

Report No.:

Test Time: 2024/6/13 8:46:51

LUMINAIRE PHOTOMETRIC TEST REPORT

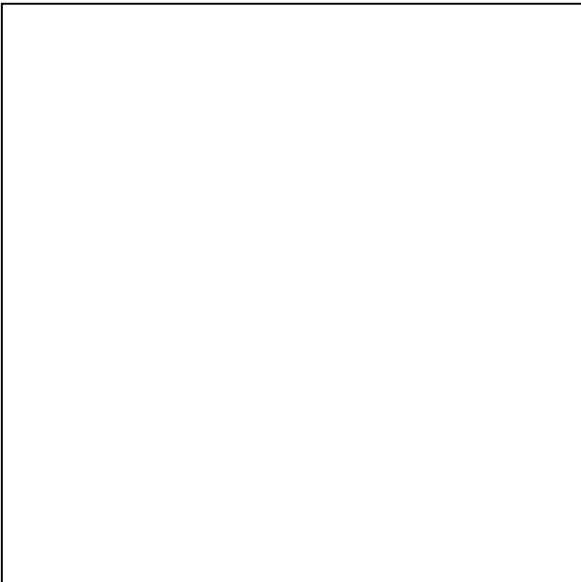
Luminaire Property

Manufacturer: 0	Voltage(V): 219.30 V
Luminaire Type: MB21-BL12A	Current(A): 0.1620 A
Lamp Type:	Power(W): 20.06 W
Luminous Width: 0 mm	Power Factor: 0.5630
Luminous Length: 0 mm	Lamp Luminous Flux: 912.86
Luminous Height: 0 mm	

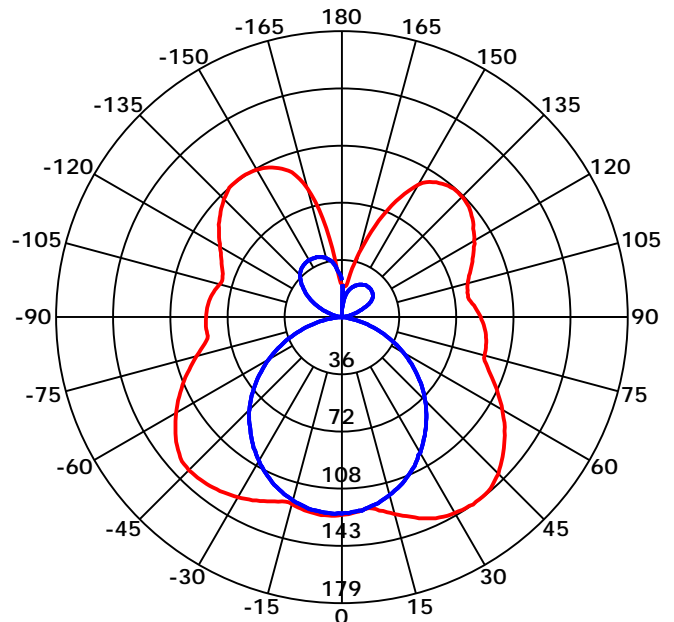
Photometric Results

CIE Class: Direct	Max. Intensity: 143.36 cd
Luminaire Luminous Flux: 912.8608 lm	Max. Intensity Angle: C=0 Gamma=35
Downward Ratio: 59.93%	Upward Ratio: 40.07%
Luminaire Efficacy Rating(LER): 45.51 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 324.7,107.2	Center Intensity: 123.95 cd
Field Angle(10%) C0-180,C90-270: 0.0,290.0	Effective Luminous Flux: 912.58 lm
S/MH C0-180,C90-270: 1.678,1.202	ERP(φ use)(120deg): 348.31 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 324.7 deg,107.2 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

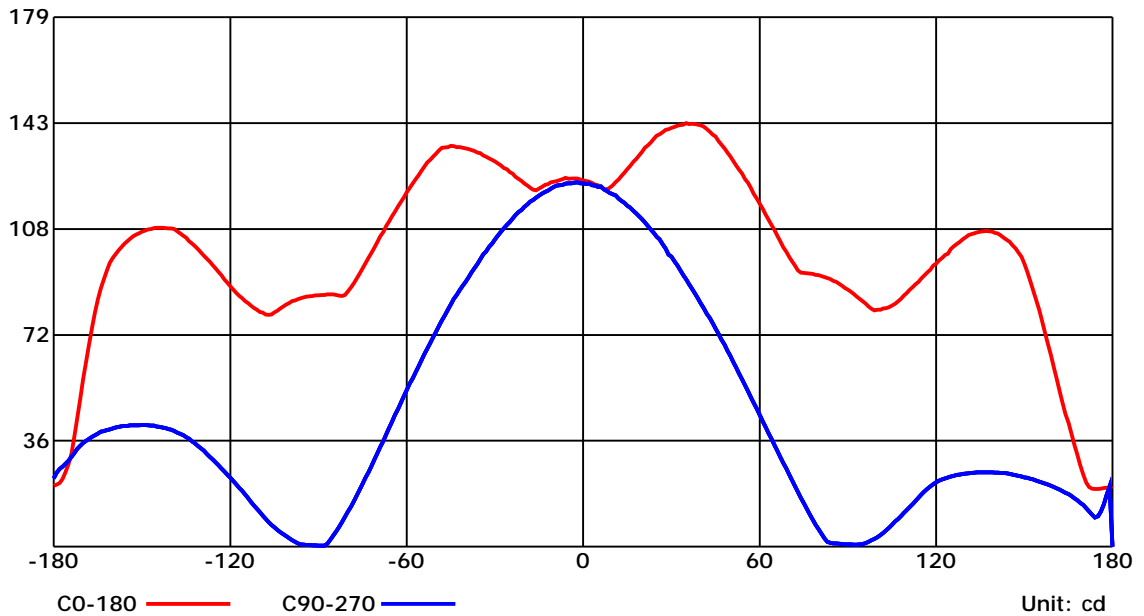
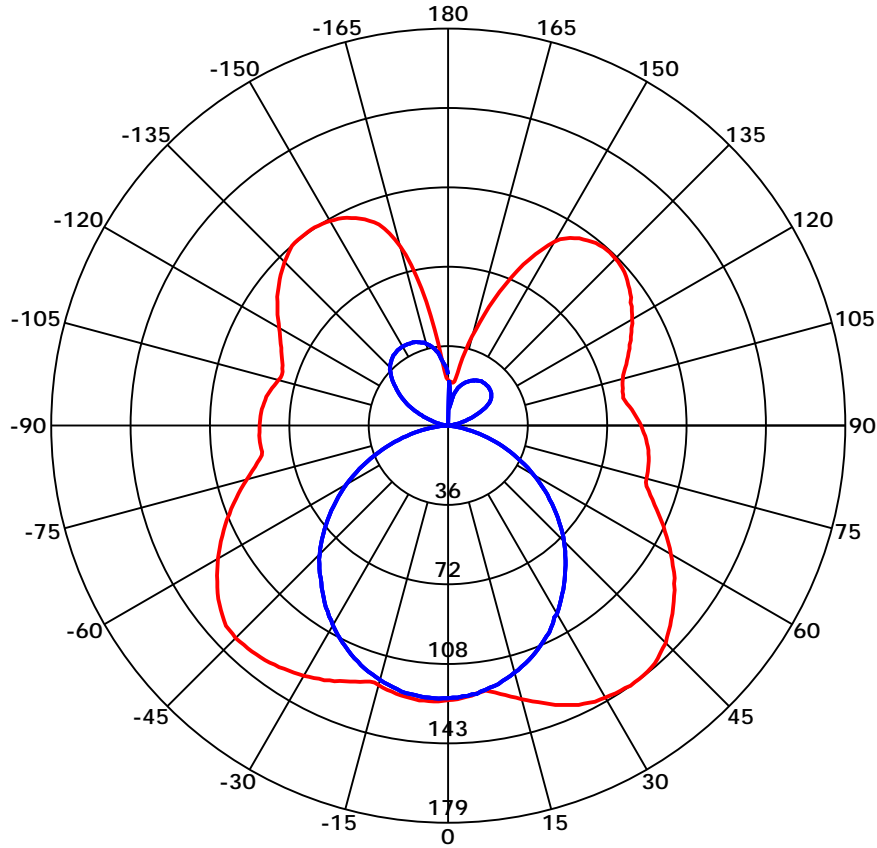
Test Distance: 6.25 m

Remarks:

Report No.:

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Luminous Intensity Distribution Curve



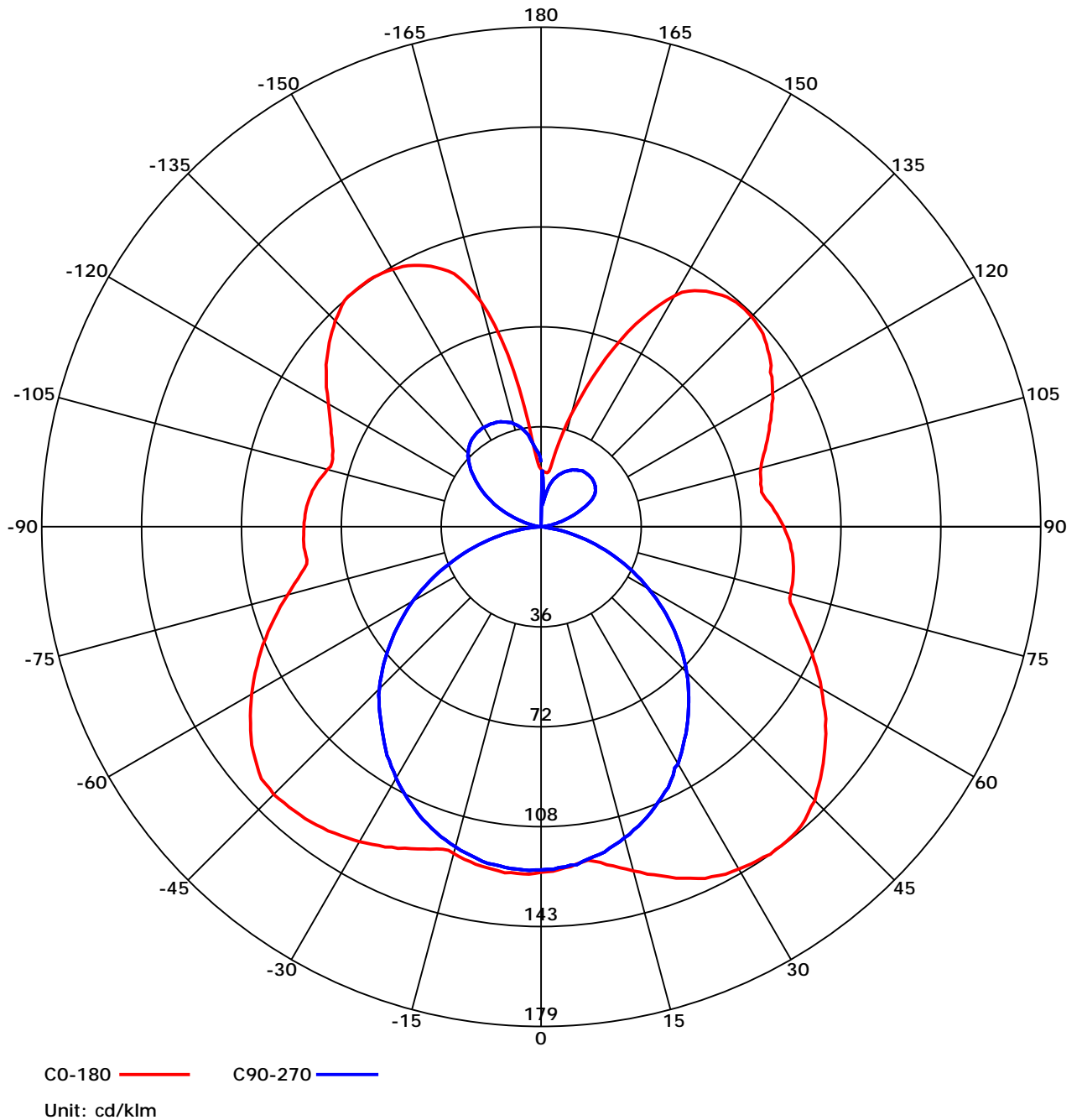
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity:
Test Distance: 6.25 m
Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

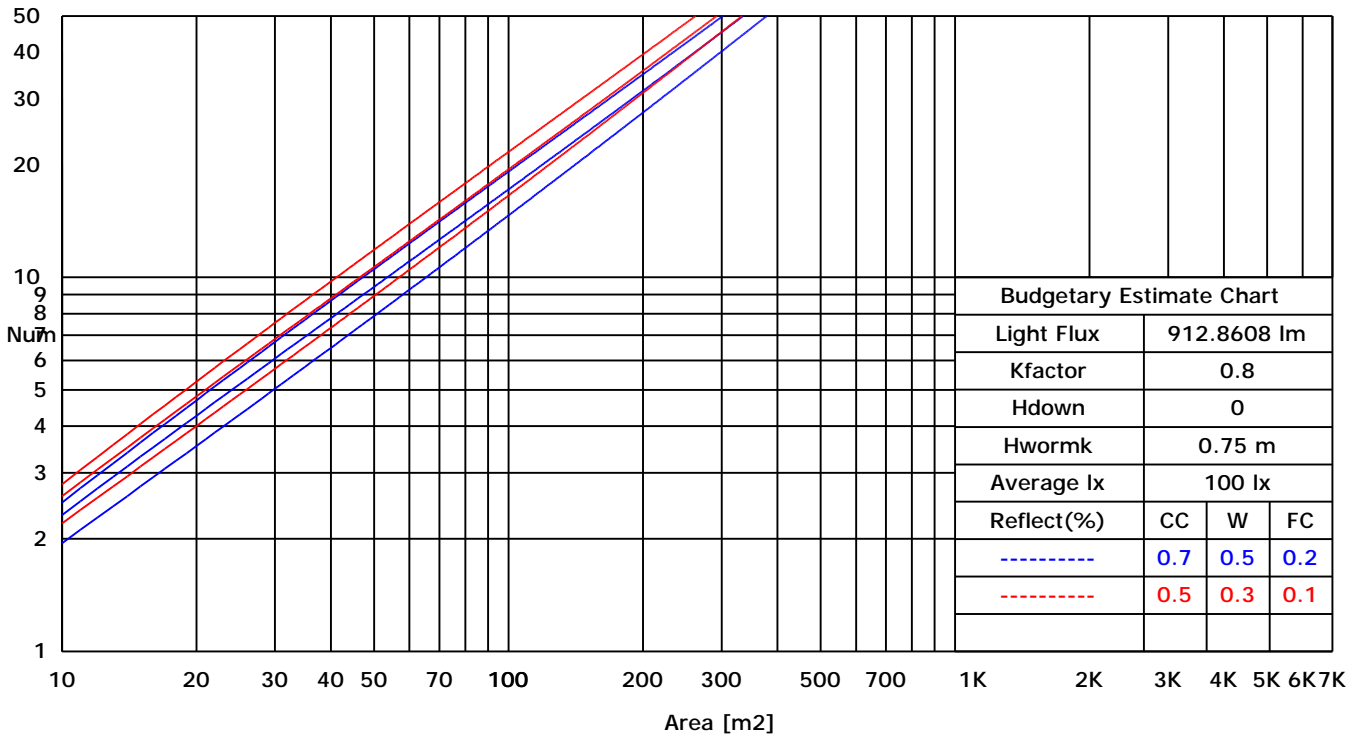
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UTILIZATION FACTORS TABLE

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	COEFFICIENTS 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	1.05	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.85	0.80
2	0.94	0.92	0.91	0.93	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.71
3	0.86	0.84	0.82	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.80	0.78	0.76	0.80	0.77	0.75	0.78	0.74	0.72	0.76	0.71	0.68	0.72	0.68	0.64	0.60
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	0.72	0.70	0.68	0.71	0.69	0.67	0.70	0.67	0.64	0.69	0.64	0.61	0.66	0.61	0.57	0.54
7	0.69	0.67	0.66	0.68	0.66	0.64	0.67	0.64	0.61	0.66	0.62	0.58	0.64	0.59	0.55	0.52
8	0.66	0.65	0.64	0.66	0.64	0.62	0.65	0.62	0.59	0.64	0.59	0.56	0.62	0.57	0.53	0.50
9	0.64	0.63	0.62	0.64	0.62	0.60	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.55	0.52	0.48
10	0.63	0.61	0.60	0.62	0.60	0.59	0.62	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.50	0.47

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



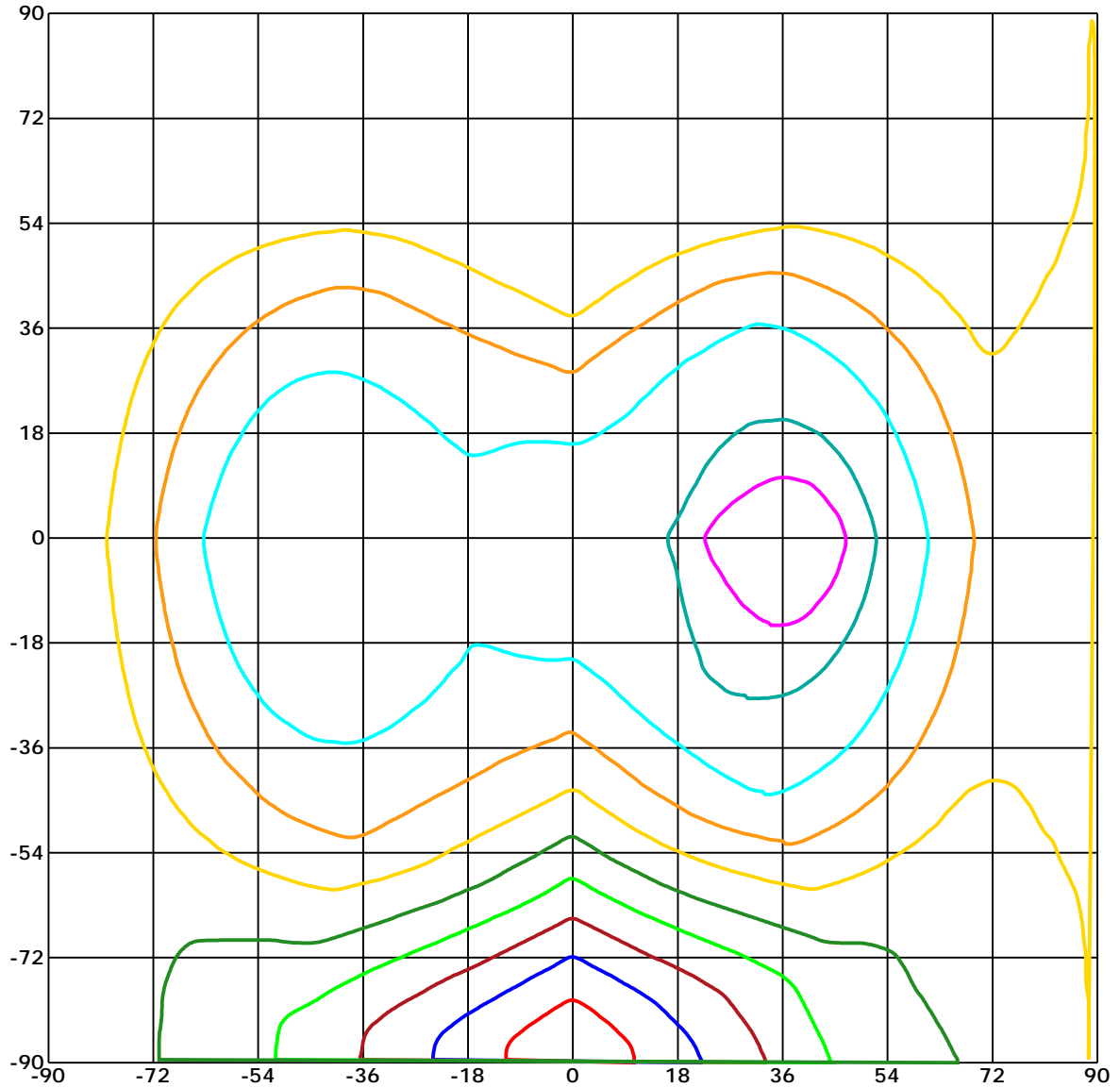
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd $I_{max}(100\%): 143.359 \text{ cd}$

- | | |
|--------------------|-------------------|
| — 136.191(95%Imax) | — 71.68(50%Imax) |
| — 129.023(90%Imax) | — 57.344(40%Imax) |
| — 114.688(80%Imax) | — 43.008(30%Imax) |
| — 100.352(70%Imax) | — 28.672(20%Imax) |
| — 86.016(60%Imax) | — 14.336(10%Imax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

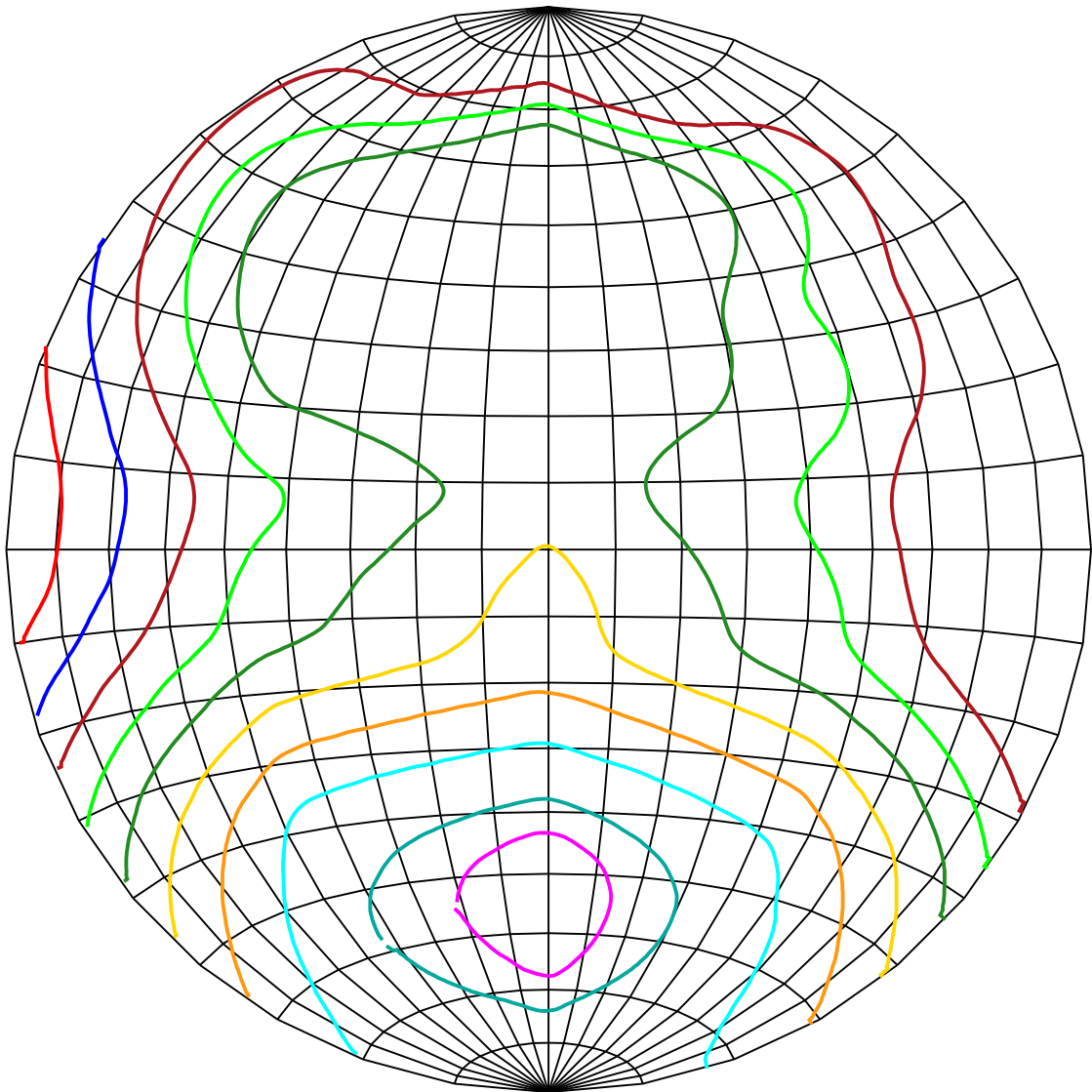
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 143.359 cd

- | | |
|---------------------------------|--------------------------------|
| — 136.191(95%I _{max}) | — 71.68(50%I _{max}) |
| — 129.023(90%I _{max}) | — 57.344(40%I _{max}) |
| — 114.688(80%I _{max}) | — 43.008(30%I _{max}) |
| — 100.352(70%I _{max}) | — 28.672(20%I _{max}) |
| — 86.016(60%I _{max}) | — 14.336(10%I _{max}) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

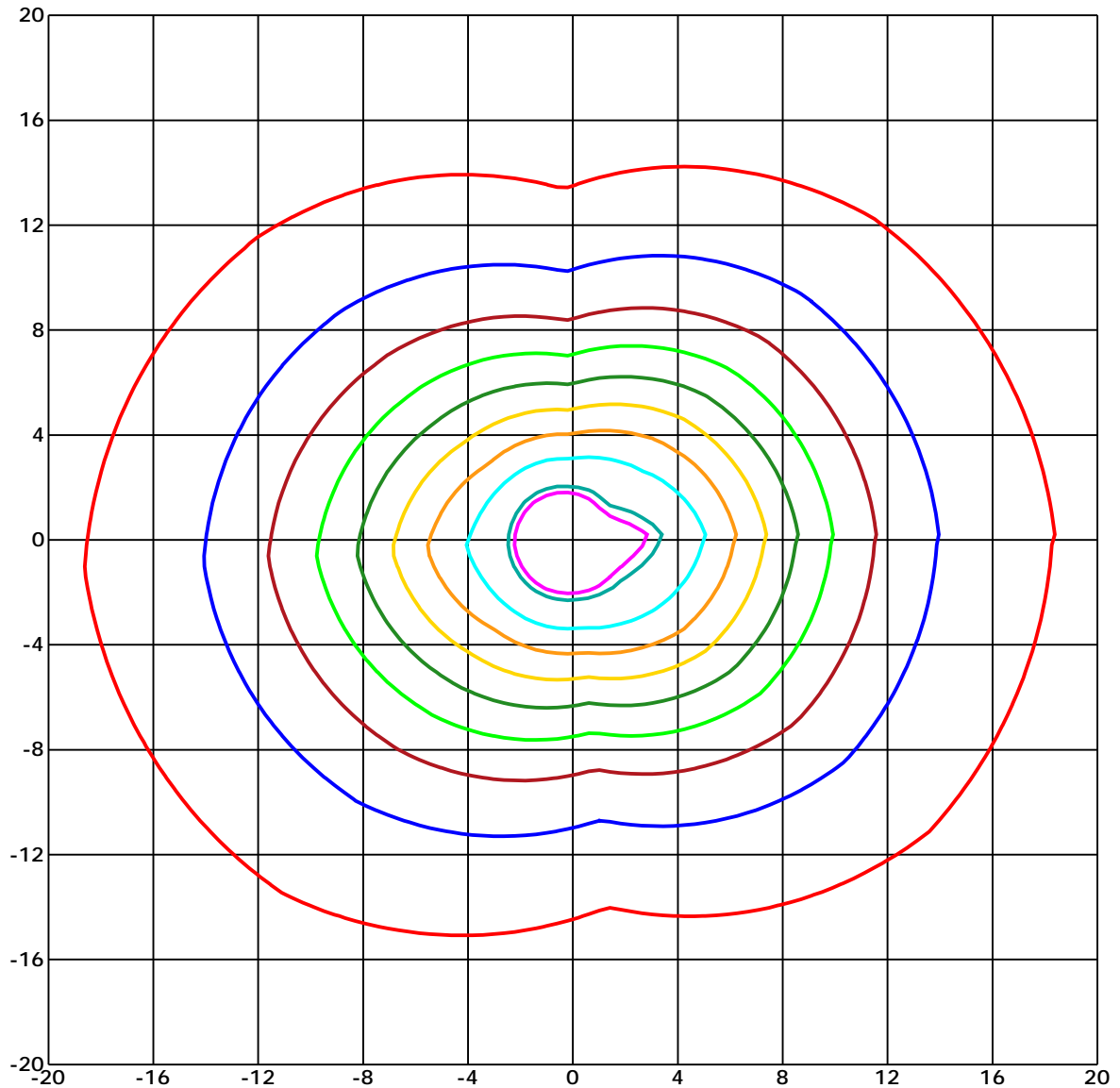
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

ISOLX DIAGRAM



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

- | | |
|------------------|------------------|
| — 1.144(92%Emax) | — 0.622(50%Emax) |
| — 1.119(90%Emax) | — 0.498(40%Emax) |
| — 0.995(80%Emax) | — 0.373(30%Emax) |
| — 0.871(70%Emax) | — 0.249(20%Emax) |
| — 0.746(60%Emax) | — 0.124(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

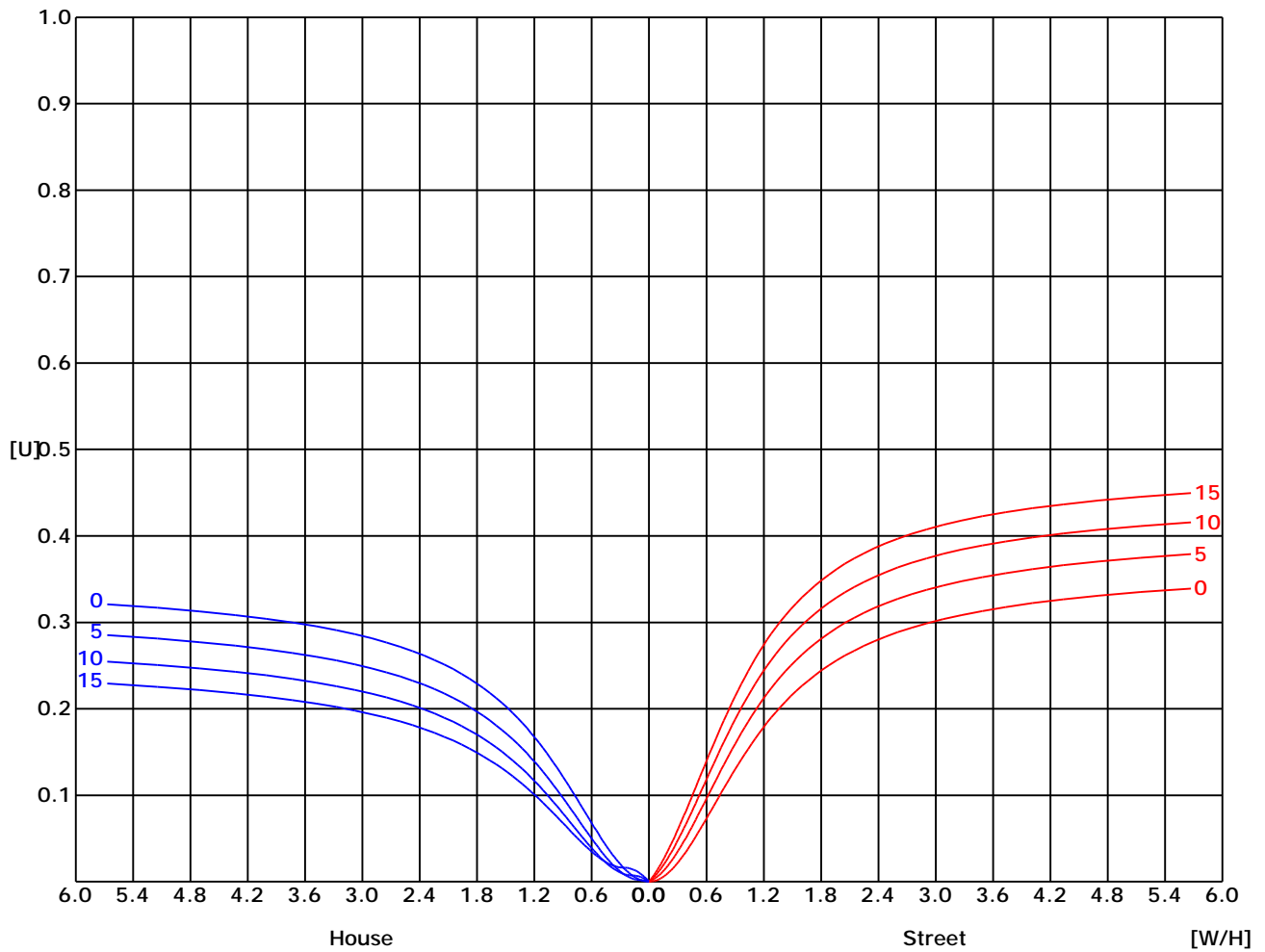
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 8:46:51

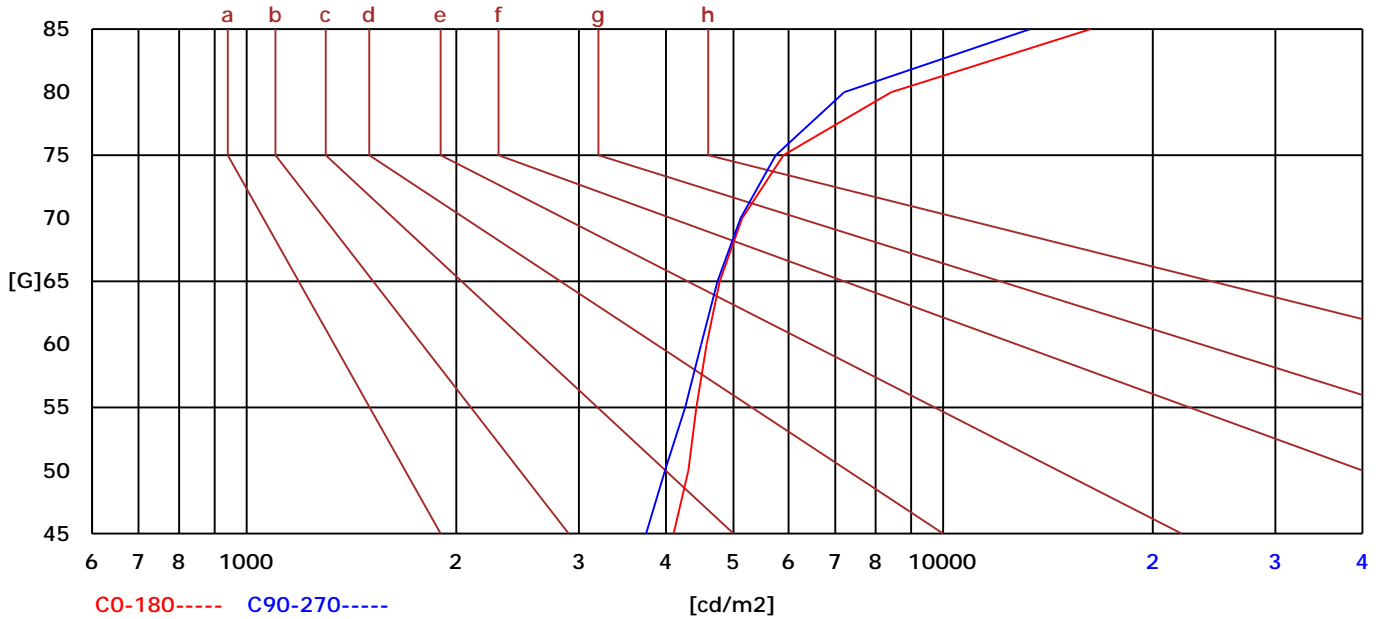
G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4105	4306	4422	4578	4781	5148	5901	8430	16281
C90	3748	3988	4262	4494	4744	5117	5750	7210	13334
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



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

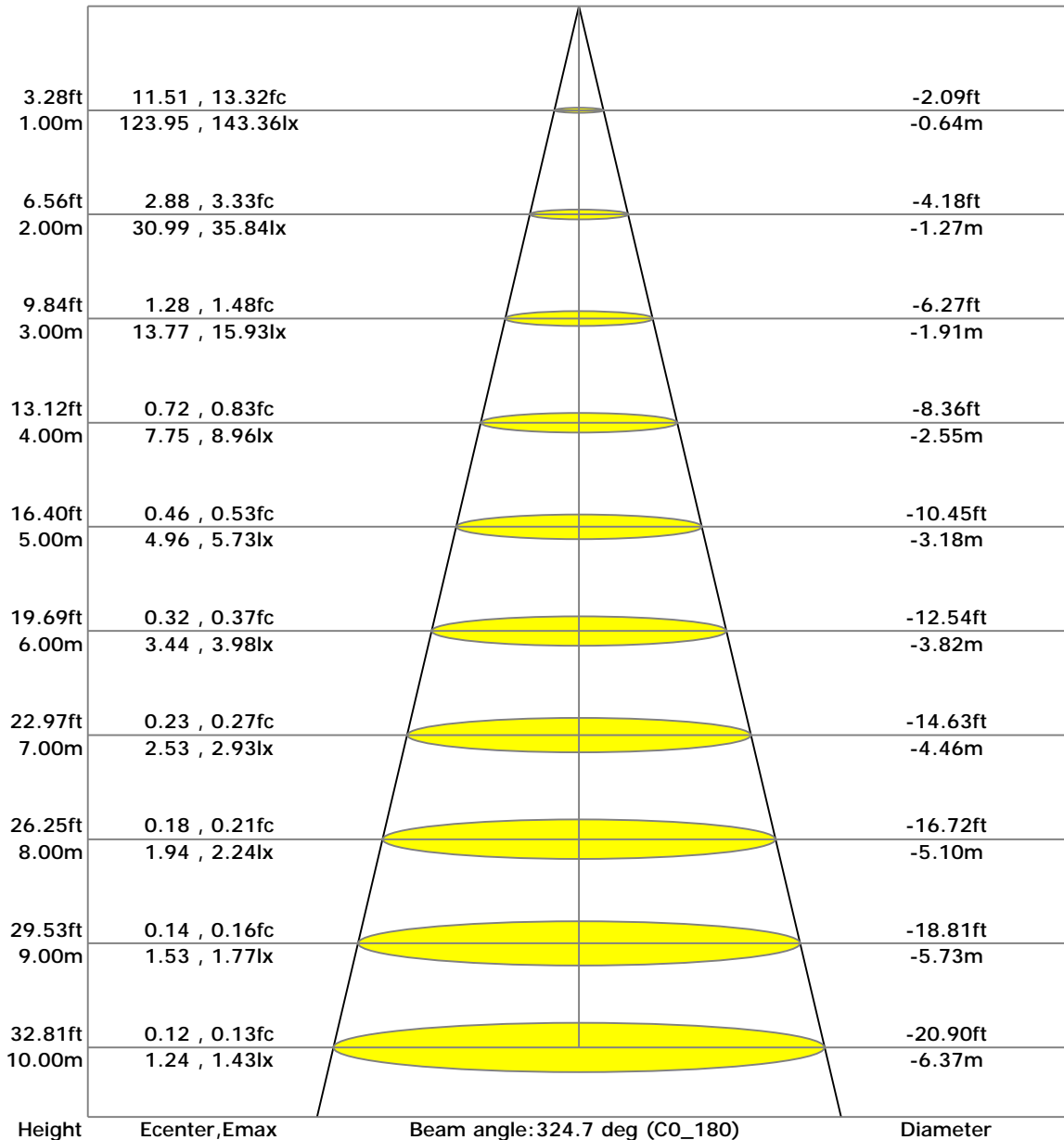
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LX-DISTANCE DIAGRAM



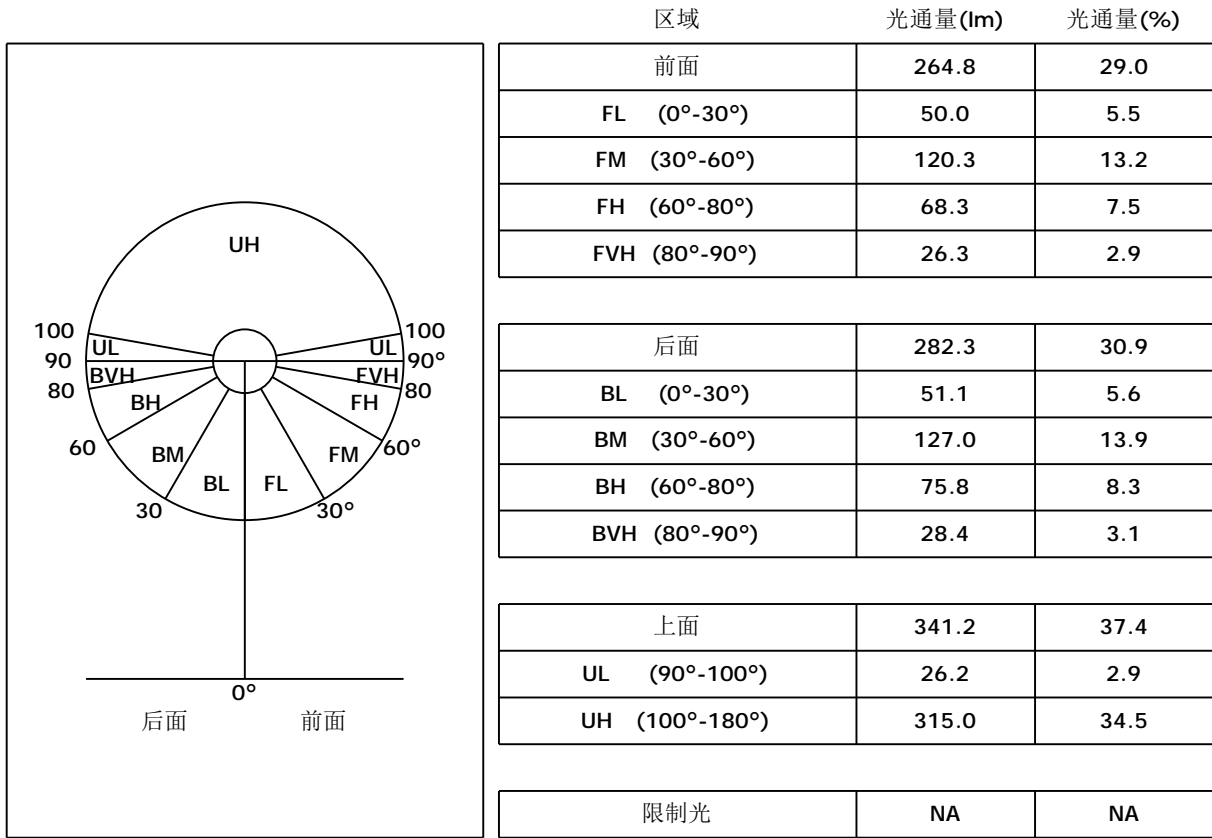
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

BUG等级评价表



BUG评价等级(基于TM-15-07)	
非对称灯具 (Type I , II , III , IV)	B0 U3 G1
对称灯具 (Type V , Area Light)	B0 U3 G1

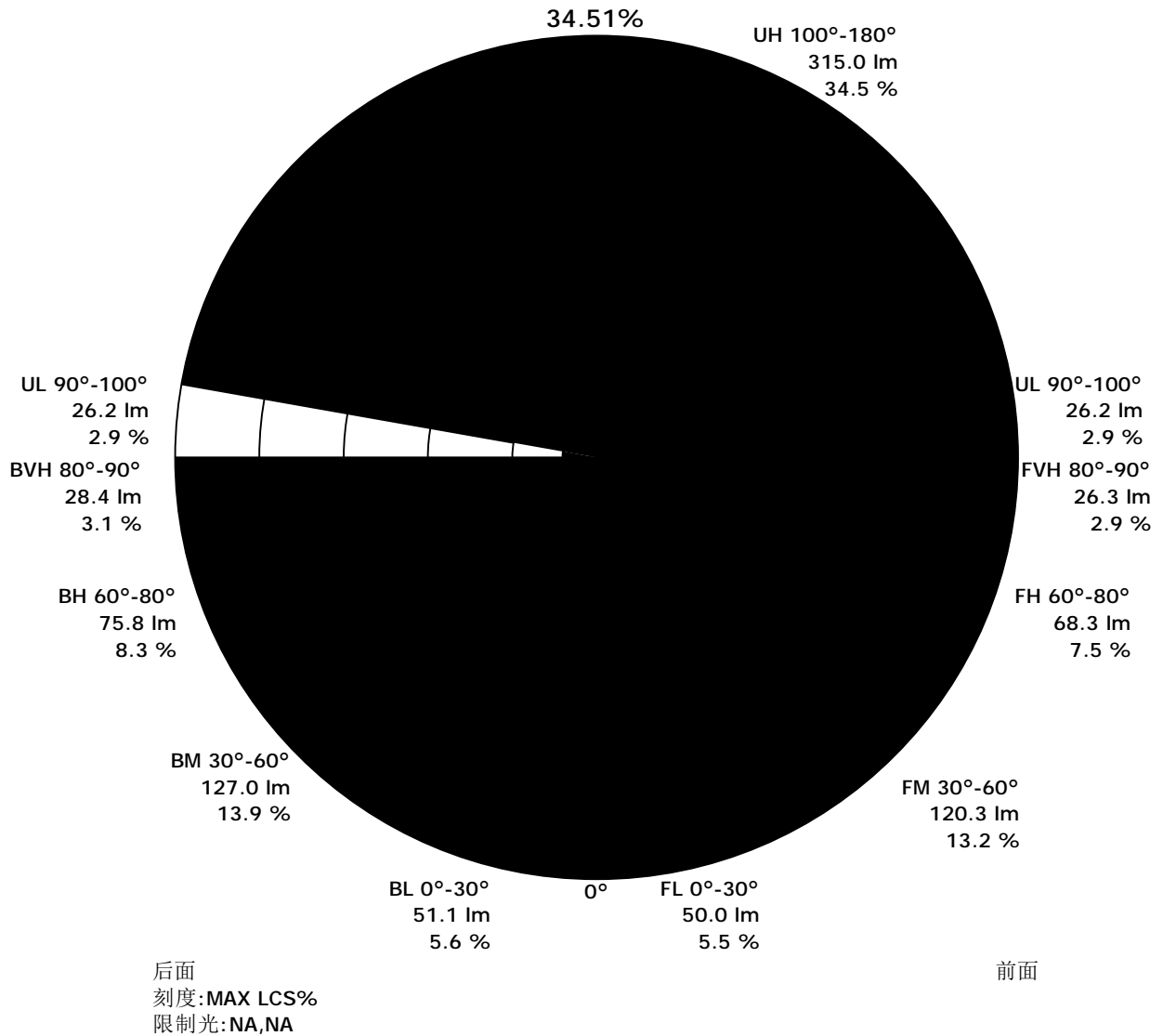
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LCS 图



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature:
 Operators:
 Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

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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	17.04	17.40	17.18	17.74	18.15	15.24	15.60	15.38	15.94	16.35
	3H	17.03	17.40	17.17	17.73	18.14	15.57	15.93	15.71	16.27	16.68
	4H	16.96	17.33	17.11	17.66	18.07	15.66	16.02	15.81	16.35	16.77
	6H	16.86	17.22	17.02	17.55	17.98	15.66	16.03	15.82	16.36	16.78
	8H	16.80	17.16	16.96	17.49	17.92	15.60	15.96	15.77	16.29	16.72
	12H	16.73	17.09	16.90	17.42	17.85	15.54	15.89	15.71	16.22	16.66
4H	2H	21.35	21.72	21.50	22.05	22.46	17.44	17.80	17.58	18.13	18.55
	3H	21.53	21.89	21.71	22.22	22.66	18.15	18.51	18.33	18.84	19.28
	4H	21.54	21.88	21.73	22.22	22.67	18.48	18.83	18.68	19.17	19.62
	6H	21.46	21.79	21.68	22.13	22.60	18.77	19.11	18.99	19.45	19.92
	8H	21.40	21.72	21.63	22.06	22.55	18.88	19.20	19.11	19.55	20.03
	12H	21.32	21.62	21.57	21.98	22.47	18.90	19.21	19.15	19.56	20.05
8H	4H	24.16	24.52	24.33	24.85	25.28	17.90	18.26	18.06	18.59	19.02
	6H	24.97	25.26	25.23	25.62	26.13	20.42	20.71	20.69	21.07	21.58
	8H	24.98	25.25	25.26	25.61	26.14	20.85	21.12	21.13	21.48	22.01
	12H	24.94	25.18	25.25	25.56	26.10	21.23	21.47	21.54	21.85	22.39
12H	4H	26.24	26.55	26.49	26.90	27.39	19.85	20.16	20.10	20.51	21.01
	6H	26.53	26.80	26.81	27.16	27.69	20.89	21.16	21.18	21.53	22.05

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

ZONAL LUMINOUS FLUX TABLE-1

Gamma [deg]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	123.36	0.00	0.00	0.00	0.00
5	123.03	2.94	2.94	0.32	0.32
10	121.44	8.72	11.66	0.96	1.28
15	120.65	14.33	26.00	1.57	2.85
20	120.08	19.81	45.80	2.17	5.02
25	119.50	25.09	70.89	2.75	7.77
30	118.95	30.16	101.05	3.30	11.07
35	117.67	34.79	135.84	3.81	14.88
40	115.26	38.74	174.58	4.24	19.12
45	111.92	41.84	216.42	4.58	23.71
50	106.95	43.86	260.28	4.80	28.51
55	100.11	44.44	304.72	4.87	33.38
60	91.77	43.59	348.31	4.78	38.16
65	82.21	41.36	389.67	4.53	42.69
70	72.19	38.05	427.72	4.17	46.86
75	62.47	34.15	461.87	3.74	50.60
80	54.99	30.55	492.42	3.35	53.94
85	50.46	28.01	520.43	3.07	57.01
90	48.16	26.69	547.12	2.92	59.93
95	46.58	25.76	572.88	2.82	62.76
100	45.88	24.98	597.86	2.74	65.49
105	47.58	25.14	623.00	2.75	68.25
110	51.74	26.30	649.30	2.88	71.13
115	56.98	28.07	677.37	3.07	74.20
120	61.71	29.32	706.69	3.21	77.41
125	65.42	29.75	736.44	3.26	80.67
130	69.32	29.62	766.06	3.25	83.92
135	72.71	28.98	795.04	3.17	87.09
140	74.84	27.50	822.54	3.01	90.11
145	74.04	24.86	847.40	2.72	92.83
150	71.03	21.24	868.63	2.33	95.16
155	64.51	16.89	885.53	1.85	97.01
160	55.30	12.23	897.76	1.34	98.35
165	45.49	8.02	905.78	0.88	99.22
170	34.82	4.57	910.34	0.50	99.72
175	24.35	2.00	912.34	0.22	99.94
180	20.30	0.52	912.86	0.06	100.00

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
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G Range: 0 - 180 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity:
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	122.2	117.4	119.3	122.2	123.6	122.7	121.8	120.5	10	11.7	11.7	1.3	1.3
20	133.6	120.0	110.8	115.0	122.9	117.7	115.1	124.4	20	34.1	45.8	5.0	5.0
30	141.8	122.6	98.2	111.1	130.4	114.7	104.0	127.7	30	55.3	101.1	11.1	11.1
40	142.6	119.6	82.3	108.5	134.8	113.8	89.6	126.6	40	73.5	174.6	19.1	19.1
50	132.1	110.7	64.6	102.5	133.1	110.2	72.9	120.1	50	85.7	260.3	28.5	28.5
60	116.1	91.6	44.5	89.9	120.0	101.5	53.0	103.1	60	88.0	348.3	38.2	38.2
70	98.1	70.4	24.5	70.0	103.0	81.9	31.6	81.8	70	79.4	427.7	46.9	46.9
80	91.9	58.6	5.9	50.1	86.3	61.6	11.8	64.0	80	64.7	492.4	53.9	53.9
90	87.0	54.5	0.8	44.3	85.1	52.8	0.4	57.8	90	54.7	547.1	59.9	59.9
100	80.2	53.9	3.2	39.2	82.5	51.1	2.9	55.6	100	50.7	597.9	65.5	65.5
110	85.9	61.4	12.3	45.8	79.5	56.1	11.7	69.4	110	51.4	649.3	71.1	71.1
120	95.8	60.6	21.8	55.4	88.2	72.5	23.3	82.3	120	57.4	706.7	77.4	77.4
130	104.7	60.6	24.8	60.6	99.6	87.4	33.2	89.5	130	59.4	766.1	83.9	83.9
140	106.3	67.8	25.1	72.3	107.8	92.4	39.5	88.6	140	56.5	822.5	90.1	90.1
150	95.7	54.4	23.5	81.4	106.6	90.9	41.2	66.1	150	46.1	868.6	95.2	95.2
160	60.6	20.9	20.2	69.2	97.6	78.1	40.0	40.2	160	29.1	897.8	98.3	98.3
170	24.3	10.5	14.1	41.8	56.8	50.0	35.1	28.1	170	12.6	910.3	99.7	99.7
180	20.4	0.0	0.0	0.0	20.6	24.0	23.1	20.0	180	2.5	912.9	100.0	100.0

Conical surface Flux(90deg) : 216.4 lm

%lum = 23.7%

%lamp = 23.7%

Conical surface Flux(120deg) : 348.3 lm

%lum = 38.2%

%lamp = 38.2%

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

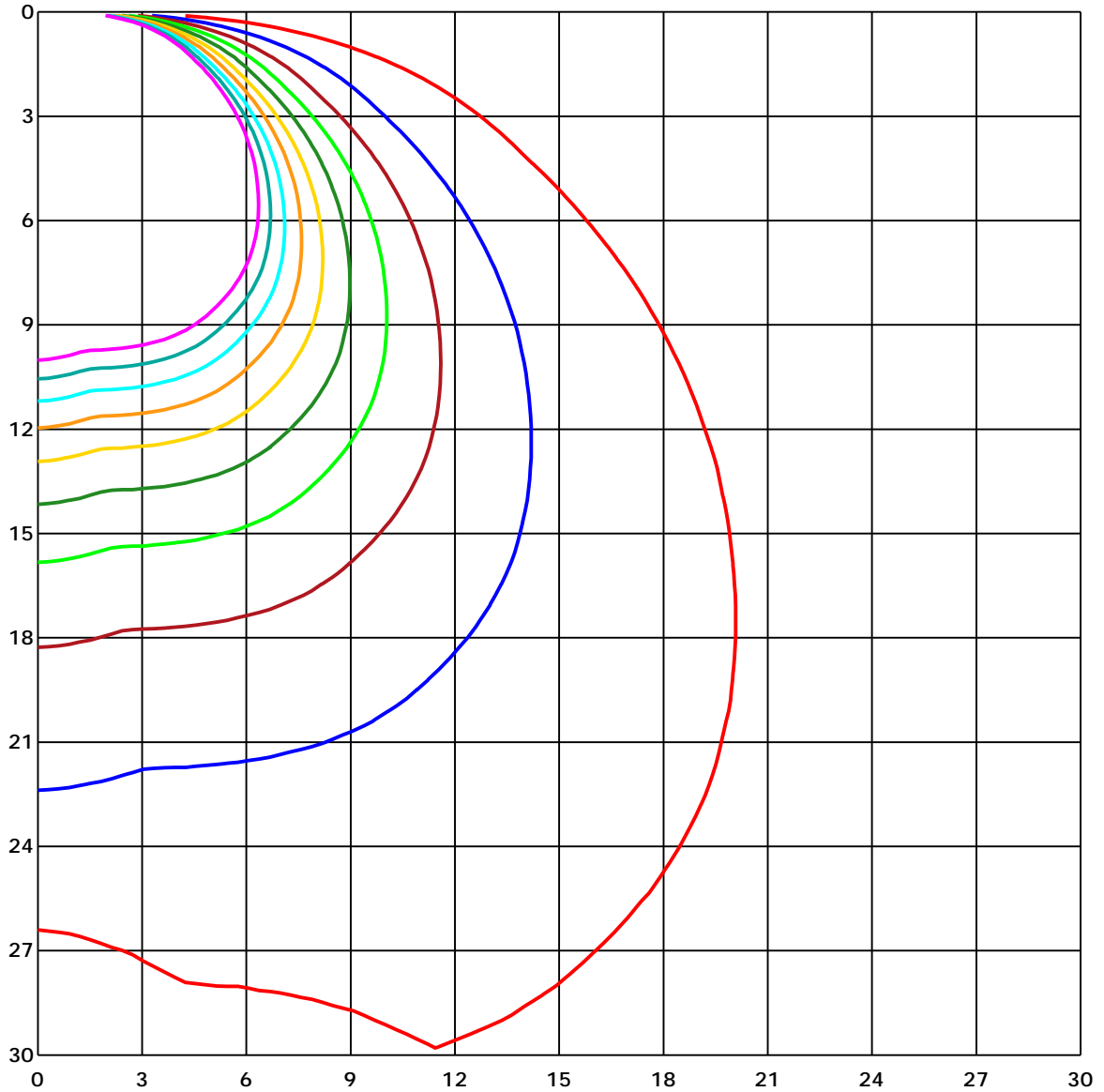
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 1.237 | — 0.619 |
| — 1.113 | — 0.495 |
| — 0.99 | — 0.371 |
| — 0.866 | — 0.247 |
| — 0.742 | — 0.124 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	123.95	122.5	123.05	123.95	123.95	122.5	123.05	123.95	123.95
G1	123.75	122.58	122.81	123.83	124.26	122.77	123.01	123.75	123.75
G2	123.55	121.95	122.89	123.95	124.61	123.16	123.32	123.59	123.55
G3	123.09	121.52	122.34	124.02	124.65	123.09	123.2	123.24	123.09
G4	122.58	121.05	122.27	124.1	124.61	123.28	123.05	123.28	122.58
G5	122.38	120.35	121.8	123.59	124.49	123.44	123.01	122.77	122.38
G6	121.6	119.96	121.88	123.48	124.8	123.32	122.85	122.38	121.6
G7	121.17	119.38	120.94	123.28	124.38	123.16	122.46	121.99	121.17
G8	120.78	118.59	120.39	122.85	124.06	123.05	122.34	121.6	120.78
G9	121.45	117.89	119.77	122.5	123.79	122.97	122.23	120.9	121.45
G10	122.23	117.38	119.34	122.23	123.59	122.73	121.84	120.51	122.23
G11	123.48	117.42	118.87	121.56	123.32	122.34	121.13	120.55	123.48
G12	124.26	117.42	117.77	121.29	122.7	122.11	120.55	120.86	124.26
G13	125.47	117.85	117.03	120.66	122.42	121.6	120.04	121.05	125.47
G14	126.52	118.16	116.41	119.84	121.84	121.37	119.57	121.52	126.52
G15	127.77	118.4	115.43	119.1	121.29	120.86	118.83	121.91	127.77
G16	128.83	118.67	114.73	118.32	120.66	120.23	118.13	122.38	128.83
G17	130.23	119.22	113.63	117.77	120.86	119.49	117.38	122.89	130.23
G18	131.21	119.45	112.85	116.88	121.48	118.95	116.8	123.36	131.21
G19	132.38	119.92	111.84	116.02	122.27	118.44	115.86	123.95	132.38
G20	133.63	119.96	110.82	115.04	122.89	117.7	115.08	124.41	133.63
G21	135.0	120.66	109.73	114.18	123.71	116.56	114.02	124.84	135.0
G22	135.94	120.86	108.52	113.13	124.49	115.82	113.24	125.27	135.94
G23	136.91	120.98	107.27	112.15	125.16	115.04	112.23	125.59	136.91
G24	138.05	121.37	106.17	111.8	126.29	114.84	111.09	126.37	138.05
G25	139.14	121.52	104.92	111.91	126.76	114.53	109.92	126.33	139.14
G26	139.57	122.19	103.98	111.68	127.81	114.69	108.91	126.76	139.57
G27	140.31	122.07	102.27	111.56	128.24	114.73	107.73	126.95	140.31
G28	141.09	122.19	100.9	111.33	129.02	114.84	106.56	127.42	141.09
G29	141.33	122.73	98.87	111.09	129.69	114.96	105.35	127.58	141.33
G30	141.76	122.58	98.2	111.13	130.35	114.73	104.02	127.73	141.76
G31	142.03	122.58	96.64	110.9	130.9	114.73	102.62	128.36	142.03
G32	142.46	122.58	95.12	110.82	131.41	114.8	101.41	128.28	142.46
G33	142.7	122.54	93.52	110.51	131.95	114.77	99.96	128.24	142.7
G34	142.77	122.15	91.95	110.2	132.46	114.73	98.91	128.2	142.77
G35	143.36	122.15	90.51	110.23	133.16	114.53	97.3	128.01	143.36
G36	143.09	122.07	88.91	109.77	133.4	114.65	95.74	127.93	143.09

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	143.2	121.21	87.34	109.65	133.91	114.49	94.14	127.77	143.2	
G38	143.05	120.63	85.63	109.06	134.3	114.18	92.73	127.42	143.05	
G39	142.81	120.12	83.98	108.79	134.61	113.87	91.09	126.84	142.81	
G40	142.58	119.57	82.3	108.48	134.77	113.83	89.65	126.6	142.58	
G41	142.15	119.26	80.7	107.97	135.0	113.52	88.32	126.05	142.15	
G42	141.41	118.28	78.95	107.77	135.27	113.2	86.91	125.47	141.41	
G43	140.39	117.77	77.38	106.95	135.27	113.2	85.23	125.04	140.39	
G44	139.45	116.99	75.63	106.48	135.55	112.77	83.91	124.57	139.45	
G45	138.79	116.09	73.79	106.02	135.66	112.34	82.07	123.98	138.79	
G46	137.34	115.16	72.11	105.51	135.27	111.95	80.35	123.2	137.34	
G47	136.09	114.57	70.16	104.69	135.16	111.52	78.48	122.58	136.09	
G48	134.84	113.24	68.36	104.18	135.08	111.05	76.68	121.68	134.84	
G49	133.4	112.3	66.37	103.36	134.14	110.55	74.8	120.7	133.4	
G50	132.07	110.7	64.61	102.54	133.13	110.16	72.85	120.08	132.07	
G51	130.55	108.91	62.58	101.95	132.07	109.34	70.98	119.1	130.55	
G52	129.06	107.11	60.66	100.82	131.02	108.67	69.02	117.46	129.06	
G53	127.62	105.27	58.63	99.88	130.0	108.01	66.99	115.86	127.62	
G54	126.25	103.55	56.6	98.79	128.63	107.54	65.2	114.34	126.25	
G55	124.41	101.45	54.69	97.77	127.23	106.45	63.13	112.62	124.41	
G56	123.24	99.69	52.7	96.8	125.74	105.51	61.05	110.86	123.24	
G57	121.48	97.46	50.63	95.27	124.41	104.77	59.1	108.91	121.48	
G58	119.45	95.51	48.67	93.52	122.97	103.63	57.07	106.91	119.45	
G59	117.85	93.71	46.6	91.8	121.41	102.66	55.16	105.0	117.85	
G60	116.09	91.56	44.53	89.88	119.96	101.48	53.05	103.09	116.09	
G61	114.45	89.41	42.5	88.09	118.28	99.65	50.94	101.05	114.45	
G62	112.46	87.3	40.59	86.13	116.76	97.85	48.83	98.95	112.46	
G63	110.7	85.04	38.44	84.14	115.2	96.05	46.56	96.76	110.7	
G64	108.79	83.13	36.45	82.3	113.36	94.49	44.53	94.65	108.79	
G65	107.15	80.82	34.41	80.2	111.8	92.19	42.3	92.42	107.15	
G66	105.27	78.91	32.38	78.2	110.08	90.04	40.23	90.23	105.27	
G67	103.4	76.68	30.39	76.09	108.55	88.13	38.01	88.05	103.4	
G68	101.48	74.57	28.4	74.18	106.56	86.05	35.82	85.98	101.48	
G69	99.8	72.58	26.48	72.11	104.96	84.06	33.71	83.79	99.8	
G70	98.09	70.43	24.45	70.0	103.05	81.88	31.56	81.8	98.09	
G71	96.52	68.52	22.5	68.01	101.25	79.77	29.53	79.49	96.52	
G72	95.16	66.52	20.47	65.82	99.49	77.7	27.38	77.46	95.16	
G73	93.55	64.45	18.59	63.67	97.81	75.74	25.27	75.35	93.55	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G74	92.73	62.77	16.64	61.56	95.94	73.52	23.28	73.32	92.73	
G75	92.7	61.09	14.61	59.53	94.18	71.56	21.29	71.45	92.7	
G76	92.5	60.0	12.81	57.58	92.42	69.45	19.3	69.49	92.5	
G77	92.46	59.45	10.94	55.47	90.86	67.46	17.34	67.7	92.46	
G78	92.3	59.14	9.22	53.55	89.18	65.47	15.39	66.25	92.3	
G79	92.03	58.75	7.5	51.8	87.73	63.63	13.59	64.84	92.03	
G80	91.88	58.55	5.9	50.08	86.33	61.6	11.84	64.02	91.88	
G81	91.6	58.24	4.34	48.59	85.2	59.84	10.08	63.63	91.6	
G82	91.25	57.85	2.81	47.42	84.88	58.09	8.4	63.13	91.25	
G83	90.98	57.54	1.64	47.07	85.0	56.56	6.76	62.77	90.98	
G84	90.63	57.15	1.29	46.91	85.16	55.23	5.2	62.15	90.63	
G85	90.0	56.76	1.13	46.48	85.39	53.87	3.67	61.45	90.0	
G86	89.61	56.37	1.09	46.02	85.39	53.01	2.3	60.82	89.61	
G87	89.02	55.94	0.98	45.51	85.43	52.97	1.05	60.12	89.02	
G88	88.28	55.51	0.9	45.2	85.2	53.01	0.39	59.26	88.28	
G89	87.58	55.16	0.82	44.73	85.2	52.77	0.39	58.63	87.58	
G90	87.03	54.53	0.78	44.3	85.12	52.81	0.39	57.81	87.03	
G91	86.29	54.06	0.78	43.83	85.08	52.54	0.47	57.03	86.29	
G92	85.47	53.67	0.7	43.36	84.88	52.54	0.51	56.37	85.47	
G93	84.69	53.16	0.66	42.89	84.8	52.42	0.55	55.7	84.69	
G94	83.87	52.7	0.76	42.42	84.61	52.42	0.63	55.23	83.87	
G95	83.16	52.5	0.86	41.88	84.45	52.15	0.7	54.77	83.16	
G96	82.23	52.54	1.21	41.45	84.06	51.99	0.78	54.22	82.23	
G97	81.29	52.81	1.64	40.78	83.79	51.88	1.09	53.91	81.29	
G98	80.55	53.16	2.15	40.2	83.36	51.64	1.6	54.06	80.55	
G99	80.0	53.52	2.58	39.61	83.09	51.37	2.19	54.69	80.0	
G100	80.2	53.91	3.2	39.22	82.46	51.13	2.85	55.59	80.2	
G101	80.2	54.3	3.95	38.95	81.95	50.78	3.55	57.03	80.2	
G102	80.62	54.65	4.69	39.14	81.33	50.43	4.22	58.48	80.62	
G103	80.78	55.31	5.55	39.57	80.62	50.08	4.92	60.0	80.78	
G104	81.02	55.98	6.45	40.08	79.92	50.2	5.7	61.33	81.02	
G105	81.6	56.84	7.38	40.86	79.38	50.7	6.52	62.5	81.6	
G106	82.19	57.89	8.44	41.72	78.59	51.48	7.38	63.67	82.19	
G107	83.05	58.63	9.34	42.62	78.48	52.54	8.4	65.0	83.05	
G108	83.87	59.77	10.35	43.59	78.59	53.52	9.45	66.37	83.87	
G109	84.96	60.66	11.37	44.65	79.18	54.8	10.55	67.77	84.96	
G110	85.86	61.41	12.34	45.78	79.49	56.05	11.68	69.38	85.86	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G111	86.91	62.38	13.4	47.19	80.2	57.42	12.81	70.98	86.91	
G112	87.85	62.7	14.45	48.52	80.86	58.91	14.02	72.3	87.85	
G113	88.87	62.7	15.55	49.96	81.6	60.55	15.2	73.48	88.87	
G114	89.65	62.62	16.64	51.02	82.46	62.23	16.45	74.77	89.65	
G115	90.86	62.54	17.66	52.07	83.16	64.06	17.73	76.02	90.86	
G116	91.76	62.3	18.67	53.05	84.1	65.66	18.87	77.11	91.76	
G117	92.85	62.03	19.61	53.87	85.0	67.38	19.96	78.52	92.85	
G118	93.75	61.76	20.43	54.49	85.98	69.1	21.13	79.84	93.75	
G119	95.12	61.33	21.17	54.96	87.03	70.82	22.23	81.05	95.12	
G120	95.78	60.63	21.8	55.39	88.16	72.46	23.28	82.27	95.78	
G121	96.84	60.04	22.38	55.7	89.26	74.1	24.3	83.48	96.84	
G122	97.73	59.3	22.73	55.94	90.47	75.78	25.47	84.88	97.73	
G123	98.71	58.87	23.13	56.21	91.91	77.38	26.45	85.66	98.71	
G124	99.18	58.52	23.48	56.41	92.97	78.91	27.5	86.45	99.18	
G125	100.74	58.44	23.75	56.84	94.14	80.35	28.48	87.15	100.74	
G126	101.6	58.59	24.02	57.46	95.23	81.88	29.45	87.62	101.6	
G127	102.42	58.79	24.26	58.09	96.6	83.32	30.43	88.2	102.42	
G128	103.13	59.3	24.41	58.83	97.58	84.77	31.41	88.67	103.13	
G129	104.02	59.92	24.61	59.65	98.55	86.17	32.5	89.14	104.02	
G130	104.69	60.63	24.77	60.59	99.61	87.42	33.24	89.49	104.69	
G131	105.47	61.6	24.88	61.37	100.7	88.36	34.1	89.8	105.47	
G132	105.82	62.5	25.0	62.34	101.68	88.98	34.88	90.23	105.82	
G133	106.09	63.44	25.04	63.55	102.62	89.69	35.63	90.35	106.09	
G134	106.45	64.26	25.16	64.8	103.44	90.43	36.56	90.55	106.45	
G135	106.64	65.2	25.16	65.82	104.53	90.78	37.07	90.39	106.64	
G136	106.72	66.09	25.16	67.23	105.2	91.25	37.7	90.47	106.72	
G137	106.88	66.68	25.16	68.52	105.98	91.76	38.2	90.08	106.88	
G138	106.76	67.34	25.12	69.88	106.8	91.91	38.63	89.77	106.76	
G139	106.68	67.77	25.12	71.05	107.5	92.23	39.1	89.26	106.68	
G140	106.25	67.81	25.08	72.34	107.77	92.38	39.53	88.63	106.25	
G141	105.98	67.73	25.04	73.71	107.77	92.5	39.84	87.11	105.98	
G142	105.35	66.88	25.0	74.96	107.85	92.42	40.16	85.08	105.35	
G143	104.57	66.25	25.0	76.13	107.89	92.23	40.31	82.97	104.57	
G144	103.83	65.16	24.8	77.27	107.89	92.19	40.51	80.7	103.83	
G145	103.16	64.06	24.57	78.32	107.93	92.11	40.7	78.16	103.16	
G146	101.99	62.93	24.38	79.1	107.85	91.95	40.98	75.82	101.99	
G147	101.02	61.37	24.14	80.2	107.54	91.76	40.98	73.52	101.02	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2024/6/13 8:46:51

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G148	99.61	59.41	24.02	80.55	107.38	91.64	41.09	71.02	99.61	
G149	98.09	57.11	23.75	80.94	106.99	91.48	41.21	68.63	98.09	
G150	95.74	54.38	23.48	81.37	106.6	90.9	41.17	66.13	95.74	
G151	93.01	51.25	23.36	81.45	106.13	90.47	41.13	63.55	93.01	
G152	89.92	47.7	22.97	81.45	105.7	90.16	41.09	60.9	89.92	
G153	86.76	43.87	22.73	81.33	105.12	89.3	41.09	58.32	86.76	
G154	83.36	39.84	22.38	80.66	104.3	88.79	41.05	55.7	83.36	
G155	80.16	35.94	22.07	79.34	103.4	87.85	40.86	53.01	80.16	
G156	76.45	32.27	21.72	77.81	102.54	86.17	40.82	50.47	76.45	
G157	72.54	28.83	21.37	75.82	101.48	84.57	40.78	47.66	72.54	
G158	68.67	25.9	21.02	73.67	100.31	82.38	40.51	45.08	68.67	
G159	64.73	23.24	20.59	71.52	98.95	80.47	40.35	42.54	64.73	
G160	60.63	20.9	20.16	69.22	97.62	78.09	40.04	40.2	60.63	
G161	56.68	19.02	19.77	66.64	95.98	75.63	39.73	37.97	56.68	
G162	52.62	17.58	19.3	63.98	93.4	73.05	39.45	35.7	52.62	
G163	48.63	16.29	18.79	61.05	90.63	70.55	39.1	34.18	48.63	
G164	44.88	15.43	18.24	58.36	87.34	67.62	38.91	33.13	44.88	
G165	41.84	14.69	17.77	55.43	83.63	64.8	38.24	32.11	41.84	
G166	38.2	13.95	17.19	52.58	79.38	61.64	37.77	31.17	38.2	
G167	34.49	13.13	16.41	49.61	74.26	58.55	37.23	30.43	34.49	
G168	31.21	12.27	15.7	46.6	68.79	55.59	36.56	29.65	31.21	
G169	27.7	11.45	14.92	44.06	63.05	52.73	35.86	28.79	27.7	
G170	24.3	10.55	14.06	41.8	56.76	49.96	35.08	28.09	24.3	
G171	21.68	9.69	13.05	39.41	50.12	47.93	34.14	27.34	21.68	
G172	20.2	8.79	11.99	37.23	43.75	45.59	33.16	26.6	20.2	
G173	19.69	7.89	10.86	34.8	37.62	42.73	31.76	25.66	19.69	
G174	19.49	6.84	9.84	31.99	31.72	39.73	30.43	24.73	19.49	
G175	19.53	6.02	10.31	29.38	27.85	36.29	29.1	23.75	19.53	
G176	19.61	6.29	11.91	26.8	25.23	33.4	28.05	22.89	19.61	
G177	19.8	8.67	14.3	24.26	23.05	31.37	27.15	22.11	19.8	
G178	19.92	12.81	17.58	22.27	21.64	29.45	26.41	21.41	19.92	
G179	20.08	6.41	20.43	20.98	21.05	27.58	25.2	20.7	20.08	
G180	20.36	0.0	0.0	0.0	20.6	23.98	23.13	19.97	20.36	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2024/6/13 8:46:51

G Range: 0 - 180 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 6.25 m

Remarks: