

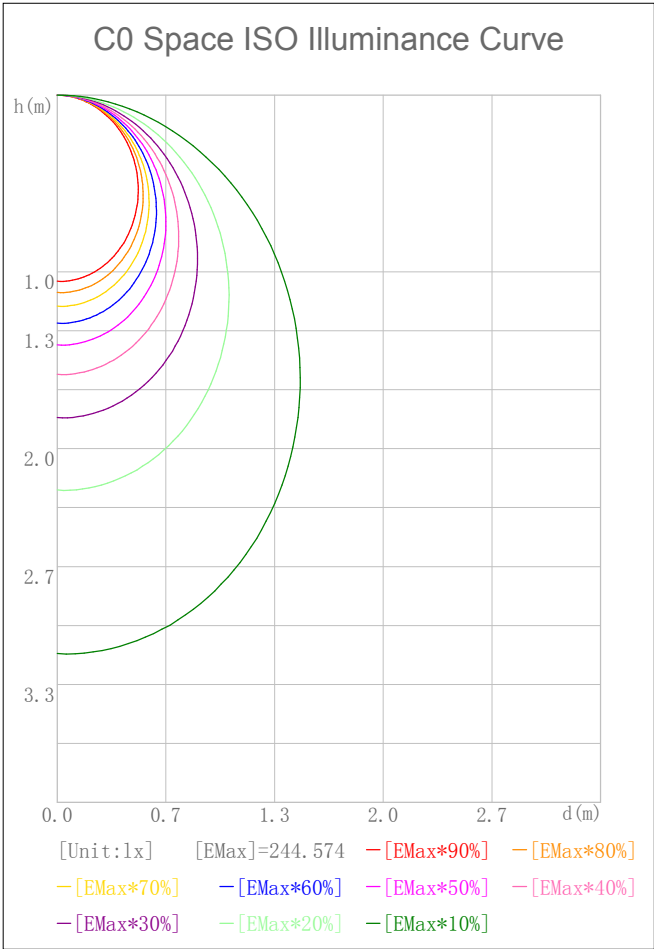
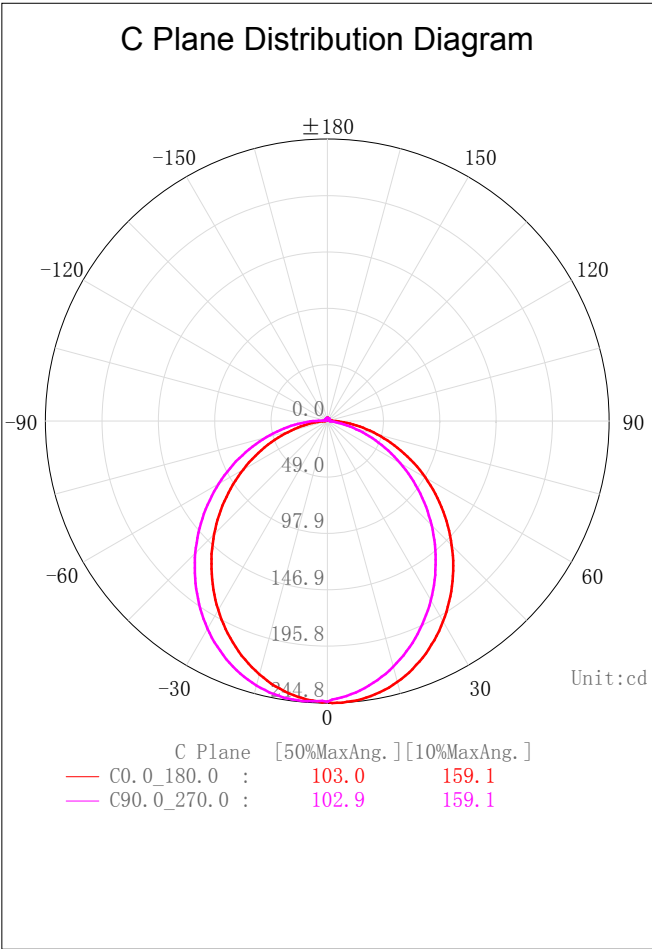
Indoor Luminaire Photometric Data

Description Information

| | | | |
|--|-------------------------|--------------------|-----------------------|
| Luminary Name:DL44-10-XX-09 2700K RA80 | | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | | Lamp Catalog: | Test Date: 2021/08/24 |
| Manufacture: Shenzhen Norming lightin | | Shld.Ang(°): | Test Machine:GON-2000 |
| Test Lab: Quality Department | | Frequency(Hz): | Lamp CCT(K): Ra: |
| Lum.Size(W*L*H):0.075m*0.075m*0.000m | | Lum.Area(m2):0.004 | Lum.W(kg): 0.000 |
| Test System: C, γ | Test Step: C=90.0 γ=1.0 | Temp.(°C): 25 | Humidity(%): 50.0 |

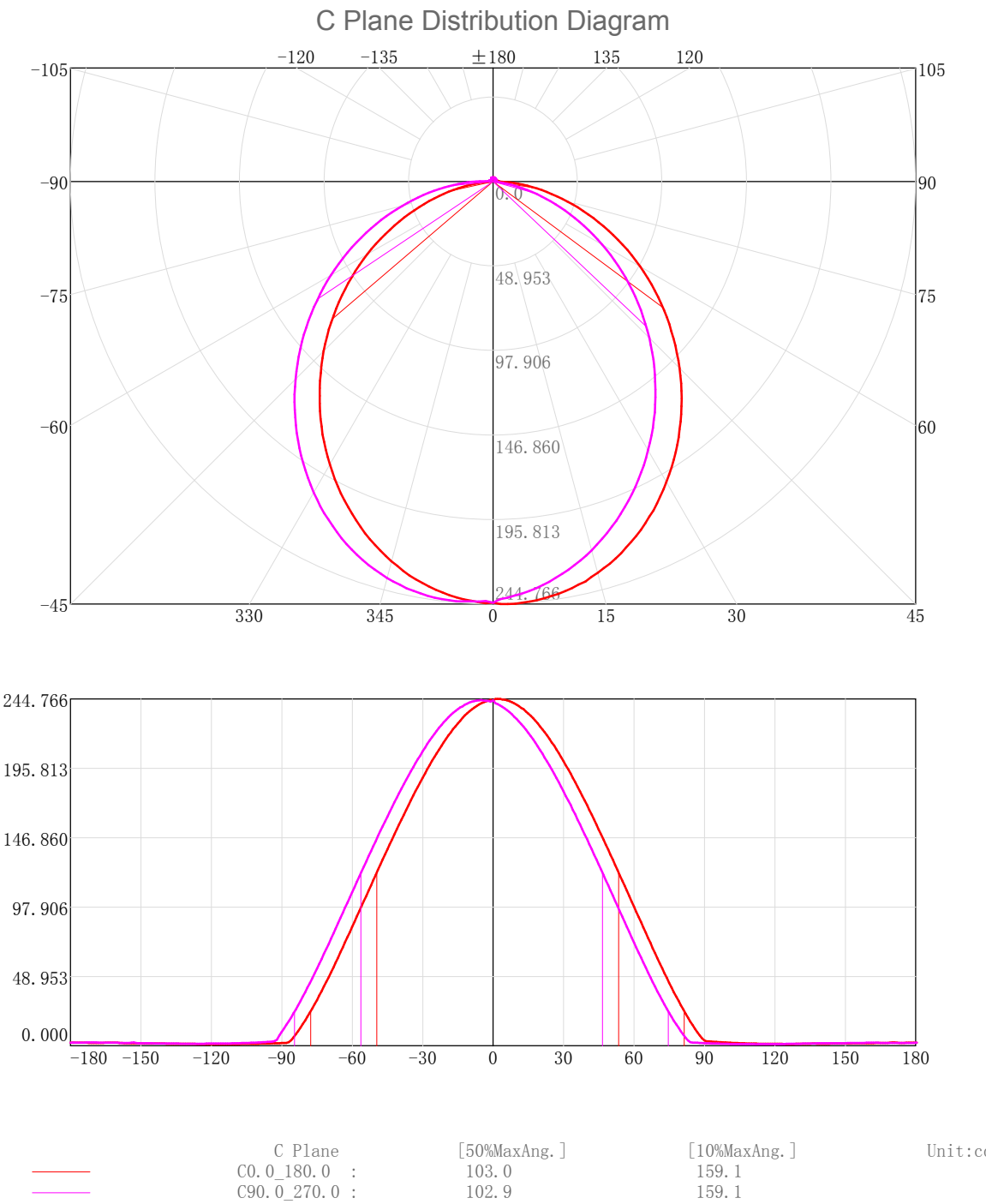
Character Parameter

| Lamp Speciality Parameter | | Luminaire Speciality Parameter | |
|--|-------------------------------|---------------------------------------|--|
| Rated Flux(lm): 643.680 | Luminary Flux(lm): 643.677 | Field Angle(10%Imax): 159.1(°) | |
| Rated Power(W): | Luminary Efficiency: 100.00% | Down Lumens&Percent: 631.987lm 98.18% | |
| Rated Voltage(V): | Luminary EER(lm/W): 72.462 | Up Lumens&Percent: 11.690lm 1.82% | |
| Tested Power(W): 8.883 | Max.Candela(cd): 244.766 | S/MH: C0_a180=1.194 C90_270=1.188 | |
| Lamps' Inside: 1 | Max Cand@Ang.(°): C=0.0 γ=3.0 | CIE Type: Semi-Direct | |
| Tested Electrics(V, A, pf):240.1, 0.040, 0.912 | | ErP Φuse(120°): 494.145lm | |
| Lamp Size(W*L*H):0.075m*0.075m*0.000m | | IRF(%): 116.472 | |
| | | Left=-49.5°, Right=53.5° | |



2D Plane Light Intensity Distribution Curve

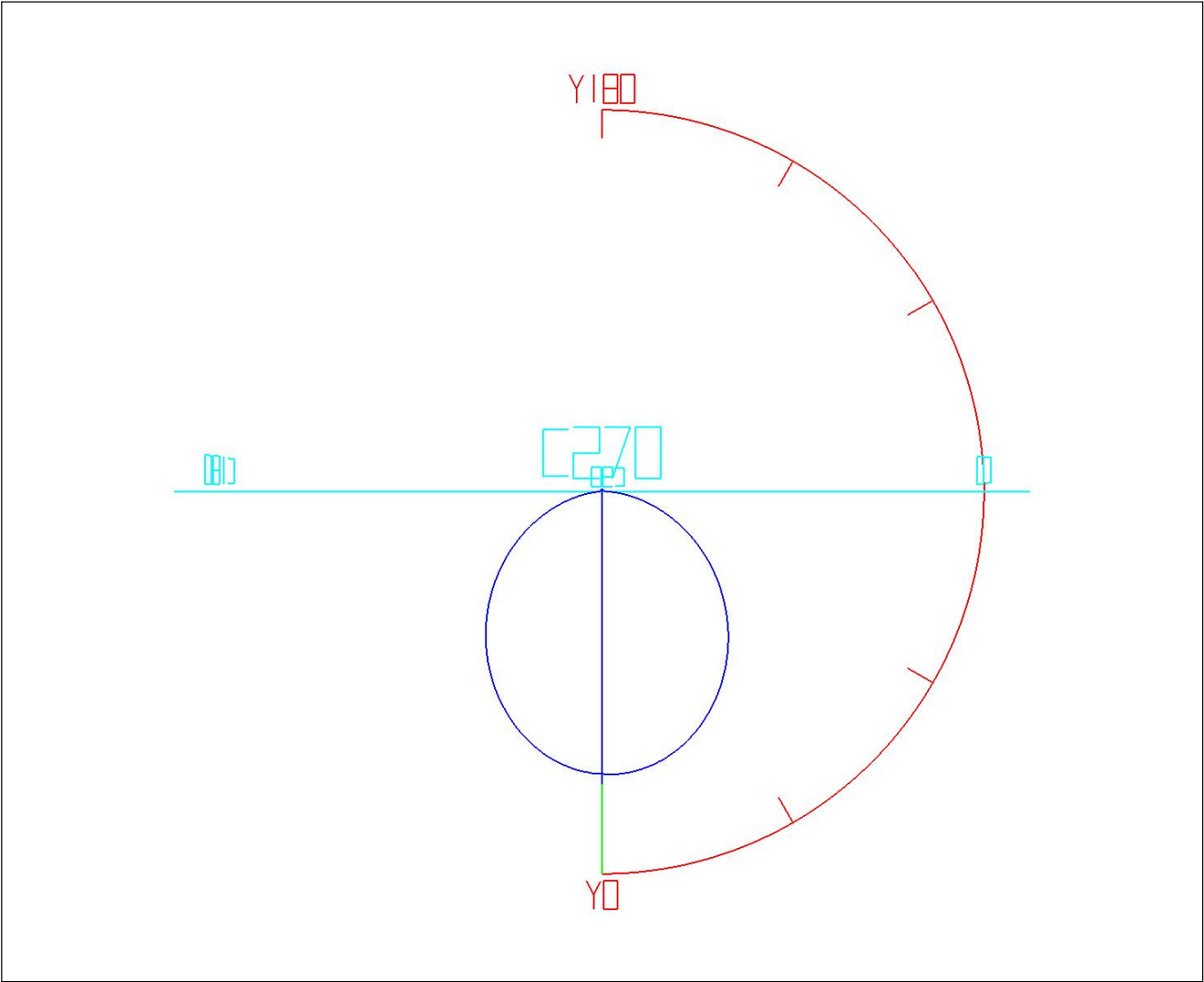
| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |



3D Light Intensity Distribution Modal

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

Spin:0

IES Indoor Report

Photometric Filename:DL44-10-XX-09 2700K RA80.IES

| 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 | 0.23 | 0.23 | 0.04 | 0.04 | 47.0-48.0 | 11.03 | 385.94 | 1.71 | 59.96 |
| 1.0-2.0 | 0.70 | 0.93 | 0.11 | 0.14 | 48.0-49.0 | 10.91 | 396.85 | 1.69 | 61.65 |
| 2.0-3.0 | 1.16 | 2.09 | 0.18 | 0.33 | 49.0-50.0 | 10.77 | 407.62 | 1.67 | 63.33 |
| 3.0-4.0 | 1.62 | 3.72 | 0.25 | 0.58 | 50.0-51.0 | 10.63 | 418.25 | 1.65 | 64.98 |
| 4.0-5.0 | 2.08 | 5.80 | 0.32 | 0.90 | 51.0-52.0 | 10.47 | 428.72 | 1.63 | 66.60 |
| 5.0-6.0 | 2.54 | 8.34 | 0.39 | 1.30 | 52.0-53.0 | 10.30 | 439.01 | 1.60 | 68.20 |
| 6.0-7.0 | 2.99 | 11.33 | 0.46 | 1.76 | 53.0-54.0 | 10.11 | 449.12 | 1.57 | 69.77 |
| 7.0-8.0 | 3.44 | 14.77 | 0.53 | 2.29 | 54.0-55.0 | 9.91 | 459.04 | 1.54 | 71.31 |
| 8.0-9.0 | 3.87 | 18.64 | 0.60 | 2.90 | 55.0-56.0 | 9.70 | 468.74 | 1.51 | 72.82 |
| 9.0-10.0 | 4.31 | 22.95 | 0.67 | 3.57 | 56.0-57.0 | 9.48 | 478.23 | 1.47 | 74.30 |
| 10.0-11.0 | 4.73 | 27.68 | 0.74 | 4.30 | 57.0-58.0 | 9.26 | 487.48 | 1.44 | 75.73 |
| 11.0-12.0 | 5.15 | 32.83 | 0.80 | 5.10 | 58.0-59.0 | 9.01 | 496.49 | 1.40 | 77.13 |
| 12.0-13.0 | 5.56 | 38.39 | 0.86 | 5.96 | 59.0-60.0 | 8.76 | 505.26 | 1.36 | 78.50 |
| 13.0-14.0 | 5.95 | 44.34 | 0.93 | 6.89 | 60.0-61.0 | 8.51 | 513.76 | 1.32 | 79.82 |
| 14.0-15.0 | 6.34 | 50.68 | 0.99 | 7.87 | 61.0-62.0 | 8.24 | 522.00 | 1.28 | 81.10 |
| 15.0-16.0 | 6.72 | 57.40 | 1.04 | 8.92 | 62.0-63.0 | 7.96 | 529.96 | 1.24 | 82.33 |
| 16.0-17.0 | 7.08 | 64.48 | 1.10 | 10.02 | 63.0-64.0 | 7.67 | 537.64 | 1.19 | 83.53 |
| 17.0-18.0 | 7.44 | 71.92 | 1.16 | 11.17 | 64.0-65.0 | 7.38 | 545.02 | 1.15 | 84.67 |
| 18.0-19.0 | 7.78 | 79.69 | 1.21 | 12.38 | 65.0-66.0 | 7.09 | 552.11 | 1.10 | 85.77 |
| 19.0-20.0 | 8.10 | 87.80 | 1.26 | 13.64 | 66.0-67.0 | 6.79 | 558.89 | 1.05 | 86.83 |
| 20.0-21.0 | 8.42 | 96.21 | 1.31 | 14.95 | 67.0-68.0 | 6.48 | 565.37 | 1.01 | 87.83 |
| 21.0-22.0 | 8.72 | 104.93 | 1.35 | 16.30 | 68.0-69.0 | 6.17 | 571.54 | 0.96 | 88.79 |
| 22.0-23.0 | 9.00 | 113.93 | 1.40 | 17.70 | 69.0-70.0 | 5.85 | 577.39 | 0.91 | 89.70 |
| 23.0-24.0 | 9.27 | 123.20 | 1.44 | 19.14 | 70.0-71.0 | 5.53 | 582.92 | 0.86 | 90.56 |
| 24.0-25.0 | 9.53 | 132.73 | 1.48 | 20.62 | 71.0-72.0 | 5.21 | 588.13 | 0.81 | 91.37 |
| 25.0-26.0 | 9.77 | 142.50 | 1.52 | 22.14 | 72.0-73.0 | 4.89 | 593.03 | 0.76 | 92.13 |
| 26.0-27.0 | 9.99 | 152.49 | 1.55 | 23.69 | 73.0-74.0 | 4.58 | 597.60 | 0.71 | 92.84 |
| 27.0-28.0 | 10.21 | 162.70 | 1.59 | 25.28 | 74.0-75.0 | 4.26 | 601.86 | 0.66 | 93.50 |
| 28.0-29.0 | 10.40 | 173.09 | 1.62 | 26.89 | 75.0-76.0 | 3.94 | 605.80 | 0.61 | 94.12 |
| 29.0-30.0 | 10.57 | 183.67 | 1.64 | 28.53 | 76.0-77.0 | 3.63 | 609.43 | 0.56 | 94.68 |
| 30.0-31.0 | 10.73 | 194.40 | 1.67 | 30.20 | 77.0-78.0 | 3.32 | 612.75 | 0.52 | 95.20 |
| 31.0-32.0 | 10.88 | 205.28 | 1.69 | 31.89 | 78.0-79.0 | 3.01 | 615.77 | 0.47 | 95.66 |
| 32.0-33.0 | 11.01 | 216.29 | 1.71 | 33.60 | 79.0-80.0 | 2.71 | 618.48 | 0.42 | 96.09 |
| 33.0-34.0 | 11.12 | 227.41 | 1.73 | 35.33 | 80.0-81.0 | 2.42 | 620.90 | 0.38 | 96.46 |
| 34.0-35.0 | 11.22 | 238.63 | 1.74 | 37.07 | 81.0-82.0 | 2.13 | 623.03 | 0.33 | 96.79 |
| 35.0-36.0 | 11.30 | 249.93 | 1.76 | 38.83 | 82.0-83.0 | 1.85 | 624.88 | 0.29 | 97.08 |
| 36.0-37.0 | 11.36 | 261.29 | 1.76 | 40.59 | 83.0-84.0 | 1.59 | 626.48 | 0.25 | 97.33 |
| 37.0-38.0 | 11.41 | 272.70 | 1.77 | 42.37 | 84.0-85.0 | 1.36 | 627.84 | 0.21 | 97.54 |
| 38.0-39.0 | 11.44 | 284.14 | 1.78 | 44.14 | 85.0-86.0 | 1.16 | 629.00 | 0.18 | 97.72 |
| 39.0-40.0 | 11.45 | 295.59 | 1.78 | 45.92 | 86.0-87.0 | 0.97 | 629.97 | 0.15 | 97.87 |
| 40.0-41.0 | 11.46 | 307.05 | 1.78 | 47.70 | 87.0-88.0 | 0.80 | 630.78 | 0.13 | 98.00 |
| 41.0-42.0 | 11.44 | 318.49 | 1.78 | 49.48 | 88.0-89.0 | 0.67 | 631.44 | 0.10 | 98.10 |
| 42.0-43.0 | 11.41 | 329.90 | 1.77 | 51.25 | 89.0-90.0 | 0.54 | 631.99 | 0.08 | 98.18 |
| 43.0-44.0 | 11.36 | 341.26 | 1.76 | 53.02 | 90.0-91.0 | 0.45 | 632.43 | 0.07 | 98.25 |
| 44.0-45.0 | 11.30 | 352.56 | 1.76 | 54.77 | 91.0-92.0 | 0.36 | 632.80 | 0.06 | 98.31 |
| 45.0-46.0 | 11.23 | 363.78 | 1.74 | 56.52 | 92.0-93.0 | 0.30 | 633.09 | 0.05 | 98.36 |
| 46.0-47.0 | 11.13 | 374.91 | 1.73 | 58.25 | 93.0-94.0 | 0.27 | 633.37 | 0.04 | 98.40 |

IES Indoor Report

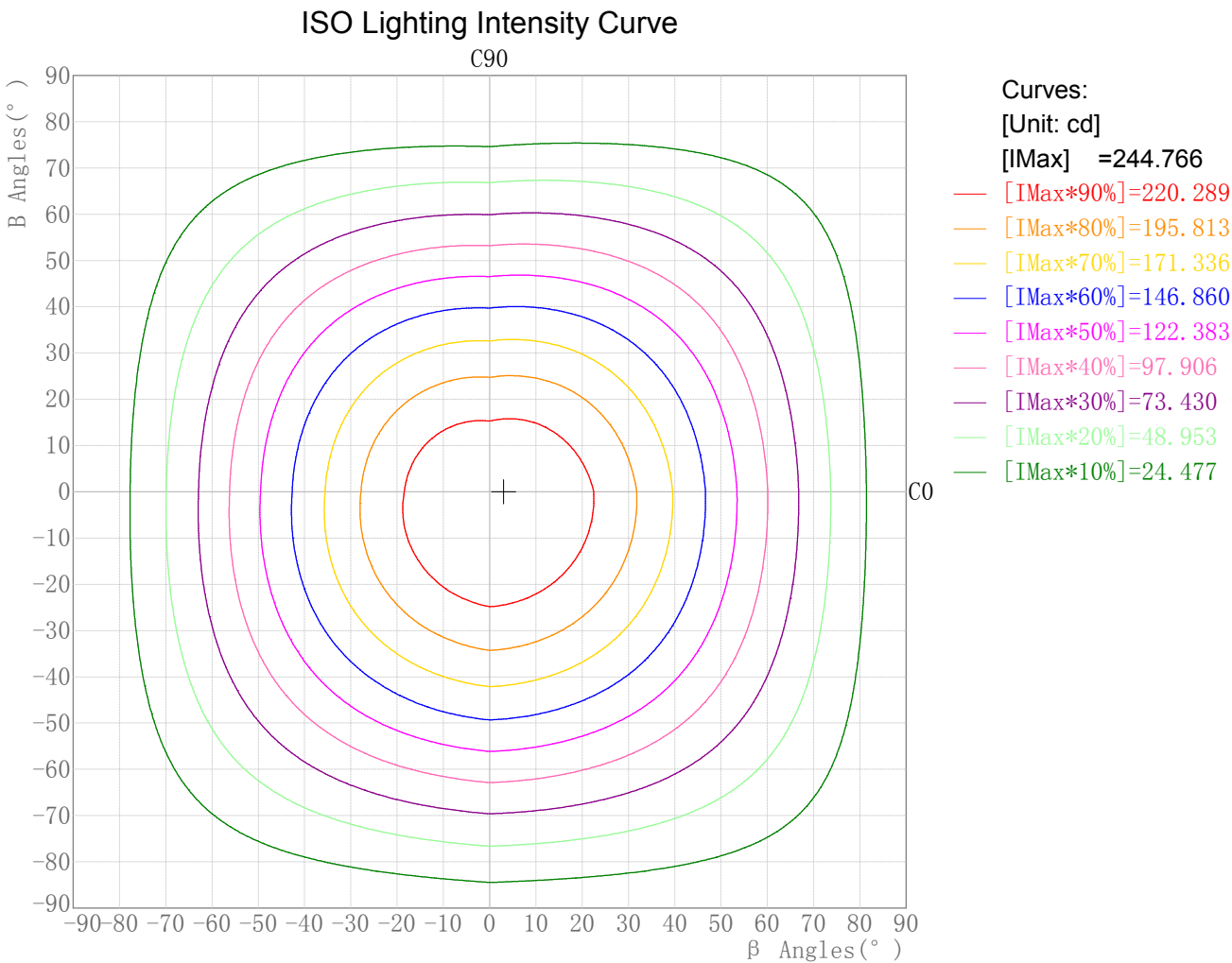
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Zonal Flux Tabulation - (Cont.)

| 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. 26 | 633. 63 | 0. 04 | 98. 44 | 141. 0-142. 0 | 0. 12 | 640. 99 | 0. 02 | 99. 58 |
| 95. 0-96. 0 | 0. 25 | 633. 88 | 0. 04 | 98. 48 | 142. 0-143. 0 | 0. 12 | 641. 11 | 0. 02 | 99. 60 |
| 96. 0-97. 0 | 0. 24 | 634. 12 | 0. 04 | 98. 51 | 143. 0-144. 0 | 0. 12 | 641. 22 | 0. 02 | 99. 62 |
| 97. 0-98. 0 | 0. 23 | 634. 35 | 0. 04 | 98. 55 | 144. 0-145. 0 | 0. 11 | 641. 34 | 0. 02 | 99. 64 |
| 98. 0-99. 0 | 0. 22 | 634. 57 | 0. 03 | 98. 59 | 145. 0-146. 0 | 0. 11 | 641. 45 | 0. 02 | 99. 65 |
| 99. 0-100. 0 | 0. 22 | 634. 79 | 0. 03 | 98. 62 | 146. 0-147. 0 | 0. 11 | 641. 56 | 0. 02 | 99. 67 |
| 100. 0-101. 0 | 0. 21 | 635. 00 | 0. 03 | 98. 65 | 147. 0-148. 0 | 0. 11 | 641. 67 | 0. 02 | 99. 69 |
| 101. 0-102. 0 | 0. 20 | 635. 21 | 0. 03 | 98. 68 | 148. 0-149. 0 | 0. 11 | 641. 78 | 0. 02 | 99. 70 |
| 102. 0-103. 0 | 0. 20 | 635. 41 | 0. 03 | 98. 71 | 149. 0-150. 0 | 0. 10 | 641. 88 | 0. 02 | 99. 72 |
| 103. 0-104. 0 | 0. 19 | 635. 60 | 0. 03 | 98. 74 | 150. 0-151. 0 | 0. 10 | 641. 98 | 0. 02 | 99. 74 |
| 104. 0-105. 0 | 0. 19 | 635. 79 | 0. 03 | 98. 77 | 151. 0-152. 0 | 0. 10 | 642. 09 | 0. 02 | 99. 75 |
| 105. 0-106. 0 | 0. 18 | 635. 97 | 0. 03 | 98. 80 | 152. 0-153. 0 | 0. 10 | 642. 19 | 0. 02 | 99. 77 |
| 106. 0-107. 0 | 0. 18 | 636. 15 | 0. 03 | 98. 83 | 153. 0-154. 0 | 0. 10 | 642. 29 | 0. 02 | 99. 78 |
| 107. 0-108. 0 | 0. 17 | 636. 32 | 0. 03 | 98. 86 | 154. 0-155. 0 | 0. 10 | 642. 39 | 0. 02 | 99. 80 |
| 108. 0-109. 0 | 0. 17 | 636. 49 | 0. 03 | 98. 88 | 155. 0-156. 0 | 0. 09 | 642. 48 | 0. 01 | 99. 81 |
| 109. 0-110. 0 | 0. 17 | 636. 65 | 0. 03 | 98. 91 | 156. 0-157. 0 | 0. 09 | 642. 57 | 0. 01 | 99. 83 |
| 110. 0-111. 0 | 0. 16 | 636. 81 | 0. 03 | 98. 93 | 157. 0-158. 0 | 0. 09 | 642. 66 | 0. 01 | 99. 84 |
| 111. 0-112. 0 | 0. 16 | 636. 97 | 0. 02 | 98. 96 | 158. 0-159. 0 | 0. 09 | 642. 74 | 0. 01 | 99. 85 |
| 112. 0-113. 0 | 0. 16 | 637. 13 | 0. 02 | 98. 98 | 159. 0-160. 0 | 0. 08 | 642. 83 | 0. 01 | 99. 87 |
| 113. 0-114. 0 | 0. 15 | 637. 28 | 0. 02 | 99. 01 | 160. 0-161. 0 | 0. 08 | 642. 91 | 0. 01 | 99. 88 |
| 114. 0-115. 0 | 0. 15 | 637. 43 | 0. 02 | 99. 03 | 161. 0-162. 0 | 0. 08 | 642. 99 | 0. 01 | 99. 89 |
| 115. 0-116. 0 | 0. 15 | 637. 58 | 0. 02 | 99. 05 | 162. 0-163. 0 | 0. 07 | 643. 06 | 0. 01 | 99. 90 |
| 116. 0-117. 0 | 0. 15 | 637. 72 | 0. 02 | 99. 07 | 163. 0-164. 0 | 0. 07 | 643. 13 | 0. 01 | 99. 91 |
| 117. 0-118. 0 | 0. 14 | 637. 87 | 0. 02 | 99. 10 | 164. 0-165. 0 | 0. 07 | 643. 20 | 0. 01 | 99. 92 |
| 118. 0-119. 0 | 0. 14 | 638. 01 | 0. 02 | 99. 12 | 165. 0-166. 0 | 0. 06 | 643. 26 | 0. 01 | 99. 93 |
| 119. 0-120. 0 | 0. 14 | 638. 15 | 0. 02 | 99. 14 | 166. 0-167. 0 | 0. 06 | 643. 31 | 0. 01 | 99. 94 |
| 120. 0-121. 0 | 0. 14 | 638. 29 | 0. 02 | 99. 16 | 167. 0-168. 0 | 0. 05 | 643. 36 | 0. 01 | 99. 95 |
| 121. 0-122. 0 | 0. 14 | 638. 42 | 0. 02 | 99. 18 | 168. 0-169. 0 | 0. 05 | 643. 41 | 0. 01 | 99. 96 |
| 122. 0-123. 0 | 0. 14 | 638. 56 | 0. 02 | 99. 20 | 169. 0-170. 0 | 0. 05 | 643. 46 | 0. 01 | 99. 97 |
| 123. 0-124. 0 | 0. 13 | 638. 70 | 0. 02 | 99. 23 | 170. 0-171. 0 | 0. 04 | 643. 50 | 0. 01 | 99. 97 |
| 124. 0-125. 0 | 0. 13 | 638. 83 | 0. 02 | 99. 25 | 171. 0-172. 0 | 0. 04 | 643. 54 | 0. 01 | 99. 98 |
| 125. 0-126. 0 | 0. 13 | 638. 96 | 0. 02 | 99. 27 | 172. 0-173. 0 | 0. 03 | 643. 57 | 0. 01 | 99. 98 |
| 126. 0-127. 0 | 0. 13 | 639. 09 | 0. 02 | 99. 29 | 173. 0-174. 0 | 0. 03 | 643. 60 | 0. 00 | 99. 99 |
| 127. 0-128. 0 | 0. 13 | 639. 23 | 0. 02 | 99. 31 | 174. 0-175. 0 | 0. 02 | 643. 62 | 0. 00 | 99. 99 |
| 128. 0-129. 0 | 0. 13 | 639. 36 | 0. 02 | 99. 33 | 175. 0-176. 0 | 0. 02 | 643. 64 | 0. 00 | 99. 99 |
| 129. 0-130. 0 | 0. 13 | 639. 49 | 0. 02 | 99. 35 | 176. 0-177. 0 | 0. 01 | 643. 66 | 0. 00 | 100. 00 |
| 130. 0-131. 0 | 0. 13 | 639. 62 | 0. 02 | 99. 37 | 177. 0-178. 0 | 0. 01 | 643. 67 | 0. 00 | 100. 00 |
| 131. 0-132. 0 | 0. 13 | 639. 74 | 0. 02 | 99. 39 | 178. 0-179. 0 | 0. 01 | 643. 67 | 0. 00 | 100. 00 |
| 132. 0-133. 0 | 0. 13 | 639. 87 | 0. 02 | 99. 41 | 179. 0-180. 0 | 0. 00 | 643. 68 | 0. 00 | 100. 00 |
| 133. 0-134. 0 | 0. 13 | 640. 00 | 0. 02 | 99. 43 | | | | | |
| 134. 0-135. 0 | 0. 13 | 640. 13 | 0. 02 | 99. 45 | | | | | |
| 135. 0-136. 0 | 0. 13 | 640. 25 | 0. 02 | 99. 47 | | | | | |
| 136. 0-137. 0 | 0. 13 | 640. 38 | 0. 02 | 99. 49 | | | | | |
| 137. 0-138. 0 | 0. 13 | 640. 51 | 0. 02 | 99. 51 | | | | | |
| 138. 0-139. 0 | 0. 12 | 640. 63 | 0. 02 | 99. 53 | | | | | |
| 139. 0-140. 0 | 0. 12 | 640. 75 | 0. 02 | 99. 55 | | | | | |
| 140. 0-141. 0 | 0. 12 | 640. 87 | 0. 02 | 99. 56 | | | | | |

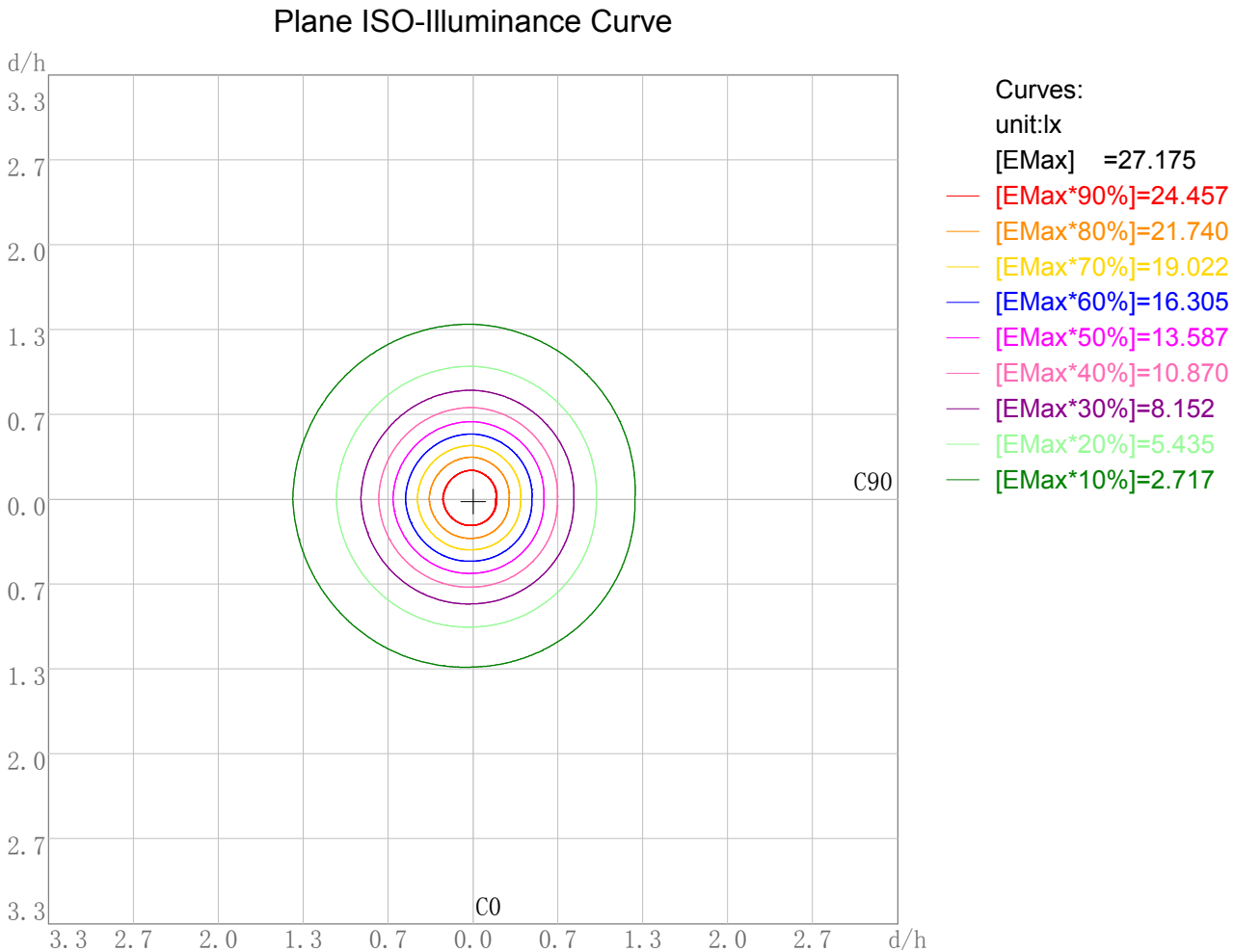
Rectangle ISO Lighting Intensity Diagram

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |



Plane ISO-Illuminance Diagram

| | | |
|---------------------------------------|-----------------------|------------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |

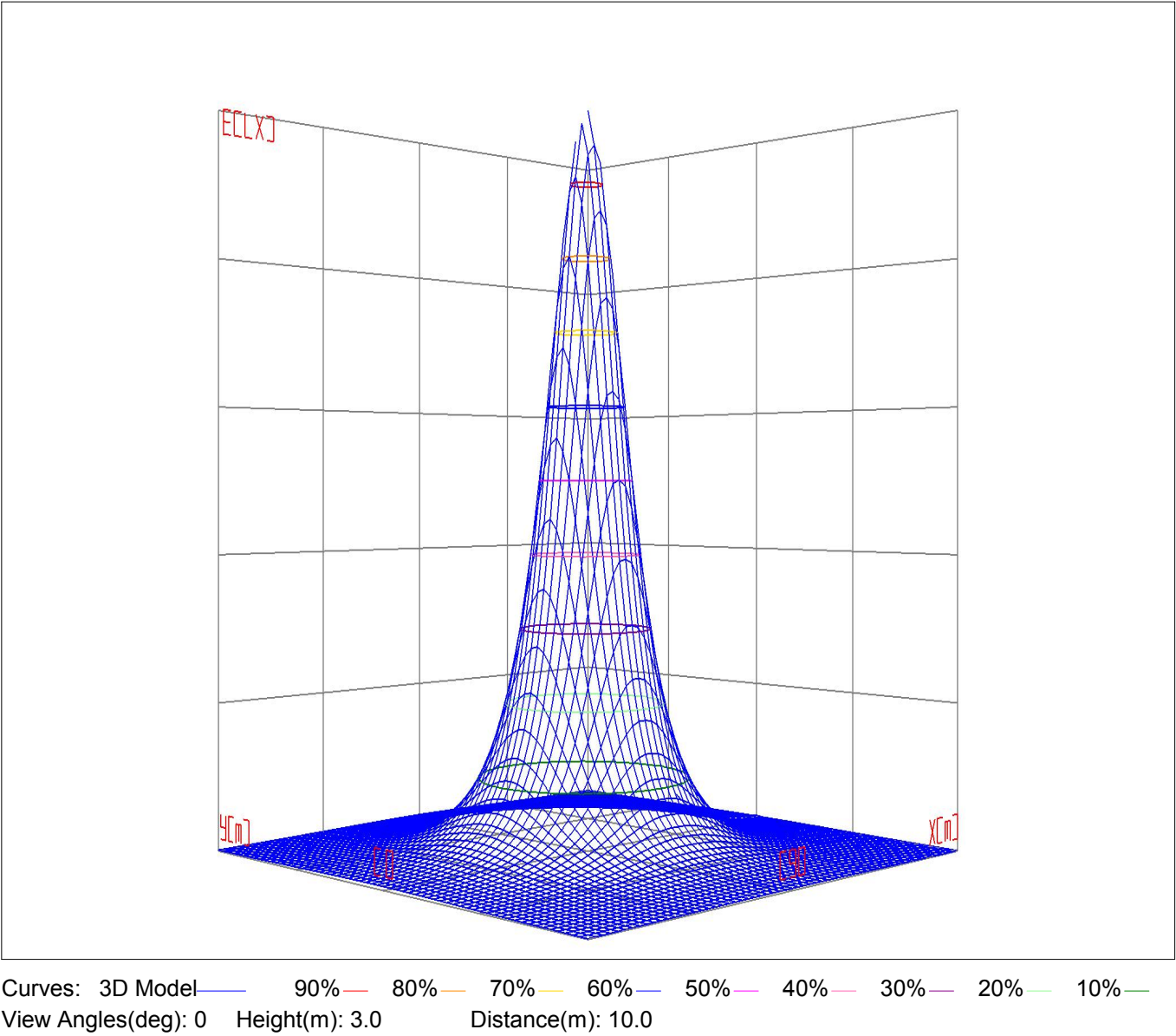


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 27.17
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

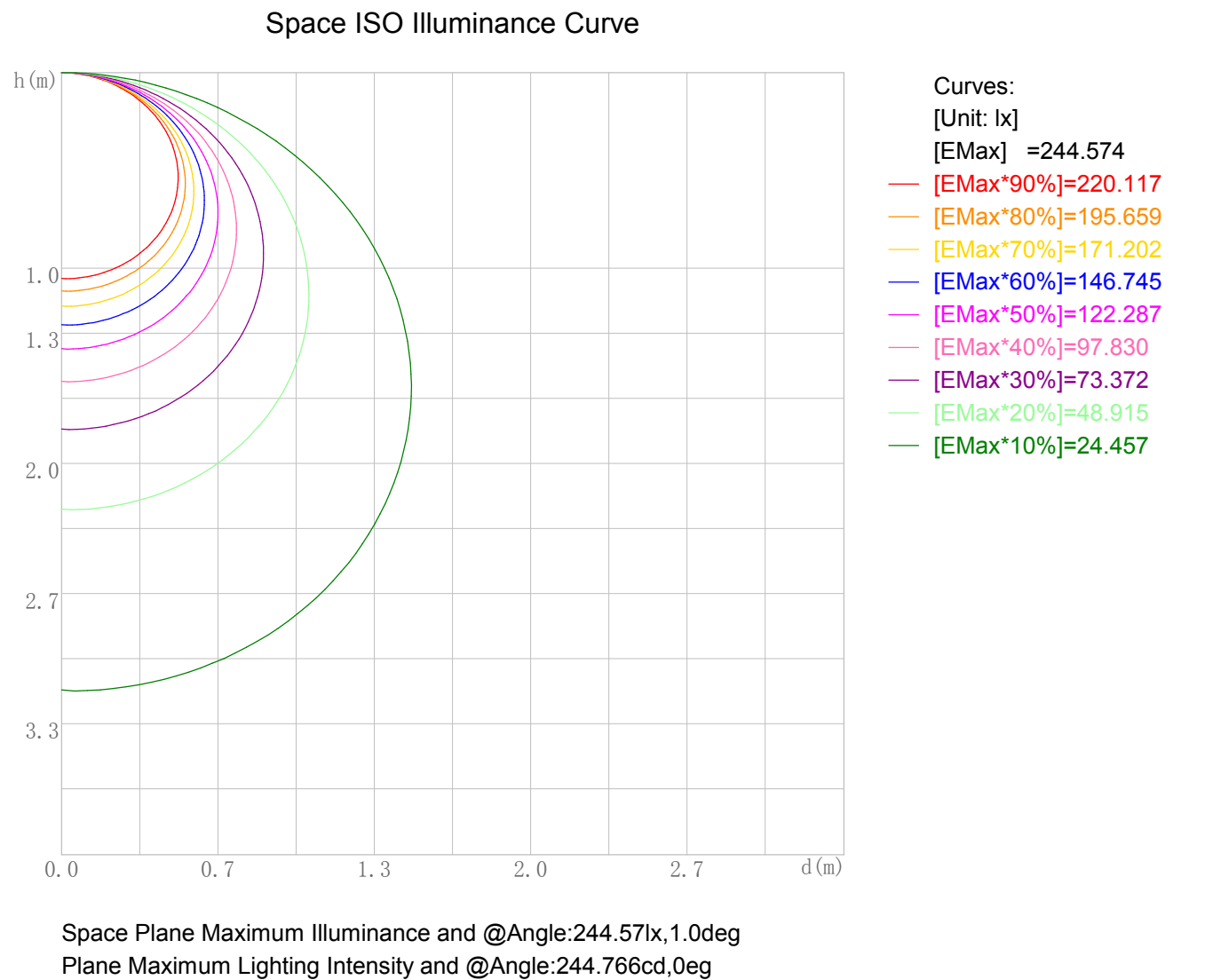
| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |

3D Plane Illuminance Modal



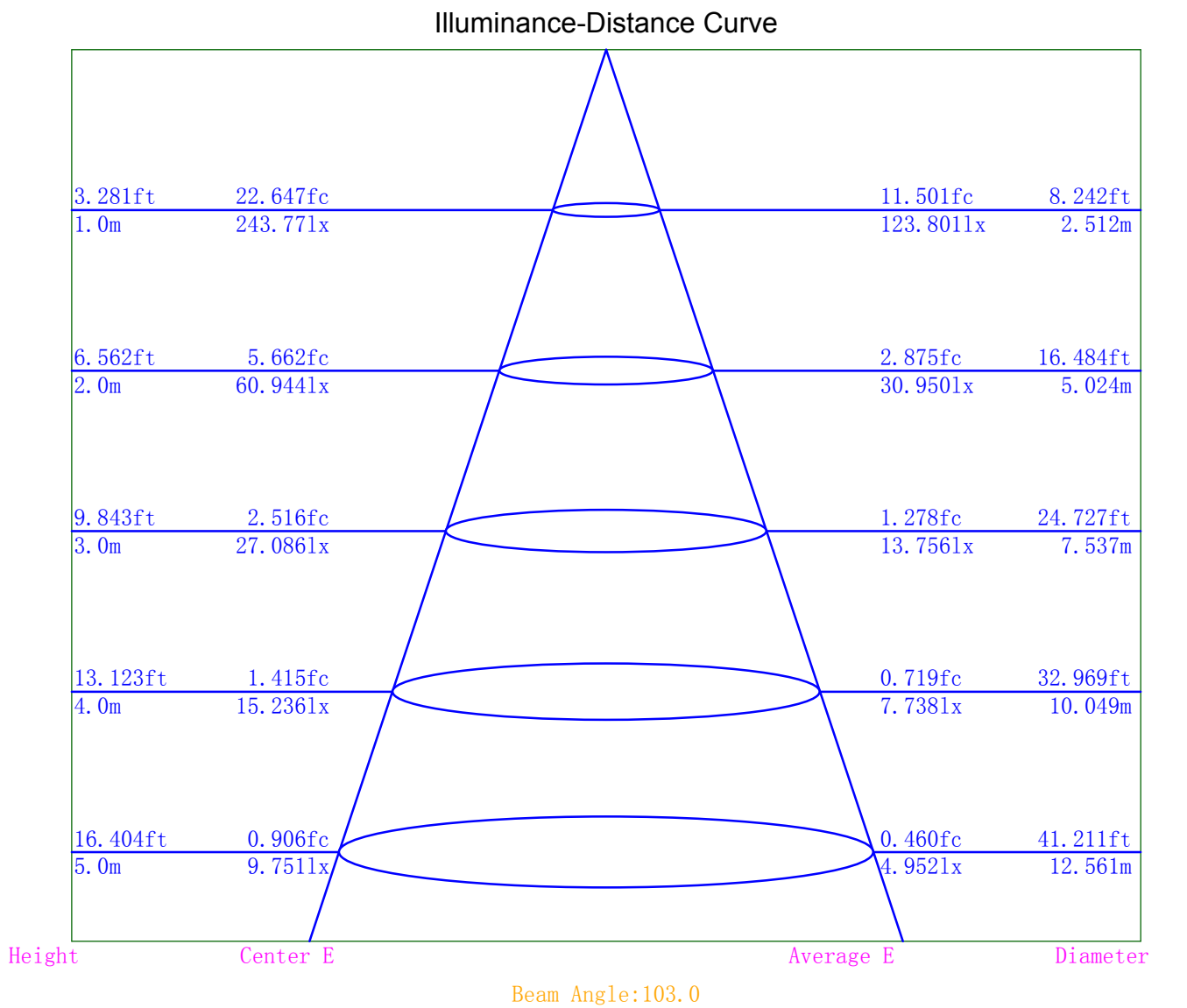
Space ISO Illuminance Diagram

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |



Illuminance-Distance Diagram

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |



Indoor Luminance Limiting Curves

| | | |
|---------------------------------------|-----------------------|------------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |

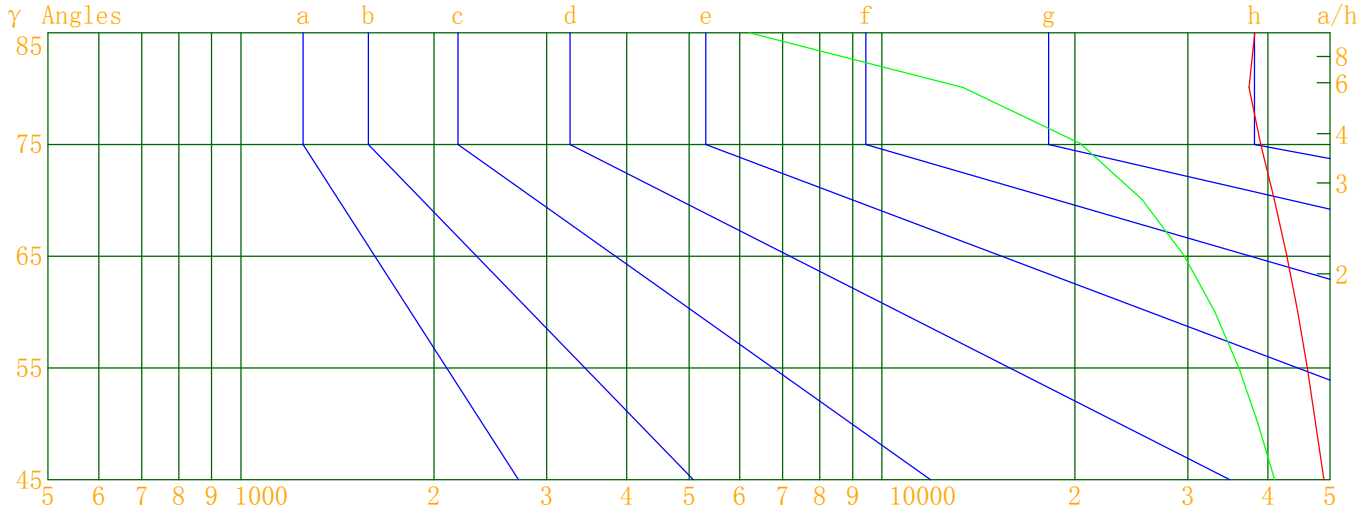
Glare Grade Table

| 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 | 48897 | 47492 | 46058 | 44497 | 42802 | 40949 | 38954 | 37397 | 38141 |
| C90 | 41000 | 38602 | 36036 | 33063 | 29599 | 25462 | 20398 | 13387 | 6212 |

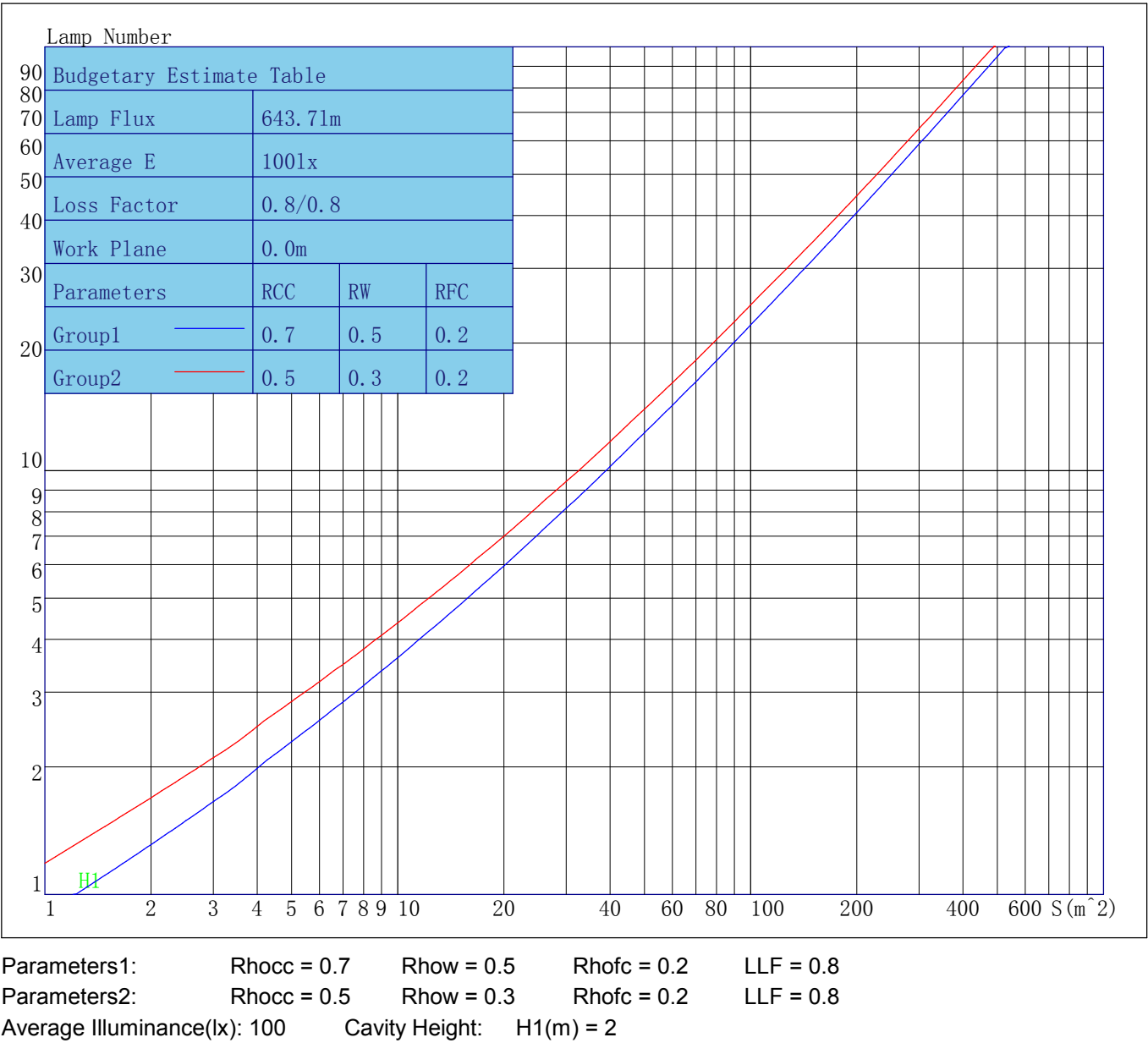
Luminance Limiting Curve



Luminous Size: Length(m)=-0.075 Width(m)=-0.075 Height(m)=0.000 Area(m^2)=0.004418
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

| | | |
|---------------------------------------|-----------------------|------------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catalog: | Test ID: 01 |
| Lamp Name: | Lamp Catalog: | Test Lab: Quality Department |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |



Indoor Coefficient of Utilization Table

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |

| 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 108 | 104 | 99 | 96 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 92 | 90 | 88 | 89 | 87 | 85 | 82 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 81 | 77 | 73 | 78 | 74 | 71 | 69 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 58 |
| 4 | 83 | 71 | 62 | 56 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 42 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 |
| 9 | 57 | 44 | 36 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

Unified Glare Rating Table

| | | |
|---------------------------------------|-----------------------|-----------------------------|
| Lum. Name: DL44-10-XX-09 2700K RA80 | Lum. Catelog: | Test ID: 01 |
| Lamp Name: | Lamp Catelog: | Test Lab: Quality Deparment |
| Manufacture: Shenzhen Norming lightin | Test Machine:GON-2000 | Test Date: 2021/08/24 |

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 | 25.6 | 27.2 | 26.0 | 27.6 | 27.9 | 24.3 | 25.8 | 24.7 | 26.2 | 26.6 |
| | 27.2 | 28.7 | 27.6 | 29.0 | 29.4 | 25.4 | 26.9 | 25.8 | 27.2 | 27.6 |
| | 27.9 | 29.3 | 28.3 | 29.6 | 30.1 | 25.8 | 27.2 | 26.2 | 27.5 | 28.0 |
| | 28.4 | 29.7 | 28.9 | 30.1 | 30.5 | 26.0 | 27.2 | 26.4 | 27.6 | 28.1 |
| | 28.7 | 29.9 | 29.1 | 30.3 | 30.7 | 26.0 | 27.2 | 26.4 | 27.6 | 28.1 |
| | 28.8 | 30.0 | 29.3 | 30.4 | 30.9 | 26.0 | 27.1 | 26.4 | 27.5 | 28.0 |
| X=4H Y=2H | 26.3 | 27.7 | 26.7 | 28.1 | 28.5 | 25.0 | 26.3 | 25.4 | 26.7 | 27.1 |
| | 28.1 | 29.3 | 28.5 | 29.7 | 30.1 | 26.3 | 27.5 | 26.8 | 27.9 | 28.4 |
| | 28.9 | 29.9 | 29.4 | 30.4 | 30.9 | 26.8 | 27.8 | 27.3 | 28.3 | 28.8 |
| | 29.6 | 30.5 | 30.1 | 31.0 | 31.5 | 27.1 | 28.0 | 27.6 | 28.5 | 29.0 |
| | 29.8 | 30.7 | 30.3 | 31.2 | 31.7 | 27.1 | 28.0 | 27.6 | 28.4 | 28.9 |
| | 30.1 | 30.9 | 30.6 | 31.4 | 31.9 | 27.1 | 27.9 | 27.6 | 28.4 | 28.9 |
| X=8H Y=4H | 29.2 | 30.1 | 29.7 | 30.6 | 31.1 | 27.1 | 28.0 | 27.6 | 28.4 | 28.9 |
| | 30.0 | 30.8 | 30.6 | 31.3 | 31.9 | 27.5 | 28.2 | 28.0 | 28.7 | 29.3 |
| | 30.4 | 31.0 | 30.9 | 31.6 | 32.1 | 27.5 | 28.2 | 28.1 | 28.7 | 29.2 |
| | 30.7 | 31.3 | 31.2 | 31.8 | 32.4 | 27.5 | 28.1 | 28.1 | 28.6 | 29.2 |
| X=12H Y=4H | 29.3 | 30.0 | 29.8 | 30.5 | 31.0 | 27.1 | 27.9 | 27.6 | 28.4 | 28.9 |
| | 30.1 | 30.8 | 30.7 | 31.3 | 31.8 | 27.5 | 28.2 | 28.1 | 28.7 | 29.2 |
| | 30.5 | 31.1 | 31.0 | 31.6 | 32.2 | 27.6 | 28.2 | 28.1 | 28.7 | 29.3 |
| Variations with the objerver position at spacings | | | | | | | | | | |
| S=1.0H | 0.4/-0.4 | | | | | 0.8/-1.0 | | | | |
| S=1.5H | 0.7/-0.8 | | | | | 1.4/-1.7 | | | | |
| S=2.0H | 0.9/-1.0 | | | | | 1.7/-2.2 | | | | |
| Reduced UGR Table: | | | | | | | | | | |
| Nordic Standard Table: | BK0 | | | | | BK0 | | | | |
| Correction Value | 3.0 | | | | | 2.0 | | | | |

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

IES Indoor Report

Photometric Filename:DL44-10-XX-09 2700K RA80.IES

Candela Tabulation

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|--------|--------|--------|--------|--------|
| γ 0.0 | 243.77 | 243.77 | 243.77 | 243.77 |
| γ 1.0 | 244.69 | 241.71 | 244.16 | 242.86 |
| γ 2.0 | 244.72 | 241.04 | 243.66 | 243.32 |
| γ 3.0 | 244.77 | 240.04 | 242.97 | 243.43 |
| γ 4.0 | 244.35 | 239.11 | 242.50 | 243.61 |
| γ 5.0 | 244.15 | 237.97 | 241.65 | 244.01 |
| γ 6.0 | 243.79 | 236.83 | 240.88 | 243.71 |
| γ 7.0 | 243.15 | 235.41 | 239.72 | 243.55 |
| γ 8.0 | 242.44 | 233.97 | 238.64 | 243.25 |
| γ 9.0 | 241.67 | 232.28 | 237.35 | 242.90 |
| γ 10.0 | 240.78 | 230.58 | 235.98 | 242.16 |
| γ 11.0 | 239.82 | 228.89 | 234.62 | 241.48 |
| γ 12.0 | 238.47 | 227.02 | 233.11 | 240.79 |
| γ 13.0 | 237.60 | 225.14 | 231.34 | 239.60 |
| γ 14.0 | 235.91 | 223.10 | 229.30 | 238.73 |
| γ 15.0 | 234.49 | 220.95 | 227.56 | 237.61 |
| γ 16.0 | 232.89 | 218.59 | 225.47 | 236.17 |
| γ 17.0 | 231.31 | 216.27 | 223.48 | 234.89 |
| γ 18.0 | 229.50 | 213.91 | 221.24 | 233.51 |
| γ 19.0 | 227.60 | 211.26 | 219.03 | 231.84 |
| γ 20.0 | 225.45 | 208.84 | 216.77 | 230.12 |
| γ 21.0 | 223.38 | 206.29 | 214.15 | 228.27 |
| γ 22.0 | 221.33 | 203.38 | 211.62 | 226.40 |
| γ 23.0 | 219.12 | 200.70 | 208.99 | 224.45 |
| γ 24.0 | 216.58 | 197.83 | 206.34 | 222.17 |
| γ 25.0 | 214.05 | 195.06 | 203.71 | 219.95 |
| γ 26.0 | 211.83 | 191.88 | 200.95 | 217.62 |
| γ 27.0 | 209.13 | 188.97 | 198.14 | 215.51 |
| γ 28.0 | 206.42 | 186.03 | 195.21 | 213.07 |
| γ 29.0 | 203.66 | 182.91 | 192.08 | 210.38 |
| γ 30.0 | 200.91 | 179.60 | 189.08 | 207.90 |
| γ 31.0 | 197.97 | 176.36 | 186.07 | 204.99 |
| γ 32.0 | 195.22 | 173.18 | 182.91 | 202.35 |
| γ 33.0 | 192.05 | 170.00 | 179.67 | 199.48 |
| γ 34.0 | 189.04 | 166.44 | 176.63 | 196.67 |
| γ 35.0 | 186.04 | 163.25 | 173.14 | 193.73 |
| γ 36.0 | 182.88 | 159.64 | 169.86 | 190.75 |
| γ 37.0 | 179.57 | 156.31 | 166.50 | 187.65 |
| γ 38.0 | 176.44 | 152.77 | 163.11 | 184.72 |
| γ 39.0 | 173.22 | 149.24 | 159.63 | 181.49 |
| γ 40.0 | 169.86 | 145.80 | 156.23 | 178.29 |
| γ 41.0 | 166.47 | 142.26 | 152.84 | 175.02 |
| γ 42.0 | 163.17 | 138.79 | 149.17 | 171.78 |
| γ 43.0 | 159.74 | 135.11 | 145.68 | 168.53 |
| γ 44.0 | 156.16 | 131.52 | 142.14 | 165.13 |
| γ 45.0 | 152.75 | 128.08 | 138.73 | 161.83 |
| γ 46.0 | 149.16 | 124.32 | 135.09 | 158.30 |

Photometric Filename:DL44-10-XX-09 2700K RA80.IES

| V/H | C0. 0 | C90. 0 | C180. 0 | C270. 0 |
|----------------|---------|---------|---------|---------|
| γ 47. 0 | 145. 57 | 120. 57 | 131. 46 | 154. 86 |
| γ 48. 0 | 142. 04 | 116. 96 | 127. 93 | 151. 63 |
| γ 49. 0 | 138. 54 | 113. 37 | 124. 19 | 148. 03 |
| γ 50. 0 | 134. 87 | 109. 62 | 120. 56 | 144. 42 |
| γ 51. 0 | 131. 35 | 105. 99 | 116. 85 | 140. 95 |
| γ 52. 0 | 127. 69 | 102. 38 | 113. 23 | 137. 31 |
| γ 53. 0 | 124. 07 | 98. 66 | 109. 49 | 133. 93 |
| γ 54. 0 | 120. 36 | 94. 96 | 105. 92 | 130. 23 |
| γ 55. 0 | 116. 71 | 91. 31 | 102. 35 | 126. 58 |
| γ 56. 0 | 113. 03 | 87. 53 | 98. 56 | 122. 88 |
| γ 57. 0 | 109. 45 | 83. 96 | 94. 99 | 119. 39 |
| γ 58. 0 | 105. 61 | 80. 32 | 91. 25 | 115. 68 |
| γ 59. 0 | 101. 92 | 76. 65 | 87. 59 | 112. 03 |
| γ 60. 0 | 98. 29 | 73. 03 | 83. 95 | 108. 41 |
| γ 61. 0 | 94. 64 | 69. 45 | 80. 37 | 104. 85 |
| γ 62. 0 | 90. 98 | 65. 81 | 76. 74 | 101. 03 |
| γ 63. 0 | 87. 29 | 62. 25 | 73. 08 | 97. 46 |
| γ 64. 0 | 83. 58 | 58. 73 | 69. 46 | 93. 79 |
| γ 65. 0 | 79. 92 | 55. 26 | 65. 97 | 90. 18 |
| γ 66. 0 | 76. 21 | 51. 79 | 62. 35 | 86. 65 |
| γ 67. 0 | 72. 66 | 48. 37 | 58. 83 | 82. 90 |
| γ 68. 0 | 68. 96 | 45. 03 | 55. 42 | 79. 31 |
| γ 69. 0 | 65. 41 | 41. 71 | 51. 91 | 75. 65 |
| γ 70. 0 | 61. 87 | 38. 47 | 48. 53 | 72. 04 |
| γ 71. 0 | 58. 31 | 35. 31 | 45. 19 | 68. 49 |
| γ 72. 0 | 54. 77 | 32. 19 | 41. 94 | 64. 92 |
| γ 73. 0 | 51. 32 | 29. 16 | 38. 69 | 61. 40 |
| γ 74. 0 | 47. 96 | 26. 20 | 35. 51 | 57. 92 |
| γ 75. 0 | 44. 54 | 23. 32 | 32. 40 | 54. 51 |
| γ 76. 0 | 41. 31 | 20. 50 | 29. 40 | 51. 08 |
| γ 77. 0 | 37. 99 | 17. 83 | 26. 43 | 47. 70 |
| γ 78. 0 | 34. 83 | 15. 22 | 23. 60 | 44. 37 |
| γ 79. 0 | 31. 73 | 12. 70 | 20. 79 | 41. 18 |
| γ 80. 0 | 28. 69 | 10. 27 | 18. 08 | 37. 93 |
| γ 81. 0 | 25. 70 | 7. 98 | 15. 47 | 34. 80 |
| γ 82. 0 | 22. 80 | 5. 82 | 12. 94 | 31. 71 |
| γ 83. 0 | 19. 99 | 3. 91 | 10. 54 | 28. 69 |
| γ 84. 0 | 17. 29 | 2. 63 | 8. 23 | 25. 77 |
| γ 85. 0 | 14. 69 | 2. 39 | 6. 07 | 22. 96 |
| γ 86. 0 | 12. 15 | 2. 31 | 4. 11 | 20. 16 |
| γ 87. 0 | 9. 75 | 2. 24 | 2. 65 | 17. 48 |
| γ 88. 0 | 7. 45 | 2. 16 | 2. 17 | 14. 89 |
| γ 89. 0 | 5. 39 | 2. 08 | 2. 12 | 12. 38 |
| γ 90. 0 | 3. 86 | 2. 03 | 2. 05 | 9. 77 |
| γ 91. 0 | 3. 35 | 1. 95 | 2. 01 | 7. 58 |
| γ 92. 0 | 3. 21 | 1. 89 | 1. 95 | 4. 43 |
| γ 93. 0 | 3. 08 | 1. 84 | 1. 91 | 3. 48 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 94.0 | 2.95 | 1.78 | 1.86 | 3.06 |
| γ 95.0 | 2.84 | 1.73 | 1.81 | 2.94 |
| γ 96.0 | 2.74 | 1.67 | 1.78 | 2.83 |
| γ 97.0 | 2.62 | 1.62 | 1.73 | 2.72 |
| γ 98.0 | 2.52 | 1.57 | 1.69 | 2.62 |
| γ 99.0 | 2.45 | 1.53 | 1.66 | 2.54 |
| γ 100.0 | 2.36 | 1.47 | 1.63 | 2.45 |
| γ 101.0 | 2.29 | 1.45 | 1.60 | 2.39 |
| γ 102.0 | 2.22 | 1.41 | 1.58 | 2.33 |
| γ 103.0 | 2.14 | 1.38 | 1.55 | 2.26 |
| γ 104.0 | 2.07 | 1.34 | 1.52 | 2.20 |
| γ 105.0 | 2.01 | 1.33 | 1.50 | 2.15 |
| γ 106.0 | 1.95 | 1.29 | 1.47 | 2.10 |
| γ 107.0 | 1.88 | 1.29 | 1.46 | 2.05 |
| γ 108.0 | 1.83 | 1.27 | 1.44 | 2.00 |
| γ 109.0 | 1.79 | 1.26 | 1.43 | 1.95 |
| γ 110.0 | 1.74 | 1.26 | 1.42 | 1.91 |
| γ 111.0 | 1.69 | 1.26 | 1.42 | 1.88 |
| γ 112.0 | 1.66 | 1.25 | 1.41 | 1.84 |
| γ 113.0 | 1.62 | 1.26 | 1.40 | 1.82 |
| γ 114.0 | 1.59 | 1.26 | 1.39 | 1.78 |
| γ 115.0 | 1.57 | 1.27 | 1.39 | 1.76 |
| γ 116.0 | 1.54 | 1.28 | 1.39 | 1.74 |
| γ 117.0 | 1.52 | 1.29 | 1.38 | 1.72 |
| γ 118.0 | 1.50 | 1.31 | 1.38 | 1.70 |
| γ 119.0 | 1.49 | 1.32 | 1.38 | 1.69 |
| γ 120.0 | 1.46 | 1.34 | 1.38 | 1.67 |
| γ 121.0 | 1.47 | 1.36 | 1.38 | 1.65 |
| γ 122.0 | 1.46 | 1.39 | 1.38 | 1.65 |
| γ 123.0 | 1.45 | 1.41 | 1.39 | 1.64 |
| γ 124.0 | 1.44 | 1.44 | 1.40 | 1.63 |
| γ 125.0 | 1.44 | 1.47 | 1.41 | 1.62 |
| γ 126.0 | 1.44 | 1.49 | 1.43 | 1.61 |
| γ 127.0 | 1.45 | 1.52 | 1.46 | 1.60 |
| γ 128.0 | 1.45 | 1.55 | 1.49 | 1.60 |
| γ 129.0 | 1.45 | 1.58 | 1.50 | 1.59 |
| γ 130.0 | 1.46 | 1.60 | 1.53 | 1.60 |
| γ 131.0 | 1.47 | 1.64 | 1.52 | 1.60 |
| γ 132.0 | 1.48 | 1.67 | 1.49 | 1.60 |
| γ 133.0 | 1.50 | 1.70 | 1.51 | 1.63 |
| γ 134.0 | 1.52 | 1.72 | 1.53 | 1.64 |
| γ 135.0 | 1.58 | 1.76 | 1.55 | 1.67 |
| γ 136.0 | 1.74 | 1.78 | 1.57 | 1.68 |
| γ 137.0 | 1.67 | 1.81 | 1.58 | 1.69 |
| γ 138.0 | 1.64 | 1.85 | 1.61 | 1.72 |
| γ 139.0 | 1.57 | 1.86 | 1.63 | 1.74 |
| γ 140.0 | 1.58 | 1.88 | 1.64 | 1.75 |

Candela Tabulation - (Cont.)

| V/H | C0.0 | C90.0 | C180.0 | C270.0 |
|---------|------|-------|--------|--------|
| γ 141.0 | 1.60 | 1.90 | 1.67 | 1.76 |
| γ 142.0 | 1.62 | 1.90 | 1.68 | 1.78 |
| γ 143.0 | 1.64 | 1.90 | 1.71 | 1.80 |
| γ 144.0 | 1.65 | 1.92 | 1.73 | 1.82 |
| γ 145.0 | 1.66 | 1.92 | 1.75 | 1.85 |
| γ 146.0 | 1.69 | 1.93 | 1.76 | 1.87 |
| γ 147.0 | 1.71 | 1.95 | 1.79 | 1.88 |
| γ 148.0 | 1.73 | 1.97 | 1.82 | 1.91 |
| γ 149.0 | 1.75 | 1.99 | 1.83 | 1.93 |
| γ 150.0 | 1.77 | 2.01 | 1.86 | 1.95 |
| γ 151.0 | 1.79 | 2.05 | 1.88 | 2.02 |
| γ 152.0 | 1.81 | 2.07 | 1.90 | 2.18 |
| γ 153.0 | 1.84 | 2.11 | 1.92 | 2.44 |
| γ 154.0 | 1.86 | 2.13 | 1.95 | 2.39 |
| γ 155.0 | 1.88 | 2.14 | 1.95 | 2.18 |
| γ 156.0 | 1.90 | 2.17 | 1.98 | 2.12 |
| γ 157.0 | 1.93 | 2.18 | 2.00 | 2.14 |
| γ 158.0 | 1.94 | 2.19 | 2.05 | 2.17 |
| γ 159.0 | 1.96 | 2.23 | 2.20 | 2.21 |
| γ 160.0 | 1.98 | 2.23 | 2.34 | 2.30 |
| γ 161.0 | 2.01 | 2.24 | 2.35 | 2.40 |
| γ 162.0 | 2.01 | 2.27 | 2.36 | 2.38 |
| γ 163.0 | 2.04 | 2.28 | 2.37 | 2.31 |
| γ 164.0 | 2.06 | 2.29 | 2.38 | 2.32 |
| γ 165.0 | 2.08 | 2.19 | 2.33 | 2.31 |
| γ 166.0 | 2.09 | 2.09 | 2.19 | 2.25 |
| γ 167.0 | 2.12 | 2.10 | 2.17 | 2.30 |
| γ 168.0 | 2.22 | 2.11 | 2.17 | 2.39 |
| γ 169.0 | 2.37 | 2.12 | 2.19 | 2.42 |
| γ 170.0 | 2.43 | 2.14 | 2.20 | 2.44 |
| γ 171.0 | 2.46 | 2.15 | 2.22 | 2.45 |
| γ 172.0 | 2.32 | 2.17 | 2.22 | 2.47 |
| γ 173.0 | 2.22 | 2.17 | 2.25 | 2.49 |
| γ 174.0 | 2.22 | 2.18 | 2.25 | 2.34 |
| γ 175.0 | 2.22 | 2.19 | 2.25 | 2.24 |
| γ 176.0 | 2.25 | 2.21 | 2.25 | 2.24 |
| γ 177.0 | 2.24 | 2.20 | 2.25 | 2.25 |
| γ 178.0 | 2.26 | 2.21 | 2.26 | 2.25 |
| γ 179.0 | 2.27 | 2.21 | 2.27 | 2.25 |
| γ 180.0 | 2.26 | 2.26 | 2.26 | 2.26 |