

Report No.:

Test Time: 2021/3/18 16:41:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 中山市诺邦照明有限公司
Luminaire Type: DC.PF0104-1
Lamp Type: OSRAM3030
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 52 mm

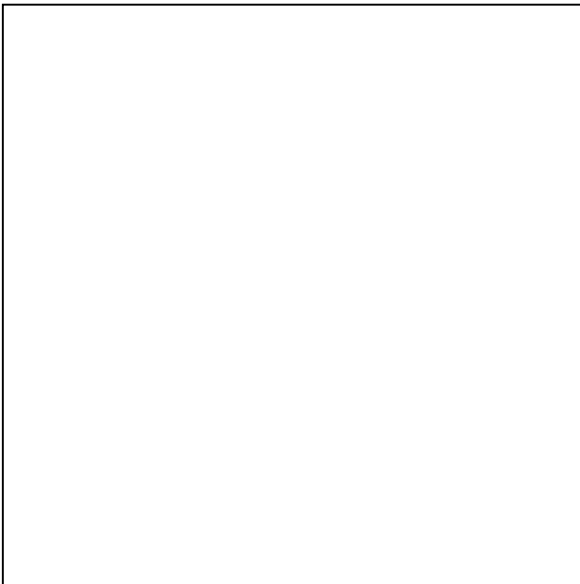
Voltage(V): 48.08 V
Current(A): 0.2760 A
Power(W): 4.00 W
Power Factor: 0.6470
Lamp Luminous Flux: 221.38

Photometric Results

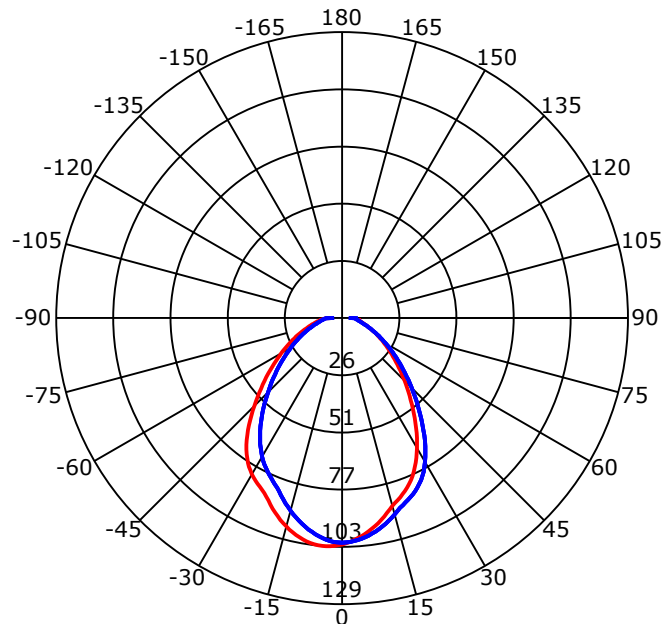
CIE Class: Direct
Luminaire Luminous Flux: 221.3813
Downward Ratio: 0.45%
Luminaire Efficacy Rating(LER): 55.35 lm/W
Beam Angle(50%) C0-180,C90-270: 85.4,84.6
Field Angle(10%) C0-180,C90-270: 159.3,156.6

Max. Intensity: 102.91 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 99.55%
Efficacy: 100.00%
Center Intensity: 101.89 cd

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 85.4 deg,84.6 deg

C0-180 — C90-270 —

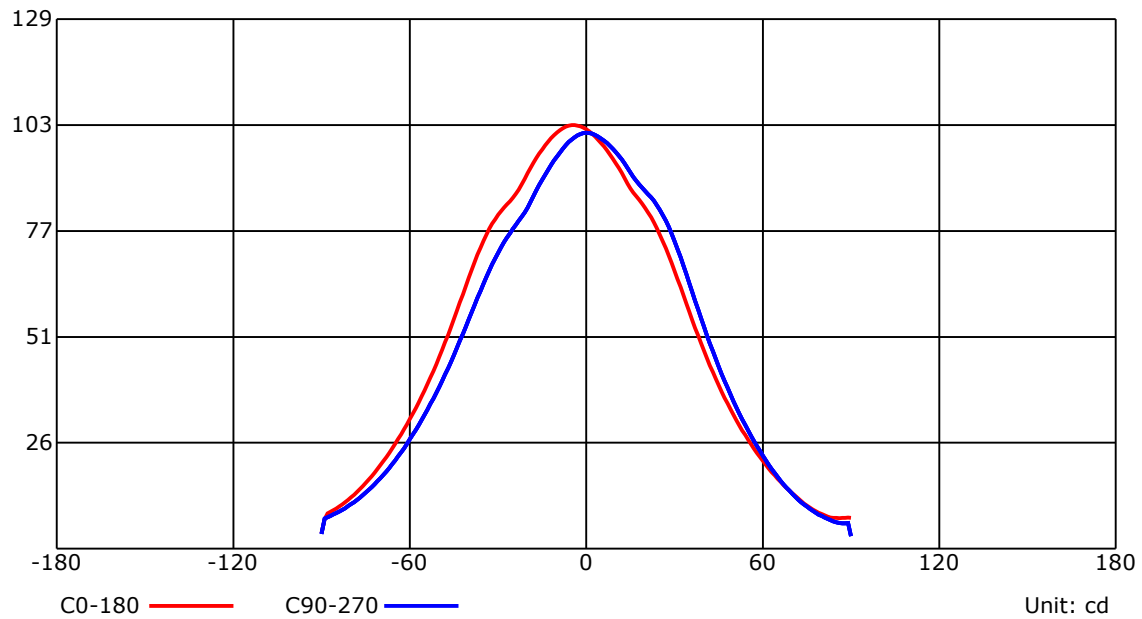
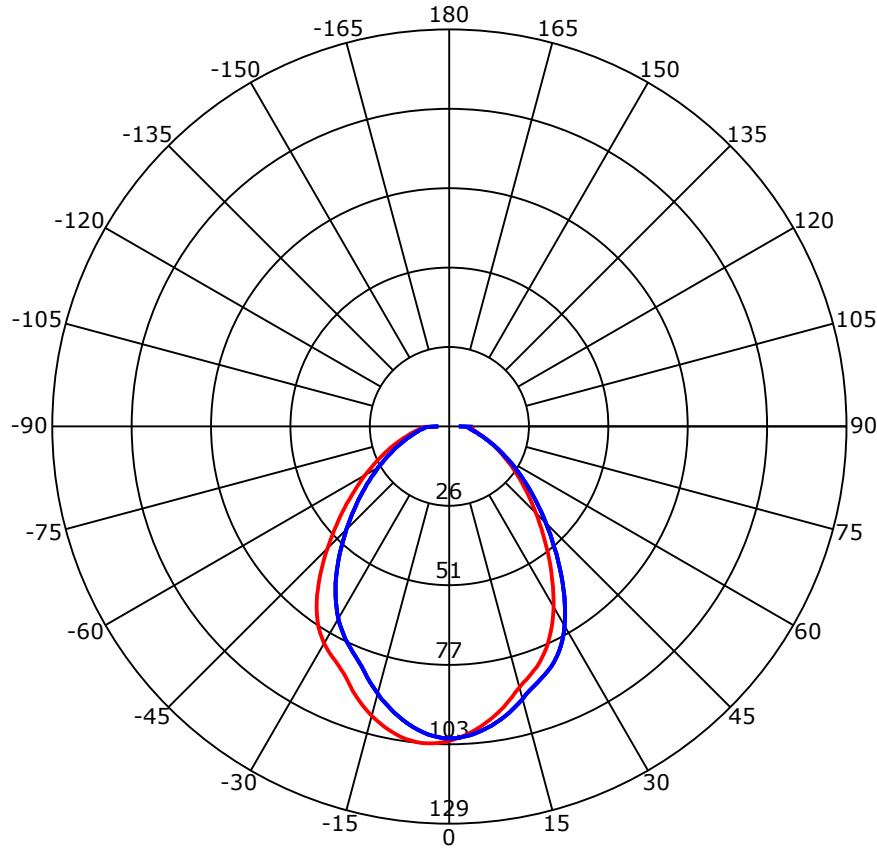
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.76
Operators: 周奇
Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

Luminous Intensity Distribution Curve



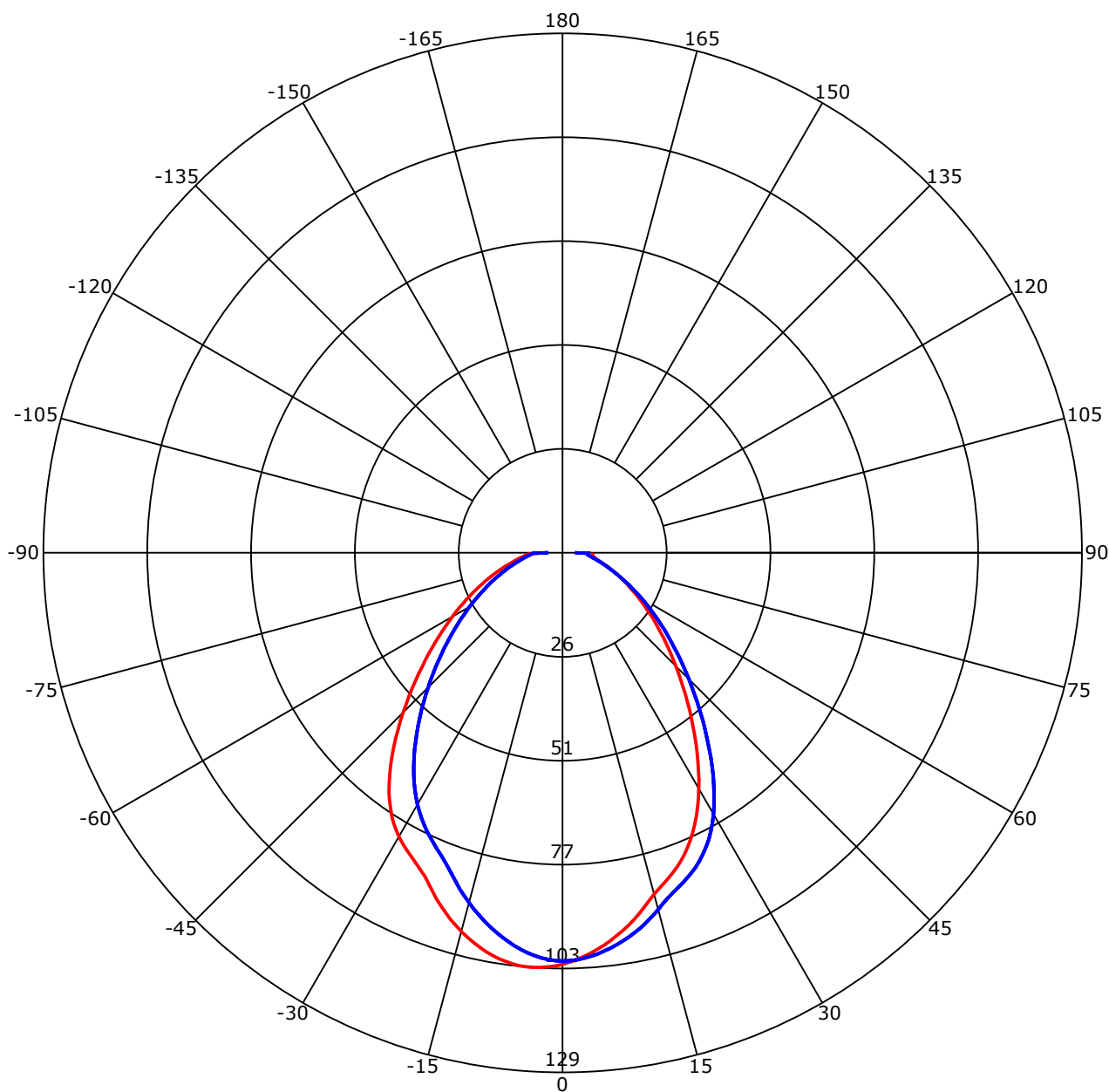
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.76
Operators: 周奇
Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.76
Operators: 周奇
Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

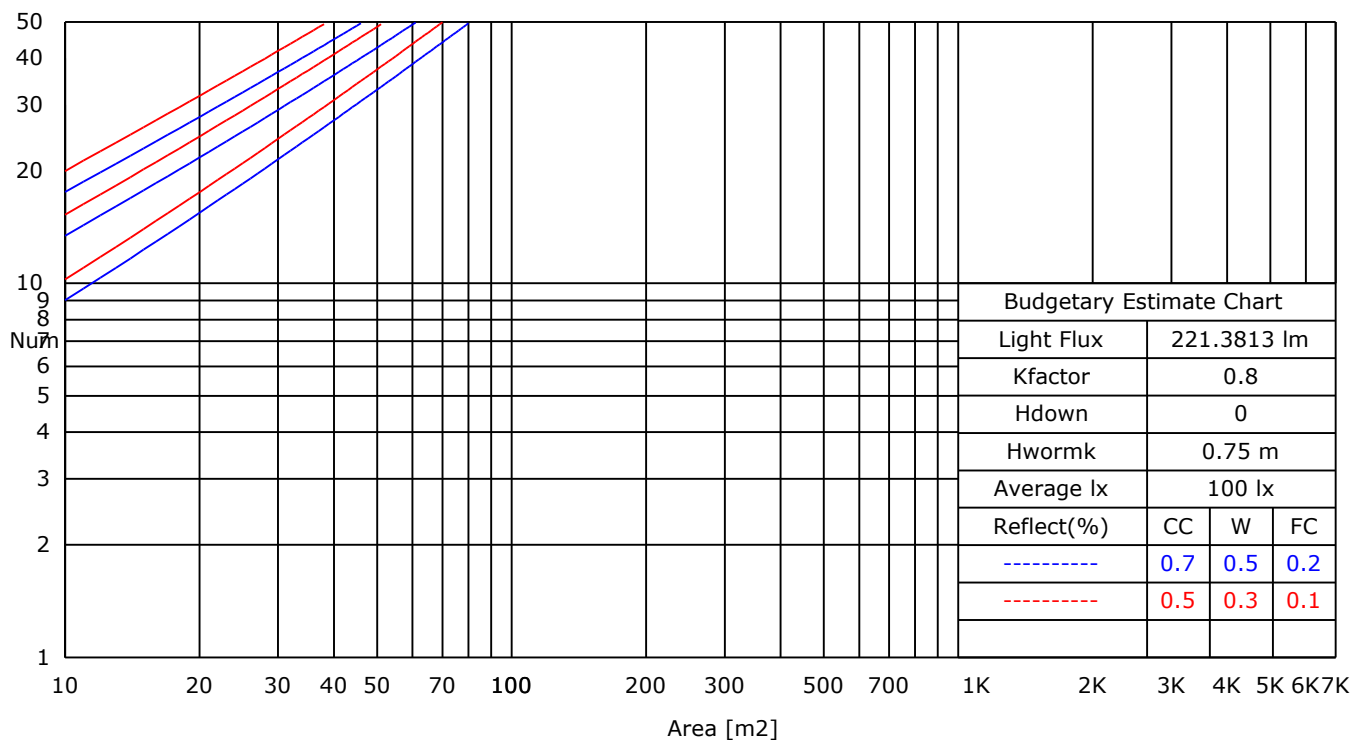
Report No.:

Test Time: 2021/3/18 16:41:26

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	1.06	1.04	1.03	1.04	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	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	0.85	0.82	0.81	0.84	0.81	0.79	0.82	0.79	0.76	0.79	0.75	0.72	0.76	0.71	0.67	0.63
4	0.77	0.74	0.73	0.76	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	0.70	0.68	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.55	0.52
6	0.64	0.62	0.60	0.64	0.61	0.59	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.55	0.51	0.47
7	0.59	0.57	0.56	0.60	0.57	0.55	0.59	0.55	0.52	0.59	0.53	0.50	0.57	0.51	0.47	0.44
8	0.55	0.53	0.52	0.55	0.53	0.51	0.55	0.51	0.48	0.55	0.50	0.46	0.54	0.48	0.44	0.41
9	0.52	0.50	0.48	0.52	0.49	0.47	0.52	0.48	0.45	0.52	0.47	0.43	0.51	0.45	0.41	0.38
10	0.48	0.47	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.48	0.43	0.38	0.35

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



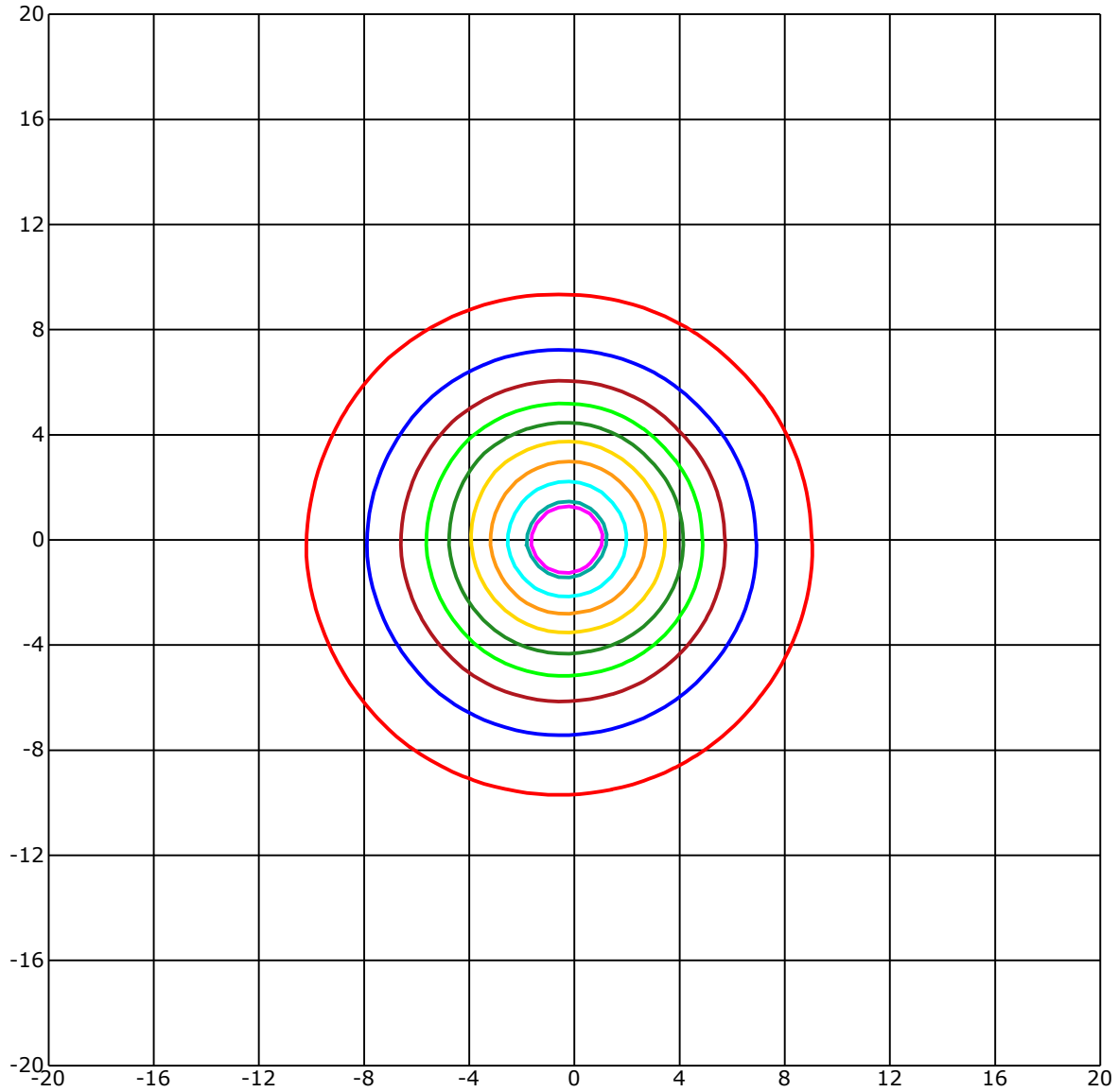
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.76
Operators: 周奇
Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

ISOLX DIAGRAM



Unit of illumination:lx

Height of plane:8.0(m)/26.25(ft)

1.472(1%Emax)

1.44(1%Emax)

1.28(1%Emax)

1.12(1%Emax)

0.96(1%Emax)

0.8(1%Emax)

0.64(1%Emax)

0.48(0%Emax)

0.32(0%Emax)

0.16(0%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.76

Operators: 周奇

Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 7.76 m

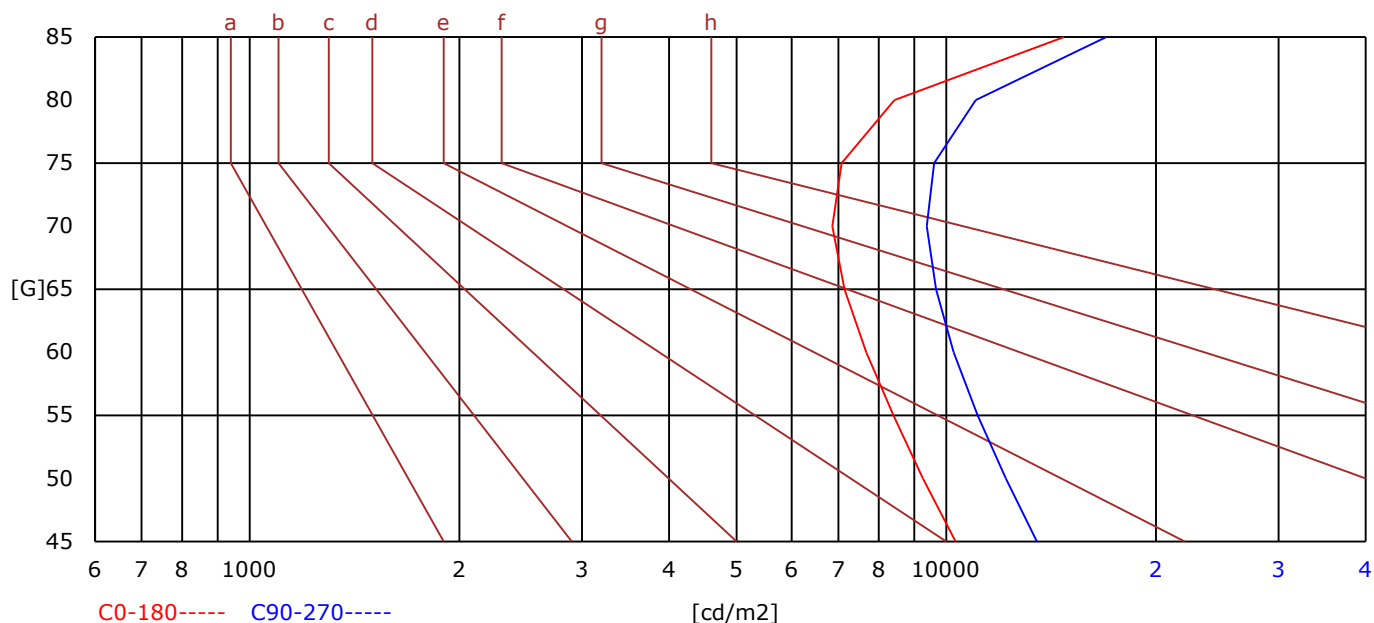
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10311	9255	8397	7676	7143	6864	7074	8423	14762
C90	13491	12172	11091	10249	9667	9372	9602	11019	16970
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



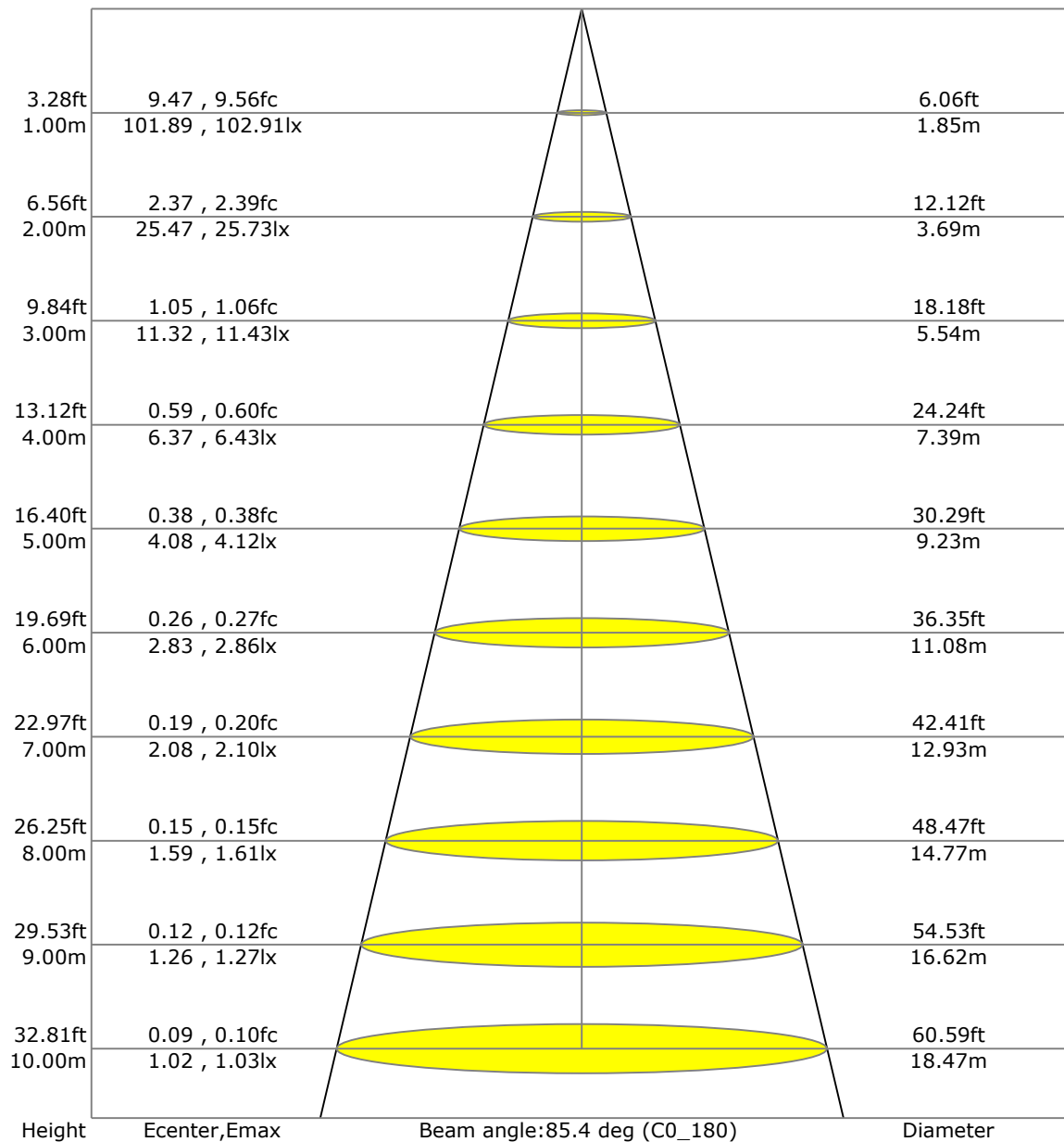
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.76
Operators: 周奇
Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.76

Operators: 周奇

Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 7.76 m

Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	70	70	50	50	30	70	70	50	50	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	22.49	22.57	22.69	22.75	23.00	22.70	22.77	22.90	22.96	23.21
3H	22.60	22.67	22.81	22.87	23.11	22.80	22.87	23.01	23.07	23.31
4H	22.62	22.69	22.83	22.88	23.13	22.82	22.89	23.03	23.08	23.33
6H	22.61	22.68	22.82	22.88	23.13	22.81	22.88	23.02	23.08	23.33
8H	22.59	22.66	22.81	22.86	23.12	22.79	22.86	23.01	23.06	23.32
12H	22.58	22.64	22.80	22.85	23.11	22.78	22.84	23.00	23.05	23.31
4H 2H	24.86	24.93	25.07	25.12	25.37	24.94	25.01	25.15	25.21	25.46
3H	25.16	25.23	25.38	25.43	25.69	25.23	25.30	25.46	25.51	25.76
4H	25.26	25.32	25.49	25.53	25.79	25.33	25.39	25.56	25.61	25.87
6H	25.31	25.37	25.55	25.59	25.86	25.39	25.45	25.62	25.67	25.93
8H	25.32	25.38	25.57	25.61	25.87	25.40	25.45	25.64	25.68	25.95
12H	25.32	25.37	25.57	25.60	25.87	25.39	25.45	25.64	25.68	25.95
8H 4H	26.06	26.13	26.28	26.34	26.59	26.03	26.09	26.24	26.30	26.55
6H	27.10	27.15	27.35	27.39	27.66	27.04	27.09	27.29	27.33	27.60
8H	27.19	27.24	27.46	27.49	27.76	27.14	27.18	27.40	27.43	27.70
12H	27.26	27.31	27.53	27.56	27.84	27.22	27.26	27.48	27.51	27.79
12H 4H	27.61	27.66	27.85	27.89	28.16	27.43	27.49	27.68	27.72	27.99
6H	27.98	28.03	28.24	28.28	28.55	27.80	27.85	28.06	28.10	28.37

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.76

Operators: 周奇

Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 7.76 m

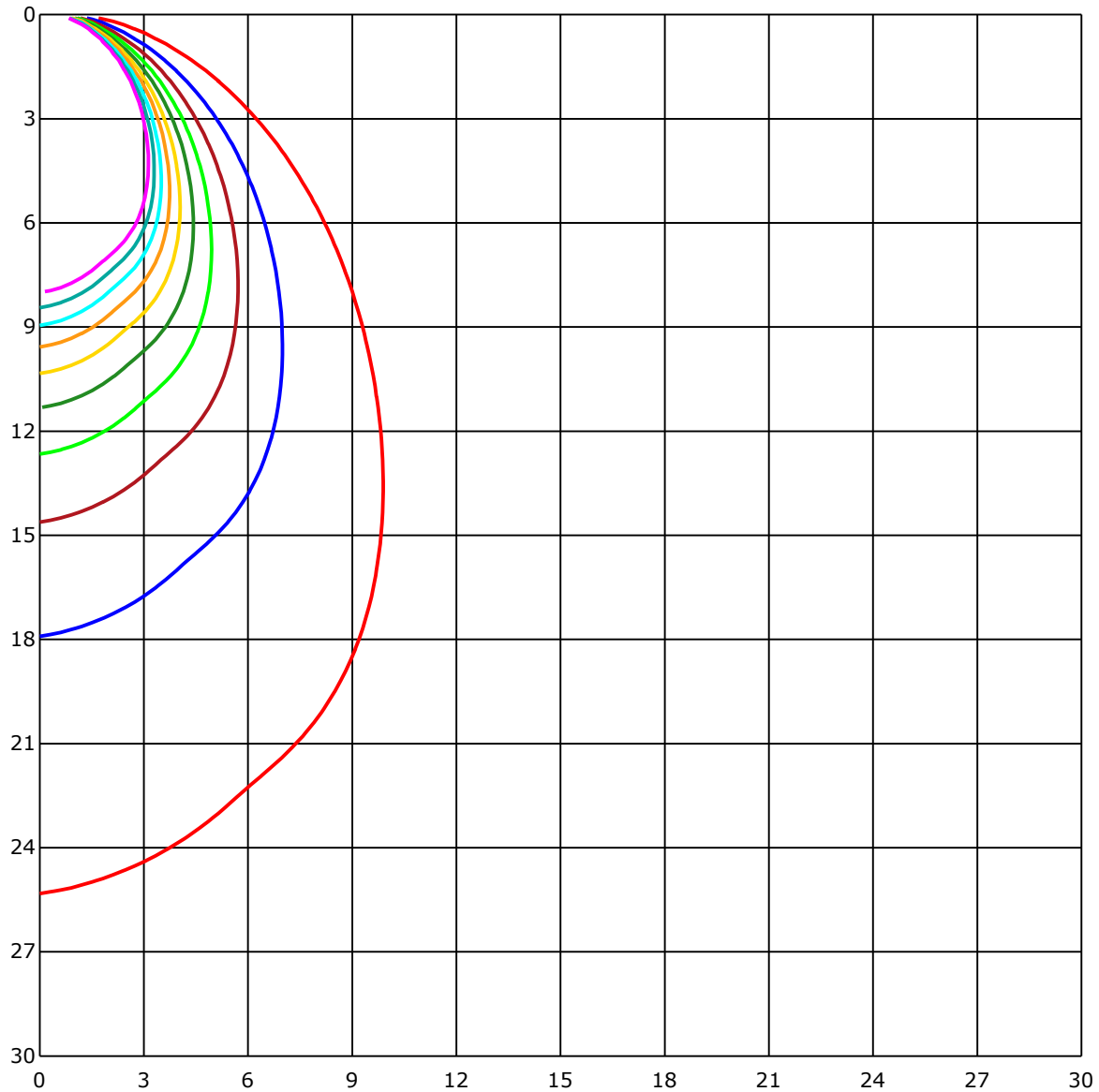
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

SPACE ISOLX DIAGRAM



Unit of illumination:lx

1.589
1.43
1.271
1.112
0.953

0.795
0.636
0.477
0.318
0.159

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 7.76
Operators: 周奇
Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	101.89	101.41	101.05	100.68	101.89	101.41	101.05	100.68	101.89	
G1	101.35	101.02	100.95	100.92	102.28	101.68	100.95	100.29	101.35	
G2	100.77	100.53	100.8	101.11	102.58	101.83	100.77	99.78	100.77	
G3	100.08	100.02	100.47	101.2	102.79	101.86	100.41	99.15	100.08	
G4	99.33	99.39	100.14	101.14	102.91	101.74	99.96	98.49	99.33	
G5	98.55	98.7	99.66	100.98	102.88	101.53	99.42	97.73	98.55	
G6	97.67	97.97	99.12	100.71	102.76	101.2	98.76	96.92	97.67	
G7	96.77	97.13	98.55	100.38	102.49	100.74	98.0	96.08	96.77	
G8	95.78	96.23	97.85	99.99	102.13	100.2	97.13	95.14	95.78	
G9	94.75	95.26	97.13	99.45	101.68	99.51	96.26	94.18	94.75	
G10	93.67	94.24	96.35	98.85	101.11	98.79	95.26	93.16	93.67	
G11	92.49	93.16	95.48	98.18	100.44	97.94	94.27	92.07	92.49	
G12	91.29	91.98	94.57	97.43	99.69	97.04	93.19	90.99	91.29	
G13	90.0	90.75	93.55	96.65	98.88	96.08	92.04	89.78	90.0	
G14	88.7	89.57	92.49	95.78	98.0	95.05	90.9	88.61	88.7	
G15	87.53	88.46	91.41	94.84	97.01	94.03	89.66	87.32	87.53	
G16	86.53	87.47	90.3	93.91	95.99	92.95	88.37	85.99	86.53	
G17	85.6	86.59	89.3	92.83	94.93	91.83	87.07	84.88	85.6	
G18	84.73	85.72	88.46	91.74	93.73	90.63	85.66	83.85	84.73	
G19	83.76	84.82	87.68	90.6	92.52	89.42	84.24	82.95	83.76	
G20	82.8	83.85	86.92	89.54	91.26	88.16	82.89	82.05	82.8	
G21	81.69	82.77	86.14	88.67	89.87	86.83	81.72	81.11	81.69	
G22	80.48	81.56	85.33	87.98	88.49	85.54	80.63	80.15	80.48	
G23	79.19	80.27	84.46	87.35	87.2	84.3	79.67	79.13	79.19	
G24	77.8	78.85	83.43	86.74	86.17	83.16	78.67	77.98	77.8	
G25	76.27	77.32	82.29	86.11	85.24	82.2	77.68	76.81	76.27	
G26	74.67	75.66	81.05	85.45	84.43	81.26	76.66	75.51	74.67	
G27	72.98	73.98	79.67	84.64	83.64	80.42	75.57	74.13	72.98	
G28	71.21	72.2	78.16	83.67	82.89	79.52	74.43	72.65	71.21	
G29	69.37	70.33	76.45	82.53	82.02	78.61	73.19	71.09	69.37	
G30	67.47	68.41	74.67	81.26	81.11	77.62	71.9	69.43	67.47	
G31	65.52	66.42	72.8	79.91	80.06	76.57	70.54	67.71	65.52	
G32	63.53	64.4	70.79	78.4	78.98	75.42	69.07	65.94	63.53	
G33	61.54	62.36	68.71	76.75	77.68	74.16	67.53	64.1	61.54	
G34	59.53	60.31	66.66	74.97	76.27	72.8	65.97	62.23	59.53	
G35	57.54	58.29	64.52	73.1	74.76	71.36	64.34	60.37	57.54	
G36	55.58	56.27	62.39	71.12	73.16	69.82	62.63	58.47	55.58	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.76

Operators: 周奇

Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 7.76 m

Remarks:

Report No.:

Test Time: 2021/3/18 16:41:26

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	53.62	54.32	60.19	69.07	71.42	68.2	60.91	56.6	53.62	
G38	51.73	52.33	58.05	66.93	69.58	66.51	59.16	54.71	51.73	
G39	49.89	50.43	55.97	64.82	67.71	64.79	57.45	52.84	49.89	
G40	48.05	48.54	53.89	62.69	65.79	62.99	55.67	51.0	48.05	
G41	46.28	46.7	51.85	60.58	63.77	61.12	53.92	49.2	46.28	
G42	44.53	44.89	49.86	58.44	61.78	59.25	52.18	47.45	44.53	
G43	42.87	43.21	47.93	56.33	59.8	57.39	50.46	45.74	42.87	
G44	41.25	41.52	46.07	54.29	57.84	55.52	48.78	44.05	41.25	
G45	39.68	39.92	44.2	52.24	55.85	53.65	47.09	42.39	39.68	
G46	38.15	38.33	42.42	50.28	53.89	51.85	45.46	40.8	38.15	
G47	36.67	36.85	40.74	48.35	52.0	50.04	43.9	39.26	36.67	
G48	35.23	35.35	39.05	46.46	50.16	48.29	42.33	37.76	35.23	
G49	33.87	33.93	37.43	44.62	48.32	46.55	40.8	36.28	33.87	
G50	32.52	32.58	35.83	42.84	46.58	44.86	39.32	34.87	32.52	
G51	31.22	31.25	34.32	41.16	44.83	43.27	37.91	33.54	31.22	
G52	29.99	29.96	32.85	39.5	43.21	41.67	36.49	32.22	29.99	
G53	28.75	28.72	31.43	37.88	41.55	40.14	35.14	30.95	28.75	
G54	27.61	27.52	30.05	36.34	39.98	38.63	33.81	29.69	27.61	
G55	26.44	26.38	28.72	34.84	38.45	37.21	32.55	28.51	26.44	
G56	25.35	25.23	27.43	33.39	37.0	35.8	31.25	27.34	25.35	
G57	24.27	24.12	26.16	31.98	35.56	34.41	30.05	26.22	24.27	
G58	23.24	23.03	24.96	30.65	34.14	33.06	28.84	25.14	23.24	
G59	22.25	22.04	23.76	29.33	32.79	31.83	27.7	24.09	22.25	
G60	21.32	21.02	22.61	28.06	31.49	30.56	26.59	23.06	21.32	
G61	20.38	20.08	21.5	26.86	30.2	29.36	25.47	22.1	20.38	
G62	19.48	19.15	20.41	25.68	28.99	28.18	24.39	21.17	19.48	
G63	18.61	18.22	19.39	24.54	27.76	27.04	23.39	20.23	18.61	
G64	17.82	17.37	18.4	23.42	26.62	25.92	22.4	19.36	17.82	
G65	17.01	16.53	17.43	22.37	25.47	24.87	21.44	18.49	17.01	
G66	16.26	15.72	16.53	21.32	24.39	23.82	20.53	17.64	16.26	
G67	15.51	14.96	15.69	20.35	23.3	22.82	19.63	16.89	15.51	
G68	14.81	14.24	14.84	19.36	22.28	21.83	18.79	16.11	14.81	
G69	14.12	13.52	14.06	18.43	21.29	20.87	17.94	15.39	14.12	
G70	13.49	12.86	13.31	17.55	20.32	19.96	17.13	14.69	13.49	
G71	12.86	12.22	12.59	16.71	19.39	19.06	16.41	14.03	12.86	
G72	12.22	11.62	11.95	15.84	18.49	18.22	15.66	13.4	12.22	
G73	11.59	11.05	11.32	15.08	17.58	17.4	14.93	12.77	11.59	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 7.76

Operators: 周奇

Test Date: 2021/3/18 16:41:26

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 7.76 m

Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 7.76 m
Remarks: