | 43.2 | 42.3 | 43.3 | 44.1 | 44.4 | 43.9 | 42.9 | 41.7 |
| 70 | 30.0 | 29.6 | 29.2 | 29.4 | 29.8 | 30.4 | 31.1 | 32.6 | 33.5 | 34.0 | 34.0 | 33.5 | 32.6 | 33.6 | 34.5 | 34.7 | 34.3 | 33.3 | 32.2 |
| 75 | 23.4 | 23.0 | 22.7 | 22.9 | 23.2 | 23.9 | 24.6 | 26.1 | 27.0 | 27.5 | 27.5 | 26.9 | 26.0 | 27.0 | 28.0 | 28.2 | 27.8 | 26.9 | 25.7 |
| 80 | 13.5 | 13.1 | 12.8 | 13.1 | 13.4 | 14.2 | 14.8 | 16.3 | 17.2 | 17.6 | 17.5 | 17.0 | 16.0 | 17.1 | 18.1 | 18.3 | 18.0 | 17.1 | 16.0 |
| 85 | 6.86 | 6.69 | 6.46 | 6.80 | 7.15 | 7.82 | 8.41 | 9.80 | 10.6 | 11.1 | 10.9 | 10.4 | 9.40 | 10.5 | 11.5 | 11.8 | 11.5 | 10.6 | 9.65 |
| 90 | 0.60 | 0.86 | 1.16 | 1.41 | 1.58 | 1.67 | 1.68 | 1.94 | 2.17 | 2.26 | 2.11 | 1.65 | 1.02 | 1.92 | 2.91 | 3.41 | 3.38 | 2.98 | 2.54 |
| 95 | 0.56 | 0.75 | 1.01 | 1.19 | 1.24 | 1.17 | 1.11 | 1.16 | 1.19 | 1.16 | 1.06 | 0.88 | 0.73 | 0.98 | 1.34 | 1.66 | 1.63 | 1.64 | 1.79 |
| 100 | 0.52 | 0.60 | 0.85 | 1.03 | 1.09 | 1.03 | 0.96 | 1.02 | 1.00 | 1.01 | 0.88 | 0.79 | 0.76 | 0.87 | 1.12 | 1.36 | 1.51 | 1.51 | 1.65 |
| 105 | 0.50 | 0.52 | 0.78 | 0.93 | 0.99 | 0.95 | 0.87 | 0.85 | 0.84 | 0.86 | 0.75 | 0.73 | 0.73 | 0.79 | 1.08 | 1.26 | 1.43 | 1.45 | 1.56 |
| 110 | 0.43 | 0.47 | 0.60 | 0.79 | 0.86 | 0.82 | 0.77 | 0.76 | 0.73 | 0.74 | 0.73 | 0.63 | 0.71 | 0.67 | 0.93 | 1.17 | 1.23 | 1.36 | 1.30 |
| 115 | 0.39 | 0.43 | 0.48 | 0.68 | 0.77 | 0.73 | 0.69 | 0.63 | 0.61 | 0.62 | 0.64 | 0.63 | 0.69 | 0.64 | 0.82 | 1.03 | 1.14 | 1.24 | 1.08 |
| 120 | 0.30 | 0.36 | 0.39 | 0.44 | 0.63 | 0.60 | 0.56 | 0.45 | 0.52 | 0.54 | 0.47 | 0.60 | 0.65 | 0.61 | 0.65 | 0.85 | 0.99 | 1.09 | 0.93 |
| 125 | 0.24 | 0.31 | 0.34 | 0.33 | 0.49 | 0.51 | 0.47 | 0.36 | 0.44 | 0.41 | 0.46 | 0.59 | 0.62 | 0.59 | 0.55 | 0.73 | 0.83 | 0.98 | 0.85 |
| 130 | 0.15 | 0.24 | 0.29 | 0.28 | 0.28 | 0.27 | 0.31 | 0.25 | 0.23 | 0.32 | 0.45 | 0.55 | 0.58 | 0.55 | 0.47 | 0.55 | 0.63 | 0.71 | 0.66 |
| 135 | 0.15 | 0.21 | 0.28 | 0.29 | 0.24 | 0.16 | 0.12 | 0.11 | 0.20 | 0.31 | 0.43 | 0.52 | 0.55 | 0.52 | 0.44 | 0.43 | 0.51 | 0.53 | 0.51 |
| 140 | 0.15 | 0.20 | 0.27 | 0.29 | 0.26 | 0.16 | 0.11 | 0.12 | 0.21 | 0.31 | 0.41 | 0.47 | 0.51 | 0.47 | 0.41 | 0.35 | 0.32 | 0.33 | 0.33 |
| 145 | 0.17 | 0.21 | 0.27 | 0.29 | 0.27 | 0.19 | 0.14 | 0.15 | 0.22 | 0.31 | 0.39 | 0.46 | 0.48 | 0.46 | 0.40 | 0.34 | 0.28 | 0.22 | 0.21 |
| 150 | 0.20 | 0.25 | 0.28 | 0.29 | 0.28 | 0.22 | 0.19 | 0.18 | 0.23 | 0.29 | 0.38 | 0.42 | 0.43 | 0.43 | 0.38 | 0.34 | 0.27 | 0.21 | 0.21 |
| 155 | 0.23 | 0.25 | 0.28 | 0.29 | 0.28 | 0.23 | 0.20 | 0.19 | 0.24 | 0.31 | 0.37 | 0.41 | 0.42 | 0.40 | 0.37 | 0.34 | 0.27 | 0.22 | 0.22 |
| 160 | 0.26 | 0.27 | 0.29 | 0.29 | 0.27 | 0.25 | 0.21 | 0.21 | 0.24 | 0.31 | 0.35 | 0.37 | 0.38 | 0.37 | 0.35 | 0.33 | 0.29 | 0.23 | 0.21 |
| 165 | 0.28 | 0.28 | 0.28 | 0.28 | 0.27 | 0.26 | 0.22 | 0.22 | 0.25 | 0.30 | 0.34 | 0.35 | 0.35 | 0.35 | 0.33 | 0.32 | 0.30 | 0.24 | 0.22 |
| 170 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.27 | 0.24 | 0.24 | 0.26 | 0.29 | 0.31 | 0.33 | 0.32 | 0.32 | 0.31 | 0.32 | 0.30 | 0.26 | 0.24 |
| 175 | 0.28 | 0.28 | 0.29 | 0.28 | 0.29 | 0.29 | 0.25 | 0.25 | 0.26 | 0.28 | 0.31 | 0.31 | 0.31 | 0.31 | 0.30 | 0.31 | 0.30 | 0.27 | 0.25 |
| 180 | 0.29 | 0.29 | 0.31 | 0.29 | 0.30 | 0.30 | 0.28 | 0.28 | 0.28 | 0.28 | 0.30 | 0.30 | 0.30 | 0.29 | 0.29 | 0.31 | 0.31 | 0.29 | 0.27 |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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-F22S-VB-D24CC-RGBW(4000K)-84-5050-1M-RGB | WEIGHT:0.325Kg/m |
| DIM.: 16*17mm | SPEC.: SERIAL No.: |
| MFR.: | SUR.:16*1000mm PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 106 | 106 | 106 | 106 | 106 | | | | | | | | | | | | | |
| 5 | 105 | 105 | 105 | 105 | 105 | | | | | | | | | | | | | |
| 10 | 104 | 104 | 103 | 103 | 103 | | | | | | | | | | | | | |
| 15 | 102 | 102 | 102 | 101 | 101 | | | | | | | | | | | | | |
| 20 | 98.3 | 97.9 | 97.6 | 97.3 | 97.3 | | | | | | | | | | | | | |
| 25 | 95.1 | 94.6 | 94.2 | 93.9 | 93.9 | | | | | | | | | | | | | |
| 30 | 89.2 | 88.7 | 88.2 | 87.9 | 87.8 | | | | | | | | | | | | | |
| 35 | 84.6 | 84.0 | 83.5 | 83.2 | 83.2 | | | | | | | | | | | | | |
| 40 | 76.9 | 76.2 | 75.8 | 75.5 | 75.6 | | | | | | | | | | | | | |
| 45 | 71.2 | 70.6 | 70.1 | 69.9 | 70.0 | | | | | | | | | | | | | |
| 50 | 62.3 | 61.7 | 61.3 | 61.2 | 61.3 | | | | | | | | | | | | | |
| 55 | 56.2 | 55.6 | 55.2 | 55.1 | 55.2 | | | | | | | | | | | | | |
| 60 | 46.7 | 46.1 | 45.7 | 45.6 | 45.8 | | | | | | | | | | | | | |
| 65 | 40.4 | 39.7 | 39.4 | 39.2 | 39.4 | | | | | | | | | | | | | |
| 70 | 30.9 | 30.2 | 29.7 | 29.6 | 29.7 | | | | | | | | | | | | | |
| 75 | 24.4 | 23.7 | 23.2 | 23.0 | 23.1 | | | | | | | | | | | | | |
| 80 | 14.7 | 13.9 | 13.4 | 13.2 | 13.2 | | | | | | | | | | | | | |
| 85 | 8.21 | 7.53 | 7.01 | 6.86 | 6.74 | | | | | | | | | | | | | |
| 90 | 2.08 | 1.99 | 1.83 | 1.54 | 1.13 | | | | | | | | | | | | | |
| 95 | 1.81 | 1.83 | 1.69 | 1.41 | 1.00 | | | | | | | | | | | | | |
| 100 | 1.64 | 1.68 | 1.52 | 1.23 | 0.82 | | | | | | | | | | | | | |
| 105 | 1.56 | 1.57 | 1.40 | 1.12 | 0.69 | | | | | | | | | | | | | |
| 110 | 1.38 | 1.39 | 1.21 | 0.94 | 0.50 | | | | | | | | | | | | | |
| 115 | 1.25 | 1.27 | 1.09 | 0.77 | 0.46 | | | | | | | | | | | | | |
| 120 | 1.06 | 1.07 | 0.87 | 0.48 | 0.36 | | | | | | | | | | | | | |
| 125 | 0.92 | 0.91 | 0.70 | 0.38 | 0.29 | | | | | | | | | | | | | |
| 130 | 0.70 | 0.67 | 0.44 | 0.34 | 0.25 | | | | | | | | | | | | | |
| 135 | 0.52 | 0.49 | 0.36 | 0.33 | 0.25 | | | | | | | | | | | | | |
| 140 | 0.27 | 0.31 | 0.34 | 0.33 | 0.25 | | | | | | | | | | | | | |
| 145 | 0.21 | 0.30 | 0.34 | 0.33 | 0.26 | | | | | | | | | | | | | |
| 150 | 0.22 | 0.26 | 0.33 | 0.33 | 0.28 | | | | | | | | | | | | | |
| 155 | 0.22 | 0.25 | 0.33 | 0.34 | 0.29 | | | | | | | | | | | | | |
| 160 | 0.24 | 0.25 | 0.30 | 0.33 | 0.30 | | | | | | | | | | | | | |
| 165 | 0.26 | 0.25 | 0.28 | 0.31 | 0.29 | | | | | | | | | | | | | |
| 170 | 0.27 | 0.25 | 0.26 | 0.28 | 0.28 | | | | | | | | | | | | | |
| 175 | 0.28 | 0.26 | 0.26 | 0.28 | 0.28 | | | | | | | | | | | | | |
| 180 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | | | | | | | | | | | | | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:shan
Test Date:2018-08-27

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: