

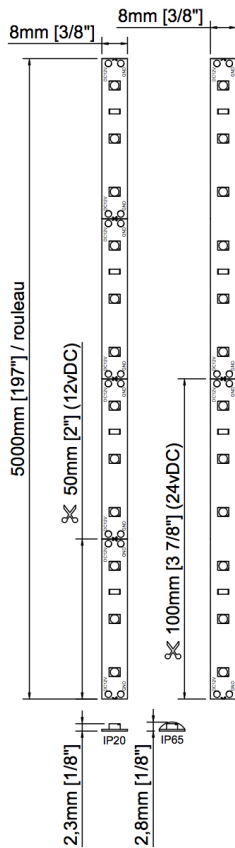
# TITANIUM

## TECHNOLOGY

TT-3528-L300



- 5m roll of SMD3528 LED Strip in 5 meter roll.



|               |  |  |
|---------------|--|--|
| Voltage       | <b>12vDC</b>   | <b>24vDC</b>   |
| LED/m         | 60 / m   |  |
| Power         | 5,8w / m<br>1,77w / feet<br>29w / roll   |  |
| Amperage      | 0,49A / m<br>0,15A / feet<br>2,42A / roll  | 0,25A / m<br>0,07A / feet<br>1,21A / roll  |
| Lumen         | 27K - 38 lm / feet<br>30K - 45 lm / feet<br>35K - 51 lm / feet<br>40K - 37 lm / feet<br>60K - 35 lm / feet   | 28 lm / w<br>32 lm / w<br>35 lm / w<br>28 lm / w<br>25 lm / w                    |
| CRI (RA)      | 90   |  |
| Angle         | 120°   |  |
| Size          | IP20   | 10mm x 2,3mm x 5000mm<br>$\frac{3}{8}$ " x $\frac{1}{8}$ " x 196 $\frac{7}{8}$ " |
|               | IP65   | 10mm x 2,8mm x 5000mm<br>$\frac{3}{8}$ " x $\frac{1}{8}$ " x 196 $\frac{7}{8}$ " |
|               | IP67   | 13mm x 5mm x 5000mm<br>$\frac{1}{2}$ " x $\frac{3}{16}$ " x 196 $\frac{7}{8}$ "  |
| Cut line      | 50 mm<br>2"  | 100 mm<br>4"   |
| Finish        | White  |  |
| Dimmable      | Yes  |  |
| LED Colour    | <b>27K</b> - Warm white 2700K<br><b>30K</b> - Warm white 3000K<br><b>35K</b> - Neutral white 3500K<br><b>40K</b> - Neutral white 4000K<br><b>60K</b> - Cold white 6000K<br><b>R</b> - Red<br><b>G</b> - Green<br><b>B</b> - Blue<br><b>A</b> - Amber |  |
| Working temp. | -40°C ~ 70°C   |  |
| IP            | <b>20, 65, 67</b>  |  |

### PRODUCT CODE

| TT | SMD  | LED PER ROLL | IP | LED COLOR | VOLTAGE |
|----|------|--------------|----|-----------|---------|
| TT | 3528 | L300         | 20 | 27K       | 24V     |
| TT | 3528 | L300         |    |           |         |

# IES Indoor Report

Photometric Filename:TT3528-L300-3500K-2-Frosted LENS.IES

## Indoor Luminaire Photometric Data

### Description Information

|   |                                 |                             |
|---|---------------------------------|-----------------------------|
| Luminaire Name: TT-3528-L300-3500k-2-Frosted lens | Luminaire Catalog:              | Test ID:                    |
| Lamp Name: TT-3528-L300-3500k-2-Frosted lens      | Lamp Catalog: 2216              | Test Date: 2021/03/18       |
| Manufacture: TITANIUM TECHNOLOGIE                 | ShieldingAngle(°):              | Test Machine: GON-2000      |
| Test Lab:   | Frequency(Hz):                  | Luminaire CCT(K):           |
| Luminaire Size(W*L*H): 0.120*0.304*0.060          | Lighting Area(m2): 0.055        | Luminaire Weight(kg): 0.100 |
| Test System: C, $\gamma$                          | Test Step: C=45.0 $\gamma$ =1.0 | Temperature(°C): 25         |
|   |                                 | Humidity(%):                |

### Character Parameter

| Lamp Speciality Parameter               |                                       |
|---|---------------------------------------|
| Lamp Rated Lumens(lm): 448.000          | Lamp Number in Luminaire: 1           |
| Lamp Norminal Power(W):                 | Lamp Rated Voltage(V):                |
| Lamp Tested Power(W): 1.445             | Lamp Tested Voltage(V): 12.3          |
| Lamp Tested Current(A): 0.117           | Lamp Tested PF:                       |
| Lamp Size(W*L*H): 0.120*0.304*0.060     |                                       |
| Luminaire Speciality                    |                                       |
| Luminaire Lumens(lm): 21.582            | Beam Angle(10%Imax): 71.4             |
| Luminaire Efficiency: 4.82%             | Left=-33.7 Right=37.8                 |
| Luminaire EER(lm/W): 14.936             | Field Angle(10%Imax): 103.4           |
| Muximum Cand.(cd): 17.287               | Spacing Criteria S/MH(C0_180): 1.038  |
| Max Cd. Angle(°): C=315.0 $\gamma$ =6.0 | Spacing Criteria S/MH(C90_270): 1.011 |
| Downward Lumens(lm): 21.582             | CIE Type: Semi-Direct                 |
| Upward Lumens(lm): 0.000                | ErP $\phi$ use(90deg): 19.340lm       |
| Downward Total Efficiency%: 100.00      | IRF(%): 174.736                       |
| Upward Total Efficiency%: 0.00          |                                       |

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## 2D Light Intensity Distribution Curve

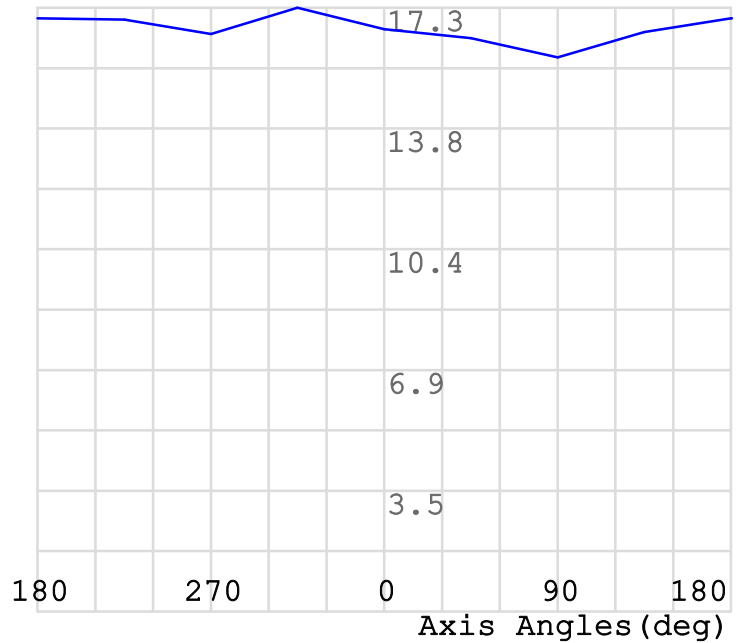
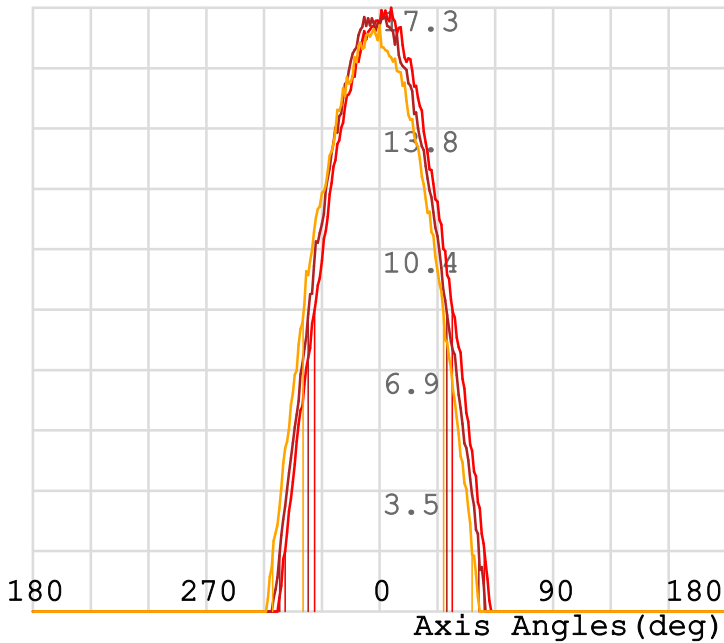
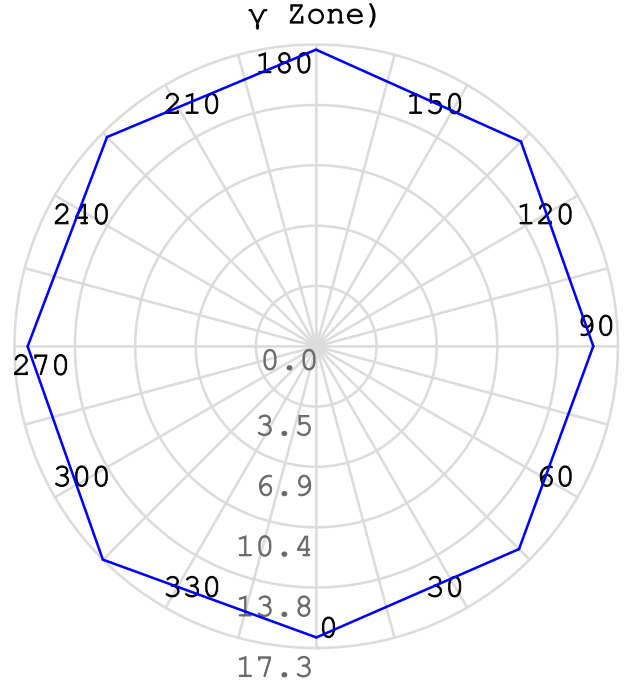
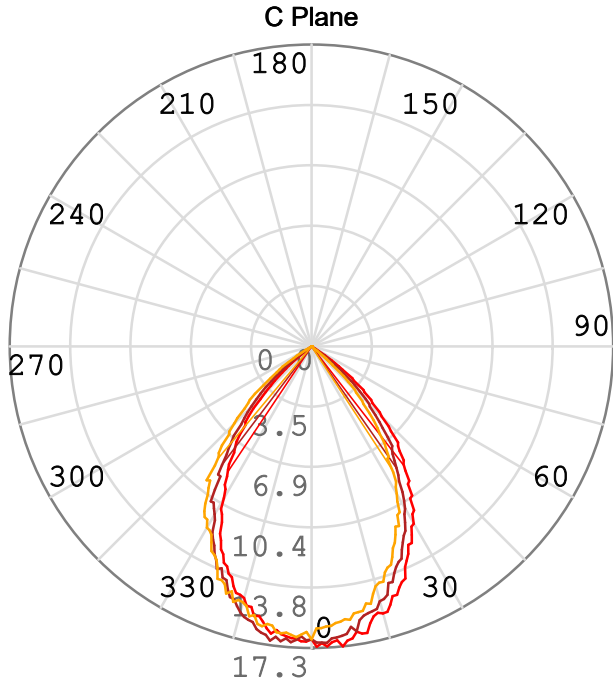
Plane [50%Ang.] [10%Ang.]

C315.0: 71.4 103.4

C0.0: 72.0 103.3

C90.0: 73.0 103.4

Polar Graph



C Plane: C315.0\_135.0 ——— C0.0\_180.0 ———

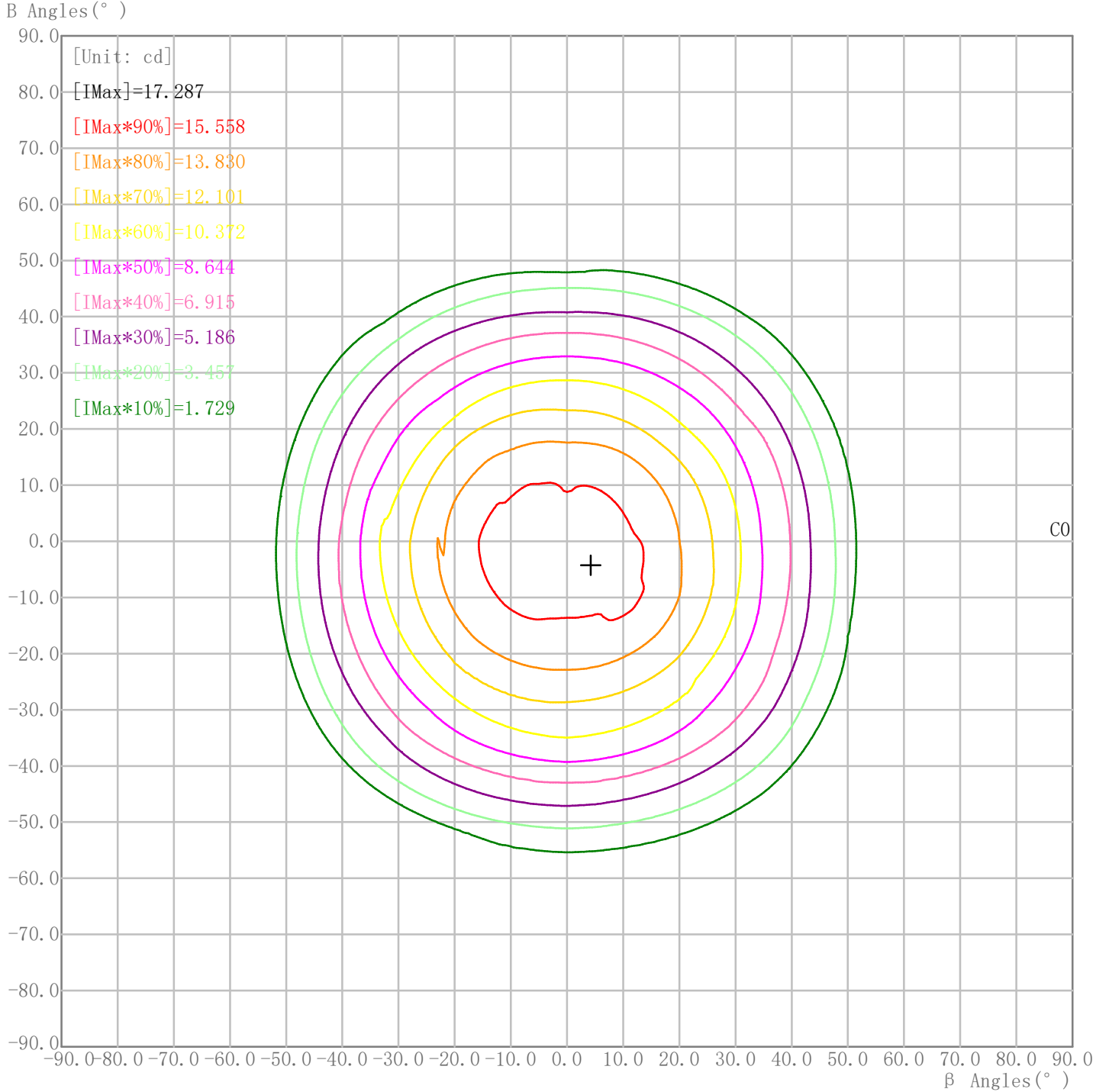
γ Cone: γ6.0 ———

C90.0\_270.0 ———

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## Rectangle ISO Light Intensity Curve



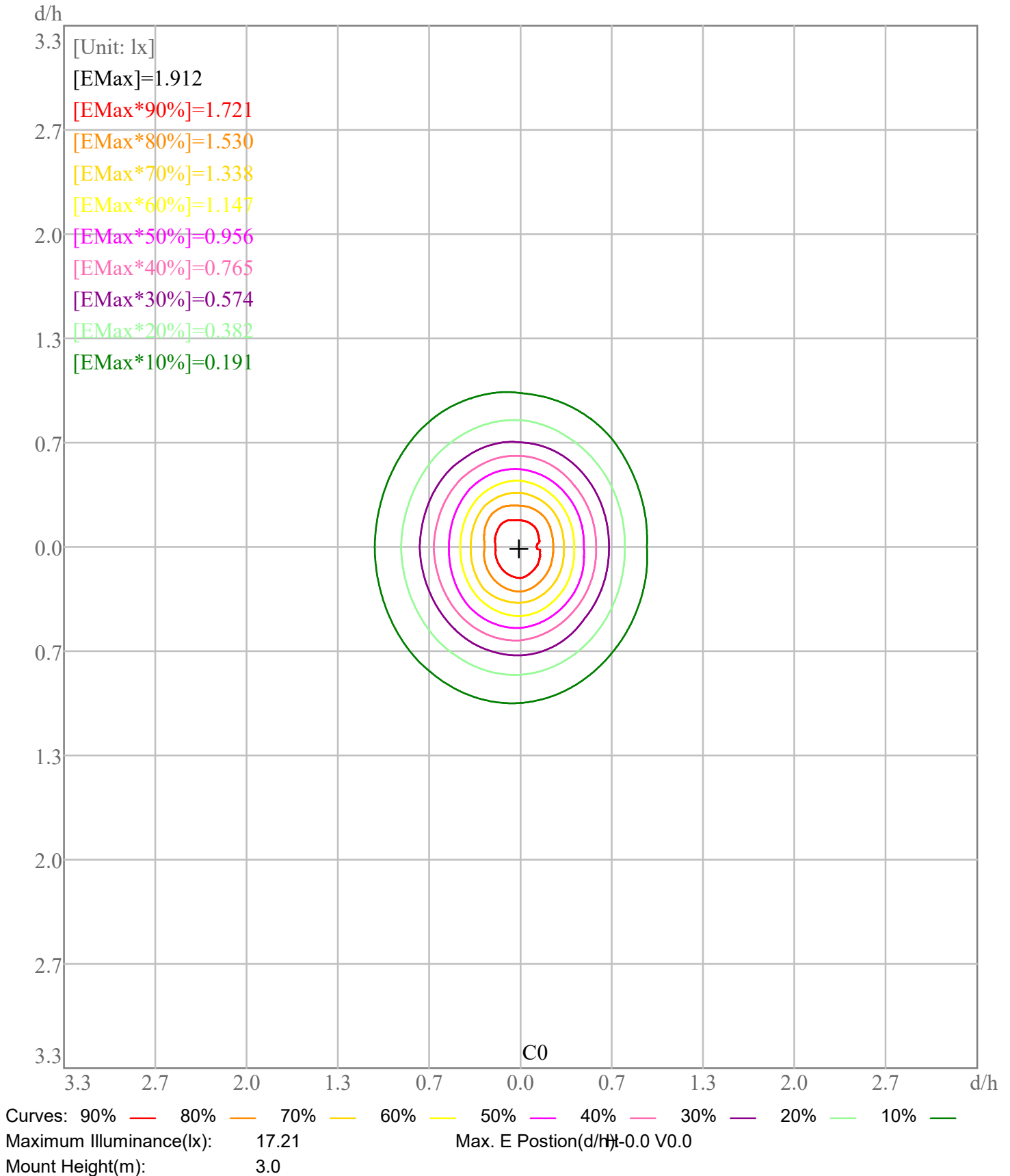
Curves: 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —

Maximum Light Intensity(cd): 17.29      Maximum Cd. Angles: H4.2 V-4.3

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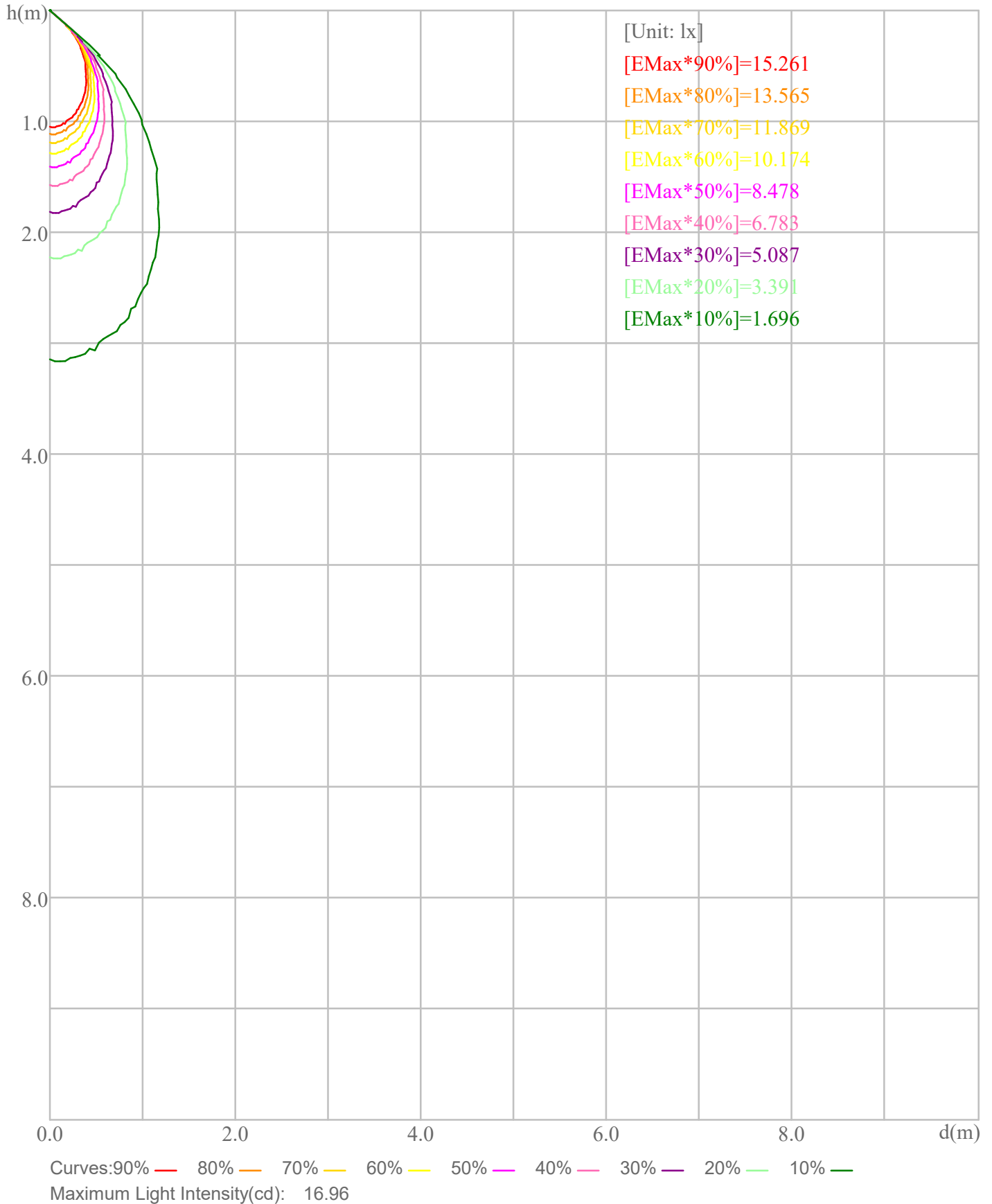
## Plane ISO-Illuminance Curve



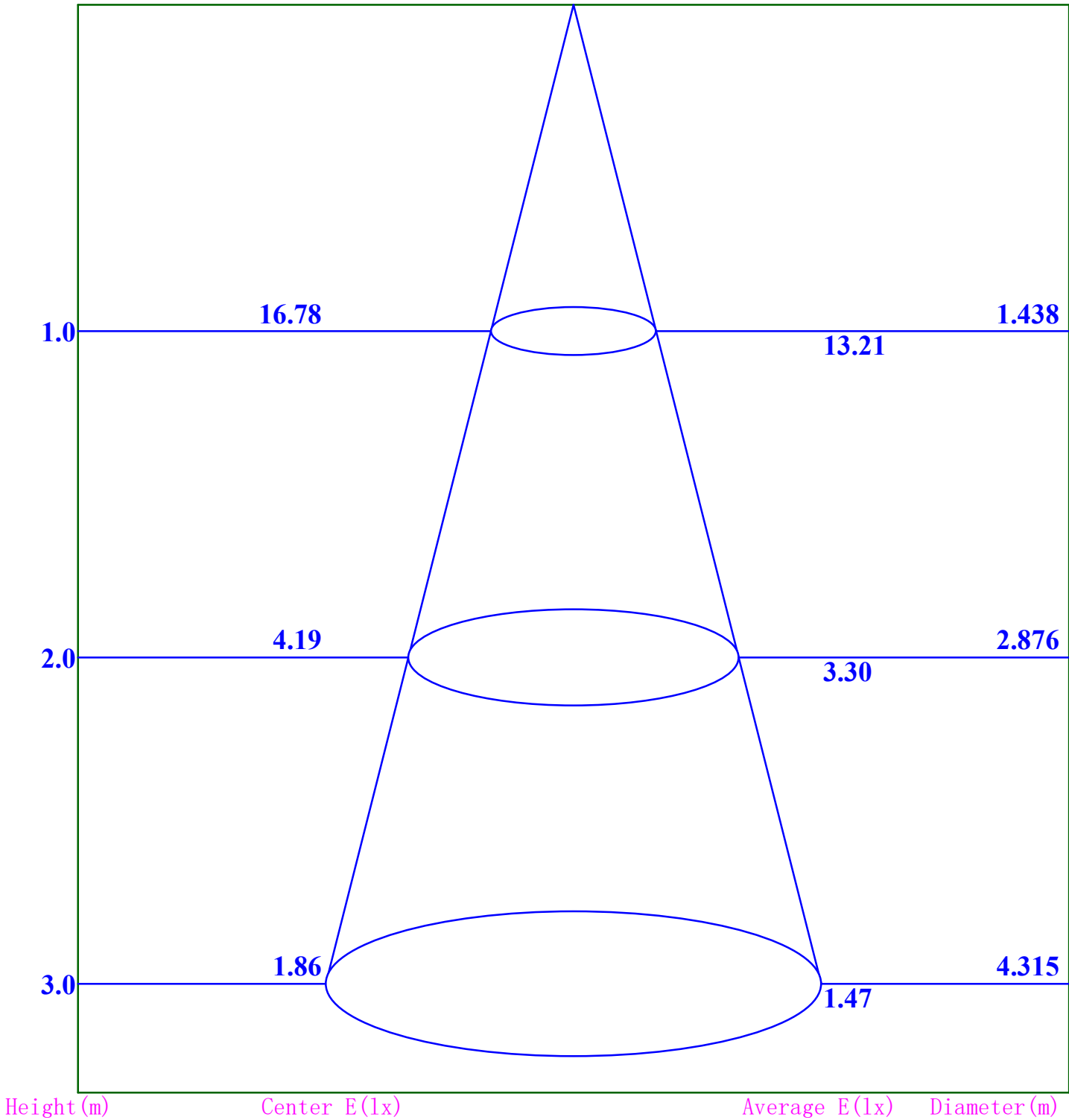
# IES Indoor Report

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## Space ISO Illuminance Curve



Illuminance-Distance Curve



**Beam Angle:71.4**

# IES Indoor Report

Photometric Filename:TT3528-L300-3500K-2-Frosted LENS.IES

## Indoor Luminance Limiting Curve

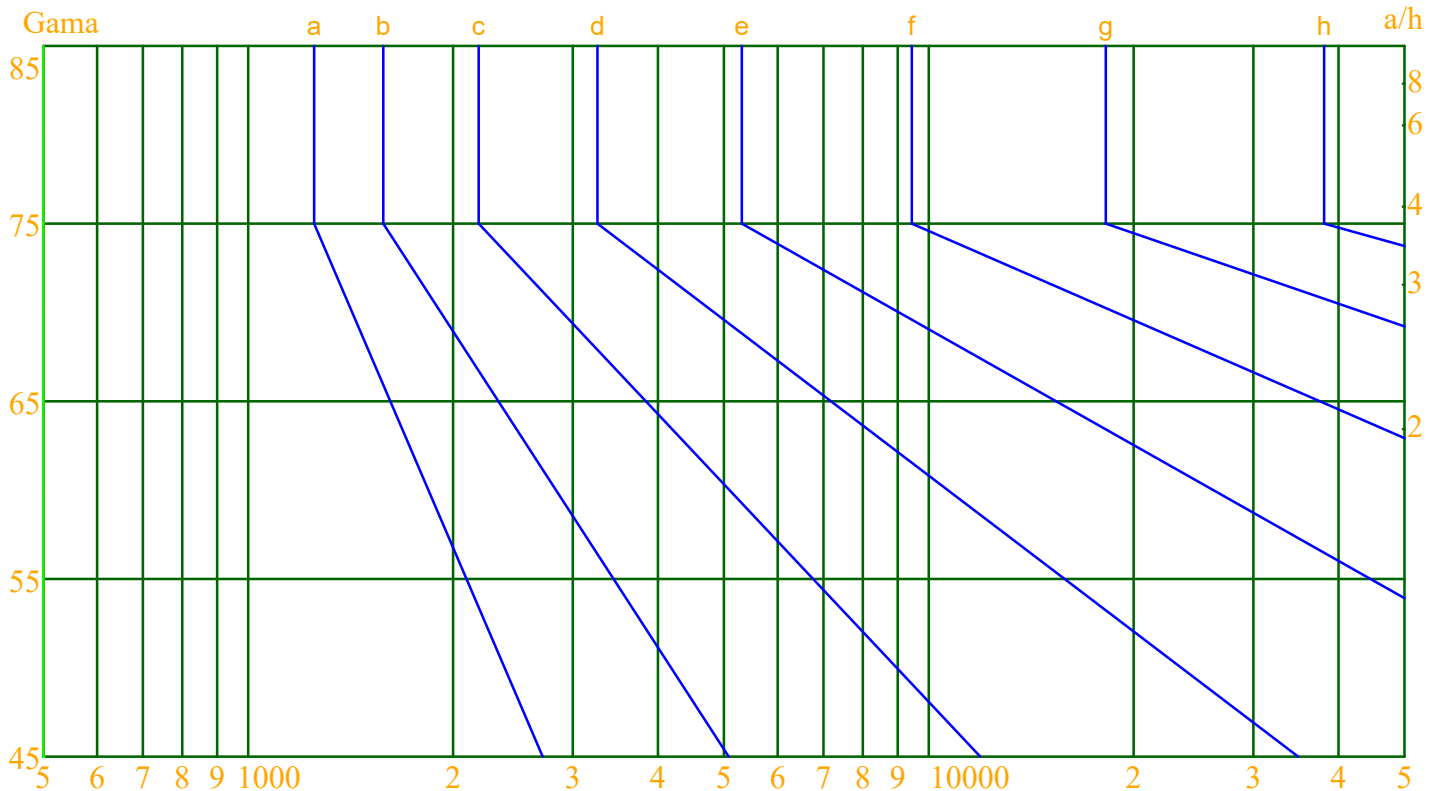
Glare Grade Table

| GI   | Quality | Using Illuminance |      |      |       |       |       |       |       |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
|      |         | a                 | b    | c    | d     | e     | f     | g     | h     |
| 1.15 | A       | 2000              | 1000 | 500  | <=300 |       |       |       |       |
| 1.5  | B       |                   | 2000 | 1000 | 500   | <=300 |       |       |       |
| 1.85 | C       |                   |      | 2000 | 1000  | 500   | <=300 |       |       |
| 2.2  | D       |                   |      |      | 2000  | 1000  | 500   | <=300 |       |
| 2.55 | E       |                   |      |      |       | 2000  | 1000  | 500   | <=300 |
|      |         | a                 | b    | c    | d     | e     | f     | g     | h     |

Luminance Table

| Gama(deg) | 45  | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|-----------|-----|----|----|----|----|----|----|----|----|
| C0        | 121 | 67 | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| C90       | 91  | 31 | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

Luminance Limiting Curve



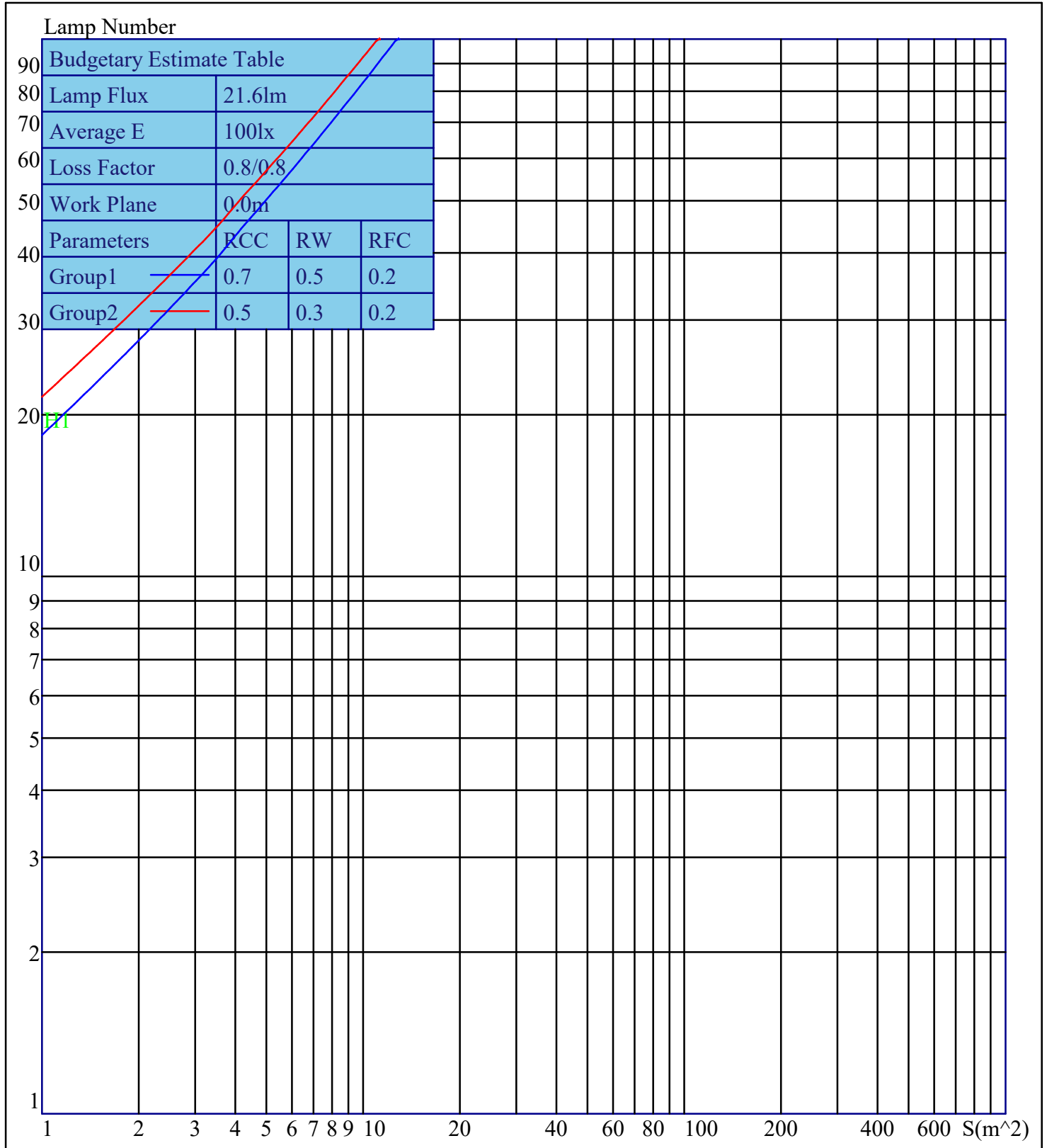
Luminous Size: Length(m)=0.304    Width(m)=0.120    Height(m)=0.060    Area(m<sup>2</sup>)=0.054720  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —



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## Indoor Budgetary Estimate Table



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8  
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8  
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2