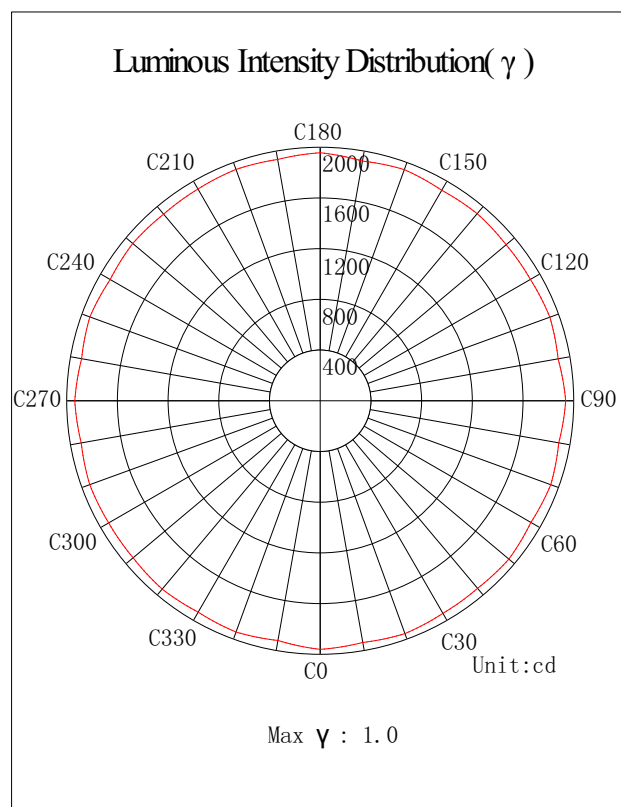
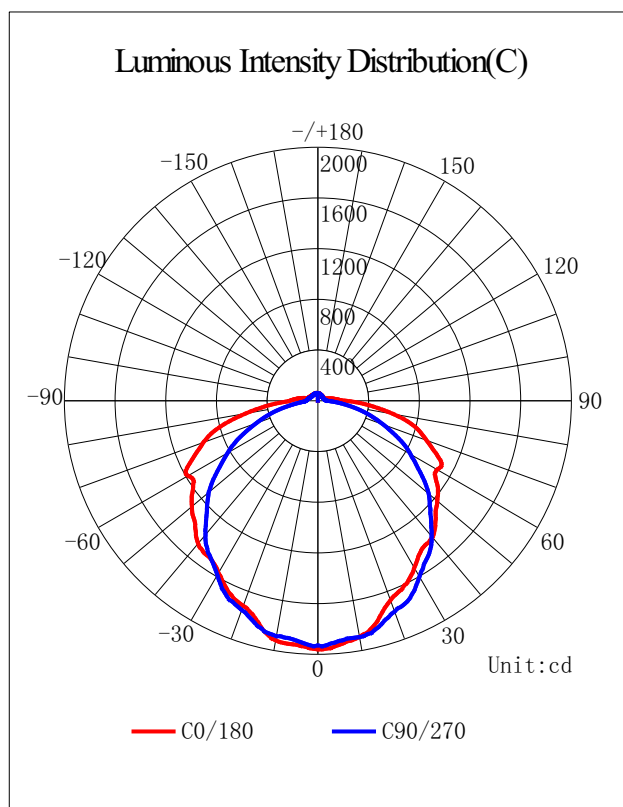


SSP6316-D50: Lamp Space Intensity Distribution

Photometric Data of Luminaire

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |

| Lamp Test Data | | | |
|--------------------|-------------------|-----------------|----------------|
| Lamp Flux: | 6549.24 lm | Center Cd.: | 1928.2 cd |
| Max(C, γ): | (0, 1.0) | Maximum Cd.: | 1961.1 cd |
| BeamAngle(50%): | 136.0 Deg | BeamAngle(10%): | 183.0 Deg |
| Flux(0-90): | 6127.05 lm(93.6%) | Flux(90-180): | 422.2 lm(6.4%) |
| LuminousEfficacy: | 105.12 lm/W | | |



| | | | | | |
|----------------|----------|--------------------|------------|-----------|----------|
| C Angle Range: | 0-360Deg | γ Range: | 0-180Deg | Test No.: | 001 |
| C Precious: | 10 Deg | γ Precious: | 1 Deg | Tester: | QA Shan |
| Distance: | 5.000 m | Date: | 2016-06-04 | Time: | 14:16:45 |
| Other: | | | | | |

SSP6316-D50: Lamp Space Intensity Distribution

Zonal Flux Diagram

Zonal Flux Diagram:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Fzone | Ftotal | %lamp | %lum |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------|---------|--------|--------|
| 10 | 1891.2 | 1884.8 | 1892.9 | 1915.6 | 1918.5 | 1915.1 | 1885.3 | 1871.2 | 0-10 | 182.61 | 182.61 | 2.79 | 2.79 |
| 20 | 1674.5 | 1729.8 | 1769.5 | 1764.4 | 1721.7 | 1742.0 | 1756.6 | 1686.9 | 10-20 | 514.04 | 696.65 | 10.64 | 10.64 |
| 30 | 1521.3 | 1523.3 | 1602.6 | 1546.5 | 1568.4 | 1543.5 | 1586.5 | 1499.0 | 20-30 | 760.82 | 1457.47 | 22.26 | 22.26 |
| 40 | 1406.2 | 1312.1 | 1395.5 | 1342.2 | 1469.8 | 1347.3 | 1379.4 | 1300.5 | 30-40 | 912.37 | 2369.84 | 36.19 | 36.19 |
| 50 | 1229.2 | 1104.7 | 1141.1 | 1161.4 | 1297.4 | 1195.5 | 1124.3 | 1117.9 | 40-50 | 974.35 | 3344.18 | 51.07 | 51.07 |
| 60 | 1087.2 | 898.6 | 843.9 | 962.5 | 1183.3 | 986.7 | 821.5 | 901.7 | 50-60 | 937.83 | 4282.01 | 65.39 | 65.39 |
| 70 | 912.2 | 743.6 | 549.6 | 788.7 | 961.9 | 827.4 | 517.5 | 757.4 | 60-70 | 845.29 | 5127.29 | 78.29 | 78.29 |
| 80 | 606.0 | 523.2 | 272.6 | 554.2 | 578.8 | 525.5 | 236.1 | 490.5 | 70-80 | 656.35 | 5783.64 | 88.32 | 88.32 |
| 90 | 220.8 | 168.1 | 76.0 | 185.8 | 222.8 | 170.9 | 94.6 | 159.7 | 80-90 | 343.40 | 6127.05 | 93.56 | 93.56 |
| 100 | 102.5 | 64.0 | 55.9 | 72.3 | 124.9 | 85.7 | 78.8 | 80.8 | 90-100 | 126.87 | 6253.92 | 95.50 | 95.50 |
| 110 | 51.9 | 47.2 | 49.2 | 48.6 | 75.6 | 70.2 | 68.3 | 67.4 | 100-110 | 70.93 | 6324.85 | 96.58 | 96.58 |
| 120 | 49.8 | 44.4 | 46.3 | 46.2 | 67.0 | 63.5 | 61.4 | 60.0 | 110-120 | 56.54 | 6381.39 | 97.44 | 97.44 |
| 130 | 49.5 | 43.5 | 46.2 | 46.4 | 62.9 | 59.9 | 58.7 | 56.1 | 120-130 | 47.86 | 6429.25 | 98.17 | 98.17 |
| 140 | 50.1 | 44.3 | 47.7 | 48.4 | 61.2 | 59.5 | 58.2 | 54.2 | 130-140 | 40.45 | 6469.70 | 98.79 | 98.79 |
| 150 | 51.5 | 46.4 | 50.0 | 51.1 | 60.5 | 60.2 | 58.2 | 53.8 | 140-150 | 33.18 | 6502.87 | 99.30 | 99.30 |
| 160 | 54.0 | 50.0 | 52.8 | 53.5 | 60.0 | 60.3 | 58.4 | 54.7 | 150-160 | 25.15 | 6528.03 | 99.68 | 99.68 |
| 170 | 56.4 | 54.2 | 55.6 | 55.0 | 59.4 | 59.0 | 58.4 | 55.9 | 160-170 | 15.83 | 6543.86 | 99.92 | 99.92 |
| 180 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 170-180 | 5.38 | 6549.24 | 100.01 | 100.01 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | | |

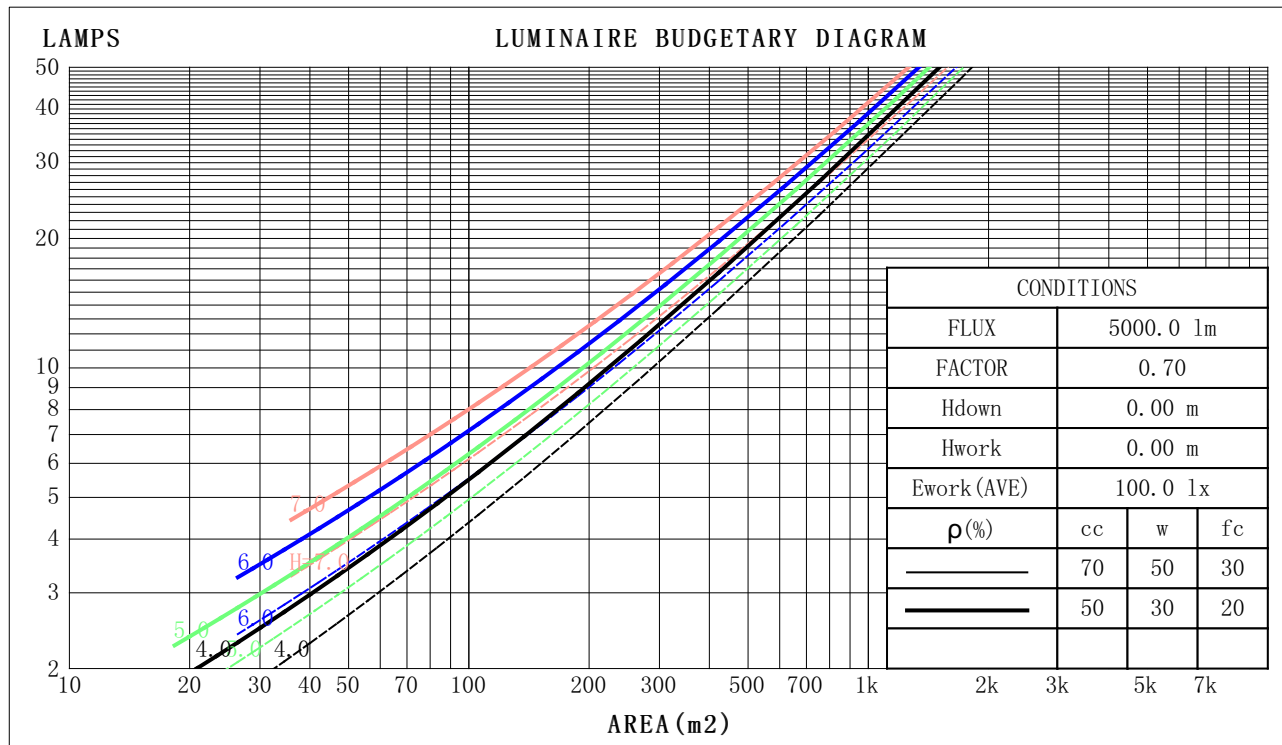
| | | | | | |
|----------------|----------|--------------------|------------|------------|----------|
| C Angle Range: | 0-360Deg | γ Range: | 0-180Deg | Test No. : | 001 |
| C Precious: | 10 Deg | γ Precious: | 1 Deg | Tester: | QA Shan |
| Distance: | 5.000 m | Date: | 2016-06-04 | Time: | 14:16:45 |
| Other: | | | | | |

SSP6316-D50: Lamp Space Intensity Distribution

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |

| ρ_{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| ρ_w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ_{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.18 | 1.18 | 1.18 | 1.14 | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | 1.02 | 1.02 | 1.02 | .96 | .96 | .96 | .94 |
| 1.0 | 1.00 | .94 | .90 | .97 | .92 | .88 | .91 | .87 | .84 | .86 | .83 | .80 | .81 | .79 | .77 | .74 |
| 2.0 | .85 | .78 | .71 | .83 | .76 | .70 | .78 | .72 | .67 | .74 | .69 | .65 | .70 | .66 | .62 | .60 |
| 3.0 | .74 | .65 | .58 | .72 | .64 | .57 | .68 | .61 | .56 | .65 | .59 | .54 | .61 | .56 | .52 | .49 |
| 4.0 | .65 | .56 | .49 | .64 | .55 | .48 | .60 | .53 | .47 | .57 | .51 | .45 | .54 | .49 | .44 | .42 |
| 5.0 | .58 | .49 | .42 | .57 | .48 | .41 | .54 | .46 | .40 | .51 | .44 | .39 | .49 | .43 | .38 | .36 |
| 6.0 | .52 | .43 | .36 | .51 | .42 | .36 | .48 | .41 | .35 | .46 | .39 | .34 | .44 | .38 | .33 | .31 |
| 7.0 | .47 | .38 | .32 | .46 | .38 | .32 | .44 | .36 | .31 | .42 | .35 | .30 | .40 | .34 | .29 | .27 |
| 8.0 | .43 | .34 | .28 | .42 | .34 | .28 | .40 | .33 | .27 | .38 | .32 | .27 | .37 | .31 | .26 | .24 |
| 9.0 | .40 | .31 | .25 | .39 | .31 | .25 | .37 | .30 | .25 | .35 | .29 | .24 | .34 | .28 | .24 | .22 |
| 10.0 | .36 | .28 | .23 | .36 | .28 | .23 | .34 | .27 | .22 | .33 | .26 | .22 | .32 | .26 | .22 | .20 |



C Angle Range: 0-360Deg γ Range: 0-180Deg Test No.: 001
 C Precious: 10 Deg γ Precious: 1 Deg Tester: QA Shan
 Distance: 5.000 m Date: 2016-06-04 Time: 14:16:45
 Other:



SSP6316-D50: Lamp Space Intensity Distribution

WEC AND CCEC

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |

| ρ _{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| ρ _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ _{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC) | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .363 | .207 | .065 | .354 | .202 | .064 | .337 | .193 | .062 | .321 | .185 | .059 | .307 | .178 | .057 | |
| 2.0 | .324 | .178 | .055 | .316 | .174 | .054 | .301 | .167 | .052 | .287 | .161 | .050 | .273 | .155 | .049 | |
| 3.0 | .292 | .155 | .047 | .285 | .152 | .046 | .271 | .147 | .045 | .258 | .141 | .043 | .246 | .136 | .042 | |
| 4.0 | .265 | .137 | .040 | .258 | .135 | .040 | .246 | .130 | .039 | .234 | .126 | .038 | .224 | .121 | .037 | |
| 5.0 | .242 | .123 | .036 | .236 | .121 | .035 | .225 | .117 | .034 | .214 | .113 | .034 | .205 | .109 | .033 | |
| 6.0 | .222 | .111 | .032 | .217 | .109 | .031 | .207 | .106 | .031 | .197 | .103 | .030 | .189 | .099 | .029 | |
| 7.0 | .205 | .101 | .029 | .200 | .100 | .028 | .191 | .097 | .028 | .183 | .094 | .027 | .175 | .091 | .027 | |
| 8.0 | .190 | .093 | .026 | .186 | .092 | .026 | .178 | .089 | .025 | .170 | .086 | .025 | .163 | .084 | .024 | |
| 9.0 | .178 | .086 | .024 | .174 | .085 | .024 | .166 | .082 | .023 | .159 | .080 | .023 | .153 | .078 | .022 | |
| 10.0 | .166 | .080 | .022 | .163 | .079 | .022 | .156 | .076 | .022 | .150 | .074 | .021 | .144 | .072 | .021 | |

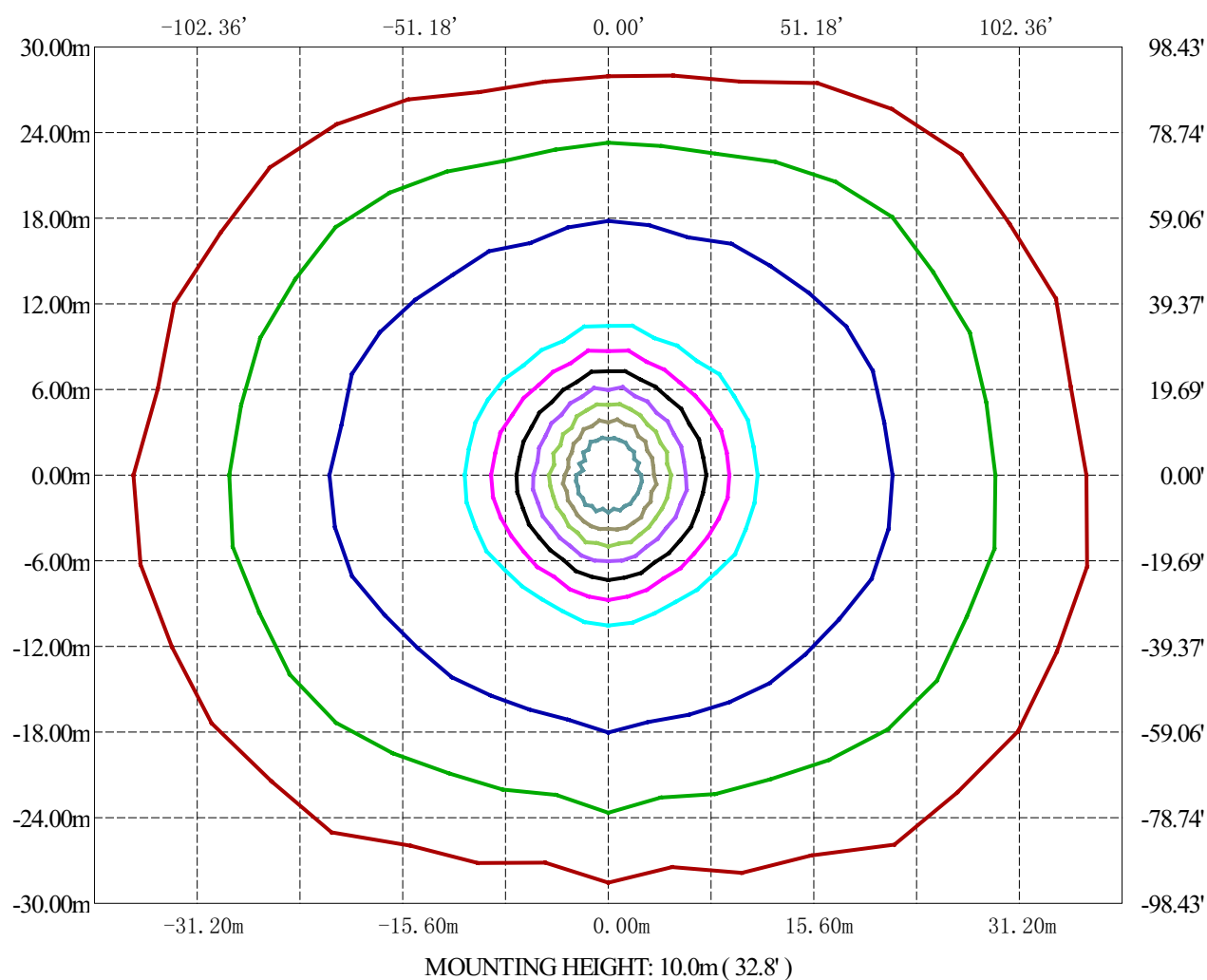
| ρ _{cc} | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|-----------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| ρ _w | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| ρ _{fc} | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | | | | | | | |
| 0.0 | .240 | .240 | .240 | .205 | .205 | .205 | .140 | .140 | .140 | .080 | .080 | .080 | .026 | .026 | .026 | |
| 1.0 | .234 | .205 | .180 | .200 | .176 | .155 | .137 | .121 | .107 | .079 | .070 | .062 | .025 | .023 | .020 | |
| 2.0 | .226 | .182 | .144 | .194 | .156 | .124 | .133 | .108 | .087 | .077 | .063 | .051 | .025 | .020 | .017 | |
| 3.0 | .219 | .165 | .121 | .188 | .142 | .105 | .129 | .099 | .074 | .074 | .058 | .043 | .024 | .019 | .014 | |
| 4.0 | .211 | .152 | .106 | .181 | .131 | .092 | .125 | .091 | .065 | .072 | .053 | .038 | .023 | .017 | .013 | |
| 5.0 | .203 | .142 | .096 | .175 | .122 | .084 | .120 | .086 | .059 | .070 | .050 | .035 | .022 | .016 | .012 | |
| 6.0 | .196 | .133 | .089 | .168 | .115 | .077 | .116 | .081 | .055 | .067 | .048 | .032 | .022 | .016 | .011 | |
| 7.0 | .189 | .127 | .083 | .162 | .110 | .072 | .112 | .077 | .051 | .065 | .045 | .031 | .021 | .015 | .010 | |
| 8.0 | .182 | .121 | .079 | .157 | .105 | .069 | .108 | .074 | .049 | .063 | .043 | .029 | .020 | .014 | .010 | |
| 9.0 | .175 | .116 | .076 | .151 | .101 | .066 | .105 | .071 | .047 | .061 | .042 | .028 | .020 | .014 | .009 | |
| 10.0 | .170 | .112 | .073 | .146 | .097 | .064 | .101 | .068 | .045 | .059 | .040 | .027 | .019 | .013 | .009 | |

C Angle Range: 0-360Deg γ Range: 0-180Deg Test No.: 001
 C Precious: 10 Deg γ Precious: 1 Deg Tester: QA Shan
 Distance: 5.000 m Date: 2016-06-04 Time: 14:16:45
 Other:

SSP6316-D50: Lamp Space Intensity Distribution

ISOLUX Diagram

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |



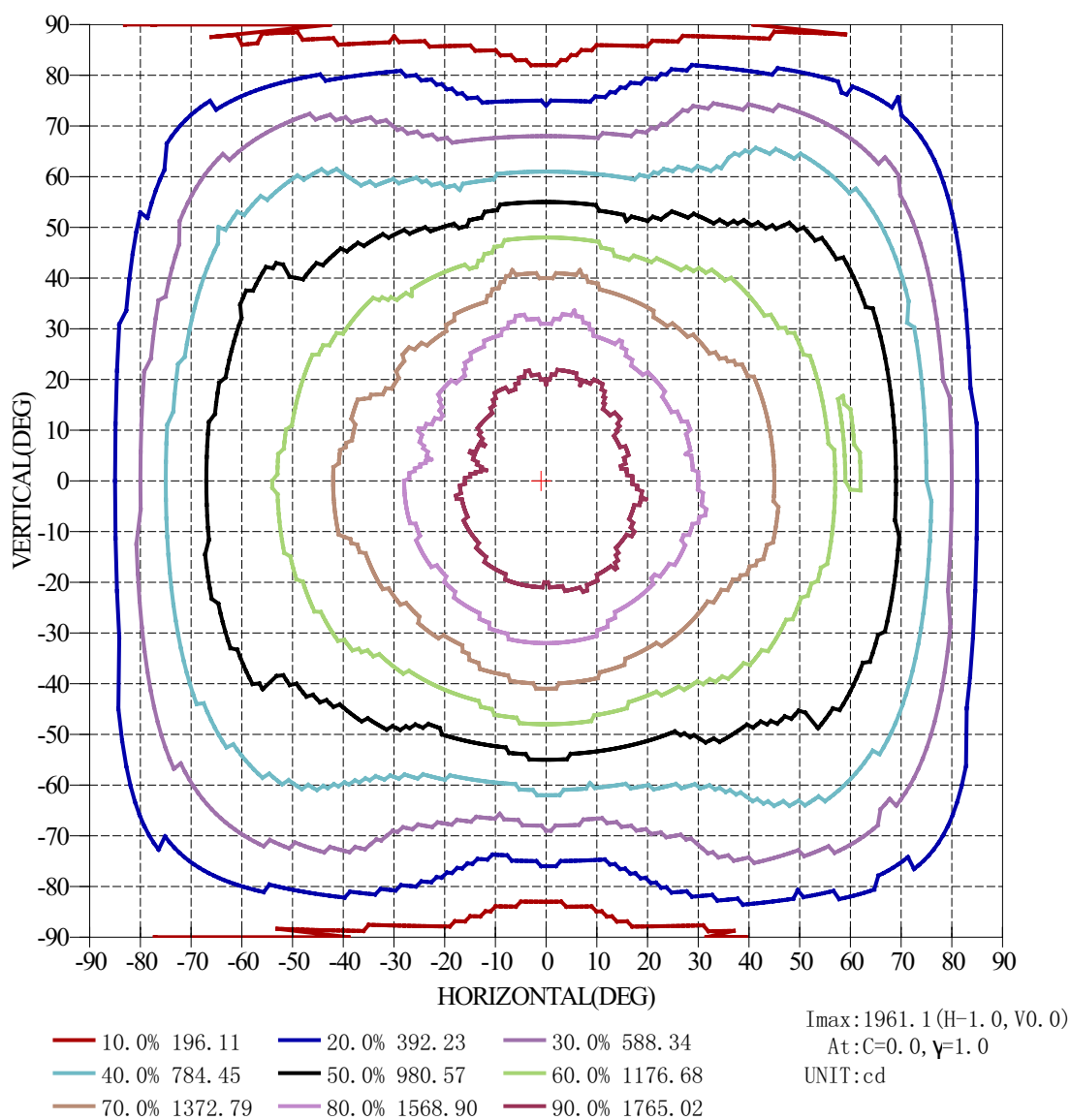
| | | |
|--------------------------|--------------------------|--------------------------|
| 3.0% 0.5785lx 0.0537fc | 5.0% 0.9641lx 0.0896fc | 10.0% 1.9282lx 0.1791fc |
| 30.0% 5.7847lx 0.5374fc | 40.0% 7.7130lx 0.7165fc | 50.0% 9.6412lx 0.8957fc |
| 60.0% 11.5691lx 1.0748fc | 70.0% 13.4981lx 1.2539fc | 80.0% 15.4261lx 1.4331fc |
| 90.0% 17.3541lx 1.6122fc | | |

| | | | | | |
|----------------|----------|-------------|------------|------------|----------|
| C Angle Range: | 0-360Deg | γ Range: | 0-180Deg | Test No. : | 001 |
| C Precious: | 10 Deg | γ Precious: | 1 Deg | Tester: | QA Shan |
| Distance: | 5.000 m | Date: | 2016-06-04 | Time: | 14:16:45 |
| Other: | | | | | |

SSP6316-D50: Lamp Space Intensity Distribution

ISOCANDELA Diagram

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |

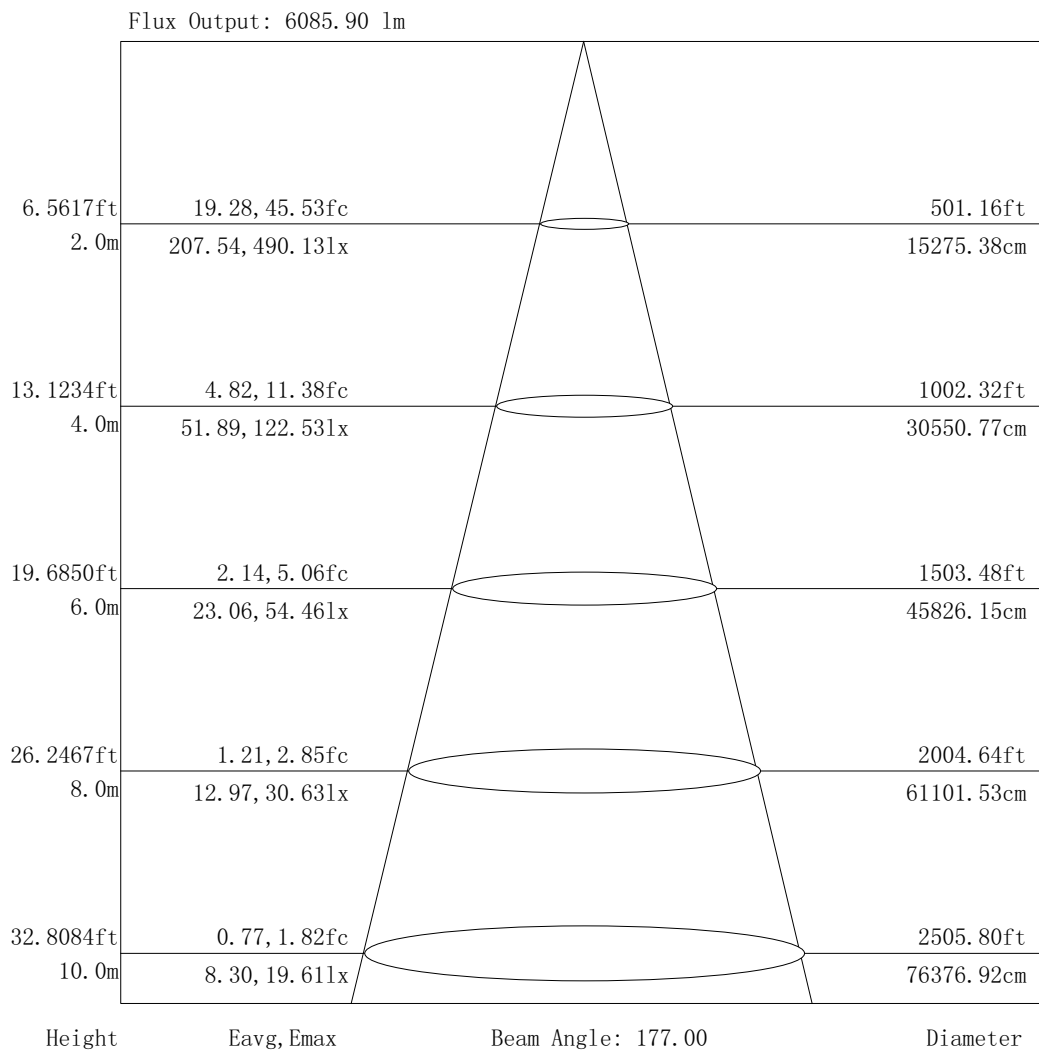


| | | | | | |
|----------------|----------|-------------|------------|-----------|----------|
| C Angle Range: | 0-360Deg | γ Range: | 0-180Deg | Test No.: | 001 |
| C Precious: | 10 Deg | γ Precious: | 1 Deg | Tester: | QA Shan |
| Distance: | 5.000 m | Date: | 2016-06-04 | Time: | 14:16:45 |
| Other: | | | | | |

SSP6316-D50: Lamp Space Intensity Distribution

Effective Average Illuminance Diagram

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |



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

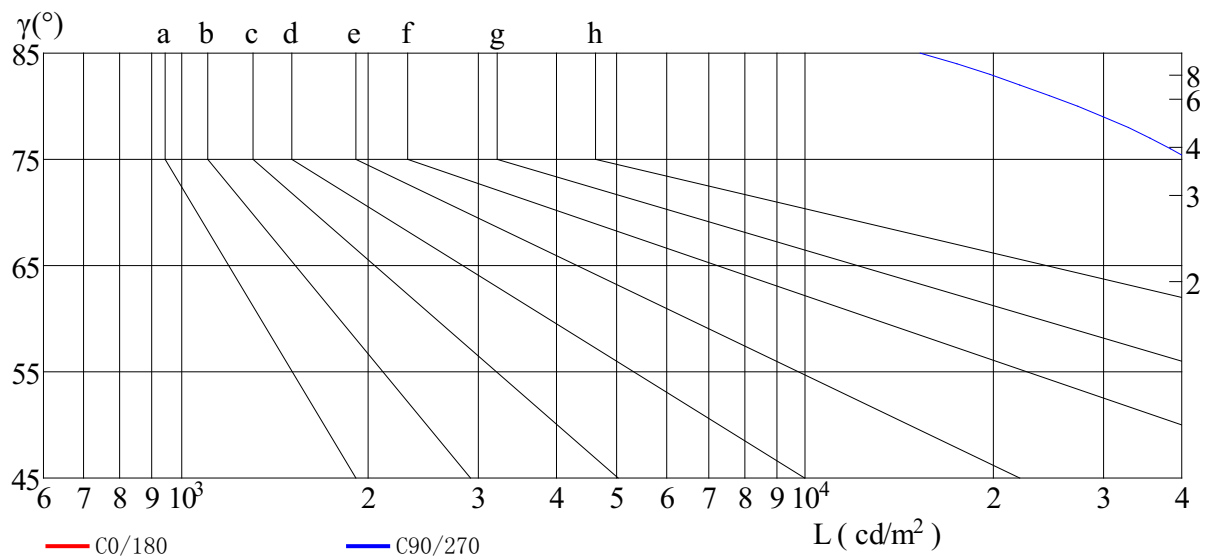
| | | | | | |
|----------------|----------|-------------|------------|-----------|----------|
| C Angle Range: | 0-360Deg | γ Range: | 0-180Deg | Test No.: | 001 |
| C Precious: | 10 Deg | γ Precious: | 1 Deg | Tester: | QA Shan |
| Distance: | 5.000 m | Date: | 2016-06-04 | Time: | 14:16:45 |
| Other: | | | | | |

SSP6316-D50: Lamp Space Intensity Distribution

Luminance Limitation Curves

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |



| C/Gama | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 | 45 | Unit |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| C0 | 40407 | 60595 | 79388 | 91215 | 104704 | 108717 | 114946 | 122921 | 131481 | cd/m2 |
| C90 | 15239 | 27261 | 41163 | 54965 | 70279 | 84388 | 98670 | 114115 | 125480 | |

C Angle Range: 0-360Deg γ Range: 0-180Deg Test No.: 001
 C Precious: 10 Deg γ Precious: 1 Deg Tester: QA Shan
 Distance: 5.000 m Date: 2016-06-04 Time: 14:16:45
 Other:

SSP6316-D50: Lamp Space Intensity Distribution Tester

UTILIZATION FACTORS TABLE

| Lamp Description | | | | | |
|------------------|-------------------------------|----------------|-------------|-----------------|-----------|
| Lamp Name: | POZEEN 4+4PCS SLT15P450-S | Lamp Des: | | Lamp Weight: | 0.010Kg |
| Manufac: | STARCO LIGHTING | Lamp Size(cm): | 0.0*0.0*0.0 | Light Area(cm): | 0.0*0.0 |
| Electrical: | U:278.300V I:0.244A P:62.300W | | | LuminareFlux: | 1*0.00 lm |

| REFLECTANCE | | | | | | | | | |
|-------------------------------|--|-----|-----------|-----|-----|-----|-------------|-----|-----|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| ROOM INDEX | UTILIZATION FACTORS (PERFECT) $k(RI) \times RCR = 5$ | | | | | | | | |
| $k = 0.60$ | 53 | 41 | 33 | 52 | 40 | 33 | 50 | 40 | 33 |
| 0.80 | 63 | 50 | 42 | 62 | 49 | 42 | 59 | 48 | 41 |
| 1.00 | 71 | 59 | 50 | 69 | 58 | 50 | 66 | 56 | 49 |
| 1.25 | 78 | 66 | 58 | 76 | 65 | 57 | 72 | 63 | 56 |
| 1.50 | 83 | 72 | 63 | 81 | 70 | 63 | 77 | 68 | 61 |
| 2.00 | 90 | 80 | 72 | 88 | 78 | 71 | 83 | 75 | 69 |
| 2.50 | 94 | 85 | 78 | 92 | 83 | 77 | 86 | 80 | 74 |
| 3.00 | 98 | 90 | 83 | 95 | 88 | 81 | 90 | 84 | 78 |
| 4.00 | 102 | 95 | 90 | 99 | 93 | 88 | 93 | 88 | 84 |
| 5.00 | 105 | 99 | 94 | 102 | 96 | 92 | 96 | 92 | 88 |
| ROOM INDEX | UF(total) | | | | | | | | |
| According to BS EN 13032-2004 | | | Suspended | | | | SHRNOM=1.25 | | |

| | | | | | |
|----------------|----------|-------------|------------|-----------|----------|
| C Angle Range: | 0-360Deg | γ Range: | 0-180Deg | Test No.: | 001 |
| C Precious: | 10 Deg | γ Precious: | 1 Deg | Tester: | QA Shan |
| Distance: | 5.000 m | Date: | 2016-06-04 | Time: | 14:16:45 |
| Other: | | | | | |