

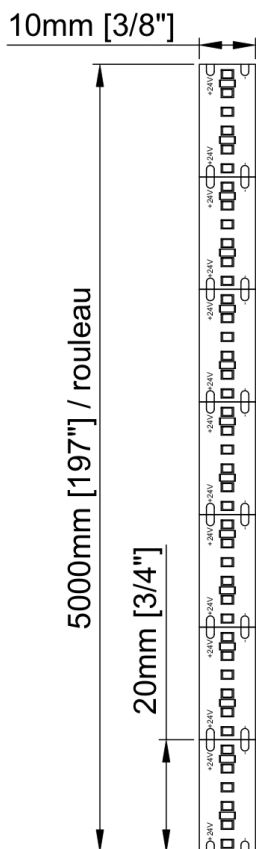
# TITANIUM

## TECHNOLOGY

TT-2216-L1500



- Del SMD2216 tape in 5 meter roll.



|               |  |   |
|---------------|--|---|
| Voltage       | 24vDC  |   |
| LED/m         | 300 / m  |   |
| Power         | 34,12w / m<br>10,40w / feet<br>170,56w / roll  |   |
| Amperage      | 1,34 / m<br>0,44 / feet<br>7,11 / roll   |   |
| Lumen         | 27K - 426 lm / feet<br>30K - 425 lm / feet<br>35K - 432 lm / feet<br>40K - 451 lm / feet<br>60K - 503 lm / feet  | 51 lm / w<br>52 lm / w<br>-<br>-<br>61 lm / w                                     |
| CRI           | 90   |   |
| Angle         | 120°   |   |
| Size          | IP20   | 10mm x 1,1mm x 5000mm<br>$\frac{3}{8}$ " x $\frac{1}{16}$ " x 196 $\frac{7}{8}$ " |
|               | IP65   | 10mm x 2,5mm 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      | 20 mm<br>$\frac{3}{4}$ "   |   |
| 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 | 2216 | L1500        | 20 | 27K       | 24V     |
| TT | 2216 | L1500        |    |           | 24V     |

# IES Indoor Report

Photometric Filename:TT-2216-L1500-6000K-3-Milky LENS.IES

## Indoor Luminaire Photometric Data

### Description Information

|  |                                 |                             |
|--|---------------------------------|-----------------------------|
| Luminaire Name: TT-2216-L1500-6000k-3-MilKy lens | Luminaire Catalog:              | Test ID:                    |
| Lamp Name: TT-2216-L1500-6000k-3-MilKy 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): 8.388           | Lamp Tested Voltage(V): 24.5          |
| Lamp Tested Current(A): 0.341         | Lamp Tested PF:                       |
| Lamp Size(W*L*H): 0.120*0.304*0.060   |                                       |
| Luminaire Speciality                  |                                       |
| Luminaire Lumens(lm): 214.887         | Beam Angle(10%Imax): 104.6            |
| Luminaire Efficiency: 47.97%          | Left=-51.9 Right=52.7                 |
| Luminaire EER(lm/W): 25.618           | Field Angle(10%Imax): 146.9           |
| Muximum Cand.(cd): 87.358             | Spacing Criteria S/MH(C0_180): 1.225  |
| Max Cd. Angle(°): C=0.0 $\gamma$ =1.0 | Spacing Criteria S/MH(C90_270): 1.226 |
| Downward Lumens(lm): 214.887          | CIE Type: Semi-Direct                 |
| Upward Lumens(lm): 0.000              | ErP $\phi$ use(120deg): 184.097lm     |
| Downward Total Efficiency%: 100.00    | IRF(%): 113.600                       |
| Upward Total Efficiency%: 0.00        |                                       |

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## 2D Light Intensity Distribution Curve

