

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: L-D332-1-30K-24-BK
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

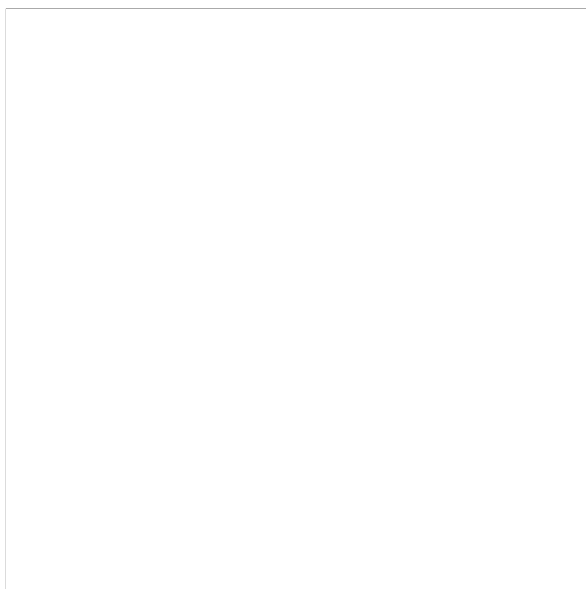
Voltage(V): 221.09 V
Current(A): 0.0267 A
Power(W): 3.27 W
Power Factor: 0.5542
Lamp Luminous Flux: 164.38

Photometric Results

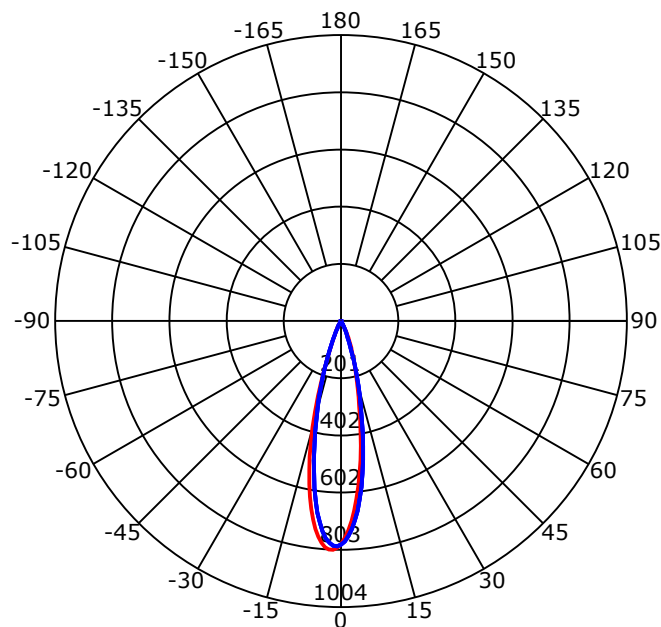
CIE Class: Direct
Luminaire Luminous Flux: 164.3783 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 50.27 lm/W
Beam Angle(50%) C0-180,C90-270: 24.6,24.2
Field Angle(10%) C0-180,C90-270: 45.0,43.5
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 803.31 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 783.35 cd
Effective Luminous Flux: 148.26 lm
ERP(ϕ use)(120deg): 164.38 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



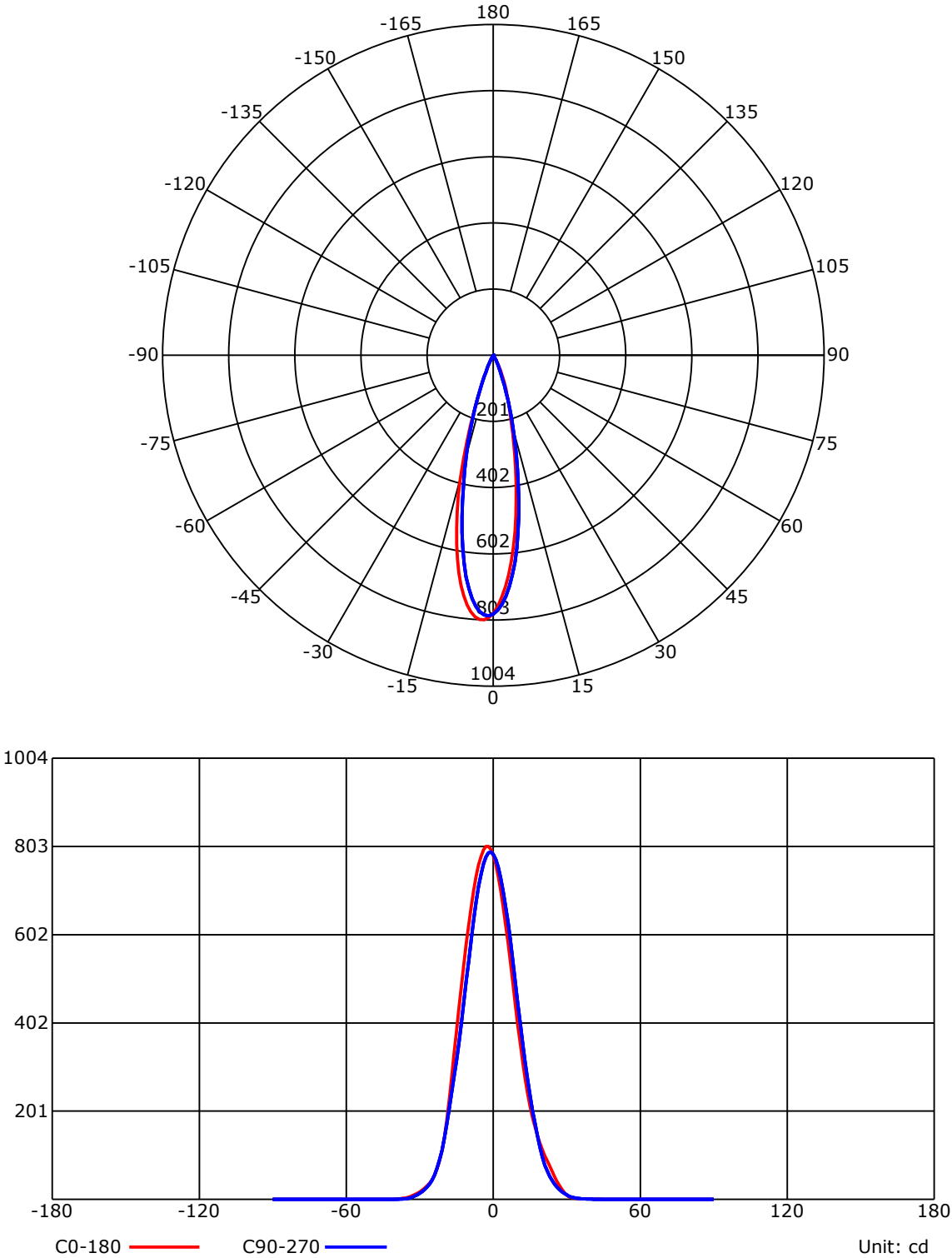
Beam Angle(50%) C0-180,C90-270: 24.6 deg,24.2 deg

C0-180 — C90-270

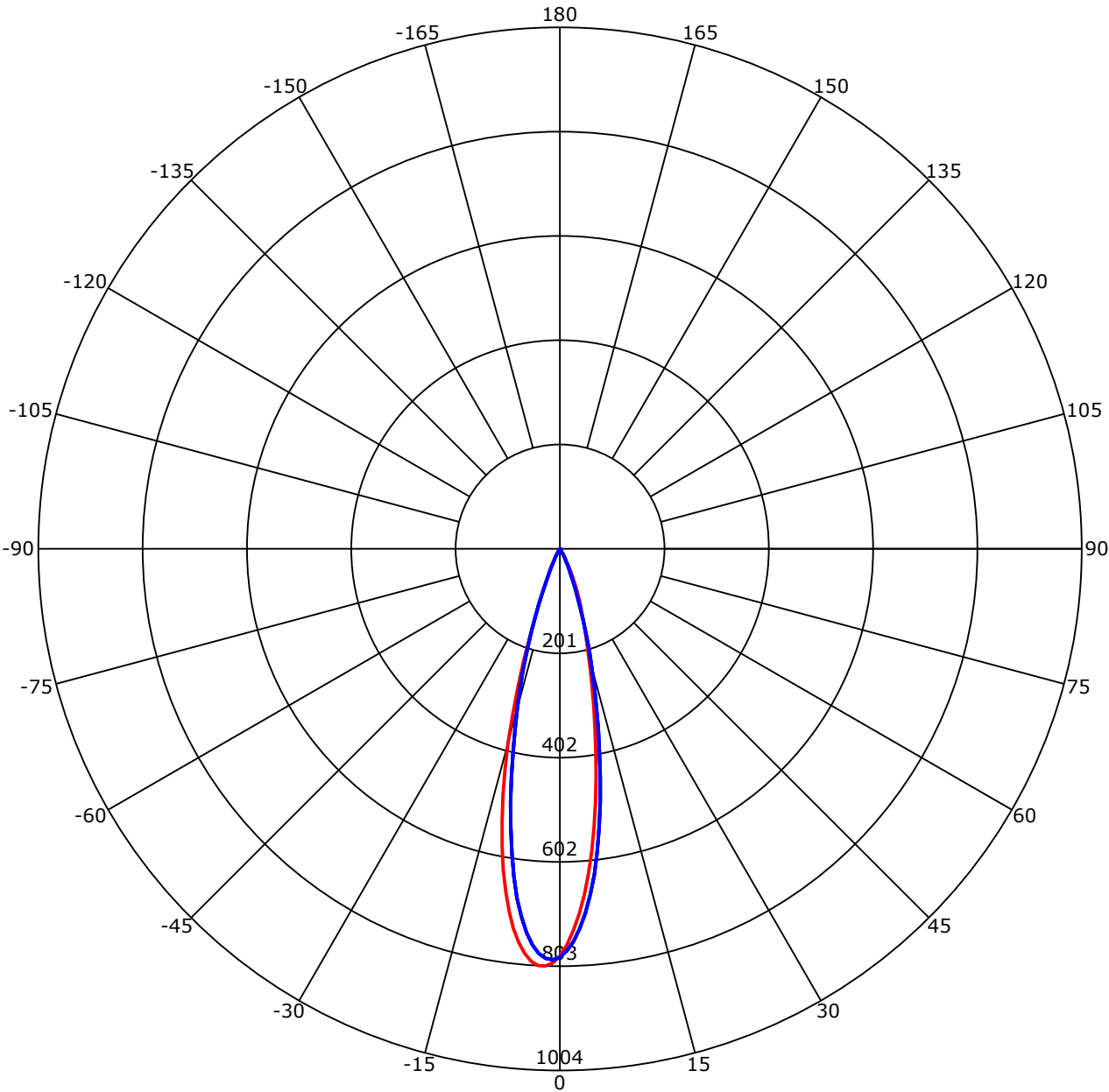
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/4/19 8:25:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 7.91 m
Remarks:

Luminous Intensity Distribution Curve



Luminous Intensity Distribution Curve



C0-180 C90-270
 Unit: cd/klm

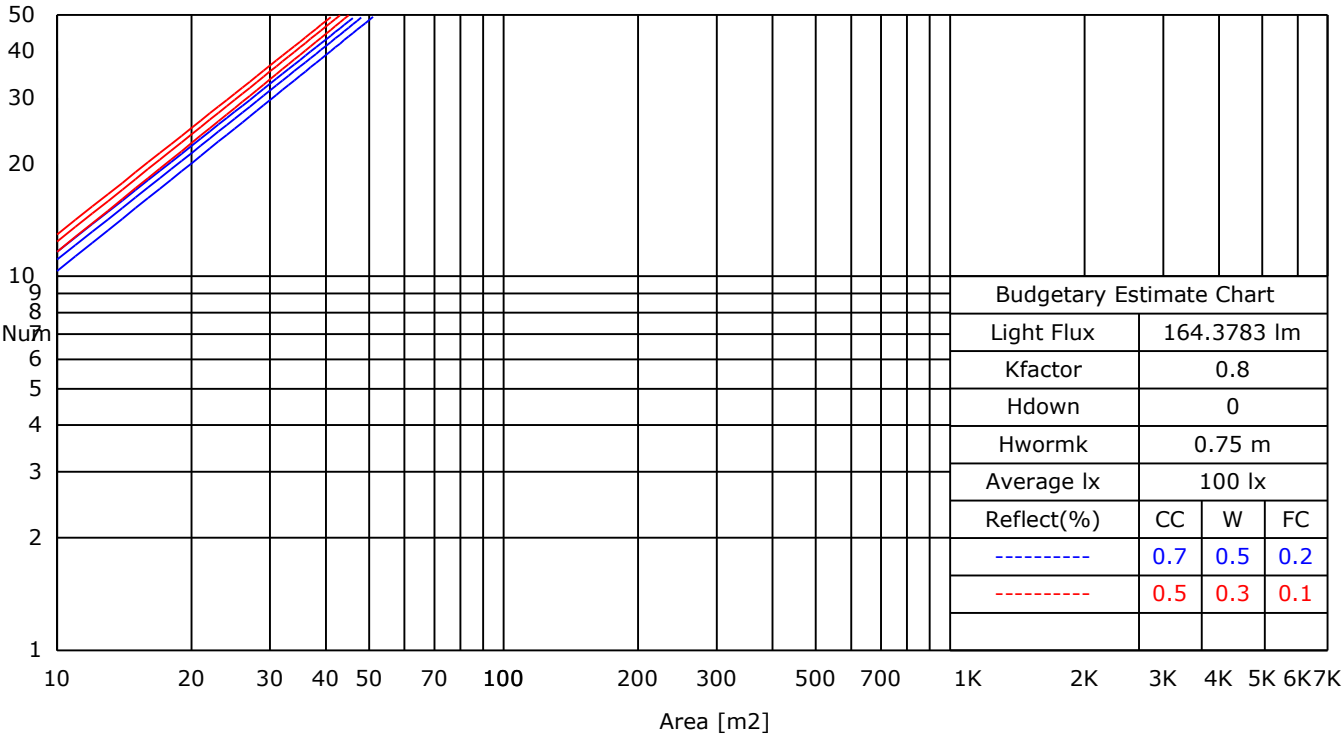
C Range: 0 - 360 Deg
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 Test Date: 2025/4/19 8:25:46

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 Humidity:
 Test Distance: 7.91 m
 Remarks:

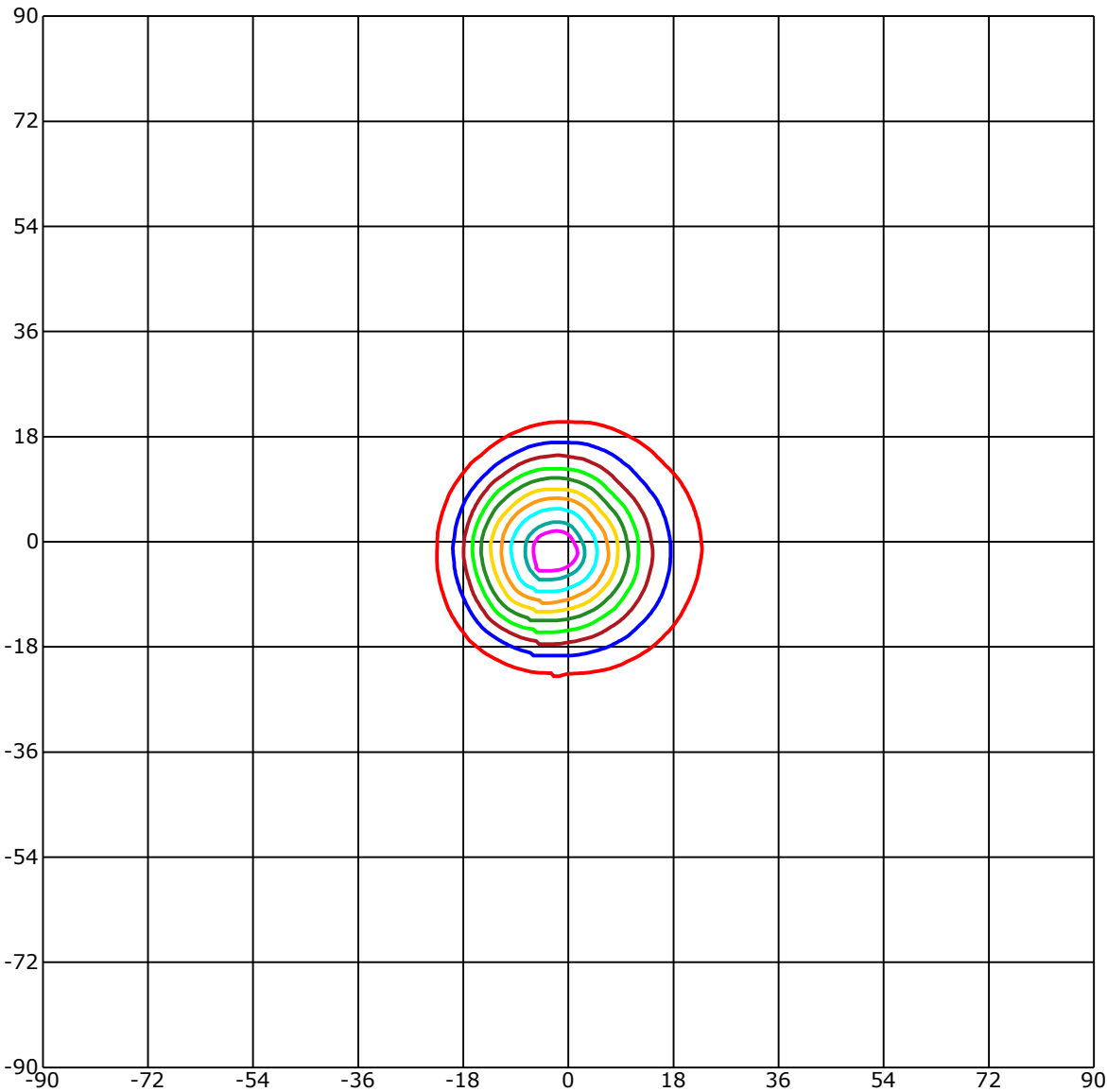
UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	0.83	0.79	0.76	0.83	0.79	0.75	0.81	0.76	0.72	0.78	0.73	0.69	0.73	0.68	0.64	0.59
2	0.80	0.77	0.75	0.80	0.76	0.73	0.79	0.74	0.71	0.76	0.71	0.67	0.72	0.67	0.63	0.58
3	0.78	0.76	0.74	0.78	0.75	0.72	0.77	0.73	0.69	0.74	0.70	0.66	0.71	0.66	0.62	0.57
4	0.77	0.74	0.73	0.77	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.75	0.73	0.72	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.64	0.69	0.64	0.60	0.56
6	0.74	0.73	0.71	0.74	0.71	0.70	0.73	0.69	0.67	0.71	0.66	0.63	0.68	0.63	0.60	0.56
7	0.73	0.72	0.71	0.73	0.71	0.69	0.72	0.68	0.66	0.70	0.66	0.62	0.67	0.63	0.59	0.55
8	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
9	0.72	0.70	0.69	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.71	0.70	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.57	0.54

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



ISOCANDELA DIAGRAM (RECTANGULAR)



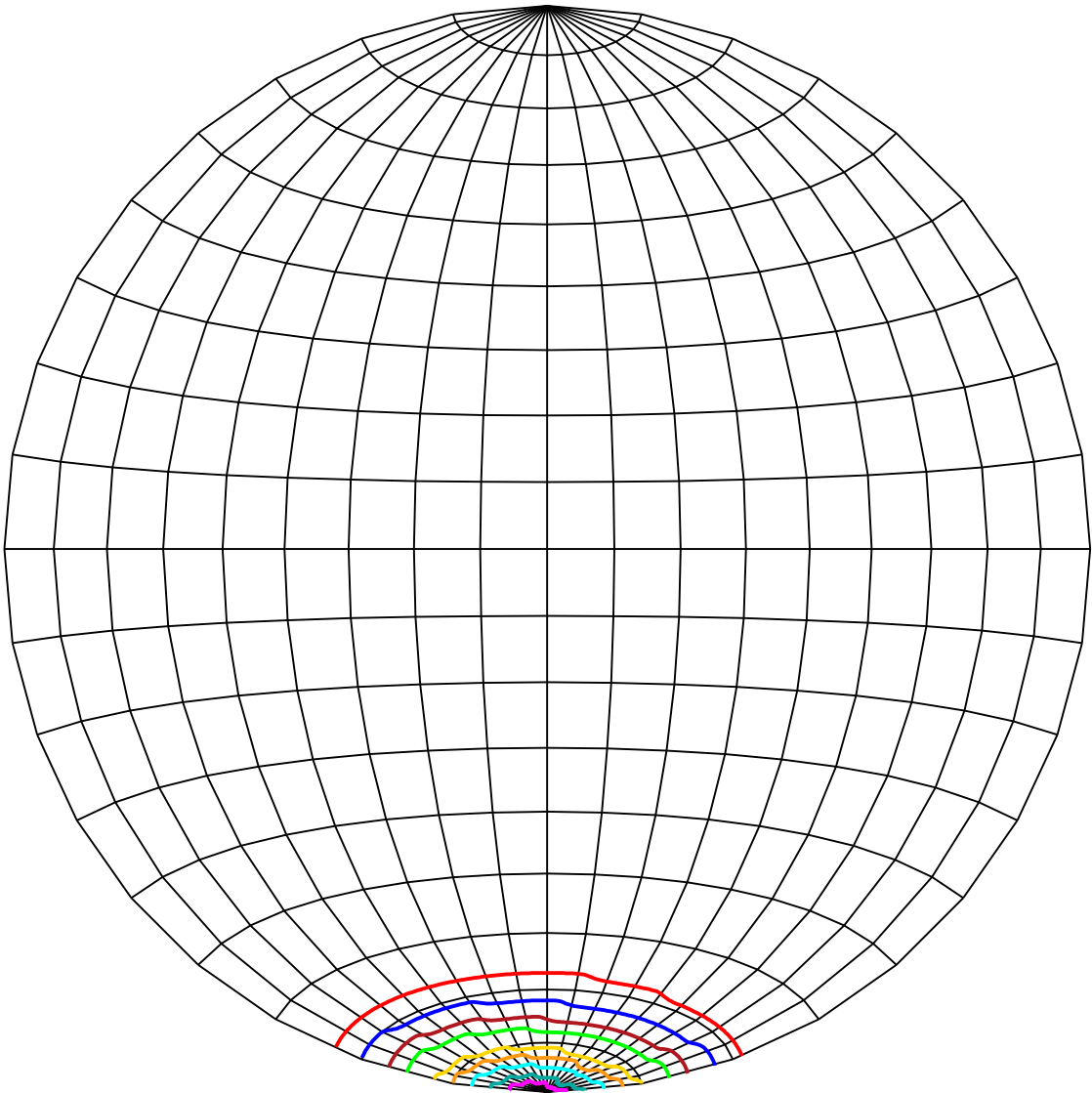
Unit of intensity:cd Imax(100%): 803.312 cd

- | | |
|------------------|------------------|
| 763.146(95%Imax) | 401.656(50%Imax) |
| 722.981(90%Imax) | 321.325(40%Imax) |
| 642.649(80%Imax) | 240.994(30%Imax) |
| 562.318(70%Imax) | 160.662(20%Imax) |
| 481.987(60%Imax) | 80.331(10%Imax) |

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

ISOCANDELA DIAGRAM (SPHERE)



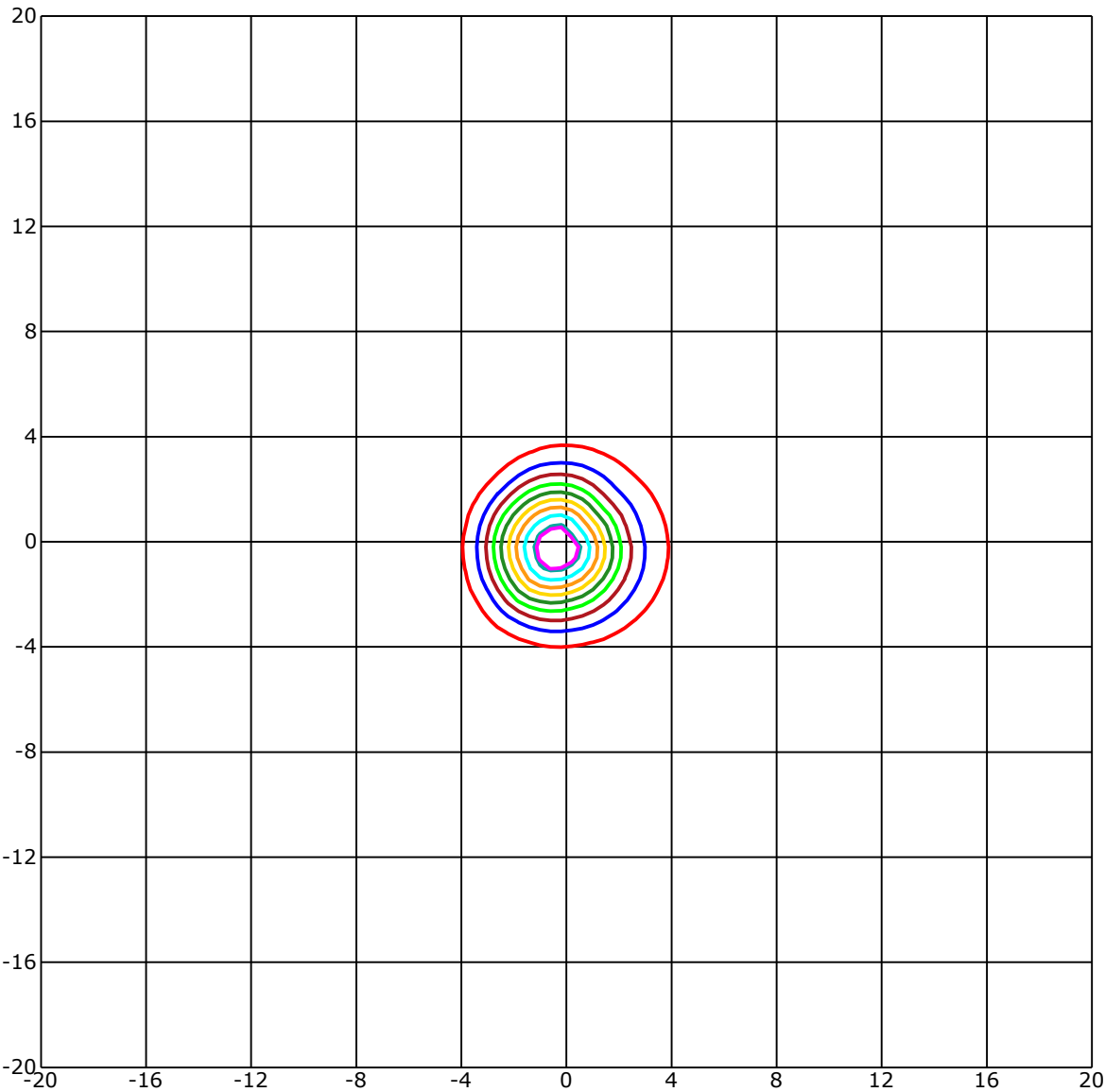
Unit of intensity:cd I_{max}(100%): 803.312 cd

763.146(95%I _{max})	401.656(50%I _{max})
722.981(90%I _{max})	321.325(40%I _{max})
642.649(80%I _{max})	240.994(30%I _{max})
562.318(70%I _{max})	160.662(20%I _{max})
481.987(60%I _{max})	80.331(10%I _{max})

C Range: 0 - 360 Deg
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 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

ISOLX DIAGRAM



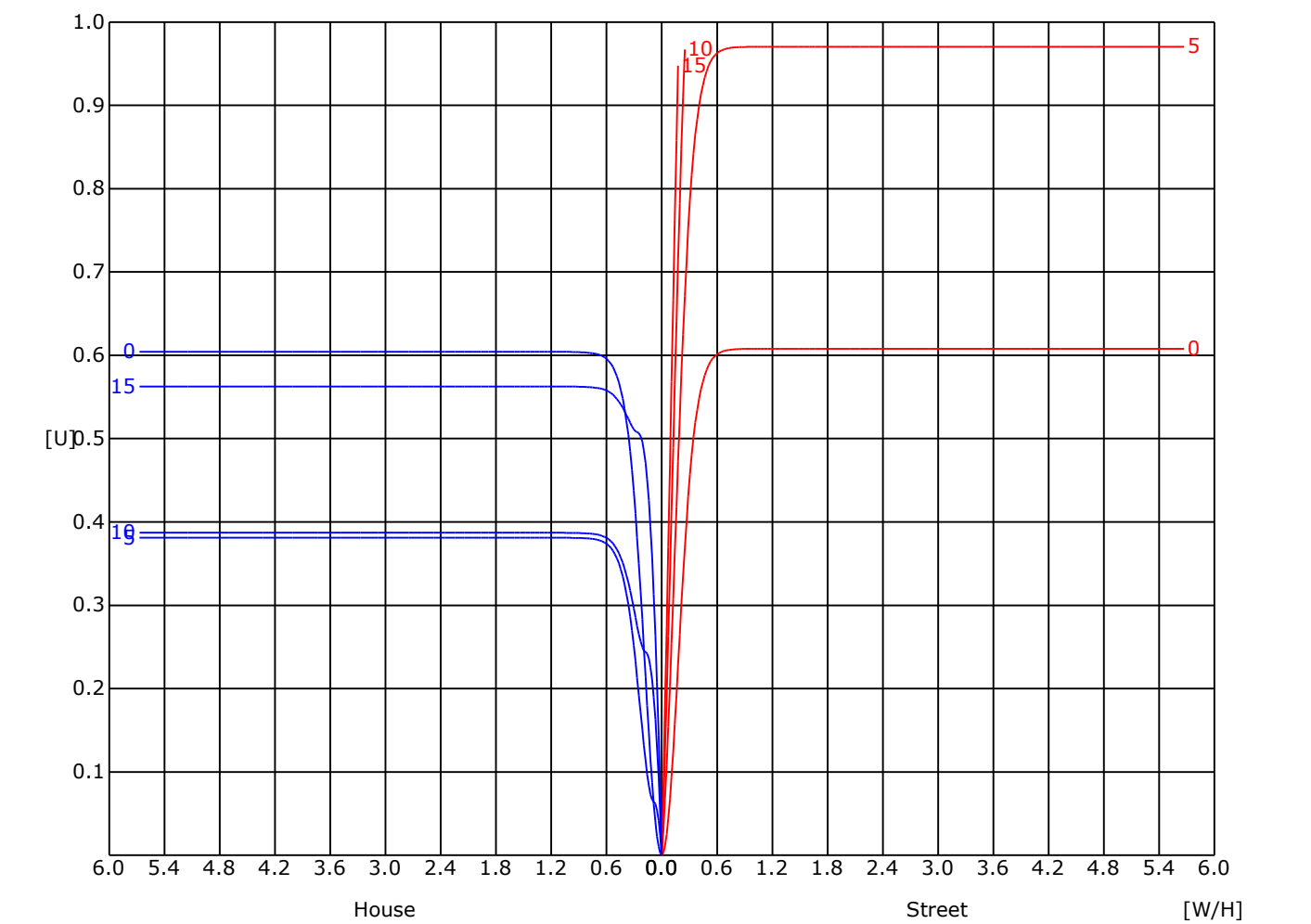
Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

- | | |
|----------------|----------------|
| 7.377(92%Emax) | 4.009(50%Emax) |
| 7.217(90%Emax) | 3.207(40%Emax) |
| 6.415(80%Emax) | 2.406(30%Emax) |
| 5.613(70%Emax) | 1.604(20%Emax) |
| 4.811(60%Emax) | 0.802(10%Emax) |

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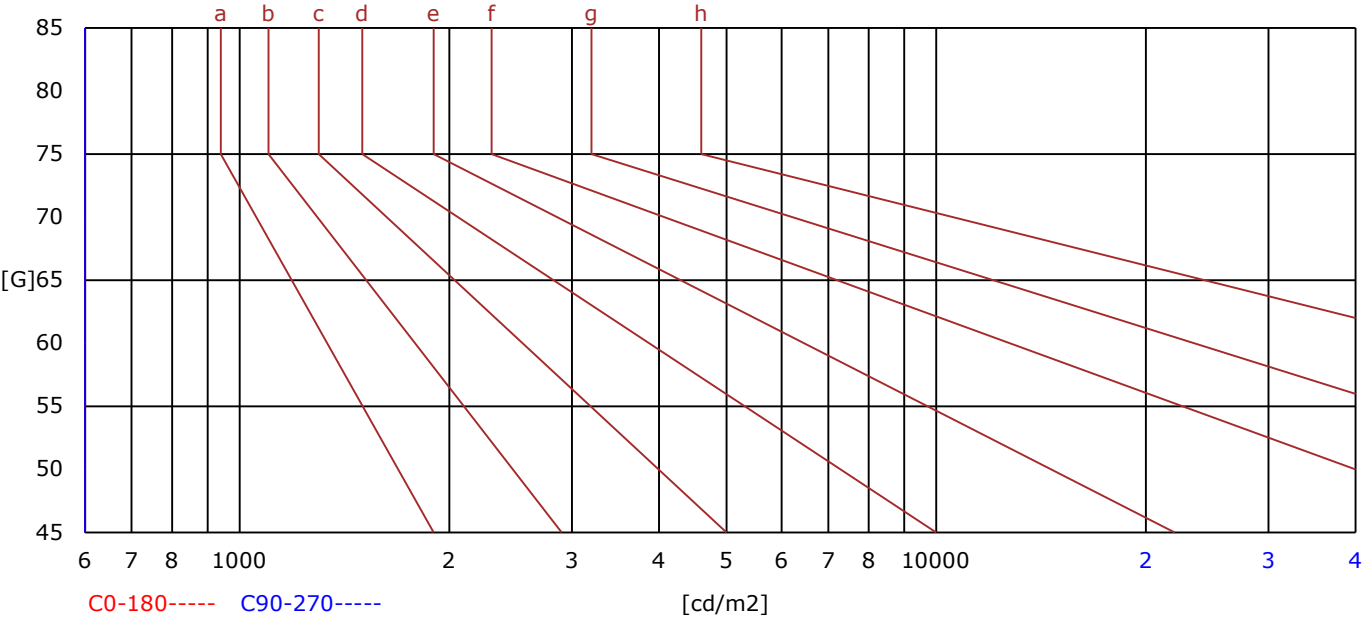
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

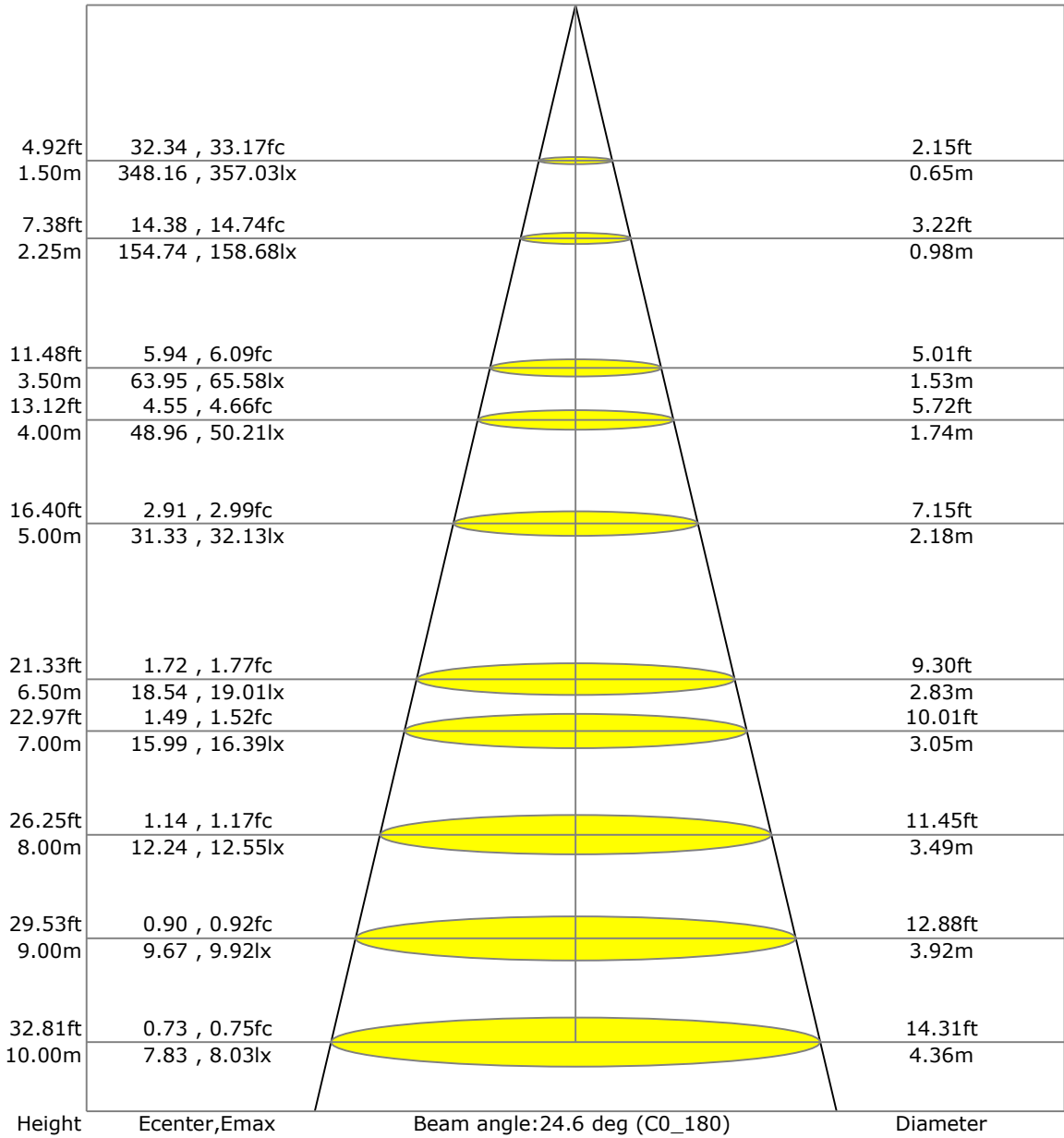


BRIGHT LIMIT DIAGRAM

C/G	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
Dazzle	Quality	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					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



LX-DISTANCE DIAGRAM



UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	0.50	0.56	0.70	0.74	0.99	0.50	0.56	0.70	0.74	0.99
3H	0.48	0.54	0.69	0.73	0.98	0.48	0.54	0.69	0.73	0.98
4H	0.47	0.53	0.68	0.73	0.97	0.47	0.53	0.68	0.73	0.97
6H	0.45	0.52	0.67	0.72	0.97	0.45	0.52	0.67	0.72	0.97
8H	0.45	0.51	0.67	0.71	0.97	0.45	0.51	0.67	0.71	0.97
12H	0.44	0.50	0.66	0.71	0.96	0.44	0.50	0.66	0.71	0.96
4H 2H	0.47	0.53	0.68	0.73	0.97	0.47	0.53	0.68	0.73	0.97
3H	0.44	0.50	0.66	0.71	0.96	0.44	0.50	0.66	0.71	0.96
4H	0.42	0.49	0.65	0.70	0.96	0.42	0.49	0.65	0.70	0.96
6H	0.40	0.47	0.64	0.69	0.95	0.40	0.47	0.64	0.69	0.95
8H	0.39	0.46	0.63	0.68	0.95	0.39	0.46	0.63	0.68	0.95
12H	0.38	0.44	0.63	0.68	0.95	0.38	0.44	0.63	0.68	0.95
8H 4H	0.45	0.51	0.67	0.71	0.97	0.45	0.51	0.67	0.71	0.97
6H	0.37	0.43	0.62	0.67	0.94	0.37	0.43	0.62	0.67	0.94
8H	0.35	0.41	0.62	0.66	0.94	0.35	0.41	0.62	0.66	0.94
12H	0.34	0.40	0.61	0.65	0.93	0.34	0.40	0.61	0.65	0.93
12H 4H	0.38	0.44	0.63	0.68	0.95	0.38	0.44	0.63	0.68	0.95
6H	0.35	0.41	0.62	0.66	0.94	0.35	0.41	0.62	0.66	0.94

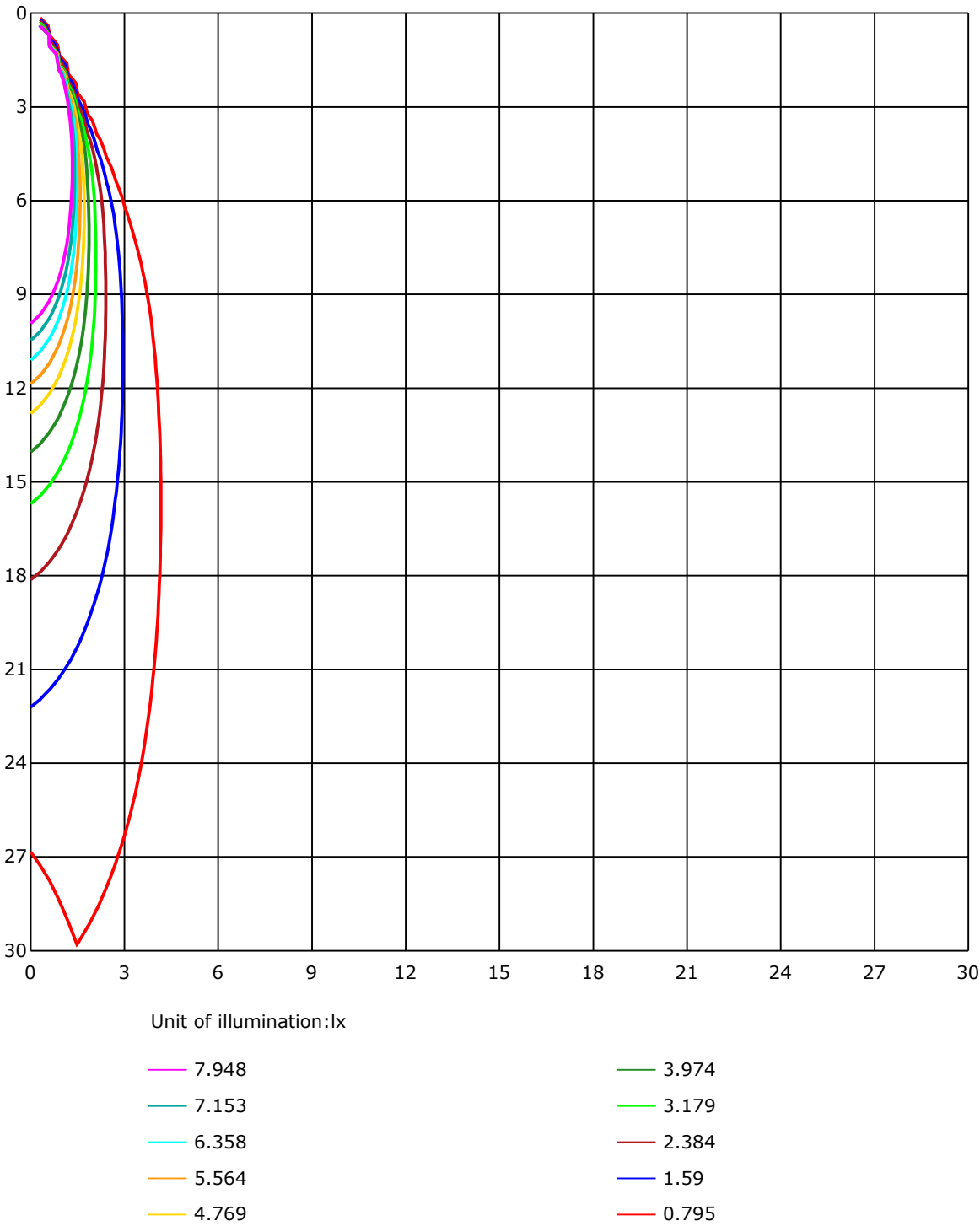
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/4/19 8:25:46

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 7.91 m
Remarks:

SPACE ISOLX DIAGRAM



LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	783.35	768.09	785.79	791.67	783.35	768.09	785.79	791.67	783.35	
G1	762.27	742.87	773.78	790.8	796.74	785.61	790.86	784.04	762.27	
G2	734.67	714.53	755.89	782.54	803.31	796.99	788.8	769.21	734.67	
G3	703.52	681.55	731.67	767.52	803.19	802.37	779.85	747.88	703.52	
G4	667.91	642.51	702.45	746.56	795.99	802.12	764.33	719.1	667.91	
G5	627.06	598.46	668.6	719.91	781.6	794.36	741.31	685.12	627.06	
G6	583.76	552.79	630.31	691.13	761.52	780.54	712.15	648.14	583.76	
G7	538.27	506.68	587.58	657.72	735.99	760.33	677.55	606.66	538.27	
G8	491.79	457.87	540.9	618.61	704.27	731.86	637.51	559.8	491.79	
G9	443.61	408.19	493.47	573.87	668.1	698.2	593.08	513.06	443.61	
G10	396.68	363.08	446.3	528.26	627.87	661.09	545.66	466.7	396.68	
G11	352.82	321.6	398.81	480.59	583.57	618.42	498.61	420.52	352.82	
G12	311.59	281.24	353.32	431.66	535.52	570.18	450.74	373.72	311.59	
G13	274.17	245.52	311.28	381.67	487.22	521.44	402.63	331.3	274.17	
G14	241.39	214.23	273.3	334.93	438.41	473.64	358.39	293.51	241.39	
G15	212.48	187.83	237.63	289.25	386.42	426.96	317.47	259.34	212.48	
G16	187.33	163.99	203.78	244.39	330.8	375.66	279.12	226.12	187.33	
G17	164.87	142.28	173.06	199.28	276.11	324.23	242.39	197.72	164.87	
G18	145.41	124.14	144.66	161.3	225.81	275.55	205.72	173.44	145.41	
G19	128.45	108.31	119.0	128.89	180.51	227.69	171.5	151.29	128.45	
G20	113.81	93.29	97.23	101.61	140.72	183.2	140.09	129.02	113.81	
G21	99.92	78.96	78.71	79.71	110.62	145.22	111.56	108.81	99.92	
G22	87.47	66.26	64.57	62.94	86.41	116.5	88.66	91.66	87.47	
G23	75.83	55.31	52.43	50.99	69.08	92.6	70.39	76.52	75.83	
G24	63.69	44.86	43.3	40.61	54.68	72.95	55.37	62.13	63.69	
G25	51.87	36.23	34.73	32.97	44.99	57.88	44.05	51.18	51.87	
G26	40.86	27.72	28.28	26.47	37.17	46.86	35.1	42.17	40.86	
G27	30.85	21.09	22.15	21.59	30.85	38.04	28.09	34.16	30.85	
G28	22.59	13.83	17.46	16.96	25.47	30.97	22.77	26.59	22.59	
G29	15.33	9.51	13.33	13.45	21.21	25.21	17.83	20.52	15.33	
G30	9.2	5.88	10.2	10.39	17.21	20.96	14.14	15.39	9.2	
G31	5.63	3.63	7.01	8.13	14.33	17.46	10.64	11.2	5.63	
G32	3.69	2.57	5.07	5.32	10.89	14.2	8.01	7.13	3.69	
G33	2.69	1.81	3.69	3.44	8.51	11.39	5.07	5.38	2.69	
G34	2.13	1.31	2.69	2.25	6.32	8.38	3.38	4.07	2.13	
G35	1.75	1.06	2.0	1.5	4.38	6.38	2.19	3.25	1.75	
G36	1.56	0.81	1.56	0.75	3.25	4.32	1.31	2.57	1.56	

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1.44	0.69	1.25	0.25	2.38	3.13	0.69	2.19	1.44	
G38	1.25	0.5	0.94	0.0	1.63	2.32	0.56	1.56	1.25	
G39	1.13	0.38	0.75	0.0	1.13	1.75	0.0	1.5	1.13	
G40	0.94	0.25	0.63	0.0	0.75	1.25	0.0	1.25	0.94	
G41	0.81	0.13	0.44	0.0	0.44	0.56	0.0	1.0	0.81	
G42	0.63	0.0	0.25	0.0	0.31	0.47	0.0	0.88	0.63	
G43	0.56	0.0	0.13	0.0	0.19	0.38	0.0	0.75	0.56	
G44	0.5	0.0	0.0	0.0	0.06	0.31	0.0	0.75	0.5	
G45	0.38	0.0	0.0	0.0	0.0	0.25	0.0	0.63	0.38	
G46	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.31	
G47	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.13	
G48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	
G49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/4/19 8:25:46

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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Temperature:
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