

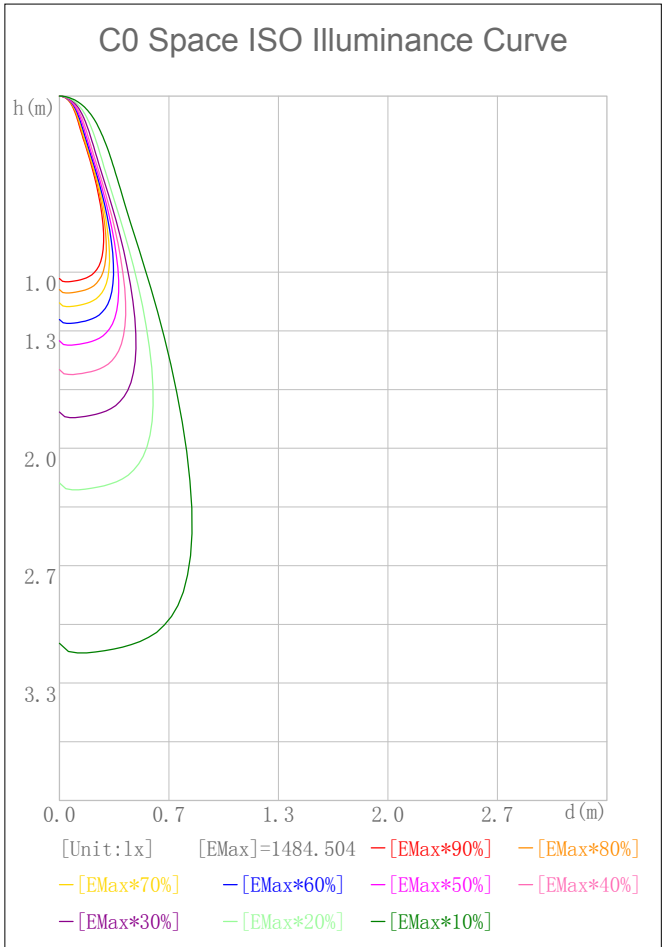
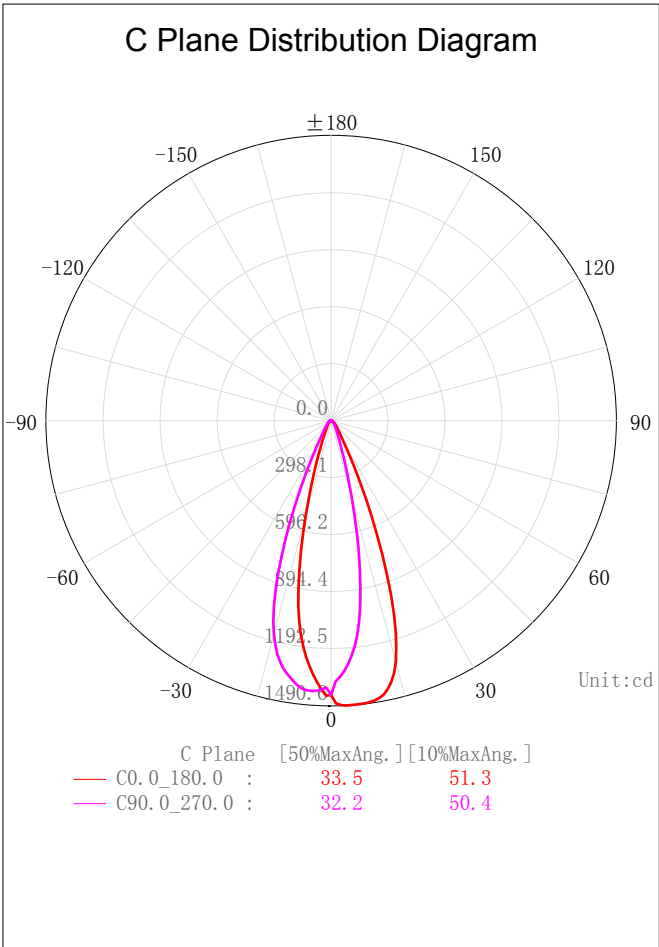
Indoor Luminaire Photometric Data

Description Information

|   |                         |                      |                       |
|---|-------------------------|----------------------|-----------------------|
| Luminary Name:DL52-06-XX-01 3000K RA90 36D      |                         | Lum. Catalog:        | Test ID: 01           |
| Lamp Name:                                      |                         | Lamp Catalog: LED    | Test Date: 2021/10/27 |
| Manufacture: Shenzhen Norming Lighting Co., Ltd |                         | Shld.Ang(°):         | Test Machine:GON-2000 |
| Test Lab: Quality Department                    |                         | Frequency (Hz):      | Lamp CCT (K): Ra:     |
| Lum. Size (W*L*H):0.076m*0.076m*0.000m          |                         | Lum. Area (m2):0.005 | Lum. W (kg): 0.000    |
| Test System: C, γ                               | Test Step: C=90.0 γ=1.0 | Temp. (°C): 25       | Humidity(%): 50.0     |

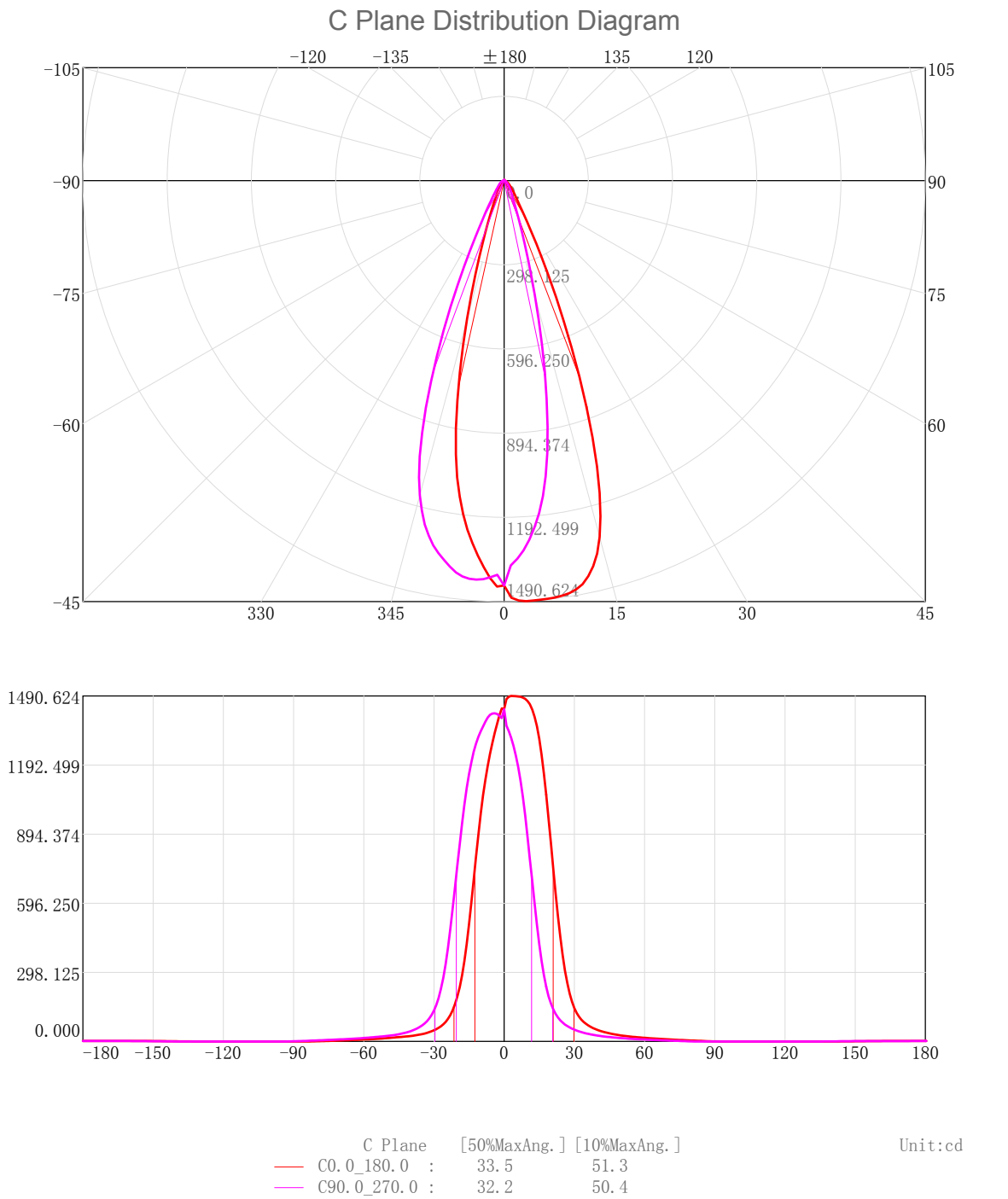
Character Parameter

| Lamp Speciality Parameter                       |                                | Luminaire Speciality Parameter        |  |
|---|--------------------------------|---------------------------------------|--|
| Rated Flux(lm): 546.620                         | Luminary Flux(lm): 546.619     | Field Angle(10%Imax): 51.3(°)         |  |
| Rated Power(W):                                 | Luminary Efficiency: 100.00%   | Down Lumens&Percent: 544.168lm 99.55% |  |
| Rated Voltage(V):                               | Luminary EER(lm/W): 87.782     | Up Lumens&Percent: 2.451lm 0.45%      |  |
| Tested Power(W): 6.227                          | Max. Candela(cd): 1490.624     | S/MH: C0_a180=0.580 C90_270=0.545     |  |
| Lamps' Inside: 1                                | Max Cand@Ang. (°): C=0.0 γ=3.0 | CIE Type: Semi-Direct                 |  |
| Tested Electrics (V, A, pf):241.0, 0.030, 0.844 | Beam Angle(50%Imax): 33.5(°)   | ErP ϕ use(90°): 440.448lm             |  |
| Lamp Size (W*L*H):0.076m*0.076m*0.000m          | Left=-12.5°, Right=21.0°       | IRF(%): 498.104                       |  |



2D Plane Light Intensity Distribution Curve

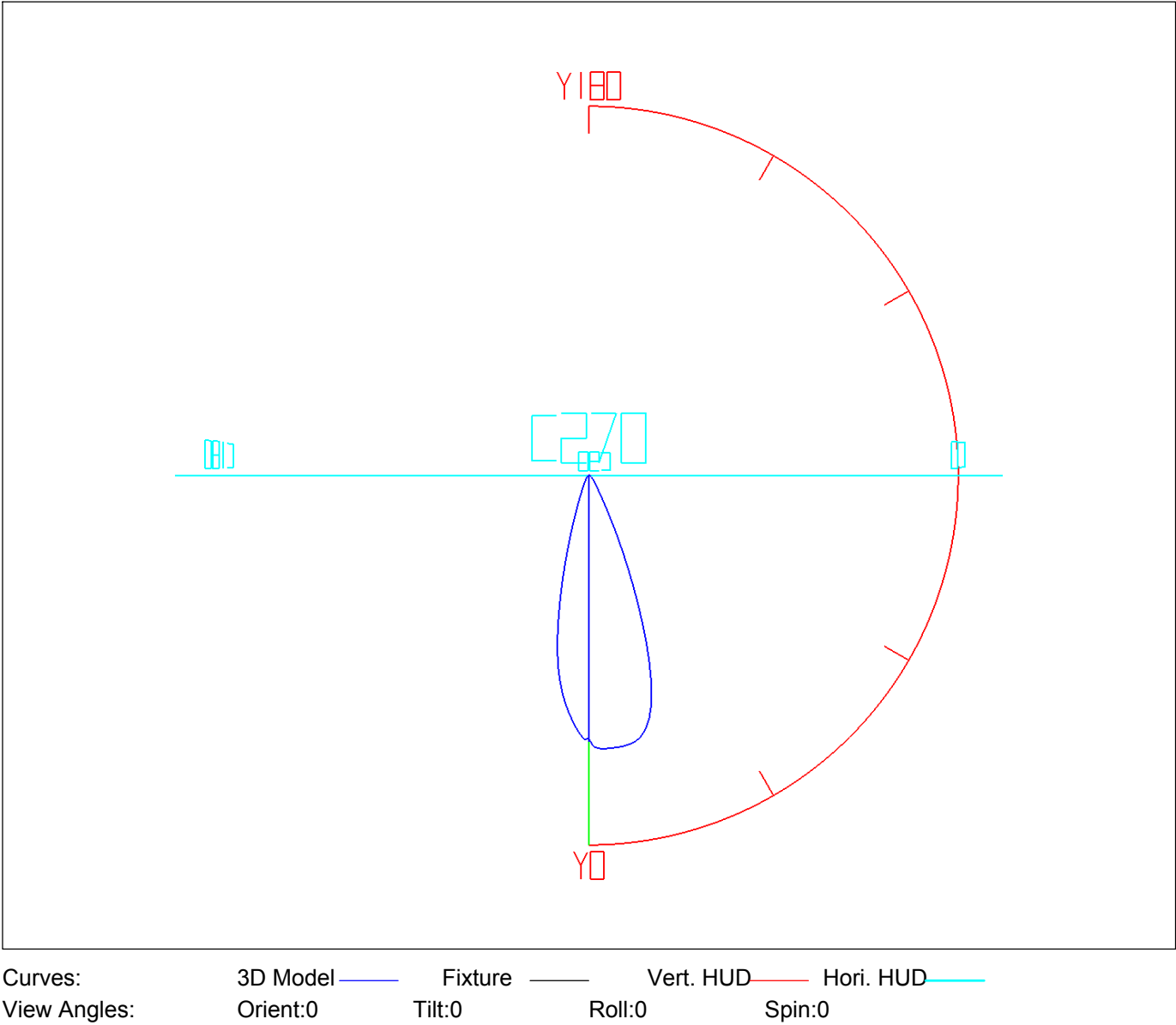
|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |



3D Light Intensity Distribution Modal

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catelog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

3D Light Intensity Distribution Modal



IES Indoor Report

Photometric Filename:DL52-06-XX-01 3000K RA90 36D.IES

Zonal Flux Tabulation

| Zone(γ)   | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp | Zone(γ)   | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0   | 1.36              | 1.36              | 0.25      | 0.25      | 47.0-48.0 | 1.84              | 511.27            | 0.34      | 93.53     |
| 1.0-2.0   | 4.06              | 5.42              | 0.74      | 0.99      | 48.0-49.0 | 1.77              | 513.04            | 0.32      | 93.86     |
| 2.0-3.0   | 6.71              | 12.13             | 1.23      | 2.22      | 49.0-50.0 | 1.70              | 514.74            | 0.31      | 94.17     |
| 3.0-4.0   | 9.29              | 21.42             | 1.70      | 3.92      | 50.0-51.0 | 1.64              | 516.39            | 0.30      | 94.47     |
| 4.0-5.0   | 11.76             | 33.18             | 2.15      | 6.07      | 51.0-52.0 | 1.58              | 517.97            | 0.29      | 94.76     |
| 5.0-6.0   | 14.12             | 47.30             | 2.58      | 8.65      | 52.0-53.0 | 1.53              | 519.50            | 0.28      | 95.04     |
| 6.0-7.0   | 16.33             | 63.63             | 2.99      | 11.64     | 53.0-54.0 | 1.47              | 520.97            | 0.27      | 95.31     |
| 7.0-8.0   | 18.34             | 81.97             | 3.35      | 15.00     | 54.0-55.0 | 1.42              | 522.39            | 0.26      | 95.57     |
| 8.0-9.0   | 20.11             | 102.08            | 3.68      | 18.67     | 55.0-56.0 | 1.37              | 523.75            | 0.25      | 95.82     |
| 9.0-10.0  | 21.61             | 123.69            | 3.95      | 22.63     | 56.0-57.0 | 1.32              | 525.07            | 0.24      | 96.06     |
| 10.0-11.0 | 22.80             | 146.49            | 4.17      | 26.80     | 57.0-58.0 | 1.27              | 526.34            | 0.23      | 96.29     |
| 11.0-12.0 | 23.66             | 170.15            | 4.33      | 31.13     | 58.0-59.0 | 1.22              | 527.55            | 0.22      | 96.51     |
| 12.0-13.0 | 24.16             | 194.31            | 4.42      | 35.55     | 59.0-60.0 | 1.17              | 528.72            | 0.21      | 96.73     |
| 13.0-14.0 | 24.35             | 218.66            | 4.45      | 40.00     | 60.0-61.0 | 1.12              | 529.84            | 0.21      | 96.93     |
| 14.0-15.0 | 24.21             | 242.87            | 4.43      | 44.43     | 61.0-62.0 | 1.07              | 530.92            | 0.20      | 97.13     |
| 15.0-16.0 | 23.75             | 266.62            | 4.35      | 48.78     | 62.0-63.0 | 1.03              | 531.94            | 0.19      | 97.32     |
| 16.0-17.0 | 23.01             | 289.63            | 4.21      | 52.98     | 63.0-64.0 | 0.98              | 532.92            | 0.18      | 97.49     |
| 17.0-18.0 | 21.99             | 311.62            | 4.02      | 57.01     | 64.0-65.0 | 0.93              | 533.86            | 0.17      | 97.67     |
| 18.0-19.0 | 20.73             | 332.34            | 3.79      | 60.80     | 65.0-66.0 | 0.89              | 534.75            | 0.16      | 97.83     |
| 19.0-20.0 | 19.25             | 351.60            | 3.52      | 64.32     | 66.0-67.0 | 0.85              | 535.59            | 0.15      | 97.98     |
| 20.0-21.0 | 17.63             | 369.22            | 3.22      | 67.55     | 67.0-68.0 | 0.80              | 536.40            | 0.15      | 98.13     |
| 21.0-22.0 | 15.92             | 385.14            | 2.91      | 70.46     | 68.0-69.0 | 0.76              | 537.16            | 0.14      | 98.27     |
| 22.0-23.0 | 14.19             | 399.33            | 2.60      | 73.06     | 69.0-70.0 | 0.72              | 537.87            | 0.13      | 98.40     |
| 23.0-24.0 | 12.51             | 411.84            | 2.29      | 75.34     | 70.0-71.0 | 0.67              | 538.55            | 0.12      | 98.52     |
| 24.0-25.0 | 10.91             | 422.76            | 2.00      | 77.34     | 71.0-72.0 | 0.63              | 539.18            | 0.12      | 98.64     |
| 25.0-26.0 | 9.46              | 432.21            | 1.73      | 79.07     | 72.0-73.0 | 0.59              | 539.77            | 0.11      | 98.75     |
| 26.0-27.0 | 8.18              | 440.40            | 1.50      | 80.57     | 73.0-74.0 | 0.55              | 540.32            | 0.10      | 98.85     |
| 27.0-28.0 | 7.10              | 447.50            | 1.30      | 81.87     | 74.0-75.0 | 0.51              | 540.82            | 0.09      | 98.94     |
| 28.0-29.0 | 6.21              | 453.70            | 1.14      | 83.00     | 75.0-76.0 | 0.47              | 541.29            | 0.09      | 99.03     |
| 29.0-30.0 | 5.48              | 459.19            | 1.00      | 84.00     | 76.0-77.0 | 0.43              | 541.72            | 0.08      | 99.10     |
| 30.0-31.0 | 4.90              | 464.08            | 0.90      | 84.90     | 77.0-78.0 | 0.38              | 542.10            | 0.07      | 99.17     |
| 31.0-32.0 | 4.43              | 468.51            | 0.81      | 85.71     | 78.0-79.0 | 0.34              | 542.44            | 0.06      | 99.24     |
| 32.0-33.0 | 4.05              | 472.56            | 0.74      | 86.45     | 79.0-80.0 | 0.30              | 542.75            | 0.06      | 99.29     |
| 33.0-34.0 | 3.73              | 476.30            | 0.68      | 87.14     | 80.0-81.0 | 0.26              | 543.01            | 0.05      | 99.34     |
| 34.0-35.0 | 3.47              | 479.77            | 0.63      | 87.77     | 81.0-82.0 | 0.23              | 543.24            | 0.04      | 99.38     |
| 35.0-36.0 | 3.24              | 483.01            | 0.59      | 88.36     | 82.0-83.0 | 0.20              | 543.44            | 0.04      | 99.42     |
| 36.0-37.0 | 3.05              | 486.06            | 0.56      | 88.92     | 83.0-84.0 | 0.17              | 543.61            | 0.03      | 99.45     |
| 37.0-38.0 | 2.88              | 488.94            | 0.53      | 89.45     | 84.0-85.0 | 0.14              | 543.75            | 0.03      | 99.48     |
| 38.0-39.0 | 2.72              | 491.66            | 0.50      | 89.95     | 85.0-86.0 | 0.12              | 543.87            | 0.02      | 99.50     |
| 39.0-40.0 | 2.59              | 494.25            | 0.47      | 90.42     | 86.0-87.0 | 0.10              | 543.97            | 0.02      | 99.51     |
| 40.0-41.0 | 2.46              | 496.71            | 0.45      | 90.87     | 87.0-88.0 | 0.08              | 544.05            | 0.01      | 99.53     |
| 41.0-42.0 | 2.35              | 499.07            | 0.43      | 91.30     | 88.0-89.0 | 0.07              | 544.12            | 0.01      | 99.54     |
| 42.0-43.0 | 2.25              | 501.32            | 0.41      | 91.71     | 89.0-90.0 | 0.05              | 544.17            | 0.01      | 99.55     |
| 43.0-44.0 | 2.16              | 503.47            | 0.39      | 92.11     | 90.0-91.0 | 0.04              | 544.21            | 0.01      | 99.56     |
| 44.0-45.0 | 2.07              | 505.54            | 0.38      | 92.48     | 91.0-92.0 | 0.02              | 544.23            | 0.00      | 99.56     |
| 45.0-46.0 | 1.99              | 507.53            | 0.36      | 92.85     | 92.0-93.0 | 0.01              | 544.25            | 0.00      | 99.57     |
| 46.0-47.0 | 1.91              | 509.43            | 0.35      | 93.20     | 93.0-94.0 | 0.01              | 544.25            | 0.00      | 99.57     |

IES Indoor Report

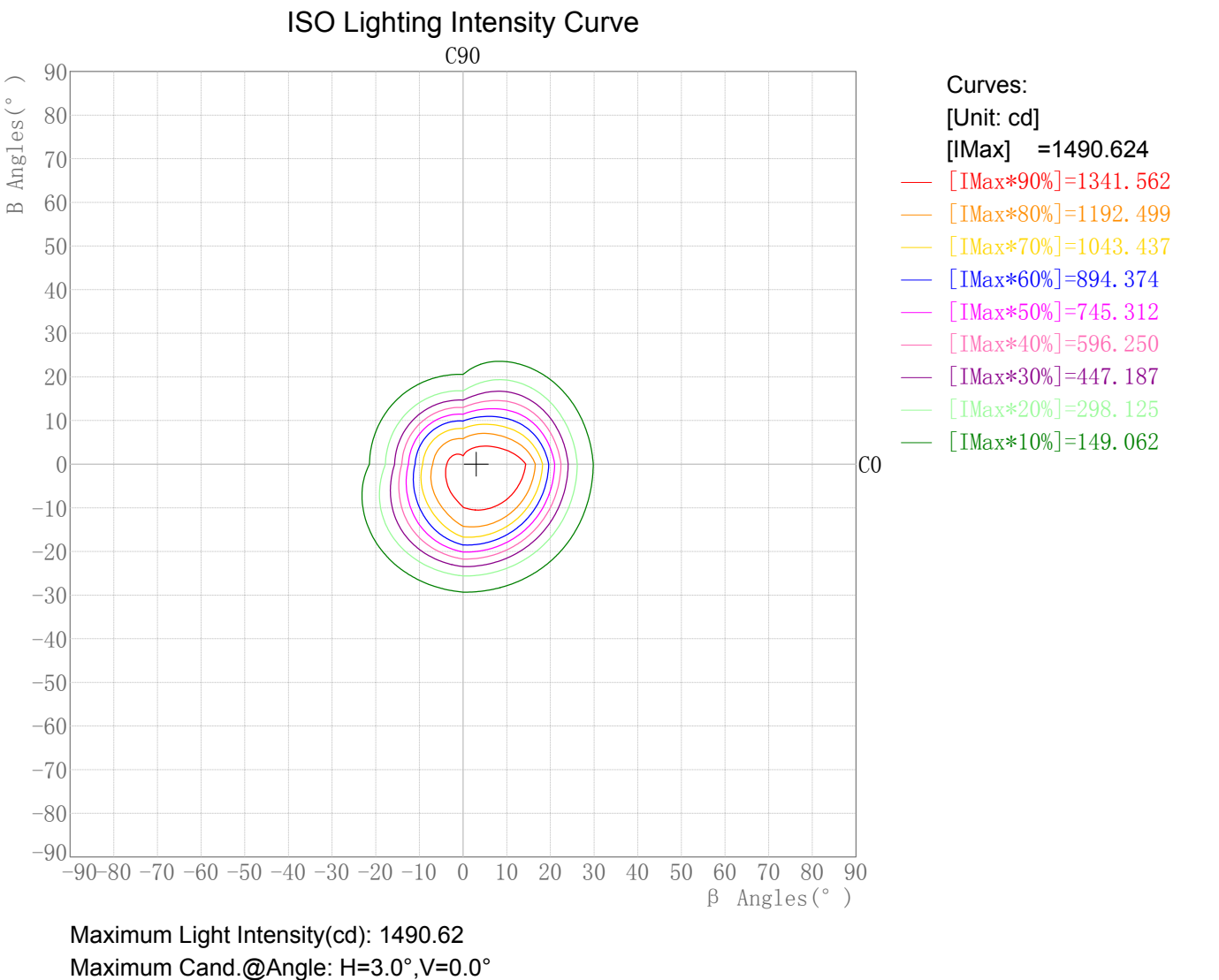
Photometric Filename:DL52-06-XX-01 3000K RA90 36D.IES

Zonal Flux Tabulation - (Cont.)

| Zone(γ)     | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp | Zone(γ)     | Zone Flux<br>(lm) | Sums Flux<br>(lm) | Zone%Lamp | Sums%Lamp |
|-------------|-------------------|-------------------|-----------|-----------|-------------|-------------------|-------------------|-----------|-----------|
| 94.0-95.0   | 0.01              | 544.26            | 0.00      | 99.57     | 141.0-142.0 | 0.04              | 544.45            | 0.01      | 99.60     |
| 95.0-96.0   | 0.00              | 544.26            | 0.00      | 99.57     | 142.0-143.0 | 0.05              | 544.50            | 0.01      | 99.61     |
| 96.0-97.0   | 0.00              | 544.26            | 0.00      | 99.57     | 143.0-144.0 | 0.05              | 544.55            | 0.01      | 99.62     |
| 97.0-98.0   | 0.00              | 544.26            | 0.00      | 99.57     | 144.0-145.0 | 0.06              | 544.61            | 0.01      | 99.63     |
| 98.0-99.0   | 0.00              | 544.26            | 0.00      | 99.57     | 145.0-146.0 | 0.06              | 544.67            | 0.01      | 99.64     |
| 99.0-100.0  | 0.00              | 544.26            | 0.00      | 99.57     | 146.0-147.0 | 0.07              | 544.74            | 0.01      | 99.66     |
| 100.0-101.0 | 0.00              | 544.26            | 0.00      | 99.57     | 147.0-148.0 | 0.07              | 544.81            | 0.01      | 99.67     |
| 101.0-102.0 | 0.00              | 544.26            | 0.00      | 99.57     | 148.0-149.0 | 0.08              | 544.88            | 0.01      | 99.68     |
| 102.0-103.0 | 0.00              | 544.26            | 0.00      | 99.57     | 149.0-150.0 | 0.08              | 544.96            | 0.01      | 99.70     |
| 103.0-104.0 | 0.00              | 544.26            | 0.00      | 99.57     | 150.0-151.0 | 0.08              | 545.04            | 0.01      | 99.71     |
| 104.0-105.0 | 0.00              | 544.26            | 0.00      | 99.57     | 151.0-152.0 | 0.08              | 545.13            | 0.02      | 99.73     |
| 105.0-106.0 | 0.00              | 544.26            | 0.00      | 99.57     | 152.0-153.0 | 0.08              | 545.21            | 0.02      | 99.74     |
| 106.0-107.0 | 0.00              | 544.26            | 0.00      | 99.57     | 153.0-154.0 | 0.09              | 545.30            | 0.02      | 99.76     |
| 107.0-108.0 | 0.00              | 544.26            | 0.00      | 99.57     | 154.0-155.0 | 0.09              | 545.38            | 0.02      | 99.77     |
| 108.0-109.0 | 0.00              | 544.26            | 0.00      | 99.57     | 155.0-156.0 | 0.09              | 545.47            | 0.02      | 99.79     |
| 109.0-110.0 | 0.00              | 544.26            | 0.00      | 99.57     | 156.0-157.0 | 0.09              | 545.55            | 0.02      | 99.81     |
| 110.0-111.0 | 0.00              | 544.26            | 0.00      | 99.57     | 157.0-158.0 | 0.08              | 545.64            | 0.02      | 99.82     |
| 111.0-112.0 | 0.00              | 544.26            | 0.00      | 99.57     | 158.0-159.0 | 0.08              | 545.72            | 0.02      | 99.84     |
| 112.0-113.0 | 0.00              | 544.26            | 0.00      | 99.57     | 159.0-160.0 | 0.08              | 545.80            | 0.01      | 99.85     |
| 113.0-114.0 | 0.00              | 544.26            | 0.00      | 99.57     | 160.0-161.0 | 0.08              | 545.88            | 0.01      | 99.86     |
| 114.0-115.0 | 0.00              | 544.26            | 0.00      | 99.57     | 161.0-162.0 | 0.07              | 545.95            | 0.01      | 99.88     |
| 115.0-116.0 | 0.00              | 544.26            | 0.00      | 99.57     | 162.0-163.0 | 0.07              | 546.02            | 0.01      | 99.89     |
| 116.0-117.0 | 0.00              | 544.26            | 0.00      | 99.57     | 163.0-164.0 | 0.07              | 546.09            | 0.01      | 99.90     |
| 117.0-118.0 | 0.00              | 544.26            | 0.00      | 99.57     | 164.0-165.0 | 0.06              | 546.16            | 0.01      | 99.92     |
| 118.0-119.0 | 0.00              | 544.26            | 0.00      | 99.57     | 165.0-166.0 | 0.06              | 546.22            | 0.01      | 99.93     |
| 119.0-120.0 | 0.00              | 544.26            | 0.00      | 99.57     | 166.0-167.0 | 0.06              | 546.27            | 0.01      | 99.94     |
| 120.0-121.0 | 0.00              | 544.26            | 0.00      | 99.57     | 167.0-168.0 | 0.05              | 546.32            | 0.01      | 99.95     |
| 121.0-122.0 | 0.00              | 544.26            | 0.00      | 99.57     | 168.0-169.0 | 0.05              | 546.37            | 0.01      | 99.95     |
| 122.0-123.0 | 0.00              | 544.26            | 0.00      | 99.57     | 169.0-170.0 | 0.04              | 546.41            | 0.01      | 99.96     |
| 123.0-124.0 | 0.00              | 544.26            | 0.00      | 99.57     | 170.0-171.0 | 0.04              | 546.45            | 0.01      | 99.97     |
| 124.0-125.0 | 0.00              | 544.26            | 0.00      | 99.57     | 171.0-172.0 | 0.03              | 546.49            | 0.01      | 99.98     |
| 125.0-126.0 | 0.00              | 544.26            | 0.00      | 99.57     | 172.0-173.0 | 0.03              | 546.52            | 0.01      | 99.98     |
| 126.0-127.0 | 0.00              | 544.26            | 0.00      | 99.57     | 173.0-174.0 | 0.03              | 546.54            | 0.00      | 99.99     |
| 127.0-128.0 | 0.00              | 544.26            | 0.00      | 99.57     | 174.0-175.0 | 0.02              | 546.57            | 0.00      | 99.99     |
| 128.0-129.0 | 0.00              | 544.26            | 0.00      | 99.57     | 175.0-176.0 | 0.02              | 546.59            | 0.00      | 99.99     |
| 129.0-130.0 | 0.00              | 544.26            | 0.00      | 99.57     | 176.0-177.0 | 0.01              | 546.60            | 0.00      | 100.00    |
| 130.0-131.0 | 0.00              | 544.26            | 0.00      | 99.57     | 177.0-178.0 | 0.01              | 546.61            | 0.00      | 100.00    |
| 131.0-132.0 | 0.00              | 544.26            | 0.00      | 99.57     | 178.0-179.0 | 0.01              | 546.62            | 0.00      | 100.00    |
| 132.0-133.0 | 0.00              | 544.27            | 0.00      | 99.57     | 179.0-180.0 | 0.00              | 546.62            | 0.00      | 100.00    |
| 133.0-134.0 | 0.00              | 544.27            | 0.00      | 99.57     |             |                   |                   |           |           |
| 134.0-135.0 | 0.01              | 544.28            | 0.00      | 99.57     |             |                   |                   |           |           |
| 135.0-136.0 | 0.01              | 544.29            | 0.00      | 99.57     |             |                   |                   |           |           |
| 136.0-137.0 | 0.02              | 544.31            | 0.00      | 99.58     |             |                   |                   |           |           |
| 137.0-138.0 | 0.02              | 544.33            | 0.00      | 99.58     |             |                   |                   |           |           |
| 138.0-139.0 | 0.02              | 544.35            | 0.00      | 99.58     |             |                   |                   |           |           |
| 139.0-140.0 | 0.03              | 544.38            | 0.01      | 99.59     |             |                   |                   |           |           |
| 140.0-141.0 | 0.03              | 544.41            | 0.01      | 99.60     |             |                   |                   |           |           |

Rectangle ISO Lighting Intensity Diagram

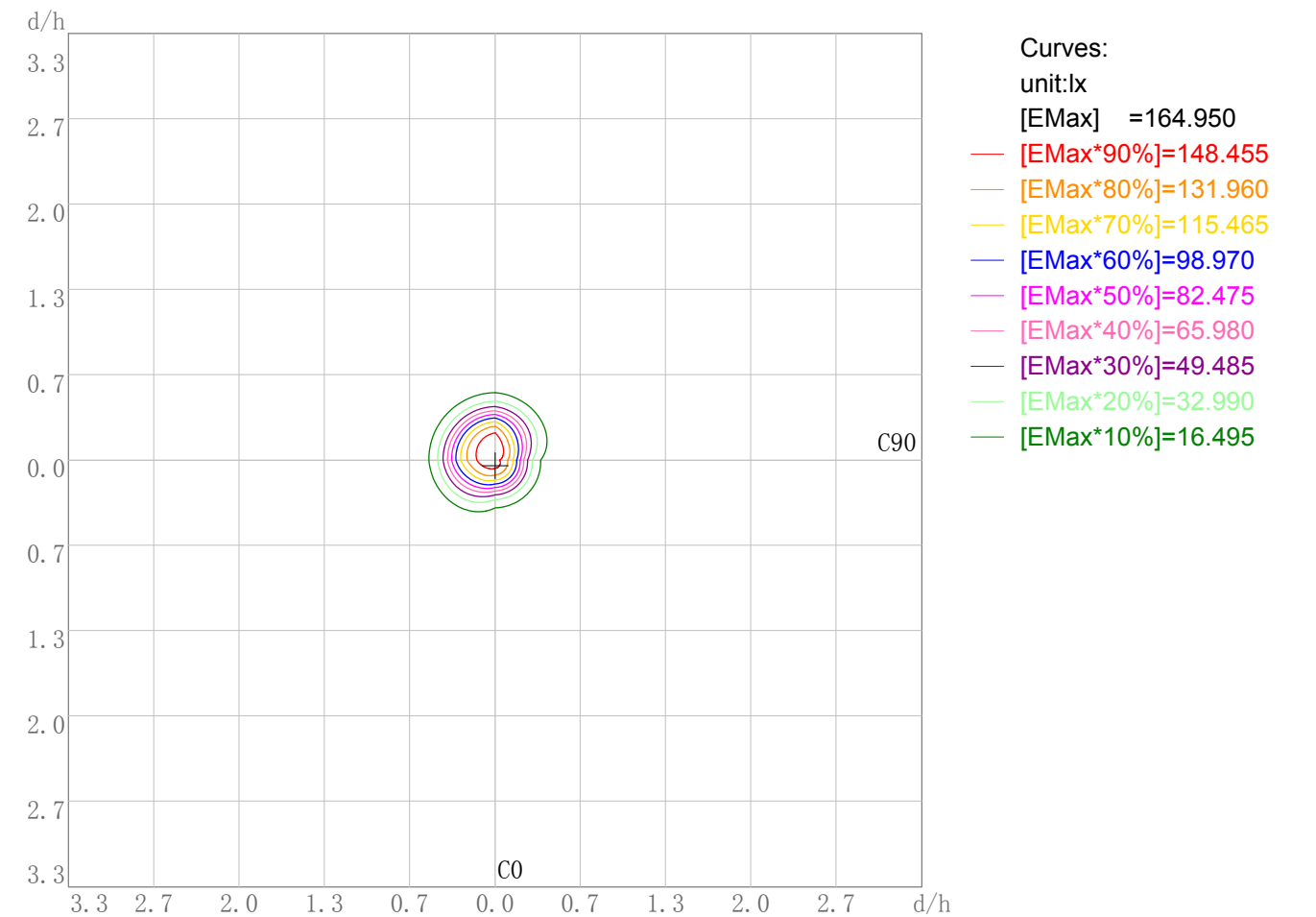
|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |



Plane ISO-Illuminance Diagram

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 164.95  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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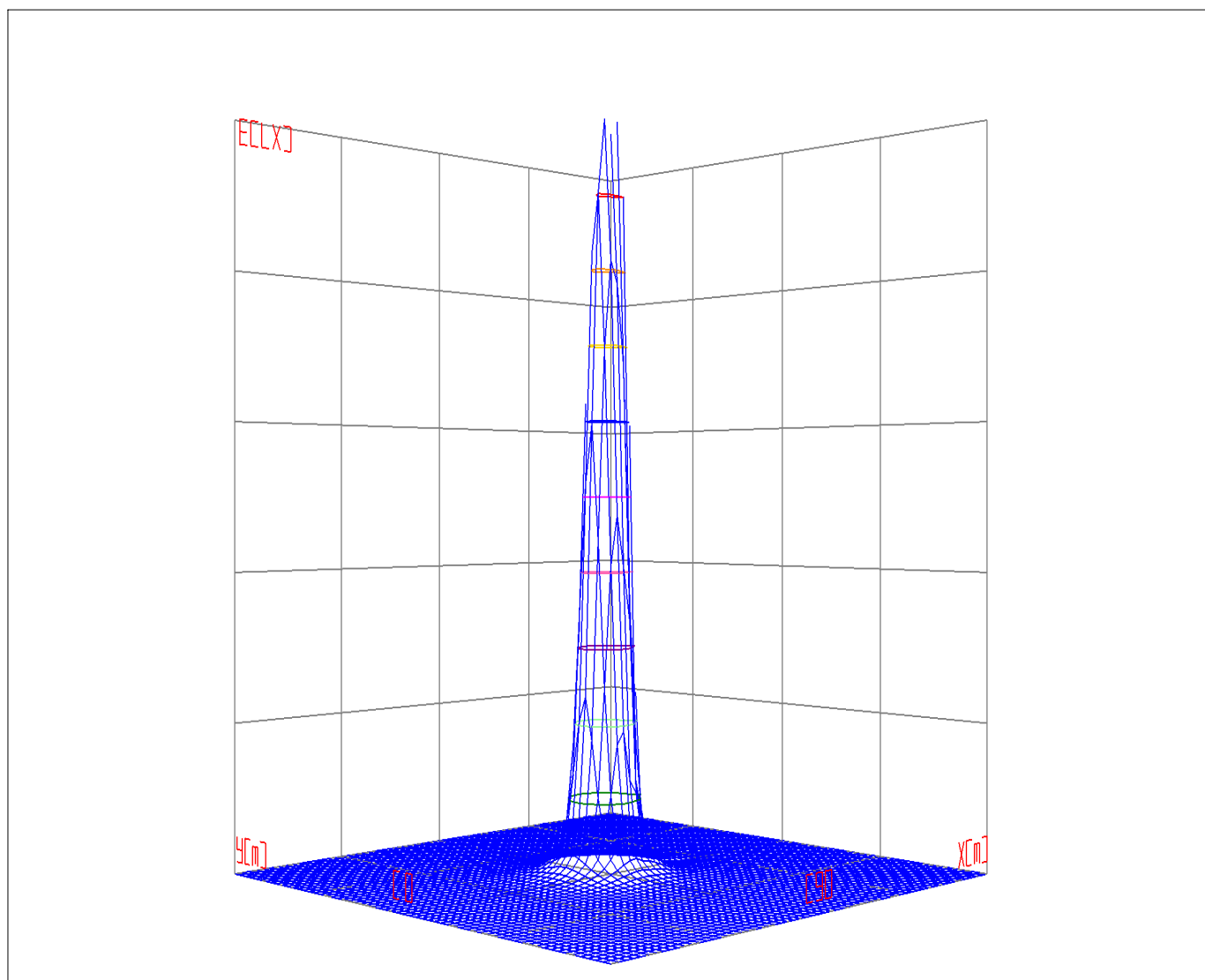
# IES Indoor Report

Photometric Filename:DL52-06-XX-01 3000K RA90 36D.IES

## 3D Plane ISO Illuminance Diagram

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

## 3D Plane Illuminance Modal



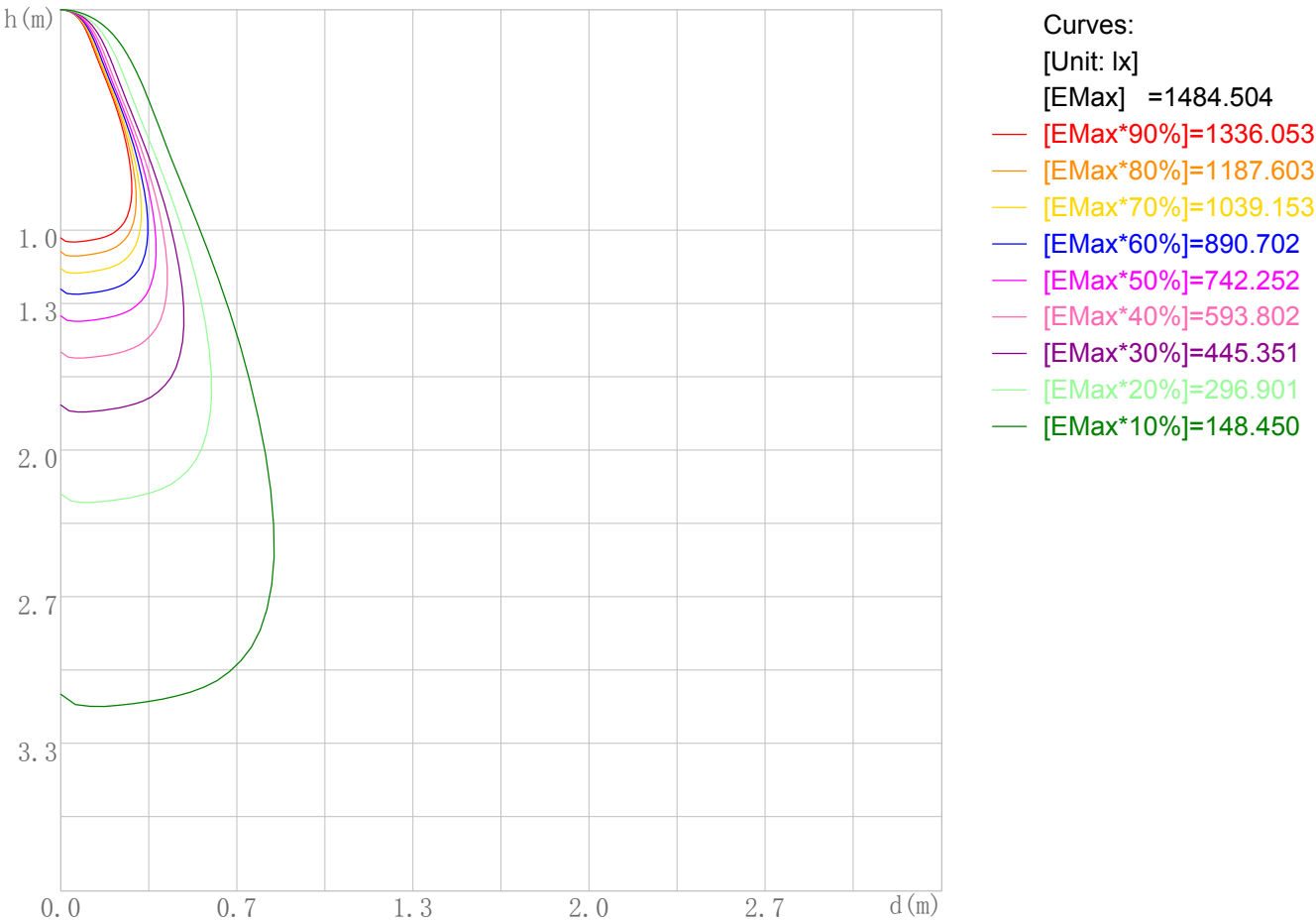
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0



Space ISO Illuminance Diagram

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catelog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

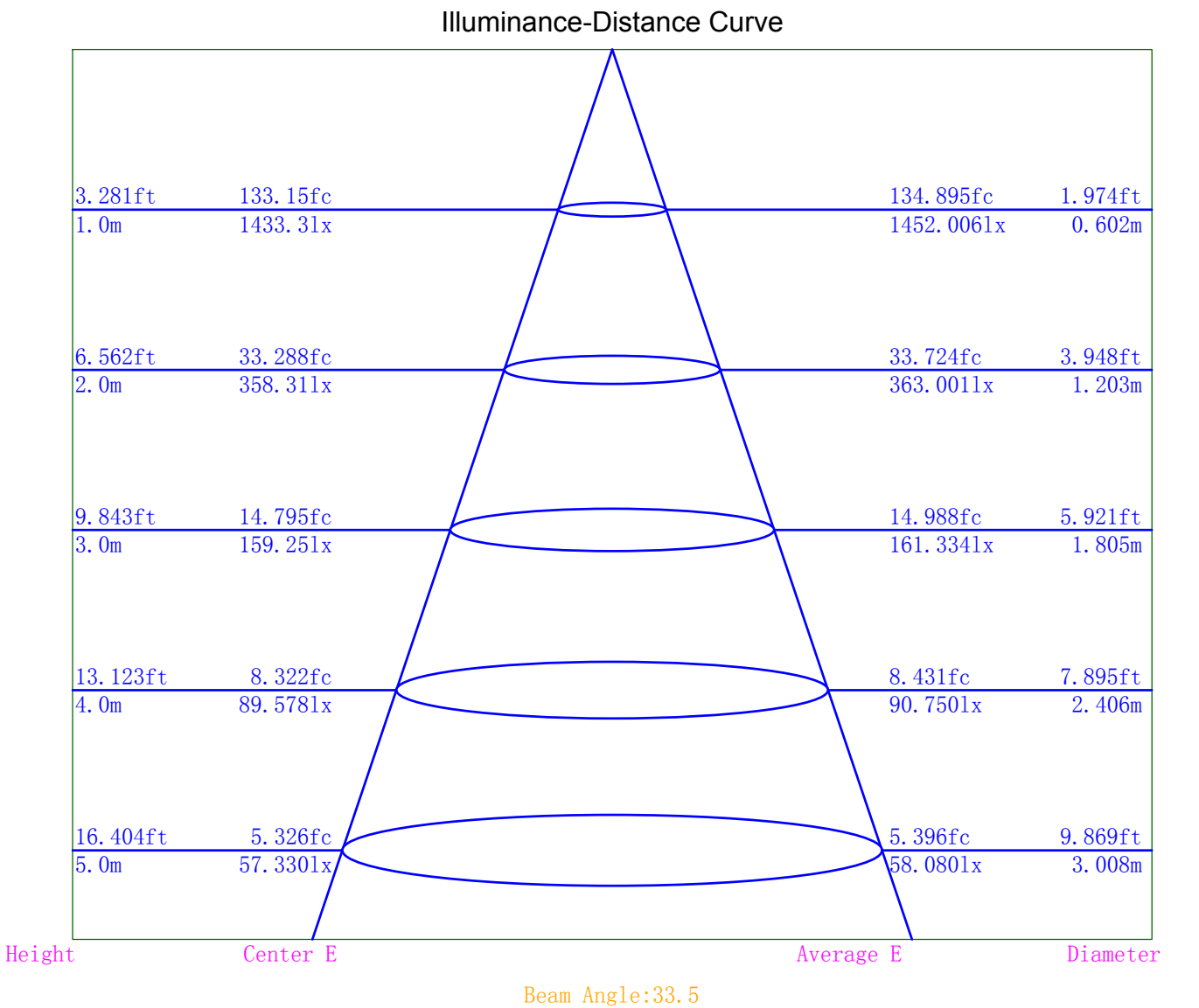
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1484.50lx,3.0deg  
Plane Maximum Lighting Intensity and @Angle:1490.624cd,0deg

Illuminance-Distance Diagram

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |



Indoor Luminance Limiting Curves

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

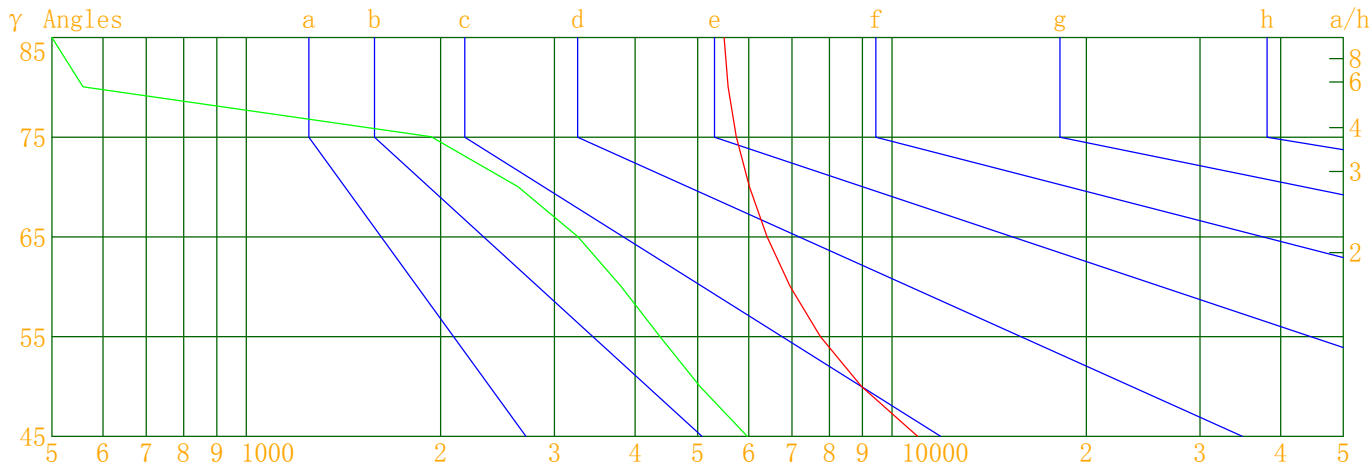
Glare Grade Table

| GI   | Quality | Using Illuminance |      |      |       |       |       |       |       |
|------|---------|-------------------|------|------|-------|-------|-------|-------|-------|
| 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       | a                 |      |      |       | 2000  | 1000  | 500   | <=300 |
|      |         |                   | b    | c    | d     | e     | f     | g     | h     |

Luminance Table

| Gama(deg) | 45    | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   |
|-----------|-------|------|------|------|------|------|------|------|------|
| C0        | 10957 | 8967 | 7745 | 6958 | 6403 | 6014 | 5739 | 5573 | 5496 |
| C90       | 5970  | 5043 | 4371 | 3806 | 3260 | 2635 | 1933 | 559  | 0    |

Luminance Limiting Curve



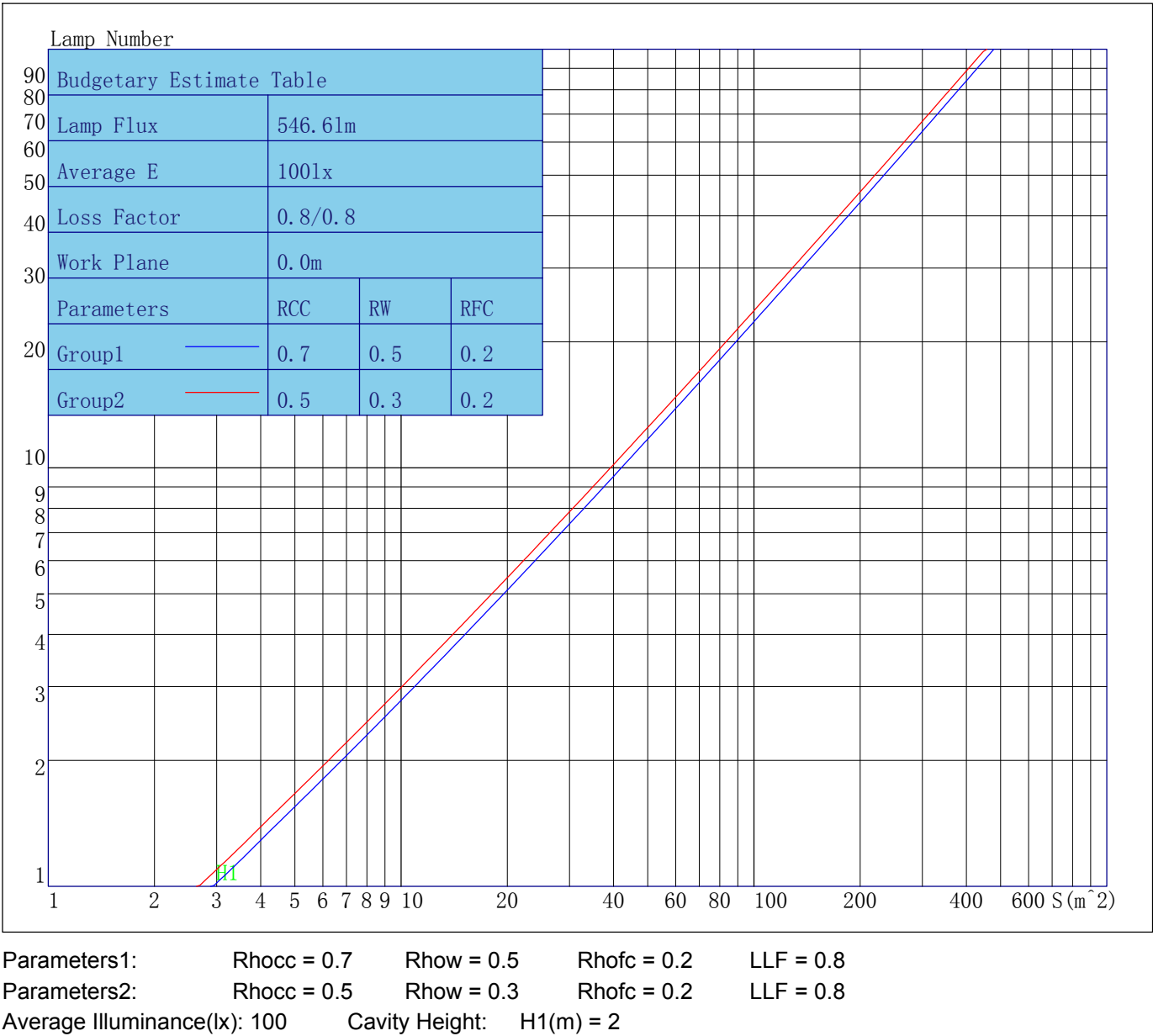
Luminous Size: Length(m)=-0.076 Width(m)=-0.076 Height(m)=0.000 Area(m^2)=0.004536

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catalog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catalog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |



Indoor Coefficient of Utilization Table

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catelog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

| Coefficients of Utilization - Zonal Cavity Method |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Coef.   | Effective Floor Cavity Reflectance RFC=0.20 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| RhoCC (%)   | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
| RhoW (%)  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR   | Coefficient of Utilization(%)               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119   | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 114   | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 109   | 104 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 89  |
| 3   | 104   | 99  | 94  | 90  | 102 | 97  | 93  | 90  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 87  | 85  | 84  |
| 4   | 100   | 93  | 88  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 86  | 84  | 81  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 83  | 80  | 77  | 76  |
| 6   | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 73  |
| 7   | 89  | 81  | 76  | 72  | 88  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 70  |
| 8   | 86  | 78  | 73  | 69  | 85  | 77  | 72  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 74  | 71  | 68  | 67  |
| 9   | 83  | 75  | 70  | 66  | 82  | 74  | 70  | 66  | 73  | 69  | 66  | 73  | 69  | 66  | 72  | 68  | 66  | 64  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 69  | 66  | 63  | 62  |

Unified Glare Rating Table

|   |                       |                              |
|---|-----------------------|------------------------------|
| Lum. Name: DL52-06-XX-01 3000K RA90 36D         | Lum. Catelog:         | Test ID: 01                  |
| Lamp Name:                                      | Lamp Catelog: LED     | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co., Ltd | Test Machine:GON-2000 | Test Date: 2021/10/27        |

Unified Glare Rating Table

|   |                 |      |      |      |      |               |      |      |      |      |
|---|-----------------|------|------|------|------|---------------|------|------|------|------|
| Ceiling RCC                                       | 0.70            | 0.70 | 0.50 | 0.50 | 0.30 | 0.70          | 0.70 | 0.50 | 0.50 | 0.30 |
| Wall RW   | 0.50            | 0.30 | 0.50 | 0.30 | 0.30 | 0.50          | 0.30 | 0.50 | 0.30 | 0.30 |
| Floor RFC   | 0.20            | 0.20 | 0.20 | 0.20 | 0.20 | 0.20          | 0.20 | 0.20 | 0.20 | 0.20 |
| Room Size   | Vewed crosswise |      |      |      |      | Vewed endwise |      |      |      |      |
| X=2H    Y=2H                                      | 15.2            | 16.4 | 15.6 | 16.7 | 17.1 | 11.8          | 13.0 | 12.2 | 13.3 | 13.7 |
|   | 16.1            | 17.2 | 16.5 | 17.6 | 18.0 | 12.4          | 13.6 | 12.8 | 13.9 | 14.3 |
|   | 16.6            | 17.6 | 17.0 | 18.0 | 18.4 | 12.6          | 13.7 | 13.0 | 14.0 | 14.4 |
|   | 16.9            | 17.9 | 17.4 | 18.3 | 18.7 | 12.6          | 13.6 | 13.0 | 14.0 | 14.4 |
|   | 17.1            | 18.0 | 17.5 | 18.4 | 18.8 | 12.5          | 13.5 | 13.0 | 13.9 | 14.3 |
|   | 17.2            | 18.1 | 17.6 | 18.5 | 18.9 | 12.5          | 13.4 | 12.9 | 13.8 | 14.2 |
| X=4H    Y=2H                                      | 15.4            | 16.5 | 15.8 | 16.8 | 17.2 | 12.2          | 13.3 | 12.6 | 13.6 | 14.0 |
|   | 16.5            | 17.5 | 17.0 | 17.9 | 18.3 | 13.0          | 14.0 | 13.5 | 14.4 | 14.8 |
|   | 17.1            | 17.9 | 17.5 | 18.4 | 18.8 | 13.3          | 14.1 | 13.7 | 14.6 | 15.0 |
|   | 17.6            | 18.4 | 18.1 | 18.8 | 19.3 | 13.3          | 14.1 | 13.8 | 14.5 | 15.0 |
|   | 17.8            | 18.5 | 18.3 | 19.0 | 19.5 | 13.2          | 14.0 | 13.7 | 14.4 | 14.9 |
|   | 18.0            | 18.6 | 18.5 | 19.1 | 19.6 | 13.2          | 13.9 | 13.7 | 14.3 | 14.8 |
| X=8H    Y=4H                                      | 17.2            | 17.9 | 17.7 | 18.4 | 18.9 | 13.4          | 14.2 | 13.9 | 14.6 | 15.1 |
|   | 17.8            | 18.5 | 18.3 | 19.0 | 19.6 | 13.5          | 14.1 | 14.0 | 14.6 | 15.2 |
|   | 18.1            | 18.7 | 18.6 | 19.2 | 19.7 | 13.4          | 14.0 | 14.0 | 14.6 | 15.1 |
|   | 18.4            | 18.9 | 18.9 | 19.4 | 20.0 | 13.4          | 14.0 | 13.9 | 14.5 | 15.0 |
| X=12H    Y=4H                                     | 17.2            | 17.9 | 17.7 | 18.3 | 18.8 | 13.4          | 14.1 | 13.9 | 14.6 | 15.1 |
|   | 17.8            | 18.4 | 18.4 | 18.9 | 19.5 | 13.5          | 14.1 | 14.0 | 14.6 | 15.1 |
|   | 18.2            | 18.7 | 18.7 | 19.2 | 19.8 | 13.5          | 14.0 | 14.0 | 14.5 | 15.1 |
| Variations with the objerver position at spacings |                 |      |      |      |      |               |      |      |      |      |
| S=1.0H  | 0.4/-0.4        |      |      |      |      | 1.4/-1.8      |      |      |      |      |
| S=1.5H  | 0.7/-0.8        |      |      |      |      | 1.8/-2.7      |      |      |      |      |
| S=2.0H  | 0.9/-1.0        |      |      |      |      | 2.2/-3.0      |      |      |      |      |
| Reduced UGR Table:                                |                 |      |      |      |      |               |      |      |      |      |
| Nordic Standard Table:                            | BK0             |      |      |      |      | BK0           |      |      |      |      |
| Correction Value                                  | 2.2             |      |      |      |      | 1.4           |      |      |      |      |

o the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report

Photometric Filename:DL52-06-XX-01 3000K RA90 36D.IES

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Candela Tabulation

| V/H    | C0.0    | C90.0   | C180.0  | C270.0  |
|--------|---------|---------|---------|---------|
| γ 0.0  | 1433.26 | 1433.26 | 1433.26 | 1433.26 |
| γ 1.0  | 1476.90 | 1362.26 | 1437.24 | 1395.40 |
| γ 2.0  | 1486.96 | 1339.36 | 1408.41 | 1404.74 |
| γ 3.0  | 1490.62 | 1310.86 | 1371.26 | 1412.83 |
| γ 4.0  | 1489.99 | 1274.57 | 1330.77 | 1415.87 |
| γ 5.0  | 1489.28 | 1232.47 | 1288.02 | 1414.81 |
| γ 6.0  | 1488.04 | 1184.04 | 1242.01 | 1409.10 |
| γ 7.0  | 1486.90 | 1125.51 | 1188.92 | 1397.53 |
| γ 8.0  | 1483.38 | 1056.57 | 1129.56 | 1379.69 |
| γ 9.0  | 1478.14 | 976.56  | 1063.32 | 1359.32 |
| γ 10.0 | 1468.99 | 884.47  | 983.72  | 1338.73 |
| γ 11.0 | 1455.50 | 787.94  | 893.76  | 1315.20 |
| γ 12.0 | 1431.44 | 692.06  | 795.74  | 1284.41 |
| γ 13.0 | 1400.69 | 595.47  | 695.72  | 1249.40 |
| γ 14.0 | 1360.26 | 504.16  | 598.85  | 1203.67 |
| γ 15.0 | 1306.18 | 420.90  | 505.71  | 1153.17 |
| γ 16.0 | 1237.06 | 347.99  | 420.17  | 1093.10 |
| γ 17.0 | 1156.24 | 286.72  | 346.69  | 1021.32 |
| γ 18.0 | 1064.48 | 236.18  | 284.49  | 939.15  |
| γ 19.0 | 961.38  | 195.30  | 233.83  | 850.36  |
| γ 20.0 | 853.07  | 163.38  | 193.35  | 756.86  |
| γ 21.0 | 742.96  | 138.43  | 160.82  | 662.91  |
| γ 22.0 | 637.51  | 119.05  | 134.58  | 572.08  |
| γ 23.0 | 539.76  | 103.83  | 114.00  | 485.02  |
| γ 24.0 | 452.40  | 91.55   | 97.54   | 404.31  |
| γ 25.0 | 373.87  | 81.61   | 84.53   | 333.92  |
| γ 26.0 | 306.64  | 73.31   | 74.04   | 274.96  |
| γ 27.0 | 250.97  | 66.42   | 65.59   | 226.21  |
| γ 28.0 | 206.24  | 60.55   | 58.69   | 186.91  |
| γ 29.0 | 171.27  | 55.43   | 52.97   | 156.77  |
| γ 30.0 | 143.78  | 50.98   | 48.13   | 132.99  |
| γ 31.0 | 122.93  | 47.00   | 43.96   | 114.18  |
| γ 32.0 | 107.04  | 43.54   | 40.43   | 99.35   |
| γ 33.0 | 94.45   | 40.40   | 37.26   | 87.40   |
| γ 34.0 | 84.36   | 37.58   | 34.46   | 77.65   |
| γ 35.0 | 76.18   | 35.04   | 32.02   | 69.65   |
| γ 36.0 | 69.09   | 32.74   | 29.90   | 63.00   |
| γ 37.0 | 63.16   | 30.64   | 28.04   | 57.38   |
| γ 38.0 | 57.99   | 28.71   | 26.39   | 52.49   |
| γ 39.0 | 53.49   | 26.98   | 24.95   | 48.28   |
| γ 40.0 | 49.53   | 25.40   | 23.69   | 44.47   |
| γ 41.0 | 46.03   | 23.94   | 22.55   | 41.20   |
| γ 42.0 | 42.91   | 22.60   | 21.53   | 38.21   |
| γ 43.0 | 40.06   | 21.37   | 20.59   | 35.71   |
| γ 44.0 | 37.48   | 20.21   | 19.72   | 33.34   |
| γ 45.0 | 35.15   | 19.15   | 18.87   | 31.26   |
| γ 46.0 | 33.01   | 18.14   | 18.01   | 29.48   |

Candela Tabulation - (Cont.)

| V/H    | C0.0  | C90.0 | C180.0 | C270.0 |
|--------|-------|-------|--------|--------|
| γ 47.0 | 31.06 | 17.20 | 17.20  | 27.89  |
| γ 48.0 | 29.29 | 16.29 | 16.34  | 26.47  |
| γ 49.0 | 27.65 | 15.47 | 15.53  | 25.20  |
| γ 50.0 | 26.15 | 14.70 | 14.73  | 24.06  |
| γ 51.0 | 24.78 | 13.98 | 13.96  | 22.94  |
| γ 52.0 | 23.49 | 13.28 | 13.23  | 21.91  |
| γ 53.0 | 22.32 | 12.62 | 12.52  | 20.96  |
| γ 54.0 | 21.20 | 11.98 | 11.90  | 20.03  |
| γ 55.0 | 20.15 | 11.37 | 11.30  | 19.17  |
| γ 56.0 | 19.20 | 10.78 | 10.71  | 18.32  |
| γ 57.0 | 18.28 | 10.22 | 10.14  | 17.49  |
| γ 58.0 | 17.40 | 9.66  | 9.63   | 16.72  |
| γ 59.0 | 16.58 | 9.15  | 9.14   | 15.92  |
| γ 60.0 | 15.78 | 8.63  | 8.65   | 15.14  |
| γ 61.0 | 15.03 | 8.12  | 8.20   | 14.41  |
| γ 62.0 | 14.31 | 7.64  | 7.74   | 13.68  |
| γ 63.0 | 13.61 | 7.17  | 7.30   | 12.97  |
| γ 64.0 | 12.94 | 6.70  | 6.85   | 12.33  |
| γ 65.0 | 12.28 | 6.25  | 6.42   | 11.75  |
| γ 66.0 | 11.65 | 5.81  | 6.00   | 11.20  |
| γ 67.0 | 11.05 | 5.39  | 5.58   | 10.67  |
| γ 68.0 | 10.47 | 4.94  | 5.19   | 10.16  |
| γ 69.0 | 9.89  | 4.50  | 4.79   | 9.65   |
| γ 70.0 | 9.33  | 4.09  | 4.40   | 9.16   |
| γ 71.0 | 8.80  | 3.67  | 3.99   | 8.67   |
| γ 72.0 | 8.25  | 3.31  | 3.60   | 8.20   |
| γ 73.0 | 7.72  | 3.01  | 3.24   | 7.72   |
| γ 74.0 | 7.22  | 2.69  | 2.89   | 7.27   |
| γ 75.0 | 6.74  | 2.27  | 2.58   | 6.82   |
| γ 76.0 | 6.27  | 1.87  | 2.26   | 6.39   |
| γ 77.0 | 5.80  | 1.52  | 1.94   | 5.94   |
| γ 78.0 | 5.31  | 1.06  | 1.62   | 5.48   |
| γ 79.0 | 4.84  | 0.76  | 1.35   | 5.05   |
| γ 80.0 | 4.39  | 0.44  | 0.99   | 4.63   |
| γ 81.0 | 3.95  | 0.17  | 0.72   | 4.24   |
| γ 82.0 | 3.49  | 0.00  | 0.50   | 3.85   |
| γ 83.0 | 3.05  | 0.00  | 0.23   | 3.46   |
| γ 84.0 | 2.67  | 0.00  | 0.00   | 3.05   |
| γ 85.0 | 2.17  | 0.00  | 0.00   | 2.64   |
| γ 86.0 | 1.66  | 0.00  | 0.00   | 2.28   |
| γ 87.0 | 1.35  | 0.00  | 0.00   | 1.91   |
| γ 88.0 | 1.06  | 0.00  | 0.00   | 1.57   |
| γ 89.0 | 0.82  | 0.00  | 0.00   | 1.36   |
| γ 90.0 | 0.62  | 0.00  | 0.00   | 1.06   |
| γ 91.0 | 0.39  | 0.00  | 0.00   | 0.72   |
| γ 92.0 | 0.28  | 0.00  | 0.00   | 0.37   |
| γ 93.0 | 0.22  | 0.00  | 0.00   | 0.19   |



# IES Indoor Report

Photometric Filename:DL52-06-XX-01 3000K RA90 36D.IES

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## Candela Tabulation - (Cont.)

| V/H     | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0  | 0.16 | 0.00  | 0.00   | 0.12   |
| γ 95.0  | 0.09 | 0.00  | 0.00   | 0.05   |
| γ 96.0  | 0.03 | 0.00  | 0.00   | 0.00   |
| γ 97.0  | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 98.0  | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 99.0  | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 100.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 101.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 102.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 103.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 104.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 105.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 106.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 107.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 108.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 109.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 110.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 111.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 112.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 113.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 114.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 115.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 116.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 117.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 118.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 119.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 120.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 121.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 122.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 123.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 124.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 125.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 126.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 127.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 128.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 129.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 130.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 131.0 | 0.00 | 0.00  | 0.00   | 0.00   |
| γ 132.0 | 0.00 | 0.00  | 0.09   | 0.00   |
| γ 133.0 | 0.00 | 0.00  | 0.19   | 0.00   |
| γ 134.0 | 0.00 | 0.00  | 0.30   | 0.00   |
| γ 135.0 | 0.00 | 0.08  | 0.40   | 0.00   |
| γ 136.0 | 0.00 | 0.19  | 0.52   | 0.00   |
| γ 137.0 | 0.00 | 0.30  | 0.64   | 0.00   |
| γ 138.0 | 0.00 | 0.41  | 0.74   | 0.00   |
| γ 139.0 | 0.00 | 0.53  | 0.87   | 0.08   |
| γ 140.0 | 0.00 | 0.64  | 0.98   | 0.16   |

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Candela Tabulation - (Cont.)

| V/H     | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 141.0 | 0.00 | 0.75  | 1.10   | 0.26   |
| γ 142.0 | 0.08 | 0.87  | 1.22   | 0.36   |
| γ 143.0 | 0.19 | 0.98  | 1.33   | 0.45   |
| γ 144.0 | 0.30 | 1.09  | 1.43   | 0.56   |
| γ 145.0 | 0.41 | 1.18  | 1.52   | 0.66   |
| γ 146.0 | 0.52 | 1.29  | 1.63   | 0.78   |
| γ 147.0 | 0.63 | 1.38  | 1.74   | 0.90   |
| γ 148.0 | 0.76 | 1.47  | 1.83   | 0.99   |
| γ 149.0 | 0.87 | 1.56  | 1.91   | 1.11   |
| γ 150.0 | 0.98 | 1.64  | 2.00   | 1.21   |
| γ 151.0 | 1.09 | 1.73  | 2.07   | 1.31   |
| γ 152.0 | 1.21 | 1.79  | 2.13   | 1.41   |
| γ 153.0 | 1.31 | 1.85  | 2.20   | 1.51   |
| γ 154.0 | 1.41 | 1.91  | 2.24   | 1.61   |
| γ 155.0 | 1.51 | 1.95  | 2.29   | 1.71   |
| γ 156.0 | 1.61 | 1.98  | 2.31   | 1.80   |
| γ 157.0 | 1.71 | 2.02  | 2.34   | 1.89   |
| γ 158.0 | 1.79 | 2.02  | 2.34   | 1.96   |
| γ 159.0 | 1.88 | 2.03  | 2.35   | 2.04   |
| γ 160.0 | 1.95 | 2.03  | 2.34   | 2.11   |
| γ 161.0 | 2.02 | 2.02  | 2.33   | 2.16   |
| γ 162.0 | 2.08 | 2.01  | 2.31   | 2.21   |
| γ 163.0 | 2.13 | 1.98  | 2.29   | 2.26   |
| γ 164.0 | 2.16 | 1.97  | 2.26   | 2.29   |
| γ 165.0 | 2.20 | 1.95  | 2.23   | 2.31   |
| γ 166.0 | 2.22 | 1.95  | 2.20   | 2.32   |
| γ 167.0 | 2.23 | 1.94  | 2.17   | 2.32   |
| γ 168.0 | 2.24 | 1.95  | 2.14   | 2.31   |
| γ 169.0 | 2.24 | 1.97  | 2.13   | 2.29   |
| γ 170.0 | 2.24 | 1.98  | 2.12   | 2.28   |
| γ 171.0 | 2.23 | 2.01  | 2.11   | 2.26   |
| γ 172.0 | 2.22 | 2.03  | 2.12   | 2.23   |
| γ 173.0 | 2.22 | 2.05  | 2.13   | 2.22   |
| γ 174.0 | 2.22 | 2.08  | 2.13   | 2.20   |
| γ 175.0 | 2.23 | 2.12  | 2.14   | 2.19   |
| γ 176.0 | 2.23 | 2.14  | 2.15   | 2.19   |
| γ 177.0 | 2.23 | 2.16  | 2.17   | 2.19   |
| γ 178.0 | 2.24 | 2.16  | 2.18   | 2.21   |
| γ 179.0 | 2.22 | 2.15  | 2.18   | 2.22   |
| γ 180.0 | 2.20 | 2.20  | 2.20   | 2.20   |