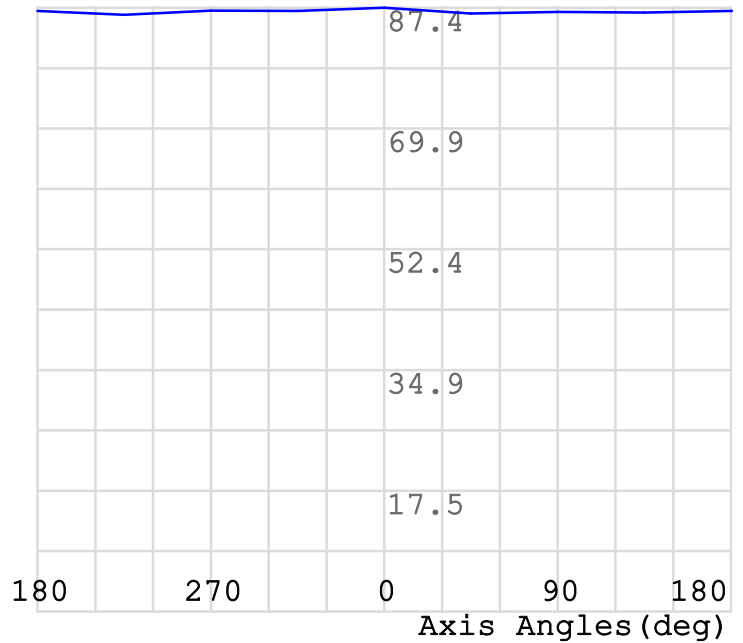
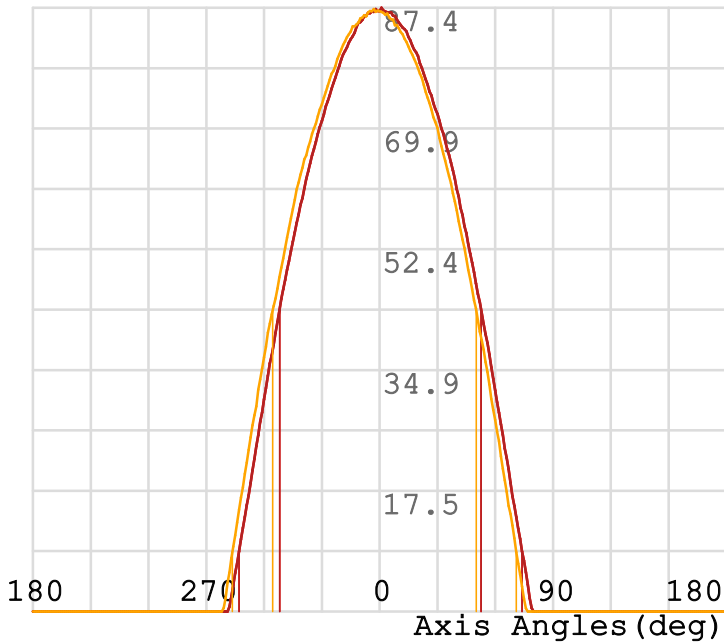
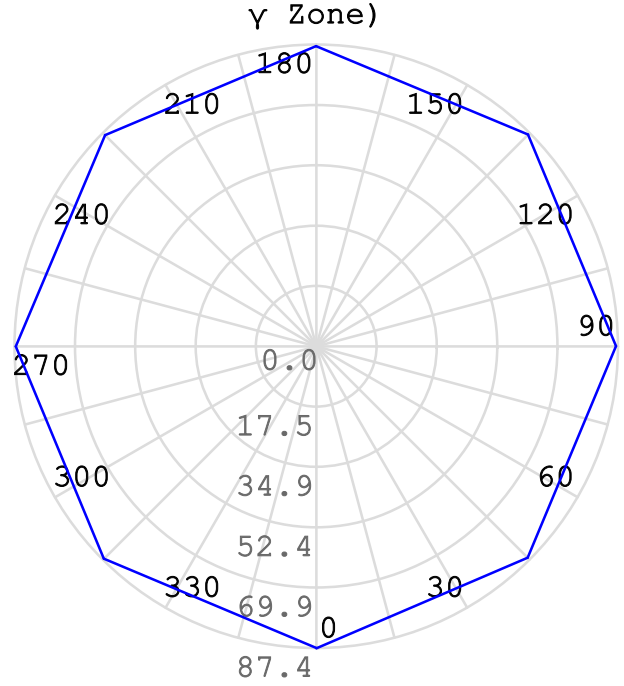
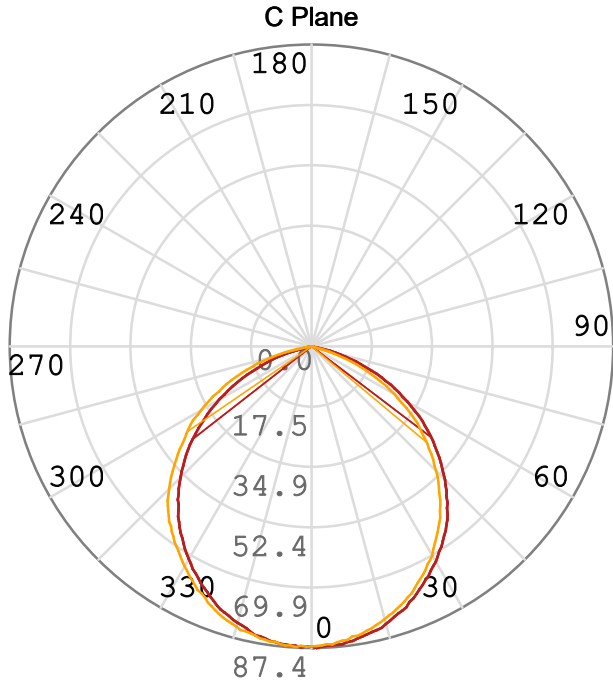
Plane [50%Ang.] [10%Ang.]

C0.0: 104.6 146.9

C0.0: 104.6 146.9

C90.0: 105.7 147.3

Polar Graph

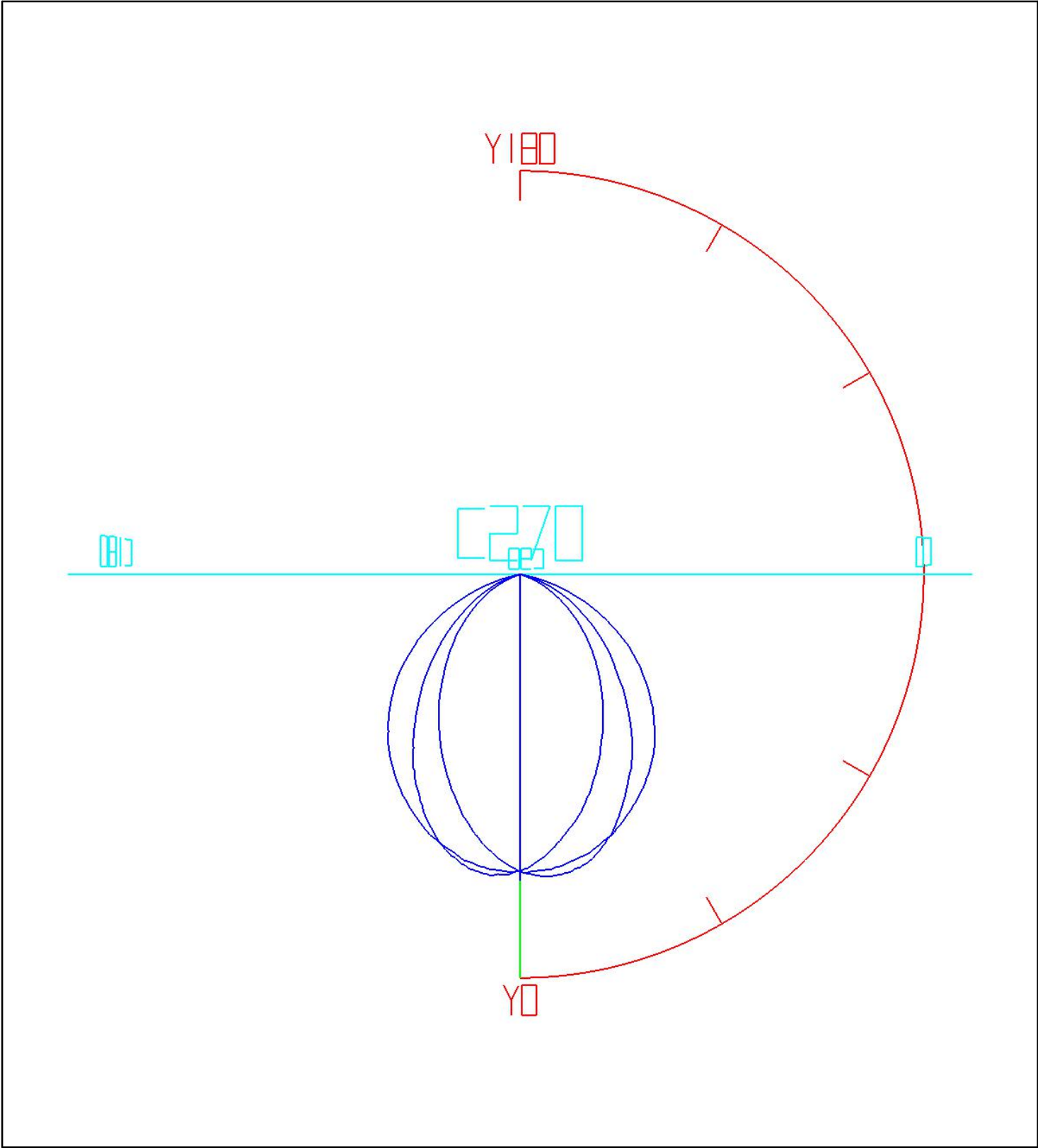


C Plane: C0.0\_180.0 ——— C0.0\_180.0

γ Cone: γ1.0 ———

C90.0\_270.0 ———

3D Light Intensity Distribution Curve

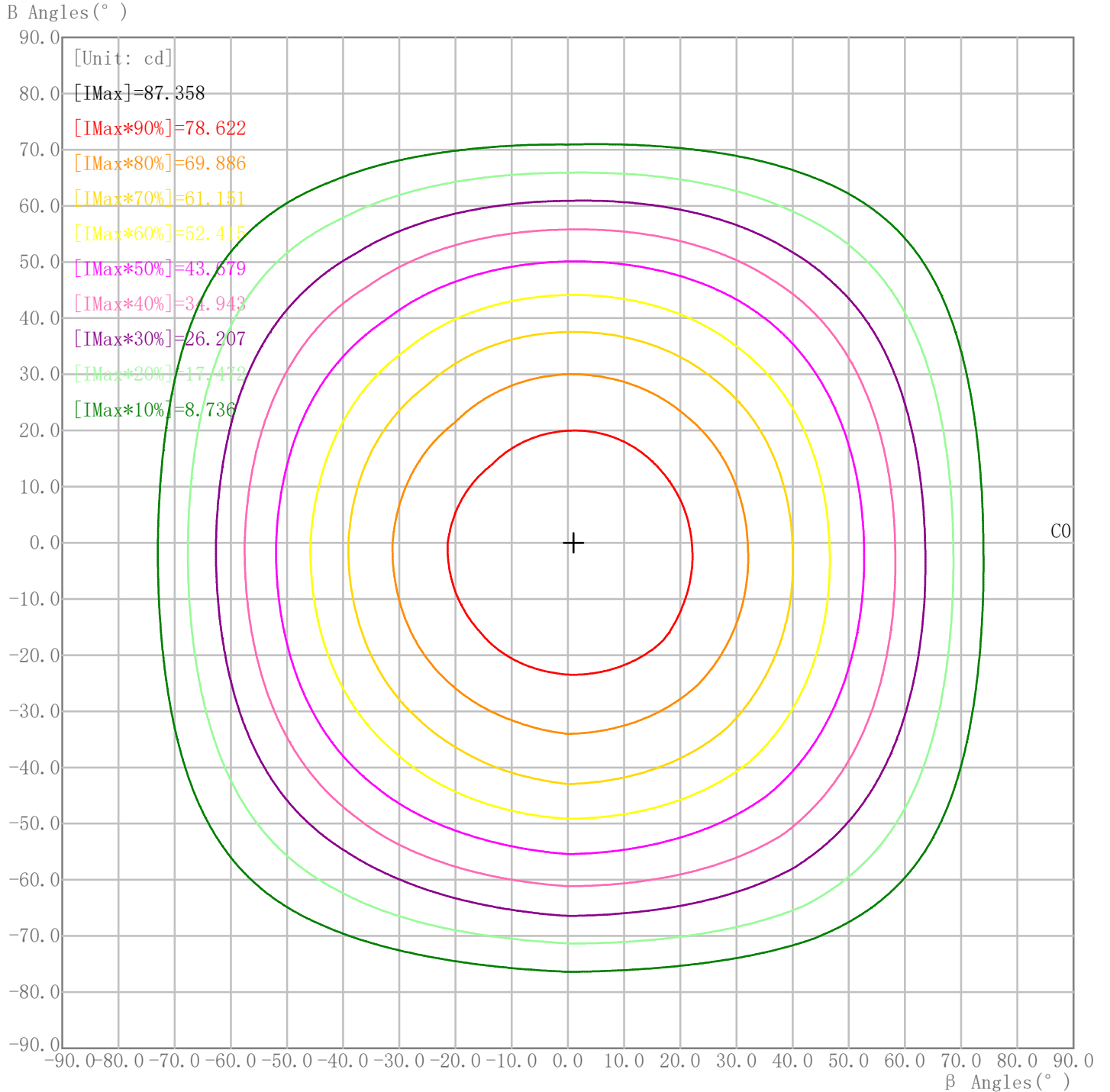


Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———  
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

# IES Indoor Report

Photometric Filename: TT-2216-L1500-6000K-3-Milky LENS.IES

## Rectangle ISO Light Intensity Curve



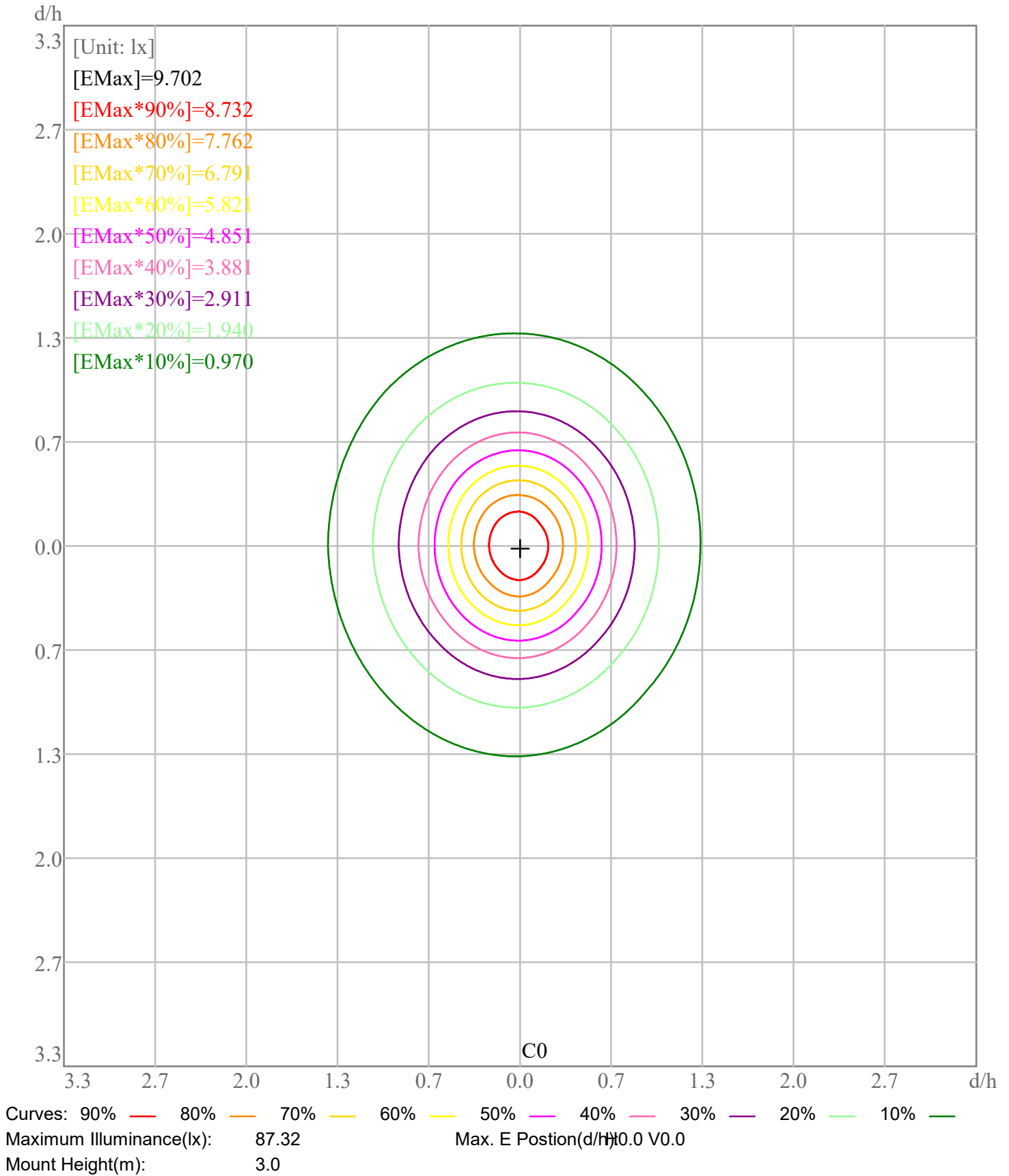
Curves: 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —

Maximum Light Intensity(cd): 87.36 Maximum Cd. Angles: H1.0 V0.0

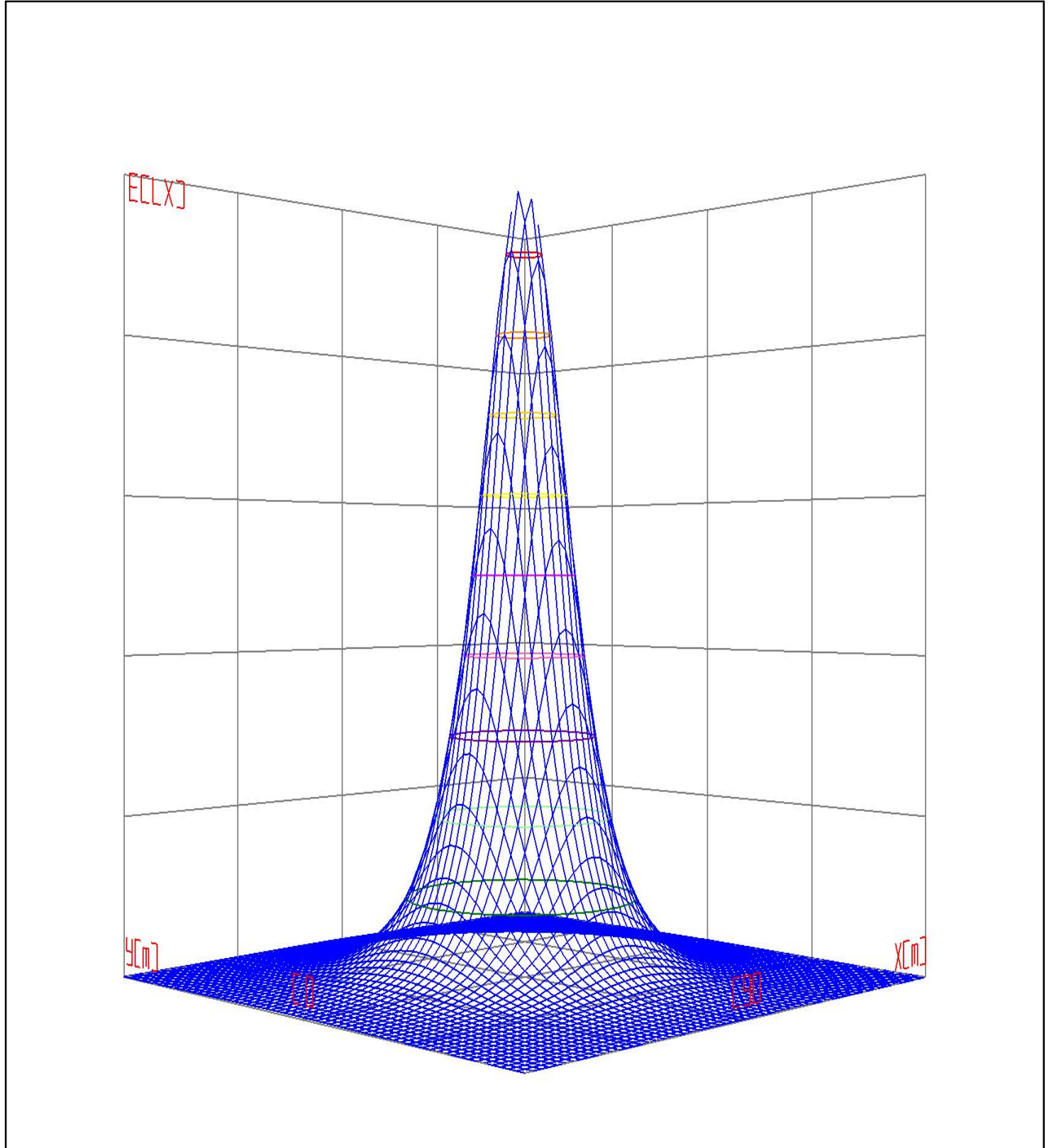
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## Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Curve

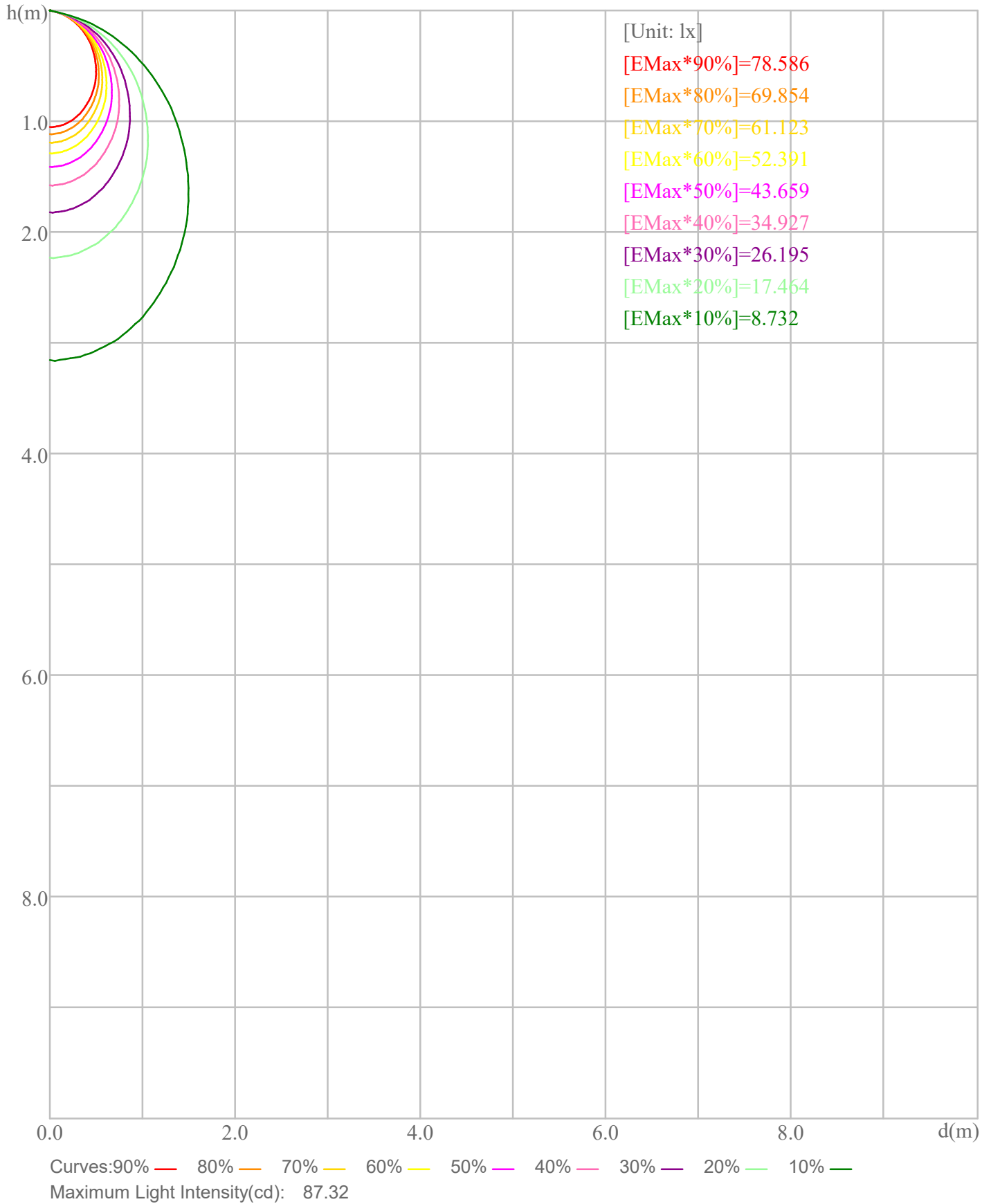


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10%  
View Angles(deg): 0      Height(m): 3.0      Distance(m): 10.0

# IES Indoor Report

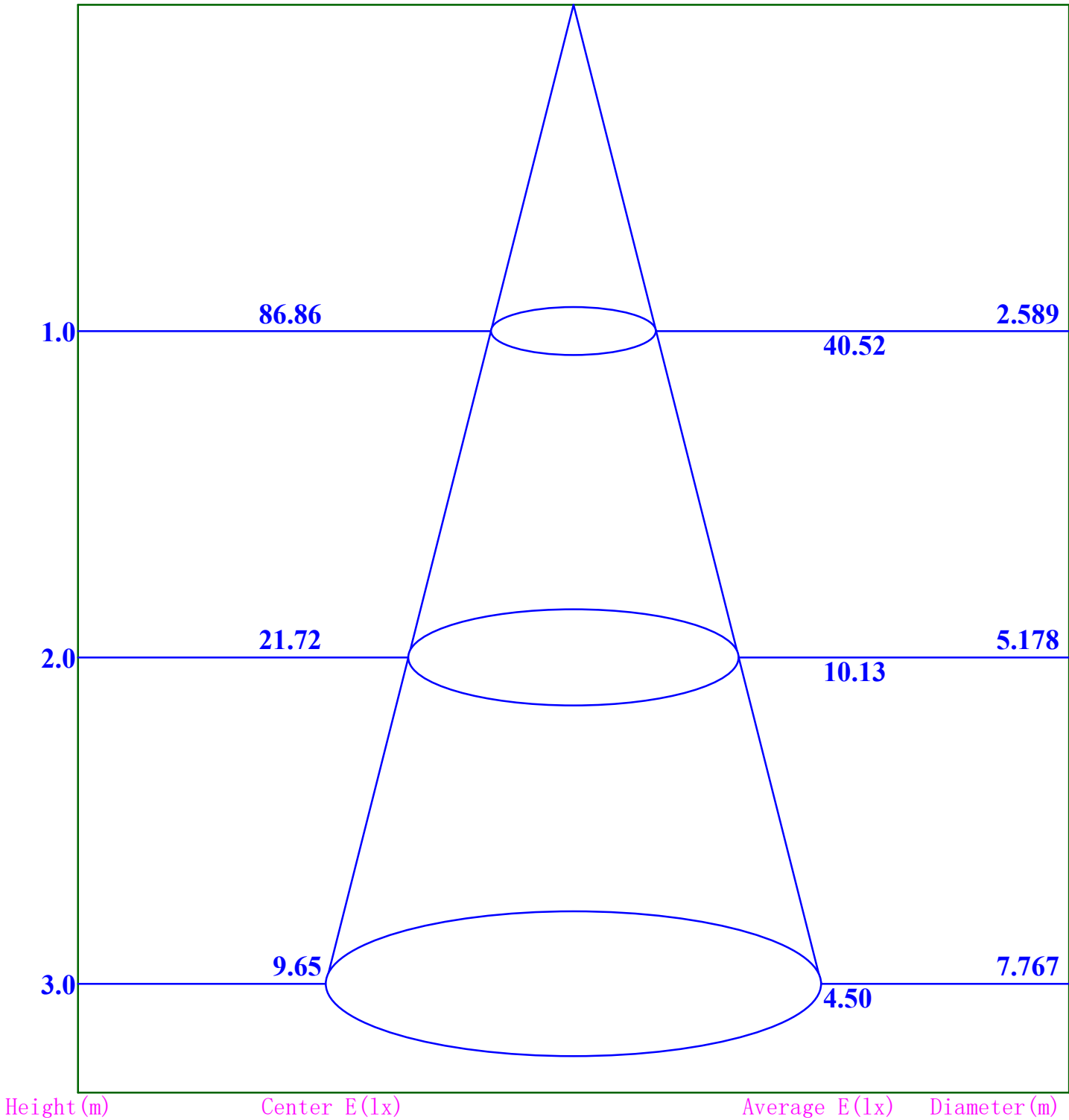
Photometric Filename: TT-2216-L1500-6000K-3-Milky LENS.IES

## Space ISO Illuminance Curve





Illuminance-Distance Curve



**Beam Angle:104.6**

# IES Indoor Report

Photometric Filename:TT-2216-L1500-6000K-3-Milky LENS.IES

## Indoor Luminance Limiting Curve

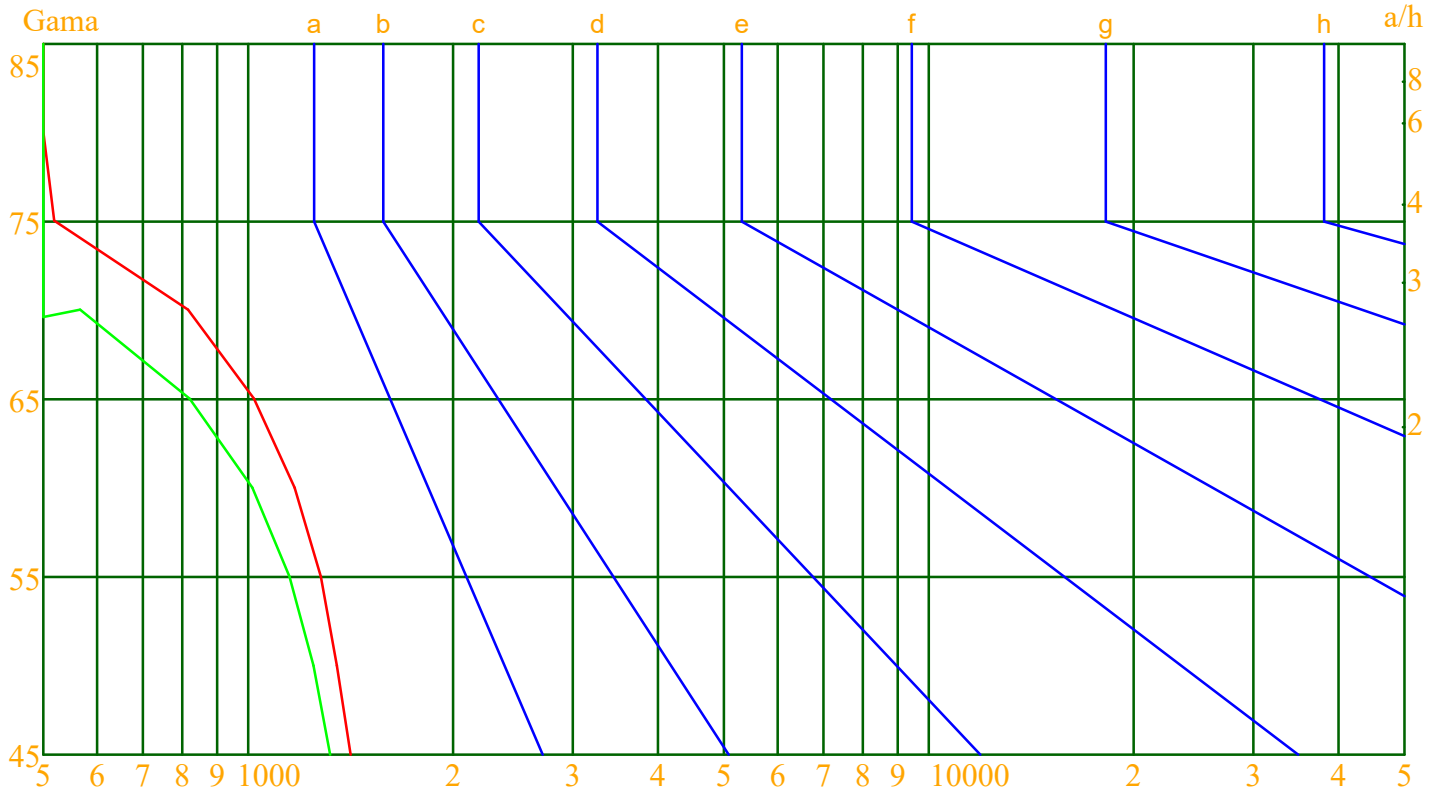
Glare Grade Table

| 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        | 1415 | 1350 | 1279 | 1171 | 1020 | 816 | 519 | 0  | 0  |
| C90       | 1320 | 1247 | 1150 | 1014 | 820  | 567 | 130 | 0  | 0  |

Luminance Limiting Curve

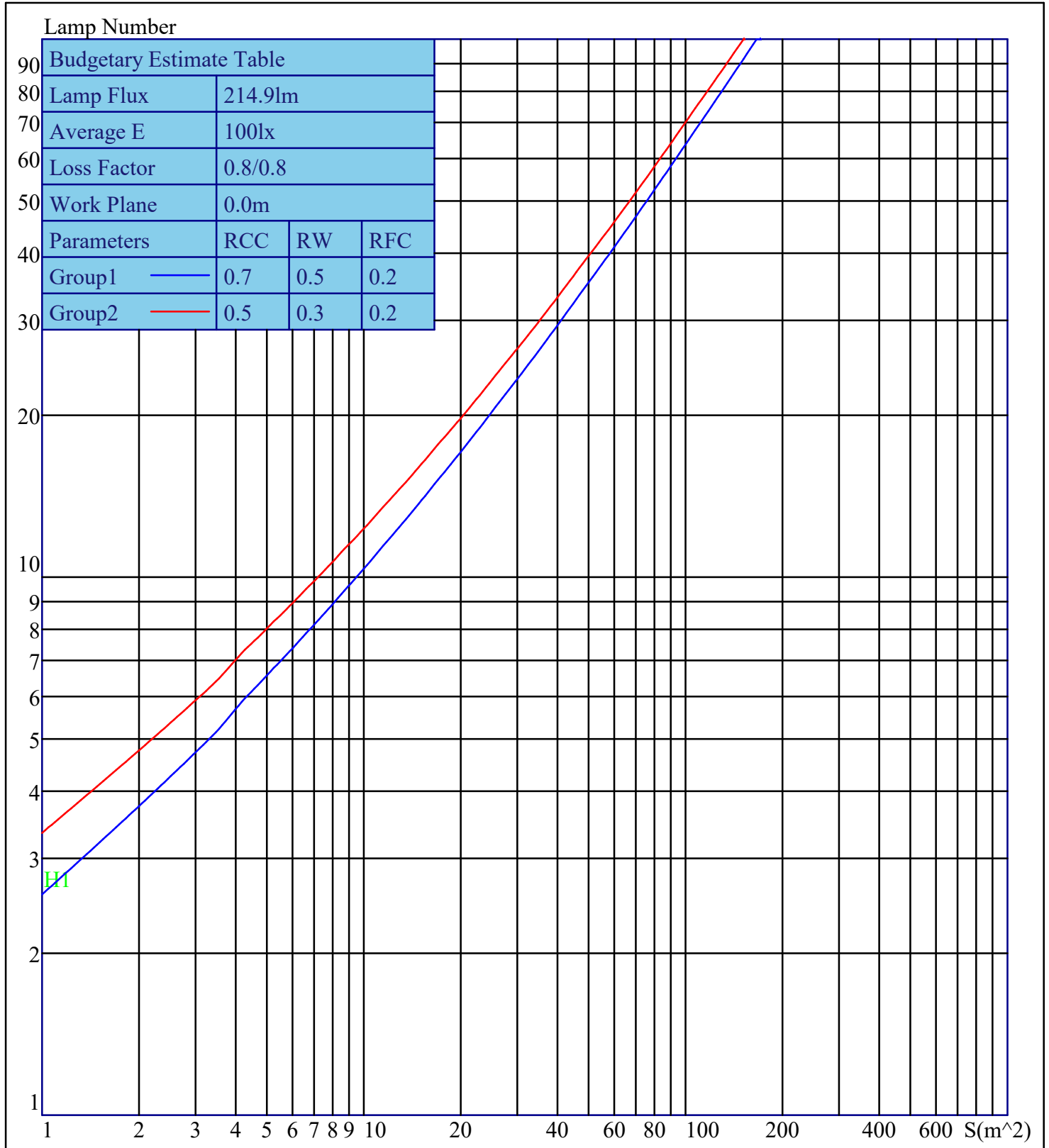


Luminous Size: Length(m)=0.304    Width(m)=0.120    Height(m)=0.060    Area(m<sup>2</sup>)=0.054720  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: —    C90-C270 Color: —

# IES Indoor Report

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## Indoor Budgetary Estimate Table



| Budgetary Estimate Table |         |     |     |
|--------------------------|---------|-----|-----|
| Lamp Flux                | 214.9lm |     |     |
| Average E                | 100lx   |     |     |
| Loss Factor              | 0.8/0.8 |     |     |
| Work Plane               | 0.0m    |     |     |
| Parameters               | RCC     | RW  | RFC |
| Group1                   | 0.7     | 0.5 | 0.2 |
| Group2                   | 0.5     | 0.3 | 0.2 |

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