

Indoor Luminaire Photometric Data

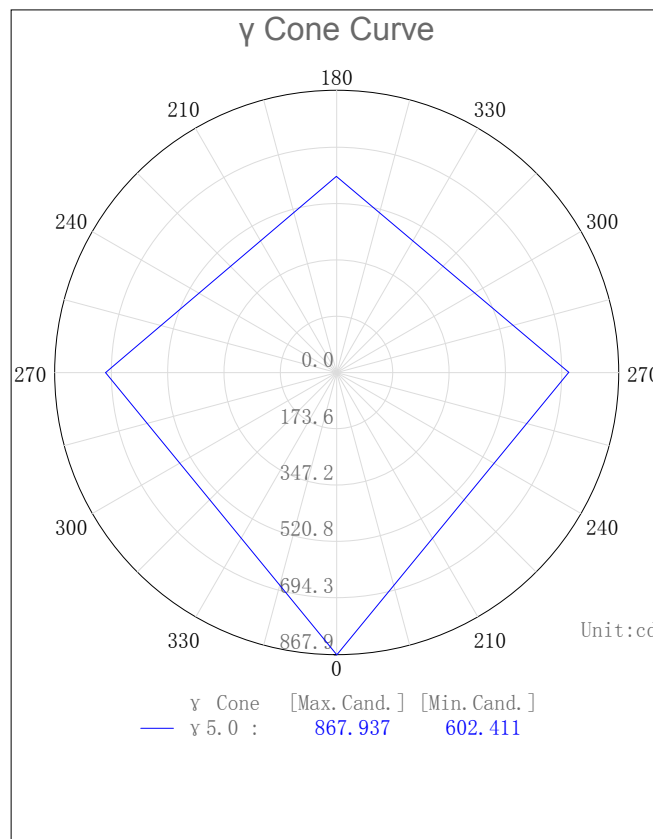
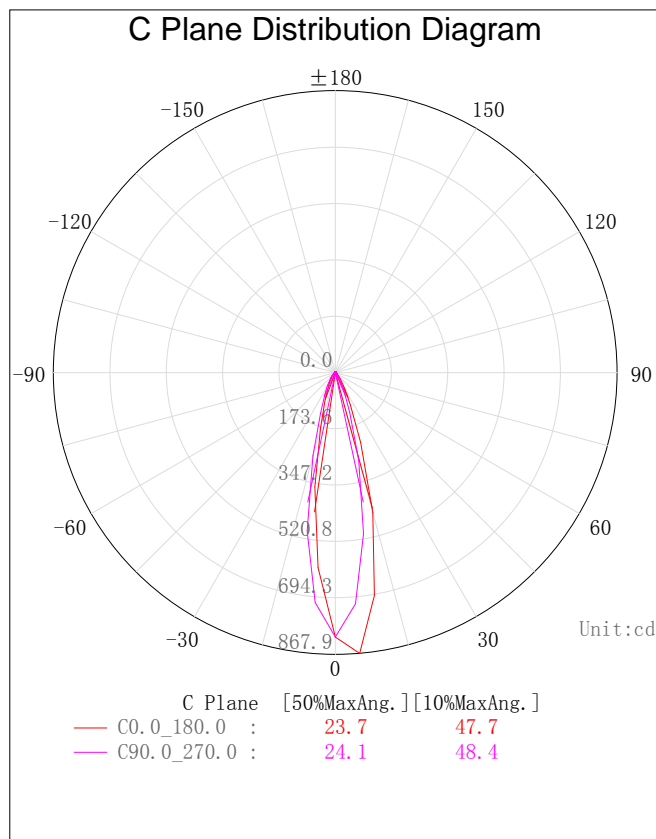
Description Information

Lum. Name: AH27-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):0.080m*0.170m*0.070m	Lum. Area(m2):0.025	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): 230.240	Luminaire Flux: 230.243lm	Field Angle(10%Imax): 47.7
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 224.589lm 97.54%
Rated Voltage(V):	Luminaire EER(lm/W): 65.280	Up Lumens&Percent: 5.654lm 2.46%
Tested Power(W): 3.527	Max. Cand. (cd): 867.937	S/MH: C0_a180=0.419 C90_270=0.407
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=5.0	CIE Type: Semi-Direct
Tested Electric:U=240.3V, I=0.028A, PF=0.000	Beam Angle(50%Imax): 23.7	ErP Φuse(90°): 196.804lm
Lamp Size(W*L*H):0.080m*0.170m*0.070m	Left=-8.4 Right=15.3	IRF: 722.975%

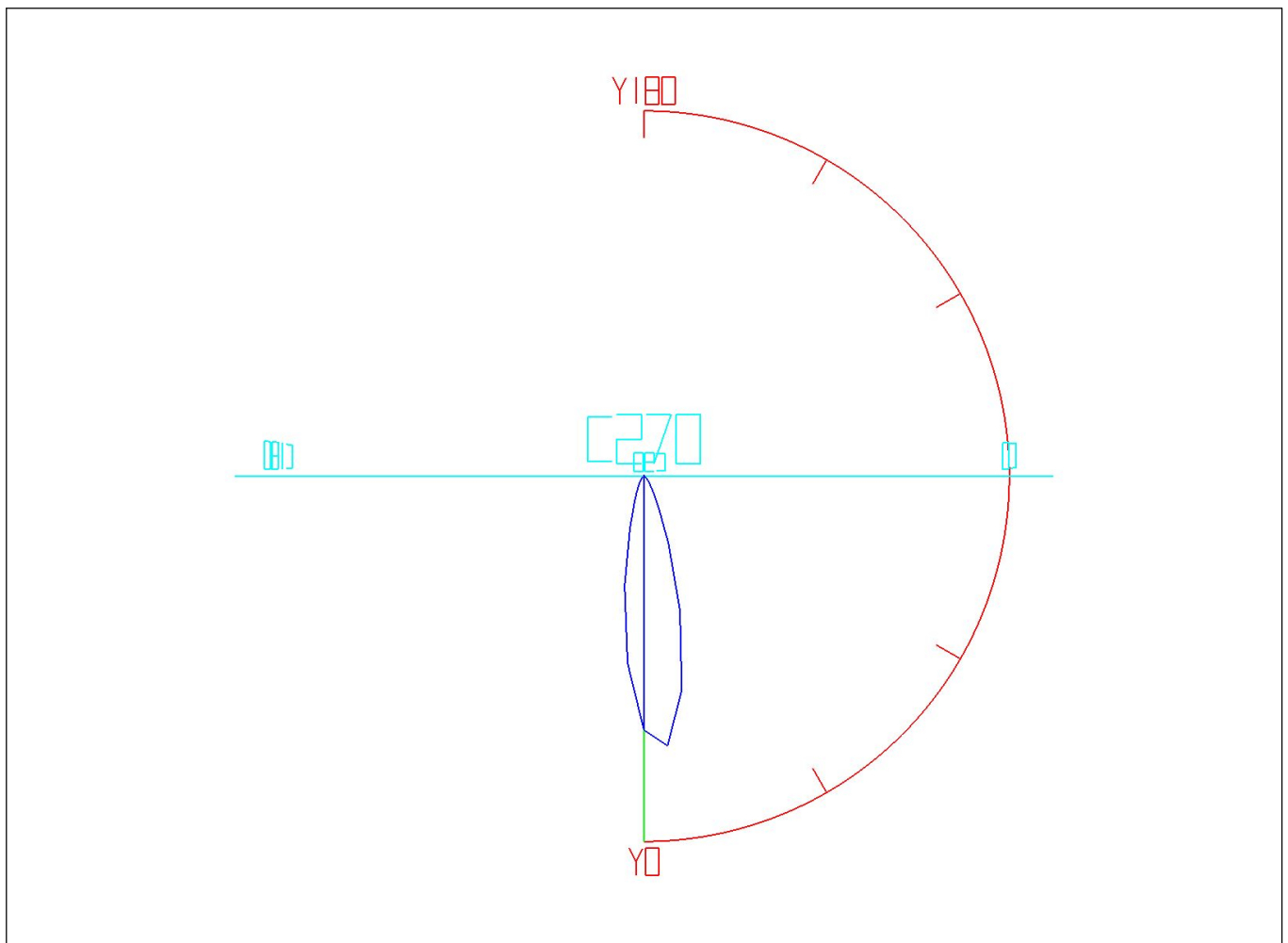
Lighting Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: AH27-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 — 3D Model — Fixture — Fixture — Vert. HUD — Vert. HUD — Hori. HUD — Hori. HUD —
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

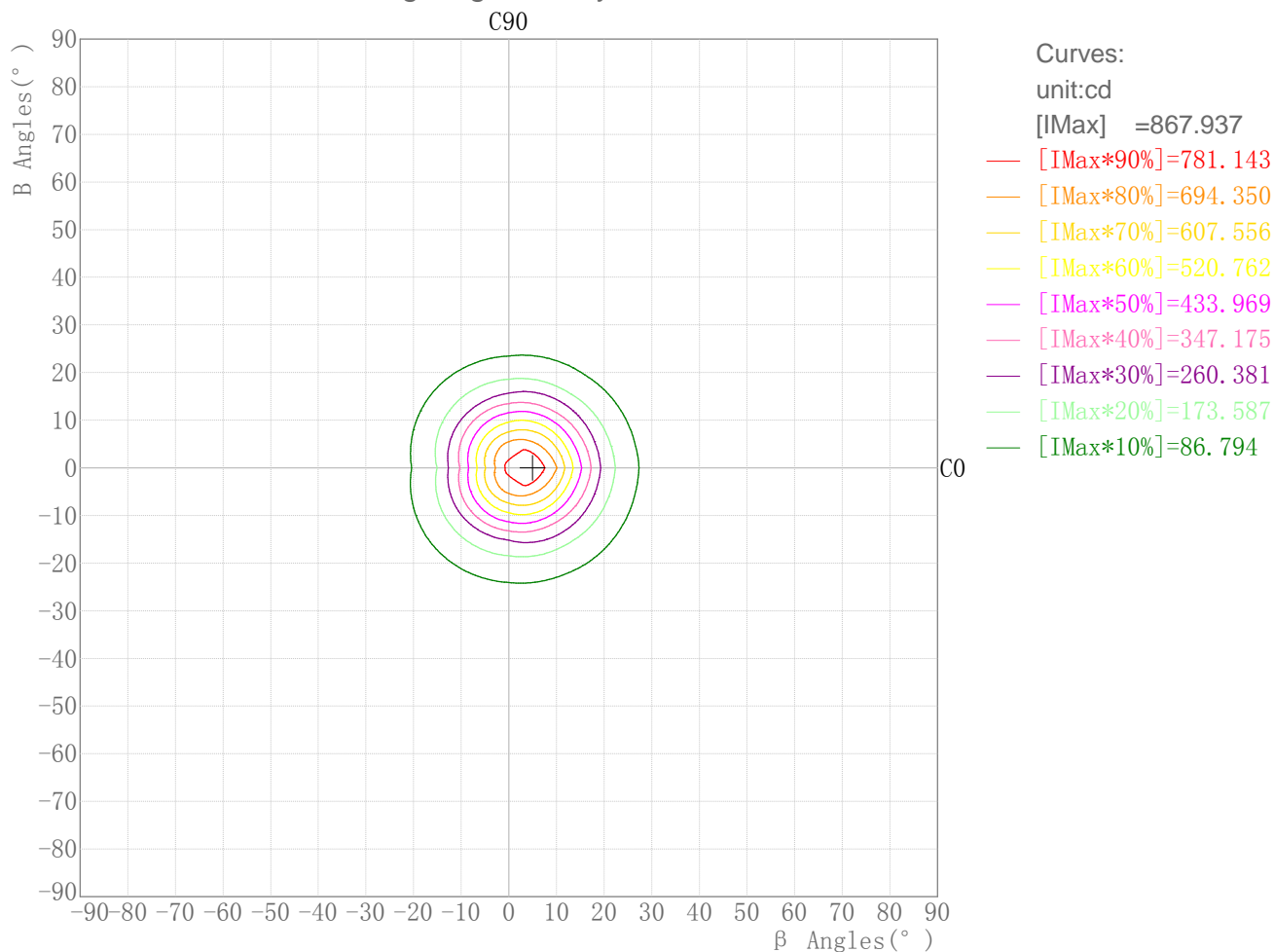
Zonal Flux Tabulation

Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	18.39	18.39	7.99	7.99
5.0-10.0	44.26	62.65	19.22	27.21
10.0-15.0	47.76	110.41	20.74	47.95
15.0-20.0	36.05	146.46	15.66	63.61
20.0-25.0	23.35	169.81	10.14	73.76
25.0-30.0	15.37	185.19	6.68	80.43
30.0-35.0	10.65	195.83	4.62	85.06
35.0-40.0	7.58	203.42	3.29	88.35
40.0-45.0	5.50	208.92	2.39	90.74
45.0-50.0	4.08	212.99	1.77	92.51
50.0-55.0	3.09	216.09	1.34	93.85
55.0-60.0	2.39	218.48	1.04	94.89
60.0-65.0	1.87	220.35	0.81	95.71
65.0-70.0	1.45	221.80	0.63	96.34
70.0-75.0	1.10	222.90	0.48	96.81
75.0-80.0	0.79	223.69	0.35	97.16
80.0-85.0	0.54	224.23	0.23	97.39
85.0-90.0	0.36	224.59	0.15	97.55
90.0-95.0	0.27	224.85	0.12	97.66
95.0-100.0	0.25	225.10	0.11	97.77
100.0-105.0	0.24	225.34	0.10	97.87
105.0-110.0	0.24	225.58	0.10	97.98
110.0-115.0	0.25	225.83	0.11	98.08
115.0-120.0	0.26	226.09	0.11	98.20
120.0-125.0	0.30	226.39	0.13	98.33
125.0-130.0	0.36	226.76	0.16	98.49
130.0-135.0	0.43	227.19	0.19	98.68
135.0-140.0	0.49	227.68	0.21	98.89
140.0-145.0	0.52	228.21	0.23	99.12
145.0-150.0	0.51	228.71	0.22	99.34
150.0-155.0	0.46	229.17	0.20	99.54
155.0-160.0	0.39	229.56	0.17	99.70
160.0-165.0	0.31	229.87	0.13	99.84
165.0-170.0	0.21	230.08	0.09	99.93
170.0-175.0	0.12	230.20	0.05	99.98
175.0-180.0	0.04	230.24	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: AH27-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

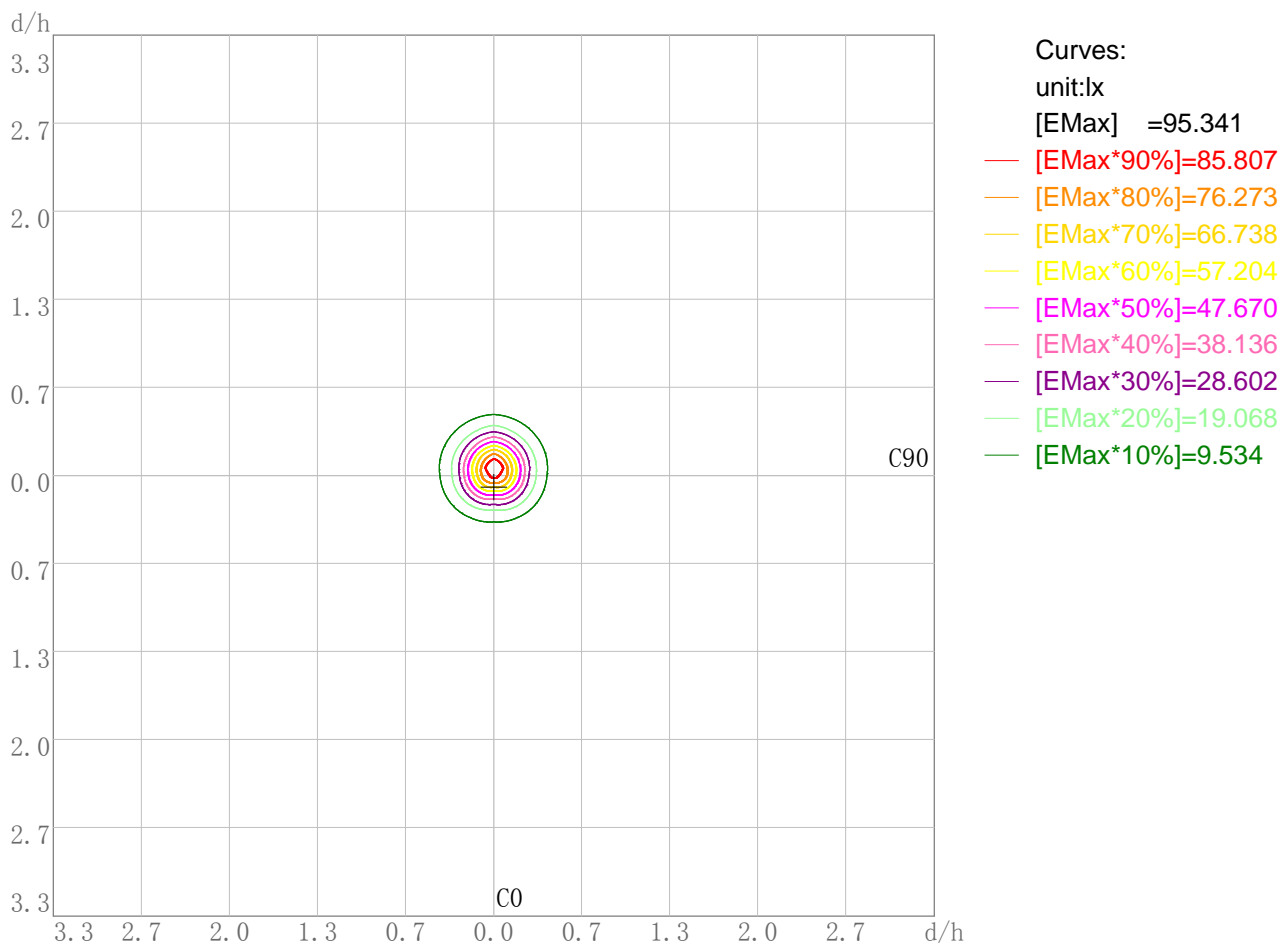


Maximum Light Intensity(cd): 867.94
Maximum Cand.@Angle: H=5.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: AH27-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

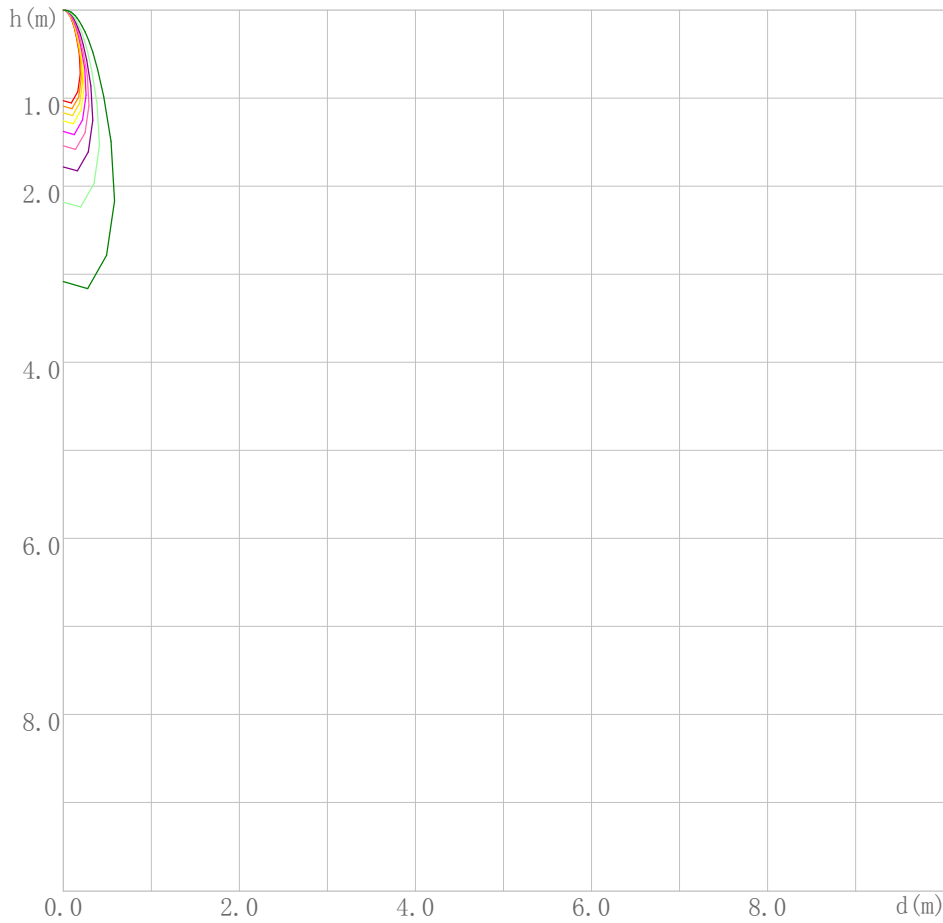


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 95.34
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.1

Space ISO Illuminance Diagram

Lum. Name: AH27-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

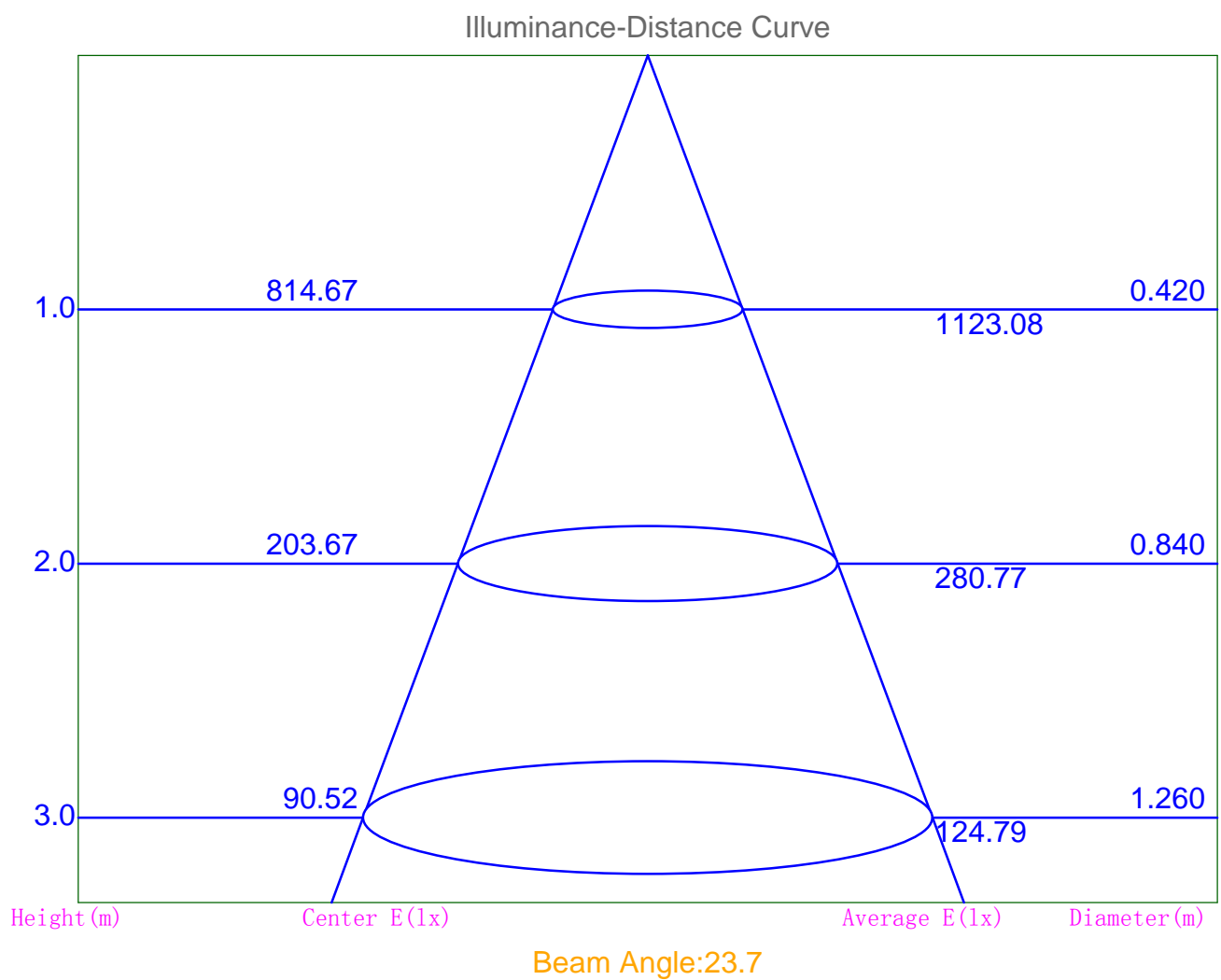


- Curves:
unit:lx
[E_{Max}] =858.066
- [E_{Max}*90%]=772.260
 - [E_{Max}*80%]=686.453
 - [E_{Max}*70%]=600.646
 - [E_{Max}*60%]=514.840
 - [E_{Max}*50%]=429.033
 - [E_{Max}*40%]=343.227
 - [E_{Max}*30%]=257.420
 - [E_{Max}*20%]=171.613
 - [E_{Max}*10%]=85.807

Space Plane Maximum Illuminance and @Angle:858.07,5.0deg
Plane Maximum Lighting Intensity and @Angle:867.937cd,0deg

Illuminance-Distance Diagram

Lum. Name: AH27-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: AH27-WH	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/24

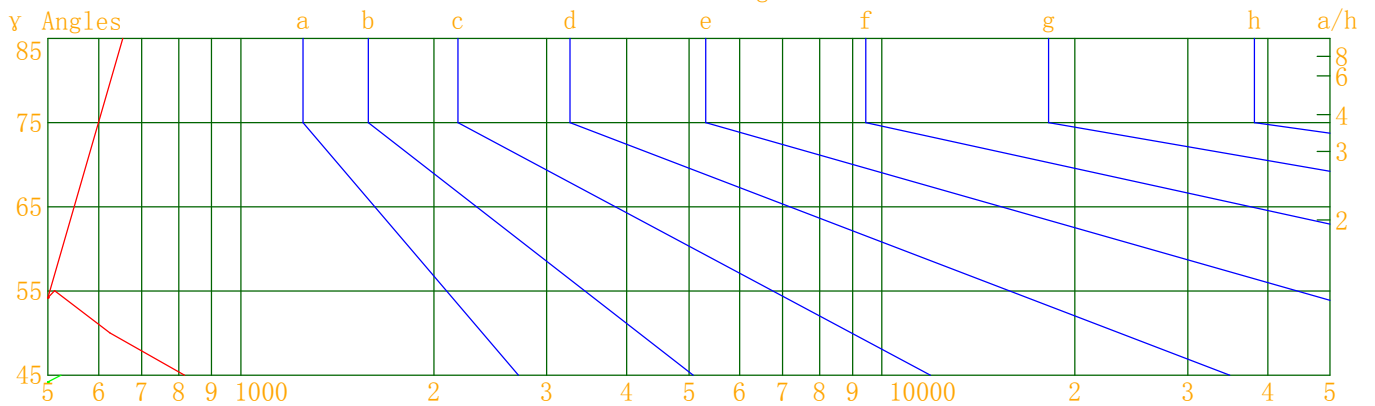
Glare Grade Table

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	817	625	512	446	410	395	405	452	654
C90	524	396	317	268	230	205	185	163	171

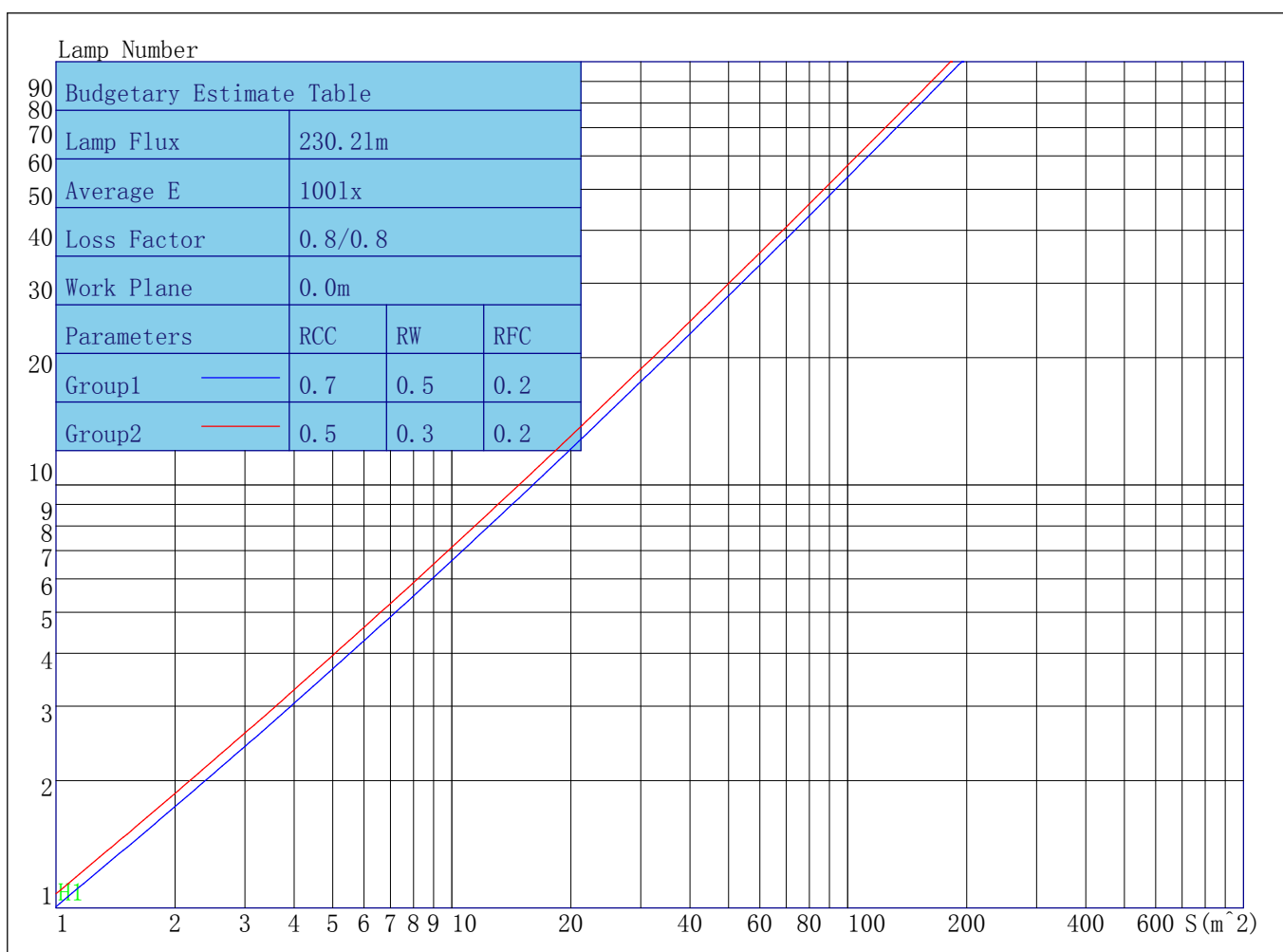
Luminance Limiting Curve



Luminous Size: Length(m)=0.170 Width(m)=0.080 Height(m)=0.070 Area(m^2)=0.025500
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: AH27-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: AH27-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	113	111	108	106	111	108	106	104	104	102	101	100	98	97	96	95	94	92
2	108	104	100	97	106	102	99	96	98	96	93	95	93	91	92	90	89	87
3	104	98	94	90	102	97	93	89	94	90	88	91	88	86	88	86	84	83
4	100	93	88	85	98	92	87	84	89	86	83	87	84	81	85	82	80	79
5	96	89	84	80	94	88	83	79	86	82	78	84	80	78	82	79	77	75
6	92	85	80	76	91	84	79	76	82	78	75	81	77	74	79	76	73	72
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	76	73	71	69
8	86	78	73	69	85	77	72	69	76	72	69	75	71	68	74	70	68	67
9	83	75	70	67	82	74	70	67	73	69	66	72	69	66	71	68	66	64
10	80	72	68	64	79	72	67	64	71	67	64	70	66	64	69	66	63	62

Unified Glare Rating Table

Lum. Name: AH27-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	17.3	19.2	18.2	20.0	20.8	14.6	16.5	15.5	17.3	18.0
Y=3H	18.5	20.4	19.4	21.2	22.0	15.3	17.2	16.2	18.0	18.8
Y=4H	19.6	21.4	20.5	22.2	22.9	15.9	17.7	16.8	18.5	19.2
Y=6H	20.7	22.5	21.6	23.3	24.0	16.3	18.0	17.2	18.8	19.6
Y=8H	21.4	23.2	22.3	23.9	24.7	16.4	18.2	17.3	19.0	19.7
Y=12H	22.2	23.9	23.1	24.7	25.5	16.5	18.3	17.4	19.1	19.8
X=4H Y=2H	17.1	18.9	18.0	19.7	20.5	14.7	16.5	15.6	17.3	18.0
Y=3H	18.6	20.4	19.5	21.2	21.9	15.8	17.5	16.7	18.3	19.1
Y=4H	17.8	19.0	18.9	20.0	20.9	14.5	15.7	15.6	16.7	17.6
Y=6H	19.3	20.5	20.5	21.5	22.5	15.2	16.4	16.4	17.4	18.4
Y=8H	20.3	21.4	21.4	22.5	23.4	15.6	16.7	16.7	17.7	18.7
Y=12H	20.6	21.5	21.8	22.6	23.7	15.0	15.9	16.2	17.0	18.1
X=8H Y=4H	17.7	18.8	18.8	19.9	20.8	14.7	15.8	15.8	16.8	17.8
Y=6H	18.5	19.4	19.8	20.5	21.6	14.8	15.7	16.0	16.8	17.8
Y=8H	19.2	19.9	20.5	21.1	22.2	14.9	15.6	16.2	16.8	17.9
Y=12H	20.7	21.4	22.0	22.6	23.7	15.5	16.2	16.7	17.4	18.5
X=12H Y=4H	16.8	17.6	18.0	18.8	19.8	13.8	14.7	15.0	15.8	16.9
Y=6H	18.0	18.7	19.3	19.9	21.0	14.4	15.1	15.7	16.3	17.4
Y=8H	19.2	19.9	20.5	21.1	22.2	15.1	15.8	16.3	17.0	18.1
Variations with the objver position at spacings										
S=1.0H	-0.5/-11.0					-1.7/-8.3				
S=1.5H	-7.2/-29.6					-8.3/-23.5				
S=2.0H	-9.8/-29.6					-8.3/-23.5				

IES Indoor Report

Photometric Filename:AH27-WH

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Υ 0.0	814.67	814.67	814.67	814.67
Υ 5.0	867.94	714.32	602.41	710.39
Υ 10.0	696.83	503.50	357.64	495.80
Υ 15.0	446.20	280.39	174.64	265.28
Υ 20.0	229.25	132.10	89.62	132.47
Υ 25.0	110.49	66.88	53.47	76.39
Υ 30.0	59.78	37.78	33.61	47.48
Υ 35.0	35.24	22.78	21.71	30.83
Υ 40.0	22.23	14.37	14.16	20.51
Υ 45.0	14.74	9.45	9.46	13.92
Υ 50.0	10.24	6.49	6.51	9.85
Υ 55.0	7.49	4.64	4.59	7.11
Υ 60.0	5.69	3.42	3.21	5.29
Υ 65.0	4.42	2.47	2.29	3.99
Υ 70.0	3.45	1.78	1.50	2.97
Υ 75.0	2.68	1.22	0.98	2.19
Υ 80.0	2.00	0.72	0.56	1.53
Υ 85.0	1.45	0.38	0.22	1.09
Υ 90.0	1.01	0.04	0.22	0.78
Υ 95.0	0.79	0.12	0.21	0.72
Υ 100.0	0.74	0.11	0.25	0.70
Υ 105.0	0.70	0.13	0.31	0.64
Υ 110.0	0.70	0.21	0.30	0.68
Υ 115.0	0.70	0.20	0.45	0.64
Υ 120.0	0.71	0.34	0.56	0.72
Υ 125.0	0.77	0.50	0.81	0.87
Υ 130.0	0.90	0.68	1.12	1.03
Υ 135.0	1.12	1.01	1.38	1.34
Υ 140.0	1.37	1.25	1.63	1.57
Υ 145.0	1.69	1.51	1.76	1.72
Υ 150.0	1.85	1.61	1.82	1.80
Υ 155.0	2.04	1.66	1.87	1.81
Υ 160.0	2.02	1.74	1.84	1.92
Υ 165.0	2.05	1.74	1.82	1.81
Υ 170.0	1.95	1.70	1.65	1.72
Υ 175.0	1.83	1.53	1.59	1.60
Υ 180.0	1.64	1.64	1.64	1.64
