

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
 Luminaire Type:L-R703-COB1-30K-36-WH
 Lamp Type:
 Luminous Width: 70 mm
 Luminous Length: 70 mm
 Luminous Height: 65 mm

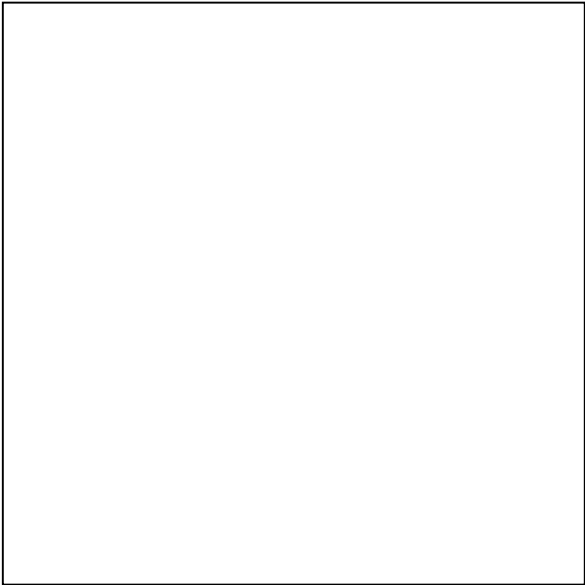
Voltage(V): 221.29 V
 Current(A): 0.0393 A
 Power(W): 5.17 W
 Power Factor: 0.5939
 Lamp Luminous Flux: 435.02

Photometric Results

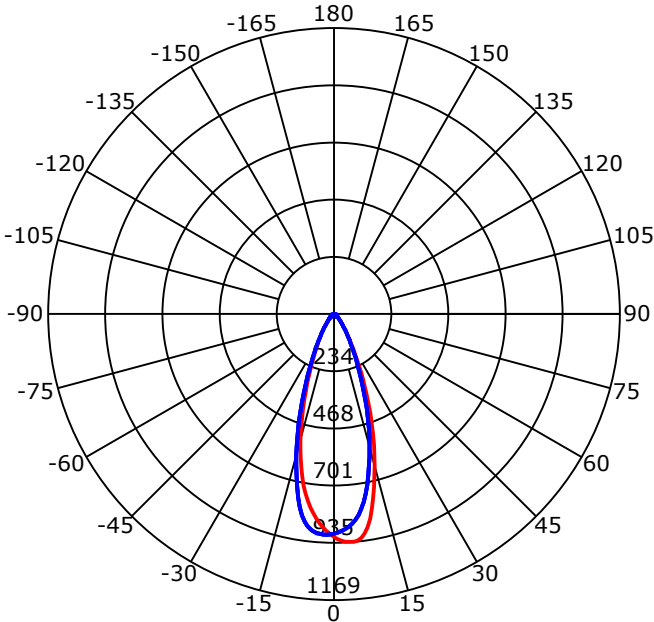
CIE Class: Direct
 Luminaire Luminous Flux: 435.0202 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 84.14 lm/W
 Beam Angle(50%) C0-180,C90-270: 35.7,36.3
 Field Angle(10%) C0-180,C90-270: 66.0,66.8
 S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 935.21 cd
 Max.Intensity Angle: C=0 Gamma=5
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 911.30 cd
 Effective Luminous Flux: 363.71 lm
 ERP(φuse)(120deg): 428.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



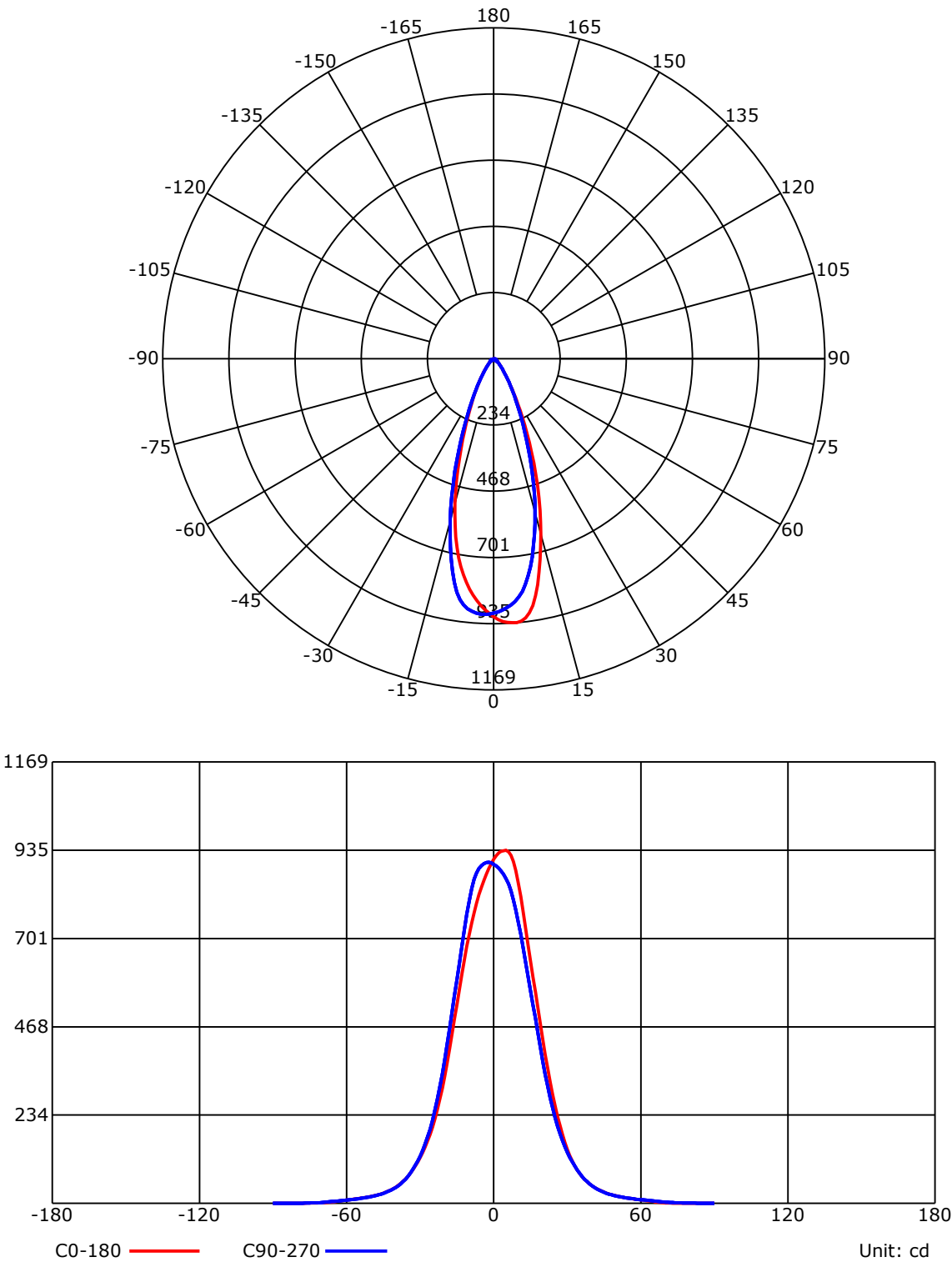
Beam Angle(50%) C0-180,C90-270: 35.7 deg,36.3 deg

C0-180 — C90-270

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:52:08

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

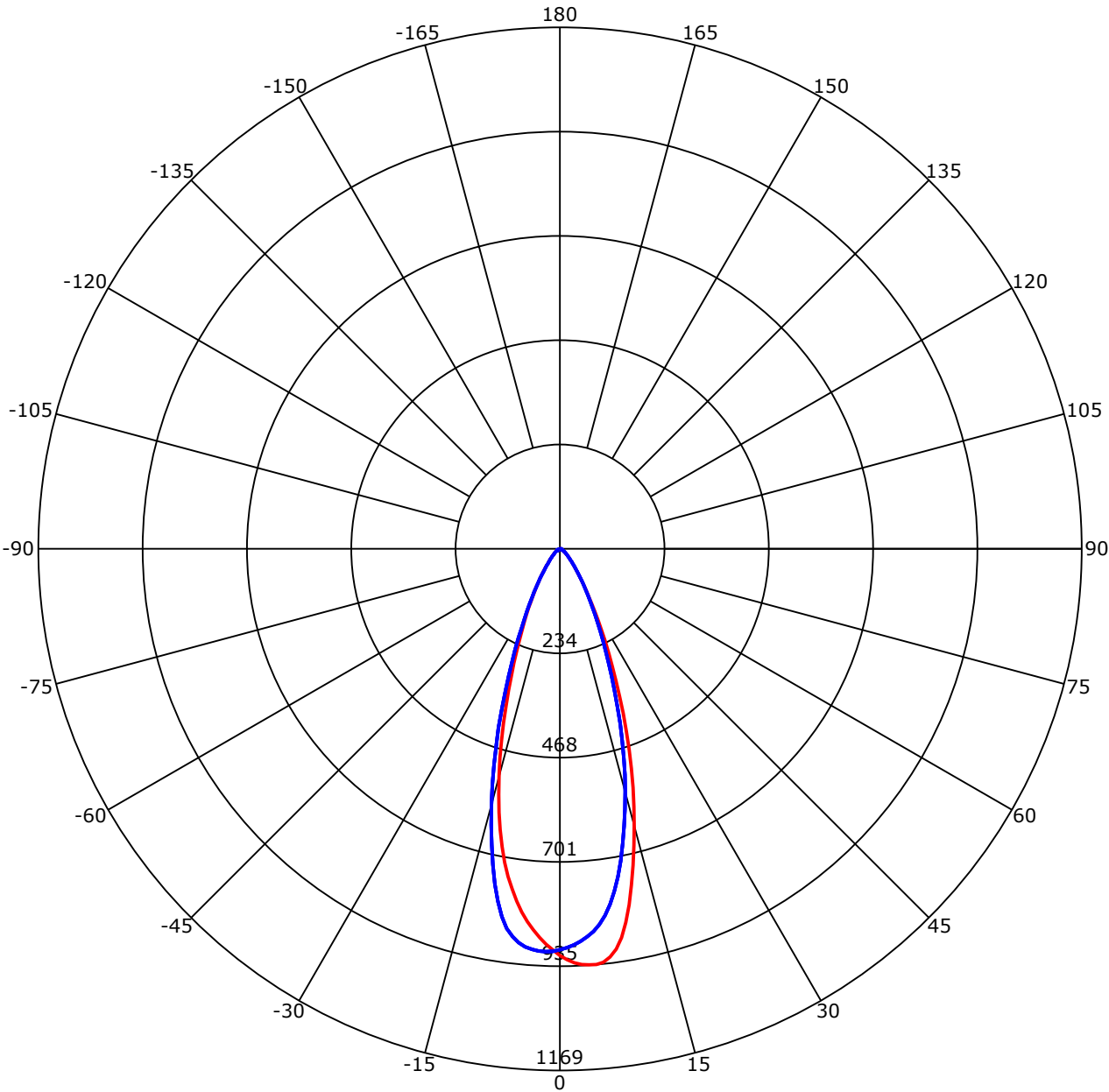
Luminous Intensity Distribution Curve



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 Test Speed: High
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 Test Date: 2025/12/9 14:52:08

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 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

Luminous Intensity Distribution Curve

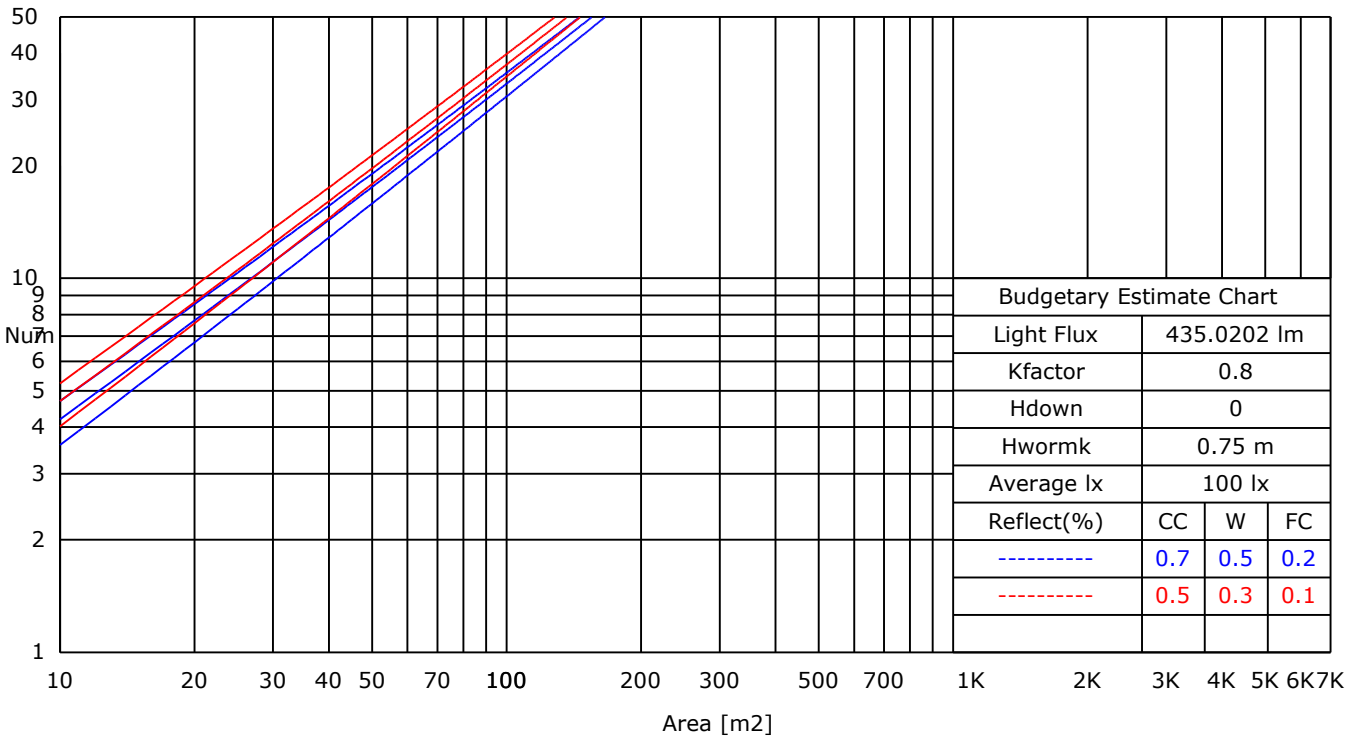


C0-180 C90-270
 Unit: cd/klm

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	0.99	0.97	0.95	0.98	0.96	0.93	0.95	0.92	0.90	0.90	0.88	0.85	0.85	0.82	0.79	0.74
2	0.95	0.93	0.91	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.76	0.71
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.68
4	0.88	0.86	0.84	0.87	0.84	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.70	0.66
5	0.85	0.83	0.82	0.84	0.81	0.80	0.82	0.78	0.76	0.79	0.75	0.72	0.76	0.71	0.68	0.64
6	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
7	0.79	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.77	0.76	0.75	0.76	0.74	0.73	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.62	0.59
9	0.75	0.74	0.73	0.74	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.68	0.64	0.61	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

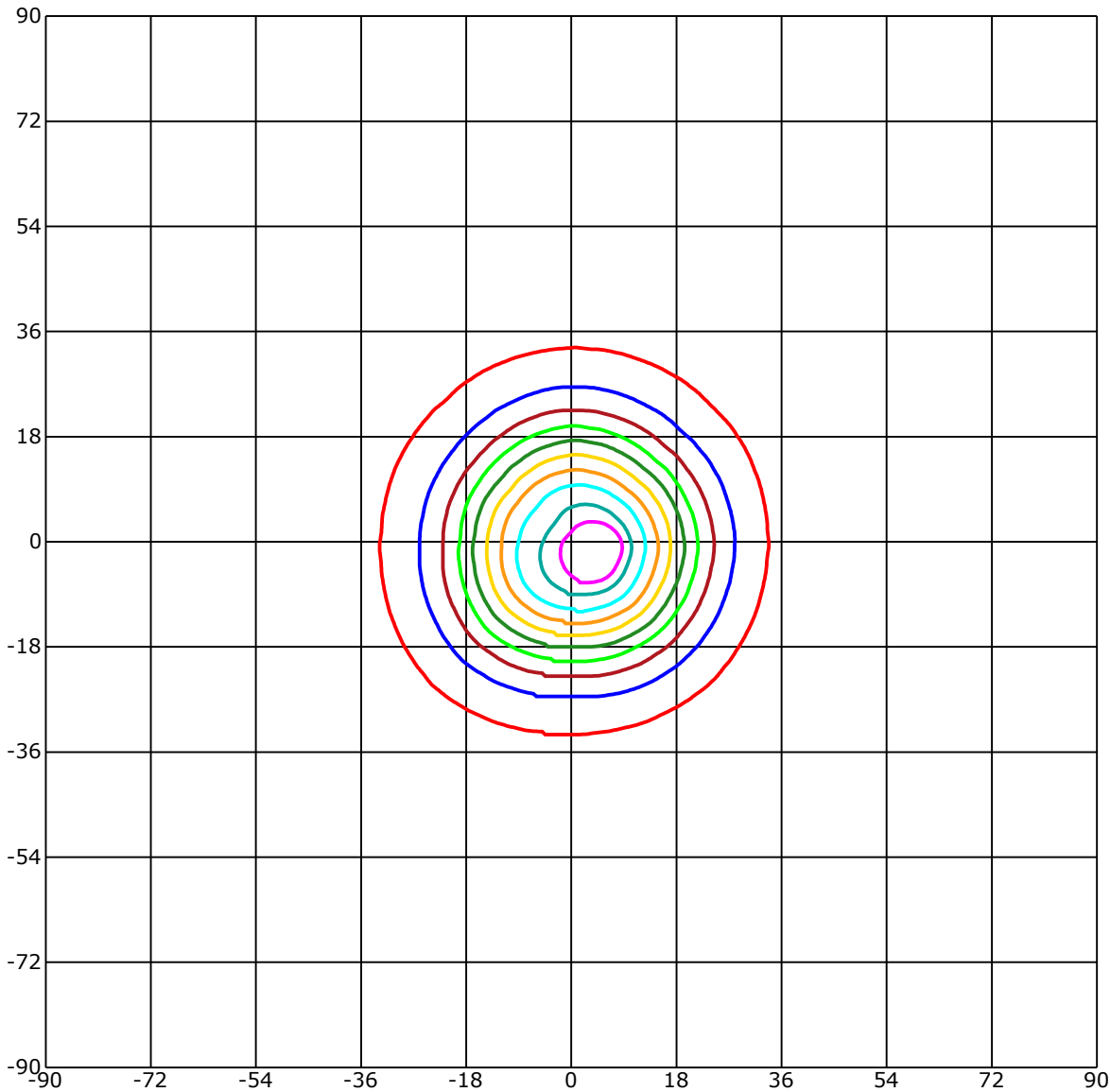
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:52:08

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 (RECTANGULAR)



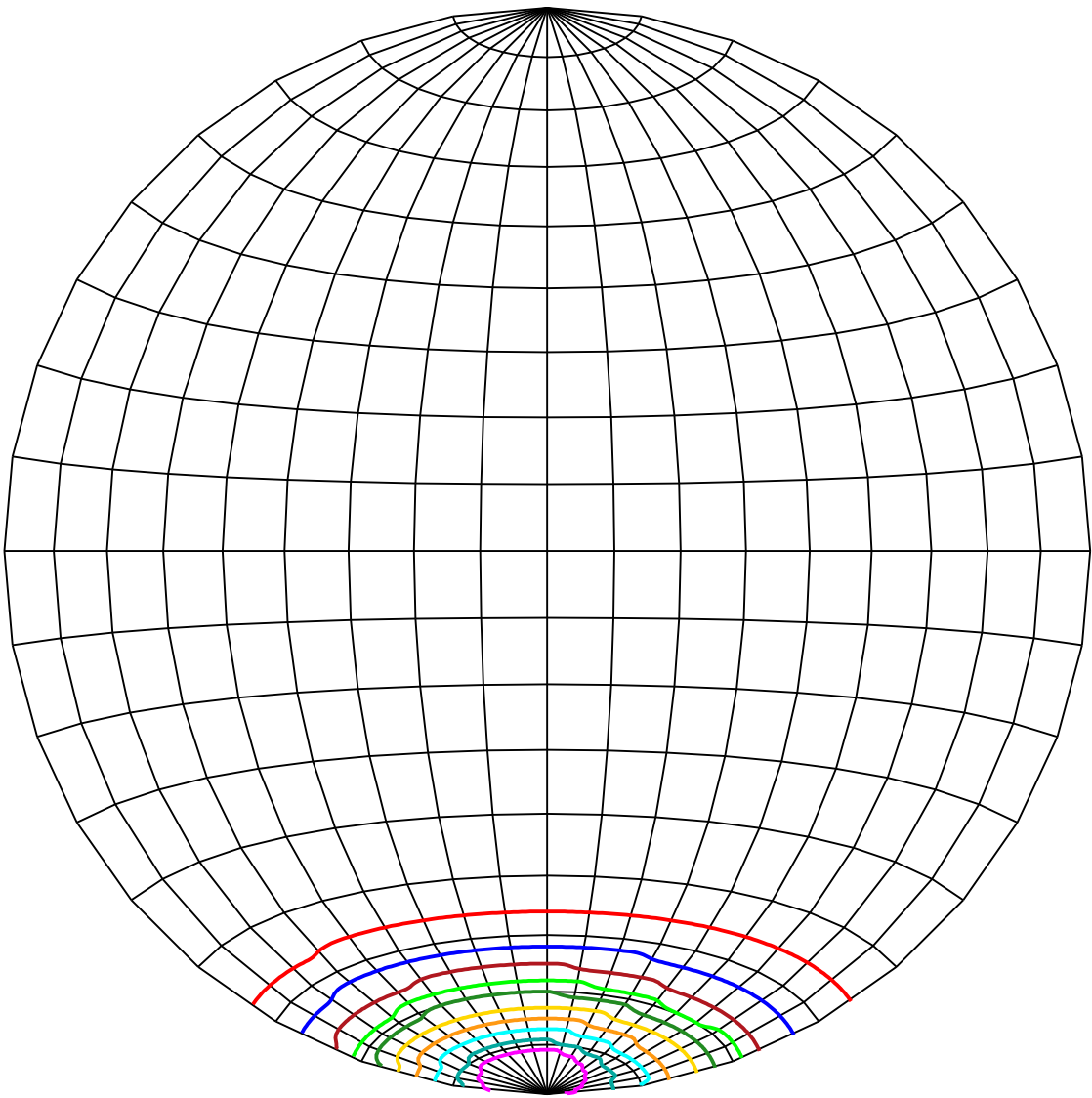
Unit of intensity:cd Imax(100%): 935.205 cd

888.445(95%Imax)	467.603(50%Imax)
841.685(90%Imax)	374.082(40%Imax)
748.164(80%Imax)	280.562(30%Imax)
654.644(70%Imax)	187.041(20%Imax)
561.123(60%Imax)	93.521(10%Imax)

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:52:08

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)



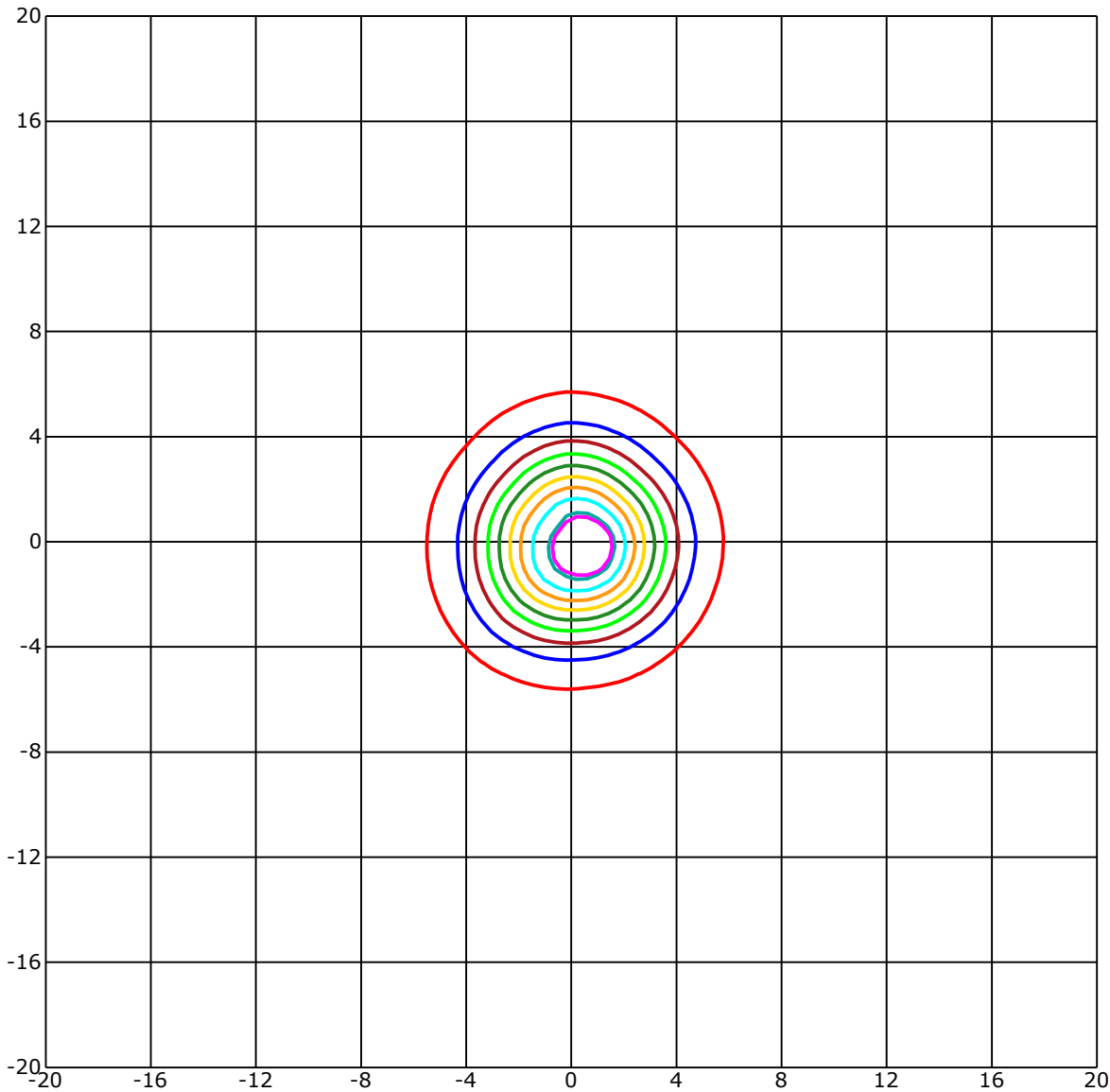
Unit of intensity:cd Imax(100%): 935.205 cd

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841.685(90%Imax)	374.082(40%Imax)
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C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:52:08

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

ISOLX DIAGRAM



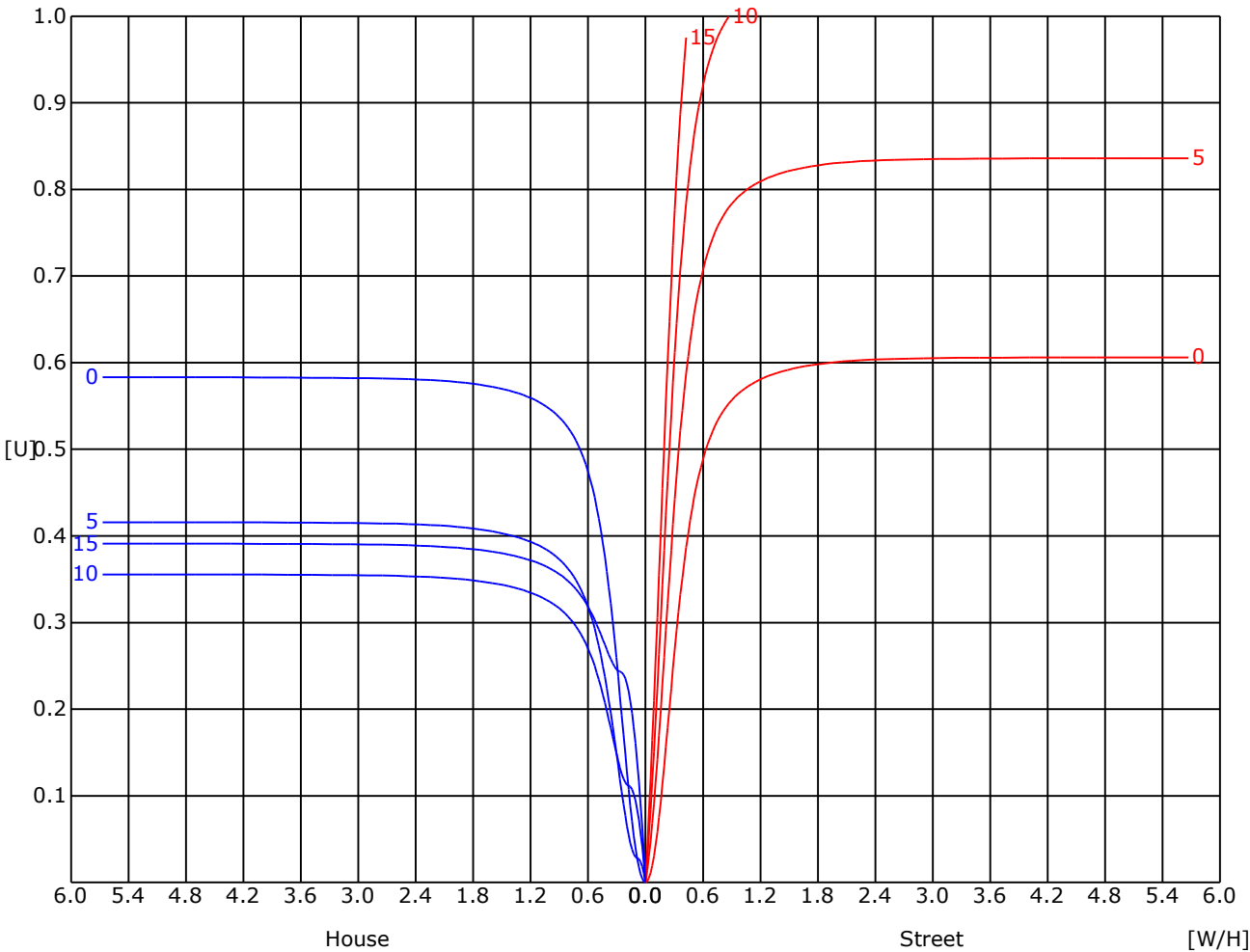
Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

- | | |
|----------------|----------------|
| 8.543(92%Emax) | 4.643(50%Emax) |
| 8.357(90%Emax) | 3.714(40%Emax) |
| 7.428(80%Emax) | 2.786(30%Emax) |
| 6.5(70%Emax) | 1.857(20%Emax) |
| 5.571(60%Emax) | 0.929(10%Emax) |

C Range: 0 - 360 Deg
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 Test Speed: High
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 Test Date: 2025/12/9 14:52:08

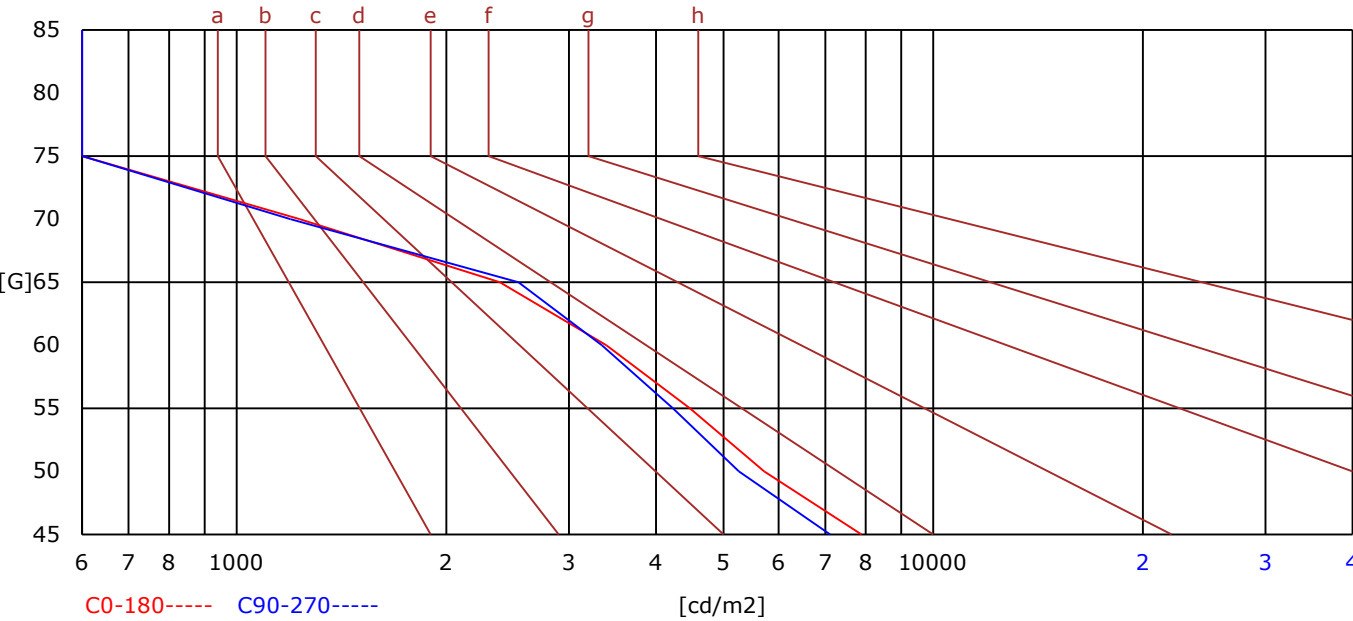
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

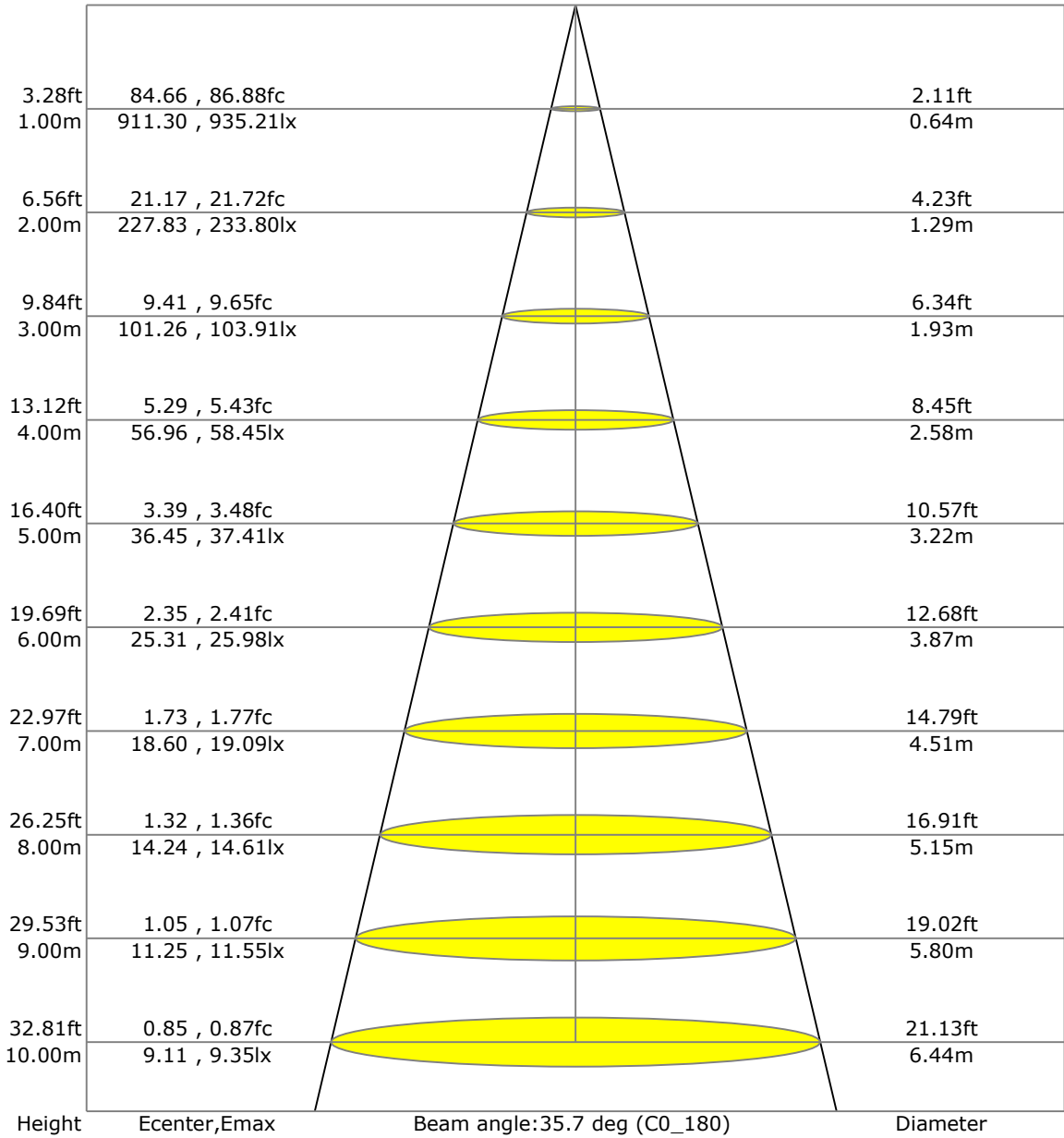


BRIGHT LIMIT DIAGRAM

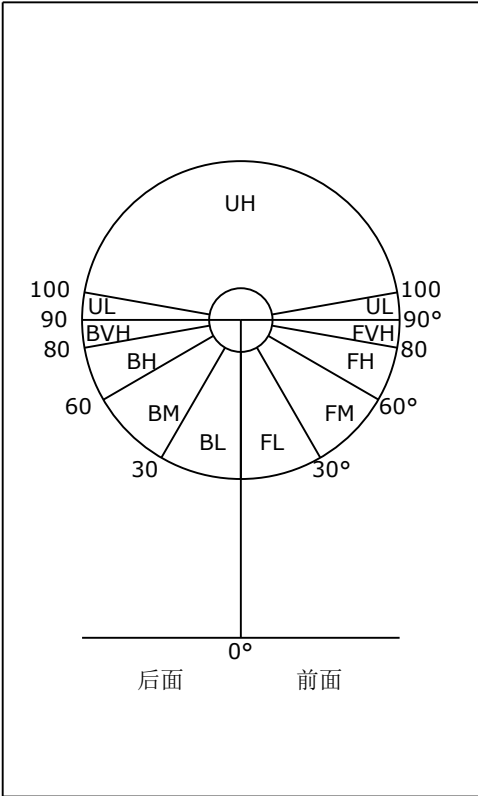
C/G	45	50	55	60	65	70	75	80	85
C0	7891	5721	4475	3397	2387	1232	395	0	0
C90	7115	5264	4230	3345	2538	1195	345	0	147
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



LX-DISTANCE DIAGRAM



BUG等级评价表



区域	光通量(lm)	光通量(%)
前面	210.9	48.5
FL (0°-30°)	166.8	38.4
FM (30°-60°)	40.9	9.4
FH (60°-80°)	3.1	0.7
FVH (80°-90°)	0.1	0.0
后面	224.1	51.5
BL (0°-30°)	178.5	41.0
BM (30°-60°)	42.0	9.7
BH (60°-80°)	3.4	0.8
BVH (80°-90°)	0.1	0.0
上面	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0
限制光	NA	NA

BUG评价等级(基于TM-15-07)	
非对称灯具 (Type I , II , III , IV)	B1 U0 G0
对称灯具 (Type V , Area Light)	B1 U0 G0

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	12.93	12.98	13.13	13.17	13.41	12.94	12.99	13.14	13.18	13.42
3H	12.93	12.98	13.13	13.17	13.42	12.93	12.98	13.14	13.18	13.42
4H	12.91	12.97	13.12	13.16	13.41	12.91	12.97	13.13	13.17	13.41
6H	12.89	12.95	13.11	13.15	13.40	12.90	12.95	13.11	13.15	13.40
8H	12.89	12.94	13.10	13.14	13.40	12.89	12.94	13.11	13.15	13.40
12H	12.88	12.93	13.10	13.14	13.39	12.88	12.93	13.10	13.14	13.39
4H 2H	13.11	13.16	13.32	13.36	13.61	13.26	13.31	13.47	13.51	13.76
3H	13.10	13.16	13.32	13.36	13.62	13.25	13.30	13.47	13.51	13.76
4H	13.08	13.14	13.31	13.35	13.61	13.23	13.28	13.46	13.49	13.75
6H	13.06	13.11	13.30	13.33	13.60	13.20	13.26	13.44	13.48	13.74
8H	13.05	13.10	13.29	13.32	13.59	13.19	13.24	13.43	13.47	13.74
12H	13.03	13.08	13.28	13.32	13.59	13.18	13.23	13.43	13.46	13.73
8H 4H	13.08	13.14	13.30	13.34	13.59	13.25	13.31	13.47	13.51	13.77
6H	13.02	13.07	13.28	13.31	13.58	13.19	13.24	13.44	13.48	13.75
8H	13.01	13.05	13.27	13.30	13.57	13.17	13.22	13.43	13.47	13.74
12H	12.99	13.03	13.26	13.29	13.57	13.16	13.20	13.43	13.45	13.74
12H 4H	13.03	13.09	13.28	13.32	13.59	13.21	13.26	13.46	13.49	13.76
6H	13.01	13.05	13.27	13.30	13.57	13.18	13.23	13.44	13.47	13.75

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 14:52:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

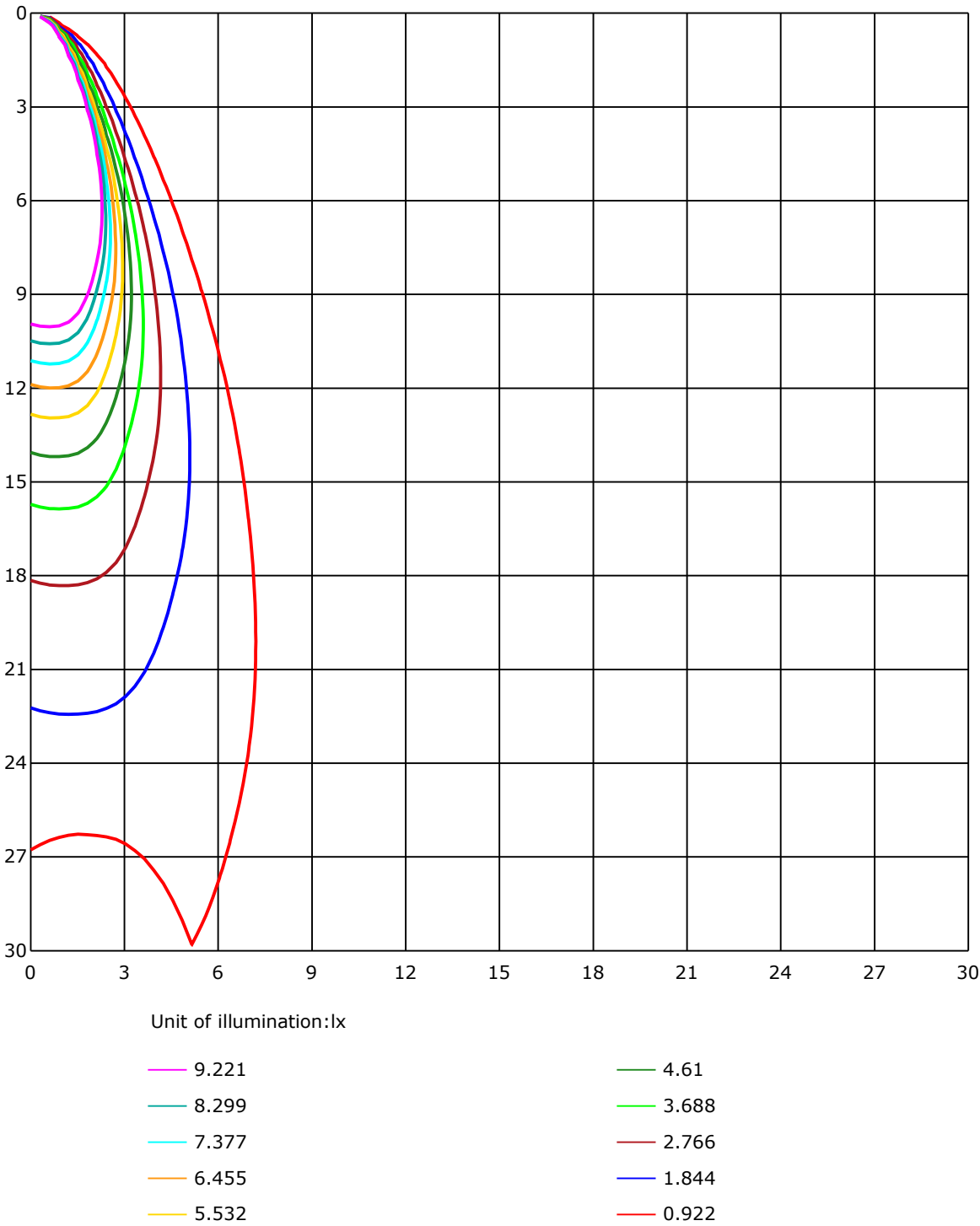
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:52:08

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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	911.3	901.79	898.1	896.98	911.3	901.79	898.1	896.98	911.3	
G1	921.13	903.36	893.72	885.65	899.1	898.23	901.73	907.55	921.13	
G2	928.07	903.3	887.84	873.58	886.97	893.41	903.23	915.43	928.07	
G3	932.39	902.04	880.46	859.81	872.2	886.65	902.67	920.75	932.39	
G4	934.08	898.42	871.57	843.61	855.74	878.71	899.92	924.63	934.08	
G5	935.21	891.28	860.44	822.9	838.22	867.07	894.97	925.51	935.21	
G6	931.2	879.96	846.05	802.69	818.2	854.81	887.34	923.76	931.2	
G7	921.5	863.82	827.71	781.54	795.37	840.67	875.39	916.87	921.5	
G8	905.36	841.92	804.06	757.01	770.09	821.46	858.75	902.17	905.36	
G9	881.83	811.88	776.85	728.17	743.25	798.06	834.22	881.21	881.83	
G10	849.93	778.28	746.19	698.07	713.28	772.72	802.37	854.62	849.93	
G11	812.45	741.06	711.77	665.79	679.8	742.31	765.21	821.33	812.45	
G12	770.59	699.32	674.86	629.18	643.58	705.52	723.41	781.16	770.59	
G13	727.54	656.34	637.38	589.27	606.41	666.91	680.8	737.68	727.54	
G14	684.49	617.11	601.09	551.29	567.62	628.37	637.19	694.76	684.49	
G15	642.7	578.38	563.61	513.81	528.01	589.89	594.33	651.46	642.7	
G16	601.22	536.27	526.7	474.45	487.78	549.1	550.72	603.84	601.22	
G17	559.48	492.66	489.6	435.16	448.55	508.05	506.36	557.54	559.48	
G18	517.38	451.93	451.05	398.93	409.76	469.64	463.38	514.69	517.38	
G19	475.52	412.57	413.39	363.71	372.34	432.66	422.65	471.58	475.52	
G20	434.85	372.34	376.03	327.54	337.37	394.18	381.73	426.34	434.85	
G21	394.68	334.61	341.37	292.82	304.96	358.08	343.44	385.17	394.68	
G22	356.58	302.64	309.02	264.98	275.42	324.48	307.77	348.38	356.58	
G23	321.41	273.8	278.87	238.82	248.58	292.76	276.18	314.53	321.41	
G24	288.56	245.77	253.03	213.86	223.37	262.72	247.46	279.99	288.56	
G25	259.53	219.36	227.75	191.77	201.47	235.19	220.24	250.15	259.53	
G26	231.13	197.4	205.1	174.06	182.26	211.48	196.21	222.81	231.13	
G27	205.85	177.51	184.26	157.42	164.68	190.14	175.5	199.03	205.85	
G28	182.57	159.3	165.99	141.72	148.72	169.81	157.17	175.07	182.57	
G29	161.49	142.78	149.91	127.51	134.58	152.54	140.47	154.73	161.49	
G30	142.72	128.83	135.08	115.44	121.44	137.02	125.45	137.21	142.72	
G31	126.39	116.63	121.57	104.93	109.56	123.01	112.25	121.82	126.39	
G32	111.87	104.8	109.99	94.29	98.42	109.81	100.48	107.24	111.87	
G33	99.48	93.85	98.86	84.15	88.72	98.36	89.91	95.17	99.48	
G34	88.41	84.78	88.85	75.71	79.77	88.78	80.27	85.16	88.41	
G35	79.4	76.21	79.71	68.26	71.64	80.09	71.89	76.77	79.4	
G36	71.2	68.64	71.33	60.63	64.19	71.83	64.07	68.45	71.2	

Report No.:

Test Time: 2025/12/9 14:52:08

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	63.63	60.82	64.13	54.06	57.94	64.26	57.25	61.32	63.63	
G38	57.56	54.75	57.81	48.68	52.31	58.0	51.31	55.56	57.56	
G39	51.81	49.43	52.06	43.99	47.3	52.24	46.3	50.49	51.81	
G40	47.11	44.42	46.99	39.61	42.73	46.93	41.86	45.55	47.11	
G41	42.61	39.79	42.48	35.73	38.79	42.36	38.23	41.42	42.61	
G42	38.79	36.04	38.54	32.47	35.66	38.54	34.66	38.04	38.79	
G43	35.41	32.85	34.98	29.59	32.47	35.1	31.78	34.73	35.41	
G44	32.41	29.91	31.85	26.97	29.66	31.85	29.16	31.78	32.41	
G45	29.59	27.34	29.09	24.65	27.15	29.09	26.47	29.22	29.59	
G46	27.15	25.15	26.65	22.71	24.9	26.84	24.46	27.03	27.15	
G47	25.21	22.96	24.53	20.96	22.96	24.84	22.77	25.09	25.21	
G48	23.03	21.34	22.9	19.27	21.34	22.9	20.84	23.15	23.03	
G49	21.27	19.46	20.96	17.83	19.9	21.27	19.27	21.46	21.27	
G50	19.71	18.02	19.52	16.58	18.46	19.58	17.77	19.96	19.71	
G51	18.27	16.71	18.02	15.45	17.21	18.21	16.27	18.71	18.27	
G52	16.71	15.45	16.83	14.45	15.77	16.89	15.45	17.21	16.71	
G53	15.64	14.39	15.77	13.45	15.02	15.7	14.39	16.02	15.64	
G54	14.52	13.45	14.64	12.7	14.08	14.77	13.39	15.08	14.52	
G55	13.58	12.58	13.76	11.89	13.26	13.83	12.45	14.14	13.58	
G56	12.89	11.64	12.89	11.07	12.39	13.08	11.51	13.2	12.89	
G57	11.7	10.7	11.95	10.2	11.39	12.14	10.76	12.2	11.7	
G58	10.82	9.82	11.14	9.7	10.39	11.01	9.76	11.32	10.82	
G59	10.01	9.07	10.32	8.76	9.51	10.39	9.07	10.51	10.01	
G60	9.2	8.32	9.64	8.2	8.63	9.57	8.38	9.89	9.2	
G61	8.45	7.57	9.07	7.57	7.88	8.95	7.76	9.01	8.45	
G62	7.51	6.88	8.38	7.01	7.07	8.38	7.01	8.26	7.51	
G63	6.69	6.32	7.7	6.44	6.26	7.7	6.38	7.7	6.69	
G64	5.88	5.76	7.01	5.82	4.88	7.13	5.82	7.07	5.88	
G65	4.82	4.94	6.44	5.26	3.88	6.57	5.32	6.51	4.82	
G66	3.32	4.63	5.88	4.69	3.25	6.07	4.82	5.94	3.32	
G67	2.69	3.75	5.32	4.25	2.69	5.38	4.38	5.38	2.69	
G68	2.13	3.0	4.63	3.63	2.19	4.94	3.75	4.76	2.13	
G69	1.56	2.25	3.75	2.69	1.75	4.32	2.94	3.69	1.56	
G70	1.13	2.06	3.13	2.0	1.44	3.44	2.32	2.94	1.13	
G71	0.81	1.5	2.69	1.56	1.25	2.75	1.94	2.5	0.81	
G72	0.56	1.19	2.13	1.19	1.06	2.25	1.56	2.19	0.56	
G73	0.44	0.88	2.0	0.81	0.94	2.0	1.31	1.69	0.44	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 14:52:08

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

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 14:52:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks: