

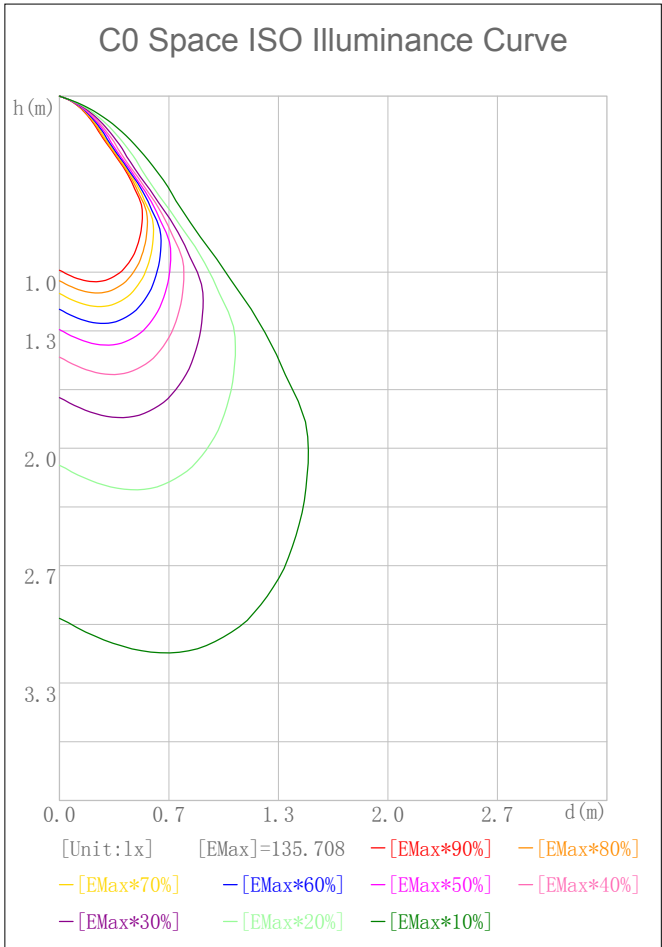
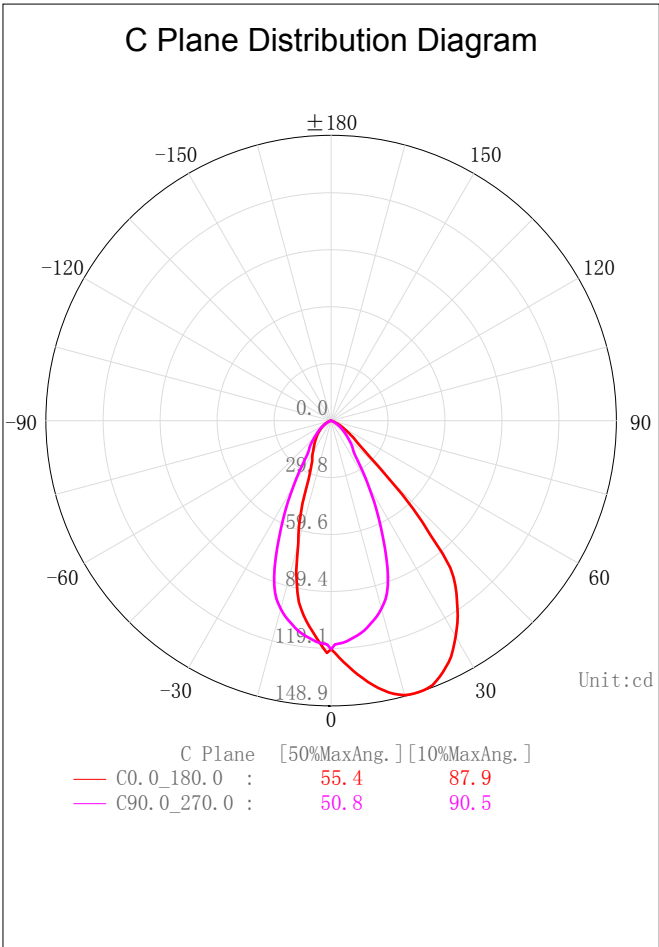
Indoor Luminaire Photometric Data

Description Information

| | | | |
|---|-------------------------|----------------------|-----------------------|
| Luminary Name: DL43-05-PR-03 5000K RA90 | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: LED | Test Date: 2020/12/23 |
| 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):0.000m*0.000m*0.000m | | Lum. Area (m2):0.000 | Lum. W (kg): 0.000 |
| Test System: C, γ | Test Step: C=30.0 γ=1.0 | Temp. (°C): 25 | Humidity(%): 50.0 |

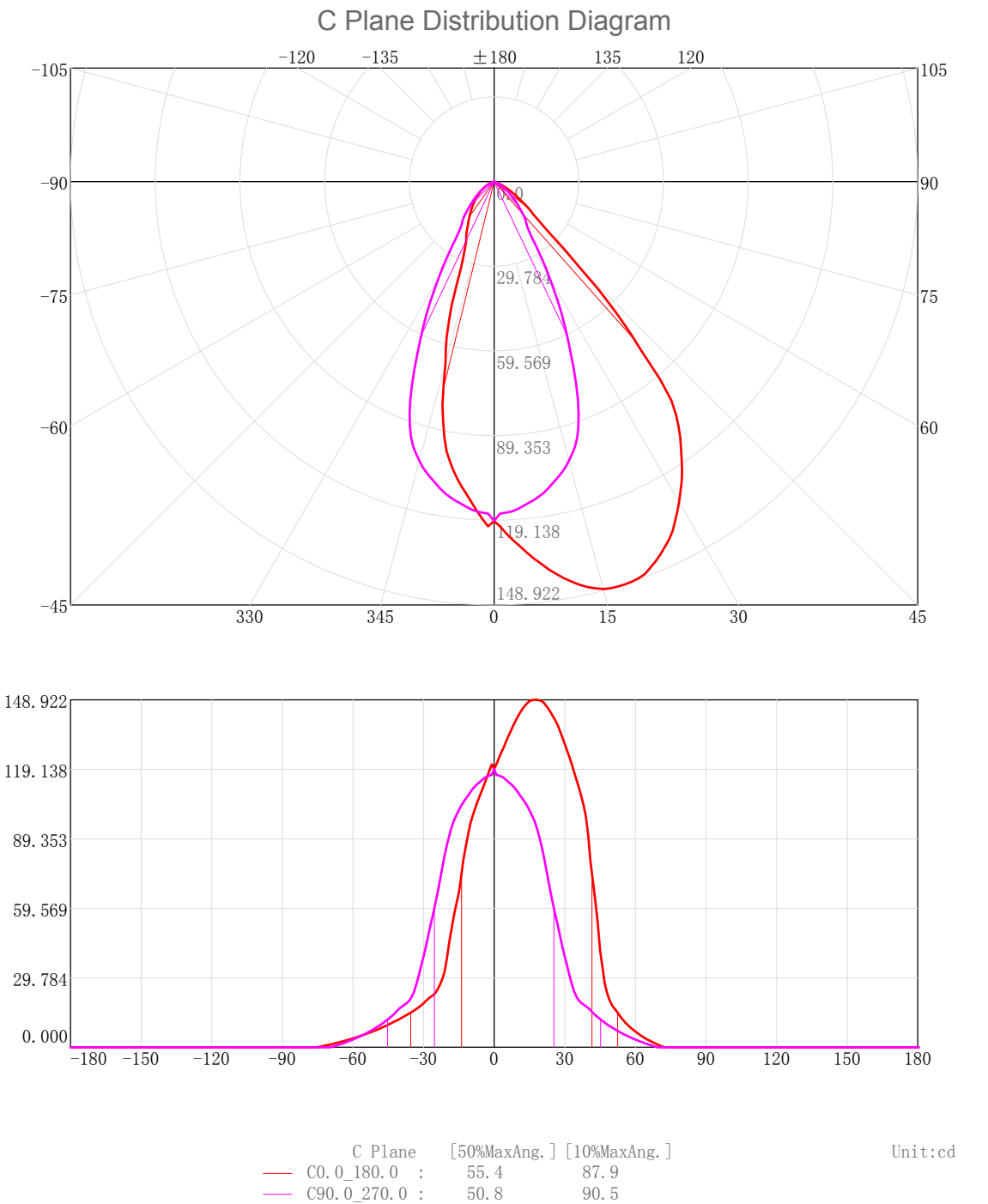
Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|---|-----------------------------------|--|--|
| Rated Flux(lm): 122.560 | Luminary Flux(lm): 122.558 | Field Angle(10%Imax): 87.9(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 122.558lm 100.00% | |
| Rated Voltage(V): | Luminary EER(lm/W): 25.528 | Up Lumens&Percent: 0.000lm 0.00% | |
| Tested Power(W): 4.801 | Max. Candela(cd): 148.922 | S/MH: C0_a180=0.989 C90_270=0.821 | |
| Lamps' Inside: 1 | Max Cand@Ang. (°) : C=0.0 γ=18.0 | CIE Type: Semi-Direct | |
| Tested Electrics (V, A, pf):240.0, 0.021, 0.918 | Beam Angle(50%Imax): 55.4(°) | ErP ϕ use(90°) : 108.903lm | |
| Lamp Size (W*L*H):0.000m*0.000m*0.000m | Left=-13.8° , Right=41.6° | IRF(%): 172.998 | |



2D Plane Light Intensity Distribution Curve

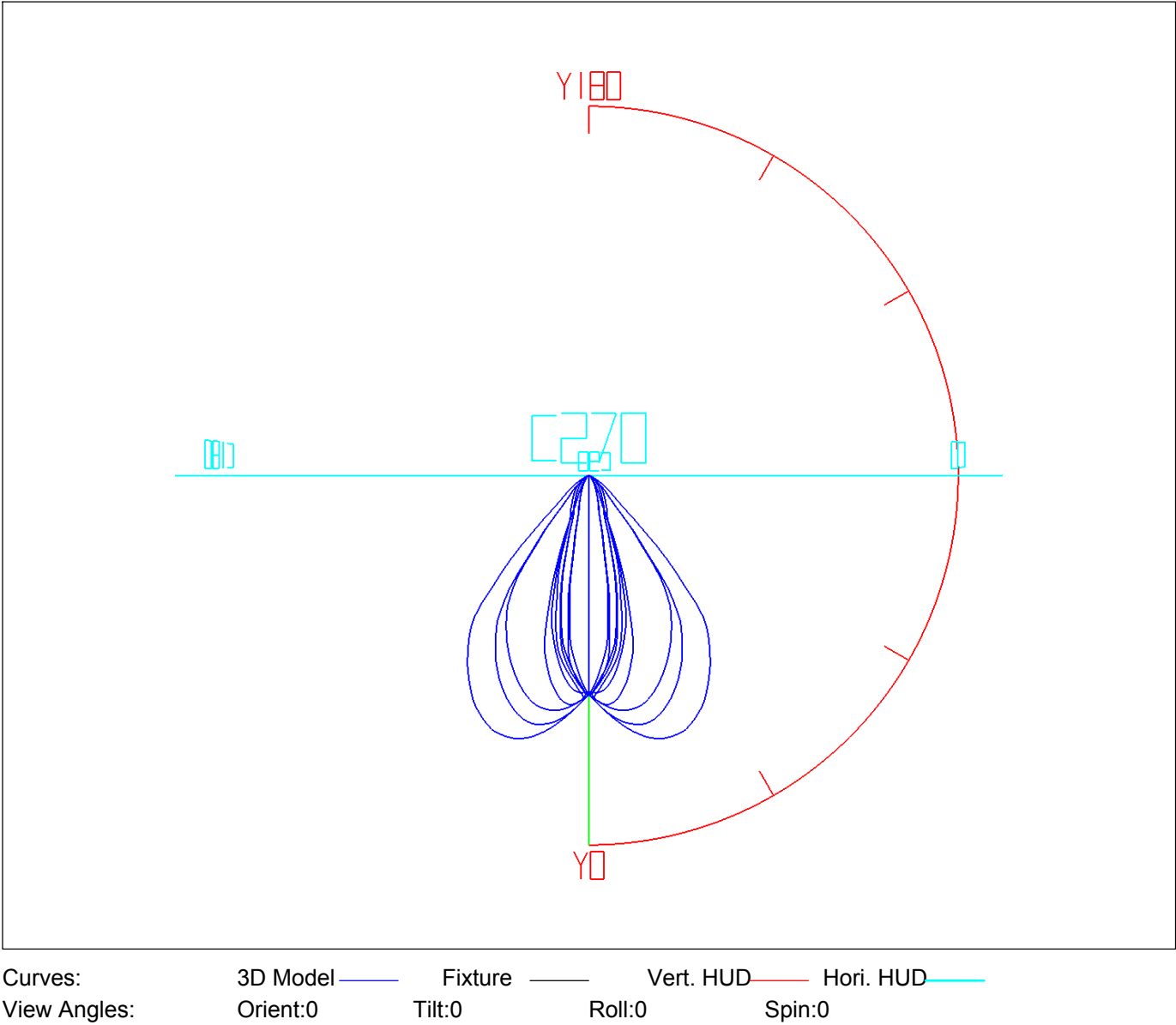
| | | |
|---|-----------------------|------------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: LED | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2020/12/23 |



3D Light Intensity Distribution Modal

| | | |
|--|-----------------------|----------------------------|
| Lum. Name:DL43-05-PR-03 5000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Deparment |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2020/12/23 |

3D Light Intensity Distribution Modal



Zonal Flux Tabulation

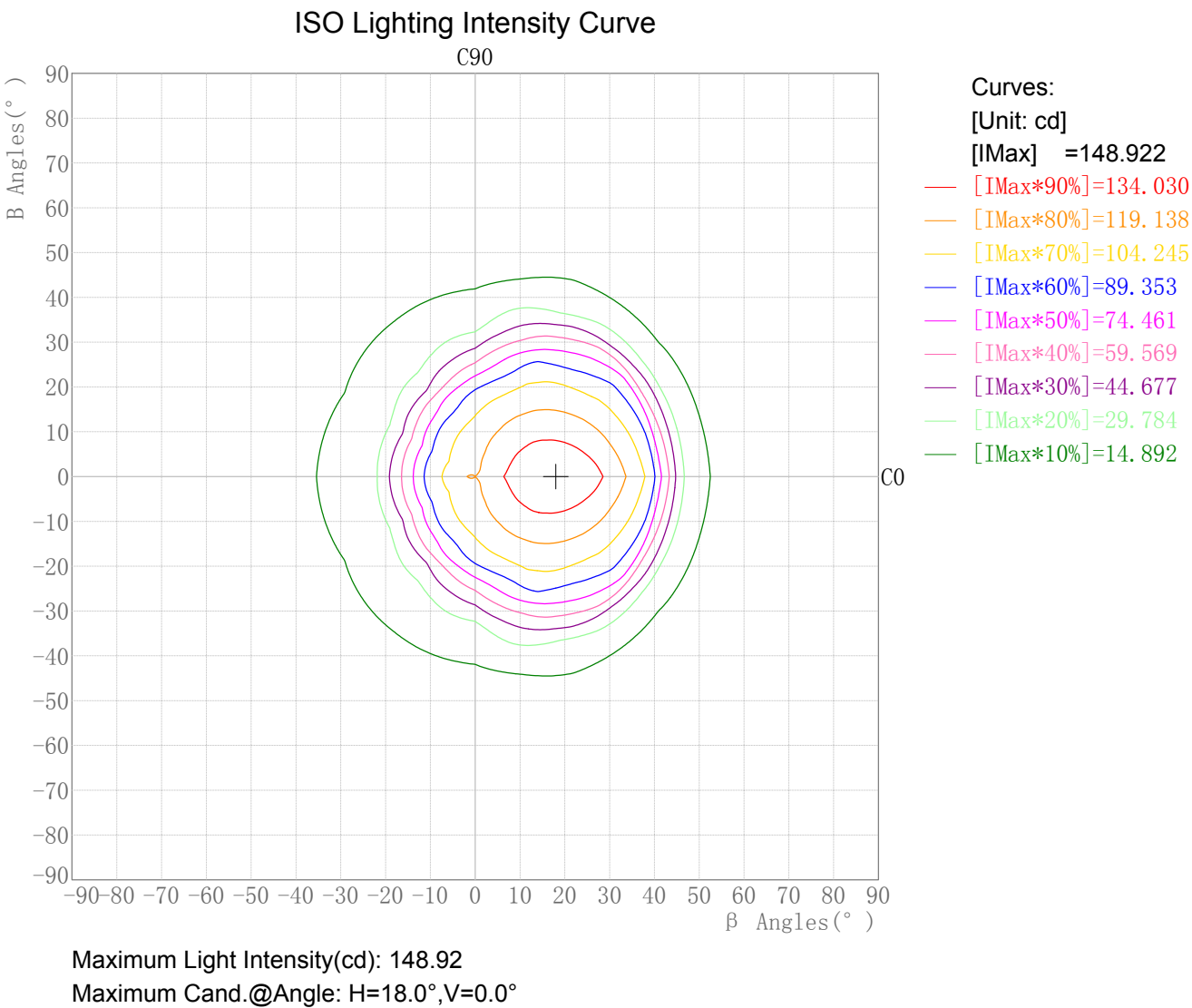
| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-----------|-------------------|-------------------|-----------|-----------|-----------|-------------------|-------------------|-----------|-----------|
| 0.0-1.0 | 0.11 | 0.11 | 0.09 | 0.09 | 47.0-48.0 | 1.03 | 112.30 | 0.84 | 91.63 |
| 1.0-2.0 | 0.34 | 0.45 | 0.28 | 0.37 | 48.0-49.0 | 0.96 | 113.26 | 0.78 | 92.41 |
| 2.0-3.0 | 0.57 | 1.02 | 0.46 | 0.83 | 49.0-50.0 | 0.90 | 114.16 | 0.74 | 93.15 |
| 3.0-4.0 | 0.79 | 1.81 | 0.65 | 1.48 | 50.0-51.0 | 0.85 | 115.01 | 0.69 | 93.84 |
| 4.0-5.0 | 1.01 | 2.82 | 0.83 | 2.30 | 51.0-52.0 | 0.80 | 115.81 | 0.65 | 94.49 |
| 5.0-6.0 | 1.23 | 4.06 | 1.00 | 3.31 | 52.0-53.0 | 0.74 | 116.55 | 0.61 | 95.09 |
| 6.0-7.0 | 1.45 | 5.50 | 1.18 | 4.49 | 53.0-54.0 | 0.69 | 117.24 | 0.56 | 95.66 |
| 7.0-8.0 | 1.66 | 7.16 | 1.35 | 5.84 | 54.0-55.0 | 0.64 | 117.88 | 0.52 | 96.18 |
| 8.0-9.0 | 1.86 | 9.02 | 1.52 | 7.36 | 55.0-56.0 | 0.59 | 118.47 | 0.48 | 96.67 |
| 9.0-10.0 | 2.06 | 11.08 | 1.68 | 9.04 | 56.0-57.0 | 0.55 | 119.02 | 0.45 | 97.11 |
| 10.0-11.0 | 2.25 | 13.33 | 1.84 | 10.88 | 57.0-58.0 | 0.50 | 119.52 | 0.41 | 97.52 |
| 11.0-12.0 | 2.42 | 15.76 | 1.98 | 12.86 | 58.0-59.0 | 0.46 | 119.98 | 0.38 | 97.90 |
| 12.0-13.0 | 2.58 | 18.33 | 2.10 | 14.96 | 59.0-60.0 | 0.42 | 120.40 | 0.34 | 98.24 |
| 13.0-14.0 | 2.72 | 21.05 | 2.22 | 17.18 | 60.0-61.0 | 0.38 | 120.78 | 0.31 | 98.55 |
| 14.0-15.0 | 2.84 | 23.89 | 2.32 | 19.49 | 61.0-62.0 | 0.34 | 121.12 | 0.27 | 98.82 |
| 15.0-16.0 | 2.95 | 26.83 | 2.40 | 21.89 | 62.0-63.0 | 0.30 | 121.41 | 0.24 | 99.06 |
| 16.0-17.0 | 3.05 | 29.88 | 2.48 | 24.38 | 63.0-64.0 | 0.26 | 121.67 | 0.21 | 99.28 |
| 17.0-18.0 | 3.13 | 33.01 | 2.55 | 26.93 | 64.0-65.0 | 0.22 | 121.90 | 0.18 | 99.46 |
| 18.0-19.0 | 3.19 | 36.19 | 2.60 | 29.53 | 65.0-66.0 | 0.19 | 122.08 | 0.15 | 99.61 |
| 19.0-20.0 | 3.22 | 39.42 | 2.63 | 32.16 | 66.0-67.0 | 0.15 | 122.23 | 0.12 | 99.73 |
| 20.0-21.0 | 3.24 | 42.65 | 2.64 | 34.80 | 67.0-68.0 | 0.12 | 122.35 | 0.10 | 99.83 |
| 21.0-22.0 | 3.24 | 45.90 | 2.65 | 37.45 | 68.0-69.0 | 0.08 | 122.44 | 0.07 | 99.90 |
| 22.0-23.0 | 3.25 | 49.14 | 2.65 | 40.10 | 69.0-70.0 | 0.06 | 122.49 | 0.05 | 99.95 |
| 23.0-24.0 | 3.26 | 52.40 | 2.66 | 42.75 | 70.0-71.0 | 0.03 | 122.53 | 0.03 | 99.97 |
| 24.0-25.0 | 3.27 | 55.67 | 2.67 | 45.42 | 71.0-72.0 | 0.02 | 122.55 | 0.01 | 99.99 |
| 25.0-26.0 | 3.27 | 58.94 | 2.67 | 48.09 | 72.0-73.0 | 0.01 | 122.55 | 0.01 | 99.99 |
| 26.0-27.0 | 3.27 | 62.21 | 2.67 | 50.76 | 73.0-74.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 27.0-28.0 | 3.26 | 65.47 | 2.66 | 53.42 | 74.0-75.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 28.0-29.0 | 3.23 | 68.71 | 2.64 | 56.06 | 75.0-76.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 29.0-30.0 | 3.20 | 71.91 | 2.61 | 58.67 | 76.0-77.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 30.0-31.0 | 3.15 | 75.06 | 2.57 | 61.24 | 77.0-78.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 31.0-32.0 | 3.10 | 78.16 | 2.53 | 63.77 | 78.0-79.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 32.0-33.0 | 3.04 | 81.20 | 2.48 | 66.25 | 79.0-80.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 33.0-34.0 | 2.98 | 84.18 | 2.43 | 68.68 | 80.0-81.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 34.0-35.0 | 2.91 | 87.09 | 2.37 | 71.06 | 81.0-82.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 35.0-36.0 | 2.83 | 89.92 | 2.31 | 73.37 | 82.0-83.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 36.0-37.0 | 2.74 | 92.66 | 2.23 | 75.60 | 83.0-84.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 37.0-38.0 | 2.64 | 95.29 | 2.15 | 77.75 | 84.0-85.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 38.0-39.0 | 2.52 | 97.82 | 2.06 | 79.81 | 85.0-86.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 39.0-40.0 | 2.36 | 100.18 | 1.92 | 81.74 | 86.0-87.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 40.0-41.0 | 2.12 | 102.30 | 1.73 | 83.47 | 87.0-88.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 41.0-42.0 | 1.91 | 104.21 | 1.56 | 85.03 | 88.0-89.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 42.0-43.0 | 1.74 | 105.95 | 1.42 | 86.45 | 89.0-90.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 43.0-44.0 | 1.57 | 107.52 | 1.28 | 87.73 | 90.0-91.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 44.0-45.0 | 1.38 | 108.90 | 1.13 | 88.86 | 91.0-92.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 45.0-46.0 | 1.23 | 110.14 | 1.01 | 89.86 | 92.0-93.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 46.0-47.0 | 1.13 | 111.26 | 0.92 | 90.78 | 93.0-94.0 | 0.00 | 122.56 | 0.00 | 100.00 |

Zonal Flux Tabulation - (Cont.)

| Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp | Zone(γ) | Zone Flux (lm) | Sums Flux (lm) | Zone%Lamp | Sums%Lamp |
|-------------|-------------------|-------------------|-----------|-----------|-------------|-------------------|-------------------|-----------|-----------|
| 94.0-95.0 | 0.00 | 122.56 | 0.00 | 100.00 | 141.0-142.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 95.0-96.0 | 0.00 | 122.56 | 0.00 | 100.00 | 142.0-143.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 96.0-97.0 | 0.00 | 122.56 | 0.00 | 100.00 | 143.0-144.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 97.0-98.0 | 0.00 | 122.56 | 0.00 | 100.00 | 144.0-145.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 98.0-99.0 | 0.00 | 122.56 | 0.00 | 100.00 | 145.0-146.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 99.0-100.0 | 0.00 | 122.56 | 0.00 | 100.00 | 146.0-147.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 100.0-101.0 | 0.00 | 122.56 | 0.00 | 100.00 | 147.0-148.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 101.0-102.0 | 0.00 | 122.56 | 0.00 | 100.00 | 148.0-149.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 102.0-103.0 | 0.00 | 122.56 | 0.00 | 100.00 | 149.0-150.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 103.0-104.0 | 0.00 | 122.56 | 0.00 | 100.00 | 150.0-151.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 104.0-105.0 | 0.00 | 122.56 | 0.00 | 100.00 | 151.0-152.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 105.0-106.0 | 0.00 | 122.56 | 0.00 | 100.00 | 152.0-153.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 106.0-107.0 | 0.00 | 122.56 | 0.00 | 100.00 | 153.0-154.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 107.0-108.0 | 0.00 | 122.56 | 0.00 | 100.00 | 154.0-155.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 108.0-109.0 | 0.00 | 122.56 | 0.00 | 100.00 | 155.0-156.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 109.0-110.0 | 0.00 | 122.56 | 0.00 | 100.00 | 156.0-157.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 110.0-111.0 | 0.00 | 122.56 | 0.00 | 100.00 | 157.0-158.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 111.0-112.0 | 0.00 | 122.56 | 0.00 | 100.00 | 158.0-159.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 112.0-113.0 | 0.00 | 122.56 | 0.00 | 100.00 | 159.0-160.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 113.0-114.0 | 0.00 | 122.56 | 0.00 | 100.00 | 160.0-161.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 114.0-115.0 | 0.00 | 122.56 | 0.00 | 100.00 | 161.0-162.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 115.0-116.0 | 0.00 | 122.56 | 0.00 | 100.00 | 162.0-163.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 116.0-117.0 | 0.00 | 122.56 | 0.00 | 100.00 | 163.0-164.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 117.0-118.0 | 0.00 | 122.56 | 0.00 | 100.00 | 164.0-165.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 118.0-119.0 | 0.00 | 122.56 | 0.00 | 100.00 | 165.0-166.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 119.0-120.0 | 0.00 | 122.56 | 0.00 | 100.00 | 166.0-167.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 120.0-121.0 | 0.00 | 122.56 | 0.00 | 100.00 | 167.0-168.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 121.0-122.0 | 0.00 | 122.56 | 0.00 | 100.00 | 168.0-169.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 122.0-123.0 | 0.00 | 122.56 | 0.00 | 100.00 | 169.0-170.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 123.0-124.0 | 0.00 | 122.56 | 0.00 | 100.00 | 170.0-171.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 124.0-125.0 | 0.00 | 122.56 | 0.00 | 100.00 | 171.0-172.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 125.0-126.0 | 0.00 | 122.56 | 0.00 | 100.00 | 172.0-173.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 126.0-127.0 | 0.00 | 122.56 | 0.00 | 100.00 | 173.0-174.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 127.0-128.0 | 0.00 | 122.56 | 0.00 | 100.00 | 174.0-175.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 128.0-129.0 | 0.00 | 122.56 | 0.00 | 100.00 | 175.0-176.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 129.0-130.0 | 0.00 | 122.56 | 0.00 | 100.00 | 176.0-177.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 130.0-131.0 | 0.00 | 122.56 | 0.00 | 100.00 | 177.0-178.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 131.0-132.0 | 0.00 | 122.56 | 0.00 | 100.00 | 178.0-179.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 132.0-133.0 | 0.00 | 122.56 | 0.00 | 100.00 | 179.0-180.0 | 0.00 | 122.56 | 0.00 | 100.00 |
| 133.0-134.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 134.0-135.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 135.0-136.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 136.0-137.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 137.0-138.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 138.0-139.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 139.0-140.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |
| 140.0-141.0 | 0.00 | 122.56 | 0.00 | 100.00 | | | | | |

Rectangle ISO Lighting Intensity Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | 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: 2020/12/23 |

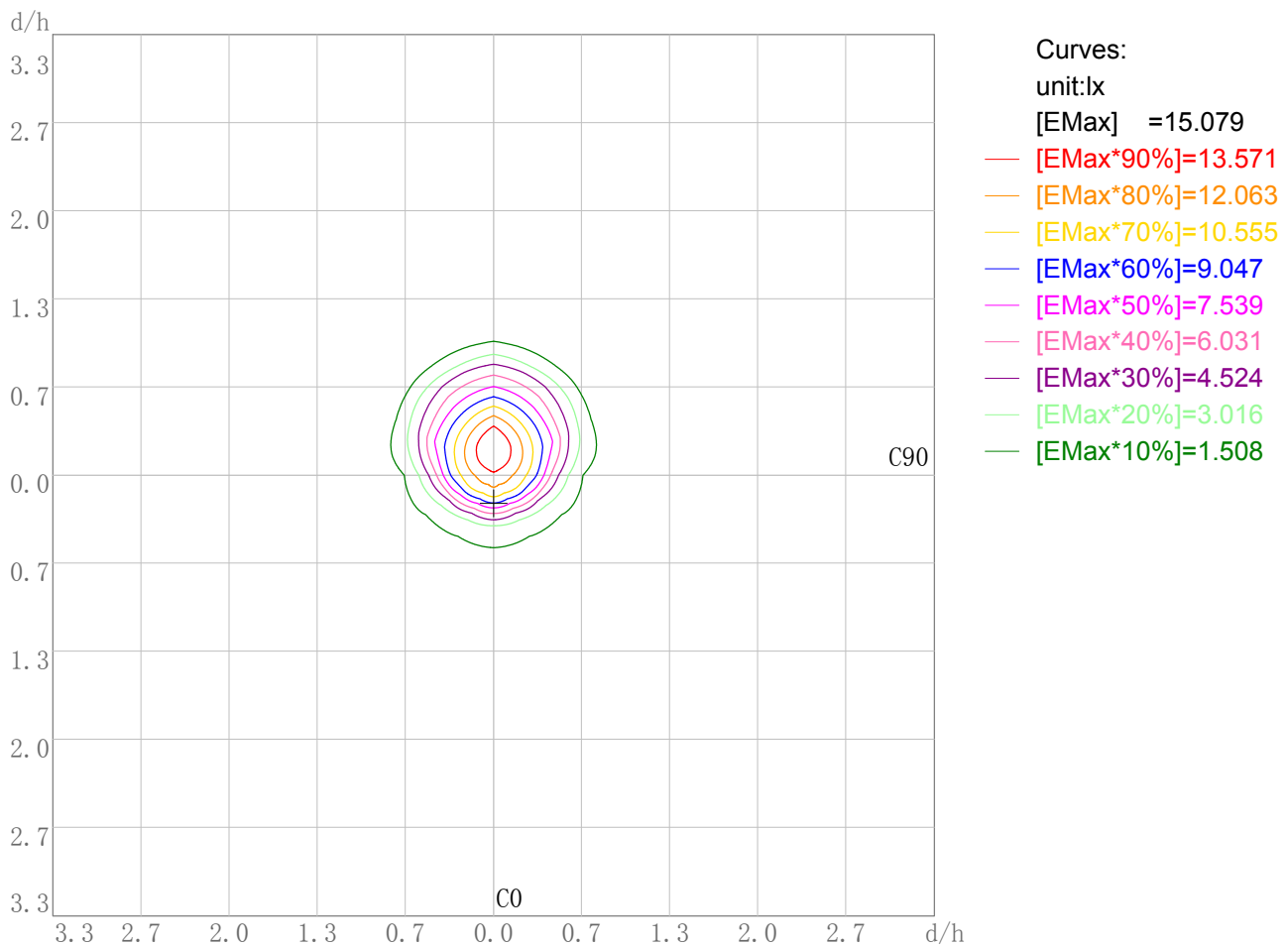


Photometric Filename:DL43-05-PR-03 5000K RA90.IES

Plane ISO-Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | 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: 2020/12/23 |

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 15.08

Working Plane Maximum Illuminance Position(d/h):H0.0 V0.2

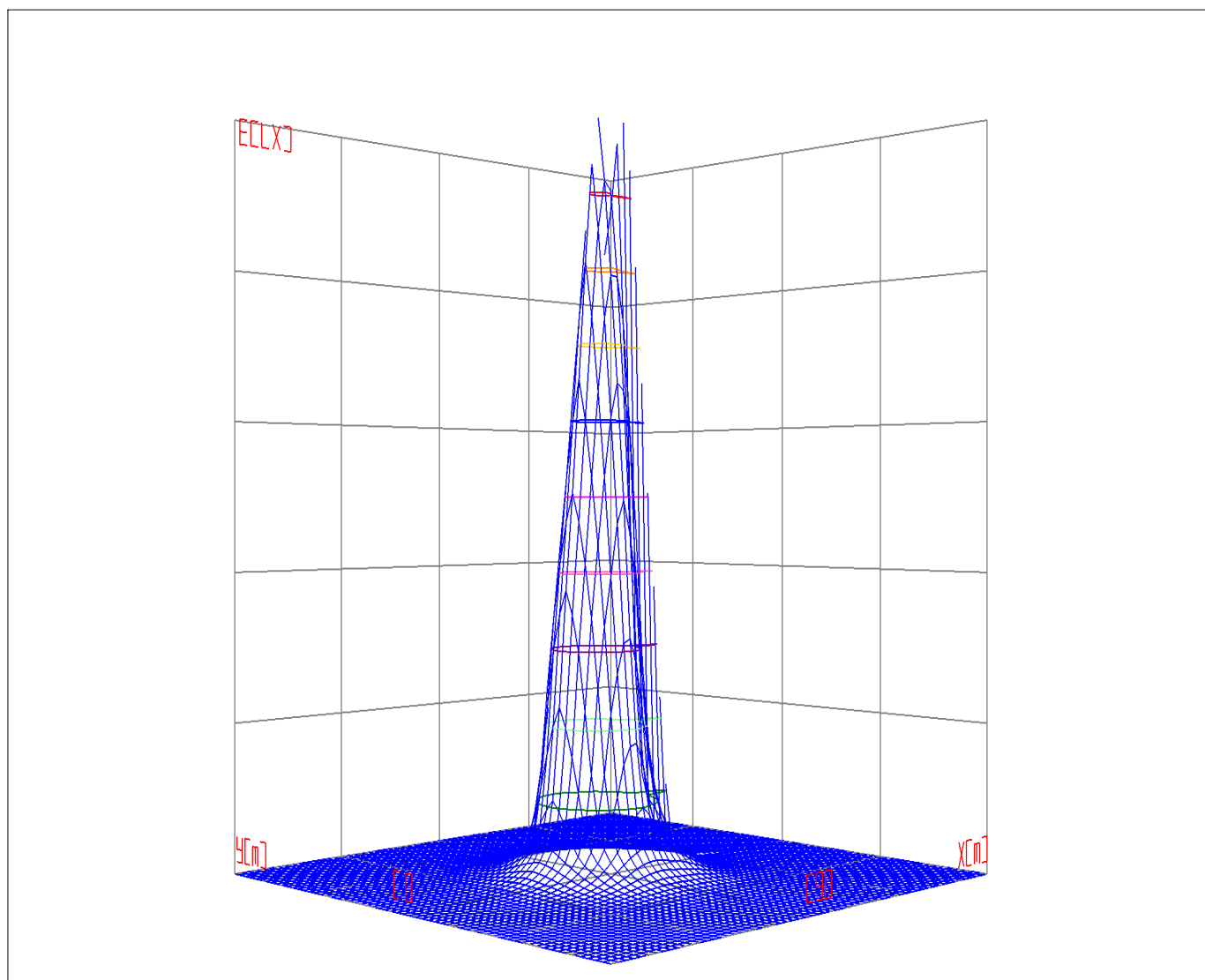
IES Indoor Report

Photometric Filename:DL43-05-PR-03 5000K RA90.IES

3D Plane ISO Illuminance Diagram

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | 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: 2020/12/23 |

3D Plane Illuminance Model

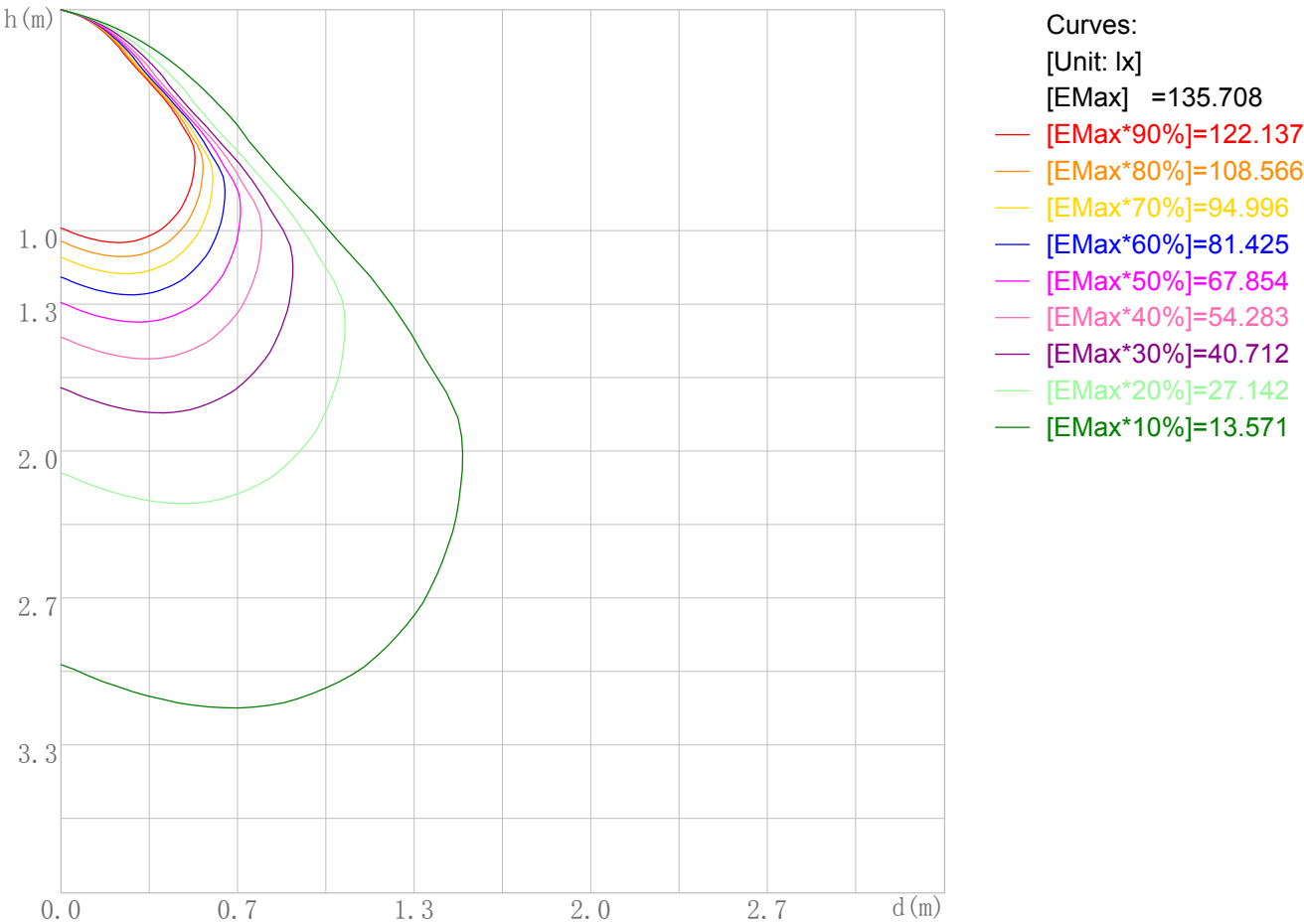


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

| | | |
|--|-----------------------|----------------------------|
| Lum. Name:DL43-05-PR-03 5000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Deparment |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2020/12/23 |

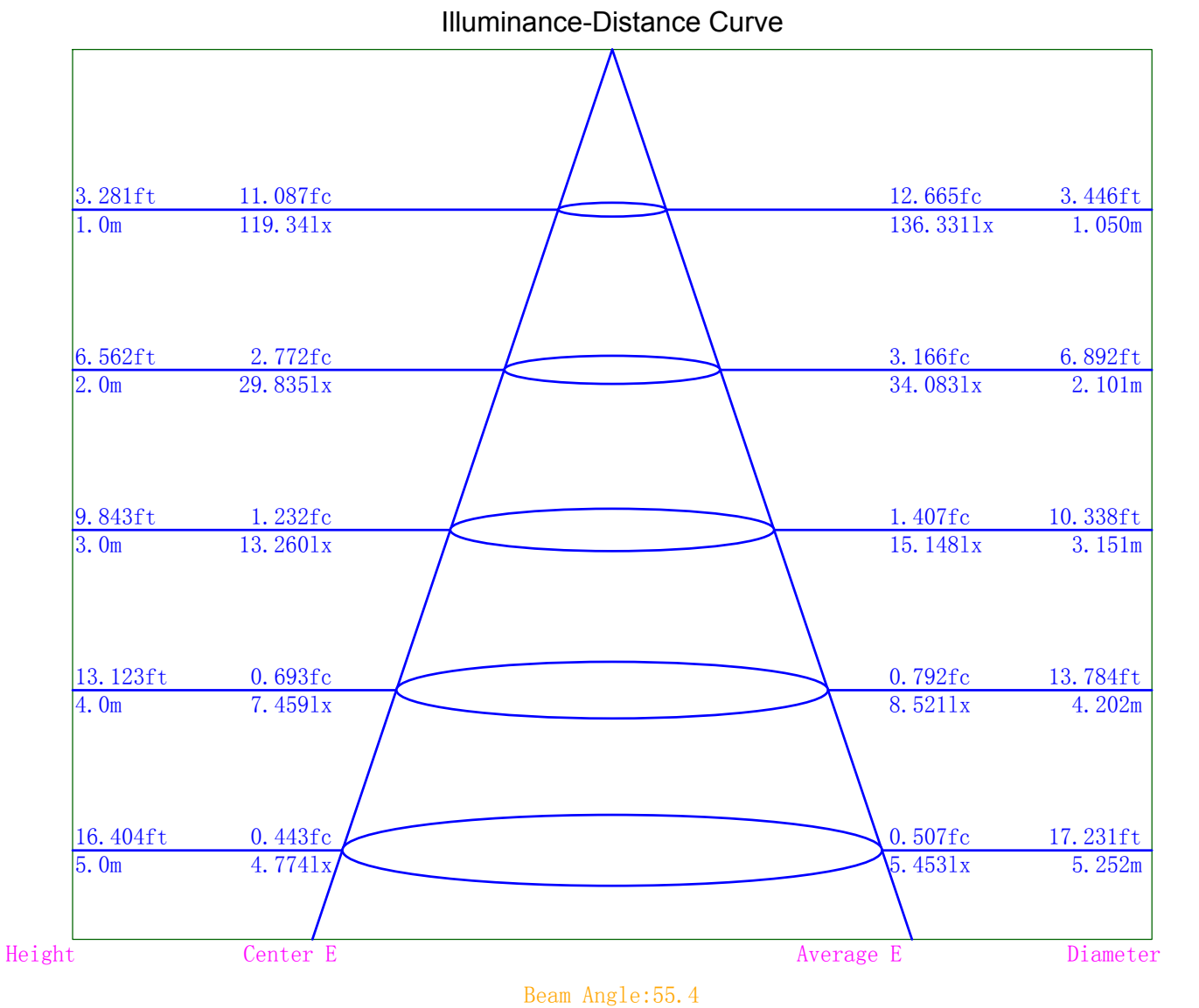
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:135.71lx,12.0deg
Plane Maximum Lighting Intensity and @Angle:148.922cd,0deg

Illuminance-Distance Diagram

| | | |
|--|-----------------------|----------------------------|
| Lum. Name:DL43-05-PR-03 5000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Deparment |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2020/12/23 |



Indoor Luminance Limiting Curves

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | 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: 2020/12/23 |

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminance Limiting Curve



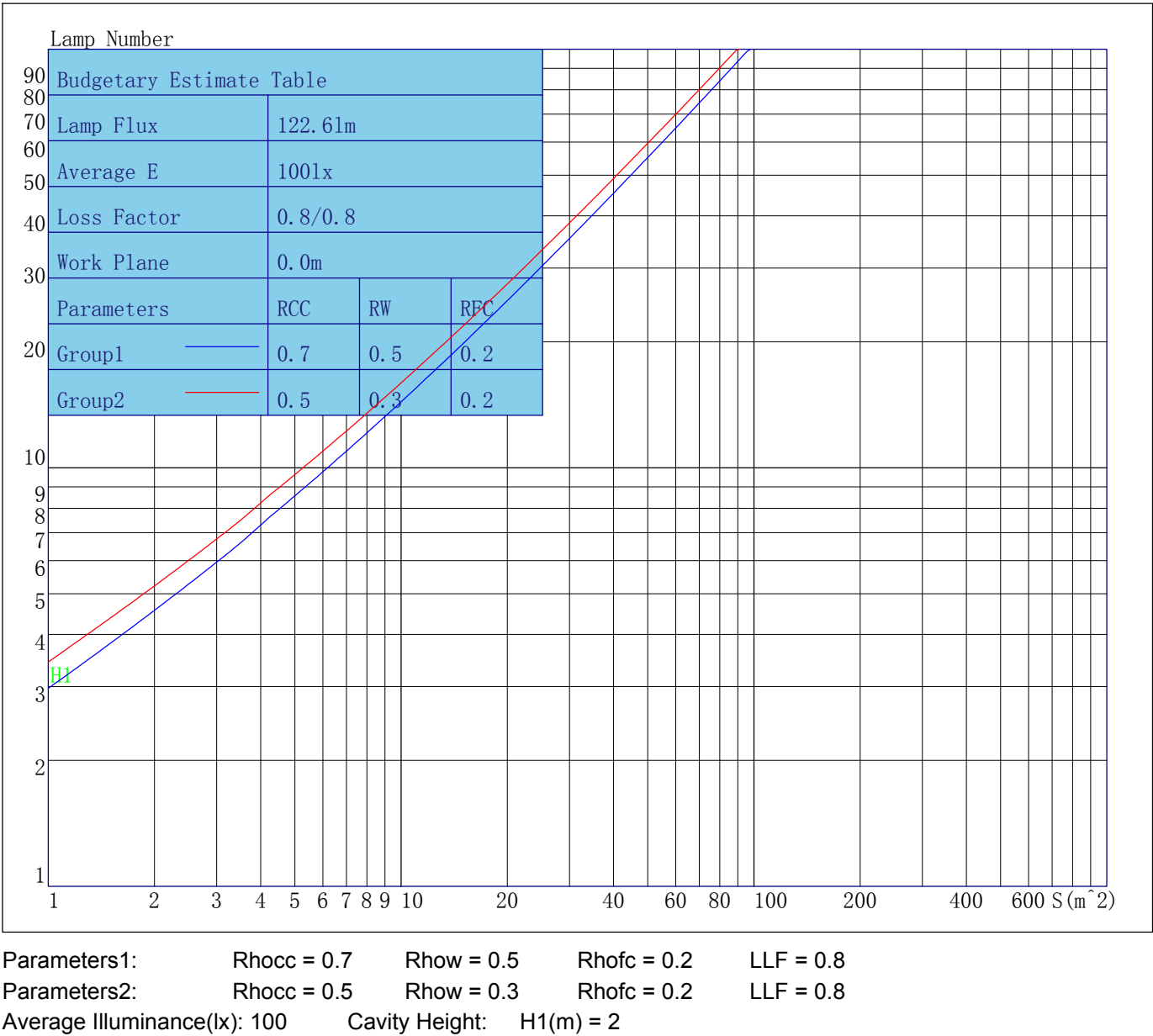
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

| | | |
|---|-----------------------|------------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | 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: 2020/12/23 |



Indoor Coefficient of Utilization Table

| | | |
|---|-----------------------|-----------------------------|
| Lum. Name: DL43-05-PR-03 5000K RA90 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: LED | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date: 2020/12/23 |

| 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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 |
| 4 | 95 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 72 | 71 |
| 5 | 89 | 80 | 73 | 69 | 87 | 79 | 73 | 68 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 66 | 65 |
| 6 | 84 | 74 | 68 | 63 | 82 | 73 | 67 | 63 | 72 | 66 | 62 | 70 | 66 | 62 | 69 | 65 | 61 | 60 |
| 7 | 79 | 69 | 63 | 58 | 78 | 69 | 62 | 58 | 67 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 |
| 9 | 71 | 61 | 54 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 57 | 53 | 49 | 48 |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 45 |

Unified Glare Rating Table

| | | |
|--|-----------------------|----------------------------|
| Lum. Name:DL43-05-PR-03 5000K RA90 | Lum. Catelog: | Test ID:01 |
| Lamp Name: | Lamp Catelog:LED | Test Lab:Quality Deparment |
| Manufacture:Shenzhen Norming Lighting Co.Ltd | Test Machine:GON-2000 | Test Date:2020/12/23 |

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 | -8.3 | -7.2 | -8.0 | -6.9 | -6.6 | -8.3 | -7.2 | -8.0 | -6.9 | -6.6 | |
| | Y=3H | -8.5 | -7.5 | -8.1 | -7.2 | -6.8 | -8.5 | -7.5 | -8.1 | -7.2 | -6.8 |
| | Y=4H | -8.6 | -7.7 | -8.2 | -7.3 | -7.0 | -8.6 | -7.7 | -8.2 | -7.3 | -7.0 |
| | Y=6H | -8.7 | -7.9 | -8.3 | -7.5 | -7.1 | -8.7 | -7.9 | -8.3 | -7.5 | -7.1 |
| | Y=8H | -8.8 | -8.0 | -8.3 | -7.6 | -7.2 | -8.8 | -8.0 | -8.3 | -7.6 | -7.2 |
| | Y=12H | -8.8 | -8.1 | -8.4 | -7.7 | -7.2 | -8.8 | -8.1 | -8.4 | -7.7 | -7.2 |
| X=4H Y=2H | -8.6 | -7.7 | -8.2 | -7.3 | -7.0 | -8.6 | -7.7 | -8.2 | -7.3 | -7.0 | |
| | Y=3H | -8.8 | -8.0 | -8.4 | -7.6 | -7.2 | -8.8 | -8.0 | -8.4 | -7.6 | -7.2 |
| | Y=4H | -8.9 | -8.2 | -8.5 | -7.8 | -7.4 | -8.9 | -8.2 | -8.5 | -7.8 | -7.4 |
| | Y=6H | -9.0 | -8.4 | -8.5 | -8.0 | -7.5 | -9.0 | -8.4 | -8.5 | -8.0 | -7.5 |
| | Y=8H | -9.1 | -8.5 | -8.6 | -8.1 | -7.6 | -9.1 | -8.5 | -8.6 | -8.1 | -7.6 |
| | Y=12H | -9.1 | -8.7 | -8.6 | -8.2 | -7.7 | -9.1 | -8.7 | -8.6 | -8.2 | -7.7 |
| X=8H Y=4H | -9.1 | -8.5 | -8.6 | -8.1 | -7.6 | -9.1 | -8.5 | -8.6 | -8.1 | -7.6 | |
| | Y=6H | -9.2 | -8.8 | -8.7 | -8.3 | -7.7 | -9.2 | -8.8 | -8.7 | -8.3 | -7.7 |
| | Y=8H | -9.2 | -8.9 | -8.7 | -8.4 | -7.9 | -9.2 | -8.9 | -8.7 | -8.4 | -7.9 |
| | Y=12H | -9.3 | -9.0 | -8.8 | -8.5 | -7.9 | -9.3 | -9.0 | -8.8 | -8.5 | -7.9 |
| X=12H Y=4H | -9.1 | -8.7 | -8.6 | -8.2 | -7.7 | -9.1 | -8.7 | -8.6 | -8.2 | -7.7 | |
| | Y=6H | -9.2 | -8.9 | -8.7 | -8.4 | -7.9 | -9.2 | -8.9 | -8.7 | -8.4 | -7.9 |
| | Y=8H | -9.3 | -9.0 | -8.8 | -8.5 | -7.9 | -9.3 | -9.0 | -8.8 | -8.5 | -7.9 |
| Variations with the objerver position at spacings | | | | | | | | | | | |
| S=1.0H | 0.0/0.0 | | | | | 0.0/0.0 | | | | | |
| S=1.5H | 0.0/0.0 | | | | | 0.0/0.0 | | | | | |
| S=2.0H | 0.0/0.0 | | | | | 0.0/0.0 | | | | | |
| Reduced UGR Table: | | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | | |
| Correction Value | 0.0 | | | | | 0.0 | | | | | |

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

IES Indoor Report

Photometric Filename:DL43-05-PR-03 5000K RA90.IES

Candela Tabulation

| V/H | C0. 0 | C30. 0 | C60. 0 | C90. 0 | C120. 0 | C150. 0 | C180. 0 |
|---------|---------|---------|---------|---------|---------|---------|---------|
| γ 0. 0 | 119. 34 | 119. 34 | 119. 34 | 119. 34 | 119. 34 | 119. 34 | 119. 34 |
| γ 1. 0 | 121. 30 | 120. 64 | 117. 65 | 116. 80 | 118. 44 | 118. 48 | 121. 28 |
| γ 2. 0 | 123. 82 | 122. 65 | 118. 66 | 116. 46 | 116. 99 | 115. 82 | 118. 65 |
| γ 3. 0 | 126. 23 | 124. 31 | 119. 67 | 116. 16 | 115. 47 | 113. 44 | 115. 88 |
| γ 4. 0 | 128. 46 | 125. 93 | 120. 46 | 115. 52 | 113. 91 | 110. 93 | 113. 16 |
| γ 5. 0 | 130. 90 | 127. 49 | 120. 87 | 114. 68 | 112. 15 | 108. 54 | 110. 47 |
| γ 6. 0 | 133. 24 | 128. 92 | 121. 15 | 113. 76 | 110. 21 | 106. 23 | 108. 02 |
| γ 7. 0 | 135. 37 | 130. 21 | 121. 55 | 112. 93 | 108. 18 | 103. 61 | 105. 48 |
| γ 8. 0 | 137. 71 | 131. 35 | 121. 65 | 111. 97 | 106. 34 | 100. 75 | 102. 63 |
| γ 9. 0 | 139. 69 | 132. 36 | 121. 65 | 110. 92 | 104. 48 | 97. 90 | 99. 58 |
| γ 10. 0 | 141. 65 | 133. 14 | 121. 25 | 109. 51 | 102. 55 | 94. 78 | 96. 35 |
| γ 11. 0 | 143. 36 | 133. 72 | 120. 74 | 108. 03 | 100. 43 | 90. 21 | 91. 63 |
| γ 12. 0 | 145. 01 | 133. 98 | 120. 09 | 106. 61 | 97. 97 | 84. 56 | 86. 11 |
| γ 13. 0 | 146. 33 | 134. 18 | 119. 52 | 105. 16 | 94. 43 | 78. 26 | 80. 63 |
| γ 14. 0 | 147. 42 | 134. 34 | 118. 71 | 103. 55 | 89. 20 | 72. 67 | 73. 18 |
| γ 15. 0 | 148. 31 | 134. 19 | 117. 56 | 101. 61 | 83. 07 | 67. 64 | 66. 13 |
| γ 16. 0 | 148. 72 | 133. 61 | 116. 47 | 99. 54 | 77. 84 | 61. 98 | 61. 67 |
| γ 17. 0 | 148. 91 | 132. 93 | 115. 02 | 97. 39 | 73. 95 | 56. 34 | 56. 96 |
| γ 18. 0 | 148. 92 | 131. 82 | 113. 52 | 94. 58 | 70. 13 | 49. 74 | 51. 31 |
| γ 19. 0 | 148. 78 | 130. 82 | 112. 17 | 90. 99 | 64. 90 | 43. 09 | 45. 70 |
| γ 20. 0 | 148. 46 | 129. 39 | 110. 78 | 86. 88 | 57. 84 | 38. 56 | 38. 44 |
| γ 21. 0 | 147. 83 | 127. 85 | 109. 12 | 82. 23 | 50. 27 | 34. 81 | 32. 49 |
| γ 22. 0 | 146. 50 | 126. 33 | 107. 35 | 77. 11 | 44. 55 | 30. 32 | 29. 31 |
| γ 23. 0 | 145. 17 | 124. 59 | 105. 29 | 71. 65 | 40. 80 | 26. 74 | 26. 84 |
| γ 24. 0 | 143. 62 | 122. 76 | 103. 36 | 66. 41 | 37. 73 | 24. 35 | 24. 89 |
| γ 25. 0 | 141. 88 | 120. 79 | 101. 25 | 61. 49 | 34. 70 | 22. 53 | 23. 29 |
| γ 26. 0 | 140. 15 | 118. 77 | 99. 47 | 56. 88 | 30. 99 | 21. 26 | 22. 33 |
| γ 27. 0 | 138. 09 | 116. 65 | 97. 11 | 52. 40 | 27. 41 | 20. 56 | 21. 58 |
| γ 28. 0 | 135. 44 | 114. 31 | 93. 92 | 47. 70 | 24. 87 | 19. 86 | 20. 80 |
| γ 29. 0 | 132. 78 | 112. 00 | 89. 58 | 43. 05 | 22. 94 | 19. 10 | 19. 85 |
| γ 30. 0 | 130. 05 | 109. 59 | 84. 66 | 38. 87 | 21. 90 | 18. 14 | 18. 82 |
| γ 31. 0 | 127. 17 | 106. 75 | 79. 44 | 34. 96 | 21. 15 | 17. 20 | 17. 96 |
| γ 32. 0 | 124. 44 | 104. 06 | 74. 20 | 30. 95 | 20. 41 | 16. 42 | 17. 20 |
| γ 33. 0 | 121. 31 | 101. 30 | 70. 05 | 27. 20 | 19. 61 | 15. 69 | 16. 49 |
| γ 34. 0 | 117. 94 | 98. 04 | 65. 49 | 23. 95 | 18. 66 | 15. 00 | 15. 82 |
| γ 35. 0 | 114. 55 | 95. 14 | 60. 18 | 21. 69 | 17. 63 | 14. 35 | 15. 16 |
| γ 36. 0 | 111. 32 | 91. 73 | 54. 46 | 20. 04 | 16. 77 | 13. 73 | 14. 52 |
| γ 37. 0 | 107. 74 | 86. 38 | 48. 86 | 19. 05 | 16. 01 | 13. 12 | 13. 93 |
| γ 38. 0 | 103. 84 | 81. 11 | 43. 84 | 18. 33 | 15. 27 | 12. 55 | 13. 36 |
| γ 39. 0 | 98. 91 | 75. 42 | 38. 46 | 17. 61 | 14. 57 | 12. 00 | 12. 81 |
| γ 40. 0 | 90. 70 | 65. 62 | 32. 41 | 16. 82 | 13. 92 | 11. 46 | 12. 27 |
| γ 41. 0 | 79. 04 | 53. 29 | 27. 50 | 15. 89 | 13. 26 | 10. 94 | 11. 74 |
| γ 42. 0 | 71. 25 | 46. 05 | 23. 75 | 14. 79 | 12. 59 | 10. 39 | 11. 22 |
| γ 43. 0 | 62. 48 | 40. 26 | 21. 28 | 13. 80 | 11. 96 | 9. 84 | 10. 69 |
| γ 44. 0 | 53. 25 | 31. 32 | 19. 29 | 12. 93 | 11. 33 | 9. 33 | 10. 18 |
| γ 45. 0 | 41. 67 | 24. 43 | 17. 92 | 12. 11 | 10. 73 | 8. 82 | 9. 70 |
| γ 46. 0 | 34. 57 | 20. 94 | 16. 99 | 11. 34 | 10. 12 | 8. 32 | 9. 21 |

Photometric Filename:DL43-05-PR-03 5000K RA90.IES

Candela Tabulation - (Cont.)

[illegible]

Photometric Filename:DL43-05-PR-03 5000K RA90.IES

Candela Tabulation - (Cont.)

[illegible]