

IES Indoor Report
Photometric Filename:GR-T8RDDG23W-W-O.ies

Indoor Luminaire Photometric Data

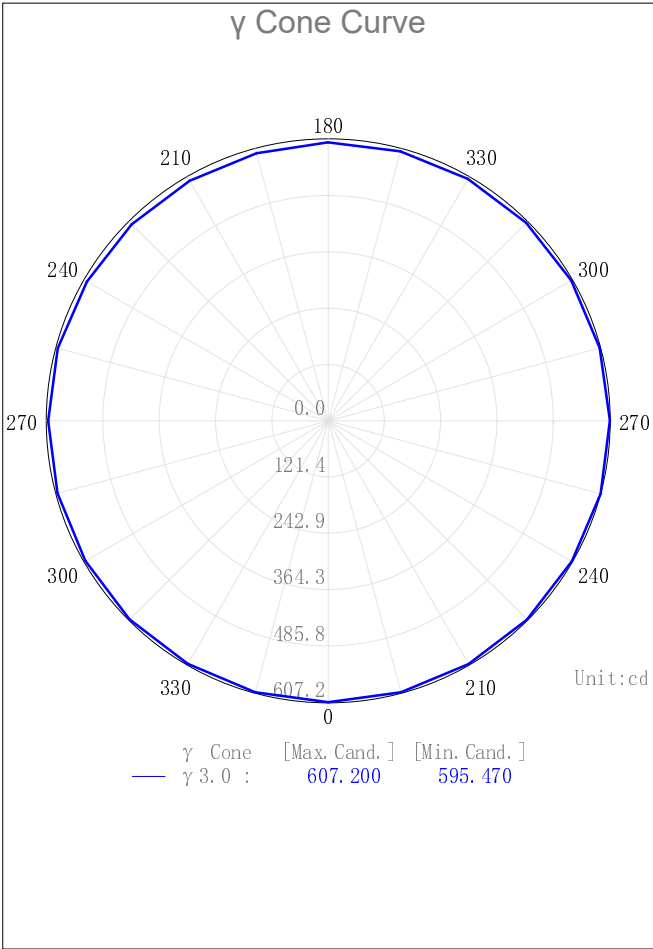
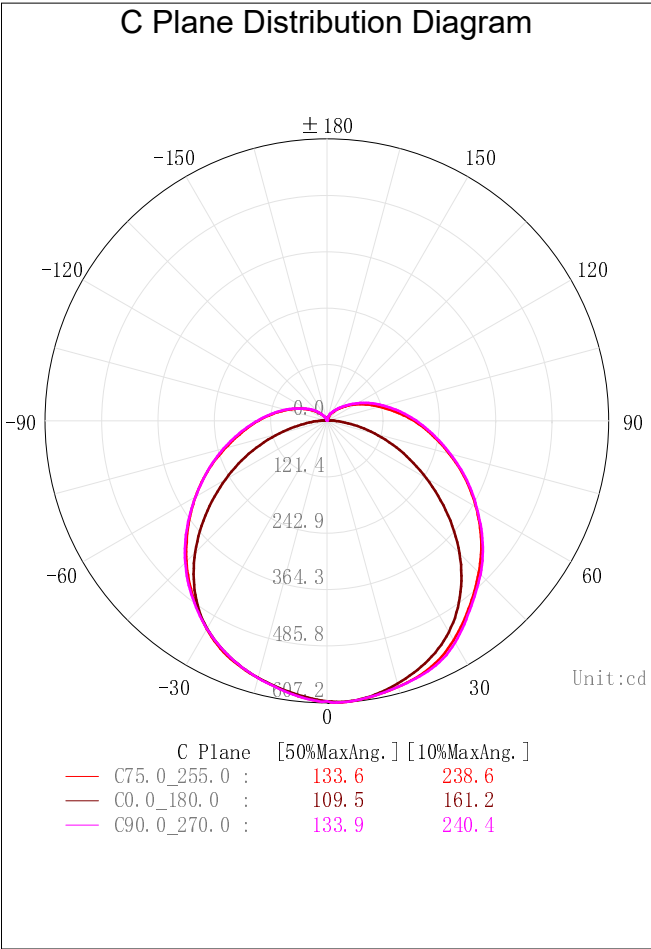
Description Information

Luminary Name:		Lum. Catalog:	Test ID:	2018-05-31
Lamp Name: 0, 0		Lamp Catalog:	Test Date:	2018-05-31 09:42:22
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000	
Test Lab:		Frequency (Hz):	Lamp CCT(K): 4000 Ra: 80	
Lum. Size(W*L*H):1.500m*0.030m*0.020m		Lum. Area(m2):0.046	Lum. W(kg):	
Test System: C, γ	Test Step: C=15.0 γ=1.0	Temp. (°C):	Humidity(%):	

Character Parameter

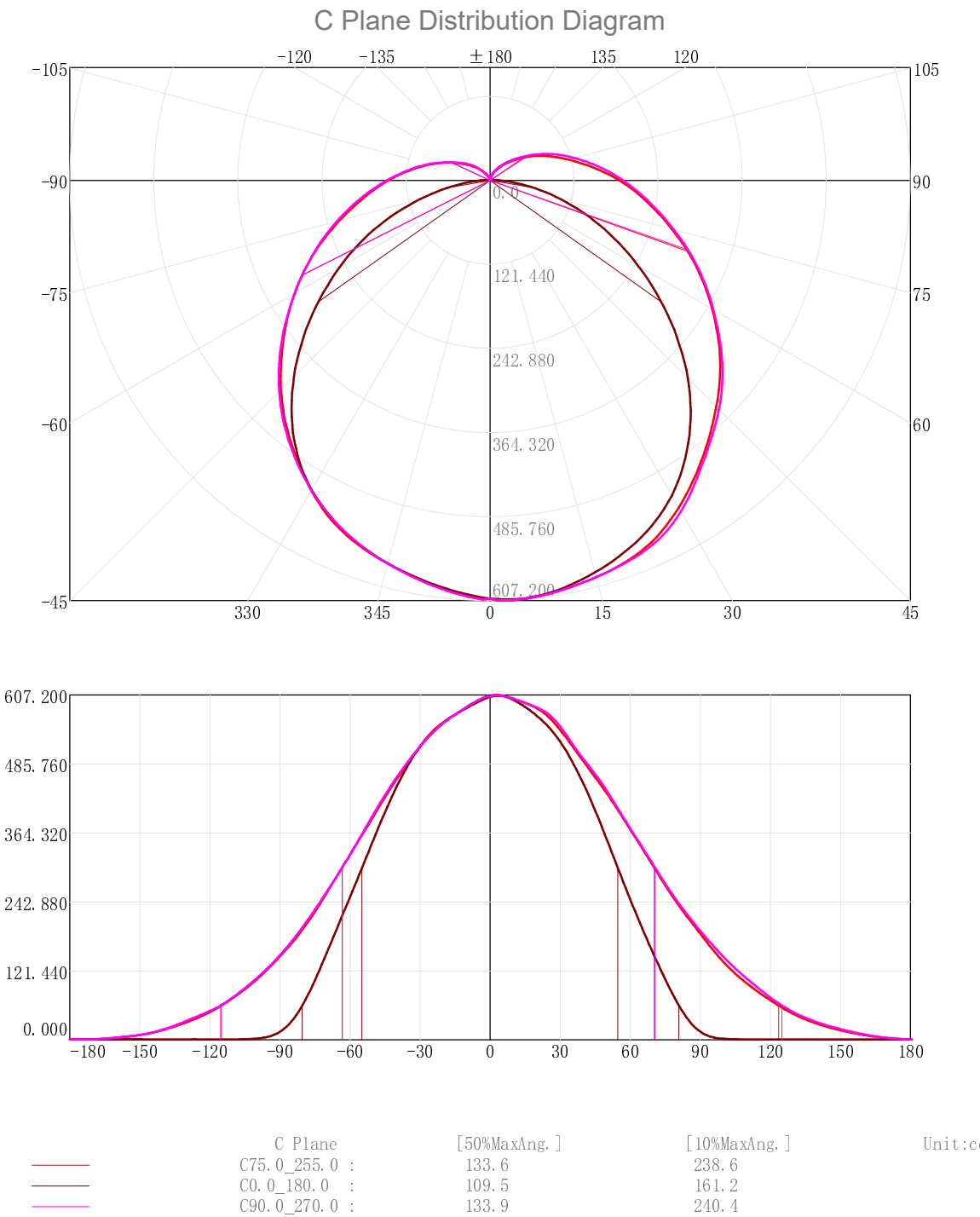
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2303.200	Luminary Flux(lm): 2303.321	Field Angle(10%Imax): 238.6(°)
Rated Power(W):	Luminary Efficiency: 100.01%	Down Lumens&Percent: 2052.113lm 89.09%
Rated Voltage(V):	Luminary EER(lm/W): 99.281	Up Lumens&Percent: 251.208lm 10.91%
Tested Power(W): 23.200	Max. Candela(cd): 607.200	S/MH: C0_a180=1.278 C90_270=1.311
Lamps' Inside: 1	Max Cand@Ang. (°): C=75.0 γ=3.0	CIE Type: General Diffuse
Tested Electrics(V, A, pf): 0.91	Beam Angle(50%Imax): 133.6(°)	ErP Φ use(120°): 1436.795lm
Lamp Size(W*L*H):1.500m*0.030m*0.020m	Left=-63.3(°), Right=70.2(°)	IRF(%): 103.264

Lighting Distribution Diagram



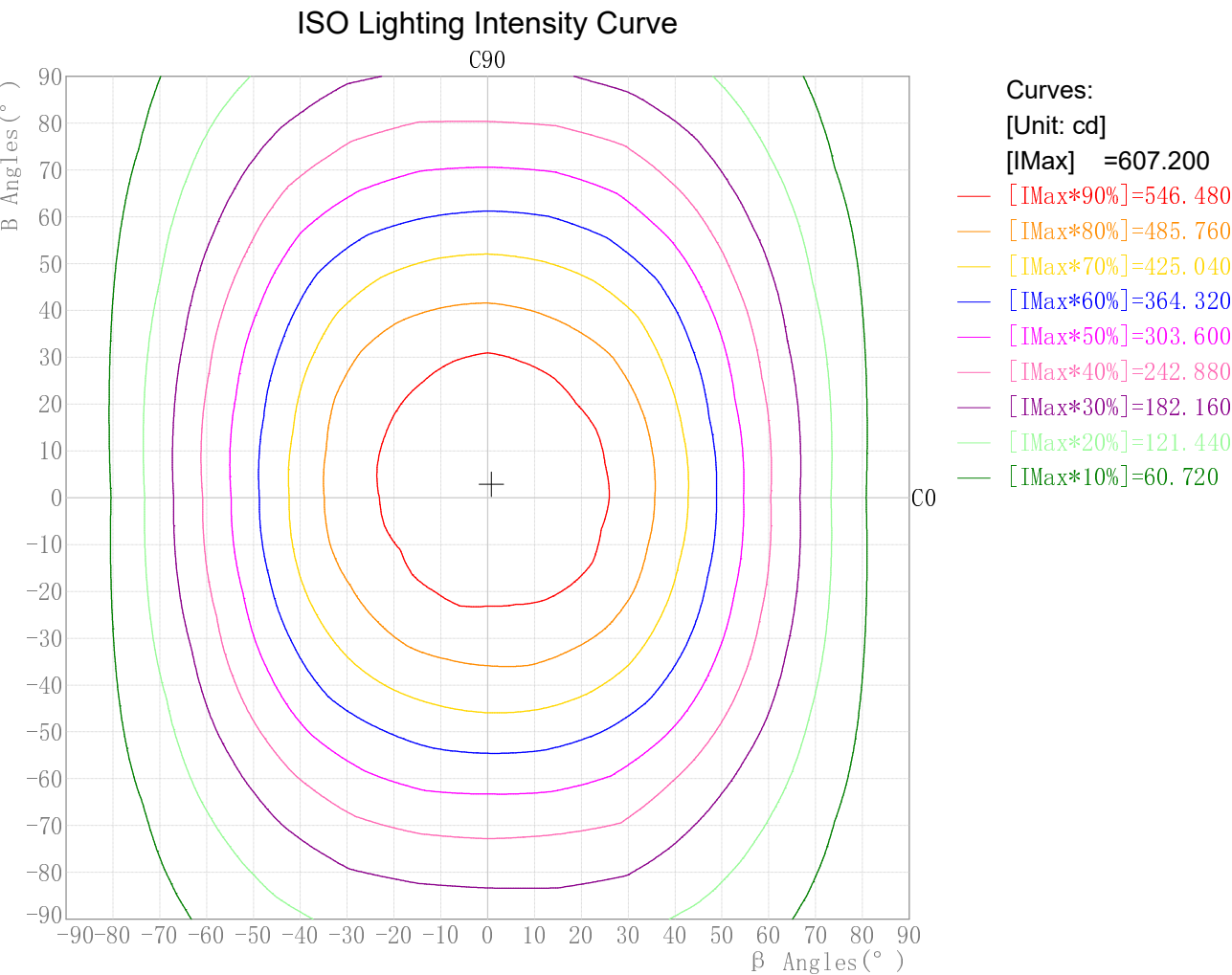
2D Plane Light Intensity Distribution Curve

Lum. Name:	T8-1.5M-23W-W-O 220V	Lum. Catalog:		Test ID:	2018-05-31
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Manufacture:		Test Machine:GON-2000		Test Date:	2018-05-31 09:42:22



Rectangle ISO Lighting Intensity Diagram

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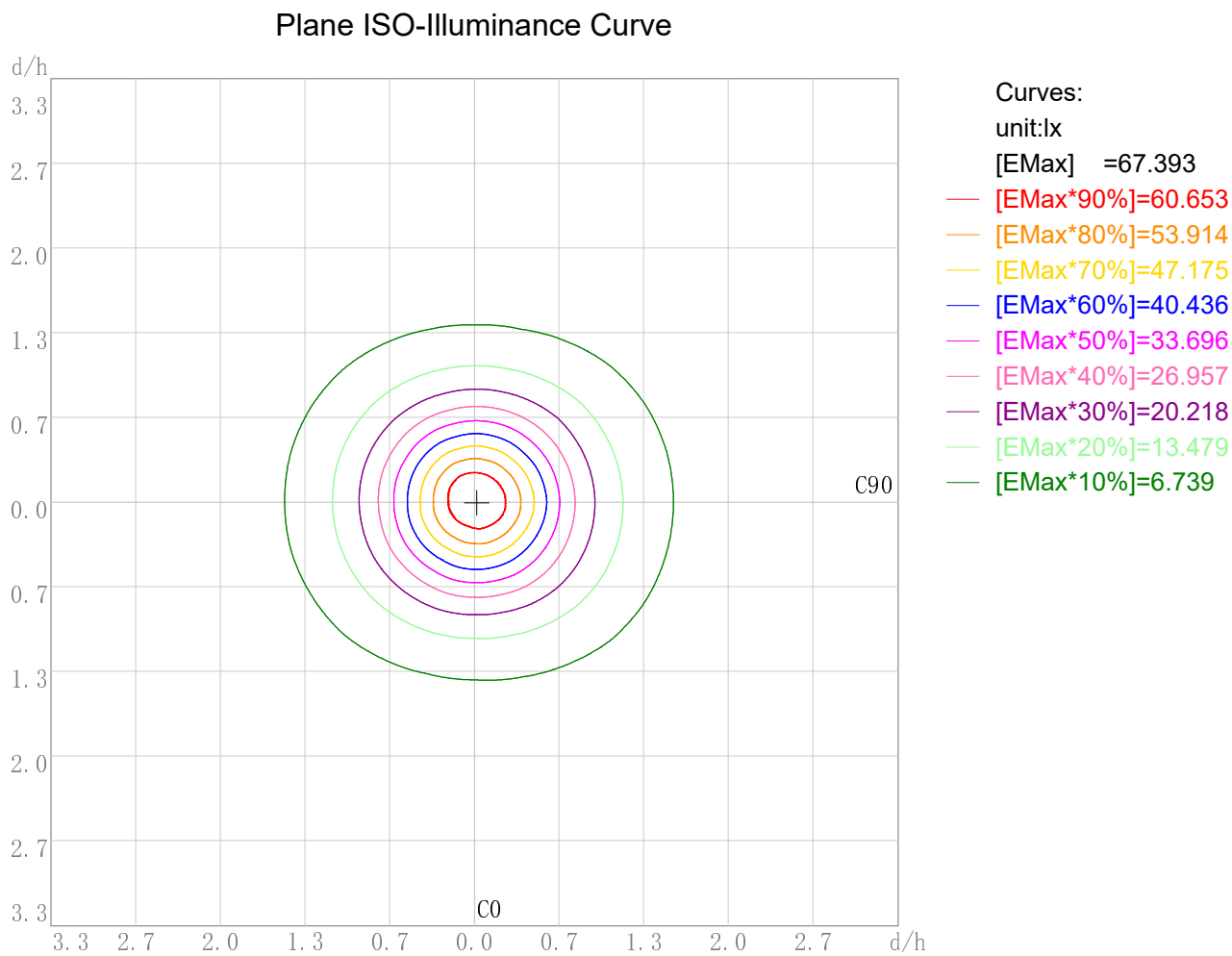


Maximum Light Intensity(cd): 607.20

Maximum Cand.@Angle: H=0.8°,V=2.9°

Plane ISO-Illuminance Diagram

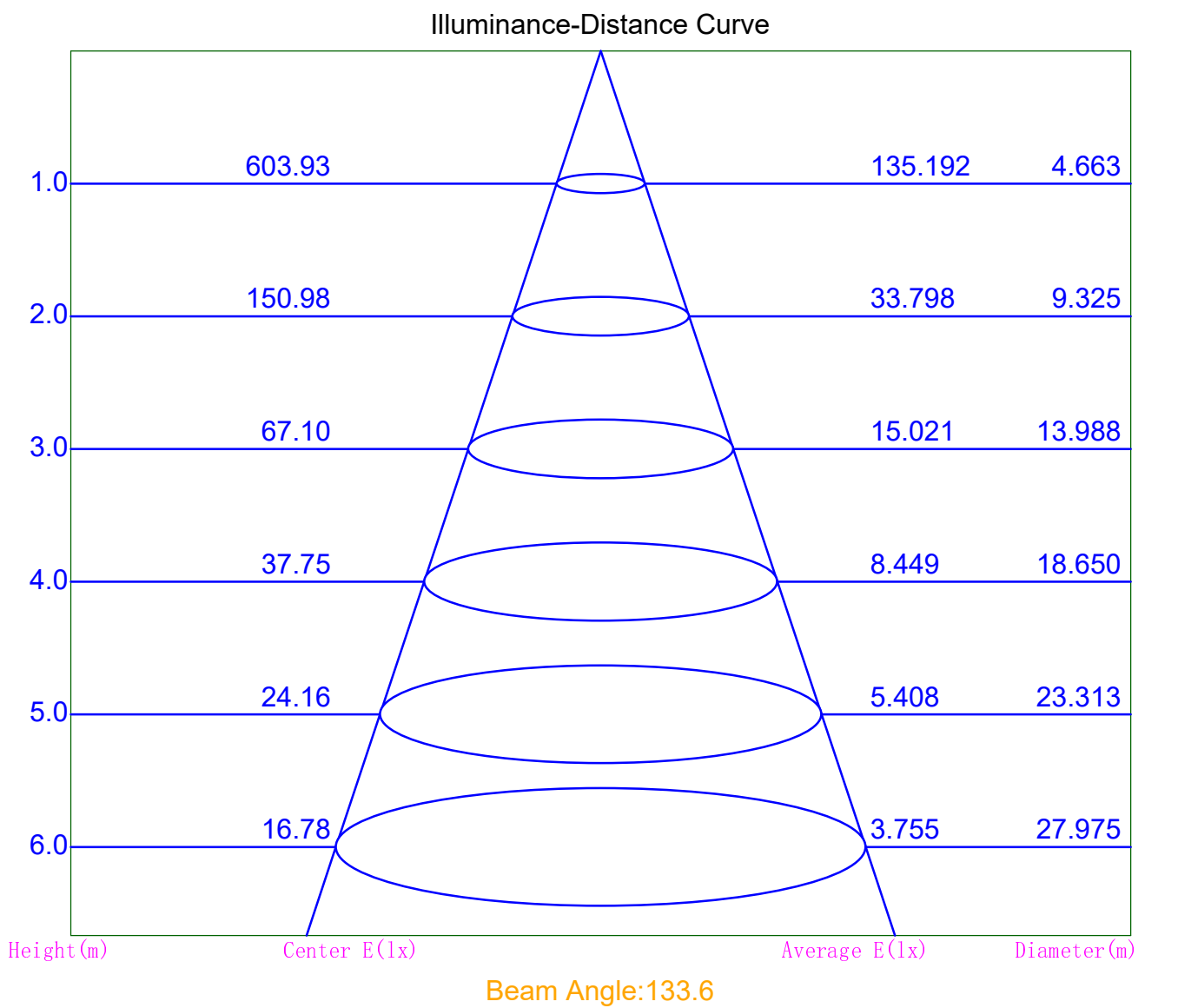
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Manufacture:	Test Machine:GON-2000	Test Date: 2018-05-31 09:42:22



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 67.39
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

Illuminance-Distance Diagram

Lum. Name: T8-1.5M-23W-W-O 220V	Lum. Catalog:	Test ID: 2018-05-31
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Manufacture:	Test Machine:GON-2000	Test Date: 2018-05-31 09:42:22



Indoor Luminance Limiting Curves

Lum. Name: T8-1.5M-23W-W-O 220V	Lum. Catalog:	Test ID: 2018-05-31
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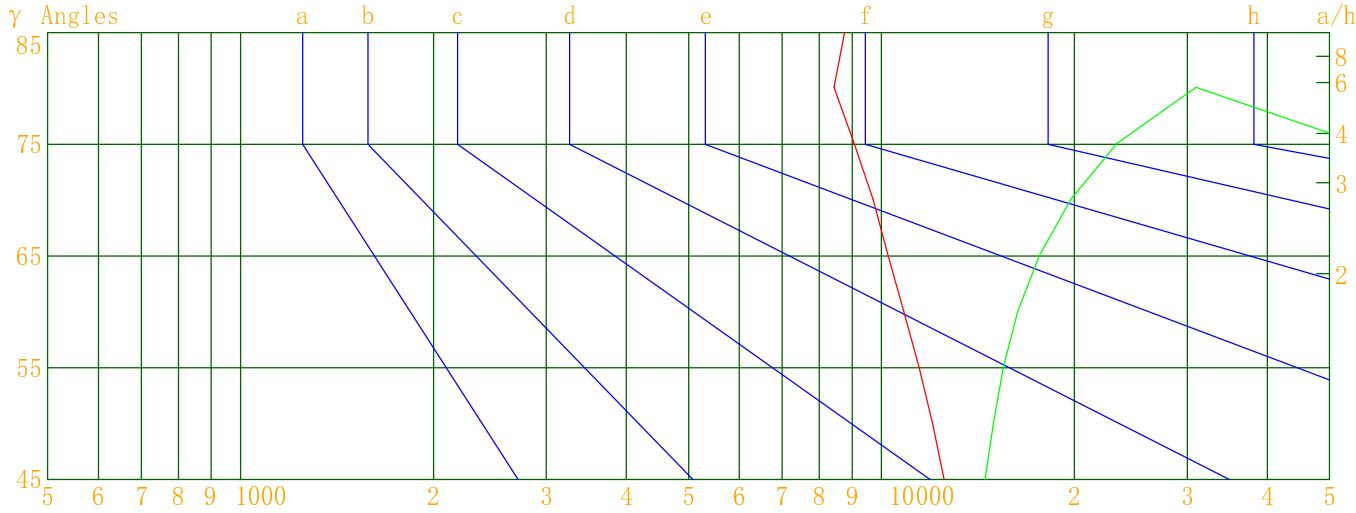
Glare Grade Table

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	12523	12022	11443	10838	10242	9702	9065	8430	8759
C90	14503	14956	15497	16321	17646	19735	23303	30943	54777

Luminance Limiting Curve



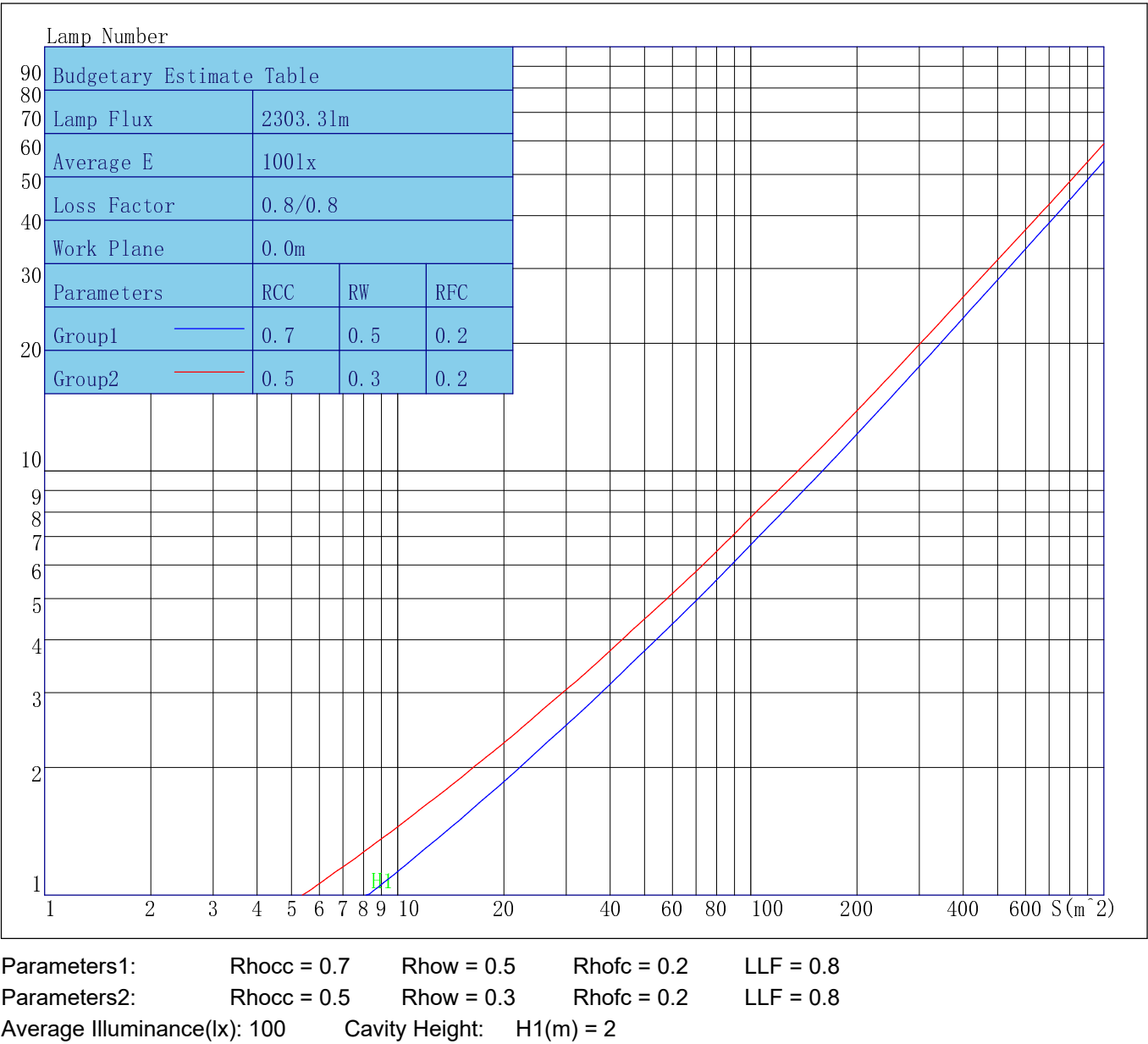
Luminous Size: Length(m)=0.030 Width(m)=1.500 Height(m)=0.020 Area(m^2)=0.045600

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: T8-1.5M-23W-W-O 220V	Lum. Catalog:	Test ID: 2018-05-31
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Indoor Coefficient of Utilization Table

Lum. Name: T8-1.5M-23W-W-O 220V	Lum. Catalog:	Test ID: 2018-05-31
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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	77	75	73	70
2	94	84	77	70	90	82	75	69	76	70	65	71	66	62	67	63	59	56
3	85	74	65	58	81	71	63	56	66	60	54	62	56	52	58	54	49	47
4	78	65	55	48	74	63	54	47	59	51	46	55	49	44	52	46	42	39
5	71	58	48	41	68	56	47	40	52	45	39	49	43	38	46	41	36	34
6	66	52	42	36	63	50	41	35	47	40	34	44	38	33	42	36	32	29
7	61	47	38	31	58	45	37	31	43	35	30	40	34	29	38	32	28	26
8	56	43	34	28	54	41	33	27	39	32	27	37	30	26	35	29	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	32	27	22	20
10	49	36	28	22	47	35	27	22	33	26	22	32	25	21	30	24	20	18

Unified Glare Rating Table

Lum. Name: T8-1.5M-23W-W-O 220V	Lum. Catalog:	Test ID: 2018-05-31
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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	26.3	29.7	27.5	30.9	32.2	28.5	32.0	29.7	33.2	34.4
	30.6	34.0	31.8	35.3	36.5	35.5	38.9	36.7	40.1	41.4
	33.1	36.2	34.4	37.5	38.7	39.9	43.0	41.2	44.2	45.5
	34.8	37.8	36.1	39.1	40.3	44.2	47.2	45.5	48.5	49.7
	35.5	38.5	36.7	39.7	41.0	46.6	49.5	47.8	50.8	52.1
	36.0	39.0	37.3	40.2	41.5	49.2	52.2	50.5	53.4	54.7
X=4H Y=2H	29.4	32.4	30.6	33.7	34.9	29.8	32.9	31.0	34.1	35.4
	34.2	37.3	35.5	38.5	39.8	37.2	40.2	38.4	41.5	42.7
	35.5	37.5	37.1	39.1	40.5	40.3	42.3	41.8	43.8	45.3
	38.1	39.9	39.6	41.4	42.9	45.5	47.3	47.0	48.8	50.3
	39.1	40.9	40.7	42.4	43.9	48.3	50.1	49.9	51.6	53.1
	39.1	40.6	40.7	42.2	43.8	50.7	52.2	52.3	53.8	55.4
X=8H Y=4H	37.4	39.2	38.9	40.7	42.2	40.8	42.6	42.3	44.1	45.6
	40.0	41.3	41.7	42.9	44.5	45.6	46.9	47.2	48.5	50.1
	41.2	42.3	43.0	44.0	45.7	48.4	49.5	50.2	51.2	52.9
	42.8	43.8	44.6	45.5	47.2	52.3	53.3	54.1	55.0	56.7
X=12H Y=4H	37.0	38.5	38.6	40.1	41.7	39.9	41.4	41.6	43.1	44.7
	40.3	41.4	42.0	43.1	44.8	45.2	46.3	46.9	48.0	49.7
	42.4	43.4	44.2	45.1	46.8	48.6	49.6	50.4	51.3	53.0
Variations with the objerver position at spacings										
S=1.0H	1.8/0.3					1.8/-2.0				
S=1.5H	0.3/-15.5					-2.0/-20.2				
S=2.0H	0.3/-15.5					-2.0/-20.2				
