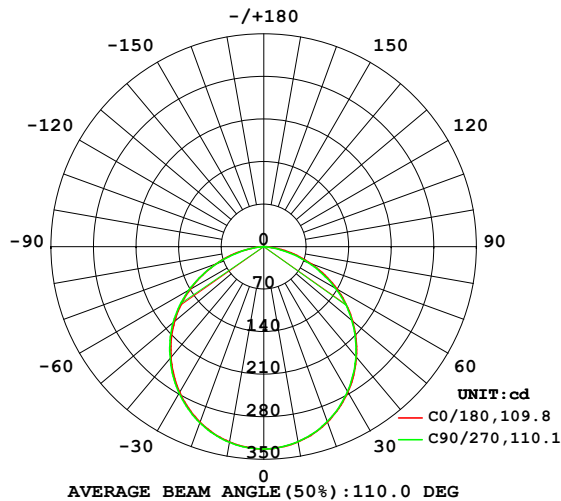


LUMINAIRE PHOTOMETRIC TEST REPORT

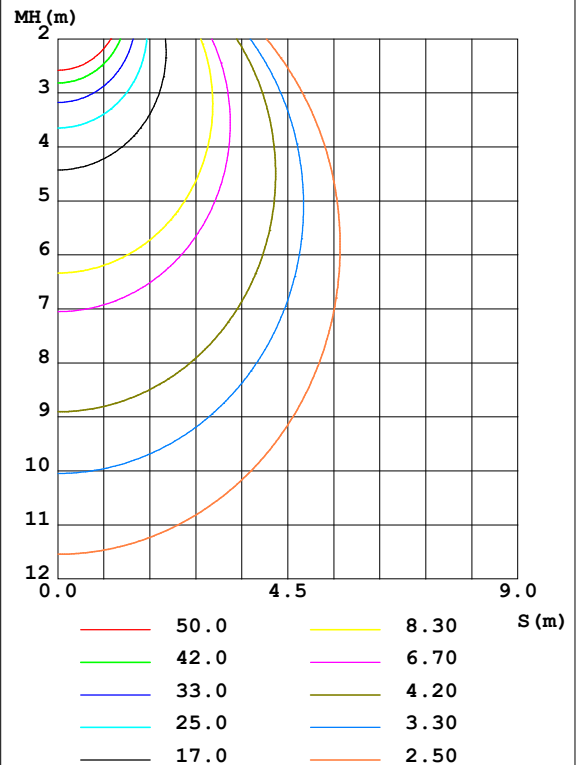
| | | | | | |
|--|--|-------|--|------------------|--|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | | | | |
| NAME: RSD-6-TUN-WH | | TYPE: | | WEIGHT: | |
| SPEC.:4000K 90 | | DIM.: | | SERIAL No.: | |
| MFR.: | | SUR.: | | Shielding Angle: | |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 79.45 lm/W |
|------------------|---------|------------------|--------|-------------------|----------|-----------------|
| MODEL | | Imax(cd) | 332.9 | S/MH(C0/180) | 1.24 | |
| NOMINAL POWER(W) | 12 | LOR(%) | 100.0 | S/MH(C90/270) | 1.24 | |
| RATED VOLTAGE(V) | 120 | TOTAL FLUX(lm) | 908.41 | □ UP,DN(C0-180) | 0.0,49.6 | |
| NOMINAL FLUX(lm) | 908.407 | CIE CLASS | DIRECT | □ UP,DN(C180-360) | 0.0,50.4 | |
| LAMPS INSIDE | 1 | □ up(%) | 0.0 | CIBSE SHR NOM | 1.25 | |
| TEST VOLTAGE(V) | 120 | □ down(%) | 100.0 | 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:2021-10-18

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

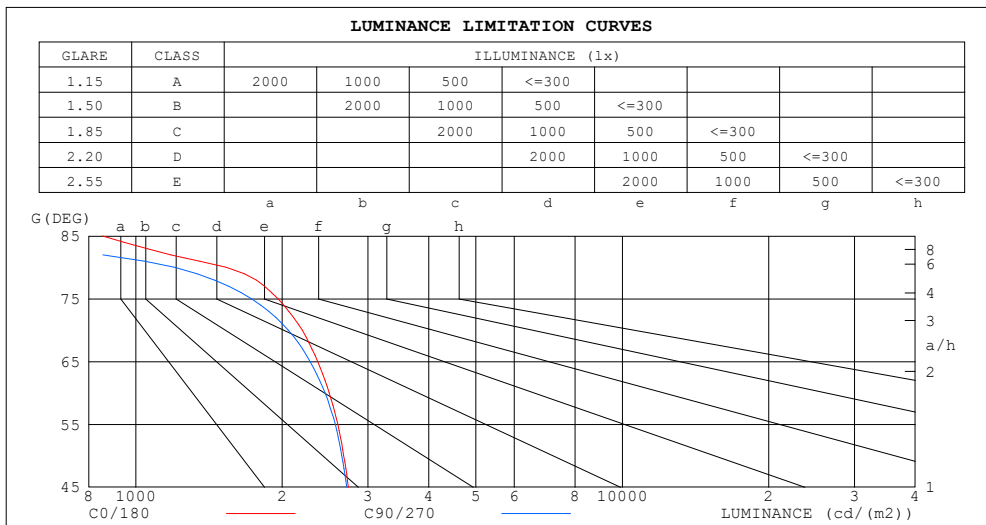
| ° | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | ° | □ zone | □ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|------------|
| 10 | 326.2 | 325.9 | 325.8 | 325.9 | 326.3 | 326.7 | 326.8 | 326.7 | 0- 10 | 31.46 | 31.46 | 3.46,3.46 |
| 20 | 307.0 | 306.3 | 306.2 | 306.5 | 307.1 | 307.8 | 308.3 | 308.0 | 10- 20 | 89.76 | 121.2 | 13.3,13.3 |
| 30 | 276.7 | 275.6 | 275.5 | 276.0 | 276.8 | 277.7 | 278.6 | 278.2 | 20- 30 | 135.1 | 256.3 | 28.2,28.2 |
| 40 | 237.3 | 235.8 | 235.9 | 236.5 | 237.5 | 238.8 | 239.9 | 239.5 | 30- 40 | 161.5 | 417.8 | 46,46 |
| 50 | 191.0 | 189.3 | 189.4 | 190.2 | 191.7 | 193.2 | 194.7 | 194.1 | 40- 50 | 166.1 | 584.0 | 64.3,64.3 |
| 60 | 138.7 | 136.7 | 136.1 | 137.5 | 139.3 | 140.9 | 141.8 | 141.8 | 50- 60 | 148.5 | 732.5 | 80.6,80.6 |
| 70 | 83.47 | 80.30 | 78.24 | 81.15 | 83.69 | 83.81 | 82.89 | 84.45 | 60- 70 | 109.6 | 842.0 | 92.7,92.7 |
| 80 | 29.60 | 26.22 | 23.24 | 26.77 | 30.41 | 28.98 | 26.63 | 29.22 | 70- 80 | 57.35 | 899.4 | 99,99 |
| 90 | 0.1384 | 0.1312 | 0.1232 | 0.1319 | 0.2355 | 0.2153 | 0.2063 | 0.2217 | 80- 90 | 9.023 | 908.4 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 854 | 141 |
| 80 | 1535 | 1204 |
| 75 | 1960 | 1730 |
| 70 | 2198 | 2059 |
| 65 | 2366 | 2282 |
| 60 | 2498 | 2449 |
| 55 | 2601 | 2571 |
| 50 | 2676 | 2652 |
| 45 | 2736 | 2715 |

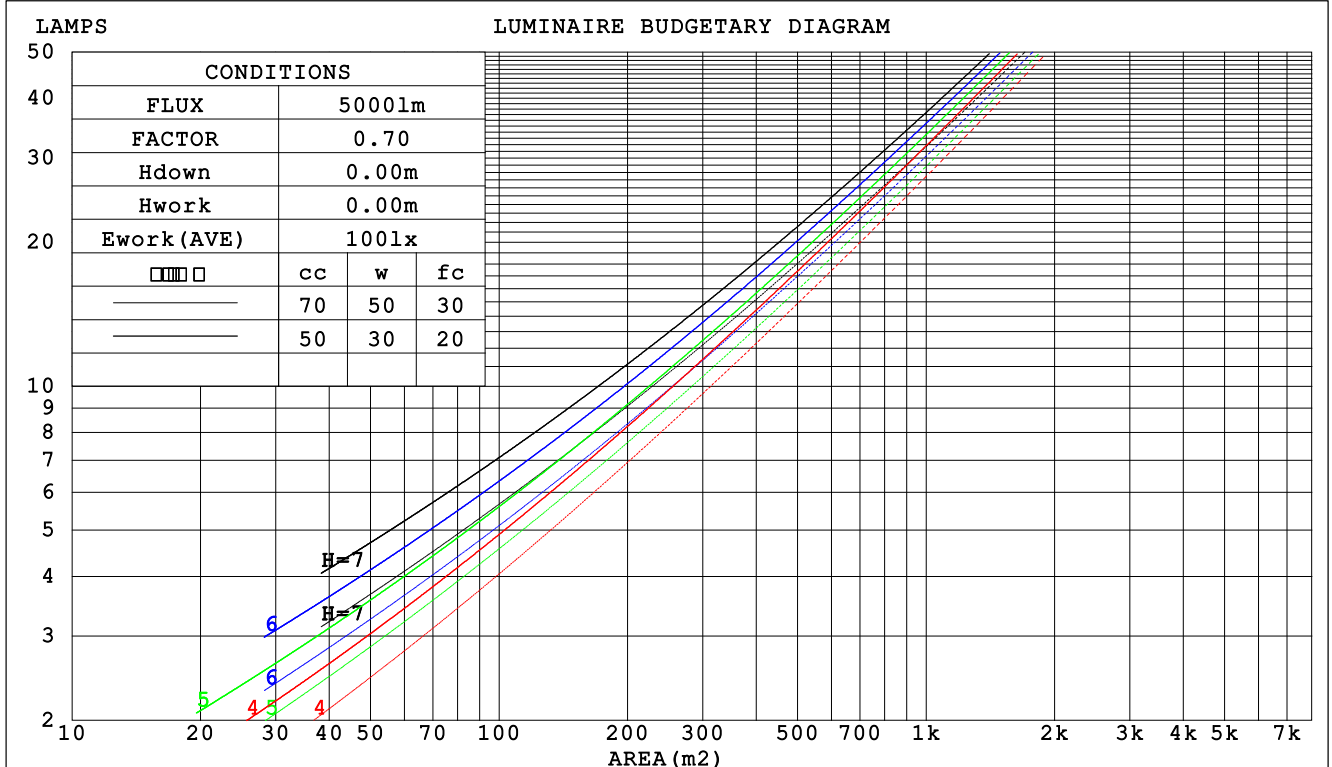
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| □cc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| □w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| □fc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| 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 | 1.00 |
| 1.0 | 1.05 | 1.00 | .97 | 1.02 | .99 | .95 | .98 | .95 | .92 | .94 | .92 | .89 | .91 | .89 | .87 | .85 |
| 2.0 | .91 | .85 | .79 | .89 | .83 | .78 | .86 | .81 | .76 | .83 | .78 | .75 | .80 | .76 | .73 | .71 |
| 3.0 | .80 | .72 | .66 | .79 | .71 | .65 | .76 | .69 | .64 | .73 | .68 | .63 | .70 | .66 | .62 | .60 |
| 4.0 | .71 | .62 | .56 | .70 | .62 | .55 | .67 | .60 | .55 | .65 | .59 | .54 | .63 | .58 | .53 | .51 |
| 5.0 | .64 | .55 | .48 | .62 | .54 | .48 | .60 | .53 | .47 | .58 | .52 | .47 | .57 | .51 | .46 | .44 |
| 6.0 | .57 | .48 | .42 | .56 | .48 | .42 | .55 | .47 | .41 | .53 | .46 | .41 | .51 | .45 | .41 | .39 |
| 7.0 | .52 | .43 | .37 | .51 | .43 | .37 | .50 | .42 | .37 | .48 | .41 | .36 | .47 | .41 | .36 | .34 |
| 8.0 | .47 | .39 | .33 | .47 | .39 | .33 | .45 | .38 | .33 | .44 | .37 | .33 | .43 | .37 | .32 | .30 |
| 9.0 | .44 | .35 | .30 | .43 | .35 | .30 | .42 | .35 | .30 | .41 | .34 | .29 | .40 | .34 | .29 | .27 |
| 10.0 | .40 | .32 | .27 | .40 | .32 | .27 | .39 | .32 | .27 | .38 | .31 | .27 | .37 | .31 | .27 | .25 |



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

□ Range: 0 - 90DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

| | | | | | | |
|-----------------------------|--|----------------|----------------|----------------|----------------|---|
| <input type="checkbox"/> cc | 80% | 70% | 50% | 30% | 10% | 0 |
| <input type="checkbox"/> w | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 0 |
| <input type="checkbox"/> fc | 20% | 20% | 20% | 20% | 20% | 0 |
| RCR | RCR:Room Cavity Ratio Wall Exitance Coefficients (WEC) | | | | | |
| 0.0 | | | | | | |
| 1.0 | .296 .168 .053 | .289 .165 .052 | .276 .158 .051 | .264 .152 .049 | .253 .146 .047 | |
| 2.0 | .283 .155 .048 | .277 .153 .047 | .265 .148 .046 | .255 .143 .045 | .245 .138 .044 | |
| 3.0 | .264 .141 .042 | .259 .138 .042 | .248 .135 .041 | .239 .131 .040 | .230 .127 .039 | |
| 4.0 | .245 .127 .037 | .240 .126 .037 | .231 .122 .037 | .222 .119 .036 | .215 .117 .036 | |
| 5.0 | .227 .116 .034 | .223 .114 .033 | .215 .112 .033 | .207 .109 .033 | .200 .107 .032 | |
| 6.0 | .211 .106 .030 | .207 .105 .030 | .200 .103 .030 | .193 .100 .030 | .187 .098 .029 | |
| 7.0 | .197 .097 .028 | .193 .096 .027 | .187 .094 .027 | .181 .093 .027 | .175 .091 .027 | |
| 8.0 | .184 .090 .025 | .181 .089 .025 | .175 .088 .025 | .170 .086 .025 | .165 .085 .025 | |
| 9.0 | .173 .083 .023 | .170 .083 .023 | .165 .081 .023 | .160 .080 .023 | .155 .079 .023 | |
| 10.0 | .162 .078 .022 | .160 .077 .022 | .155 .076 .021 | .151 .075 .021 | .147 .074 .021 | |

| | | | | | | |
|-----------------------------|---|----------------|----------------|----------------|----------------|---|
| <input type="checkbox"/> cc | 80% | 70% | 50% | 30% | 10% | 0 |
| <input type="checkbox"/> w | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 50% 30% 10% | 0 |
| <input type="checkbox"/> fc | 20% | 20% | 20% | 20% | 20% | 0 |
| RCR | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients (CCEC) | | | | | |
| 0.0 | .190 .190 .190 | .163 .163 .163 | .111 .111 .111 | .064 .064 .064 | .020 .020 .020 | |
| 1.0 | .179 .156 .135 | .153 .134 .117 | .105 .092 .081 | .060 .053 .047 | .019 .017 .015 | |
| 2.0 | .171 .132 .099 | .147 .114 .086 | .100 .079 .060 | .058 .046 .035 | .019 .015 .011 | |
| 3.0 | .163 .114 .075 | .140 .099 .065 | .096 .068 .046 | .056 .040 .027 | .018 .013 .009 | |
| 4.0 | .156 .101 .059 | .134 .087 .051 | .092 .061 .036 | .053 .036 .021 | .017 .012 .007 | |
| 5.0 | .148 .090 .048 | .127 .078 .041 | .088 .055 .029 | .051 .032 .017 | .016 .010 .006 | |
| 6.0 | .141 .082 .040 | .122 .071 .034 | .084 .050 .024 | .049 .029 .014 | .016 .010 .005 | |
| 7.0 | .135 .075 .033 | .116 .065 .029 | .080 .046 .021 | .046 .027 .012 | .015 .009 .004 | |
| 8.0 | .128 .069 .029 | .110 .060 .025 | .076 .042 .018 | .044 .025 .011 | .014 .008 .004 | |
| 9.0 | .122 .064 .025 | .105 .056 .022 | .073 .039 .016 | .042 .023 .009 | .014 .008 .003 | |
| 10.0 | .117 .060 .023 | .101 .052 .020 | .070 .037 .014 | .041 .022 .008 | .013 .007 .003 | |

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

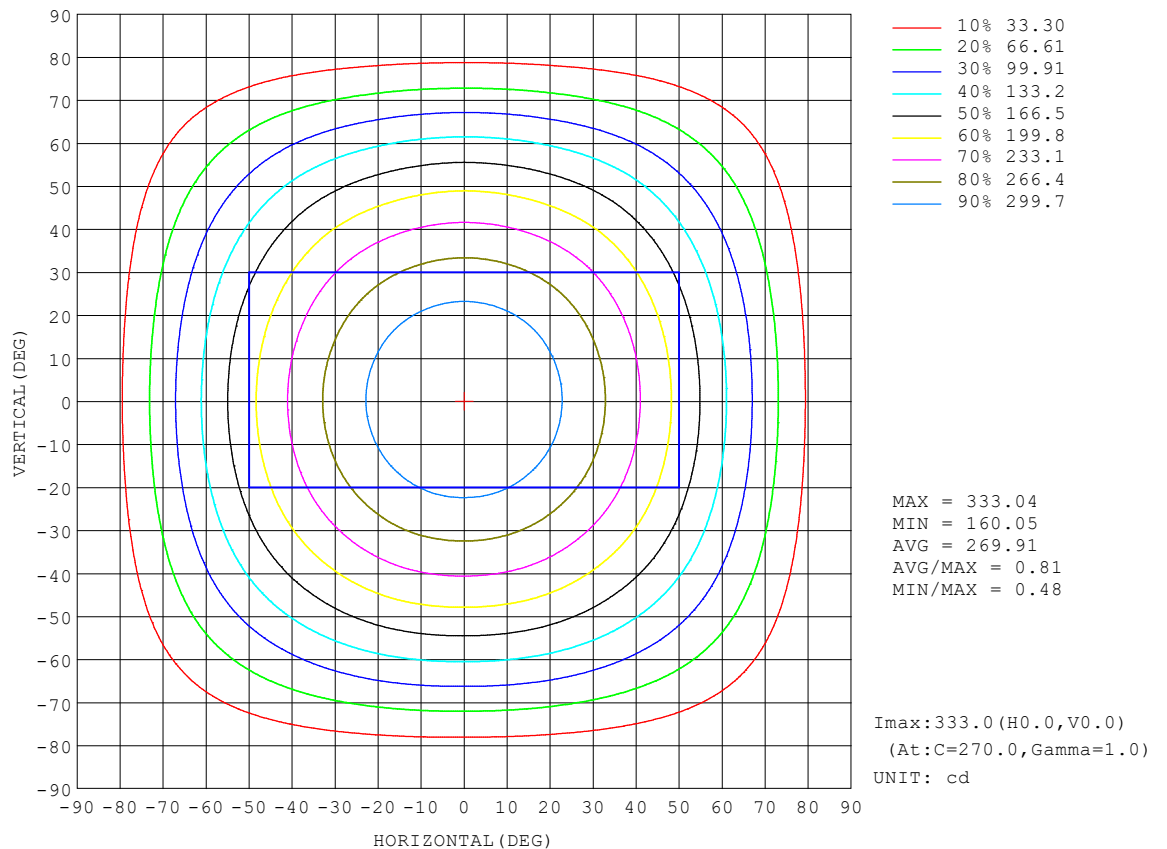
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 58 | 47 | 40 | 57 | 47 | 40 | 56 | 46 | 40 | 33 |
| 0.80 | 68 | 57 | 50 | 67 | 56 | 49 | 66 | 56 | 49 | 42 |
| 1.00 | 77 | 66 | 59 | 76 | 65 | 58 | 73 | 67 | 58 | 51 |
| 1.25 | 84 | 74 | 67 | 83 | 73 | 66 | 80 | 72 | 66 | 58 |
| 1.50 | 89 | 79 | 72 | 87 | 78 | 72 | 84 | 77 | 71 | 64 |
| 2.00 | 96 | 87 | 81 | 94 | 86 | 80 | 91 | 84 | 79 | 71 |
| 2.50 | 100 | 92 | 86 | 98 | 91 | 85 | 94 | 88 | 83 | 75 |
| 3.00 | 103 | 96 | 91 | 101 | 95 | 90 | 97 | 92 | 88 | 79 |
| 4.00 | 107 | 101 | 97 | 104 | 100 | 96 | 100 | 96 | 93 | 84 |
| 5.00 | 109 | 105 | 101 | 107 | 103 | 99 | 102 | 99 | 96 | 87 |
| 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:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

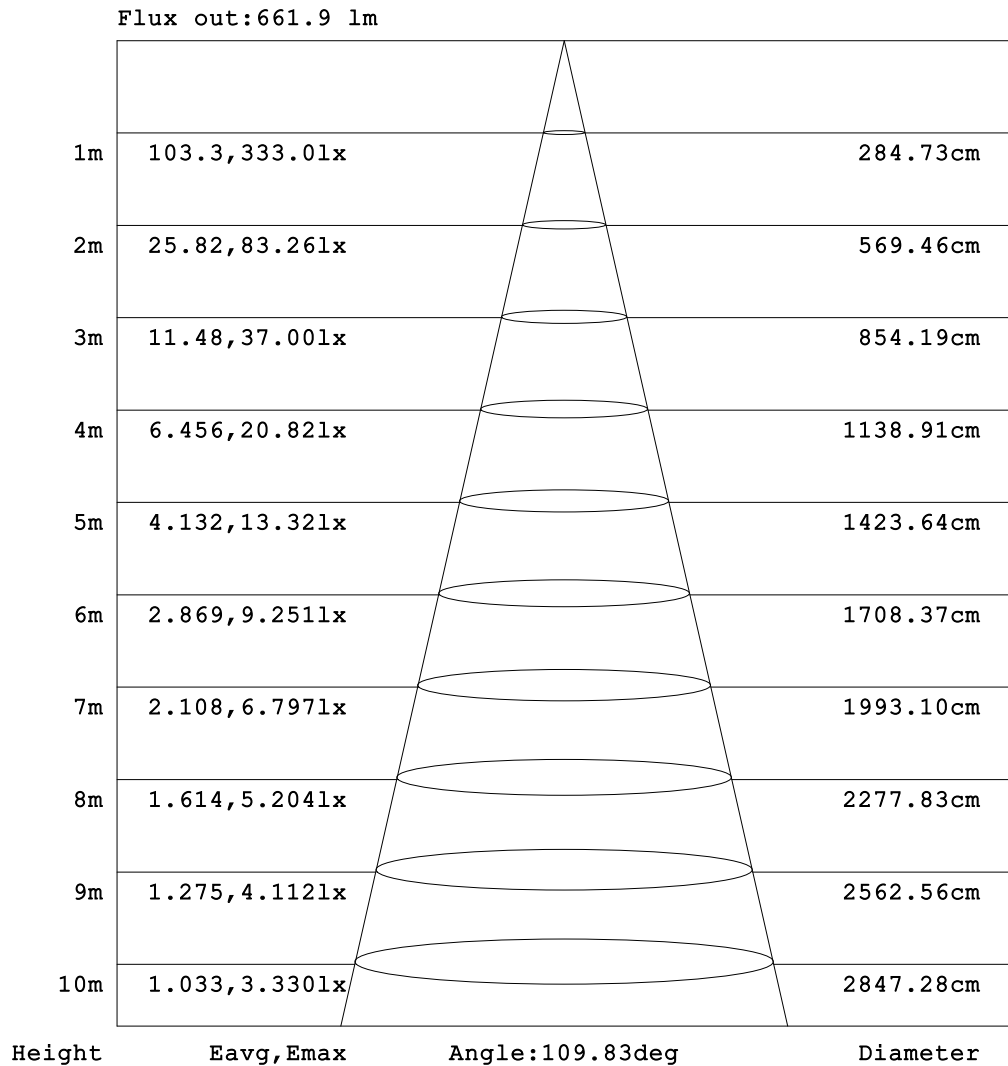


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



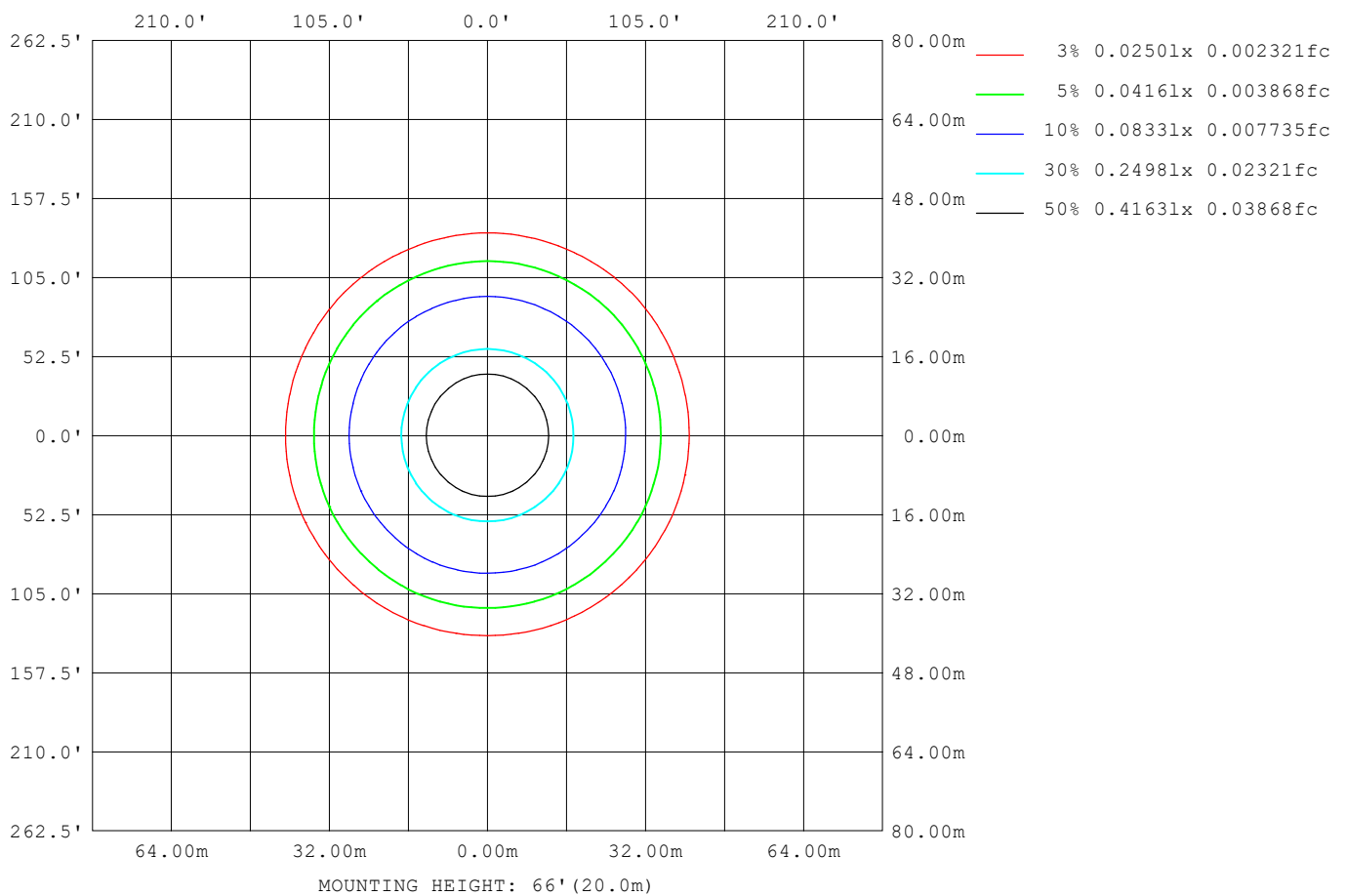
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|--|-------|------------------|
| Test:U:120.01V I:0.1236A P:11.434W PF:0.9232 Freq:59.98Hz Lamp Flux:908.407x1 lm | | |
| NAME: RSD-6-TUN-WH | TYPE: | WEIGHT: |
| SPEC.:4000K 90 | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | Shielding Angle: |

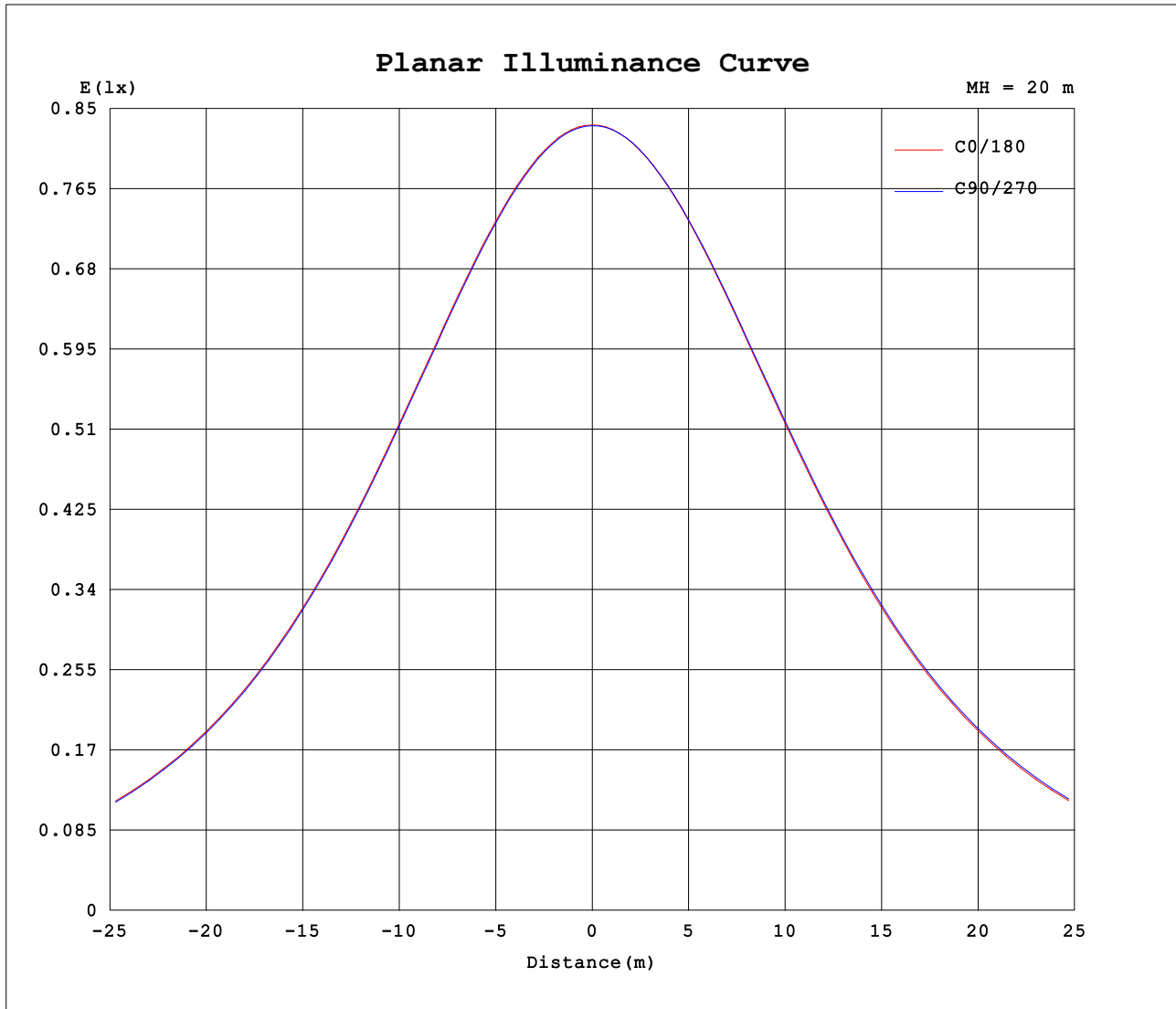
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 2369 |
| L_0~180 (75) av | 1964 |
| L_0~180 (85) av | 883 |
| L_90~270 (65) av | 2340 |
| L_90~270 (75) av | 1801 |
| L_90~270 (85) av | 189 |
| L_45 (65) av | 2363 |
| L_45 (75) av | 1885 |
| L_45 (85) av | 510 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-10-18

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

☐ Range: 0 - 90DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks: