

# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES

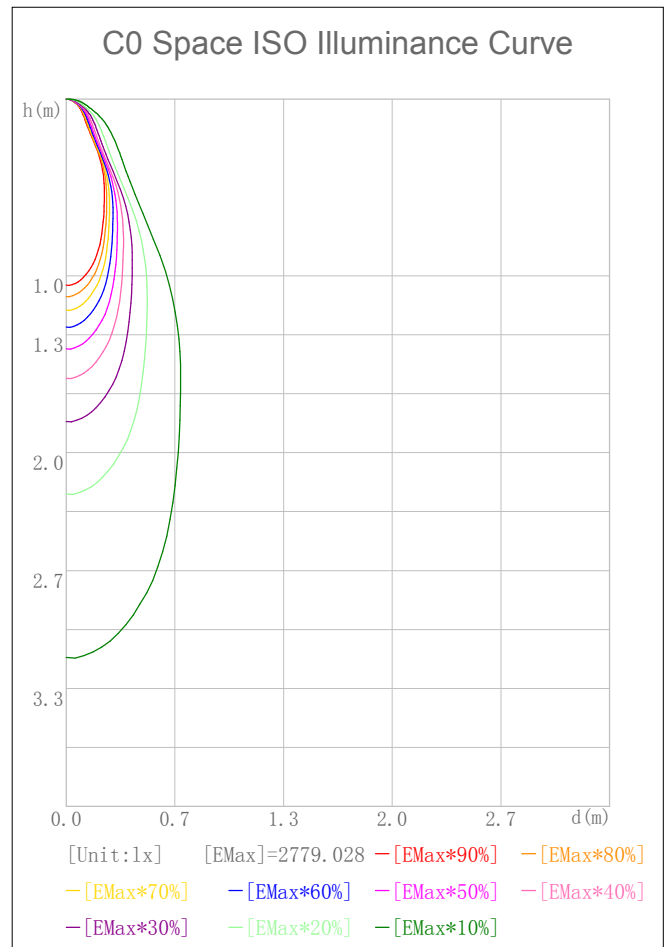
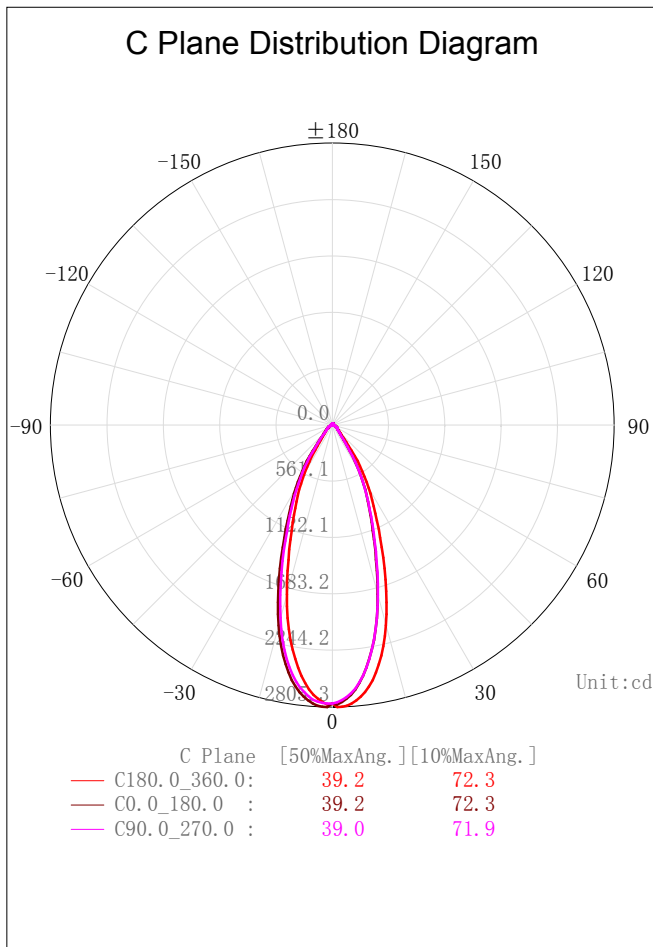
## Indoor Luminaire Photometric Data

### Description Information

Luminary Name:AD10104-20W-4000K-RA90-36D -WH-IES		Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1		Lamp Catalog: COB	Test Date: 2023/05/10
Manufacture: -		Shld. Ang(°):36	Test Machine:GON-2000
Test Lab: Test		Frequency(Hz):50	Lamp CCT(K): 4000 Ra: 90
Lum. Size(W*L*H):0.000m*-0.115m*-0.115m		Lum. Area(m2):0.000	Lum. W(kg): 0.000
Test System: C, $\gamma$	Test Step: C=22.5 $\gamma$ =1.0	Temp. (°C): 25	Humidity(%): 50.0

### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 624.000	Luminary Flux(lm): 1629.180	Field Angle(10%Imax): 72.3(°)	
Rated Power(W): 20	Luminary Efficiency: 261.09%	Down Lumens&Percent: 1583.998lm 97.23%	
Rated Voltage(V): 220	Luminary EER(lm/W): 79.048	Up Lumens&Percent: 45.182lm 2.77%	
Tested Power(W): 20.610	Max. Candela(cd): 2805.264	S/MH: C0_a180=0.639 C90_270=0.630	
Lamps' Inside: 1	Max Cand@Ang.(°): C=180.0 $\gamma$ =1.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf):219.8, 0.096, 0.969		Beam Angle(50%Imax): 39.2(°)	ErP $\phi$ use(90°): 1453.579lm
Lamp Size(W*L*H):0.000m*-0.115m*-0.115m	Left=-18.1°, Right=21.1°		IRF(%): 415.113



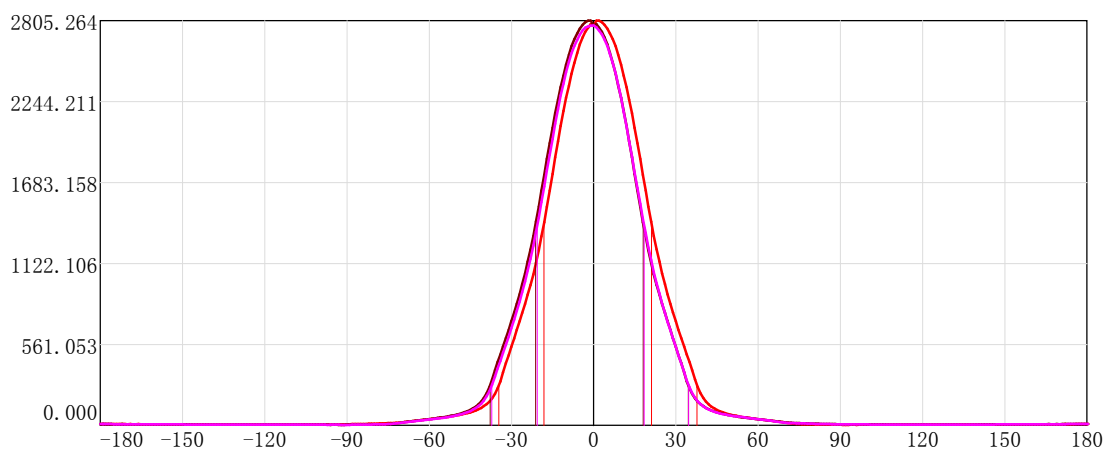
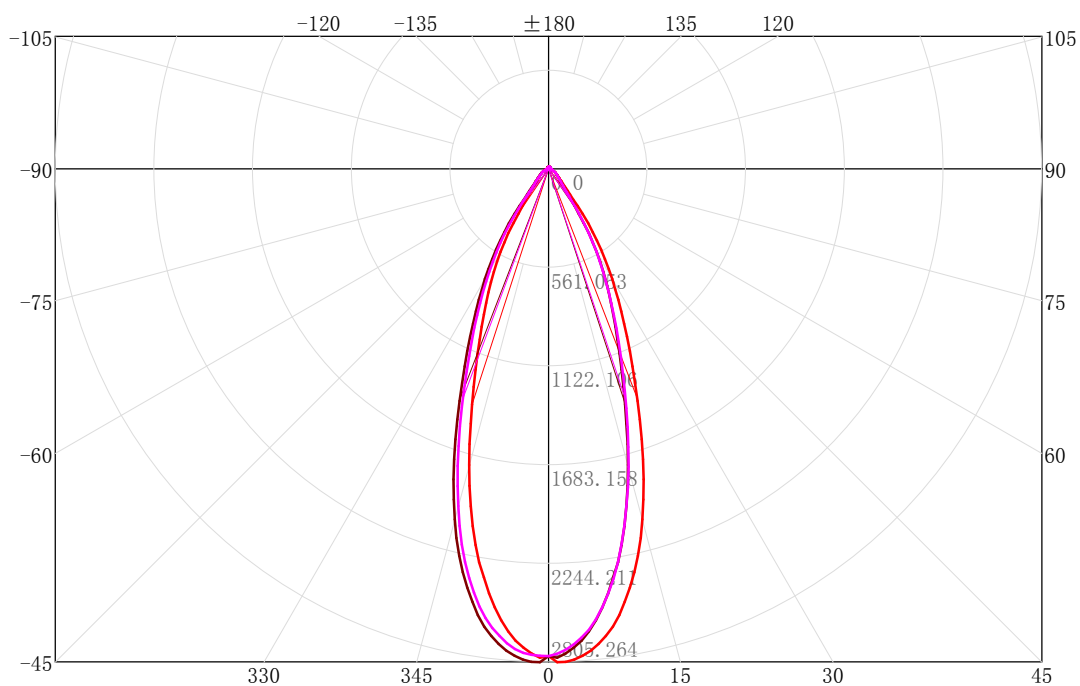
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## 2D Plane Light Intensity Distribution Curve

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine: GON-2000	Test Date: 2023/05/10

C Plane Distribution Diagram



	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C180.0_360.0:	39.2	72.3	
—	C0.0_180.0 :	39.2	72.3	
—	C90.0_270.0 :	39.0	71.9	

**IES Indoor Report**

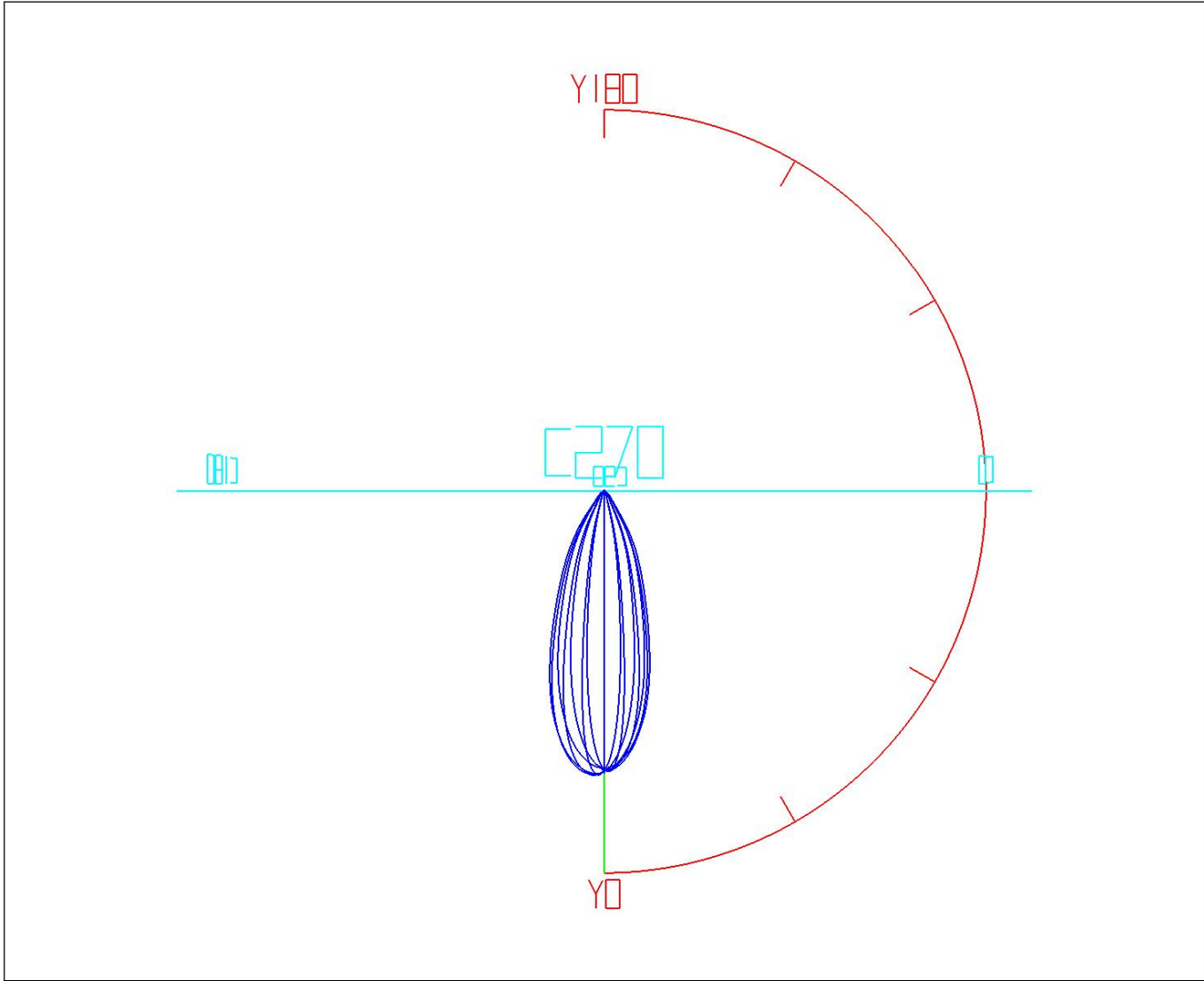
**Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES**

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**3D Light Intensity Distribution Modal**

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine:GON-2000	Test Date: 2023/05/10

**3D Light Intensity Distribution Modal**



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

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# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.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	2.65	2.65	0.42	0.42	47.0-48.0	6.62	1466.29	1.06	234.98
1.0-2.0	7.93	10.58	1.27	1.69	48.0-49.0	6.33	1472.62	1.01	236.00
2.0-3.0	13.14	23.71	2.11	3.80	49.0-50.0	6.06	1478.68	0.97	236.97
3.0-4.0	18.23	41.94	2.92	6.72	50.0-51.0	5.83	1484.51	0.93	237.90
4.0-5.0	23.14	65.08	3.71	10.43	51.0-52.0	5.62	1490.13	0.90	238.80
5.0-6.0	27.83	92.91	4.46	14.89	52.0-53.0	5.42	1495.55	0.87	239.67
6.0-7.0	32.25	125.16	5.17	20.06	53.0-54.0	5.23	1500.78	0.84	240.51
7.0-8.0	36.36	161.53	5.83	25.89	54.0-55.0	5.05	1505.83	0.81	241.32
8.0-9.0	40.11	201.64	6.43	32.31	55.0-56.0	4.88	1510.71	0.78	242.10
9.0-10.0	43.45	245.08	6.96	39.28	56.0-57.0	4.70	1515.41	0.75	242.85
10.0-11.0	46.34	291.42	7.43	46.70	57.0-58.0	4.53	1519.94	0.73	243.58
11.0-12.0	48.75	340.18	7.81	54.52	58.0-59.0	4.36	1524.31	0.70	244.28
12.0-13.0	50.68	390.86	8.12	62.64	59.0-60.0	4.20	1528.50	0.67	244.95
13.0-14.0	52.10	442.96	8.35	70.99	60.0-61.0	4.02	1532.53	0.64	245.60
14.0-15.0	52.99	495.95	8.49	79.48	61.0-62.0	3.84	1536.37	0.62	246.21
15.0-16.0	53.38	549.32	8.55	88.03	62.0-63.0	3.66	1540.03	0.59	246.80
16.0-17.0	53.30	602.63	8.54	96.57	63.0-64.0	3.47	1543.49	0.56	247.35
17.0-18.0	52.84	655.46	8.47	105.04	64.0-65.0	3.26	1546.75	0.52	247.88
18.0-19.0	52.05	707.51	8.34	113.38	65.0-66.0	3.05	1549.80	0.49	248.37
19.0-20.0	51.00	758.51	8.17	121.56	66.0-67.0	2.83	1552.63	0.45	248.82
20.0-21.0	49.74	808.24	7.97	129.53	67.0-68.0	2.61	1555.24	0.42	249.24
21.0-22.0	48.35	856.59	7.75	137.27	68.0-69.0	2.40	1557.64	0.38	249.62
22.0-23.0	46.88	903.47	7.51	144.79	69.0-70.0	2.19	1559.83	0.35	249.97
23.0-24.0	45.35	948.82	7.27	152.05	70.0-71.0	1.99	1561.82	0.32	250.29
24.0-25.0	43.77	992.60	7.01	159.07	71.0-72.0	1.81	1563.63	0.29	250.58
25.0-26.0	42.15	1034.74	6.75	165.82	72.0-73.0	1.66	1565.29	0.27	250.85
26.0-27.0	40.46	1075.21	6.48	172.31	73.0-74.0	1.53	1566.82	0.25	251.09
27.0-28.0	38.68	1113.89	6.20	178.51	74.0-75.0	1.43	1568.26	0.23	251.32
28.0-29.0	36.80	1150.69	5.90	184.40	75.0-76.0	1.36	1569.61	0.22	251.54
29.0-30.0	34.78	1185.47	5.57	189.98	76.0-77.0	1.30	1570.92	0.21	251.75
30.0-31.0	32.61	1218.08	5.23	195.20	77.0-78.0	1.25	1572.17	0.20	251.95
31.0-32.0	30.26	1248.34	4.85	200.05	78.0-79.0	1.20	1573.36	0.19	252.14
32.0-33.0	27.70	1276.04	4.44	204.49	79.0-80.0	1.15	1574.51	0.18	252.33
33.0-34.0	25.00	1301.04	4.01	208.50	80.0-81.0	1.11	1575.62	0.18	252.50
34.0-35.0	22.31	1323.35	3.58	212.08	81.0-82.0	1.06	1576.68	0.17	252.67
35.0-36.0	19.74	1343.09	3.16	215.24	82.0-83.0	1.03	1577.71	0.16	252.84
36.0-37.0	17.29	1360.38	2.77	218.01	83.0-84.0	0.99	1578.70	0.16	253.00
37.0-38.0	15.06	1375.45	2.41	220.42	84.0-85.0	0.96	1579.66	0.15	253.15
38.0-39.0	13.21	1388.66	2.12	222.54	85.0-86.0	0.92	1580.58	0.15	253.30
39.0-40.0	11.71	1400.37	1.88	224.42	86.0-87.0	0.89	1581.47	0.14	253.44
40.0-41.0	10.54	1410.91	1.69	226.11	87.0-88.0	0.87	1582.34	0.14	253.58
41.0-42.0	9.61	1420.52	1.54	227.65	88.0-89.0	0.84	1583.18	0.13	253.71
42.0-43.0	8.87	1429.40	1.42	229.07	89.0-90.0	0.82	1584.00	0.13	253.85
43.0-44.0	8.26	1437.66	1.32	230.39	90.0-91.0	0.80	1584.80	0.13	253.97
44.0-45.0	7.75	1445.40	1.24	231.64	91.0-92.0	0.79	1585.60	0.13	254.10
45.0-46.0	7.32	1452.72	1.17	232.81	92.0-93.0	0.79	1586.38	0.13	254.23
46.0-47.0	6.95	1459.67	1.11	233.92	93.0-94.0	0.79	1587.17	0.13	254.35

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## Zonal Flux Tabulation - (Cont.)

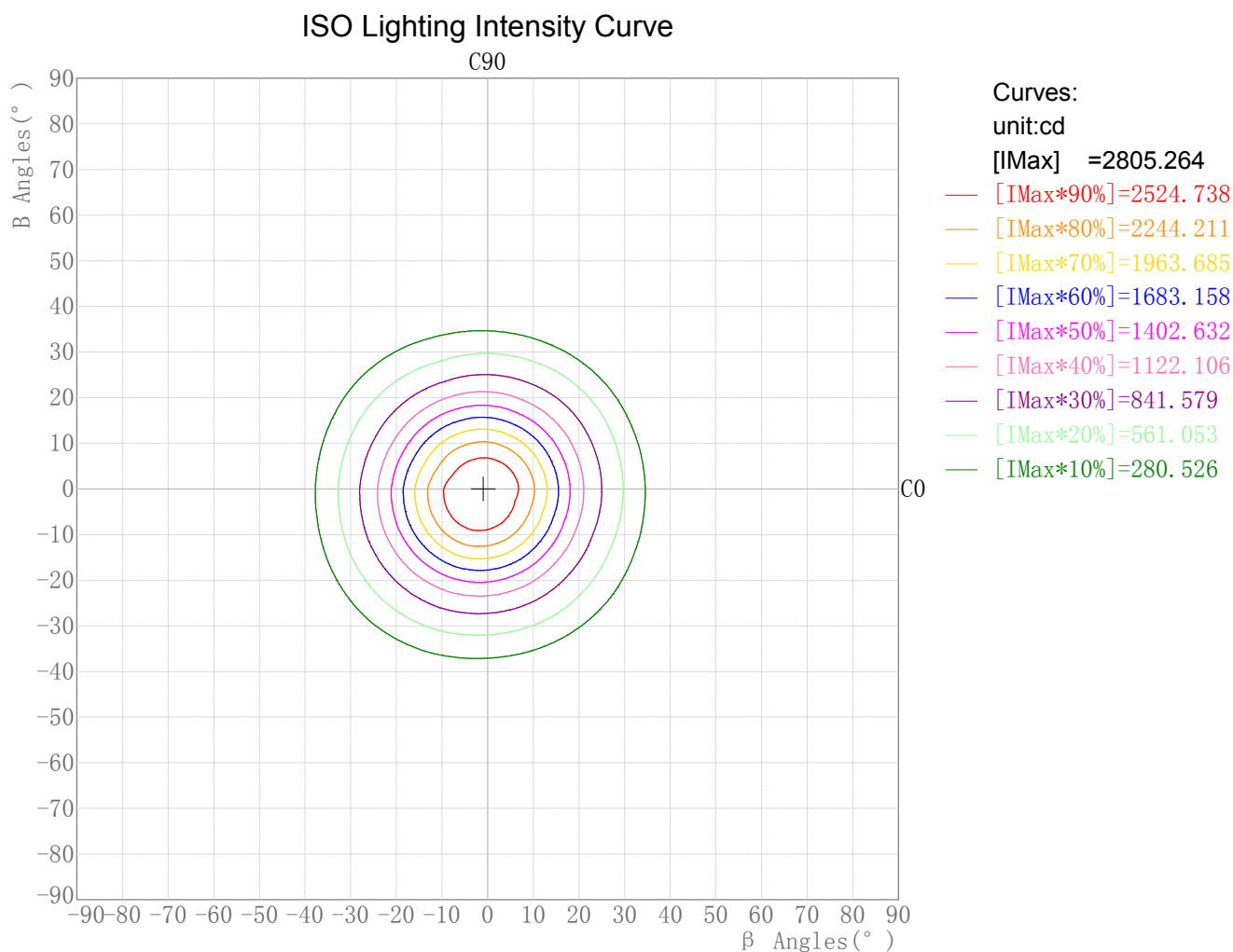
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.79	1587.96	0.13	254.48	141.0-142.0	0.50	1617.76	0.08	259.26
95.0-96.0	0.78	1588.74	0.12	254.61	142.0-143.0	0.49	1618.26	0.08	259.34
96.0-97.0	0.77	1589.50	0.12	254.73	143.0-144.0	0.49	1618.74	0.08	259.41
97.0-98.0	0.76	1590.26	0.12	254.85	144.0-145.0	0.48	1619.23	0.08	259.49
98.0-99.0	0.76	1591.02	0.12	254.97	145.0-146.0	0.48	1619.70	0.08	259.57
99.0-100.0	0.76	1591.78	0.12	255.09	146.0-147.0	0.47	1620.17	0.08	259.64
100.0-101.0	0.75	1592.53	0.12	255.21	147.0-148.0	0.46	1620.64	0.07	259.72
101.0-102.0	0.74	1593.27	0.12	255.33	148.0-149.0	0.46	1621.10	0.07	259.79
102.0-103.0	0.74	1594.01	0.12	255.45	149.0-150.0	0.45	1621.55	0.07	259.86
103.0-104.0	0.73	1594.74	0.12	255.57	150.0-151.0	0.44	1621.99	0.07	259.93
104.0-105.0	0.73	1595.47	0.12	255.68	151.0-152.0	0.43	1622.43	0.07	260.00
105.0-106.0	0.72	1596.19	0.12	255.80	152.0-153.0	0.42	1622.85	0.07	260.07
106.0-107.0	0.72	1596.91	0.12	255.91	153.0-154.0	0.41	1623.26	0.07	260.14
107.0-108.0	0.71	1597.62	0.11	256.03	154.0-155.0	0.40	1623.66	0.06	260.20
108.0-109.0	0.70	1598.31	0.11	256.14	155.0-156.0	0.39	1624.06	0.06	260.27
109.0-110.0	0.69	1599.00	0.11	256.25	156.0-157.0	0.38	1624.44	0.06	260.33
110.0-111.0	0.68	1599.69	0.11	256.36	157.0-158.0	0.37	1624.82	0.06	260.39
111.0-112.0	0.68	1600.36	0.11	256.47	158.0-159.0	0.36	1625.18	0.06	260.44
112.0-113.0	0.67	1601.03	0.11	256.58	159.0-160.0	0.35	1625.52	0.06	260.50
113.0-114.0	0.66	1601.69	0.11	256.68	160.0-161.0	0.33	1625.86	0.05	260.55
114.0-115.0	0.65	1602.35	0.10	256.79	161.0-162.0	0.32	1626.18	0.05	260.61
115.0-116.0	0.65	1602.99	0.10	256.89	162.0-163.0	0.31	1626.49	0.05	260.66
116.0-117.0	0.64	1603.64	0.10	256.99	163.0-164.0	0.29	1626.78	0.05	260.70
117.0-118.0	0.63	1604.27	0.10	257.09	164.0-165.0	0.28	1627.06	0.05	260.75
118.0-119.0	0.63	1604.90	0.10	257.20	165.0-166.0	0.27	1627.33	0.04	260.79
119.0-120.0	0.62	1605.52	0.10	257.29	166.0-167.0	0.25	1627.58	0.04	260.83
120.0-121.0	0.62	1606.14	0.10	257.39	167.0-168.0	0.23	1627.81	0.04	260.87
121.0-122.0	0.62	1606.75	0.10	257.49	168.0-169.0	0.21	1628.02	0.03	260.90
122.0-123.0	0.61	1607.36	0.10	257.59	169.0-170.0	0.20	1628.22	0.03	260.93
123.0-124.0	0.60	1607.96	0.10	257.69	170.0-171.0	0.18	1628.40	0.03	260.96
124.0-125.0	0.60	1608.56	0.10	257.78	171.0-172.0	0.16	1628.56	0.03	260.99
125.0-126.0	0.59	1609.15	0.09	257.88	172.0-173.0	0.14	1628.71	0.02	261.01
126.0-127.0	0.58	1609.73	0.09	257.97	173.0-174.0	0.13	1628.83	0.02	261.03
127.0-128.0	0.57	1610.30	0.09	258.06	174.0-175.0	0.11	1628.94	0.02	261.05
128.0-129.0	0.57	1610.87	0.09	258.15	175.0-176.0	0.09	1629.02	0.01	261.06
129.0-130.0	0.56	1611.43	0.09	258.24	176.0-177.0	0.07	1629.09	0.01	261.07
130.0-131.0	0.56	1611.99	0.09	258.33	177.0-178.0	0.05	1629.14	0.01	261.08
131.0-132.0	0.55	1612.54	0.09	258.42	178.0-179.0	0.03	1629.17	0.00	261.08
132.0-133.0	0.54	1613.08	0.09	258.51	179.0-180.0	0.01	1629.18	0.00	261.09
133.0-134.0	0.54	1613.62	0.09	258.59					
134.0-135.0	0.54	1614.16	0.09	258.68					
135.0-136.0	0.53	1614.69	0.09	258.76					
136.0-137.0	0.53	1615.21	0.08	258.85					
137.0-138.0	0.52	1615.73	0.08	258.93					
138.0-139.0	0.51	1616.25	0.08	259.01					
139.0-140.0	0.51	1616.76	0.08	259.10					
140.0-141.0	0.51	1617.26	0.08	259.18					

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## Rectangle ISO Lighting Intensity Diagram

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine:GON-2000	Test Date: 2023/05/10

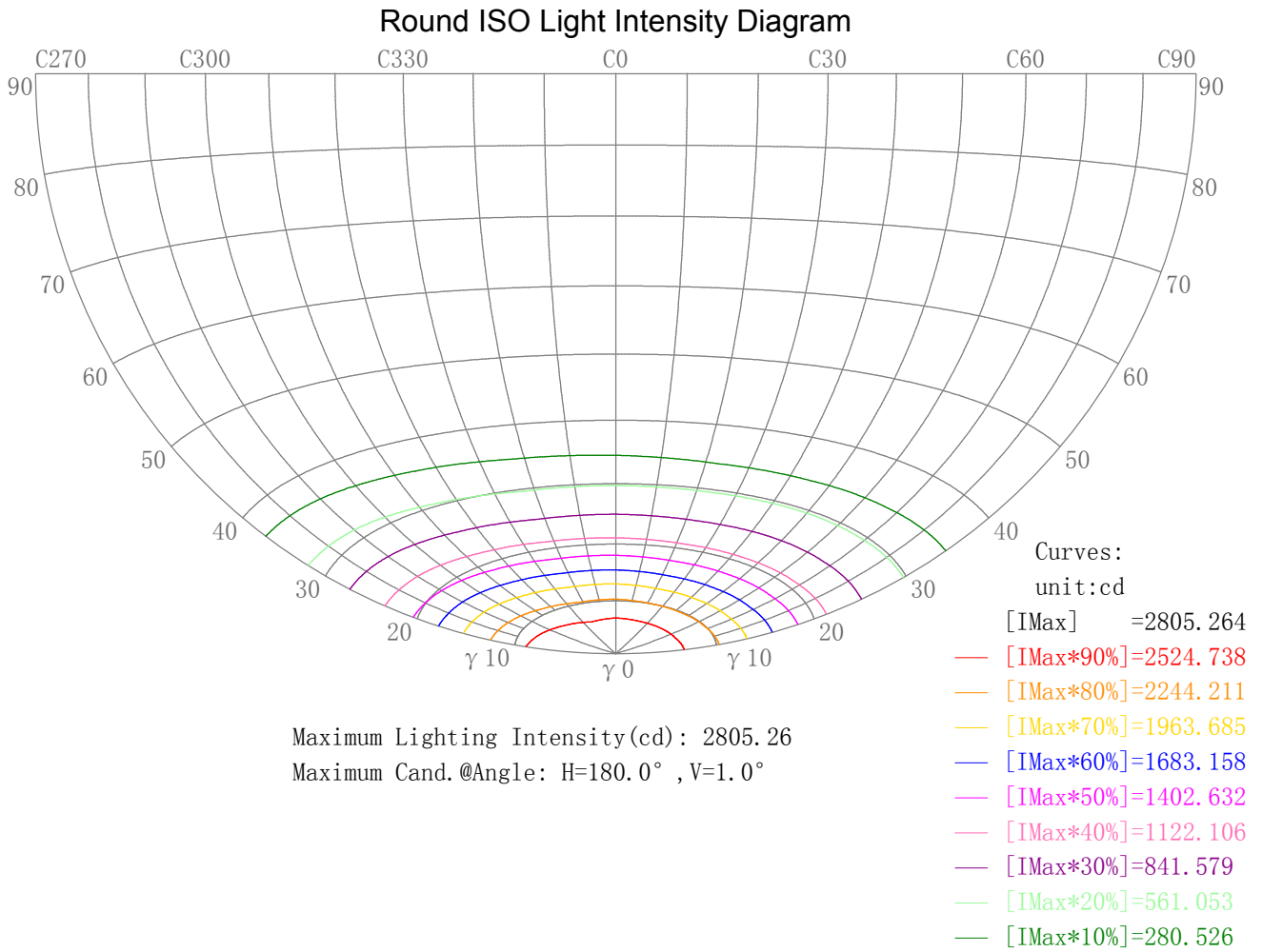


**IES Indoor Report**

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**Round ISO Lighting Intensity Diagram**

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine:GON-2000	Test Date: 2023/05/10



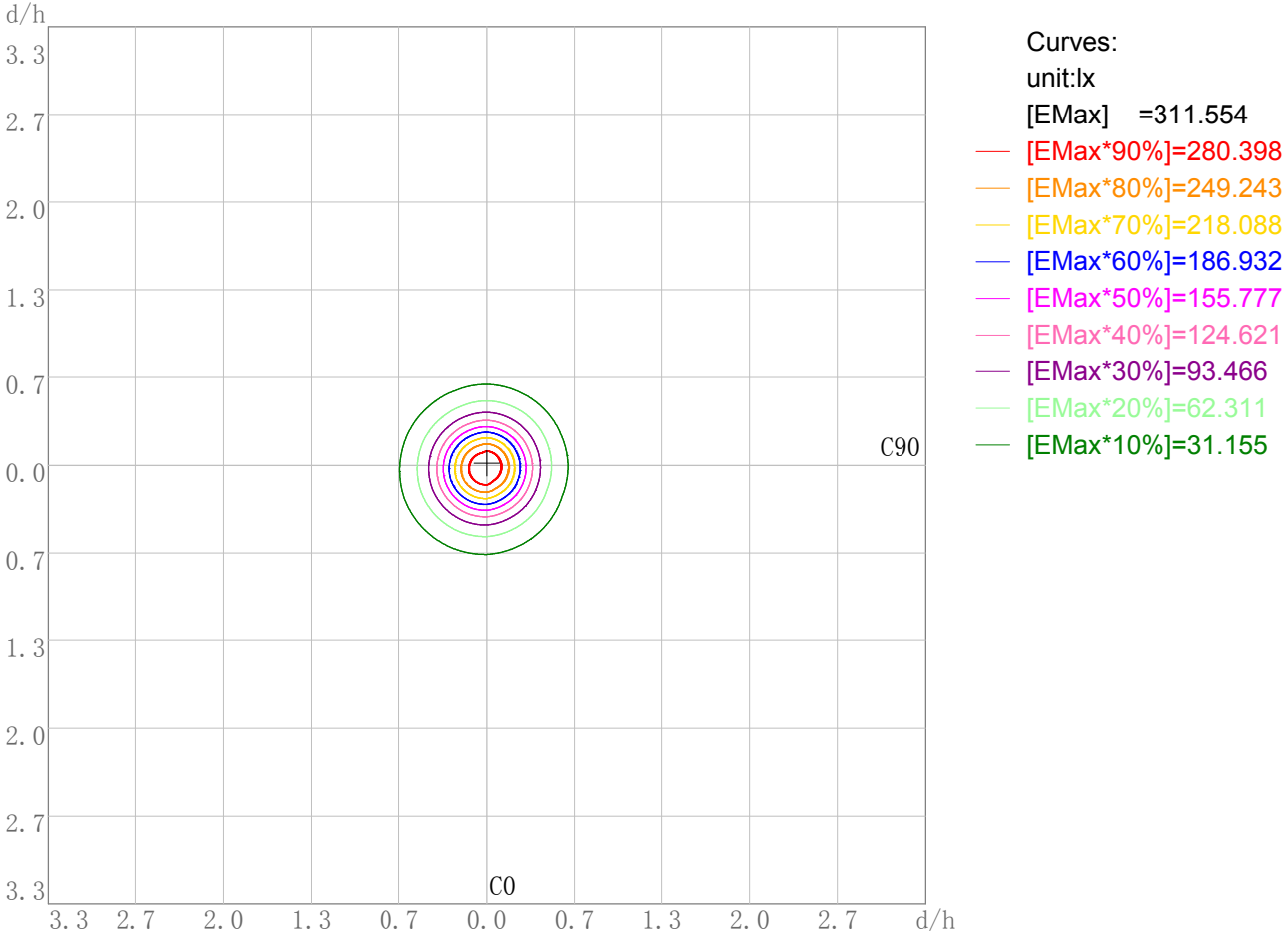
**IES Indoor Report**

**Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES**

**Plane ISO-Illuminance Diagram**

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine: GON-2000	Test Date: 2023/05/10

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 311.55  
 Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0



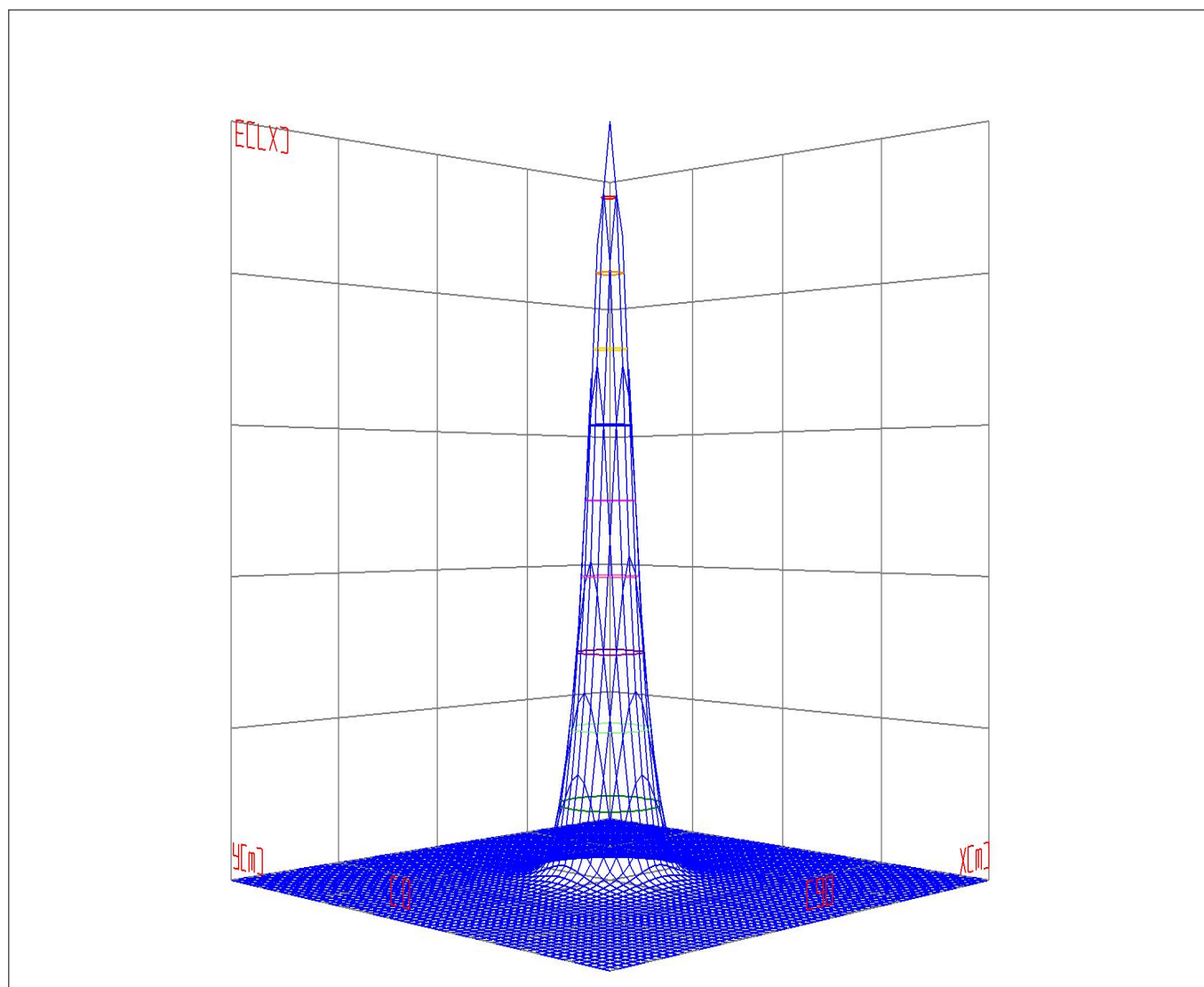
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## 3D Plane ISO Illuminance Diagram

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine: GON-2000	Test Date: 2023/05/10

### 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

# IES Indoor Report

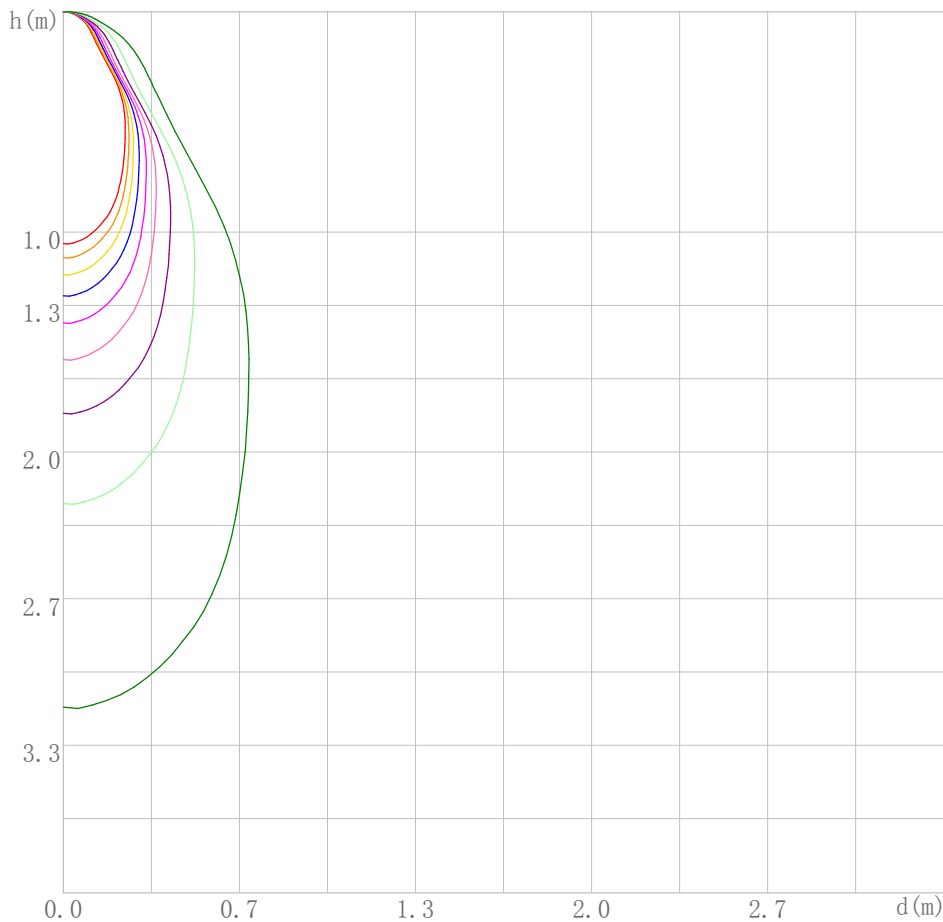
Photometric Filename: AD10104-20W-4000K-RA90-36D -WH-IES.IES

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## Space ISO Illuminance Diagram

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine: GON-2000	Test Date: 2023/05/10

### Space ISO Illuminance Curve



- Curves:  
[Unit: lx]  
[EMax] =2779.028
- [EMax\*90%]=2501.125
  - [EMax\*80%]=2223.222
  - [EMax\*70%]=1945.320
  - [EMax\*60%]=1667.417
  - [EMax\*50%]=1389.514
  - [EMax\*40%]=1111.611
  - [EMax\*30%]=833.708
  - [EMax\*20%]=555.806
  - [EMax\*10%]=277.903

Space Plane Maximum Illuminance and @Angle:2779.03lx,1.0deg  
Plane Maximum Lighting Intensity and @Angle:2780.298cd,0deg

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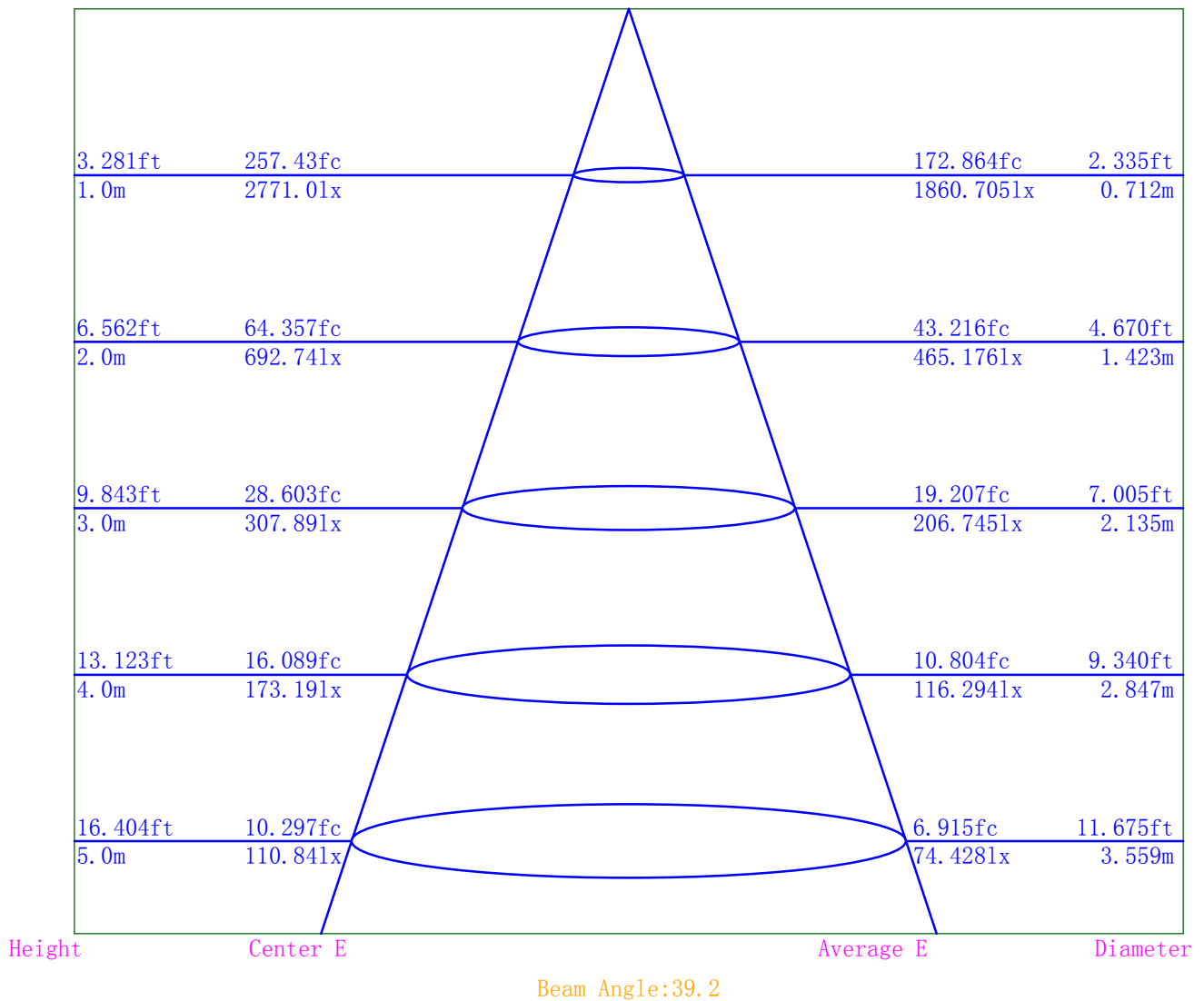
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Photometric Filename: AD10104-20W-4000K-RA90-36D -WH-IES.IES

## Illuminance-Distance Diagram

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine: GON-2000	Test Date: 2023/05/10

Illuminance-Distance Curve



**IES Indoor Report**

**Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES**

**Indoor Luminance Limiting Curves**

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine:GON-2000	Test Date: 2023/05/10

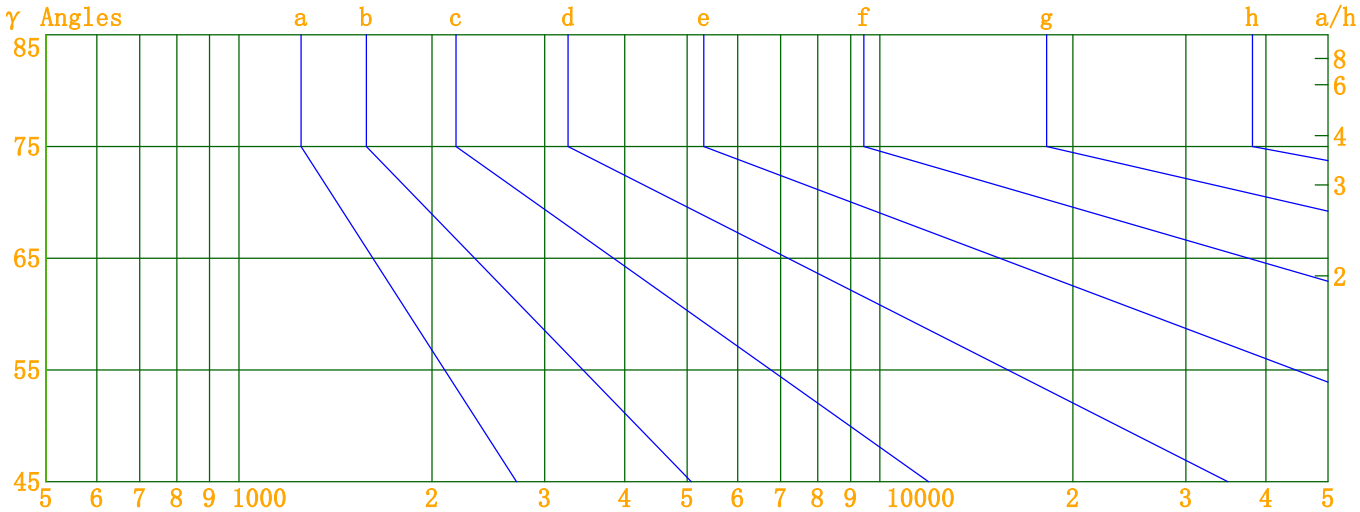
Glare Grade Table

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



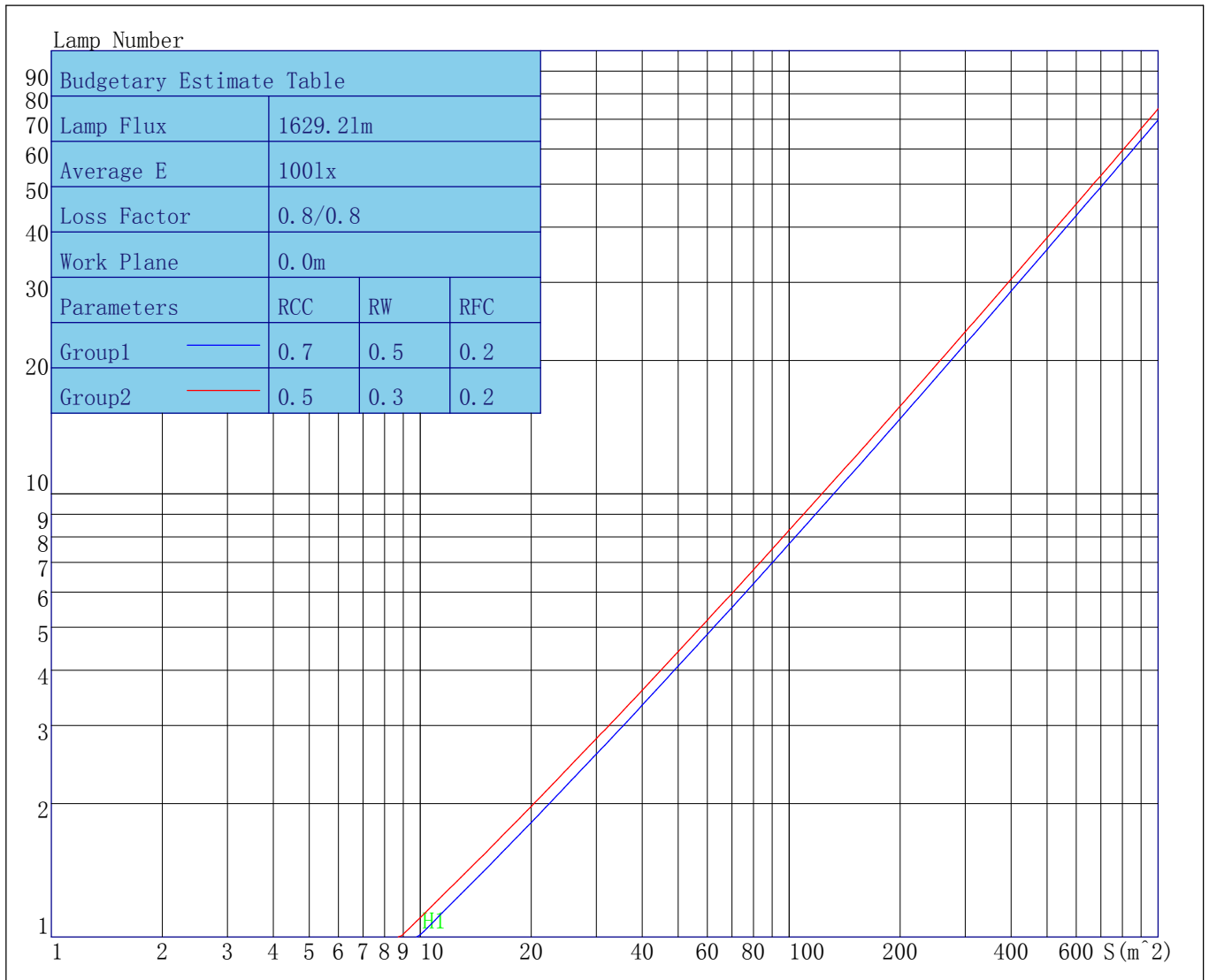
Luminous Size: Length(m)=-0.115 Width(m)=0.000 Height(m)=-0.115 Area(m^2)=0.000000  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

# IES Indoor Report

Photometric Filename: AD10104-20W-4000K-RA90-36D -WH-IES.IES

## Indoor Budgetary Estimate Table

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine: GON-2000	Test Date: 2023/05/10



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

# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES

## Indoor Coefficient of Utilization Table

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine:GON-2000	Test Date: 2023/05/10

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	309	309	309	309	301	301	301	301	286	286	286	272	272	272	260	260	260	254
1	294	286	279	273	286	280	274	268	268	263	258	257	253	249	247	244	241	236
2	279	266	255	246	272	261	251	242	251	243	236	242	236	230	234	229	224	219
3	265	248	235	224	259	244	232	222	236	226	218	229	220	213	222	215	209	205
4	252	232	218	207	247	229	215	205	222	211	202	216	207	199	211	202	196	192
5	240	218	203	192	235	215	201	191	210	198	189	205	194	186	200	191	184	180
6	229	206	191	180	224	203	189	179	199	186	177	195	184	175	191	181	173	170
7	218	195	179	169	215	193	178	168	189	176	167	185	174	165	182	172	164	160
8	209	185	170	159	205	183	169	159	180	167	158	176	165	157	173	163	155	152
9	200	176	161	151	197	174	160	150	171	158	149	168	157	149	166	155	148	144
10	192	167	153	143	189	166	152	143	163	151	142	161	149	141	159	148	141	137

# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES

## Unified Glare Rating Table

Lum. Name: AD10104-20W-4000K-RA90-36D -WH-IES	Lum. Catalog: Down Light	Test ID:
Lamp Name: 1204C4-403H5M3-F1	Lamp Catalog: COB	Test Lab: Test
Manufacture: -	Test Machine:GON-2000	Test Date: 2023/05/10

## 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	-3.8	-1.9	-3.4	-1.6	-1.2	-3.8	-1.9	-3.4	-1.6	-1.2
	Y=3H	-4.0	-2.2	-3.6	-1.9	-1.4	-4.0	-2.2	-3.6	-1.9	-1.4
	Y=4H	-4.1	-2.4	-3.7	-2.0	-1.6	-4.1	-2.4	-3.7	-2.0	-1.6
	Y=6H	-4.2	-2.5	-3.8	-2.1	-1.7	-4.2	-2.5	-3.8	-2.1	-1.7
	Y=8H	-4.3	-2.6	-3.8	-2.2	-1.7	-4.3	-2.6	-3.8	-2.2	-1.7
	Y=12H	-4.3	-2.7	-3.9	-2.3	-1.8	-4.3	-2.7	-3.9	-2.3	-1.8
X=4H	Y=2H	-4.1	-2.4	-3.7	-2.0	-1.6	-4.1	-2.4	-3.7	-2.0	-1.6
	Y=3H	-4.4	-2.7	-3.9	-2.3	-1.9	-4.4	-2.7	-3.9	-2.3	-1.9
	Y=4H	-4.5	-2.9	-4.0	-2.5	-2.0	-4.5	-2.9	-4.0	-2.5	-2.0
	Y=6H	-4.6	-3.1	-4.2	-2.7	-2.2	-4.6	-3.1	-4.2	-2.7	-2.2
	Y=8H	-4.7	-3.2	-4.2	-2.7	-2.2	-4.7	-3.2	-4.2	-2.7	-2.2
	Y=12H	-4.8	-3.3	-4.3	-2.8	-2.3	-4.8	-3.3	-4.3	-2.8	-2.3
X=8H	Y=4H	-4.7	-3.2	-4.2	-2.7	-2.2	-4.7	-3.2	-4.2	-2.7	-2.2
	Y=6H	-4.9	-3.5	-4.4	-3.0	-2.1	-4.9	-3.5	-4.4	-3.0	-2.1
	Y=8H	-5.0	-3.6	-4.5	-3.1	-2.6	-5.0	-3.6	-4.5	-3.1	-2.6
	Y=12H	-5.1	-3.7	-4.6	-3.2	-2.7	-5.1	-3.7	-4.6	-3.2	-2.7
X=12H	Y=4H	-4.8	-3.3	-4.3	-2.8	-2.3	-4.8	-3.3	-4.3	-2.8	-2.3
	Y=6H	-5.0	-3.5	-4.5	-3.1	-2.5	-5.0	-3.5	-4.5	-3.1	-2.5
	Y=8H	-5.1	-3.7	-4.6	-3.2	-2.7	-5.1	-3.7	-4.6	-3.2	-2.7
Variations with the objverger 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:	BKO					BKO					
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:AD10104-20W-4000K-RA90-36D -WH-IES.IES

## Candela Tabulation

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
$\gamma$ 0.0	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97	2770.97
$\gamma$ 1.0	2780.30	2774.00	2767.07	2759.26	2758.00	2752.58	2751.57	2748.30	2805.26	2797.50	2789.52	2781.00
$\gamma$ 2.0	2757.49	2750.57	2744.94	2738.14	2737.08	2738.03	2741.90	2744.53	2805.08	2798.33	2790.81	2781.67
$\gamma$ 3.0	2727.75	2718.49	2711.13	2708.27	2708.95	2716.25	2723.11	2729.85	2795.00	2791.57	2786.32	2775.63
$\gamma$ 4.0	2690.24	2676.75	2668.94	2667.01	2674.21	2683.95	2696.34	2705.58	2776.09	2776.71	2773.91	2759.98
$\gamma$ 5.0	2640.36	2624.94	2617.52	2616.63	2630.75	2641.38	2660.33	2674.57	2749.75	2754.09	2750.75	2735.26
$\gamma$ 6.0	2580.96	2565.25	2558.47	2558.00	2574.95	2590.04	2616.18	2636.37	2716.03	2723.24	2718.76	2704.41
$\gamma$ 7.0	2513.21	2496.90	2491.55	2490.33	2510.37	2532.03	2563.58	2590.81	2676.53	2683.93	2681.76	2665.69
$\gamma$ 8.0	2437.02	2420.04	2414.02	2413.56	2438.69	2465.76	2501.90	2535.94	2627.99	2636.45	2635.42	2620.66
$\gamma$ 9.0	2352.71	2335.68	2326.47	2329.42	2358.81	2391.17	2432.76	2471.09	2568.63	2581.08	2581.99	2567.14
$\gamma$ 10.0	2271.64	2244.52	2232.63	2238.85	2269.79	2306.94	2357.17	2398.17	2499.78	2517.23	2521.50	2503.53
$\gamma$ 11.0	2179.90	2145.18	2135.25	2141.04	2173.31	2215.72	2272.88	2318.46	2424.92	2445.60	2449.48	2430.75
$\gamma$ 12.0	2076.58	2041.22	2031.93	2036.45	2072.49	2119.29	2182.82	2234.08	2344.61	2366.41	2370.01	2349.53
$\gamma$ 13.0	1969.48	1933.37	1924.39	1929.71	1969.90	2017.03	2087.39	2145.39	2258.08	2279.95	2283.64	2260.94
$\gamma$ 14.0	1858.08	1820.41	1812.59	1819.05	1864.23	1912.74	1987.66	2050.44	2164.06	2186.62	2190.97	2163.56
$\gamma$ 15.0	1743.54	1706.29	1698.56	1707.11	1754.96	1805.62	1881.94	1948.73	2063.41	2087.34	2091.37	2059.59
$\gamma$ 16.0	1628.08	1593.94	1585.98	1595.99	1645.07	1697.27	1773.37	1843.47	1956.80	1982.95	1983.36	1952.92
$\gamma$ 17.0	1514.83	1483.45	1476.22	1489.82	1536.01	1588.40	1665.31	1736.20	1846.88	1874.94	1871.30	1840.11
$\gamma$ 18.0	1409.19	1378.77	1374.03	1385.80	1431.39	1481.78	1557.45	1628.16	1736.87	1764.23	1758.62	1727.27
$\gamma$ 19.0	1310.57	1281.62	1277.31	1287.34	1331.76	1378.32	1451.72	1522.65	1626.77	1652.24	1646.74	1615.66
$\gamma$ 20.0	1215.34	1190.86	1187.37	1196.25	1236.05	1278.35	1350.26	1419.25	1517.49	1541.99	1535.97	1505.69
$\gamma$ 21.0	1126.85	1106.08	1104.24	1112.14	1145.64	1184.20	1252.98	1317.92	1413.64	1435.00	1429.88	1402.26
$\gamma$ 22.0	1046.51	1028.26	1028.03	1033.58	1062.35	1095.72	1160.47	1221.98	1313.74	1334.29	1329.41	1304.66
$\gamma$ 23.0	974.09	956.94	958.00	961.19	985.71	1011.48	1073.72	1133.38	1219.70	1239.63	1234.61	1212.26
$\gamma$ 24.0	906.14	891.05	893.68	893.79	913.45	932.37	993.66	1051.45	1134.60	1151.67	1146.53	1124.27
$\gamma$ 25.0	842.05	829.80	832.29	829.65	844.76	857.89	918.39	975.95	1053.35	1070.18	1065.79	1043.88
$\gamma$ 26.0	781.45	770.64	772.50	768.59	780.08	788.33	848.46	906.25	979.37	994.74	990.12	968.74
$\gamma$ 27.0	722.55	711.92	713.31	709.56	718.99	722.20	783.25	840.60	909.34	924.57	919.39	899.75
$\gamma$ 28.0	663.22	652.69	654.66	650.39	660.07	659.70	720.77	778.77	843.60	858.66	853.92	835.22
$\gamma$ 29.0	603.13	593.61	595.41	592.03	602.34	600.51	660.53	719.92	781.92	796.45	791.85	774.03
$\gamma$ 30.0	544.91	534.70	534.90	532.75	545.10	543.51	602.19	662.51	722.84	737.15	732.63	715.02
$\gamma$ 31.0	487.81	475.91	473.02	469.70	487.56	488.77	546.09	605.97	663.80	678.87	675.13	656.53
$\gamma$ 32.0	432.20	410.00	404.27	407.23	429.52	436.60	492.37	549.66	605.53	620.07	616.11	599.29
$\gamma$ 33.0	369.14	342.17	335.67	344.65	370.65	385.09	441.54	493.94	547.69	561.66	557.71	543.62
$\gamma$ 34.0	307.02	284.11	281.66	290.09	312.80	331.08	388.24	440.14	492.55	503.93	501.66	489.88
$\gamma$ 35.0	256.42	239.99	236.70	242.93	263.24	284.05	330.72	386.26	438.98	448.52	449.12	435.81
$\gamma$ 36.0	218.45	206.33	202.29	207.02	224.33	241.94	281.48	329.34	382.65	395.23	394.81	382.97
$\gamma$ 37.0	189.04	179.59	176.54	180.02	193.02	206.89	239.31	277.33	319.93	336.83	334.38	319.73
$\gamma$ 38.0	165.75	158.94	156.21	158.84	167.87	179.37	203.82	235.96	268.04	280.16	281.32	269.62
$\gamma$ 39.0	148.62	142.70	139.92	141.74	148.41	157.81	177.28	202.38	223.90	235.59	233.97	225.47
$\gamma$ 40.0	134.39	129.40	126.81	128.50	133.44	140.23	156.31	176.04	190.78	199.44	198.04	190.86
$\gamma$ 41.0	122.94	118.22	115.91	117.35	121.31	126.82	139.49	155.96	166.03	171.83	171.90	166.04
$\gamma$ 42.0	113.17	108.72	106.90	108.49	111.55	115.61	126.05	140.50	146.76	151.47	151.42	146.73
$\gamma$ 43.0	104.67	100.47	99.27	100.97	103.17	106.64	115.33	127.90	131.49	135.32	134.71	130.77
$\gamma$ 44.0	97.63	93.92	92.85	94.38	96.00	99.13	106.66	117.36	119.18	122.01	121.01	117.85
$\gamma$ 45.0	91.34	88.27	87.04	88.38	90.19	92.77	99.39	108.65	108.90	111.20	110.52	107.95
$\gamma$ 46.0	86.12	83.06	81.92	83.48	85.08	87.44	93.26	101.19	100.58	102.33	101.50	99.29



# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES

## Candela Tabulation - (Cont.)

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
γ 47.0	81.50	78.53	77.45	79.24	80.46	82.97	87.89	95.02	93.25	94.65	93.66	92.11
γ 48.0	77.11	74.47	73.38	75.03	76.52	78.86	83.46	89.66	86.43	88.11	87.00	85.47
γ 49.0	73.27	70.77	69.83	71.20	72.94	75.08	79.39	84.94	80.94	82.19	81.06	79.64
γ 50.0	70.03	67.49	66.18	68.00	69.57	71.66	75.57	80.79	75.79	76.71	75.62	74.90
γ 51.0	66.74	64.48	63.32	65.12	66.92	69.00	72.49	76.89	71.47	71.96	71.29	70.34
γ 52.0	63.59	61.44	60.53	62.33	64.26	66.15	69.47	73.54	67.73	68.00	67.33	66.39
γ 53.0	60.63	58.65	58.02	59.49	61.47	63.23	66.85	70.40	64.06	64.52	63.89	62.63
γ 54.0	58.08	56.08	55.71	56.86	58.94	60.81	64.34	67.37	60.69	61.13	60.69	59.58
γ 55.0	55.55	53.65	53.12	54.56	56.57	58.52	61.98	64.73	57.41	58.01	57.64	56.65
γ 56.0	52.86	51.22	50.71	52.23	54.31	56.09	59.48	62.28	54.84	55.12	55.00	53.42
γ 57.0	50.61	48.78	48.40	50.02	51.85	53.83	56.75	59.65	52.32	52.43	52.33	50.93
γ 58.0	48.23	46.54	45.94	47.77	49.35	51.78	54.66	57.35	49.56	49.81	49.49	48.40
γ 59.0	46.05	44.28	43.75	45.29	46.94	49.44	52.35	55.15	47.35	47.44	46.89	46.14
γ 60.0	43.58	42.07	41.73	43.10	44.76	47.09	50.26	52.92	44.97	45.20	44.62	43.71
γ 61.0	41.51	39.97	39.37	40.82	42.68	44.92	48.24	50.76	42.79	42.66	42.39	41.34
γ 62.0	39.20	37.68	37.08	38.53	40.46	42.77	45.76	48.36	40.41	40.05	40.24	39.06
γ 63.0	37.09	35.54	34.95	36.40	38.17	40.58	43.33	45.81	38.15	37.34	37.93	37.01
γ 64.0	34.55	33.40	32.73	33.94	35.62	38.17	41.03	43.50	35.79	34.78	35.50	35.01
γ 65.0	32.41	31.03	30.41	31.08	32.88	35.75	38.76	41.19	33.07	31.99	33.41	32.47
γ 66.0	30.28	28.71	28.23	28.87	29.74	32.95	36.17	38.64	31.27	28.82	31.07	30.50
γ 67.0	27.74	26.40	25.81	26.34	26.56	30.60	33.47	36.07	28.61	25.86	28.69	28.17
γ 68.0	25.71	24.20	23.60	23.97	24.18	27.83	30.79	33.23	26.04	22.76	26.45	26.05
γ 69.0	23.77	22.46	21.97	21.83	22.24	25.42	28.17	30.29	23.54	19.80	24.03	23.43
γ 70.0	21.95	20.54	20.01	20.10	20.46	22.86	25.67	27.51	21.00	17.59	21.50	21.17
γ 71.0	20.05	19.13	18.69	18.40	18.84	20.63	23.05	24.90	18.20	15.54	19.14	19.00
γ 72.0	18.94	18.32	18.35	17.51	17.67	18.83	20.72	22.36	15.67	13.65	16.79	16.66
γ 73.0	18.22	17.56	17.25	16.49	16.78	17.86	18.94	20.01	13.56	11.94	14.61	14.88
γ 74.0	17.58	16.86	16.57	15.91	16.05	17.18	17.99	18.49	11.44	10.45	12.24	12.47
γ 75.0	16.68	16.12	15.92	15.08	15.48	16.65	17.16	17.59	10.31	9.55	10.60	10.94
γ 76.0	15.95	15.34	15.05	14.49	15.02	15.84	16.33	16.89	9.68	9.21	9.77	10.47
γ 77.0	15.34	14.58	14.78	13.79	14.42	15.14	15.55	16.36	9.40	8.75	9.28	9.84
γ 78.0	14.78	14.05	14.31	13.28	13.59	14.52	15.01	15.61	8.82	8.28	8.61	9.57
γ 79.0	13.97	13.42	13.47	12.92	12.98	13.73	14.42	14.75	8.29	7.93	8.36	8.95
γ 80.0	13.60	12.87	12.88	12.20	12.44	13.26	13.76	14.23	8.19	7.60	8.02	8.56
γ 81.0	13.18	12.46	12.39	11.86	11.90	12.80	13.28	13.59	7.57	7.34	7.63	8.06
γ 82.0	12.37	11.92	11.89	11.23	11.45	12.26	13.02	12.93	7.48	7.13	7.19	7.67
γ 83.0	12.13	11.36	11.40	10.91	11.19	11.96	12.66	12.57	6.93	6.91	6.89	7.21
γ 84.0	11.54	10.83	10.90	10.84	10.89	11.21	12.38	12.09	6.88	6.79	6.52	7.11
γ 85.0	10.94	10.50	10.36	10.42	10.58	10.88	11.26	11.60	6.39	6.61	6.16	6.86
γ 86.0	10.50	10.10	10.05	9.99	10.30	10.15	10.81	11.23	6.29	6.27	5.96	6.97
γ 87.0	10.22	9.64	9.72	9.78	9.87	9.98	10.78	10.91	6.26	6.01	5.99	6.45
γ 88.0	9.99	9.43	9.41	9.61	9.46	9.74	10.23	10.43	5.92	5.84	5.93	6.16
γ 89.0	9.59	9.29	9.13	9.09	9.18	9.51	9.78	10.09	5.93	5.74	5.85	5.90
γ 90.0	9.72	9.06	9.16	8.88	9.06	9.28	9.48	9.80	5.64	5.69	5.64	5.36
γ 91.0	9.30	8.94	9.05	8.78	9.03	9.25	9.31	9.40	5.41	5.64	5.28	5.37
γ 92.0	9.09	8.90	9.03	8.63	8.94	9.04	9.06	9.10	5.44	5.54	5.18	5.40
γ 93.0	9.03	8.74	8.93	8.74	8.76	9.06	8.83	9.01	5.49	5.49	5.39	5.64

# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES

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## Candela Tabulation - (Cont.)

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
γ 94.0	8.94	8.49	8.96	8.53	8.60	8.83	8.85	8.95	5.62	5.54	5.48	5.36
γ 95.0	8.93	8.52	8.56	8.63	8.48	8.74	8.77	8.70	5.68	5.52	5.47	5.79
γ 96.0	8.50	8.54	8.44	8.54	8.38	8.63	8.58	8.40	5.53	5.55	5.41	5.63
γ 97.0	8.45	8.26	8.35	8.16	8.31	8.56	8.50	8.15	5.84	5.62	5.49	5.63
γ 98.0	8.44	8.27	8.14	7.93	8.32	8.37	8.33	8.17	5.91	5.62	5.55	5.70
γ 99.0	8.22	8.33	8.03	7.96	8.25	8.23	8.24	8.24	5.90	5.69	5.55	5.97
γ 100.0	8.21	8.09	8.03	7.72	7.91	7.96	8.34	8.09	5.91	5.70	5.67	6.29
γ 101.0	8.08	7.93	8.27	7.55	7.61	7.92	7.87	7.87	6.02	5.91	5.79	5.78
γ 102.0	7.89	7.94	8.05	7.64	7.60	8.04	7.92	7.87	6.12	5.97	5.98	5.86
γ 103.0	7.98	7.86	7.99	7.50	7.71	7.84	8.08	7.77	6.42	5.78	5.91	6.09
γ 104.0	7.75	7.75	7.96	7.70	7.66	7.60	7.78	7.58	6.23	5.66	5.89	6.07
γ 105.0	7.80	7.56	7.76	7.30	7.59	7.64	7.69	7.69	6.28	5.82	5.82	5.96
γ 106.0	7.79	7.74	7.75	7.37	7.46	7.53	7.47	7.76	6.15	5.90	5.99	6.12
γ 107.0	7.51	7.57	7.48	7.34	7.36	7.49	7.75	7.55	6.05	6.00	6.07	6.04
γ 108.0	7.39	7.39	7.58	7.09	7.35	7.66	7.57	7.30	6.36	6.02	5.88	6.06
γ 109.0	7.03	7.36	7.47	7.06	7.20	7.42	7.41	7.21	6.22	5.90	5.69	6.18
γ 110.0	7.54	7.22	7.46	7.10	7.35	7.32	7.46	7.24	6.22	5.96	6.07	5.96
γ 111.0	7.17	6.96	7.36	6.82	7.40	7.21	7.32	7.05	6.34	6.14	6.14	5.89
γ 112.0	6.98	6.87	7.32	6.84	7.11	7.20	7.34	7.09	6.35	6.08	6.17	6.29
γ 113.0	7.06	6.89	7.27	6.88	6.88	7.14	6.94	7.20	6.29	5.91	6.16	6.11
γ 114.0	6.88	6.69	7.27	6.80	6.72	7.14	7.02	7.08	6.35	5.85	6.39	6.28
γ 115.0	6.79	6.72	7.33	6.69	6.87	6.97	6.94	7.02	6.41	5.91	6.03	6.29
γ 116.0	6.96	6.63	7.29	6.71	6.91	6.87	6.87	7.08	6.39	6.06	5.95	6.44
γ 117.0	6.98	6.70	7.10	6.74	6.74	6.99	6.87	7.22	6.26	5.99	6.01	6.05
γ 118.0	6.90	6.70	7.06	6.60	6.82	6.76	7.05	7.07	6.27	6.07	6.05	6.14
γ 119.0	7.15	6.74	7.18	6.45	6.86	6.93	6.75	6.81	6.19	6.07	6.28	6.11
γ 120.0	6.94	6.61	7.03	6.49	6.96	6.88	6.71	7.03	6.37	5.94	6.27	6.08
γ 121.0	6.87	6.62	7.17	6.59	7.03	6.96	6.86	7.11	6.37	5.94	6.26	6.21
γ 122.0	7.03	6.73	7.05	6.58	6.91	6.80	6.71	6.86	6.68	6.19	6.35	6.72
γ 123.0	6.93	6.73	6.90	6.32	6.83	6.84	6.70	6.77	6.78	6.32	6.26	6.32
γ 124.0	7.01	6.85	6.99	6.36	6.71	6.86	6.66	6.95	6.85	6.32	6.45	6.30
γ 125.0	6.82	7.01	7.10	6.37	6.65	6.73	6.67	6.89	6.72	6.40	6.59	6.43
γ 126.0	7.19	6.94	6.87	6.42	6.70	6.92	6.64	6.85	6.52	6.41	6.44	6.35
γ 127.0	6.91	6.84	6.79	6.36	6.71	6.86	6.85	7.02	6.80	6.23	6.30	6.43
γ 128.0	7.04	6.79	6.79	6.63	6.72	6.89	6.80	6.88	6.82	6.32	6.29	6.42
γ 129.0	7.03	6.78	6.92	6.55	6.77	6.89	6.63	6.80	6.62	6.46	6.45	6.69
γ 130.0	6.91	7.02	6.97	6.48	6.79	6.91	6.72	6.78	6.54	6.47	6.34	6.65
γ 131.0	7.03	7.09	7.04	6.52	6.95	7.06	6.85	6.70	6.71	6.51	6.24	6.48
γ 132.0	6.88	7.01	7.31	6.42	6.93	6.97	6.81	6.75	6.69	6.54	6.08	6.49
γ 133.0	6.86	7.03	7.17	6.87	6.89	6.94	6.75	6.81	6.88	6.63	6.26	6.47
γ 134.0	7.04	7.09	7.30	6.90	6.78	7.16	6.72	6.87	6.74	6.93	6.43	6.49
γ 135.0	7.18	7.03	7.35	6.93	6.78	7.14	6.82	6.87	6.69	7.07	6.49	6.49
γ 136.0	7.27	7.13	7.38	6.84	7.06	7.14	7.08	6.84	6.63	6.93	6.49	6.78
γ 137.0	7.55	7.30	7.43	6.97	6.95	7.10	7.06	6.97	6.97	6.91	6.53	6.82
γ 138.0	7.38	7.47	7.30	7.28	6.84	7.20	6.90	7.06	6.89	6.91	6.66	6.89
γ 139.0	7.46	7.37	7.60	7.22	7.01	7.52	7.28	7.09	7.13	7.02	6.78	6.73
γ 140.0	7.20	7.32	7.76	7.17	7.21	7.63	7.30	7.15	7.32	7.10	6.71	6.87

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## Candela Tabulation - (Cont.)

V/H	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5	C225.0	C247.5
γ 141.0	7.77	7.47	7.87	7.28	7.39	7.47	7.24	7.30	7.30	7.16	7.01	6.93
γ 142.0	8.01	7.51	7.75	7.39	7.44	7.48	7.26	7.28	7.14	7.12	7.11	7.08
γ 143.0	8.04	7.59	7.87	7.55	7.50	7.72	7.12	7.39	7.51	7.07	7.16	7.16
γ 144.0	7.93	7.75	7.90	7.64	7.70	7.62	7.35	7.45	7.52	7.06	7.22	7.33
γ 145.0	8.01	7.95	8.06	7.68	7.74	7.85	7.71	7.40	7.62	7.23	7.36	7.29
γ 146.0	8.17	8.16	7.93	7.68	7.68	8.16	7.73	7.50	7.48	7.39	7.47	7.43
γ 147.0	8.09	8.47	8.15	7.92	7.87	8.22	7.60	7.66	7.82	7.40	7.70	7.50
γ 148.0	8.24	8.45	8.36	7.90	8.13	8.14	7.80	7.85	7.89	7.57	7.74	7.61
γ 149.0	8.32	8.41	8.43	8.20	8.42	8.26	7.77	8.11	8.02	7.85	7.90	7.64
γ 150.0	8.46	8.79	8.56	8.14	8.69	8.29	8.00	8.26	7.88	7.88	7.98	7.91
γ 151.0	8.77	8.89	8.69	8.30	8.52	8.51	8.11	8.21	7.99	7.67	8.10	8.10
γ 152.0	8.55	8.76	8.88	8.37	8.37	8.56	8.19	8.42	8.28	7.70	8.00	8.19
γ 153.0	8.83	8.84	8.88	8.48	8.45	8.55	8.20	8.46	8.49	7.99	8.12	8.30
γ 154.0	9.04	8.86	8.83	8.56	8.62	9.02	8.52	8.34	8.41	8.01	8.10	8.04
γ 155.0	9.15	9.01	8.73	8.77	8.79	8.94	8.66	8.45	8.65	8.16	8.44	8.53
γ 156.0	9.16	9.10	9.16	8.87	8.97	9.10	8.66	8.55	8.60	8.52	8.41	8.70
γ 157.0	9.46	9.08	9.07	9.02	9.09	8.98	8.78	8.67	8.79	8.61	8.82	8.60
γ 158.0	9.61	9.07	9.46	8.77	9.14	9.22	9.04	8.98	8.86	8.71	8.96	8.71
γ 159.0	9.48	9.32	9.36	9.05	9.36	9.26	8.97	9.19	8.91	8.96	9.08	8.53
γ 160.0	9.43	9.48	9.53	9.13	9.46	9.20	9.27	9.24	8.69	9.05	9.12	8.83
γ 161.0	9.50	9.48	9.50	9.25	9.41	9.59	9.21	9.13	9.03	9.07	8.93	8.72
γ 162.0	9.69	9.65	9.51	9.60	9.49	9.48	9.34	9.02	9.11	9.13	9.10	8.98
γ 163.0	9.91	9.91	9.64	9.51	9.60	9.43	9.46	9.21	8.86	9.54	9.27	8.96
γ 164.0	9.89	9.81	9.73	9.58	9.84	9.43	9.72	9.38	9.01	9.74	9.61	9.19
γ 165.0	9.84	9.70	9.91	9.74	9.84	9.70	9.71	9.51	9.24	9.52	9.67	9.31
γ 166.0	10.08	9.81	9.91	9.93	9.65	10.01	9.87	9.46	9.52	9.55	9.75	9.24
γ 167.0	9.92	10.01	10.38	10.06	9.73	9.85	9.82	9.43	9.42	9.68	9.77	9.47
γ 168.0	9.92	10.20	10.18	10.18	9.87	9.81	9.73	9.57	9.61	9.77	9.90	9.35
γ 169.0	10.21	10.34	10.23	10.35	9.95	9.99	9.68	9.67	9.55	9.75	9.86	9.43
γ 170.0	9.94	10.39	10.15	10.49	9.94	9.84	9.74	9.68	9.73	9.73	9.94	9.91
γ 171.0	10.22	10.32	10.28	10.21	9.85	10.13	9.78	9.77	9.81	9.88	9.95	9.82
γ 172.0	10.02	10.41	10.45	10.08	9.86	10.04	10.06	9.78	10.01	9.85	10.22	10.09
γ 173.0	10.12	10.37	10.27	10.25	10.08	10.19	10.14	9.73	9.84	10.00	10.06	10.11
γ 174.0	10.00	10.34	9.97	10.30	10.20	10.03	10.04	9.81	9.92	10.29	10.18	10.13
γ 175.0	10.11	10.26	10.20	10.35	10.14	10.20	9.92	9.72	9.78	10.35	10.25	9.84
γ 176.0	10.16	10.02	10.24	10.32	10.16	9.96	10.15	9.71	10.02	10.22	9.91	9.88
γ 177.0	10.42	10.17	10.16	10.24	10.29	9.74	10.07	9.86	10.30	10.23	10.27	9.99
γ 178.0	10.22	10.33	10.26	10.50	10.37	10.05	10.17	9.91	10.08	10.35	10.15	10.23
γ 179.0	10.19	10.27	10.23	10.25	10.23	9.91	10.22	9.77	10.18	10.34	10.19	10.19
γ 180.0	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04	10.04
V/H	C270.0	C292.5	C315.0	C337.5								
γ 0.0	2770.97	2770.97	2770.97	2770.97								
γ 1.0	2769.48	2758.76	2746.76	2732.63								
γ 2.0	2765.19	2751.28	2732.98	2714.86								
γ 3.0	2756.05	2736.66	2710.73	2689.96								
γ 4.0	2737.99	2712.28	2679.77	2654.99								
γ 5.0	2708.43	2677.81	2641.86	2609.18								

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## Candela Tabulation - (Cont.)

V/H	C270. 0	C292. 5	C315. 0	C337. 5
$\gamma$ 6. 0	2671. 15	2635. 66	2593. 13	2555. 22
$\gamma$ 7. 0	2629. 19	2587. 11	2537. 64	2494. 30
$\gamma$ 8. 0	2579. 33	2528. 39	2472. 50	2425. 30
$\gamma$ 9. 0	2518. 62	2463. 25	2399. 24	2350. 54
$\gamma$ 10. 0	2447. 58	2389. 40	2319. 81	2268. 49
$\gamma$ 11. 0	2369. 37	2305. 68	2232. 39	2177. 07
$\gamma$ 12. 0	2285. 31	2214. 93	2139. 30	2078. 45
$\gamma$ 13. 0	2193. 00	2118. 35	2039. 39	1974. 70
$\gamma$ 14. 0	2091. 61	2017. 37	1930. 99	1866. 61
$\gamma$ 15. 0	1985. 32	1910. 09	1820. 76	1754. 70
$\gamma$ 16. 0	1877. 07	1799. 79	1708. 01	1641. 25
$\gamma$ 17. 0	1767. 25	1687. 00	1595. 13	1528. 83
$\gamma$ 18. 0	1656. 71	1575. 02	1485. 03	1420. 61
$\gamma$ 19. 0	1547. 60	1466. 36	1379. 77	1319. 44
$\gamma$ 20. 0	1442. 51	1362. 08	1279. 10	1224. 59
$\gamma$ 21. 0	1341. 80	1264. 81	1186. 74	1136. 22
$\gamma$ 22. 0	1245. 39	1175. 53	1101. 92	1054. 71
$\gamma$ 23. 0	1155. 93	1091. 87	1022. 70	978. 39
$\gamma$ 24. 0	1073. 67	1014. 74	948. 90	907. 26
$\gamma$ 25. 0	997. 22	942. 70	880. 55	840. 53
$\gamma$ 26. 0	925. 78	874. 71	816. 28	777. 89
$\gamma$ 27. 0	858. 01	811. 32	755. 59	717. 47
$\gamma$ 28. 0	793. 88	750. 89	695. 99	657. 19
$\gamma$ 29. 0	732. 93	692. 34	637. 63	597. 96
$\gamma$ 30. 0	674. 13	634. 10	580. 59	540. 80
$\gamma$ 31. 0	616. 39	576. 70	524. 24	486. 99
$\gamma$ 32. 0	559. 86	518. 89	469. 49	435. 76
$\gamma$ 33. 0	504. 17	461. 94	415. 93	381. 69
$\gamma$ 34. 0	448. 87	405. 45	361. 47	322. 44
$\gamma$ 35. 0	394. 00	351. 50	306. 23	269. 20
$\gamma$ 36. 0	338. 52	297. 33	255. 16	227. 99
$\gamma$ 37. 0	284. 35	250. 64	214. 24	193. 88
$\gamma$ 38. 0	238. 84	209. 89	183. 40	167. 45
$\gamma$ 39. 0	202. 94	179. 59	159. 80	147. 54
$\gamma$ 40. 0	173. 47	156. 58	140. 71	131. 39
$\gamma$ 41. 0	151. 08	138. 75	125. 66	118. 04
$\gamma$ 42. 0	134. 51	124. 24	113. 67	107. 00
$\gamma$ 43. 0	121. 24	112. 30	103. 71	97. 96
$\gamma$ 44. 0	109. 88	102. 22	94. 80	90. 32
$\gamma$ 45. 0	100. 44	94. 09	87. 38	83. 70
$\gamma$ 46. 0	92. 59	86. 83	81. 10	77. 73
$\gamma$ 47. 0	85. 73	80. 61	75. 63	72. 48
$\gamma$ 48. 0	79. 74	75. 13	70. 67	68. 02
$\gamma$ 49. 0	74. 69	70. 33	66. 22	63. 82
$\gamma$ 50. 0	70. 32	65. 96	62. 24	60. 00
$\gamma$ 51. 0	66. 16	62. 31	58. 80	56. 77
$\gamma$ 52. 0	62. 27	59. 06	55. 44	53. 62

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## Candela Tabulation - (Cont.)

V/H	C270. 0	C292. 5	C315. 0	C337. 5
γ 53. 0	58. 92	56. 02	52. 52	50. 58
γ 54. 0	56. 09	52. 97	49. 82	47. 74
γ 55. 0	53. 36	50. 27	47. 06	45. 20
γ 56. 0	50. 57	47. 33	44. 62	42. 62
γ 57. 0	47. 90	44. 79	41. 97	40. 21
γ 58. 0	45. 54	42. 54	39. 82	38. 12
γ 59. 0	43. 39	40. 43	37. 65	35. 92
γ 60. 0	41. 17	38. 32	35. 22	33. 74
γ 61. 0	38. 89	36. 12	32. 77	31. 52
γ 62. 0	36. 71	34. 16	30. 25	29. 21
γ 63. 0	34. 66	31. 98	27. 66	26. 82
γ 64. 0	32. 50	29. 97	25. 31	24. 68
γ 65. 0	30. 32	28. 00	22. 61	22. 65
γ 66. 0	28. 10	25. 81	20. 23	20. 56
γ 67. 0	25. 78	23. 76	18. 12	18. 60
γ 68. 0	23. 49	21. 65	16. 63	16. 85
γ 69. 0	21. 36	19. 69	14. 98	14. 96
γ 70. 0	19. 22	17. 69	13. 46	13. 29
γ 71. 0	17. 04	15. 41	12. 53	11. 77
γ 72. 0	15. 12	13. 46	10. 98	10. 43
γ 73. 0	13. 18	11. 60	9. 85	9. 76
γ 74. 0	11. 35	10. 61	9. 43	9. 13
γ 75. 0	10. 30	10. 00	8. 82	8. 57
γ 76. 0	9. 58	9. 58	8. 37	8. 16
γ 77. 0	8. 99	9. 00	7. 88	7. 83
γ 78. 0	8. 66	8. 41	7. 51	7. 40
γ 79. 0	8. 21	8. 01	7. 27	6. 97
γ 80. 0	7. 97	7. 89	7. 12	6. 82
γ 81. 0	7. 75	7. 37	6. 74	6. 75
γ 82. 0	7. 20	6. 87	6. 38	6. 48
γ 83. 0	6. 73	6. 69	6. 60	6. 16
γ 84. 0	6. 57	6. 42	6. 28	5. 97
γ 85. 0	6. 34	6. 22	6. 01	5. 72
γ 86. 0	6. 06	5. 98	5. 94	5. 69
γ 87. 0	5. 95	6. 12	5. 87	5. 59
γ 88. 0	5. 70	5. 81	5. 91	5. 31
γ 89. 0	5. 48	5. 34	5. 41	5. 15
γ 90. 0	5. 33	5. 30	5. 55	5. 09
γ 91. 0	5. 14	5. 39	5. 93	5. 33
γ 92. 0	5. 18	5. 35	5. 78	5. 51
γ 93. 0	5. 63	5. 43	5. 83	5. 41
γ 94. 0	6. 02	5. 63	6. 13	5. 46
γ 95. 0	5. 99	5. 50	5. 86	5. 68
γ 96. 0	5. 73	5. 49	6. 02	5. 62
γ 97. 0	5. 53	5. 64	6. 01	5. 51
γ 98. 0	5. 65	5. 54	6. 00	5. 64
γ 99. 0	5. 85	5. 78	6. 19	5. 87

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# IES Indoor Report

Photometric Filename:AD10104-20W-4000K-RA90-36D -WH-IES.IES

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## Candela Tabulation - (Cont.)

V/H	C270. 0	C292. 5	C315. 0	C337. 5
γ 100. 0	5. 80	5. 66	6. 24	6. 01
γ 101. 0	5. 73	5. 38	6. 37	5. 99
γ 102. 0	5. 76	5. 66	6. 31	5. 93
γ 103. 0	5. 71	5. 77	6. 26	5. 91
γ 104. 0	5. 73	5. 86	6. 48	5. 90
γ 105. 0	5. 90	6. 03	6. 33	5. 84
γ 106. 0	6. 13	5. 98	6. 73	5. 90
γ 107. 0	6. 13	5. 89	6. 75	6. 01
γ 108. 0	5. 86	5. 97	6. 50	6. 01
γ 109. 0	5. 81	5. 85	6. 71	5. 91
γ 110. 0	5. 97	5. 75	6. 30	6. 04
γ 111. 0	6. 18	5. 83	6. 03	6. 17
γ 112. 0	6. 13	5. 97	6. 09	6. 08
γ 113. 0	5. 98	6. 12	6. 45	5. 97
γ 114. 0	5. 96	6. 20	6. 51	5. 94
γ 115. 0	5. 87	6. 07	6. 52	6. 22
γ 116. 0	5. 93	5. 87	6. 80	6. 29
γ 117. 0	6. 04	6. 02	6. 58	6. 01
γ 118. 0	6. 06	6. 11	6. 59	6. 11
γ 119. 0	6. 00	6. 12	6. 47	6. 21
γ 120. 0	5. 97	6. 11	6. 53	6. 07
γ 121. 0	6. 11	6. 20	6. 52	6. 16
γ 122. 0	6. 22	6. 34	6. 45	6. 20
γ 123. 0	6. 09	6. 12	6. 54	6. 06
γ 124. 0	6. 00	6. 21	7. 01	6. 07
γ 125. 0	6. 07	6. 33	6. 47	6. 16
γ 126. 0	6. 25	6. 35	6. 73	6. 09
γ 127. 0	6. 47	6. 61	6. 54	6. 02
γ 128. 0	6. 53	6. 08	6. 49	6. 13
γ 129. 0	6. 58	6. 15	6. 47	6. 24
γ 130. 0	6. 50	6. 29	6. 72	6. 17
γ 131. 0	6. 38	6. 41	6. 81	6. 27
γ 132. 0	6. 57	6. 57	6. 65	6. 49
γ 133. 0	6. 62	6. 43	6. 92	6. 66
γ 134. 0	6. 56	6. 62	6. 81	6. 78
γ 135. 0	6. 69	6. 68	6. 93	6. 79
γ 136. 0	6. 74	6. 92	6. 91	6. 80
γ 137. 0	6. 72	6. 80	6. 93	6. 80
γ 138. 0	6. 79	6. 86	6. 87	6. 90
γ 139. 0	6. 84	7. 03	7. 03	6. 94
γ 140. 0	7. 02	7. 14	7. 30	6. 95
γ 141. 0	7. 20	6. 96	7. 27	7. 17
γ 142. 0	7. 18	7. 20	7. 47	7. 34
γ 143. 0	7. 21	7. 26	7. 52	7. 39
γ 144. 0	7. 26	7. 47	7. 45	7. 48
γ 145. 0	7. 38	7. 72	7. 56	7. 63
γ 146. 0	7. 55	7. 56	7. 73	7. 77

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# IES Indoor Report

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## Candela Tabulation - (Cont.)

V/H	C270.0	C292.5	C315.0	C337.5
γ 147.0	7.68	7.74	7.77	7.88
γ 148.0	7.65	7.93	7.82	7.84
γ 149.0	7.66	7.77	7.97	7.87
γ 150.0	7.94	7.90	8.20	7.93
γ 151.0	8.14	7.94	8.36	8.09
γ 152.0	8.19	8.10	8.23	8.20
γ 153.0	8.04	8.35	8.30	8.22
γ 154.0	8.02	8.38	8.41	8.28
γ 155.0	8.23	8.41	8.34	8.21
γ 156.0	8.51	8.63	8.60	8.29
γ 157.0	8.70	8.41	8.84	8.44
γ 158.0	8.67	8.52	9.02	8.55
γ 159.0	8.61	8.53	8.91	8.70
γ 160.0	8.66	8.84	9.05	8.81
γ 161.0	8.91	8.75	9.11	9.08
γ 162.0	9.00	8.98	9.10	9.30
γ 163.0	9.10	9.21	9.78	9.19
γ 164.0	9.42	9.25	9.71	9.19
γ 165.0	9.62	9.31	10.09	9.44
γ 166.0	9.61	9.38	9.76	9.60
γ 167.0	9.54	9.40	9.55	9.44
γ 168.0	9.65	9.58	9.90	9.35
γ 169.0	9.74	9.63	9.94	9.61
γ 170.0	9.67	9.57	9.82	9.81
γ 171.0	9.77	9.47	10.04	9.92
γ 172.0	9.96	9.84	10.20	9.90
γ 173.0	9.97	9.96	10.13	9.88
γ 174.0	9.91	9.91	10.16	9.99
γ 175.0	9.84	9.93	10.15	9.91
γ 176.0	10.05	9.79	10.26	9.95
γ 177.0	10.23	9.87	10.12	10.00
γ 178.0	10.24	9.81	10.21	9.91
γ 179.0	10.26	9.93	10.11	9.90
γ 180.0	10.04	10.04	10.04	10.04

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