

Indoor Luminaire Photometric Data

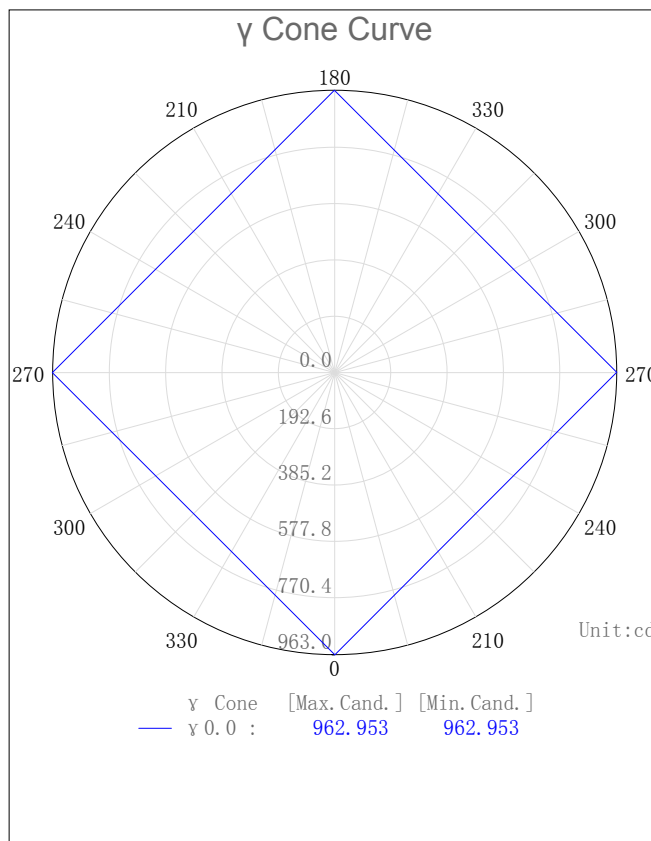
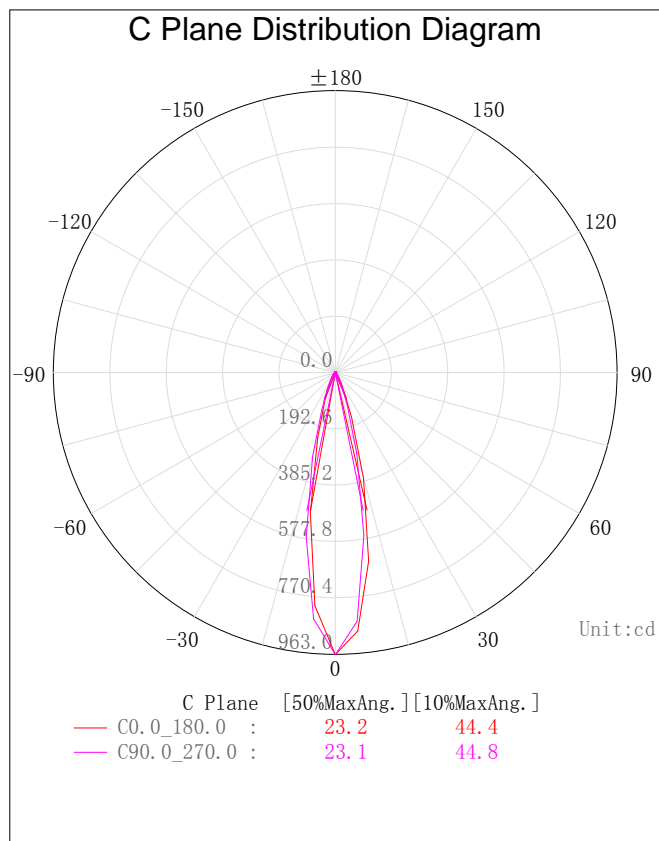
Description Information

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Date: 2021/03/24
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.120m*0.120m*0.070m	Lum. Area(m2):0.023	Lum. W(kg): 2.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp.(°C): 25
		Humidity(%):

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 226.890	Luminaire Flux: 226.888lm	Field Angle(10%Imax): 44.4	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 221.297lm 97.54%	
Rated Voltage(V):	Luminaire EER(lm/W): 64.402	Up Lumens&Percent: 5.591lm 2.46%	
Tested Power(W): 3.523	Max. Cand. (cd): 962.953	S/MH: C0_a180=0.393 C90_270=0.392	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electric:U=240.5V, I=0.028A, PF=0.000	Beam Angle(50%Imax): 23.2	ErP Φuse(90°): 202.282lm	
Lamp Size(W*L*H):0.120m*0.120m*0.070m	Left=-10.1 Right=13.1	IRF: 870.018%	

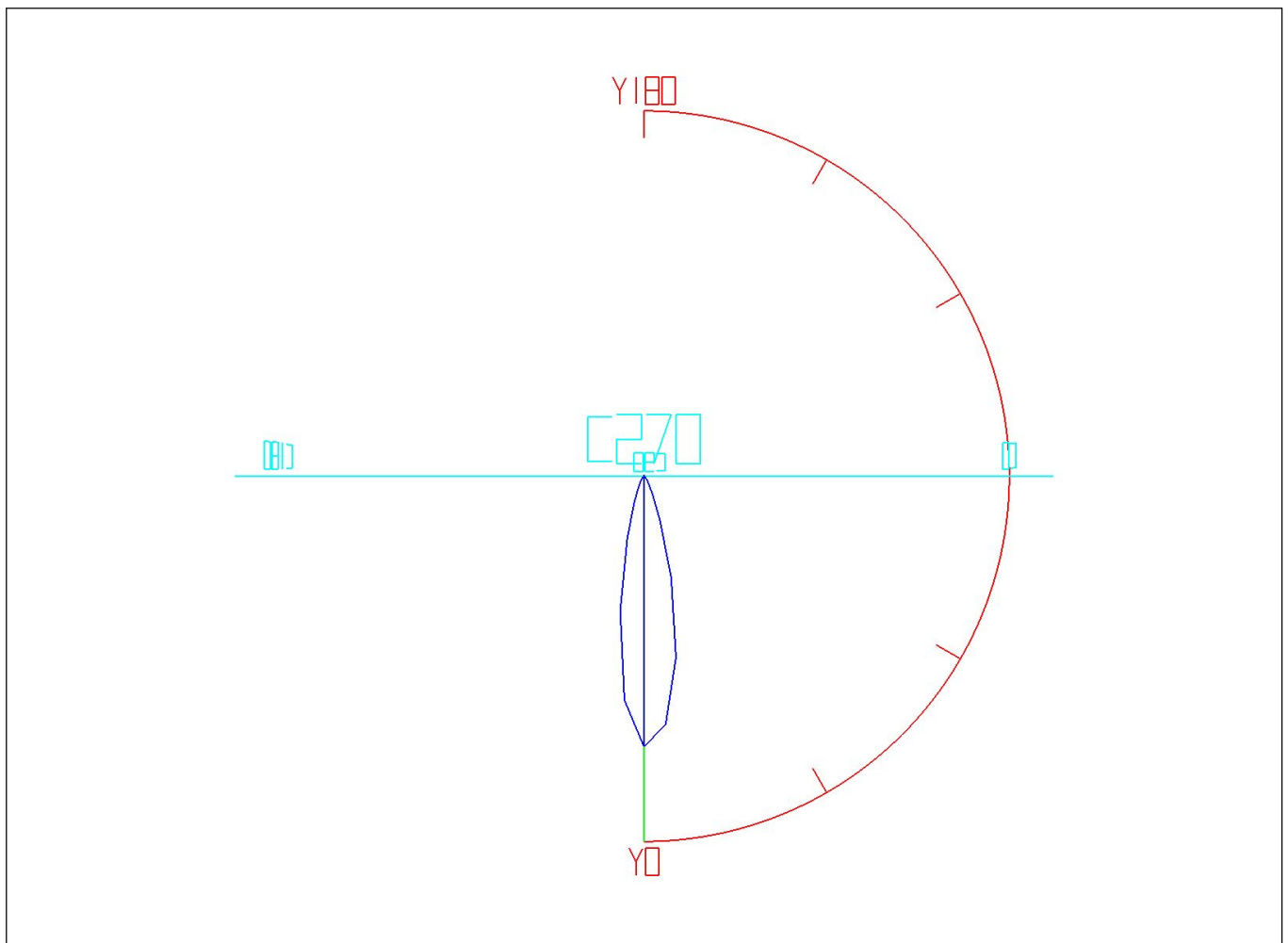
Lighting Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

3D Light Intensity Distribution Modal



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

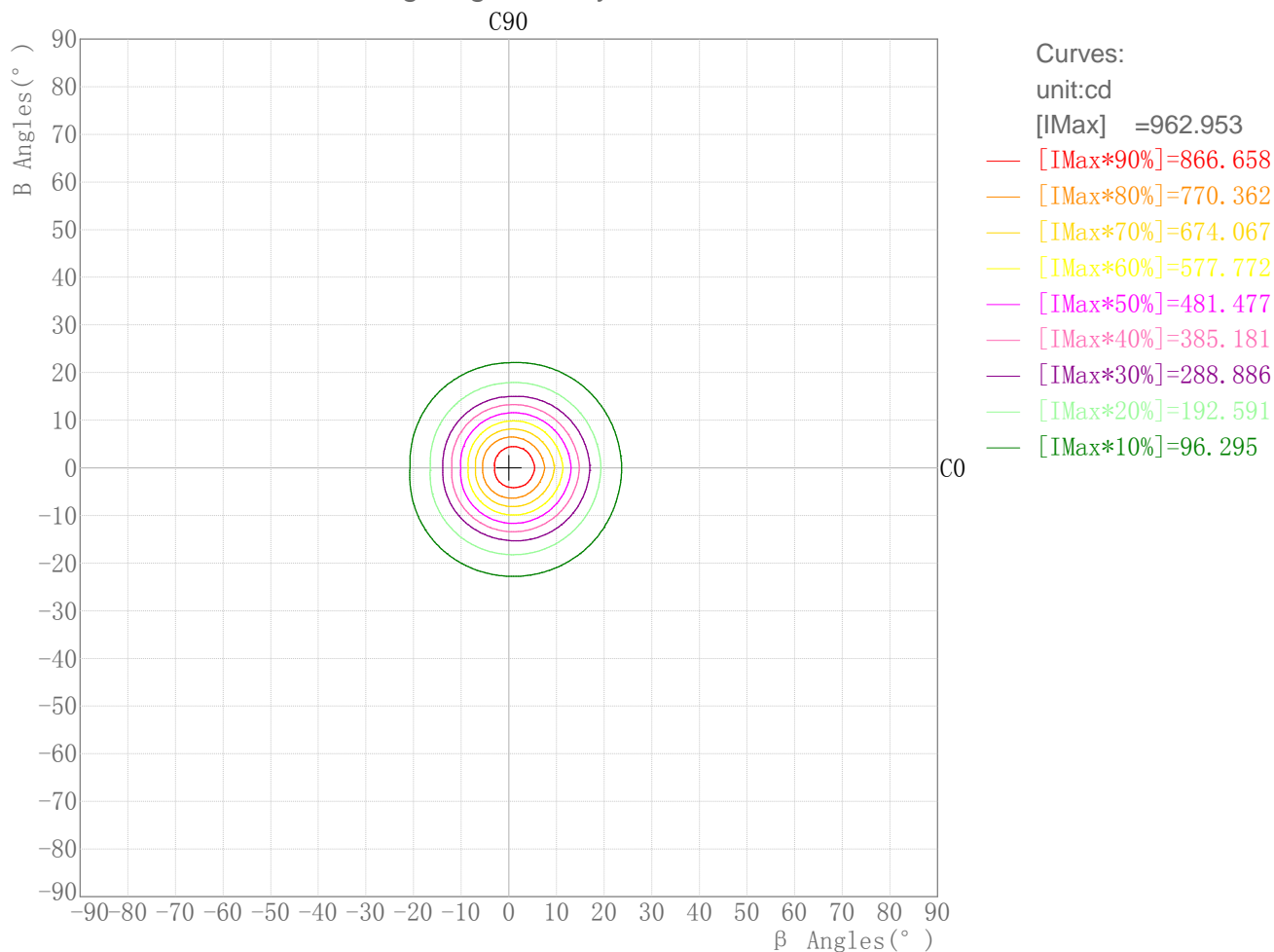
Zonal Flux Tabulation

Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	21.62	21.62	9.53	9.53
5.0-10.0	50.62	72.24	22.31	31.84
10.0-15.0	51.35	123.59	22.63	54.47
15.0-20.0	35.27	158.86	15.54	70.02
20.0-25.0	20.31	179.17	8.95	78.97
25.0-30.0	12.11	191.28	5.34	84.30
30.0-35.0	7.78	199.06	3.43	87.74
35.0-40.0	5.31	204.37	2.34	90.08
40.0-45.0	3.87	208.24	1.70	91.78
45.0-50.0	2.98	211.22	1.31	93.10
50.0-55.0	2.41	213.64	1.06	94.16
55.0-60.0	2.01	215.64	0.88	95.04
60.0-65.0	1.66	217.31	0.73	95.78
65.0-70.0	1.34	218.65	0.59	96.37
70.0-75.0	1.04	219.69	0.46	96.83
75.0-80.0	0.76	220.45	0.33	97.16
80.0-85.0	0.51	220.96	0.23	97.39
85.0-90.0	0.33	221.30	0.15	97.53
90.0-95.0	0.25	221.55	0.11	97.65
95.0-100.0	0.24	221.79	0.11	97.75
100.0-105.0	0.24	222.03	0.10	97.86
105.0-110.0	0.23	222.26	0.10	97.96
110.0-115.0	0.23	222.49	0.10	98.06
115.0-120.0	0.25	222.74	0.11	98.17
120.0-125.0	0.28	223.02	0.12	98.29
125.0-130.0	0.34	223.36	0.15	98.44
130.0-135.0	0.43	223.79	0.19	98.63
135.0-140.0	0.50	224.29	0.22	98.85
140.0-145.0	0.54	224.83	0.24	99.09
145.0-150.0	0.52	225.35	0.23	99.32
150.0-155.0	0.47	225.82	0.21	99.53
155.0-160.0	0.40	226.21	0.17	99.70
160.0-165.0	0.31	226.52	0.14	99.84
165.0-170.0	0.21	226.73	0.09	99.93
170.0-175.0	0.12	226.85	0.05	99.98
175.0-180.0	0.04	226.89	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

ISO Lighting Intensity Curve

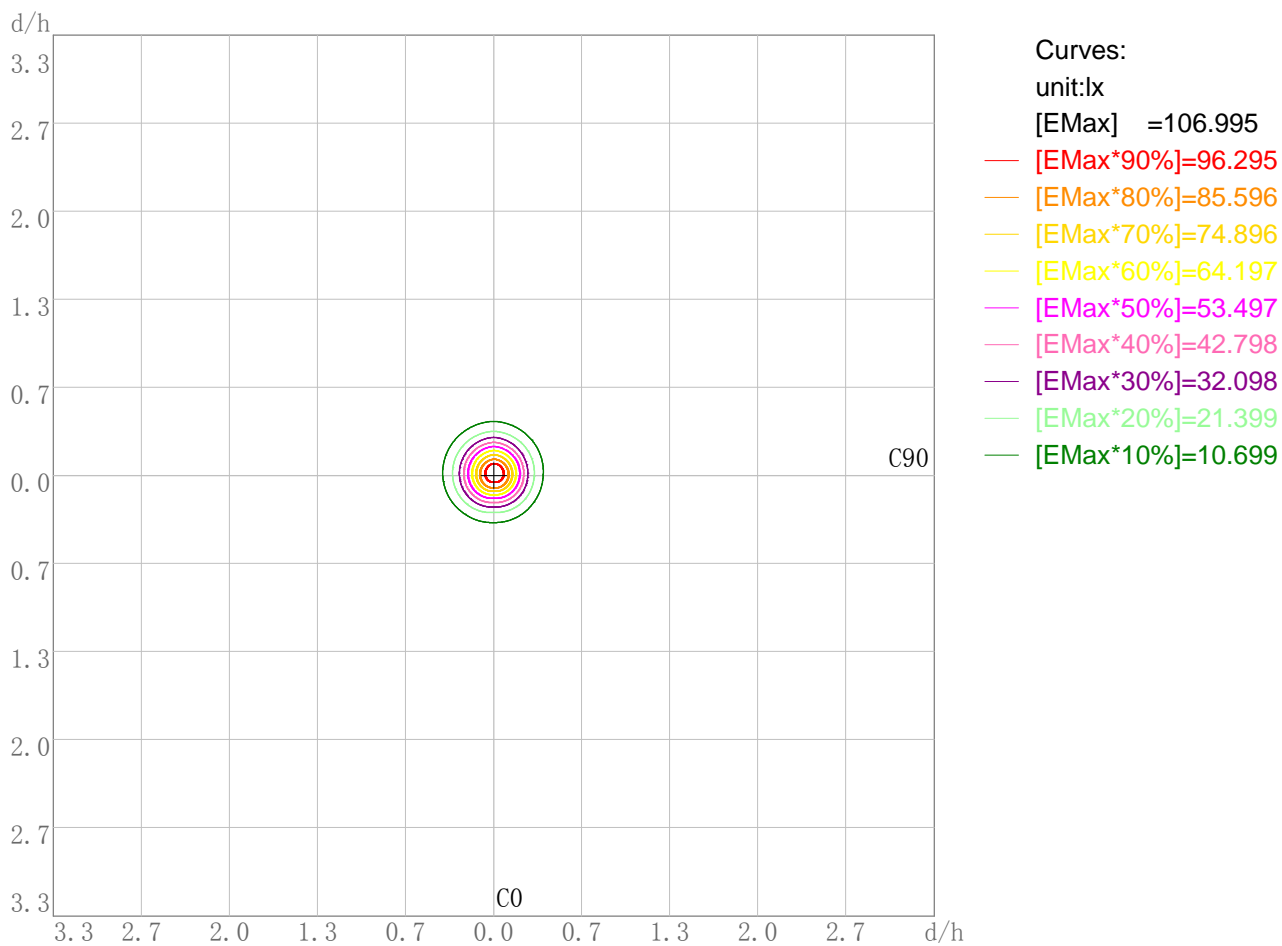


Maximum Light Intensity(cd): 962.95
Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

Plane ISO-Illuminance Curve

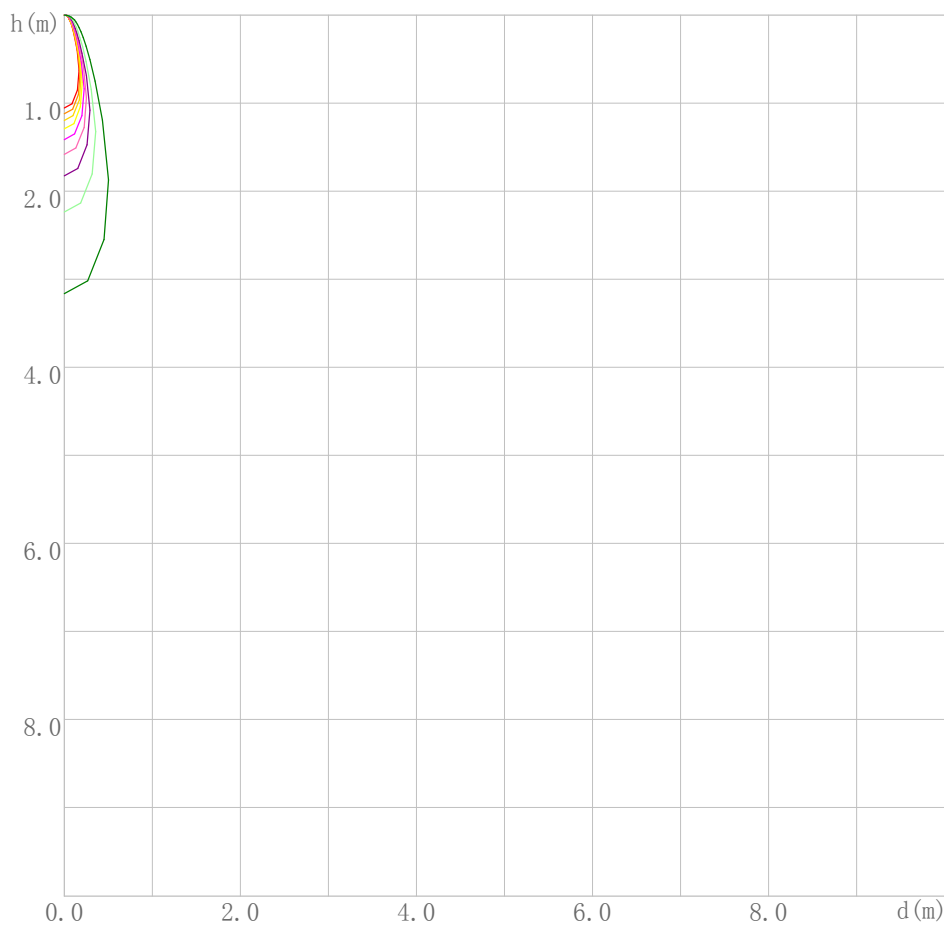


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 106.99
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

Space ISO Illuminance Diagram

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

Space ISO Illuminance Curve

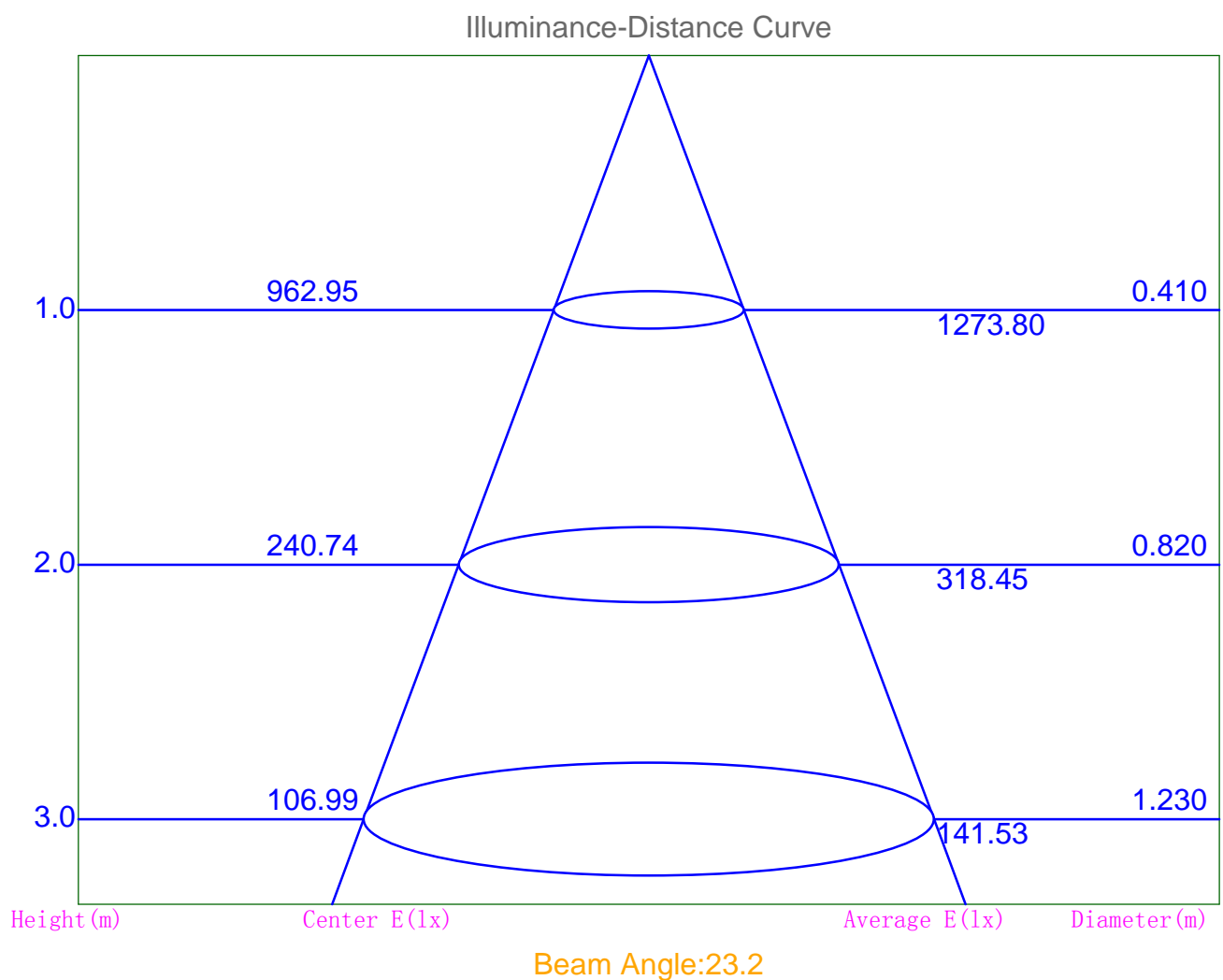


- Curves:
unit:lx
[E_{Max}] =962.953
- [E_{Max}*90%]=866.658
 - [E_{Max}*80%]=770.362
 - [E_{Max}*70%]=674.067
 - [E_{Max}*60%]=577.772
 - [E_{Max}*50%]=481.477
 - [E_{Max}*40%]=385.181
 - [E_{Max}*30%]=288.886
 - [E_{Max}*20%]=192.591
 - [E_{Max}*10%]=96.295

Space Plane Maximum Illuminance and @Angle:962.95,0.0deg
Plane Maximum Lighting Intensity and @Angle:962.953cd,0deg

Illuminance-Distance Diagram

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24



Indoor Luminance Limiting Curves

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

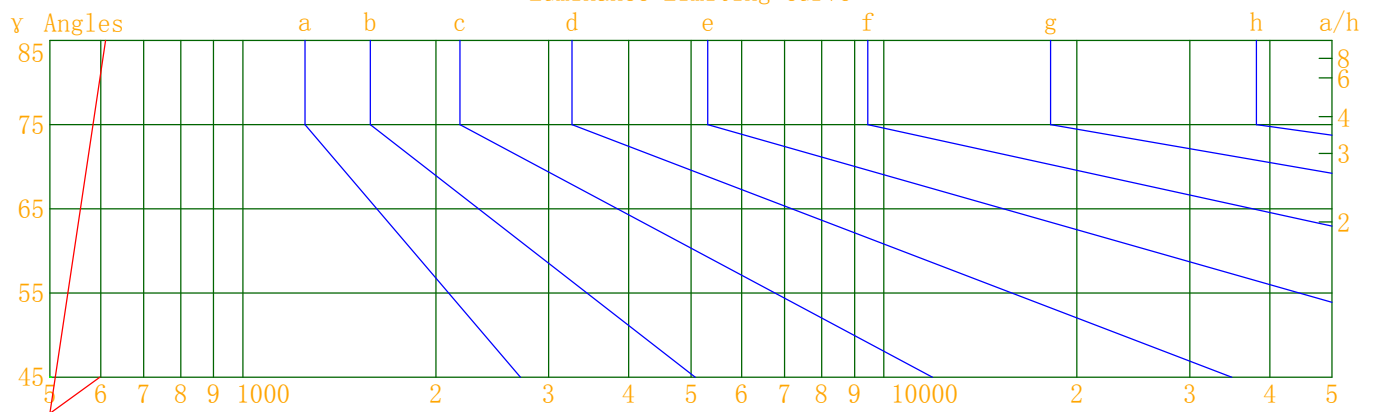
Glare Grade Table

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	598	485	425	394	379	375	386	436	611
C90	467	370	316	282	250	228	198	175	149

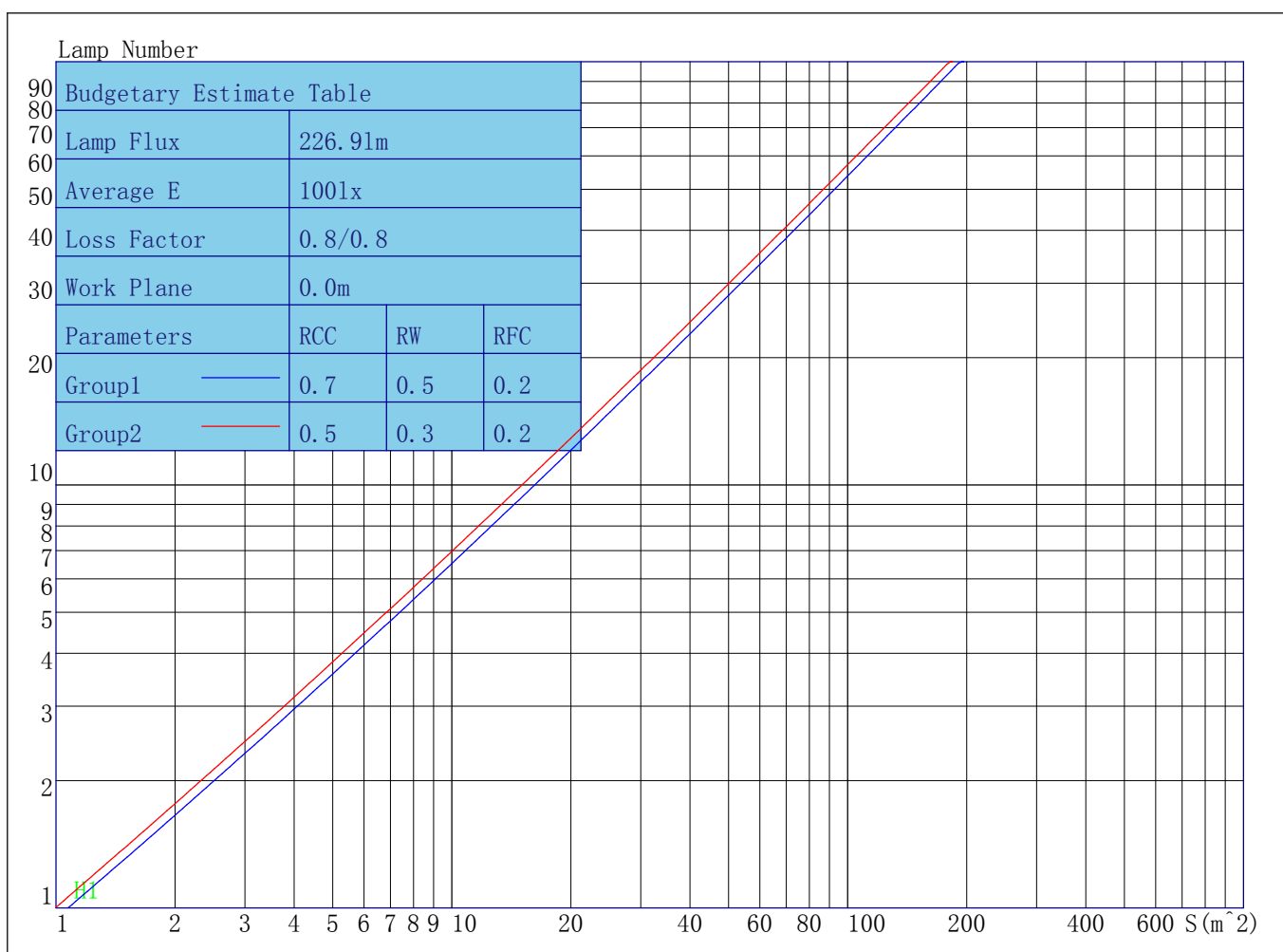
Luminance Limiting Curve



Luminous Size: Length(m)=0.120 Width(m)=0.120 Height(m)=0.070 Area(m^2)=0.022800
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24



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

Indoor Coefficient of Utilization Table

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	114	111	109	107	111	109	107	105	104	103	101	100	99	98	96	95	95	93
2	109	105	101	98	107	103	100	97	99	97	95	96	94	92	93	91	90	88
3	105	99	95	92	103	98	94	91	95	92	89	92	90	88	90	88	86	84
4	101	95	90	87	99	93	89	86	91	88	85	89	86	84	87	84	82	81
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	84	81	79	78
6	94	87	82	79	93	86	82	78	84	81	78	83	80	77	82	79	76	75
7	91	84	79	76	90	83	79	75	82	78	75	80	77	74	79	76	74	73
8	88	81	76	73	87	80	76	73	79	75	72	78	74	72	77	74	71	70
9	86	78	74	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68
10	83	76	71	68	82	75	71	68	74	70	68	73	70	67	73	70	67	66

Unified Glare Rating Table

Lum. Name: AH29-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

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	14.3	16.2	15.2	17.0	17.7	12.7	14.6	13.6	15.4	16.2
Y=3H	15.9	17.7	16.8	18.5	19.3	13.8	15.6	14.7	16.4	17.2
Y=4H	17.1	18.9	18.0	19.7	20.4	14.4	16.2	15.3	17.0	17.8
Y=6H	18.4	20.2	19.3	21.0	21.7	14.9	16.7	15.8	17.5	18.2
Y=8H	19.2	20.9	20.1	21.7	22.5	15.1	16.8	16.0	17.6	18.4
Y=12H	20.0	21.8	20.9	22.6	23.3	15.2	16.9	16.1	17.7	18.5
X=4H Y=2H	14.2	16.0	15.1	16.8	17.5	12.9	14.6	13.8	15.4	16.2
Y=3H	16.0	17.8	16.9	18.6	19.4	14.2	16.0	15.1	16.8	17.5
Y=4H	15.4	16.6	16.5	17.6	18.6	13.1	14.3	14.2	15.3	16.2
Y=6H	17.2	18.3	18.3	19.4	20.3	14.0	15.1	15.1	16.1	17.1
Y=8H	18.3	19.4	19.4	20.4	21.4	14.3	15.5	15.4	16.5	17.5
Y=12H	18.6	19.5	19.8	20.7	21.7	13.7	14.6	14.9	15.8	16.8
X=8H Y=4H	15.3	16.5	16.5	17.5	18.5	13.3	14.4	14.4	15.4	16.4
Y=6H	16.4	17.3	17.6	18.4	19.5	13.5	14.4	14.7	15.5	16.6
Y=8H	17.2	17.9	18.5	19.1	20.2	13.6	14.3	14.9	15.6	16.7
Y=12H	18.7	19.5	20.0	20.7	21.8	14.1	14.9	15.4	16.1	17.2
X=12H Y=4H	14.4	15.3	15.6	16.4	17.5	12.4	13.3	13.6	14.4	15.5
Y=6H	15.9	16.6	17.2	17.8	19.0	13.1	13.8	14.4	15.1	16.2
Y=8H	17.2	17.9	18.5	19.1	20.2	13.8	14.5	15.1	15.7	16.8
Variations with the objver position at spacings										
S=1.0H	-0.3/-10.6					-1.6/-9.0				
S=1.5H	-6.5/-26.9					-8.1/-22.8				
S=2.0H	-9.0/-26.9					-9.0/-22.8				

IES Indoor Report
Photometric Filename:AH29-WH

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	962.95	962.95	962.95	962.95
Y 5.0	886.44	853.10	799.34	844.34
Y 10.0	654.73	566.46	485.86	569.42
Y 15.0	374.48	285.83	229.38	296.54
Y 20.0	164.38	123.30	103.82	134.04
Y 25.0	72.26	58.12	52.70	66.05
Y 30.0	37.78	30.76	28.73	36.32
Y 35.0	21.88	17.66	16.90	21.40
Y 40.0	13.94	11.06	10.74	13.78
Y 45.0	9.64	7.53	7.31	9.52
Y 50.0	7.11	5.43	5.37	7.15
Y 55.0	5.56	4.13	4.09	5.56
Y 60.0	4.49	3.21	3.18	4.47
Y 65.0	3.65	2.41	2.38	3.59
Y 70.0	2.92	1.78	1.72	2.78
Y 75.0	2.28	1.17	1.13	2.15
Y 80.0	1.73	0.69	0.67	1.53
Y 85.0	1.21	0.30	0.30	1.11
Y 90.0	0.87	0.07	0.22	0.78
Y 95.0	0.73	0.10	0.20	0.72
Y 100.0	0.73	0.10	0.28	0.72
Y 105.0	0.66	0.14	0.24	0.66
Y 110.0	0.68	0.15	0.31	0.67
Y 115.0	0.64	0.21	0.38	0.64
Y 120.0	0.69	0.31	0.46	0.73
Y 125.0	0.78	0.40	0.67	0.83
Y 130.0	0.93	0.68	0.91	1.07
Y 135.0	1.25	0.98	1.30	1.35
Y 140.0	1.52	1.30	1.56	1.62
Y 145.0	1.82	1.54	1.74	1.79
Y 150.0	1.98	1.63	1.85	1.80
Y 155.0	2.04	1.72	1.85	1.90
Y 160.0	2.08	1.72	1.89	1.89
Y 165.0	1.99	1.72	1.80	1.90
Y 170.0	1.90	1.60	1.66	1.81
Y 175.0	1.65	1.45	1.52	1.62
Y 180.0	1.48	1.48	1.48	1.48
