

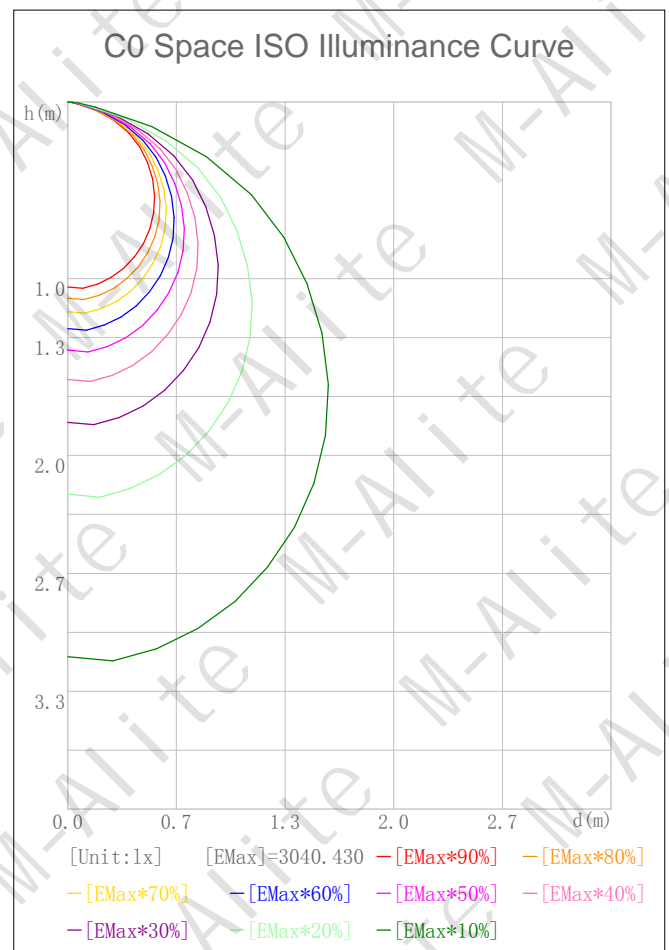
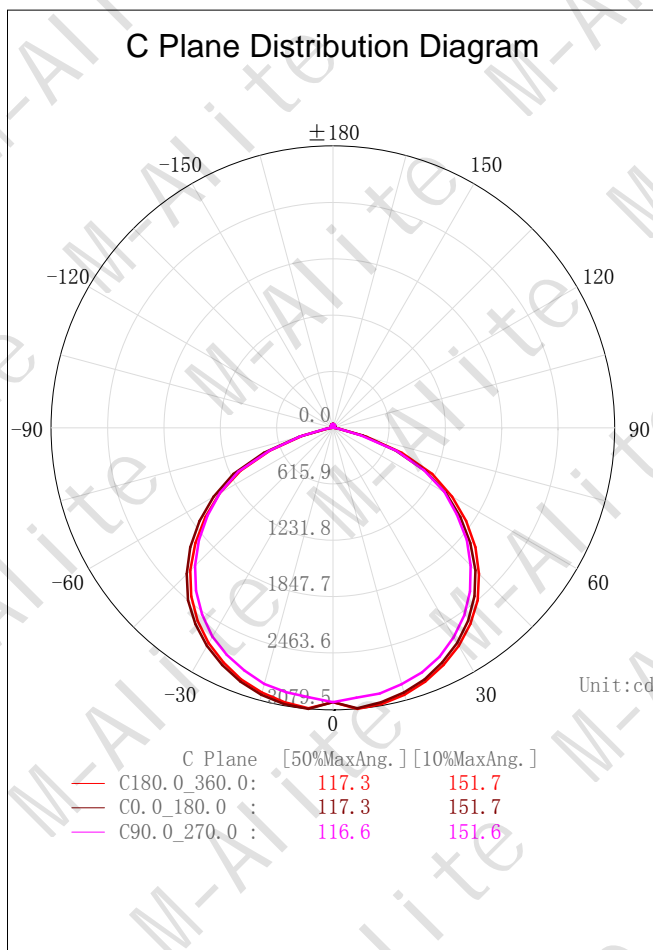
Indoor Luminaire Photometric Data

Description Information

Luminaire Name: AF13-100W		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2019/05/15
Manufacture:		Shld. Ang (°):	Test Machine:GON-2000
Test Lab:		Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.000m*0.000m*0.000m		Lum. Area (m2): 0.000	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=5.0	Temp. (°C): 25	Humidity (%): 50.0

Character Parameter

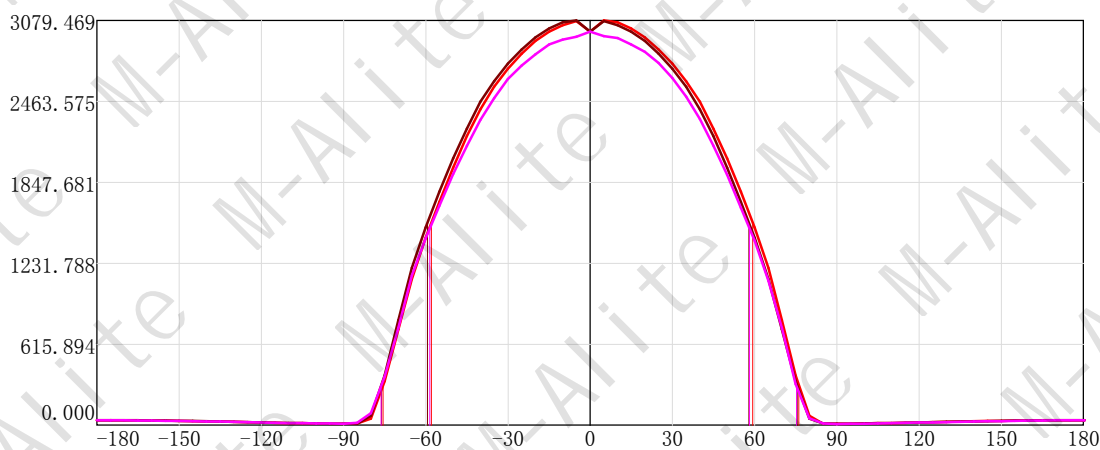
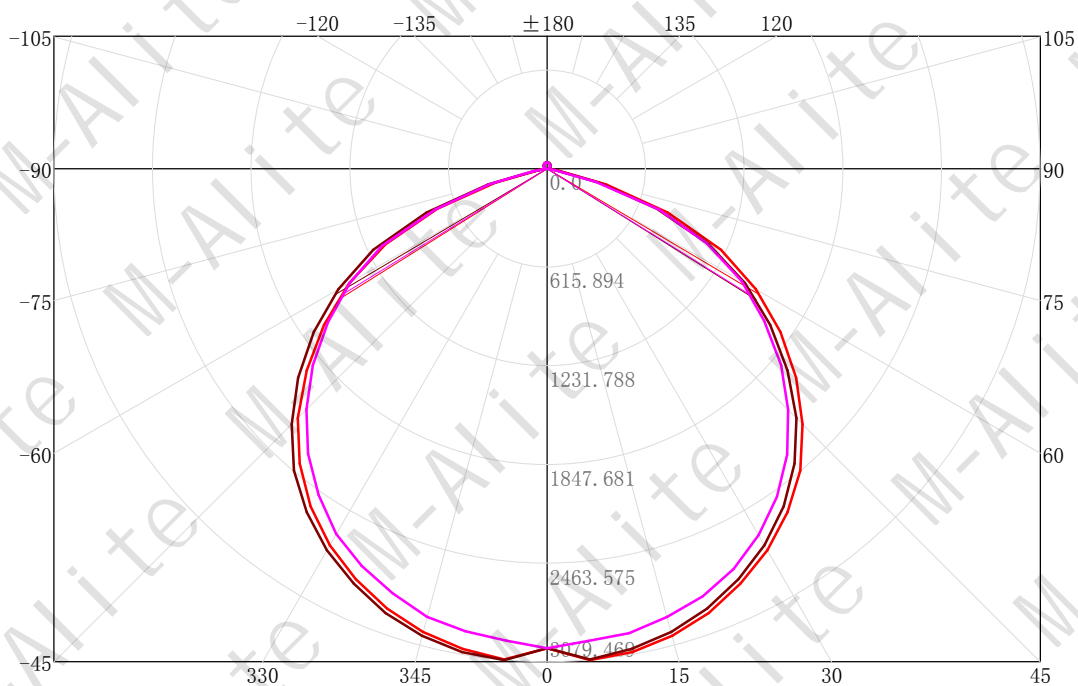
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 8838.950	Luminaire Flux(lm): 8838.951	Field Angle(10%Imax): 151.7(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 8696.136lm 98.38%	
Rated Voltage(V):	Luminaire EER(lm/W): 90.138	Up Lumens&Percent: 142.815lm 1.62%	
Tested Power(W): 98.060	Max. Candela(cd): 3079.469	S/MH: C0_a180=1.348 C90_270=1.306	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 221.2, 0.445, 0.995	Beam Angle(50%Imax): 117.3(°)	ErP Φuse(120°): 7130.723lm	
Lamp Size (W*L*H): 0.000m*0.000m*0.000m	Left=-57.9°, Right=59.4°	IRF (%): 104.550	



2D Plane Light Intensity Distribution Curve

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

C Plane Distribution Diagram

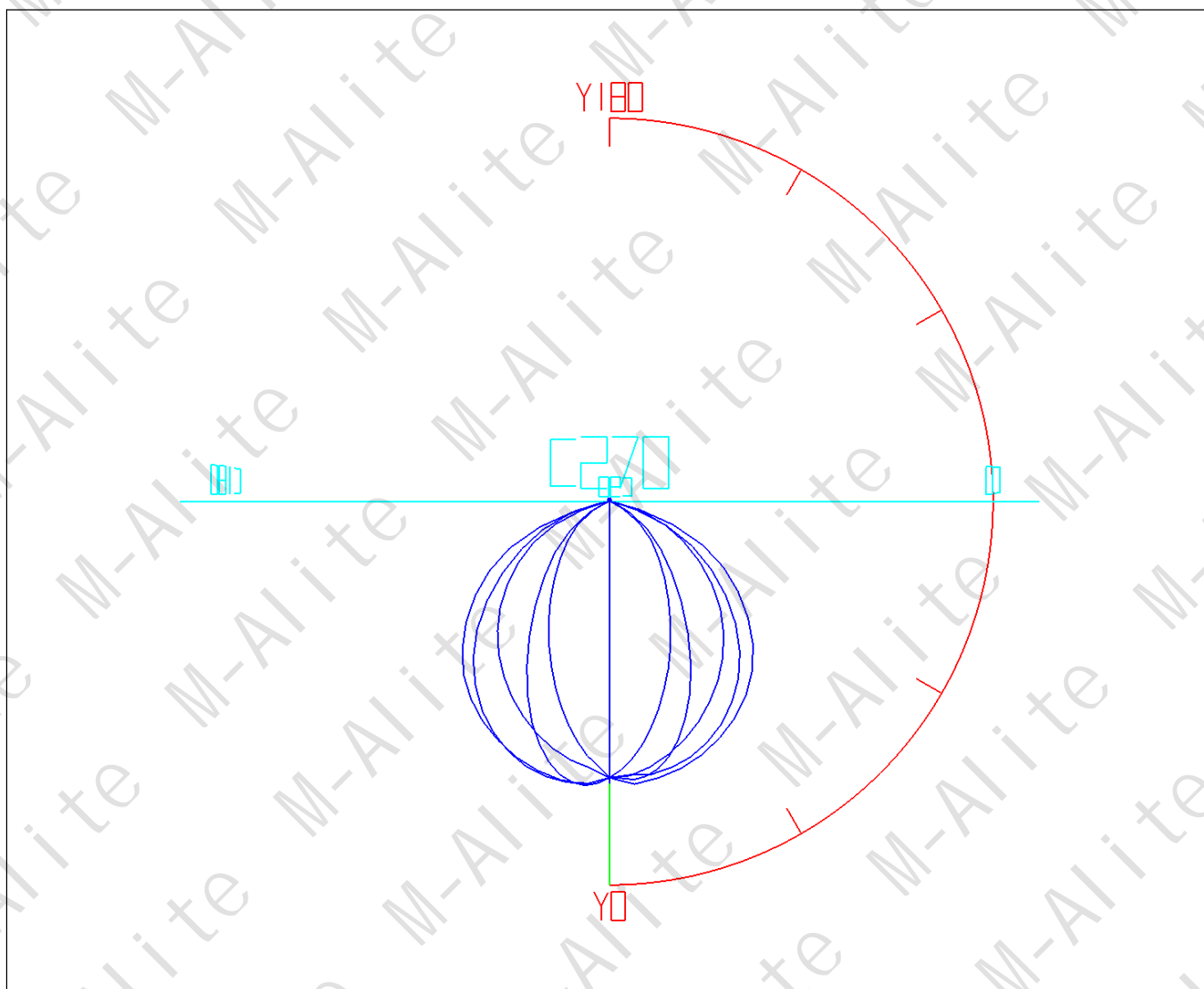


	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C180.0_360.0 :	117.3	151.7	
—	C0.0_180.0 :	117.3	151.7	
—	C90.0_270.0 :	116.6	151.6	

3D Light Intensity Distribution Modal

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

3D Light Intensity Distribution Modal



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

IES Indoor Report
Photometric Filename:AF13-100W.IES

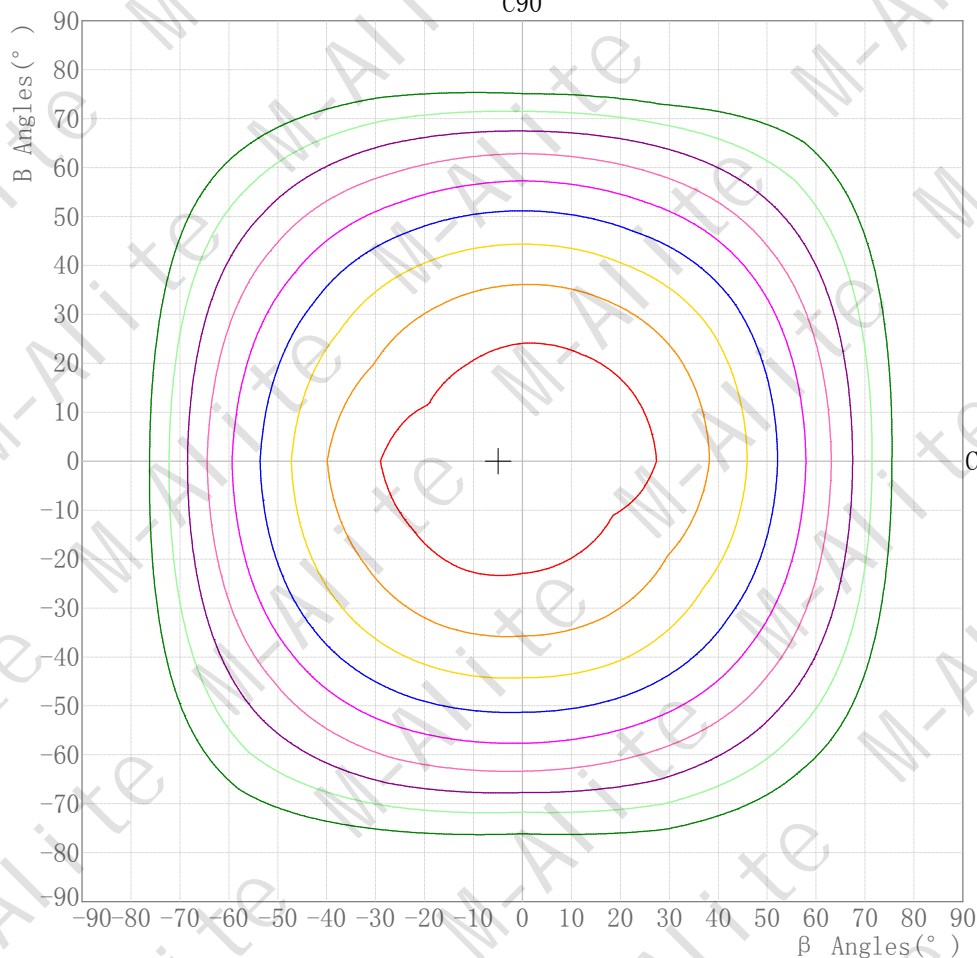
Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	71.51	71.51	0.81	0.81
5.0-10.0	213.08	284.60	2.41	3.22
10.0-15.0	349.44	634.04	3.95	7.17
15.0-20.0	476.18	1110.22	5.39	12.56
20.0-25.0	589.71	1699.93	6.67	19.23
25.0-30.0	686.27	2386.21	7.76	27.00
30.0-35.0	762.38	3148.58	8.63	35.62
35.0-40.0	814.16	3962.74	9.21	44.83
40.0-45.0	837.06	4799.80	9.47	54.30
45.0-50.0	828.27	5628.07	9.37	63.67
50.0-55.0	786.97	6415.04	8.90	72.58
55.0-60.0	714.81	7129.85	8.09	80.66
60.0-65.0	614.68	7744.53	6.95	87.62
65.0-70.0	479.25	8223.78	5.42	93.04
70.0-75.0	303.21	8526.99	3.43	96.47
75.0-80.0	129.91	8656.90	1.47	97.94
80.0-85.0	31.56	8688.46	0.36	98.30
85.0-90.0	7.68	8696.14	0.09	98.38
90.0-95.0	6.64	8702.77	0.08	98.46
95.0-100.0	7.23	8710.00	0.08	98.54
100.0-105.0	7.97	8717.97	0.09	98.63
105.0-110.0	8.74	8726.71	0.10	98.73
110.0-115.0	9.45	8736.15	0.11	98.84
115.0-120.0	10.02	8746.18	0.11	98.95
120.0-125.0	10.45	8756.63	0.12	99.07
125.0-130.0	10.71	8767.34	0.12	99.19
130.0-135.0	10.80	8778.14	0.12	99.31
135.0-140.0	10.65	8788.79	0.12	99.43
140.0-145.0	10.27	8799.05	0.12	99.55
145.0-150.0	9.59	8808.65	0.11	99.66
150.0-155.0	8.64	8817.29	0.10	99.75
155.0-160.0	7.45	8824.74	0.08	99.84
160.0-165.0	6.05	8830.79	0.07	99.91
165.0-170.0	4.48	8835.26	0.05	99.96
170.0-175.0	2.75	8838.02	0.03	99.99
175.0-180.0	0.93	8838.95	0.01	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

ISO Lighting Intensity Curve
 C90



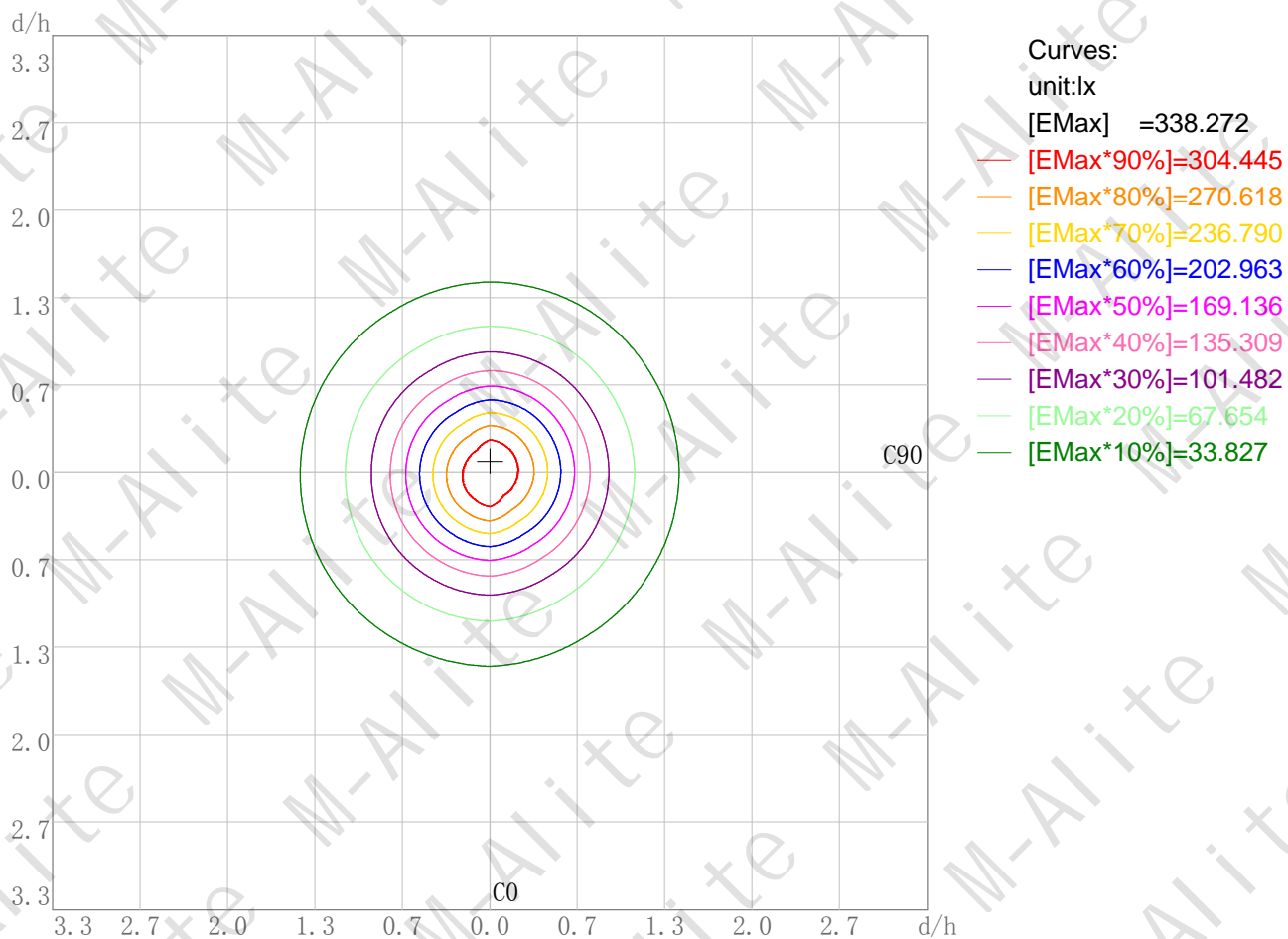
- Curves:
 [Unit: cd]
 [IMax] =3079.469
- [IMax*90%]=2771.522
 - [IMax*80%]=2463.575
 - [IMax*70%]=2155.628
 - [IMax*60%]=1847.681
 - [IMax*50%]=1539.734
 - [IMax*40%]=1231.788
 - [IMax*30%]=923.841
 - [IMax*20%]=615.894
 - [IMax*10%]=307.947

Maximum Light Intensity(cd): 3079.47
 Maximum Cand.@Angle: H=-5.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

Plane ISO-Illuminance Curve

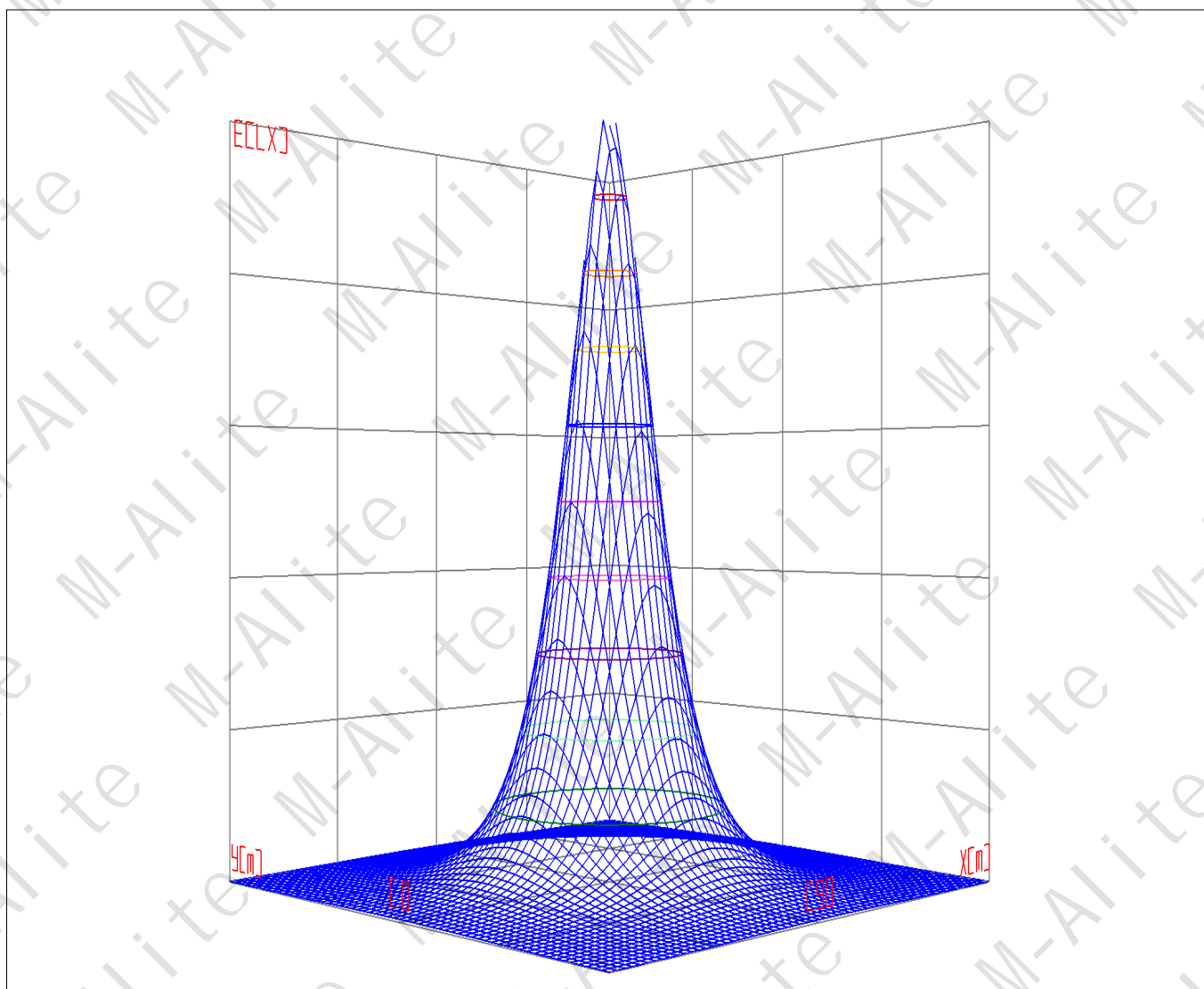


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 338.27
 Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.1

3D Plane ISO Illuminance Diagram

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

3D Plane Illuminance Modal

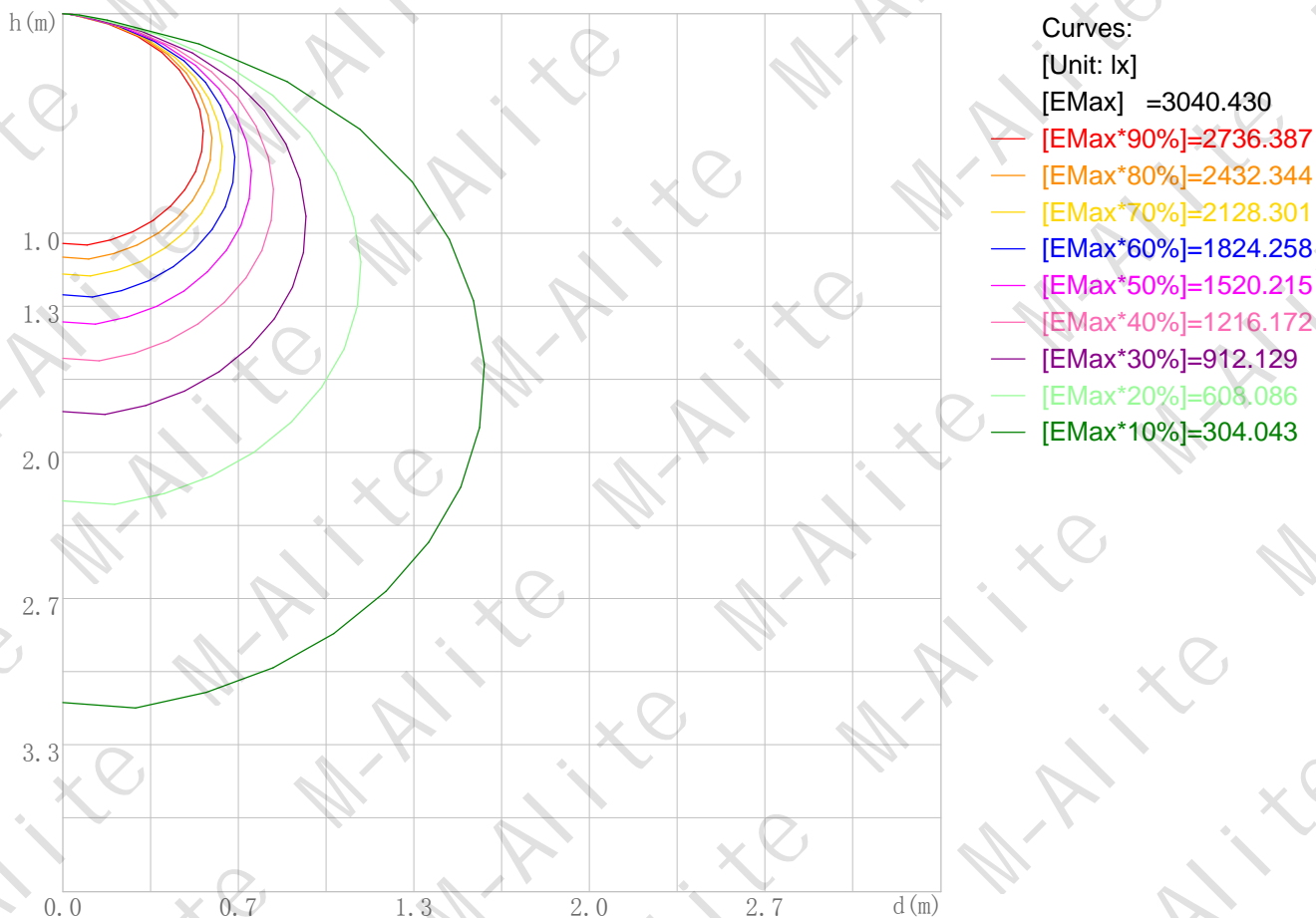


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

Space ISO Illuminance Curve

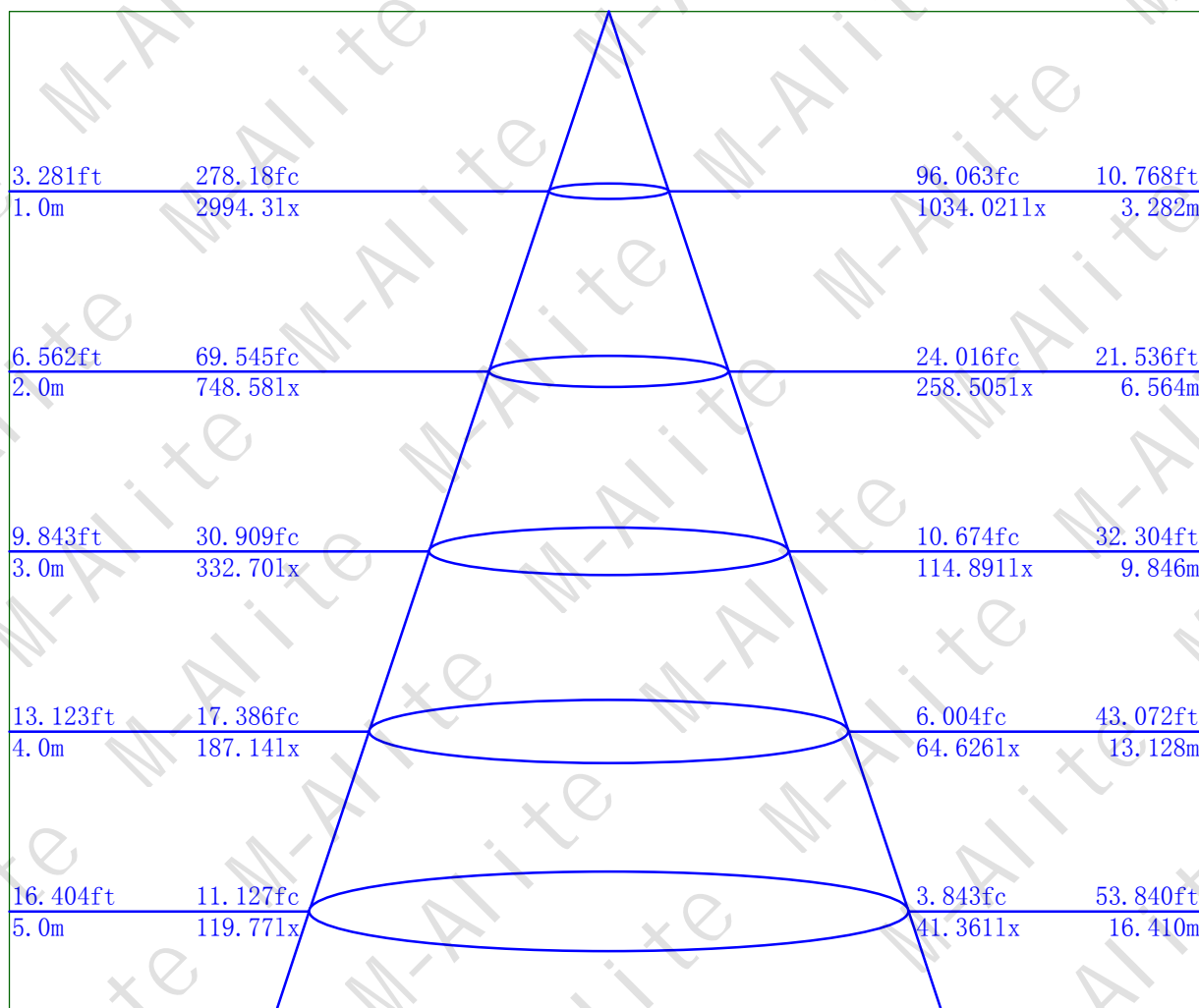


Space Plane Maximum Illuminance and @Angle:3040.43lx,5.0deg
 Plane Maximum Lighting Intensity and @Angle:3075.405cd,0deg

Illuminance-Distance Diagram

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

Illuminance-Distance Curve



Height

Center E

Average E

Diameter

Beam Angle:117.3

Indoor Luminance Limiting Curves

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

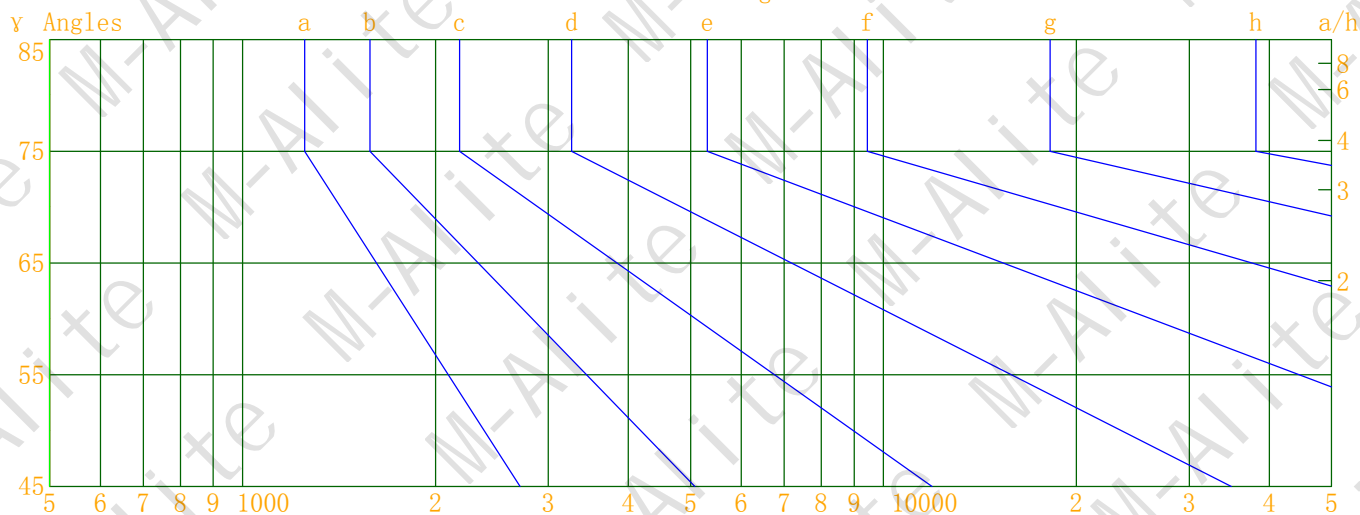
Glare Grade Table

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

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

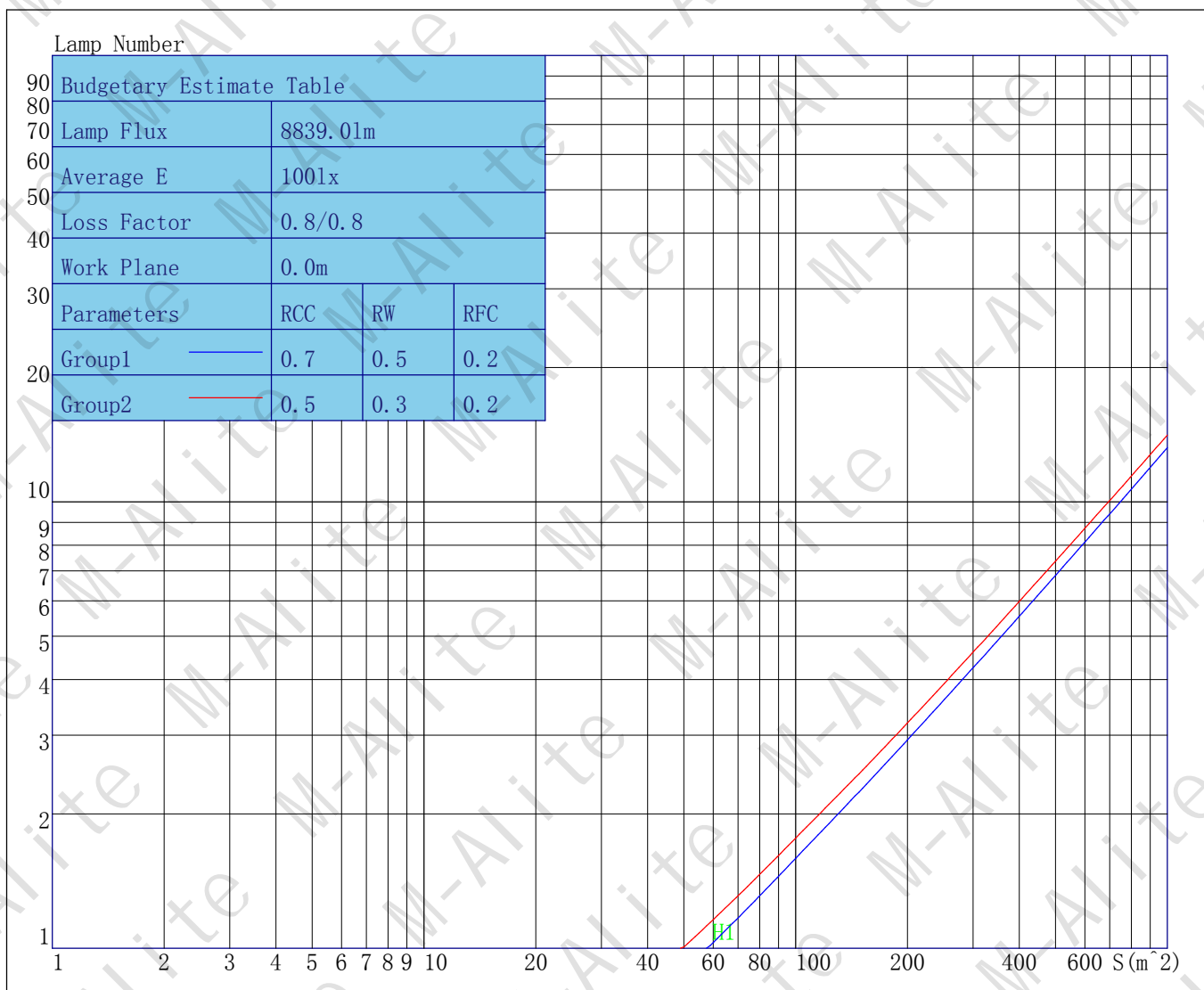
Luminance Limiting Curve



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

Indoor Budgetary Estimate Table

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15



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:AF13-100W.IES

Indoor Coefficient of Utilization Table

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

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	50	30	10	0
RCR	Coefficient of Utilization (%)																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98			
1	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84			
2	99	92	85	80	97	90	84	78	86	81	76	82	78	74	79	76	73	70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	65	62	59			
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51			
5	76	64	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	63	51	43	37	49	42	36	48	41	36	46	40	36	34			
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30			
9	56	43	35	29	55	42	35	29	41	34	29	40	33	29	39	33	29	27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24			

IES Indoor Report
Photometric Filename:AF13-100W.IES

Unified Glare Rating Table

Lum. Name: AF13-100W	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/05/15

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	5.8	7.4	6.2	7.8	8.1	5.8	7.4	6.2	7.8	8.1
Y=3H	5.7	7.1	6.1	7.5	7.9	5.7	7.1	6.1	7.5	7.9
Y=4H	5.7	7.0	6.1	7.4	7.8	5.7	7.0	6.1	7.4	7.8
Y=6H	5.6	6.8	6.0	7.2	7.7	5.6	6.8	6.0	7.2	7.7
Y=8H	5.6	6.7	6.0	7.2	7.6	5.6	6.7	6.0	7.2	7.6
Y=12H	5.5	6.7	6.0	7.1	7.5	5.5	6.7	6.0	7.1	7.5
X=4H Y=2H	5.7	7.0	6.1	7.4	7.8	5.7	7.0	6.1	7.4	7.8
Y=3H	5.5	6.6	6.0	7.1	7.5	5.5	6.6	6.0	7.1	7.5
Y=4H	5.5	6.5	5.9	6.9	7.4	5.5	6.5	5.9	6.9	7.4
Y=6H	5.4	6.3	5.9	6.8	7.3	5.4	6.3	5.9	6.8	7.3
Y=8H	5.4	6.2	5.9	6.7	7.2	5.4	6.2	5.9	6.7	7.2
Y=12H	5.4	6.1	5.9	6.6	7.1	5.4	6.1	5.9	6.6	7.1
X=8H Y=4H	5.4	6.2	5.9	6.7	7.2	5.4	6.2	5.9	6.7	7.2
Y=6H	5.3	6.0	5.8	6.5	7.1	5.3	6.0	5.8	6.5	7.1
Y=8H	5.3	5.9	5.8	6.4	6.9	5.3	5.9	5.8	6.4	6.9
Y=12H	5.3	5.8	5.8	6.3	6.9	5.3	5.8	5.8	6.3	6.9
X=12H Y=4H	5.4	6.1	5.9	6.6	7.1	5.4	6.1	5.9	6.6	7.1
Y=6H	5.3	5.9	5.8	6.4	6.9	5.3	5.9	5.8	6.4	6.9
Y=8H	5.3	5.8	5.8	6.3	6.9	5.3	5.8	5.8	6.3	6.9
Variations with the objverer 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.

