

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
 Luminaire Type:L-R703-COB2-30K-36-WH
 Lamp Type:
 Luminous Width: 70 mm
 Luminous Length: 70 mm
 Luminous Height: 65 mm

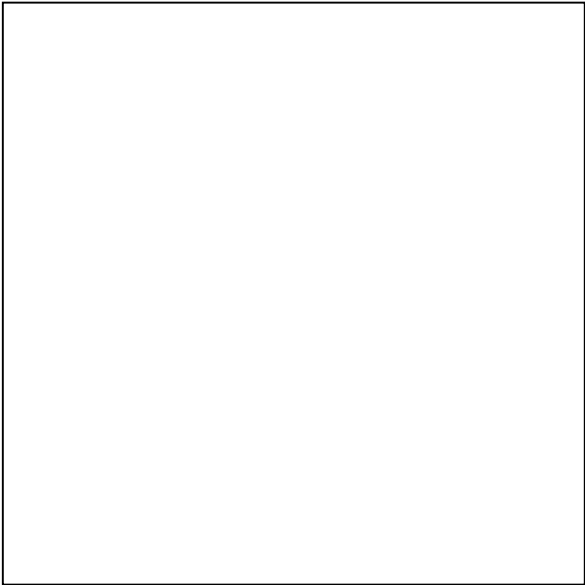
Voltage(V): 221.35 V
 Current(A): 0.0498 A
 Power(W): 6.75 W
 Power Factor: 0.6126
 Lamp Luminous Flux: 565.94

Photometric Results

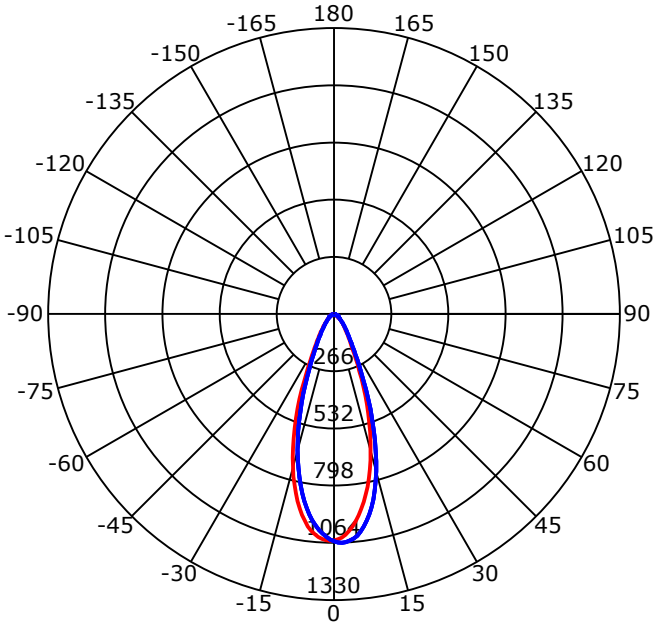
CIE Class: Direct
 Luminaire Luminous Flux: 565.9417 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 83.84 lm/W
 Beam Angle(50%) C0-180,C90-270: 37.9,37.6
 Field Angle(10%) C0-180,C90-270: 70.2,70.0
 S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 1063.72 cd
 Max.Intensity Angle: C=90 Gamma=2
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 1053.15 cd
 Effective Luminous Flux: 456.21 lm
 ERP(φuse)(120deg): 549.60 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



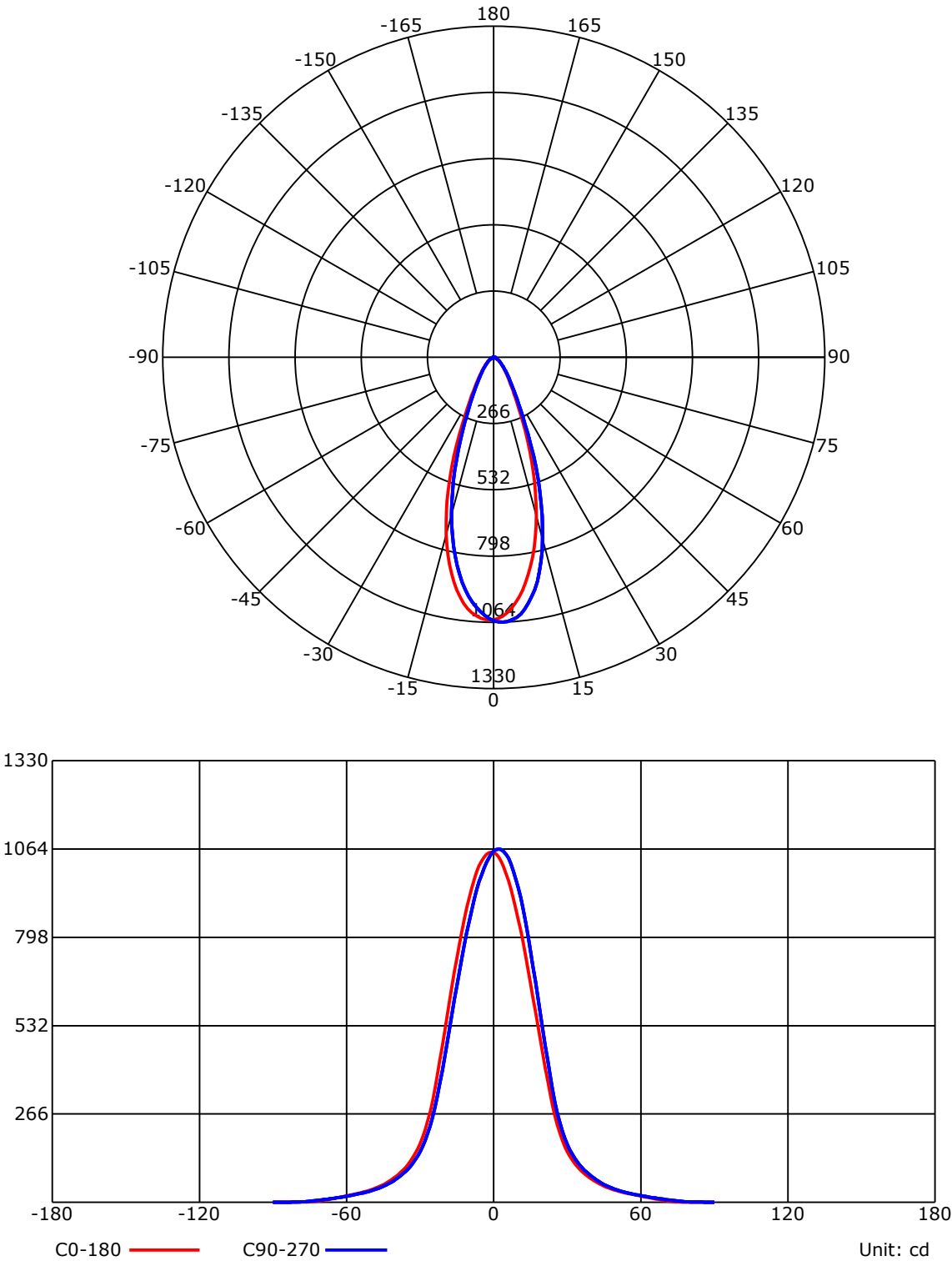
Beam Angle(50%) C0-180,C90-270: 37.9 deg,37.6 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:36:29

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

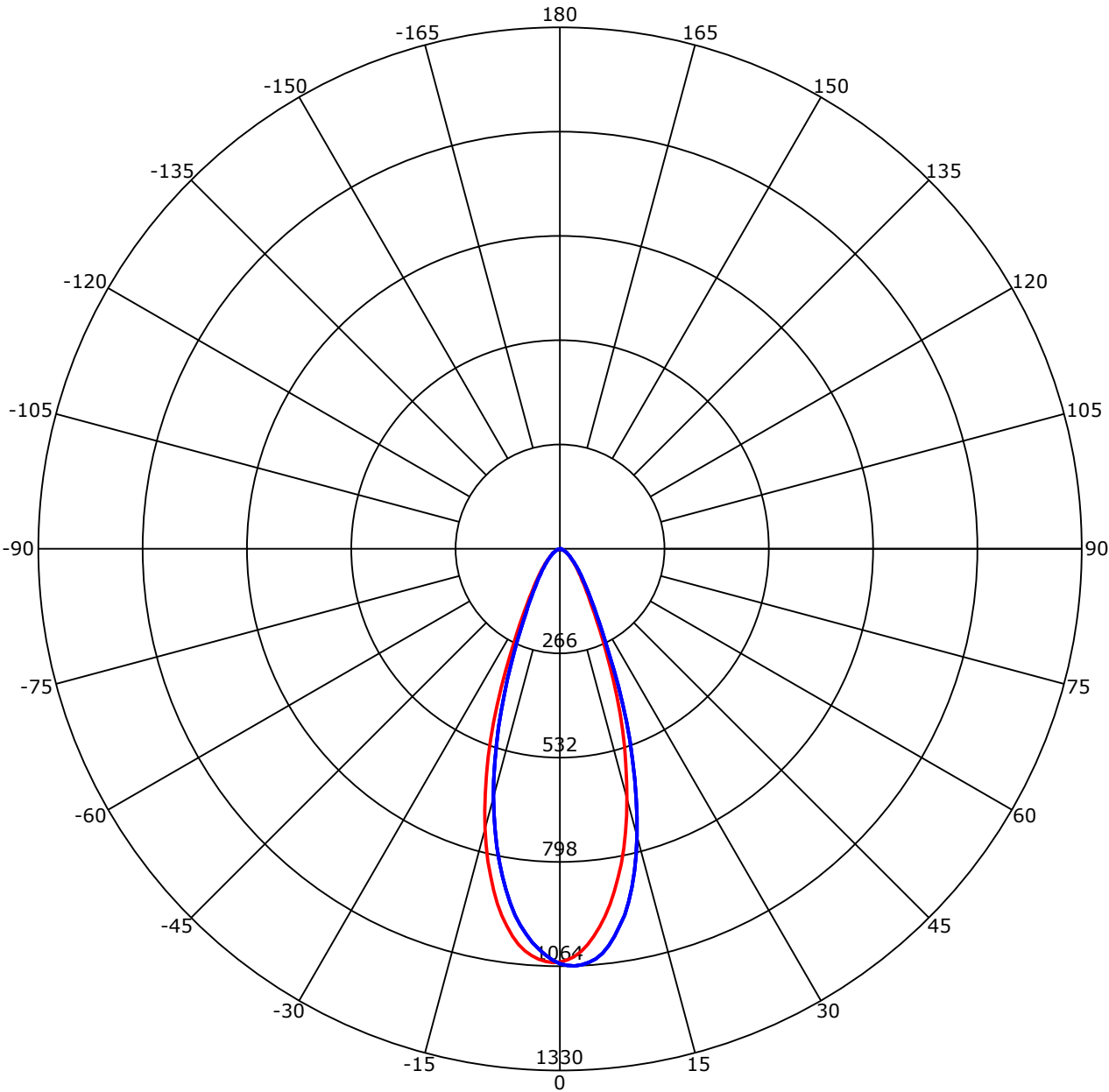
Luminous Intensity Distribution Curve



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 Temperature:
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 Test Date: 2025/12/9 14:36:29

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

Luminous Intensity Distribution Curve

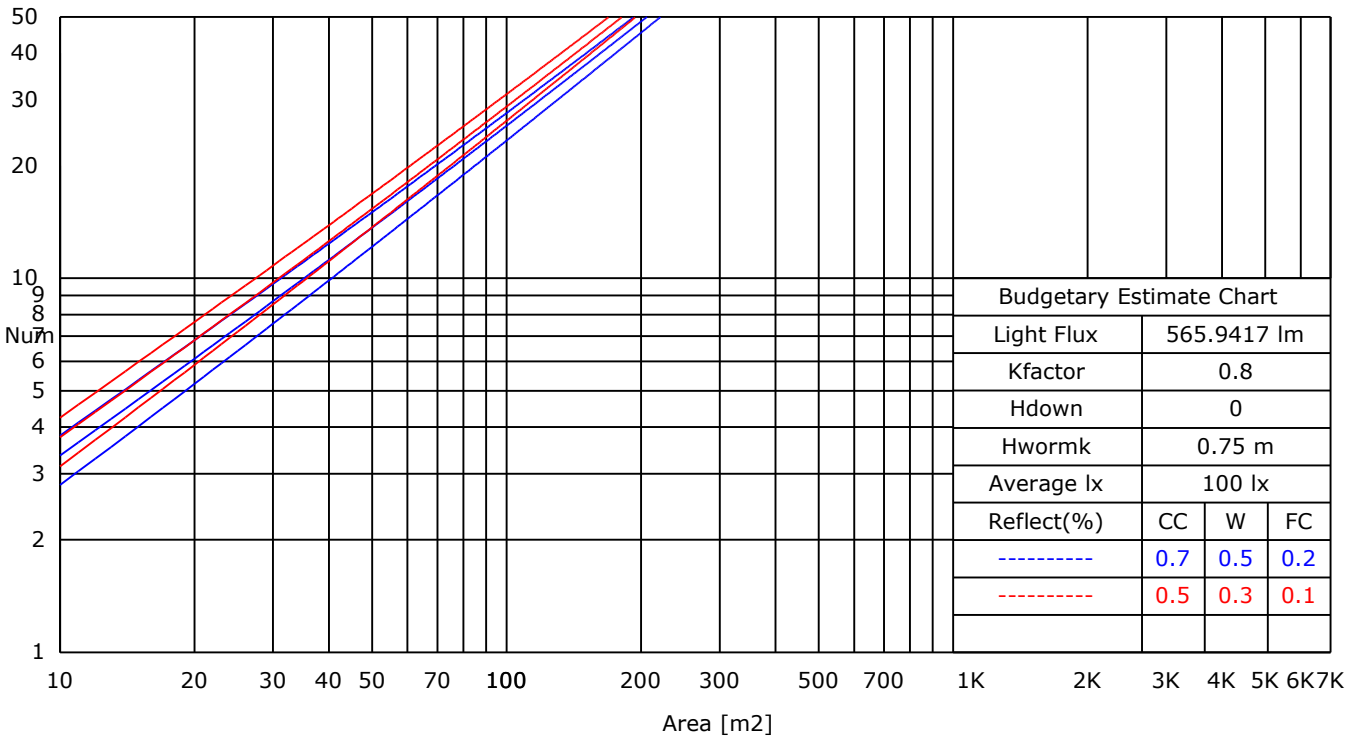


C0-180 C90-270
 Unit: cd/klm

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	1.01	0.98	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.93	0.92	0.95	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
6	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.61
7	0.78	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.66	0.71	0.66	0.63	0.59
8	0.75	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
9	0.73	0.72	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.56
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	0.60	0.57	0.54

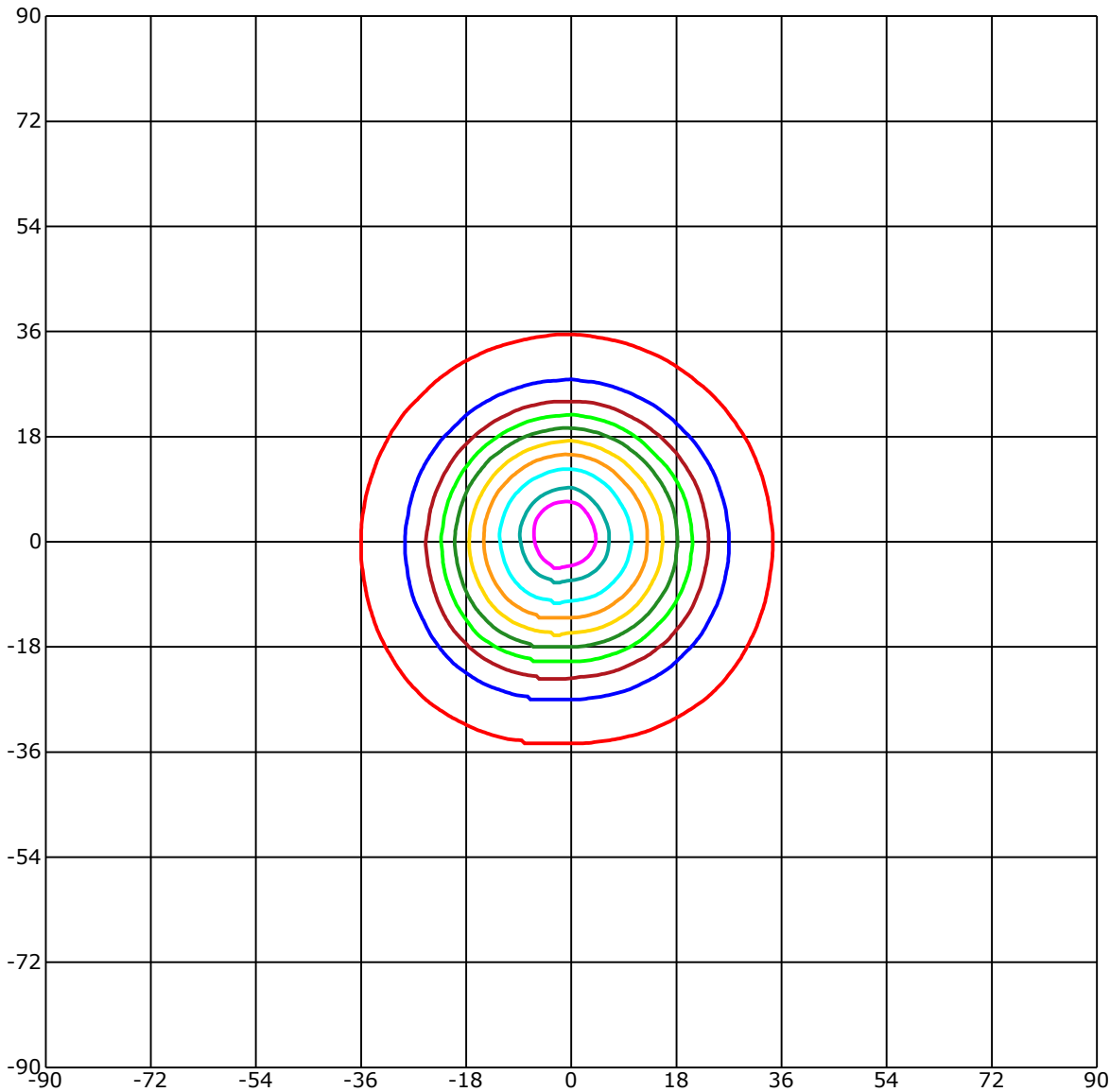
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:36:29

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)



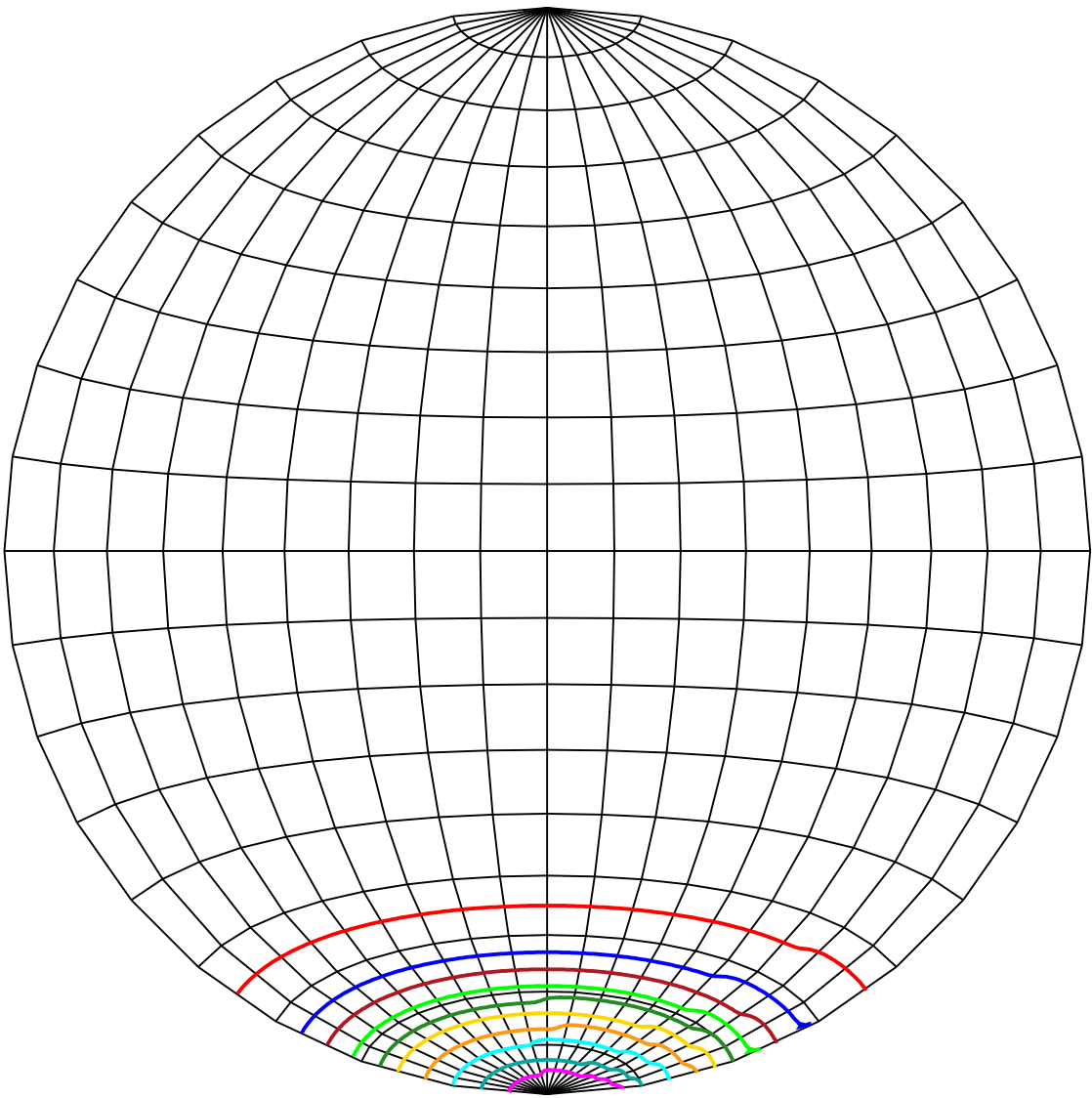
Unit of intensity:cd Imax(100%): 1063.72 cd

1010.534(95%Imax)	531.86(50%Imax)
957.348(90%Imax)	425.488(40%Imax)
850.976(80%Imax)	319.116(30%Imax)
744.604(70%Imax)	212.744(20%Imax)
638.232(60%Imax)	106.372(10%Imax)

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2025/12/9 14:36:29

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)



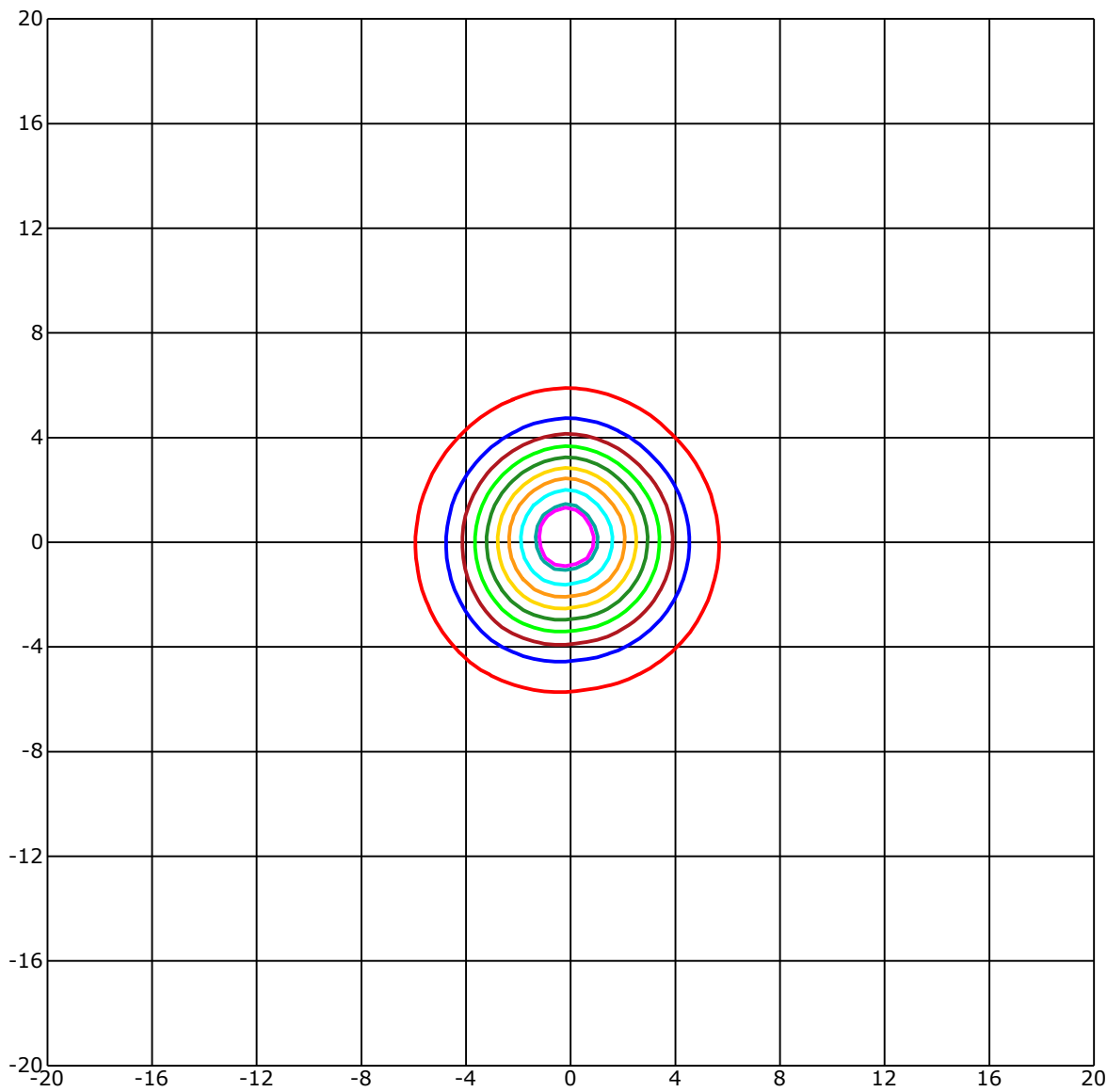
Unit of intensity:cd Imax(100%): 1063.72 cd

1010.534(95%Imax)	531.86(50%Imax)
957.348(90%Imax)	425.488(40%Imax)
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744.604(70%Imax)	212.744(20%Imax)
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C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
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 Test Date: 2025/12/9 14:36:29

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



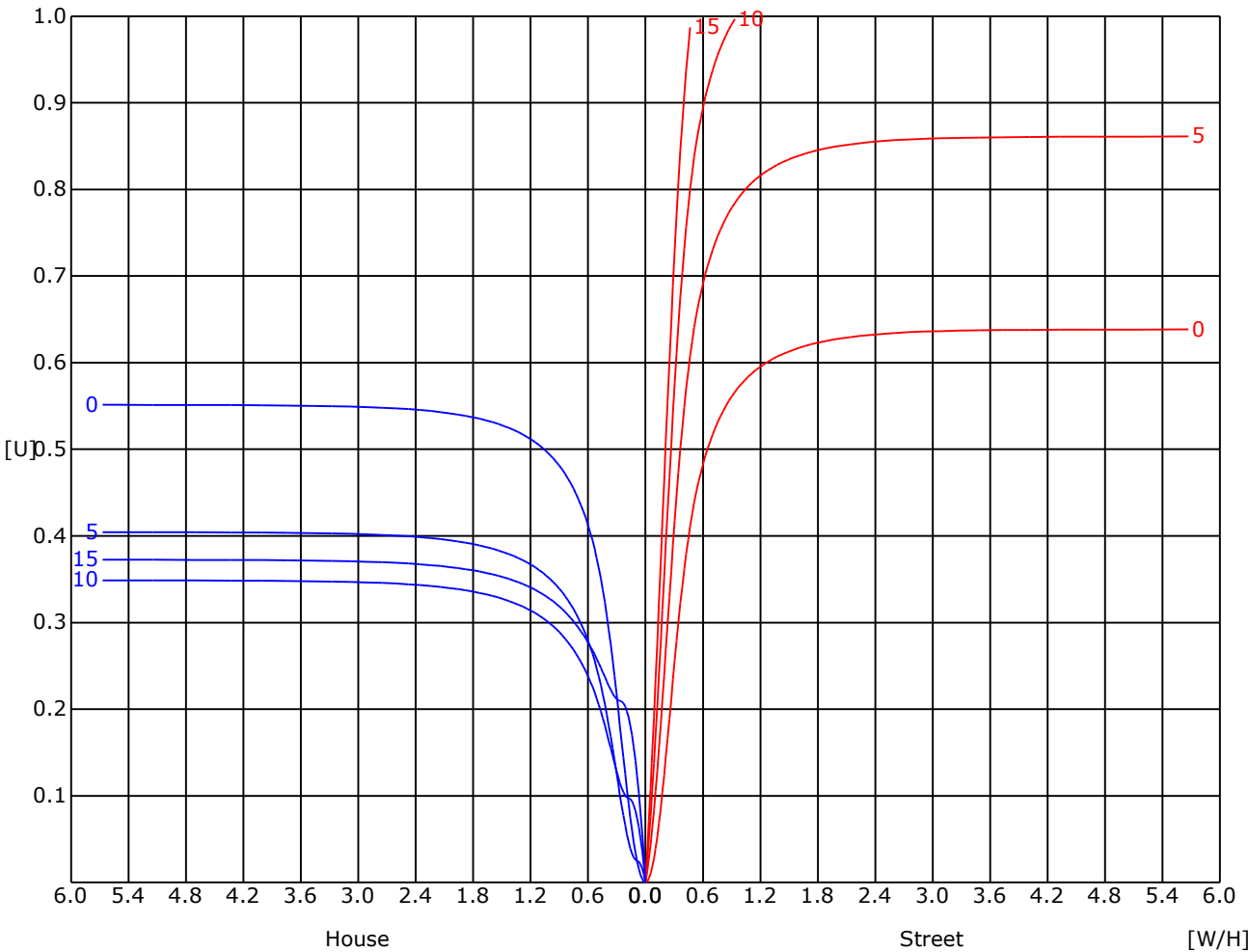
Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

- | | |
|----------------|----------------|
| 9.768(92%Emax) | 5.309(50%Emax) |
| 9.556(90%Emax) | 4.247(40%Emax) |
| 8.494(80%Emax) | 3.185(30%Emax) |
| 7.432(70%Emax) | 2.124(20%Emax) |
| 6.371(60%Emax) | 1.062(10%Emax) |

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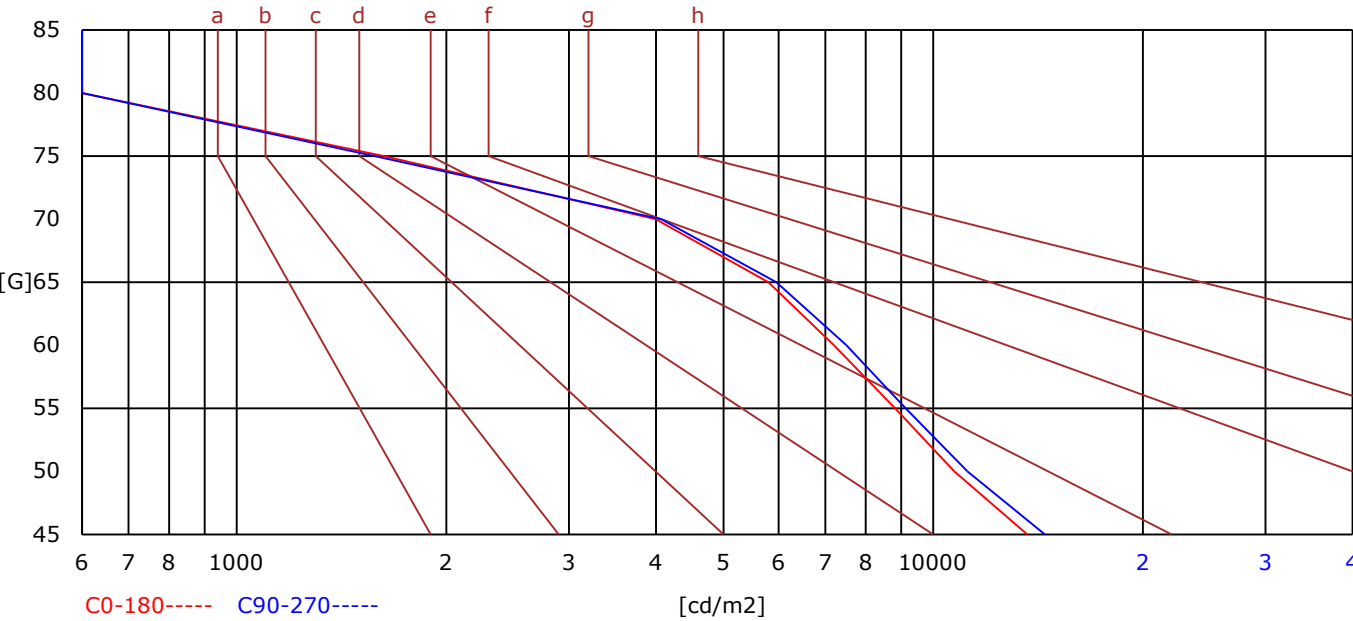
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 7.91 m
 Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)

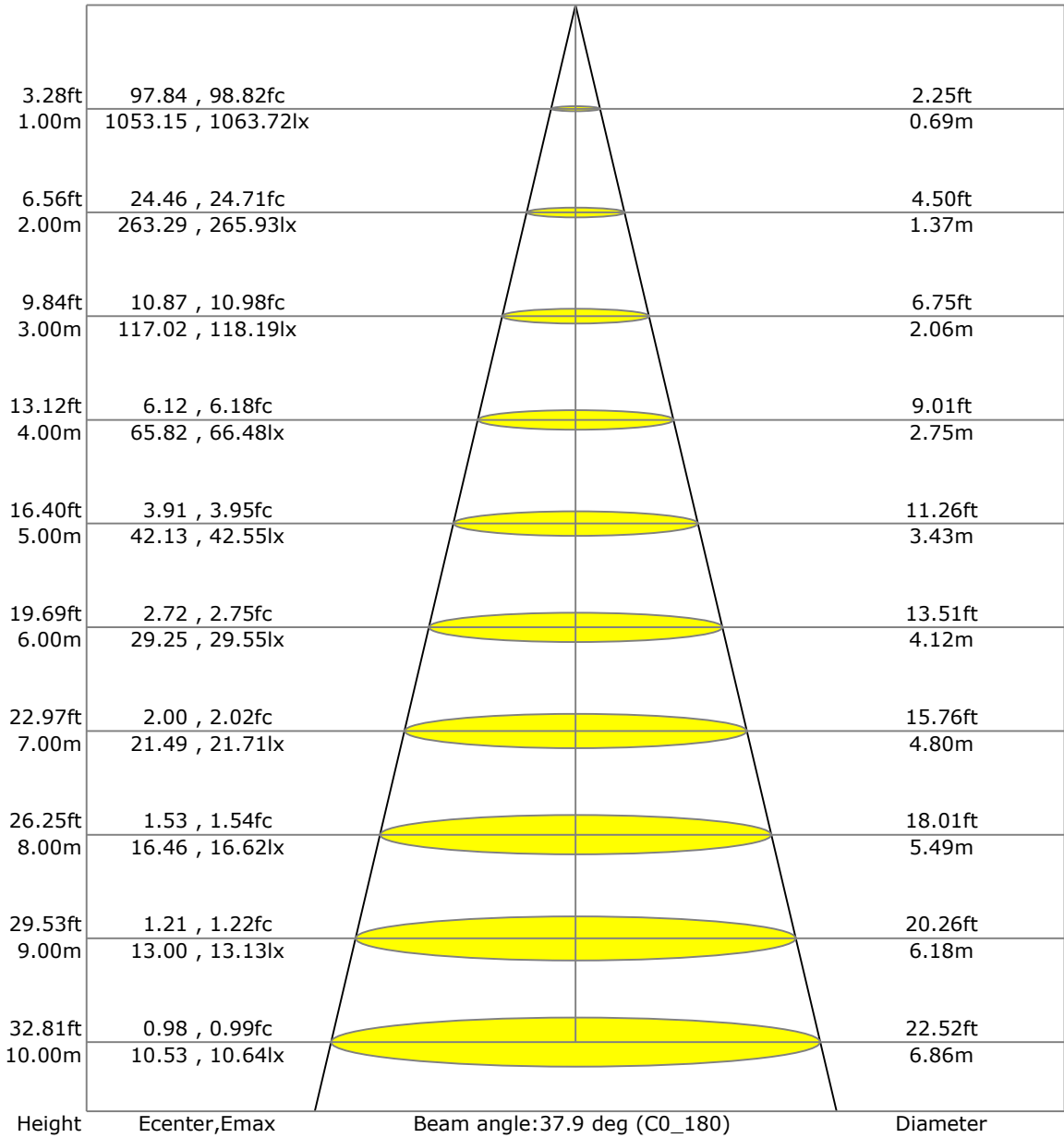


BRIGHT LIMIT DIAGRAM

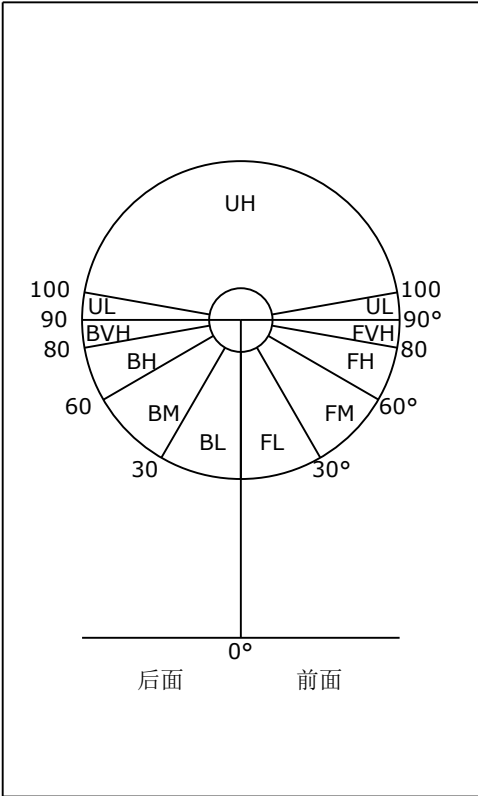
C/G	45	50	55	60	65	70	75	80	85
C0	13652	10727	8816	7202	5801	3995	1628	368	0
C90	14465	11204	9127	7508	5952	4069	1579	368	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



LX-DISTANCE DIAGRAM



BUG等级评价表



区域	光通量(lm)	光通量(%)
前面	286.9	50.7
FL (0°-30°)	212.9	37.6
FM (30°-60°)	66.2	11.7
FH (60°-80°)	7.6	1.4
FVH (80°-90°)	0.2	0.0
后面	279.1	49.3
BL (0°-30°)	204.1	36.1
BM (30°-60°)	66.4	11.7
BH (60°-80°)	8.3	1.5
BVH (80°-90°)	0.2	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	14.66	14.71	14.86	14.90	15.14	14.76	14.81	14.96	15.00	15.24
3H	14.69	14.74	14.89	14.94	15.18	14.77	14.83	14.98	15.02	15.27
4H	14.68	14.73	14.89	14.93	15.18	14.76	14.81	14.97	15.01	15.26
6H	14.66	14.71	14.87	14.91	15.17	14.74	14.80	14.96	15.00	15.25
8H	14.65	14.70	14.87	14.91	15.16	14.73	14.79	14.95	14.99	15.24
12H	14.64	14.69	14.86	14.90	15.15	14.72	14.78	14.94	14.98	15.24
4H 2H	15.15	15.21	15.36	15.40	15.65	15.46	15.52	15.67	15.71	15.96
3H	15.19	15.25	15.42	15.46	15.71	15.49	15.55	15.71	15.75	16.01
4H	15.18	15.23	15.41	15.45	15.70	15.47	15.53	15.70	15.74	16.00
6H	15.16	15.21	15.39	15.43	15.69	15.45	15.50	15.69	15.72	15.98
8H	15.14	15.19	15.39	15.42	15.69	15.43	15.49	15.68	15.71	15.98
12H	15.13	15.18	15.38	15.41	15.68	15.42	15.47	15.67	15.70	15.97
8H 4H	15.13	15.18	15.35	15.39	15.64	15.47	15.52	15.69	15.73	15.98
6H	15.12	15.17	15.37	15.40	15.68	15.45	15.50	15.70	15.73	16.01
8H	15.10	15.15	15.36	15.39	15.67	15.43	15.48	15.69	15.72	16.00
12H	15.08	15.13	15.35	15.38	15.66	15.41	15.46	15.68	15.71	15.99
12H 4H	15.13	15.18	15.38	15.41	15.68	15.47	15.52	15.72	15.75	16.02
6H	15.10	15.15	15.36	15.39	15.67	15.44	15.48	15.70	15.73	16.01

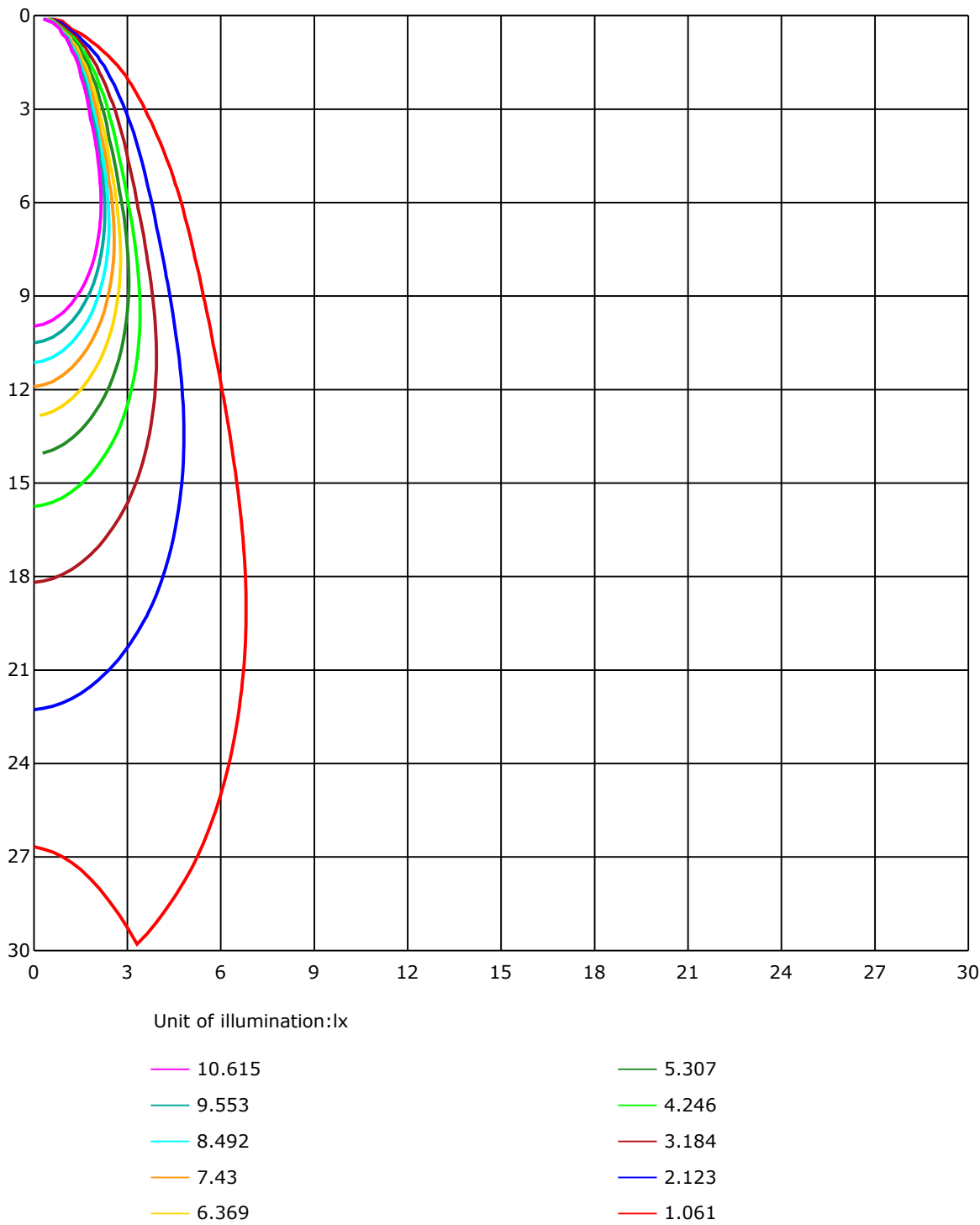
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/12/9 14:36:29

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	1053.15	1056.02	1056.96	1057.21	1053.15	1056.02	1056.96	1057.21	1053.15	
G1	1048.14	1053.9	1061.97	1062.03	1054.46	1054.02	1048.95	1050.02	1048.14	
G2	1039.82	1048.08	1063.72	1063.16	1052.46	1049.2	1036.75	1039.44	1039.82	
G3	1027.18	1038.82	1061.78	1061.16	1047.52	1041.45	1022.49	1026.24	1027.18	
G4	1010.85	1024.74	1056.15	1056.02	1039.01	1029.56	1005.91	1008.54	1010.85	
G5	990.95	1005.09	1048.83	1047.7	1027.99	1016.11	986.07	987.76	990.95	
G6	968.12	983.45	1036.82	1035.88	1013.48	999.4	964.55	966.3	968.12	
G7	943.46	960.73	1019.11	1019.23	994.83	980.19	940.34	942.65	943.46	
G8	914.37	935.96	996.96	996.58	971.06	956.35	911.68	912.18	914.37	
G9	883.65	906.42	973.06	969.43	946.41	928.82	880.08	879.96	883.65	
G10	851.8	876.02	947.78	943.09	918.56	899.17	847.36	847.55	851.8	
G11	818.08	843.73	917.0	912.18	886.72	868.38	812.01	812.01	818.08	
G12	780.66	806.25	881.4	876.64	852.18	833.59	775.47	772.9	780.66	
G13	741.12	764.83	843.17	835.53	816.33	797.56	735.99	733.42	741.12	
G14	700.58	723.54	802.12	794.43	778.41	762.2	695.76	694.51	700.58	
G15	659.15	681.87	757.64	752.57	737.8	725.29	654.71	652.77	659.15	
G16	616.86	637.51	710.96	707.33	695.26	683.93	611.92	607.79	616.86	
G17	574.25	591.58	664.72	658.78	652.02	642.82	567.62	563.99	574.25	
G18	532.08	547.97	616.86	612.17	607.85	603.09	524.2	523.26	532.08	
G19	489.97	504.42	568.49	566.05	562.24	561.55	480.96	481.77	489.97	
G20	447.74	458.19	520.44	518.5	516.56	517.81	438.48	439.35	447.74	
G21	405.63	411.82	472.76	468.76	471.39	475.27	396.62	399.5	405.63	
G22	364.9	369.65	426.78	422.46	426.96	434.72	356.95	362.58	364.9	
G23	326.67	330.3	381.16	378.41	382.92	394.8	319.66	326.54	326.67	
G24	290.69	292.01	337.99	335.24	341.5	352.95	285.37	290.75	290.69	
G25	259.41	258.97	299.26	295.45	303.39	315.41	255.78	260.47	259.41	
G26	231.69	231.38	267.17	264.29	271.23	282.12	229.12	234.94	231.69	
G27	207.04	207.66	238.57	237.01	242.7	253.34	205.91	211.42	207.04	
G28	185.89	186.39	213.42	212.29	217.61	225.56	185.45	190.08	185.89	
G29	167.68	167.56	192.46	189.96	196.34	202.28	168.25	172.31	167.68	
G30	152.42	152.48	174.57	172.19	178.07	183.7	153.35	157.86	152.42	
G31	138.96	139.59	158.49	156.67	161.86	167.12	139.9	144.16	138.96	
G32	127.26	127.7	144.72	142.22	147.47	151.41	128.14	131.71	127.26	
G33	116.81	117.0	132.64	129.33	134.9	137.84	117.63	121.01	116.81	
G34	107.68	107.87	122.38	119.13	123.82	126.33	108.31	111.87	107.68	
G35	99.55	100.11	112.94	109.62	113.69	116.13	99.98	103.3	99.55	
G36	92.41	92.54	104.43	101.05	104.8	106.05	92.54	95.42	92.41	

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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:

Report No.:

Test Time: 2025/12/9 14:36:29

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	85.84	85.72	96.79	93.04	96.98	97.86	85.97	88.72	85.84	
G38	79.84	79.65	89.97	86.22	89.91	90.91	79.9	82.72	79.84	
G39	74.52	74.27	83.53	80.02	83.34	84.47	74.21	76.83	74.52	
G40	69.39	69.01	77.71	74.02	77.33	78.15	69.01	71.2	69.39	
G41	64.45	63.63	72.2	68.39	72.27	72.64	63.88	66.32	64.45	
G42	60.13	59.19	67.01	63.19	67.01	67.76	59.63	61.75	60.13	
G43	56.0	55.12	61.94	58.94	62.32	62.76	55.56	57.69	56.0	
G44	52.18	51.18	57.44	54.5	57.56	58.19	51.81	53.68	52.18	
G45	48.62	47.3	53.31	50.12	53.56	54.31	48.24	49.93	48.62	
G46	45.36	44.11	49.93	46.49	50.05	50.49	45.05	46.8	45.36	
G47	42.67	41.23	46.49	43.48	46.61	47.36	42.17	43.99	42.67	
G48	39.92	38.54	43.3	40.54	43.55	43.92	39.42	41.04	39.92	
G49	37.29	35.91	40.48	37.73	40.61	41.04	36.85	38.48	37.29	
G50	35.23	33.79	38.04	35.29	37.98	38.23	34.54	36.35	35.23	
G51	33.29	31.66	35.66	33.1	35.48	36.04	32.66	34.29	33.29	
G52	31.41	29.72	33.47	30.91	33.29	33.79	30.47	32.35	31.41	
G53	29.53	28.09	31.35	28.84	31.28	31.78	28.72	30.28	29.53	
G54	27.84	26.15	29.53	27.15	29.47	30.16	27.15	29.03	27.84	
G55	26.28	24.78	27.78	25.65	27.78	28.28	25.72	27.4	26.28	
G56	24.78	23.21	26.09	24.15	26.09	26.59	24.03	25.84	24.78	
G57	23.15	21.46	24.59	22.52	24.46	25.09	22.34	24.03	23.15	
G58	21.71	20.27	23.03	20.84	22.84	23.4	20.9	22.65	21.71	
G59	20.21	19.02	21.65	19.71	21.27	21.59	19.58	21.21	20.21	
G60	18.9	17.64	20.27	18.4	19.52	20.33	18.27	19.9	18.9	
G61	17.33	16.52	18.9	16.96	17.77	19.08	16.96	18.71	17.33	
G62	15.83	15.08	17.58	15.64	16.14	17.77	15.77	17.39	15.83	
G63	14.39	14.08	16.21	14.58	14.7	16.46	14.64	16.08	14.39	
G64	12.95	13.01	15.02	13.45	13.33	15.27	13.58	14.83	12.95	
G65	11.64	12.01	13.89	12.33	11.83	14.33	12.45	13.76	11.64	
G66	10.26	11.01	12.83	11.01	10.45	13.14	11.45	12.76	10.26	
G67	8.82	9.89	11.7	10.14	9.07	12.14	10.45	11.83	8.82	
G68	7.38	8.88	10.64	9.01	7.57	11.07	9.39	10.76	7.38	
G69	5.88	7.76	9.64	7.82	6.26	10.07	8.7	9.82	5.88	
G70	4.76	6.69	8.38	6.82	5.13	8.82	7.51	8.76	4.76	
G71	3.82	5.69	7.7	5.76	4.13	8.01	6.63	7.7	3.82	
G72	2.88	4.32	6.63	4.63	3.19	6.82	5.57	6.51	2.88	
G73	2.0	3.25	5.57	3.57	2.32	5.82	4.82	5.44	2.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/12/9 14:36:29

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2025/12/9 14:36:29

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 14:36:29

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks: