

IES Indoor Report
Photometric Filename:6W LED Downlight 5000K.IES

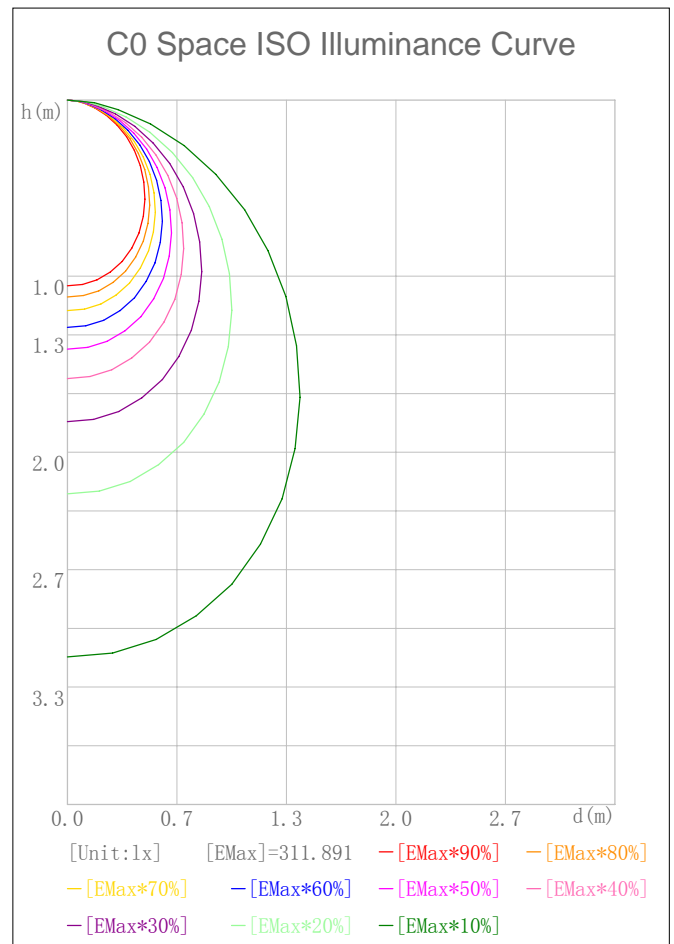
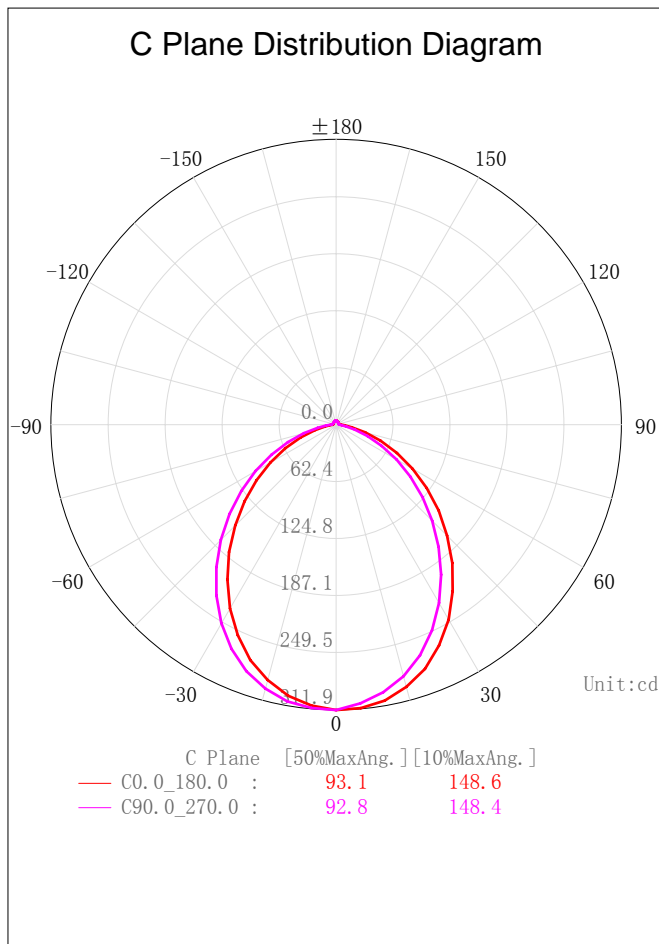
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 6W LED Downlight 5000K		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: 灯具	Test Date: 2017/02/16
Manufacture: 诺明光电		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: 诺明实验室		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=90.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 650.000	Luminary Flux(lm): 722.368	Field Angle(10%Imax): 148.6(°)	
Rated Power(W):	Luminary Efficiency: 111.13%	Down Lumens&Percent: 700.980lm 97.04%	
Rated Voltage(V):	Luminary EER(lm/W): 93.329	Up Lumens&Percent: 21.388lm 2.96%	
Tested Power(W): 7.740	Max. Candela(cd): 311.891	S/MH: C0_a180=1.151 C90_270=1.147	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 220.0, 0.036, 0.955	Beam Angle(50%Imax): 93.1(°)	ErP φ use(120°): 582.612lm	
Lamp Size (W*L*H): 0.000m*0.000m*0.000m	Left=-45.0°, Right=48.1°	IRF(%): 124.722	



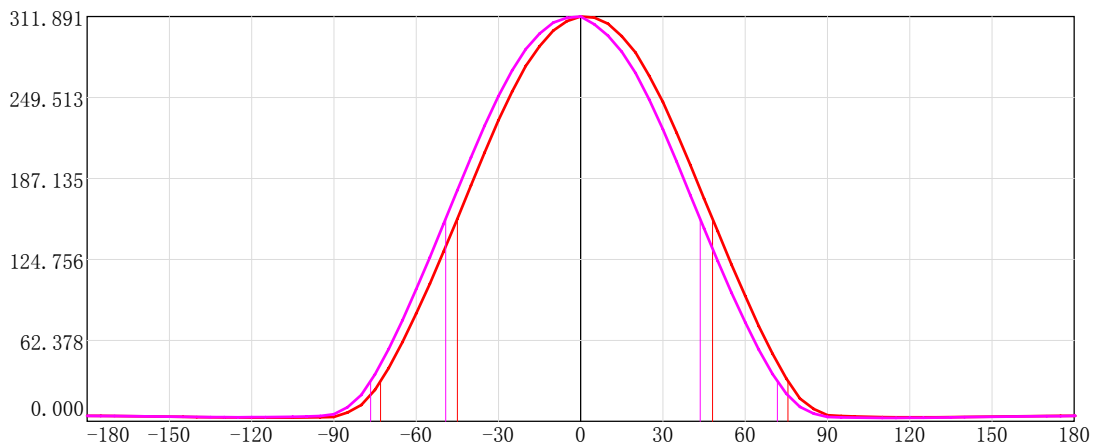
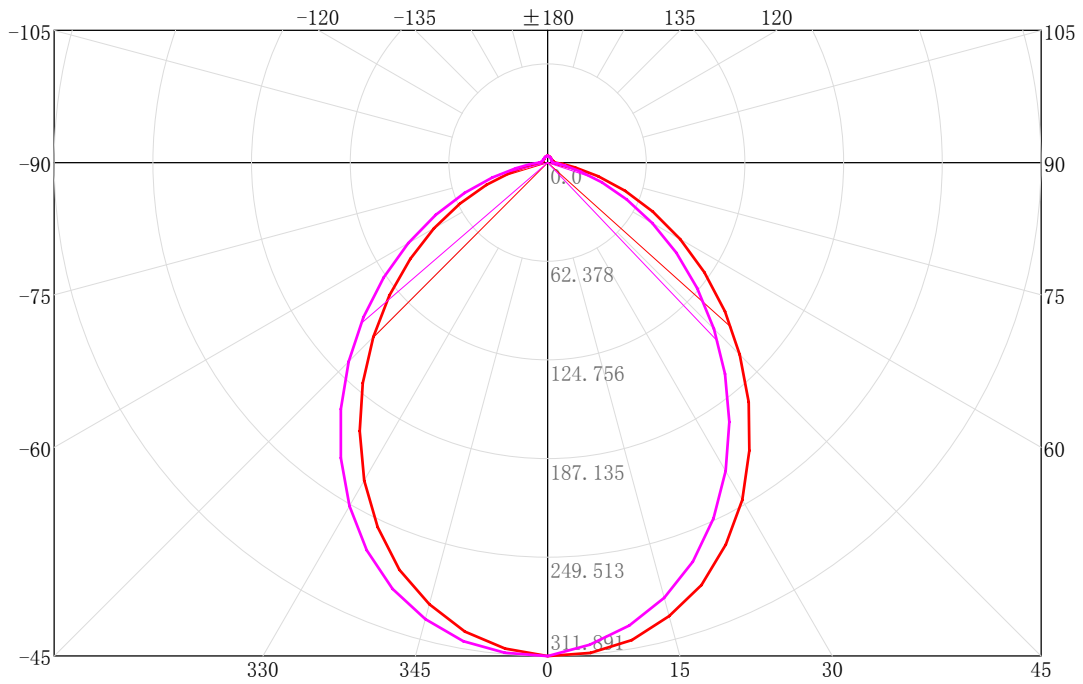
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2D Plane Light Intensity Distribution Curve

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

C Plane Distribution Diagram



C Plane [50%MaxAng.] [10%MaxAng.]
 — C0.0_180.0 : 93.1 148.6
 — C90.0_270.0 : 92.8 148.4

Unit:cd

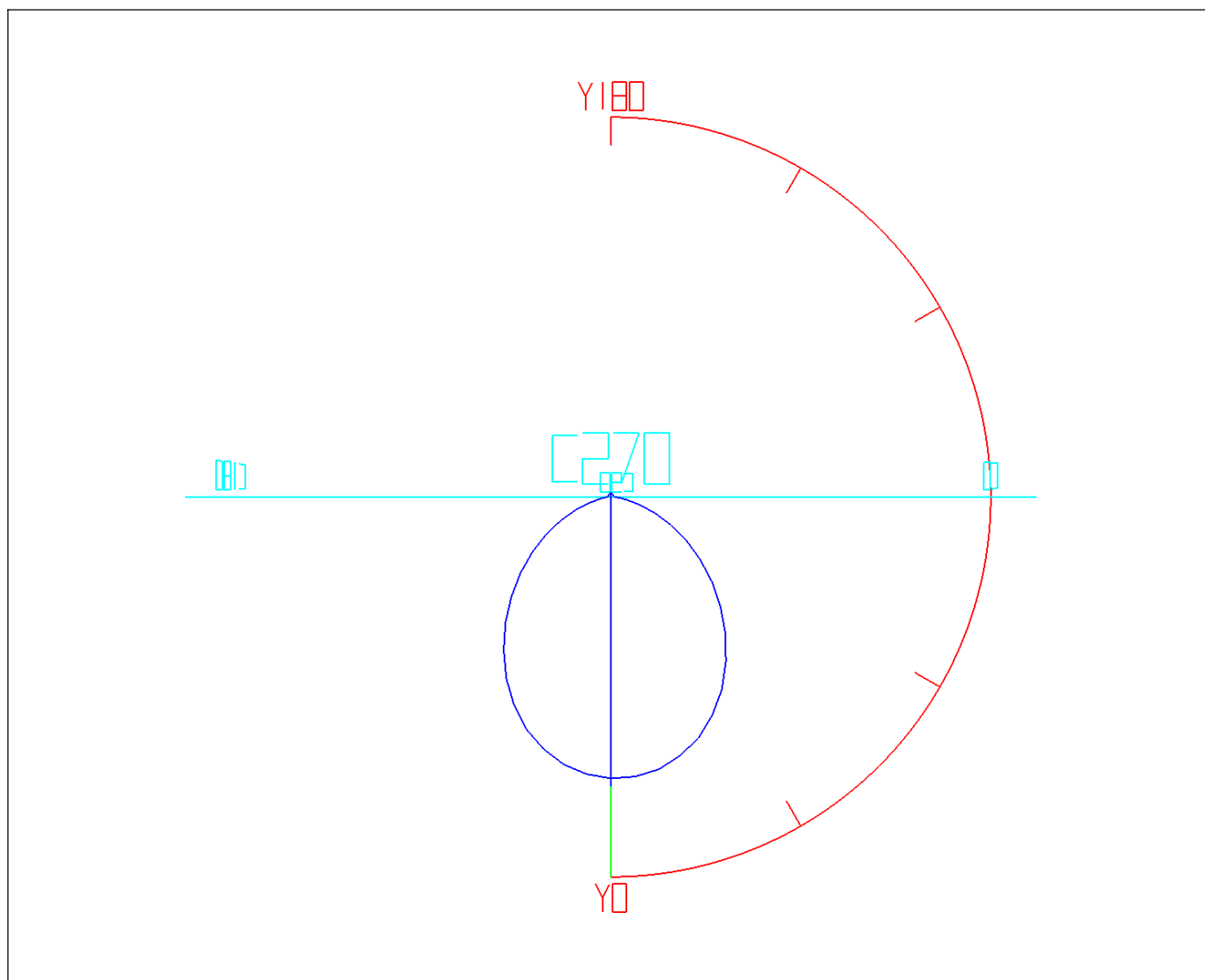
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3D Light Intensity Distribution Modal

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog: 灯具	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine: GON-2000	Test Date: 2017/02/16

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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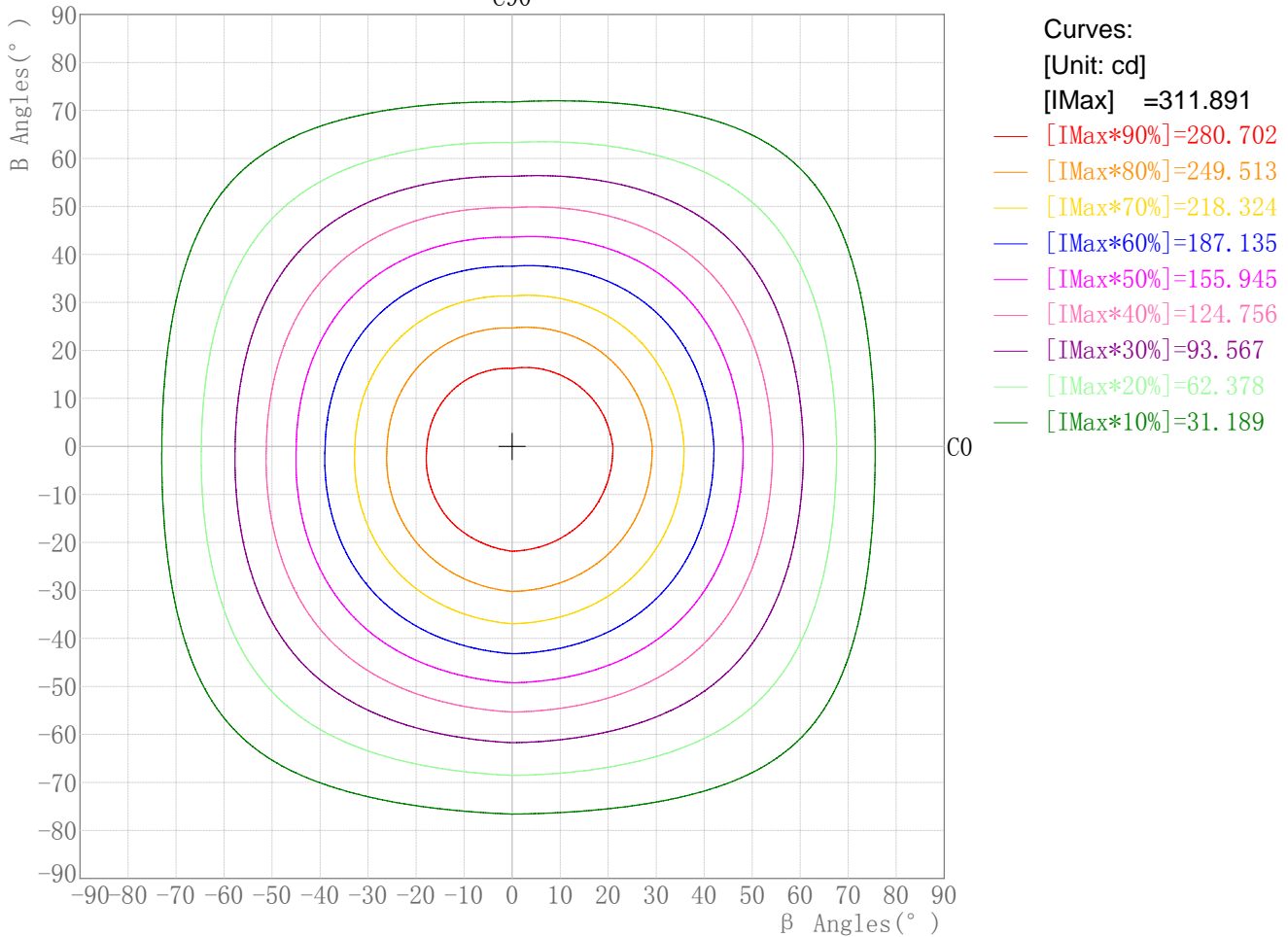
Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	7.42	7.42	1.14	1.14
5.0-10.0	21.89	29.31	3.37	4.51
10.0-15.0	35.31	64.62	5.43	9.94
15.0-20.0	47.02	111.64	7.23	17.18
20.0-25.0	56.43	168.07	8.68	25.86
25.0-30.0	63.04	231.10	9.70	35.55
30.0-35.0	66.66	297.77	10.26	45.81
35.0-40.0	67.34	365.10	10.36	56.17
40.0-45.0	65.32	430.42	10.05	66.22
45.0-50.0	60.94	491.36	9.38	75.59
50.0-55.0	54.63	545.98	8.40	84.00
55.0-60.0	46.83	592.81	7.20	91.20
60.0-65.0	38.01	630.82	5.85	97.05
65.0-70.0	28.70	659.52	4.42	101.46
70.0-75.0	19.65	679.17	3.02	104.49
75.0-80.0	11.84	691.01	1.82	106.31
80.0-85.0	6.50	697.50	1.00	107.31
85.0-90.0	3.47	700.98	0.53	107.84
90.0-95.0	2.18	703.16	0.34	108.18
95.0-100.0	1.93	705.09	0.30	108.48
100.0-105.0	1.78	706.87	0.27	108.75
105.0-110.0	1.65	708.52	0.25	109.00
110.0-115.0	1.56	710.08	0.24	109.24
115.0-120.0	1.48	711.56	0.23	109.47
120.0-125.0	1.42	712.98	0.22	109.69
125.0-130.0	1.36	714.34	0.21	109.90
130.0-135.0	1.30	715.64	0.20	110.10
135.0-140.0	1.23	716.87	0.19	110.29
140.0-145.0	1.15	718.02	0.18	110.46
145.0-150.0	1.06	719.07	0.16	110.63
150.0-155.0	0.94	720.02	0.14	110.77
155.0-160.0	0.81	720.82	0.12	110.90
160.0-165.0	0.66	721.48	0.10	111.00
165.0-170.0	0.49	721.97	0.07	111.07
170.0-175.0	0.30	722.27	0.05	111.12
175.0-180.0	0.10	722.37	0.02	111.13

Rectangle ISO Lighting Intensity Diagram

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

ISO Lighting Intensity Curve
 C90



Maximum Light Intensity(cd): 311.89
 Maximum Cand.@Angle: H=0.0°,V=0.0°

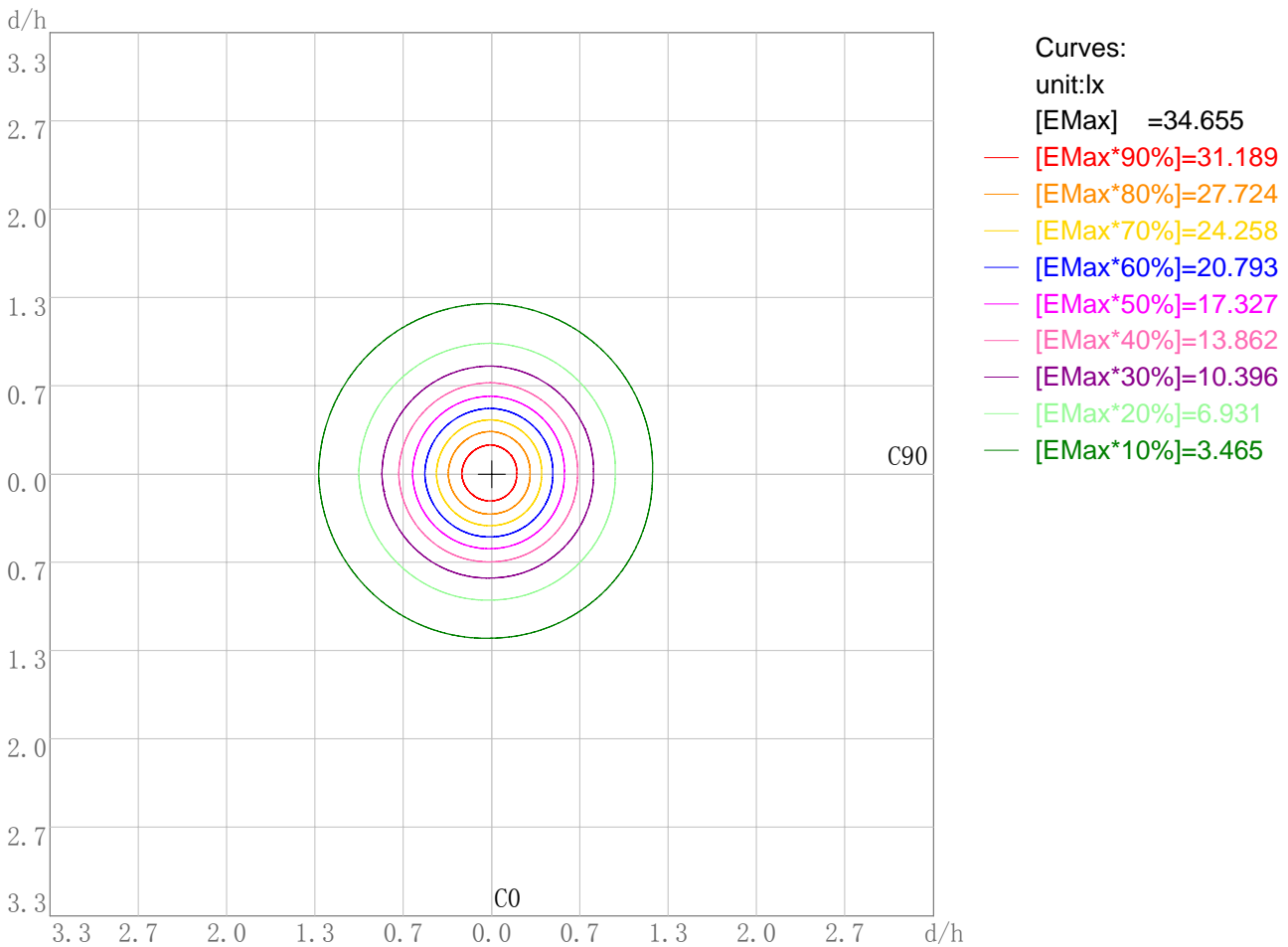
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Plane ISO-Illuminance Diagram

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Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine: GON-2000	Test Date: 2017/02/16

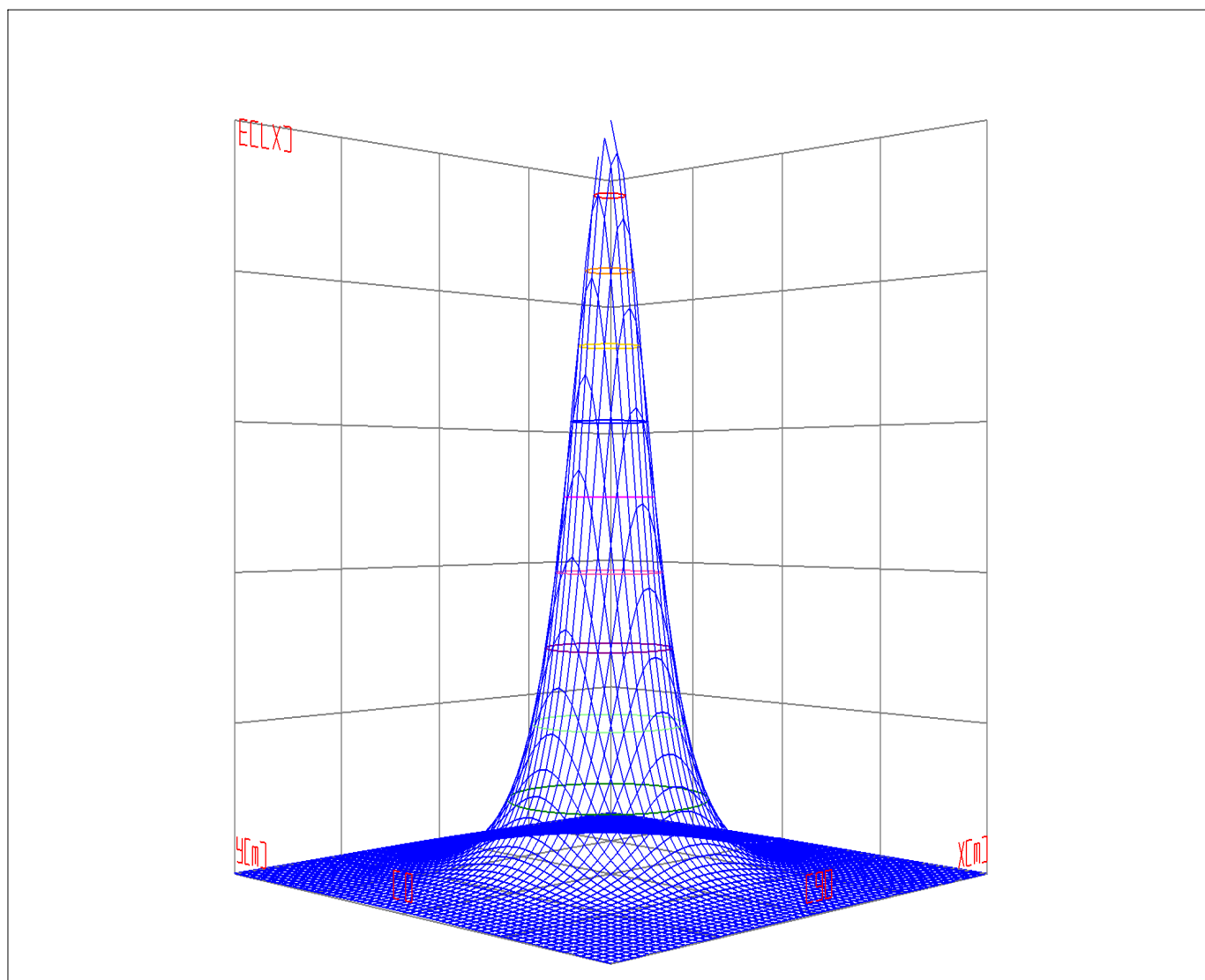
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

3D Plane Illuminance Modal

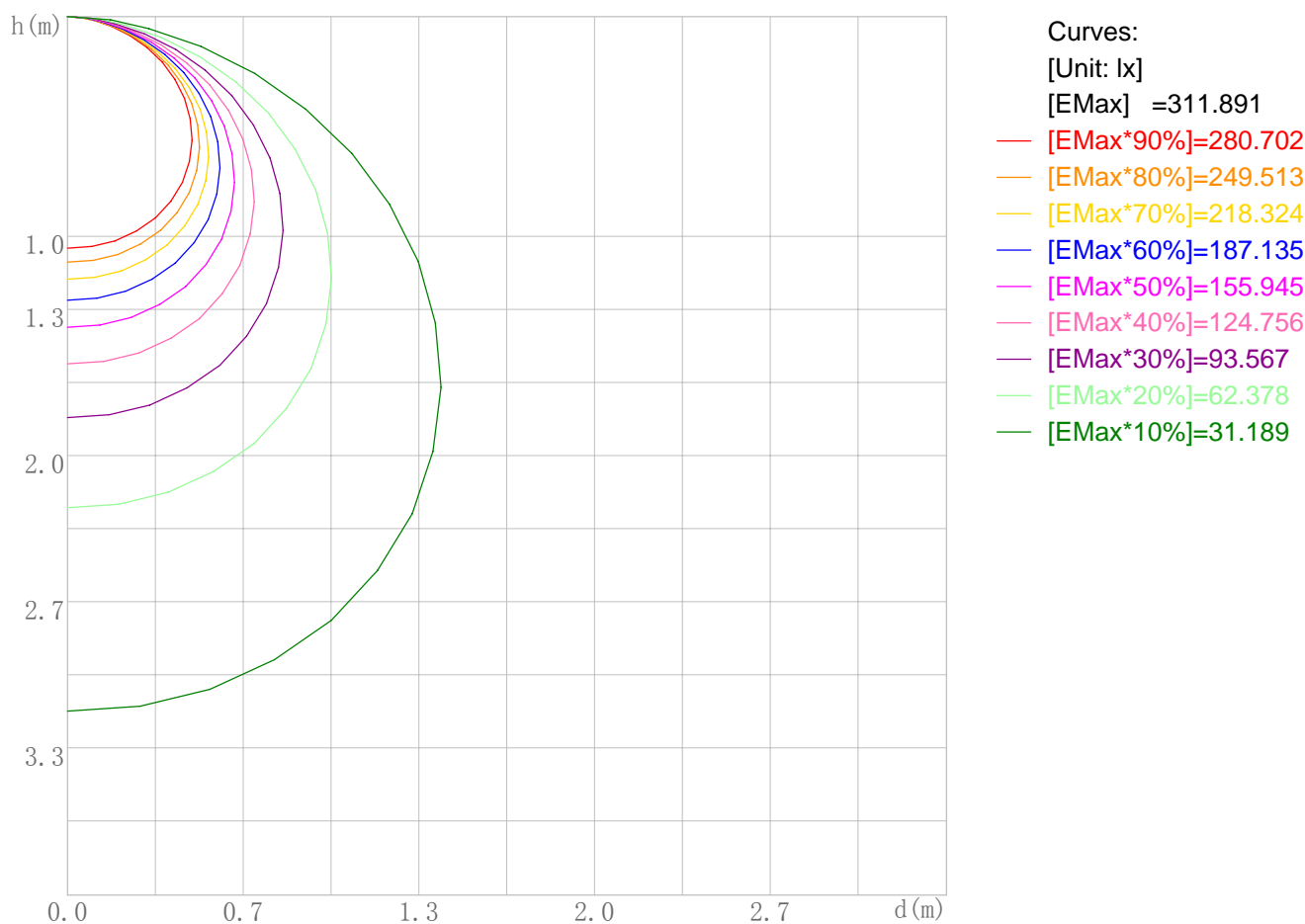


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:311.89lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:311.891cd,0deg

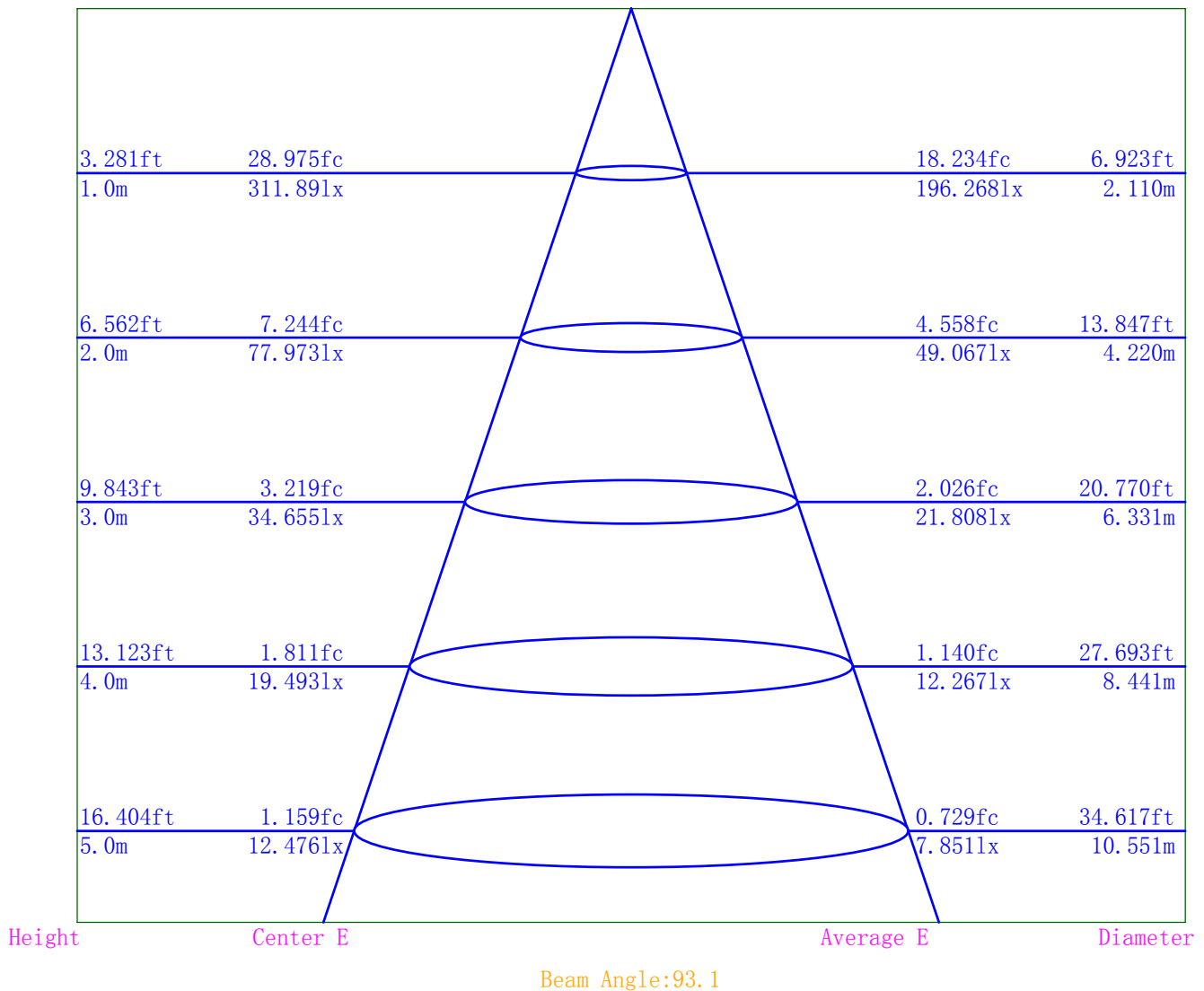
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Illuminance-Distance Diagram

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

Illuminance-Distance Curve



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Indoor Luminance Limiting Curves

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

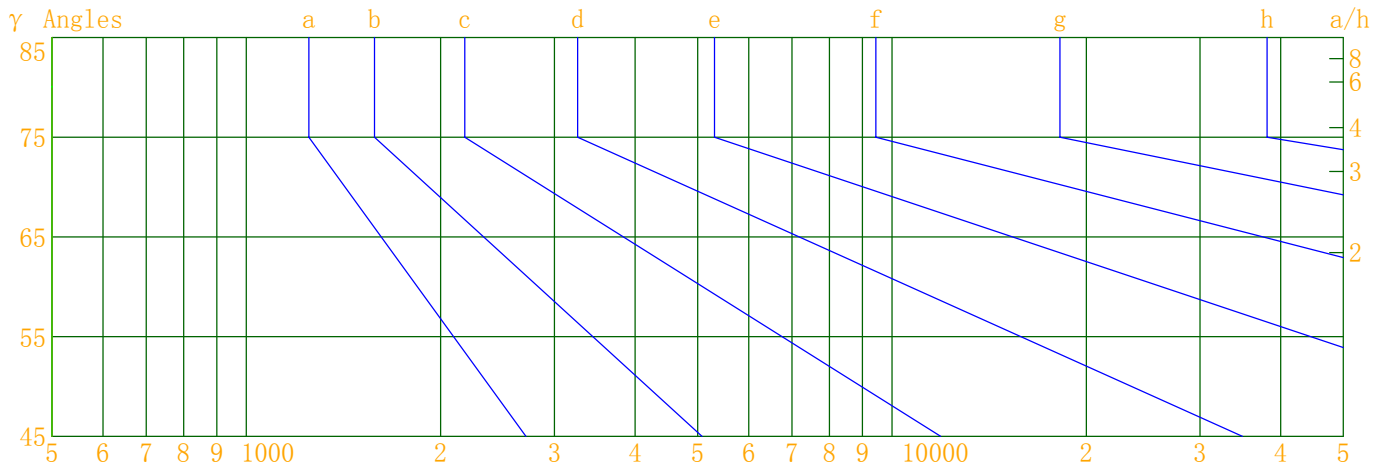
Glare Grade Table

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



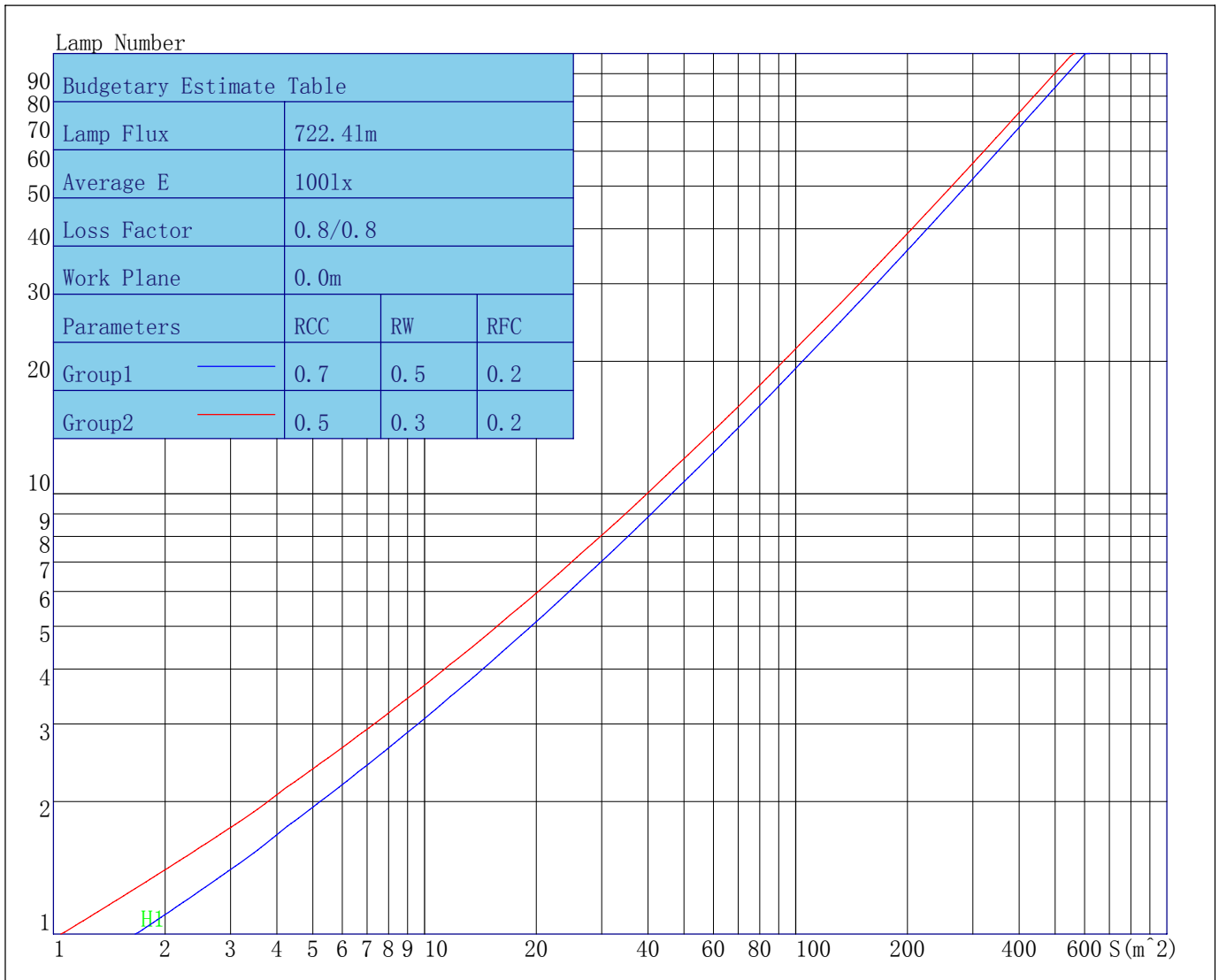
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m²)=0.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16



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

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Indoor Coefficient of Utilization Table

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
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Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

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	132	132	132	132	128	128	128	128	122	122	122	116	116	116	110	110	110	108
1	121	116	112	108	118	114	110	106	108	105	102	103	101	98	99	97	95	93
2	111	103	96	90	108	100	94	89	96	91	86	92	88	84	88	85	81	79
3	102	91	83	76	99	89	81	75	85	79	73	82	76	72	79	74	70	68
4	94	81	72	65	91	80	71	65	77	69	64	74	67	62	71	66	61	59
5	87	73	64	57	84	72	63	57	69	62	56	67	60	55	64	59	54	52
6	80	66	57	50	78	65	56	50	63	55	49	61	54	49	59	53	48	46
7	75	60	51	45	73	59	51	44	57	50	44	56	49	43	54	48	43	41
8	70	55	46	40	68	55	46	40	53	45	40	51	44	39	50	43	39	37
9	65	51	42	36	64	50	42	36	49	41	36	47	40	36	46	40	35	33
10	61	47	39	33	60	47	38	33	45	38	33	44	37	32	43	37	32	30

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Unified Glare Rating Table

Lum. Name: 6W LED Downlight 5000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/16

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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-3.3	-1.7	-2.9	-1.4	-1.0	-3.3	-1.7	-2.9	-1.4	-1.0
Y=3H	-3.5	-2.0	-3.0	-1.6	-1.2	-3.5	-2.0	-3.0	-1.6	-1.2
Y=4H	-3.5	-2.2	-3.1	-1.8	-1.3	-3.5	-2.2	-3.1	-1.8	-1.3
Y=6H	-3.6	-2.3	-3.2	-1.9	-1.4	-3.6	-2.3	-3.2	-1.9	-1.4
Y=8H	-3.6	-2.4	-3.2	-2.0	-1.5	-3.6	-2.4	-3.2	-2.0	-1.5
Y=12H	-3.7	-2.5	-3.2	-2.1	-1.6	-3.7	-2.5	-3.2	-2.1	-1.6
X=4H Y=2H	-3.5	-2.2	-3.1	-1.8	-1.3	-3.5	-2.2	-3.1	-1.8	-1.3
Y=3H	-3.7	-2.5	-3.2	-2.1	-1.6	-3.7	-2.5	-3.2	-2.1	-1.6
Y=4H	-3.8	-2.7	-3.3	-2.2	-1.7	-3.8	-2.7	-3.3	-2.2	-1.7
Y=6H	-3.9	-2.9	-3.4	-2.4	-1.9	-3.9	-2.9	-3.4	-2.4	-1.9
Y=8H	-3.9	-3.0	-3.4	-2.5	-2.0	-3.9	-3.0	-3.4	-2.5	-2.0
Y=12H	-3.9	-3.1	-3.4	-2.6	-2.0	-3.9	-3.1	-3.4	-2.6	-2.0
X=8H Y=4H	-3.9	-3.0	-3.4	-2.5	-2.0	-3.9	-3.0	-3.4	-2.5	-2.0
Y=6H	-4.0	-3.2	-3.5	-2.7	-2.0	-4.0	-3.2	-3.5	-2.7	-2.0
Y=8H	-4.1	-3.3	-3.5	-2.8	-2.2	-4.1	-3.3	-3.5	-2.8	-2.2
Y=12H	-4.1	-3.4	-3.6	-2.9	-2.3	-4.1	-3.4	-3.6	-2.9	-2.3
X=12H Y=4H	-3.9	-3.1	-3.4	-2.6	-2.0	-3.9	-3.1	-3.4	-2.6	-2.0
Y=6H	-4.0	-3.3	-3.5	-2.8	-2.2	-4.0	-3.3	-3.5	-2.8	-2.2
Y=8H	-4.1	-3.4	-3.6	-2.9	-2.3	-4.1	-3.4	-3.6	-2.9	-2.3
Variations with the observer 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				

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

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	311.89	311.89	311.89	311.89
γ 5.0	311.02	305.84	308.29	310.90
γ 10.0	306.40	297.06	300.99	307.18
γ 15.0	296.70	284.72	288.96	298.70
γ 20.0	284.13	268.39	273.86	286.70
γ 25.0	266.32	248.09	254.11	270.40
γ 30.0	246.09	225.00	231.94	250.52
γ 35.0	222.23	200.10	207.05	227.87
γ 40.0	197.61	174.34	181.81	203.35
γ 45.0	171.66	148.65	155.77	177.88
γ 50.0	146.37	123.39	130.61	152.00
γ 55.0	120.89	99.29	105.96	126.41
γ 60.0	96.74	76.39	82.93	101.73
γ 65.0	73.35	55.17	61.16	77.97
γ 70.0	52.09	36.49	41.22	55.90
γ 75.0	33.09	21.35	24.26	36.26
γ 80.0	17.63	11.22	12.75	20.44
γ 85.0	9.64	6.09	6.95	10.92
γ 90.0	4.79	3.40	3.47	5.50
γ 95.0	4.19	3.14	3.23	4.18
γ 100.0	3.81	2.92	3.07	3.84
γ 105.0	3.51	2.81	2.98	3.59
γ 110.0	3.33	2.74	2.93	3.43
γ 115.0	3.21	2.75	2.92	3.33
γ 120.0	3.17	2.79	2.95	3.28
γ 125.0	3.18	2.87	3.02	3.27
γ 130.0	3.25	2.98	3.12	3.30
γ 135.0	3.31	3.11	3.24	3.37
γ 140.0	3.44	3.27	3.38	3.46
γ 145.0	3.55	3.42	3.52	3.56
γ 150.0	3.69	3.57	3.67	3.68
γ 155.0	3.83	3.71	3.82	3.81
γ 160.0	3.96	3.84	3.96	3.93
γ 165.0	4.08	3.97	4.08	4.05
γ 170.0	4.19	4.06	4.19	4.16
γ 175.0	4.27	4.12	4.26	4.24
γ 180.0	4.26	4.26	4.26	4.26