IES Indoor Report
Photometric Filename:2x2FT LED Troffer Light 30-40W 3500-5000K.IES

Indoor Luminaire Photometric Data

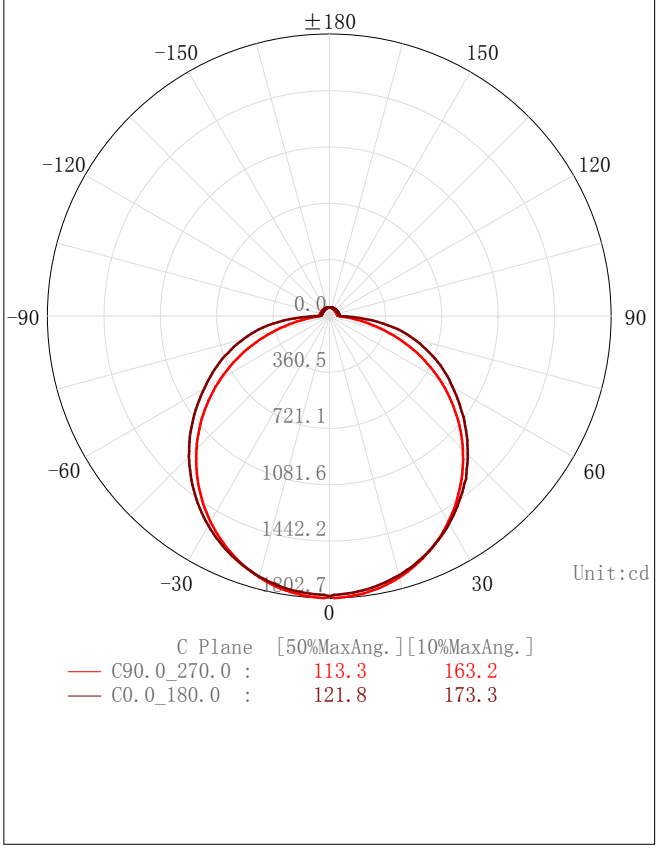
Description Information

Luminary Name: 2X2FT LED Troffer Light 30-40W 3500-5000K		Lum. Catelog:	Test ID:
Lamp Name:		Lamp Catelog:	Test Date: 2024/01/26
Manufacture: ILUMIA		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: IES Testing Laboratory		Frequency(Hz):50	Lamp CCT(K): Ra:
Lum.Size(W*L*H):0.603m*0.603m*0.000m		Lum.Area(m2):0.364	Lum.W(kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp.(℃): 25	Humidity(%): 50.0

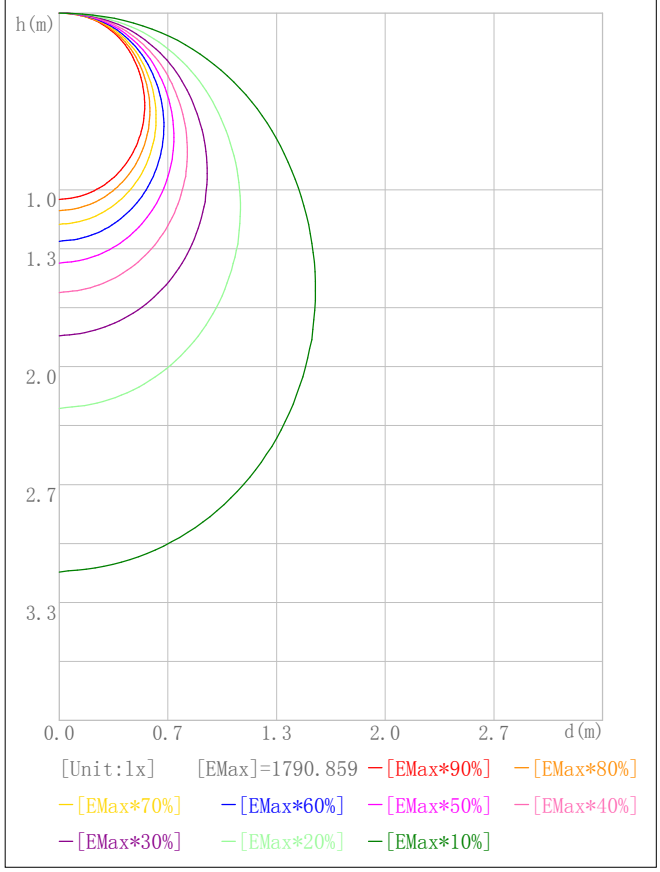
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter			
Rated Flux(lm):	5885.000	Luminary Flux(lm):	5884.817	Field Angle(10%Imax):	163.2(°)
Rated Power(W):	40	Luminary Efficiency:	100.00%	Down Lumens&Percent:	5547.1471m 94.26%
Rated Voltage(V):	120	Luminary EER(lm/W):	155.354	Up Lumens&Percent:	337.6701m 5.74%
Tested Power(W):	37.880	Max.Candela(cd):	1802.720	S/MH:	C0_a180=1.279 C90_270=1.260
Lamps' Inside:	1	Max Cand@Ang.(°):	C=90.0 γ=1.0	CIE Type:	Semi-Direct
Tested Electrics(V,A,pf):121.2,0.314,0.995		Beam Angle(50%Imax):	113.3(°)	ErP Φuse(120°):	4121.935lm
Lamp Size(W*L*H):0.603m*0.603m*0.000m		Left=-56.4° ,Right=56.9°		IRF(%):	107.643

C Plane Distribution Diagram



C0 Space ISO Illuminance Curve



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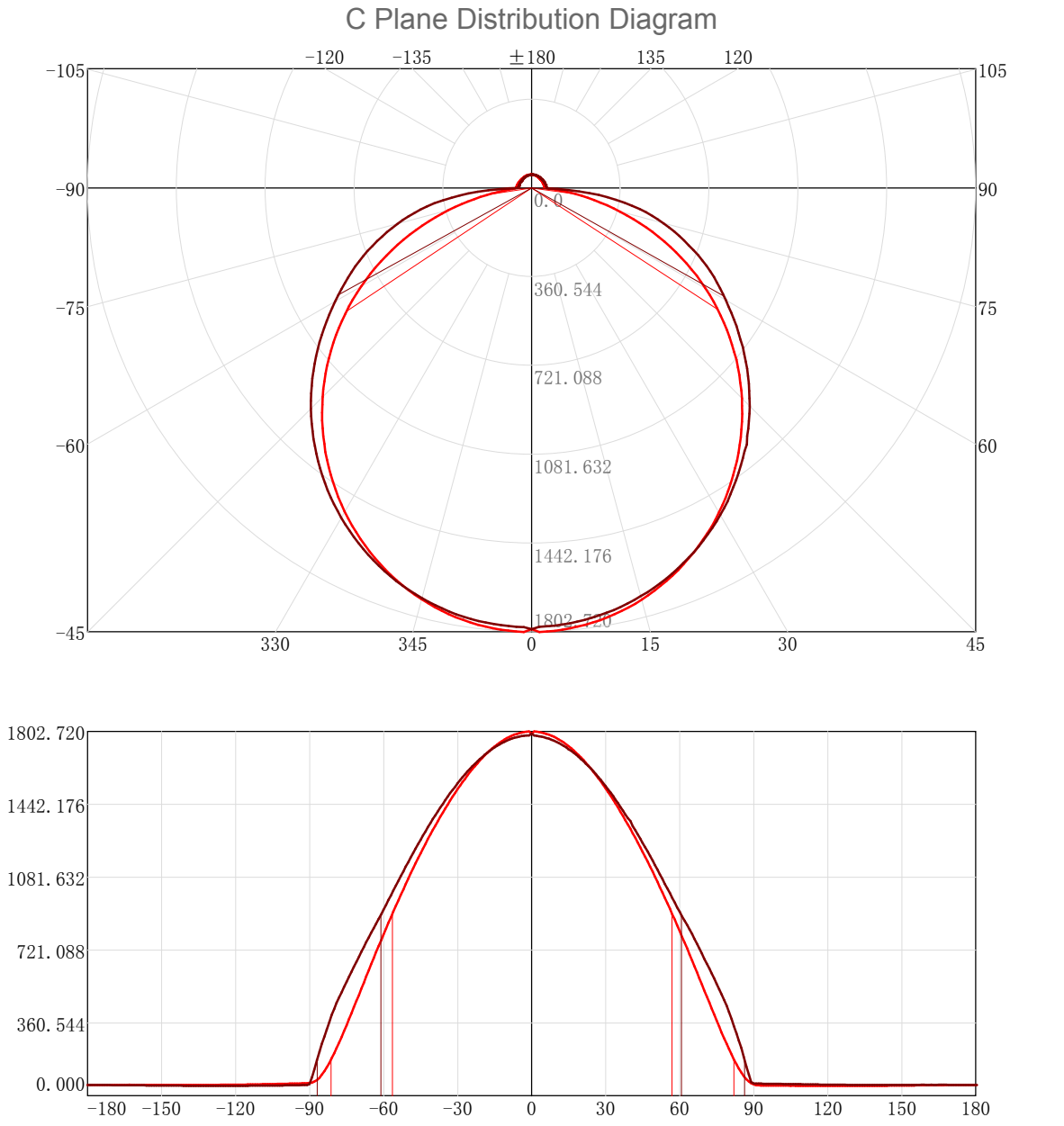
2D Plane Light Intensity Distribution Curve

Lum.Name: 2X2FT LED Troffer Light 30-40W 3500-5000K	Lum.Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26



C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C90.0_270.0 :	113.3	163.2	
C0.0_180.0 :	121.8	173.3	

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3D Light Intensity Distribution Modal

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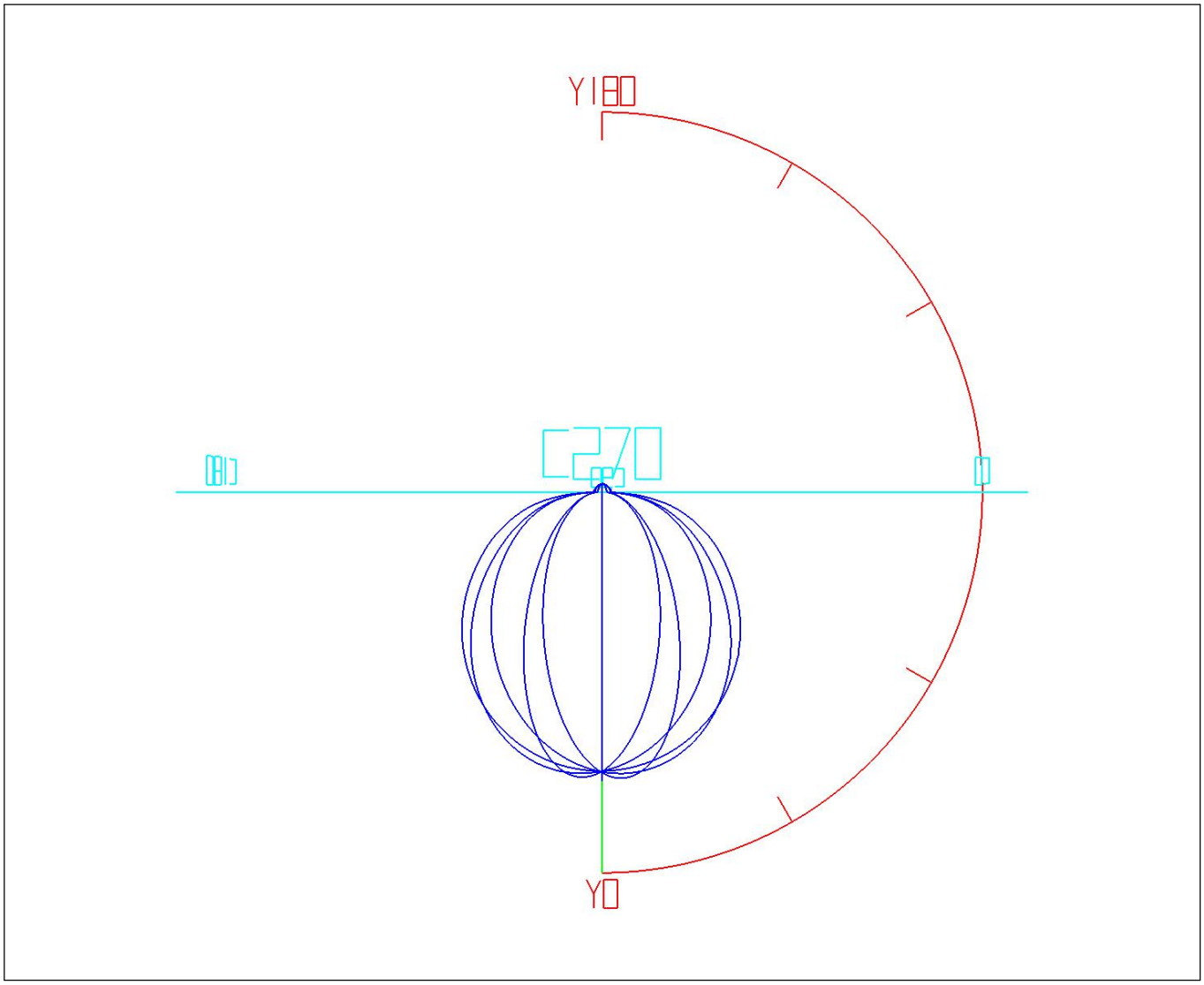
Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26

3D Light Intensity Distribution Modal



Curves: 3D Model Fixture Vert. HUD Hori. HUD

View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

ILUMIA
1914 Longcroft Ln Katy, Texas 77493

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Rectangle ISO Lighting Intensity Diagram

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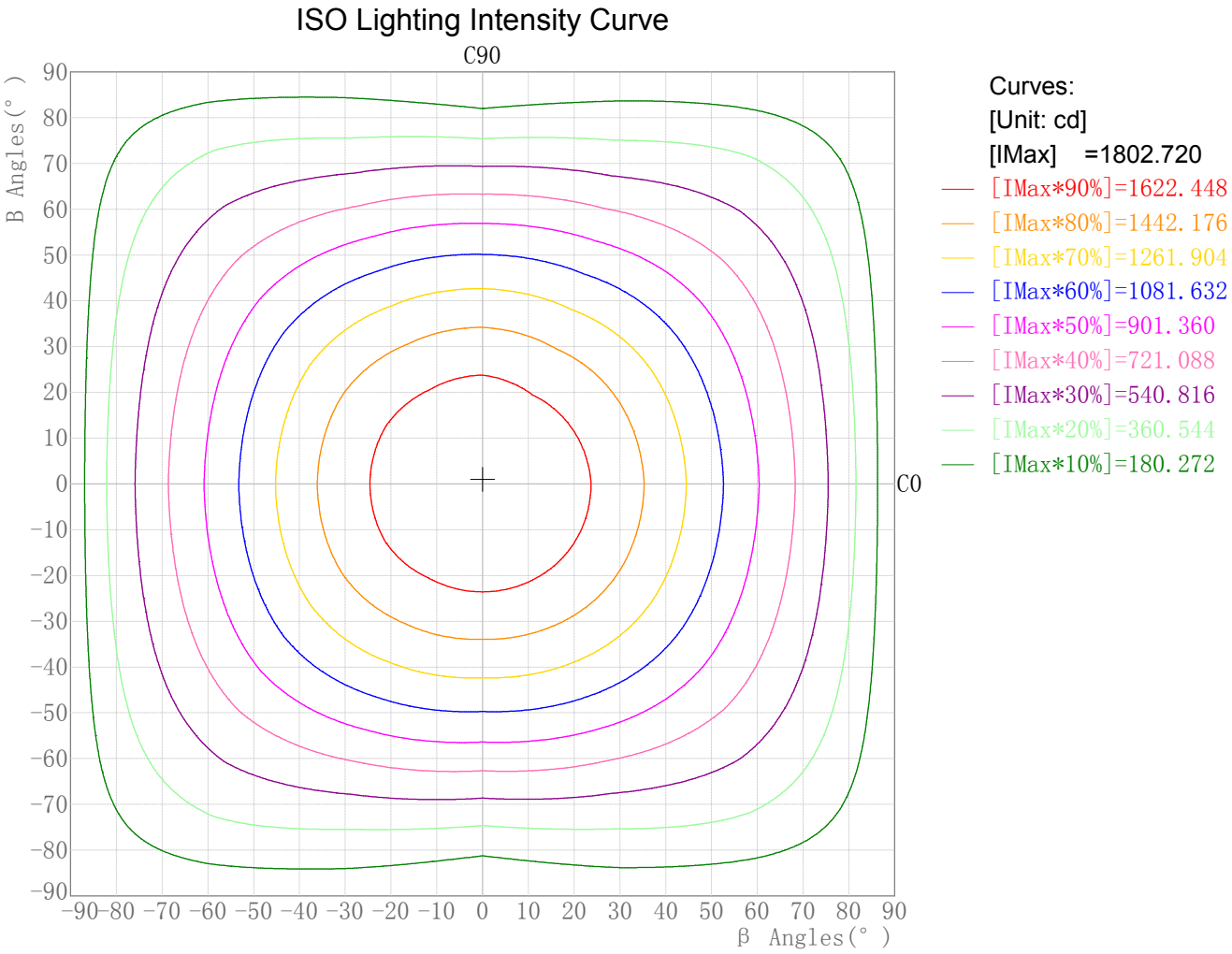
Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26



Maximum Light Intensity(cd): 1802.72
Maximum Cand.@Angle: H=0.0°,V=1.0°

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Plane ISO-Illuminance Diagram

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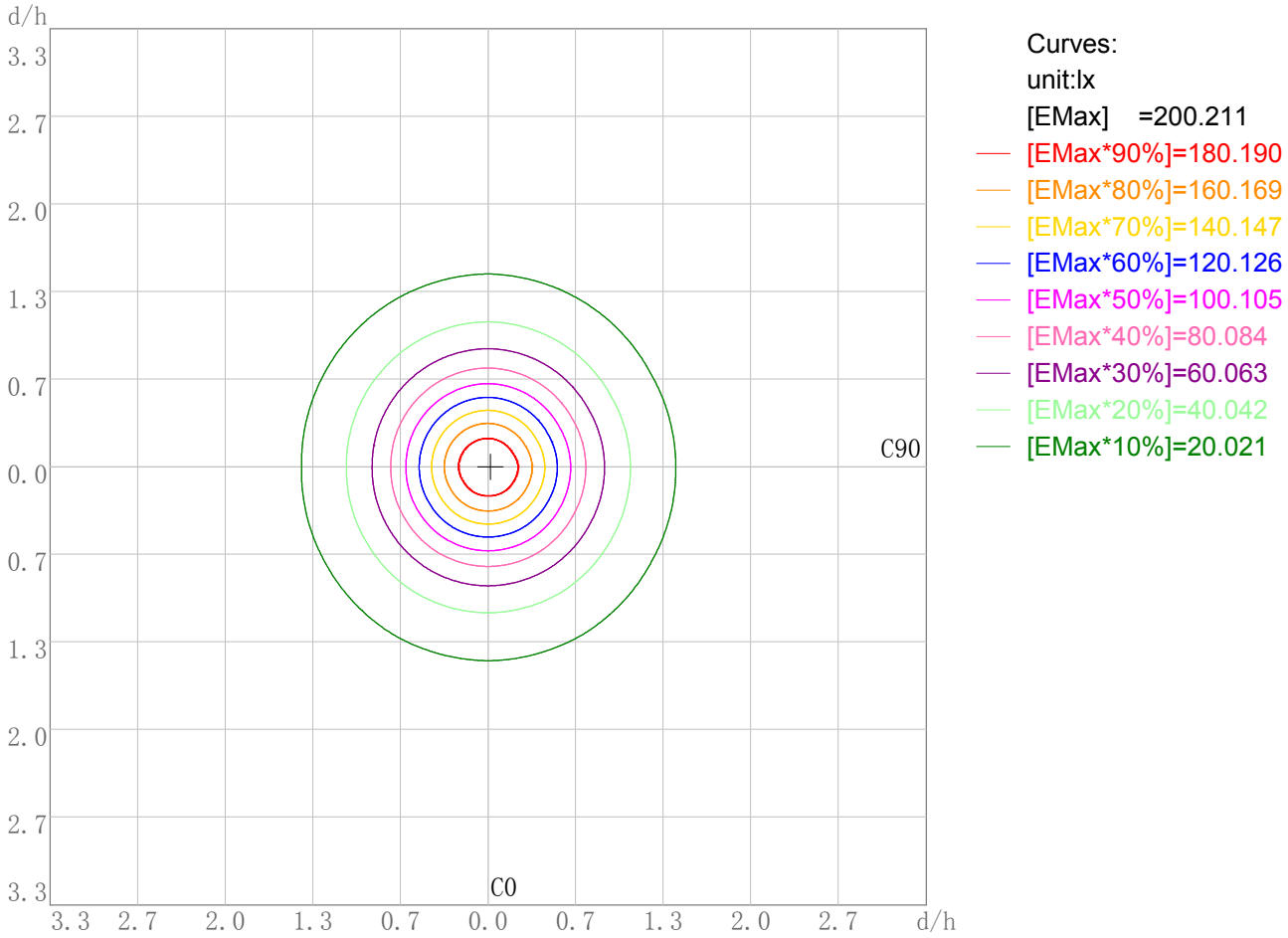
Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 200.21
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

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Space ISO Illuminance Diagram

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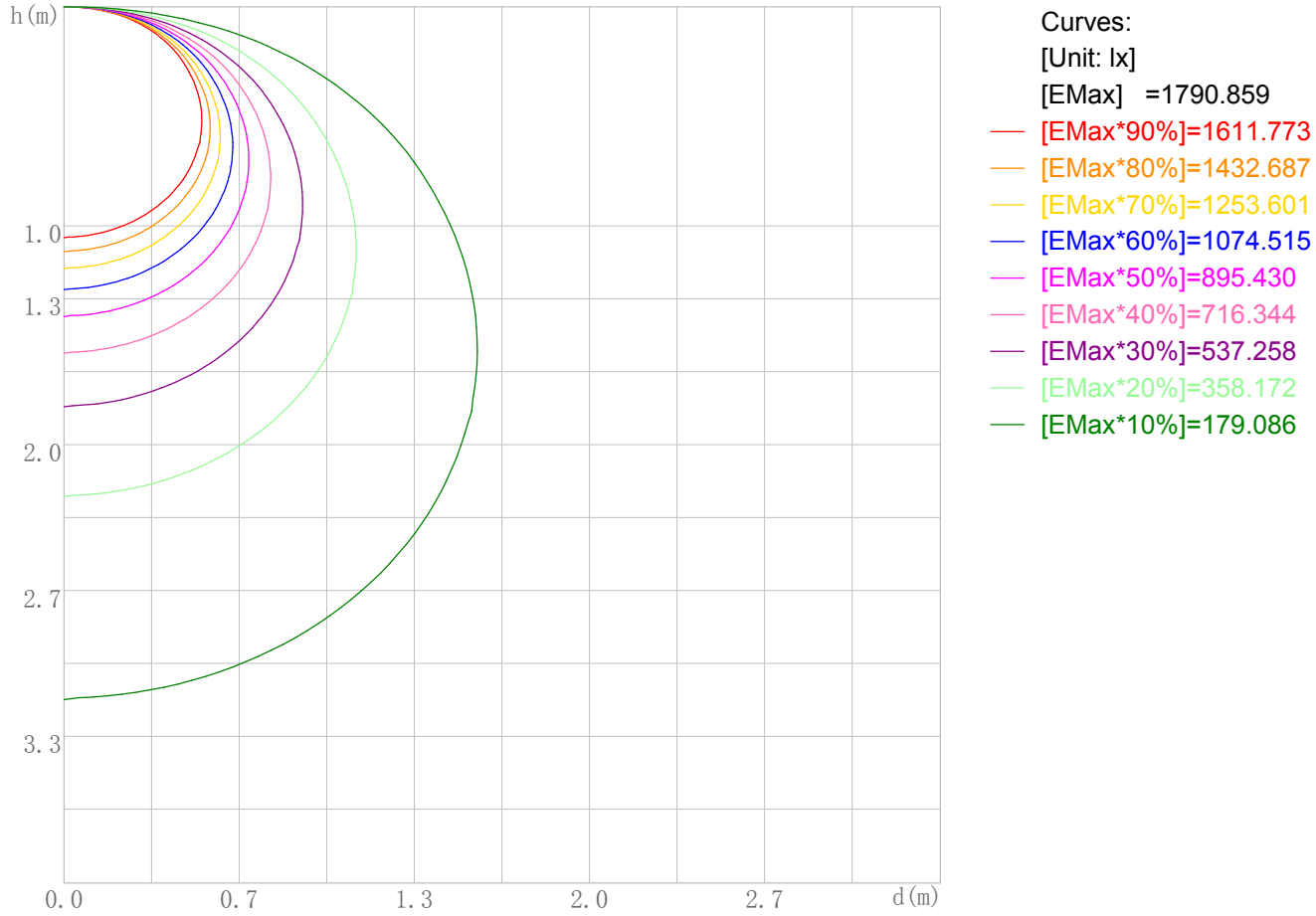
Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1790.86lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1790.859cd,0eg

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Illuminance-Distance Diagram

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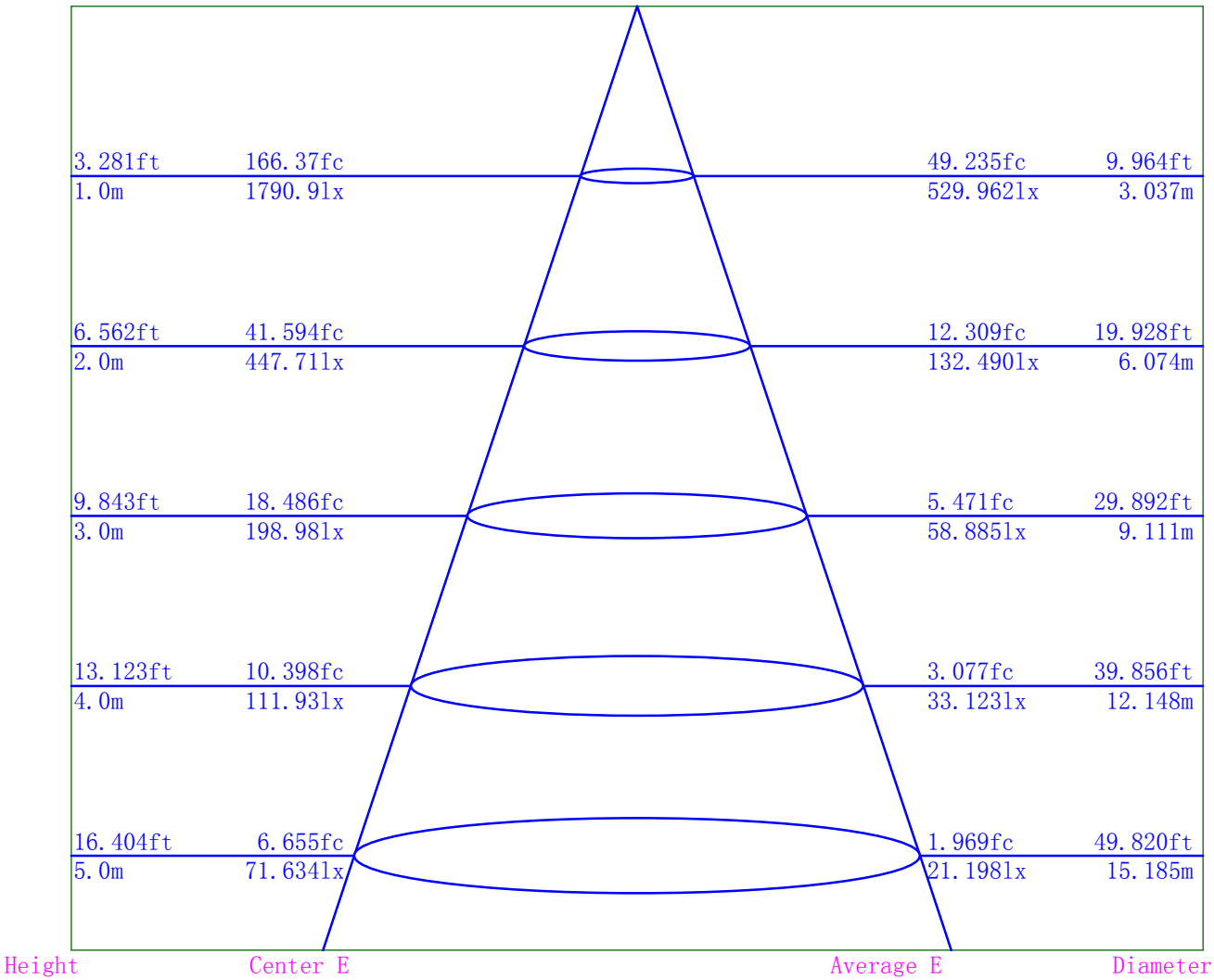
Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26

Illuminance-Distance Curve



Beam Angle:113.3

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Unified Glare Rating Table

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Lamp Name:	Lamp Catelog:	Test Lab: IES Testing Laboratory
Manufacture: ILUMIA	Test Machine:GON-2000	Test Date: 2024/01/26

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	17.6	19.1	18.0	19.6	20.0	17.1	18.7	17.6	19.1	19.6
	Y=3H	19.7	21.1	20.2	21.5	22.0	18.8	20.3	19.3	20.7	21.2
	Y=4H	20.7	22.1	21.2	22.5	23.0	19.6	20.9	20.0	21.4	21.9
	Y=6H	21.7	23.0	22.2	23.4	24.0	20.1	21.4	20.6	21.8	22.4
	Y=8H	22.1	23.3	22.7	23.8	24.4	20.3	21.5	20.8	22.0	22.5
	Y=12H	22.5	23.6	23.0	24.1	24.7	20.5	21.6	21.0	22.1	22.7
X=4H	Y=2H	18.3	19.7	18.8	20.1	20.6	18.0	19.3	18.5	19.8	20.3
	Y=3H	20.7	21.8	21.2	22.3	22.8	19.9	21.0	20.4	21.6	22.1
	Y=4H	21.9	22.9	22.4	23.4	24.0	20.8	21.8	21.3	22.3	22.9
	Y=6H	23.0	23.9	23.6	24.5	25.1	21.5	22.4	22.0	22.9	23.5
	Y=8H	23.5	24.4	24.1	24.9	25.5	21.7	22.6	22.3	23.1	23.7
	Y=12H	24.0	24.7	24.5	25.3	25.9	22.0	22.7	22.5	23.3	23.9
X=8H	Y=4H	22.2	23.1	22.8	23.6	24.2	21.3	22.1	21.8	22.7	23.3
	Y=6H	23.6	24.3	24.2	24.9	25.6	22.2	22.9	22.8	23.5	24.2
	Y=8H	24.2	24.9	24.8	25.5	26.1	22.6	23.2	23.2	23.8	24.4
	Y=12H	24.8	25.4	25.4	26.0	26.6	22.9	23.5	23.5	24.1	24.8
X=12H	Y=4H	22.3	23.1	22.9	23.6	24.2	21.4	22.2	22.0	22.8	23.4
	Y=6H	23.7	24.3	24.3	24.9	25.6	22.4	23.0	23.0	23.6	24.3
	Y=8H	24.4	25.0	25.0	25.5	26.2	22.9	23.4	23.5	24.0	24.7
Variations with the objerver position at spacings											
S=1.0H		0.3/-0.3					0.4/-0.5				
S=1.5H		0.4/-0.5					0.7/-0.8				
S=2.0H		0.4/-0.5					0.8/-1.0				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		4.1					3.4				

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