

Report No.:

Test Time: 2024/8/19 10:53:47

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP221CT042PIN-24°-7.6W
Lamp Type:
Luminous Width: 14 mm
Luminous Length: 14 mm
Luminous Height: 47 mm

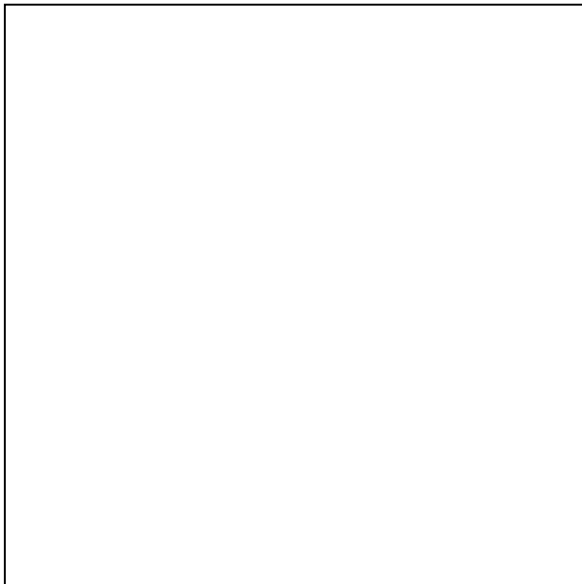
Voltage(V): 220.40 V
Current(A): 0.0640 A
Power(W): 7.58 W
Power Factor: 0.5320
Lamp Luminous Flux: 265.30

Photometric Results

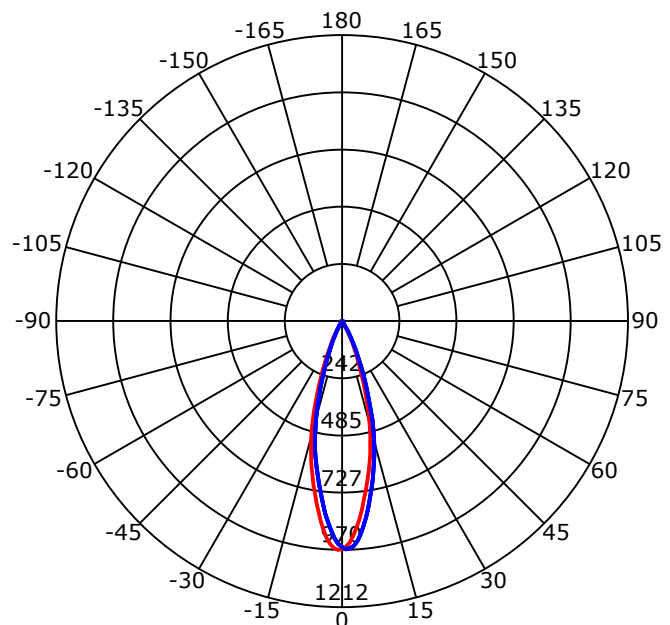
CIE Class: Direct
Luminaire Luminous Flux: 265.2961 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 35.00 lm/W
Beam Angle(50%) C0-180,C90-270: 29.6,29.6
Field Angle(10%) C0-180,C90-270: 51.6,51.3
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 969.50 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 967.39 cd
Effective Luminous Flux: 243.02 lm
ERP(ϕ use)(120deg): 265.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 29.6 deg,29.6 deg

C0-180 — C90-270

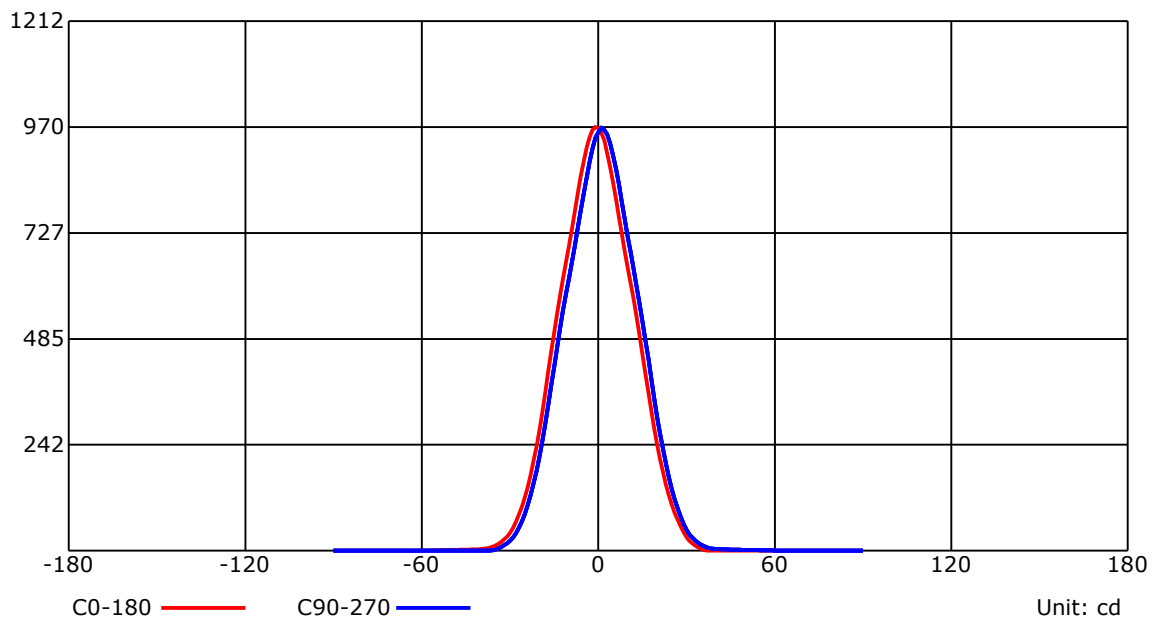
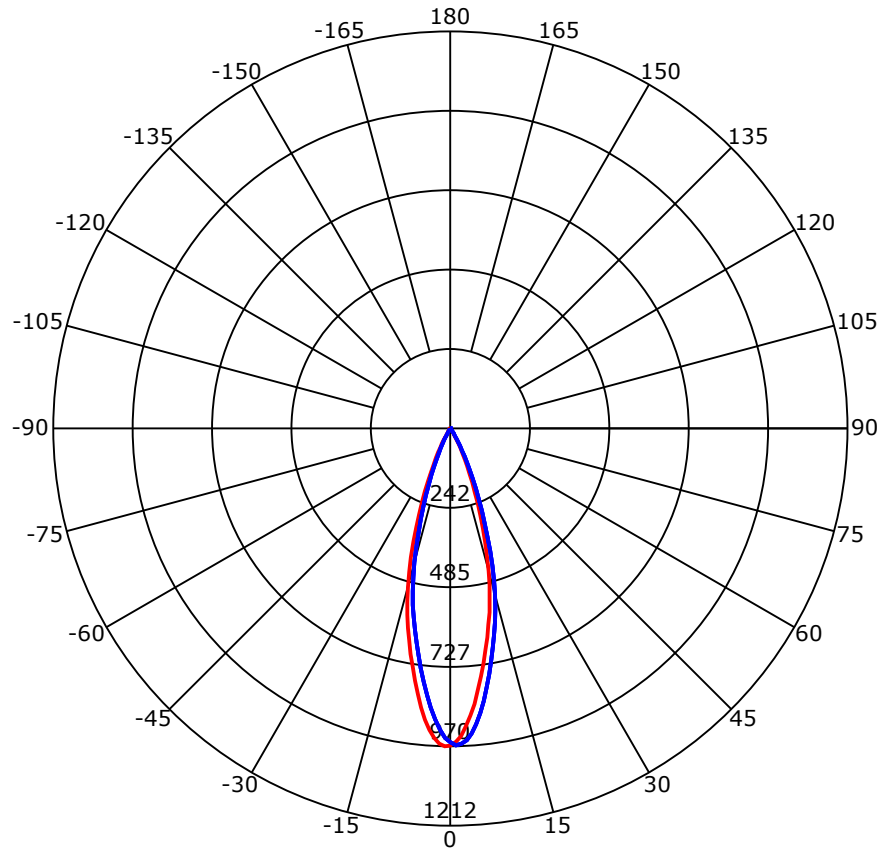
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

Luminous Intensity Distribution Curve



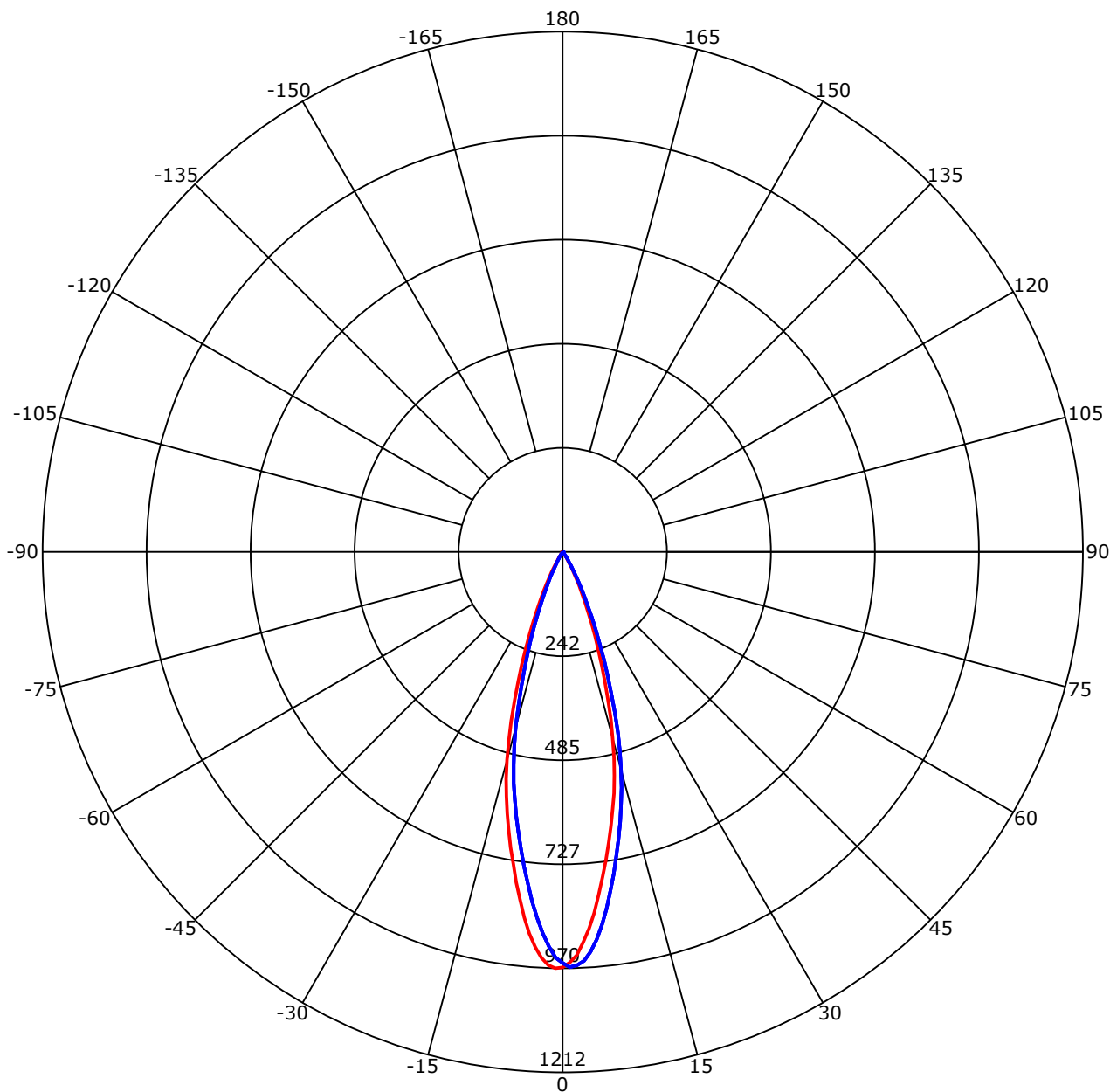
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.71 m
 Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

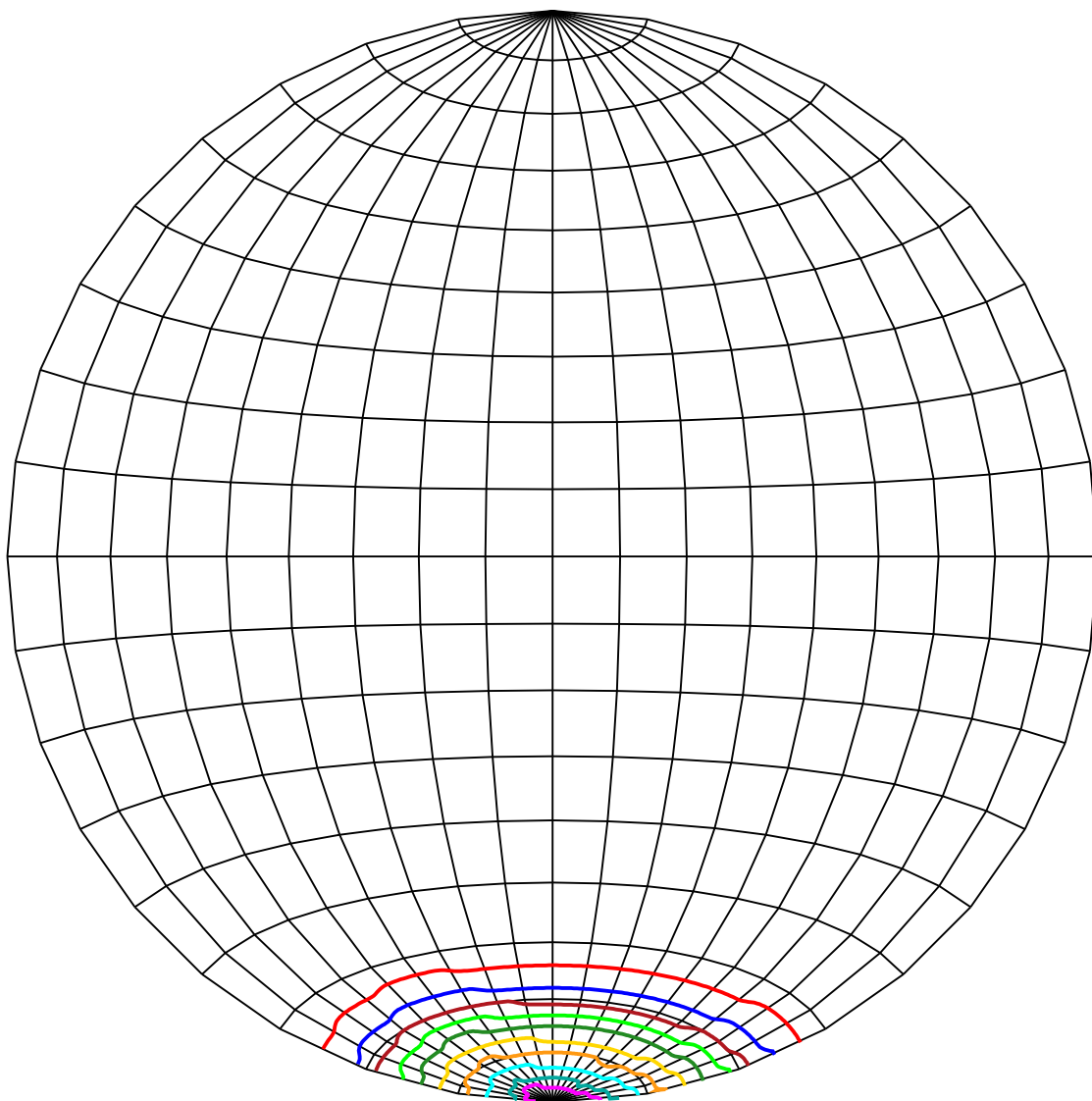
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 969.504 cd

921.029(95%I _{max})	484.752(50%I _{max})
872.554(90%I _{max})	387.802(40%I _{max})
775.603(80%I _{max})	290.851(30%I _{max})
678.653(70%I _{max})	193.901(20%I _{max})
581.703(60%I _{max})	96.95(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

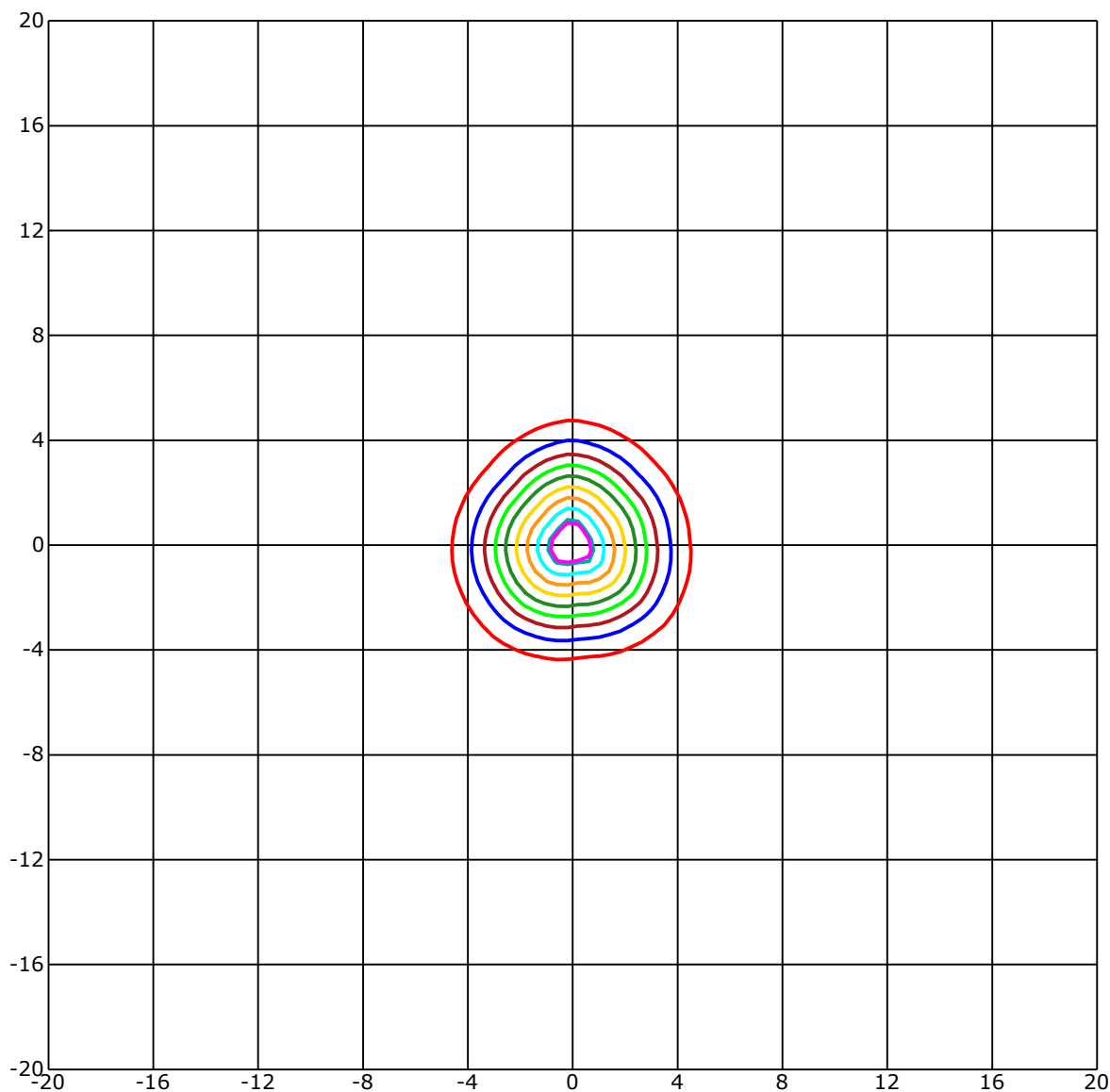
Test Distance: 6.71 m

Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

ISOLX DIAGRAM



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

8.915(92%Emax)	4.845(50%Emax)
8.722(90%Emax)	3.876(40%Emax)
7.752(80%Emax)	2.907(30%Emax)
6.783(70%Emax)	1.938(20%Emax)
5.814(60%Emax)	0.969(10%Emax)

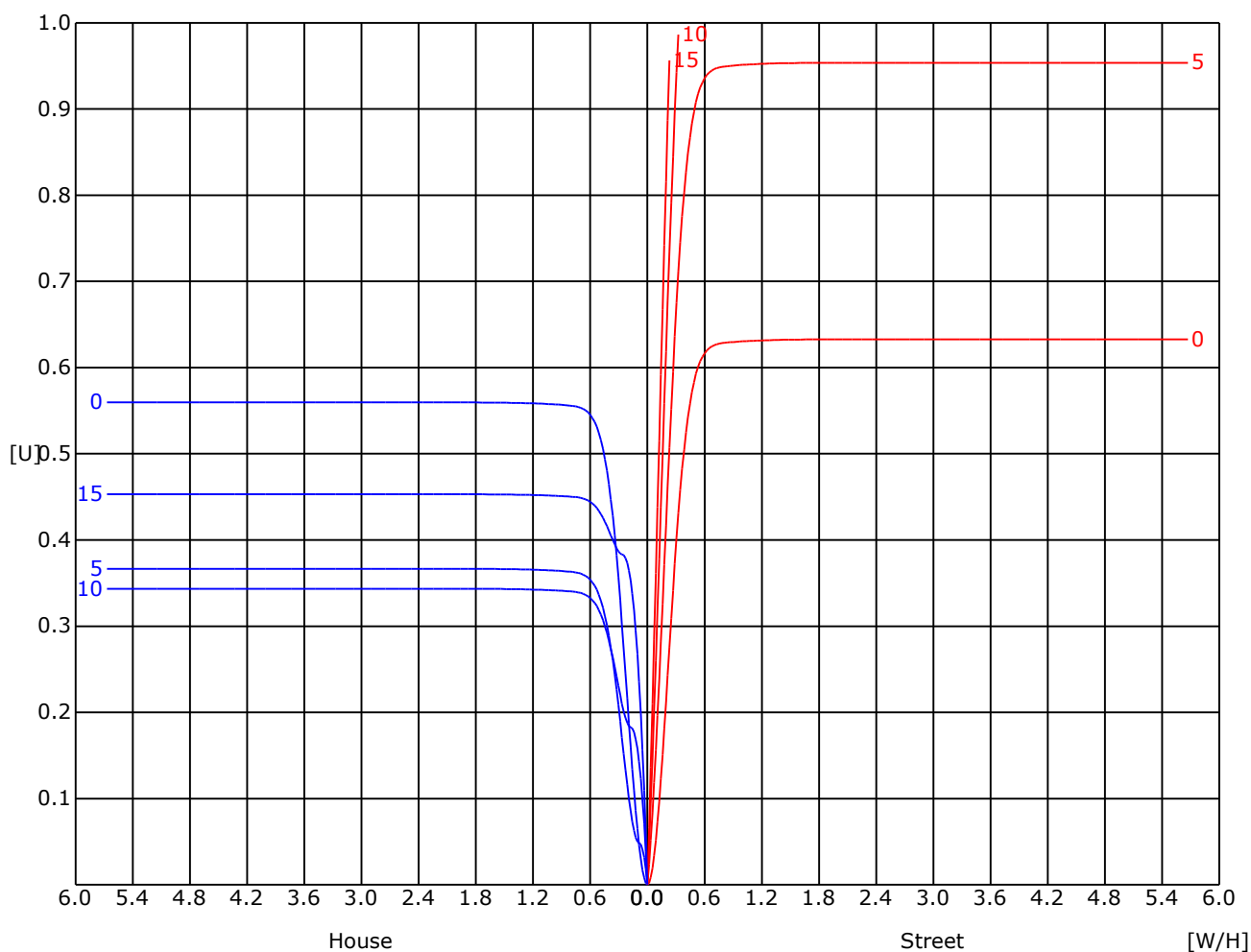
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

UTILIZATION FACTOR DIAGRAM (ROAD)



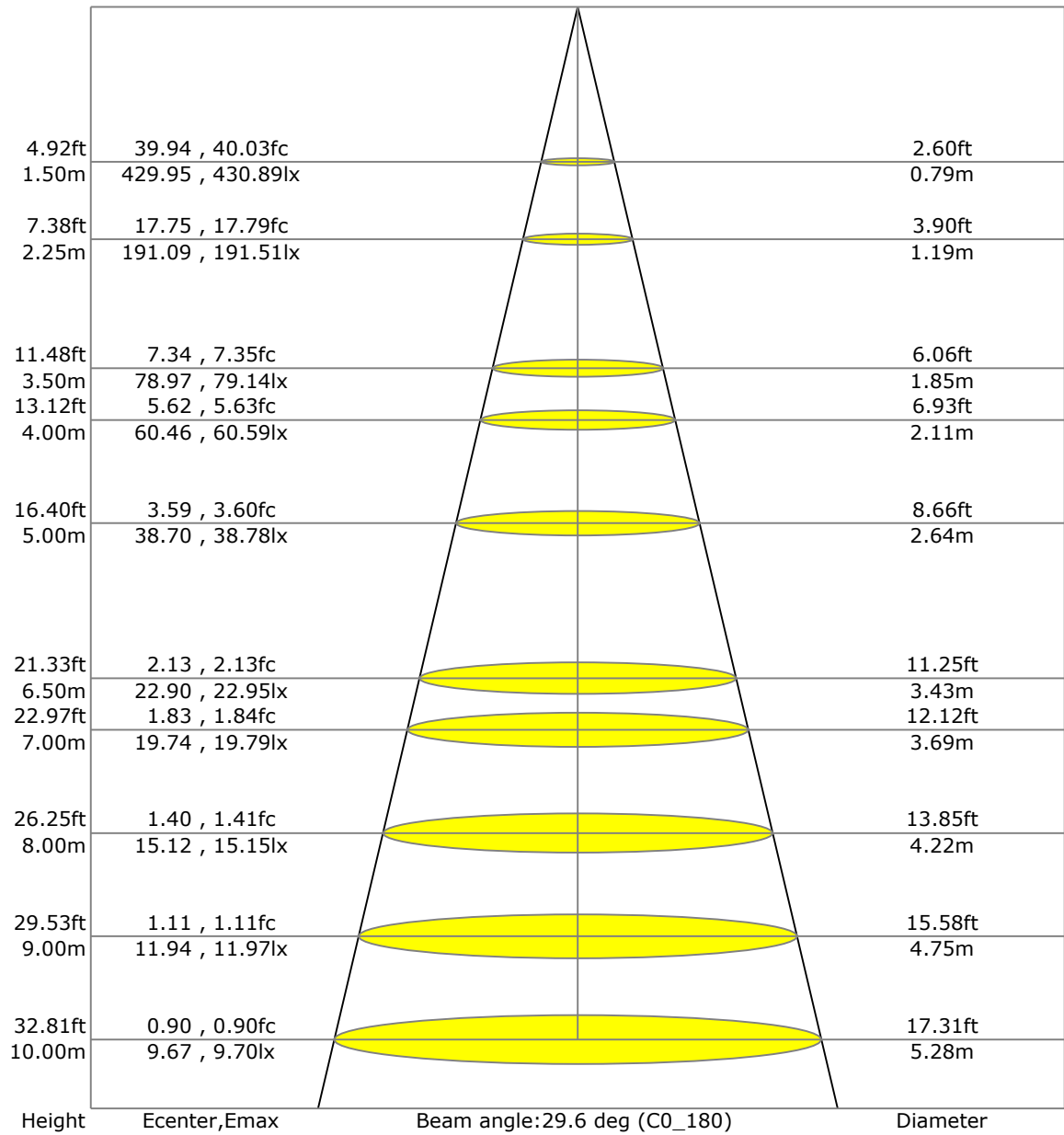
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

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	3.63	3.68	3.82	3.86	4.11	4.97	5.02	5.17	5.21	5.45
	3H	3.60	3.66	3.81	3.85	4.10	4.95	5.00	5.15	5.20	5.44
	4H	3.59	3.65	3.80	3.84	4.09	4.94	4.99	5.15	5.19	5.44
	6H	3.58	3.64	3.79	3.84	4.09	4.92	4.98	5.14	5.18	5.43
	8H	3.57	3.63	3.79	3.83	4.08	4.92	4.97	5.13	5.18	5.43
	12H	3.56	3.62	3.79	3.83	4.08	4.91	4.96	5.13	5.17	5.43
4H	2H	3.59	3.65	3.80	3.84	4.09	4.94	4.99	5.15	5.19	5.44
	3H	3.56	3.62	3.79	3.83	4.08	4.91	4.96	5.13	5.17	5.43
	4H	3.55	3.60	3.78	3.82	4.08	4.89	4.95	5.12	5.16	5.42
	6H	3.53	3.58	3.76	3.81	4.07	4.87	4.93	5.11	5.15	5.41
	8H	3.52	3.57	3.76	3.80	4.07	4.86	4.92	5.10	5.14	5.41
	12H	3.50	3.56	3.75	3.79	4.06	4.85	4.90	5.10	5.14	5.41
8H	4H	3.57	3.63	3.79	3.83	4.08	4.92	4.97	5.13	5.18	5.43
	6H	3.49	3.55	3.75	3.78	4.06	4.83	4.89	5.09	5.13	5.40
	8H	3.48	3.53	3.74	3.78	4.05	4.82	4.87	5.08	5.12	5.40
	12H	3.46	3.51	3.73	3.77	4.05	4.81	4.86	5.08	5.11	5.39
12H	4H	3.50	3.56	3.75	3.79	4.06	4.85	4.90	5.10	5.14	5.41
	6H	3.48	3.53	3.74	3.78	4.05	4.82	4.87	5.08	5.12	5.40

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

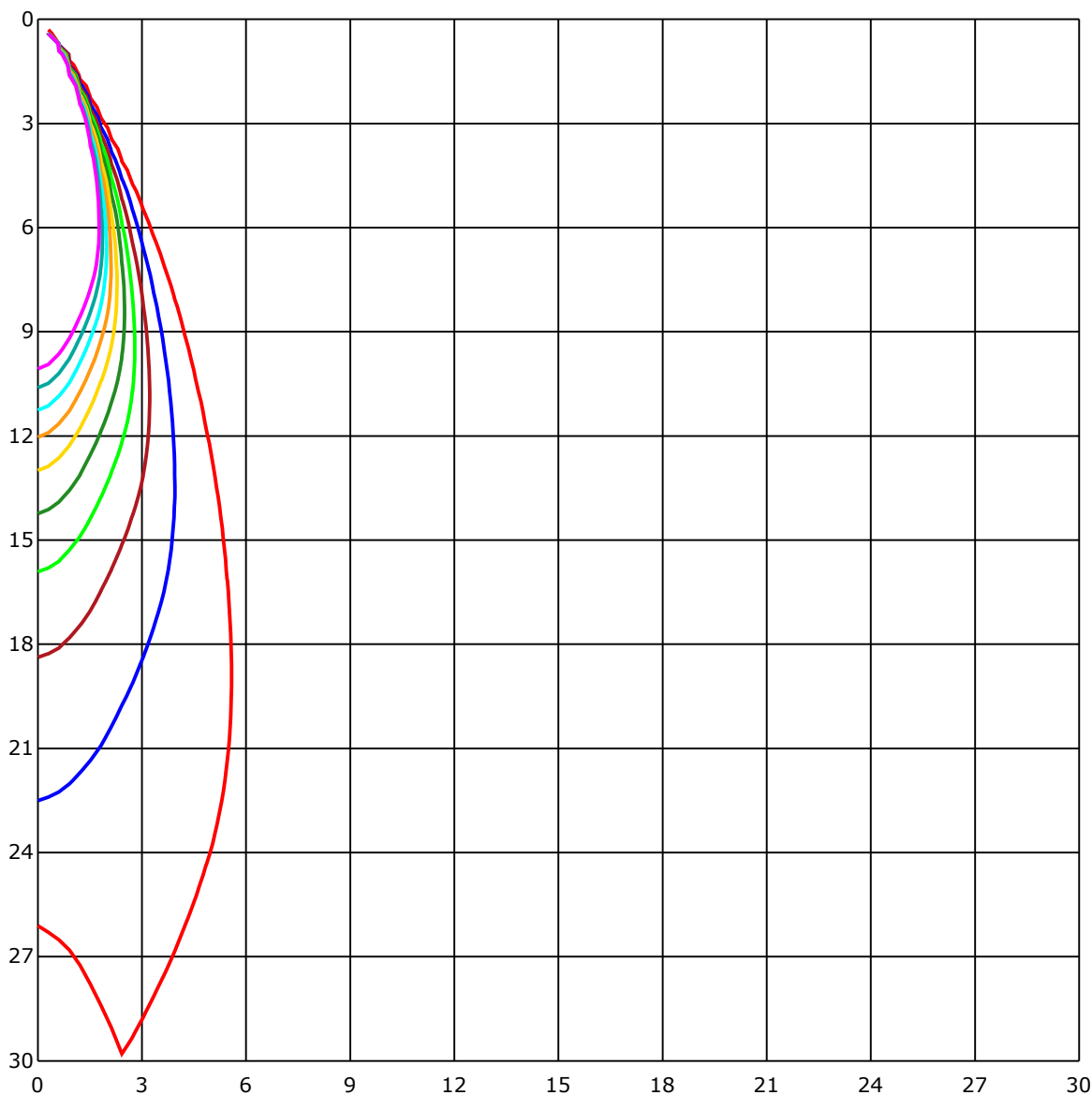
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

SPACE ISOLX DIAGRAM



Unit of illumination:lx

9.547

8.592

7.638

6.683

5.728

4.773

3.819

2.864

1.909

0.955

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.71 m

Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	967.39	959.46	956.9	966.98	967.39	959.46	956.9	966.98	967.39	
G1	955.95	949.2	967.21	966.67	969.5	959.96	944.79	964.87	955.95	
G2	939.29	932.45	962.98	945.96	962.8	952.08	919.44	953.66	939.29	
G3	909.67	904.62	952.89	923.49	945.87	934.66	889.41	933.71	909.67	
G4	878.65	871.53	933.17	890.71	922.36	913.45	854.02	907.1	878.65	
G5	843.98	834.75	906.11	856.18	892.24	880.76	817.68	877.25	843.98	
G6	802.87	795.04	872.88	816.65	856.22	847.04	776.98	840.24	802.87	
G7	762.21	755.64	837.63	776.76	816.83	808.86	738.08	802.37	762.21	
G8	724.3	715.93	796.93	735.47	777.12	770.36	697.96	763.25	724.3	
G9	684.55	676.62	758.84	697.33	736.41	729.62	661.4	726.06	684.55	
G10	647.94	640.56	719.26	657.89	699.13	692.02	624.26	688.24	647.94	
G11	609.4	604.09	680.67	619.35	659.15	653.39	586.71	653.3	609.4	
G12	574.37	566.18	643.03	581.89	623.18	618.63	550.6	616.47	574.37	
G13	534.26	527.82	604.27	542.18	584.19	581.35	509.13	579.96	534.26	
G14	493.51	485.49	565.64	496.84	544.25	542.5	466.04	539.39	493.51	
G15	450.11	443.22	525.34	452.81	501.48	499.99	422.87	498.51	450.11	
G16	406.97	398.6	483.2	404.63	455.19	456.77	377.3	455.24	406.97	
G17	362.35	354.52	439.48	358.62	411.48	411.52	333.58	410.39	362.35	
G18	319.94	312.83	393.24	313.23	363.66	367.17	291.94	364.92	319.94	
G19	279.51	272.8	348.04	271.41	319.27	322.51	253.17	322.87	279.51	
G20	243.45	237.05	305.71	233.9	277.98	281.31	217.15	281.63	243.45	
G21	209.72	203.87	268.34	198.96	240.79	242.86	183.88	244.62	209.72	
G22	178.21	173.21	231.15	167.8	206.12	208.28	153.8	209.72	178.21	
G23	149.48	145.88	197.97	140.21	173.97	175.64	128.0	177.49	149.48	
G24	126.07	122.33	166.95	116.21	146.19	146.91	105.0	149.66	126.07	
G25	104.82	100.9	140.21	95.09	122.2	122.47	84.69	125.75	104.82	
G26	86.27	82.71	116.7	76.14	101.26	100.04	67.27	103.42	86.27	
G27	70.15	66.01	95.27	60.06	81.99	81.58	52.14	84.6	70.15	
G28	55.11	51.6	77.04	46.19	65.96	65.01	39.89	68.17	55.11	
G29	42.28	38.32	61.23	35.12	52.41	51.37	30.57	54.43	42.28	
G30	31.16	28.23	47.91	26.43	41.2	39.94	23.01	42.46	31.16	
G31	22.2	20.71	37.05	19.95	32.15	31.43	16.93	33.5	22.2	
G32	16.07	14.95	29.31	14.68	25.62	24.76	12.38	26.34	16.07	
G33	11.21	10.36	22.92	10.45	20.13	19.54	8.42	20.76	11.21	
G34	7.16	6.75	17.74	6.89	15.62	15.26	5.27	16.03	7.16	
G35	4.1	3.83	13.46	4.14	11.89	11.66	2.75	12.02	4.1	
G36	1.94	1.85	10.18	1.85	9.09	8.91	1.08	8.87	1.94	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

Report No.:

Test Time: 2024/8/19 10:53:47

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	0.36	0.27	7.56	0.54	6.62	6.62	0.0	6.39	0.36	
G38	0.0	0.0	5.58	0.0	5.22	5.18	0.0	4.95	0.0	
G39	0.0	0.0	4.59	0.0	4.41	4.32	0.0	4.28	0.0	
G40	0.0	0.0	4.01	0.0	3.92	3.78	0.0	3.74	0.0	
G41	0.0	0.0	3.74	0.0	3.47	3.47	0.0	3.24	0.0	
G42	0.0	0.0	3.29	0.0	3.24	3.29	0.0	3.02	0.0	
G43	0.0	0.0	3.24	0.0	3.02	2.93	0.0	2.75	0.0	
G44	0.0	0.0	2.84	0.0	2.7	2.75	0.0	2.52	0.0	
G45	0.0	0.0	2.75	0.0	2.57	2.52	0.0	2.34	0.0	
G46	0.0	0.0	2.39	0.0	2.3	2.3	0.0	2.07	0.0	
G47	0.0	0.0	2.16	0.0	2.07	2.12	0.0	1.89	0.0	
G48	0.0	0.0	2.07	0.0	2.03	1.98	0.0	1.71	0.0	
G49	0.0	0.0	1.98	0.0	1.89	1.85	0.0	1.85	0.0	
G50	0.0	0.0	1.85	0.0	1.94	1.71	0.0	1.62	0.0	
G51	0.0	0.0	1.85	0.0	1.62	1.53	0.0	1.58	0.0	
G52	0.0	0.0	1.67	0.0	1.35	1.4	0.0	1.4	0.0	
G53	0.0	0.0	1.67	0.0	1.4	1.22	0.0	1.26	0.0	
G54	0.0	0.0	1.31	0.0	1.17	1.13	0.0	1.08	0.0	
G55	0.0	0.0	1.17	0.0	0.95	0.99	0.0	1.13	0.0	
G56	0.0	0.0	1.08	0.0	0.99	0.77	0.0	0.81	0.0	
G57	0.0	0.0	0.99	0.0	0.63	0.77	0.0	0.77	0.0	
G58	0.0	0.0	0.9	0.0	0.63	0.63	0.0	0.5	0.0	
G59	0.0	0.0	0.63	0.0	0.5	0.5	0.0	0.45	0.0	
G60	0.0	0.0	0.45	0.0	0.41	0.36	0.0	0.41	0.0	
G61	0.0	0.0	0.36	0.0	0.32	0.18	0.0	0.27	0.0	
G62	0.0	0.0	0.18	0.0	0.23	0.14	0.0	0.14	0.0	
G63	0.0	0.0	0.18	0.0	0.18	0.09	0.0	0.14	0.0	
G64	0.0	0.0	0.0	0.0	0.18	0.05	0.0	0.14	0.0	
G65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	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: 25

Operators: QC01

Test Date: 2024/8/19 10:53:47

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.71 m

Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks: