

Report No.:

Test Time: 2024/7/3 14:39:06

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT055-24°-8.6W
Lamp Type:
Luminous Width: 50 mm
Luminous Length: 50 mm
Luminous Height: 50 mm

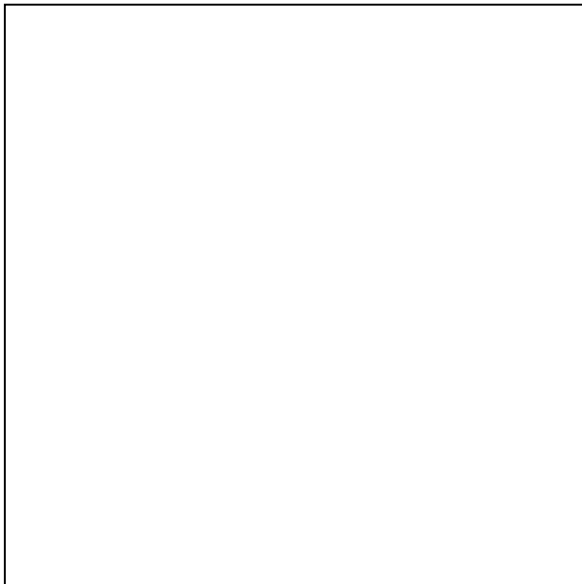
Voltage(V): 219.90 V
Current(A): 0.0420 A
Power(W): 8.58 W
Power Factor: 0.9270
Lamp Luminous Flux: 893.79

Photometric Results

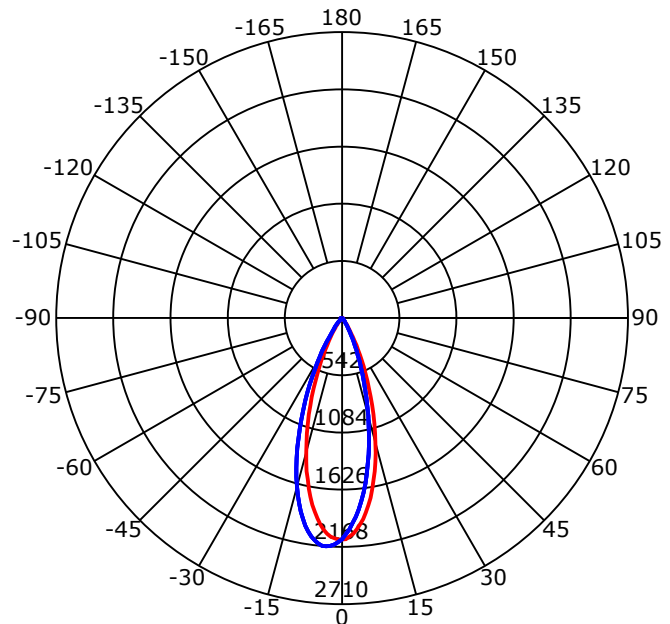
CIE Class: Direct
Luminaire Luminous Flux: 893.7859 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.17 lm/W
Beam Angle(50%) C0-180,C90-270: 35.0,35.0
Field Angle(10%) C0-180,C90-270: 61.0,61.1
S/MH C0-180,C90-270: 0.573,0.611

Max. Intensity: 2168.32 cd
Max.Intensity Angle: C=270 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2098.70 cd
Effective Luminous Flux: 793.70 lm
ERP(ϕ use)(120deg): 887.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 35.0 deg,35.0 deg

C0-180 — C90-270 —

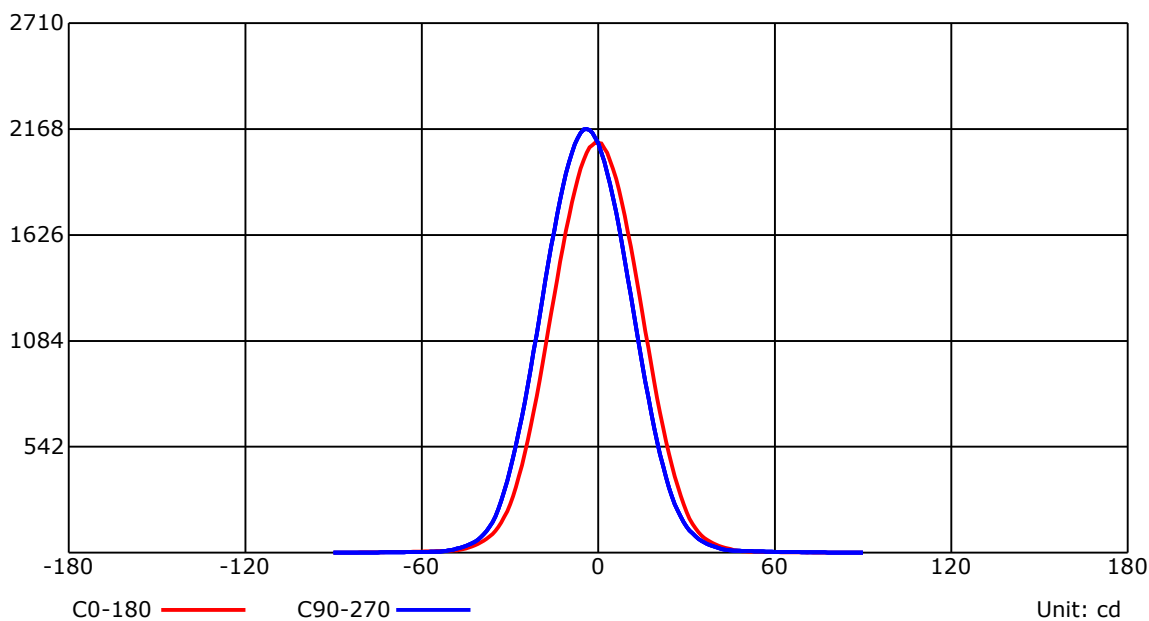
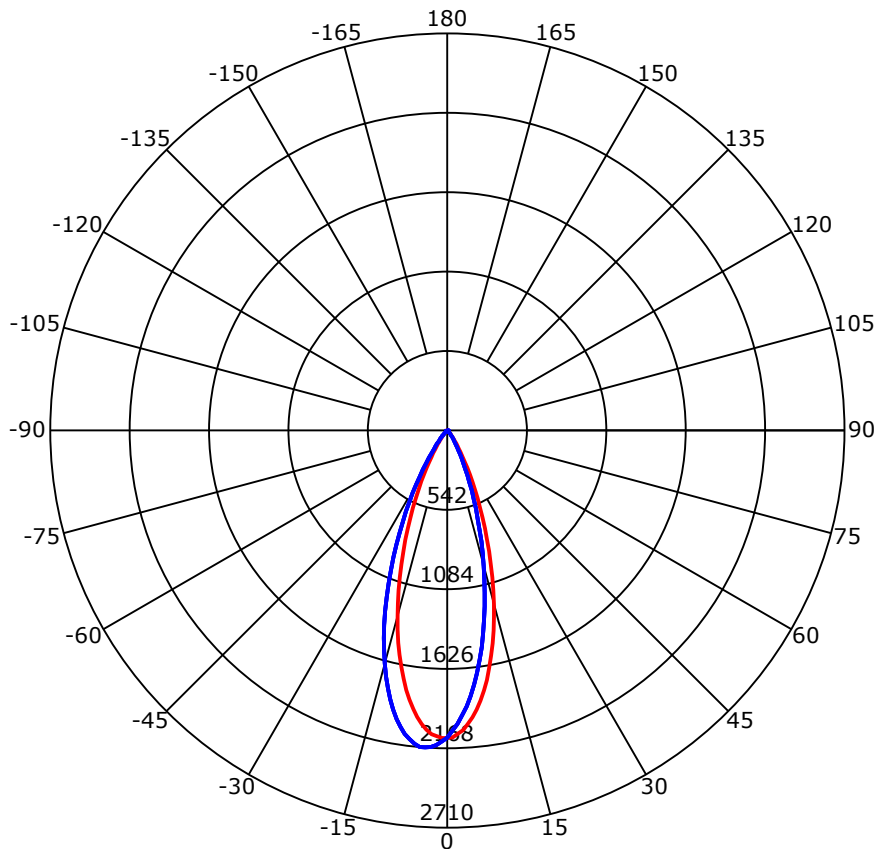
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



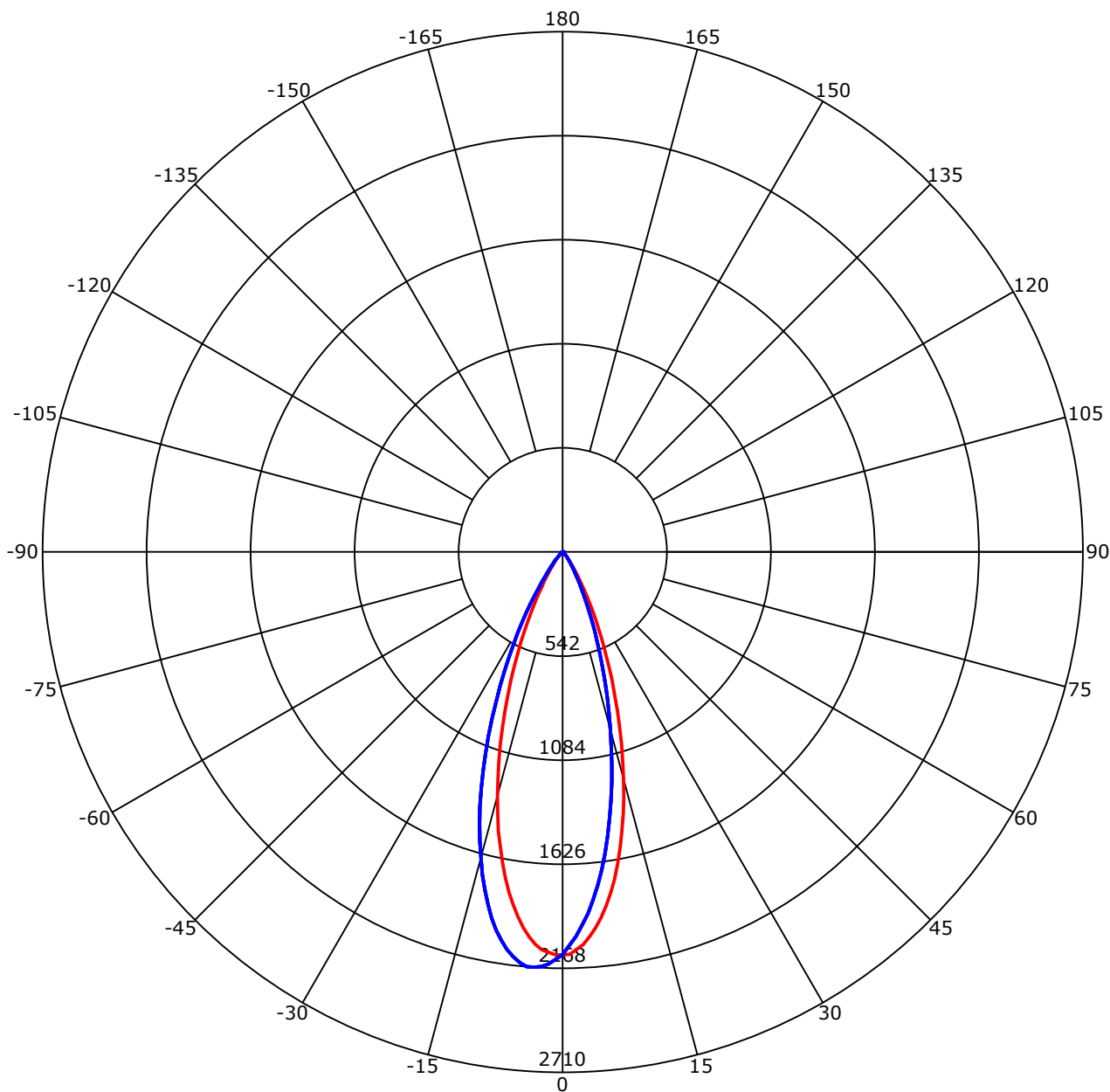
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Luminous Intensity Distribution Curve



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: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
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Humidity: 60
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Remarks:

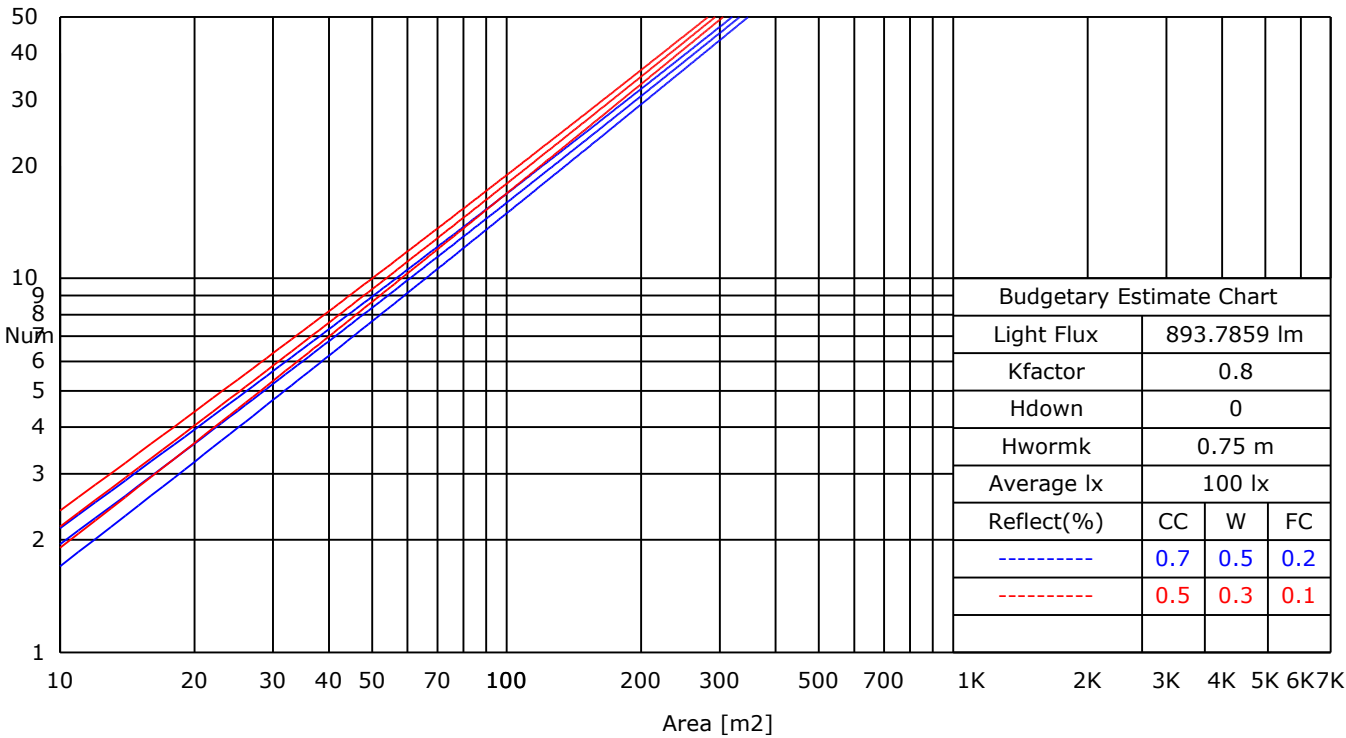
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UTILIZATION FACTORS TABLE

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

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



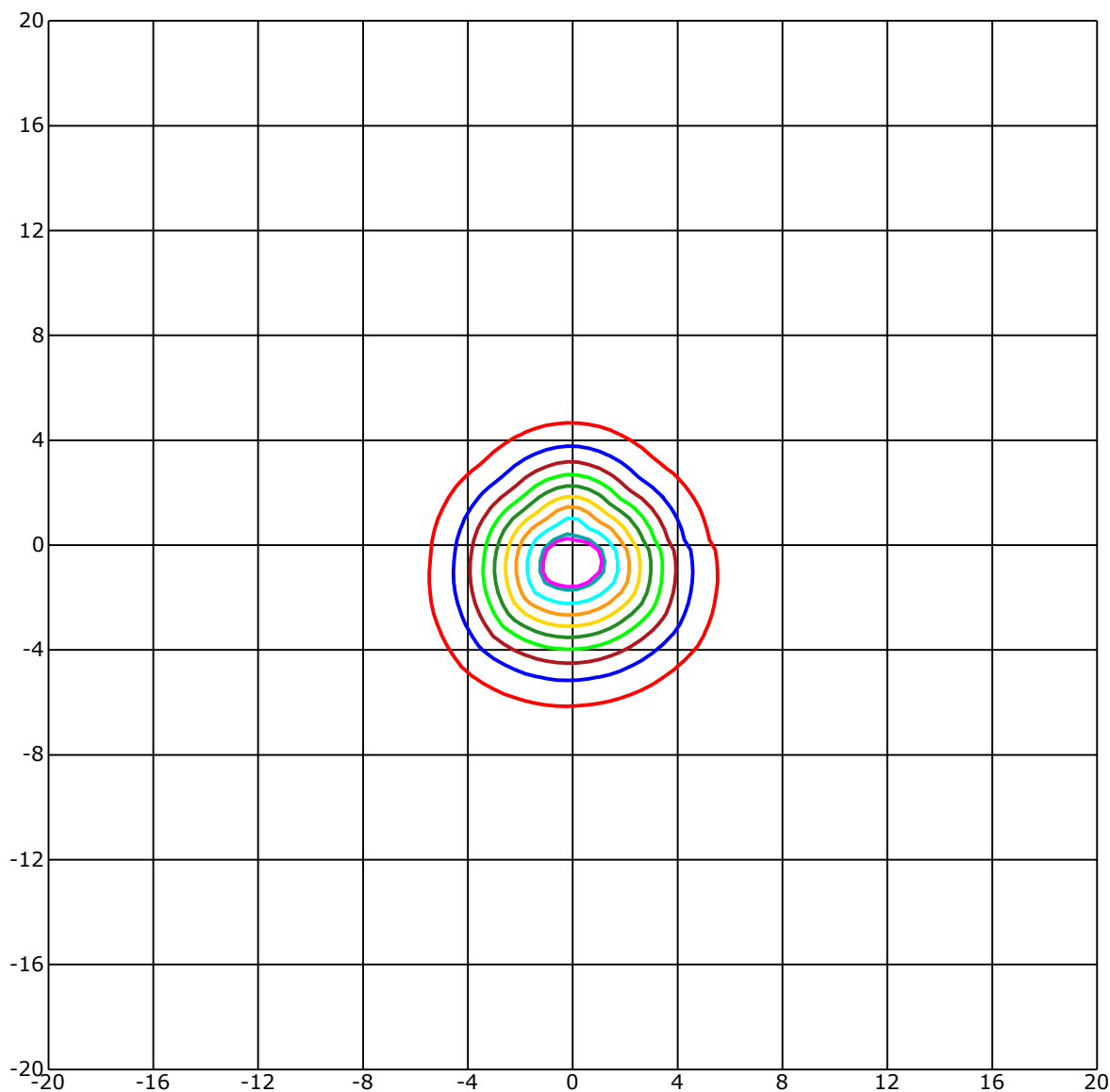
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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ISOLX DIAGRAM



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

19.817(92%Emax)	10.77(50%Emax)
19.386(90%Emax)	8.616(40%Emax)
17.232(80%Emax)	6.462(30%Emax)
15.078(70%Emax)	4.308(20%Emax)
12.924(60%Emax)	2.154(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:39:06

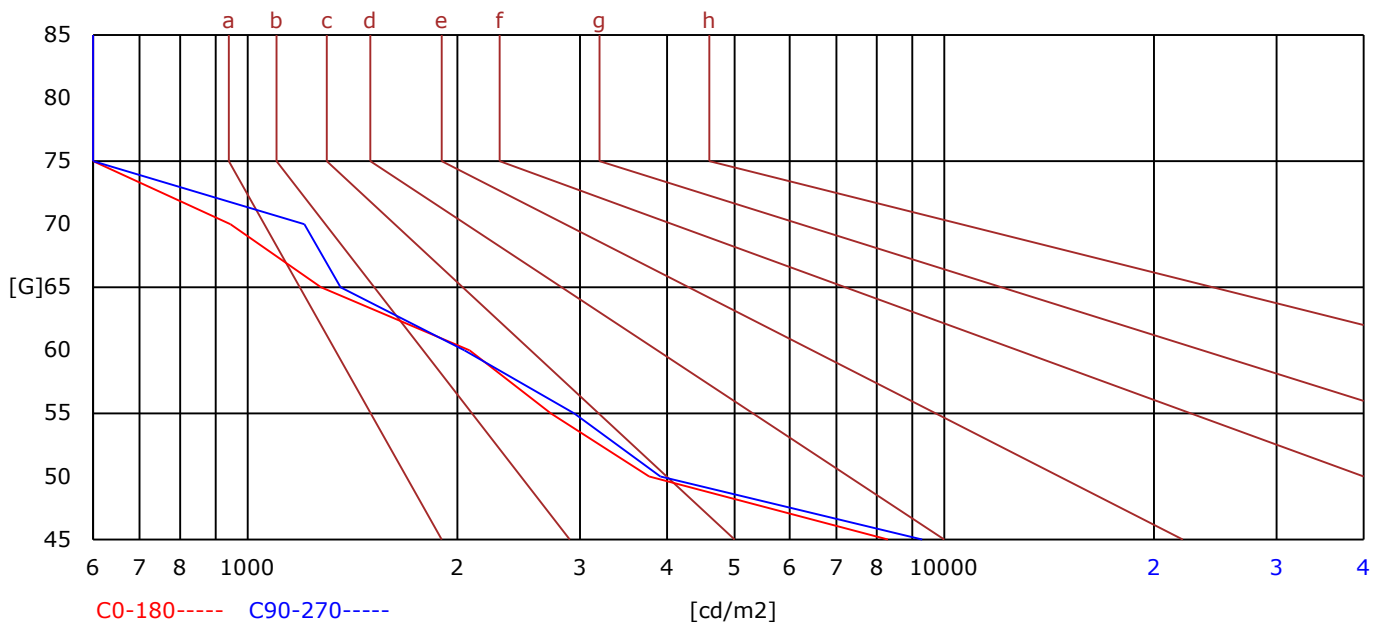
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8304	3771	2724	2083	1275	945	69	0	0
C90	9294	3911	2943	2047	1360	1207	69	0	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



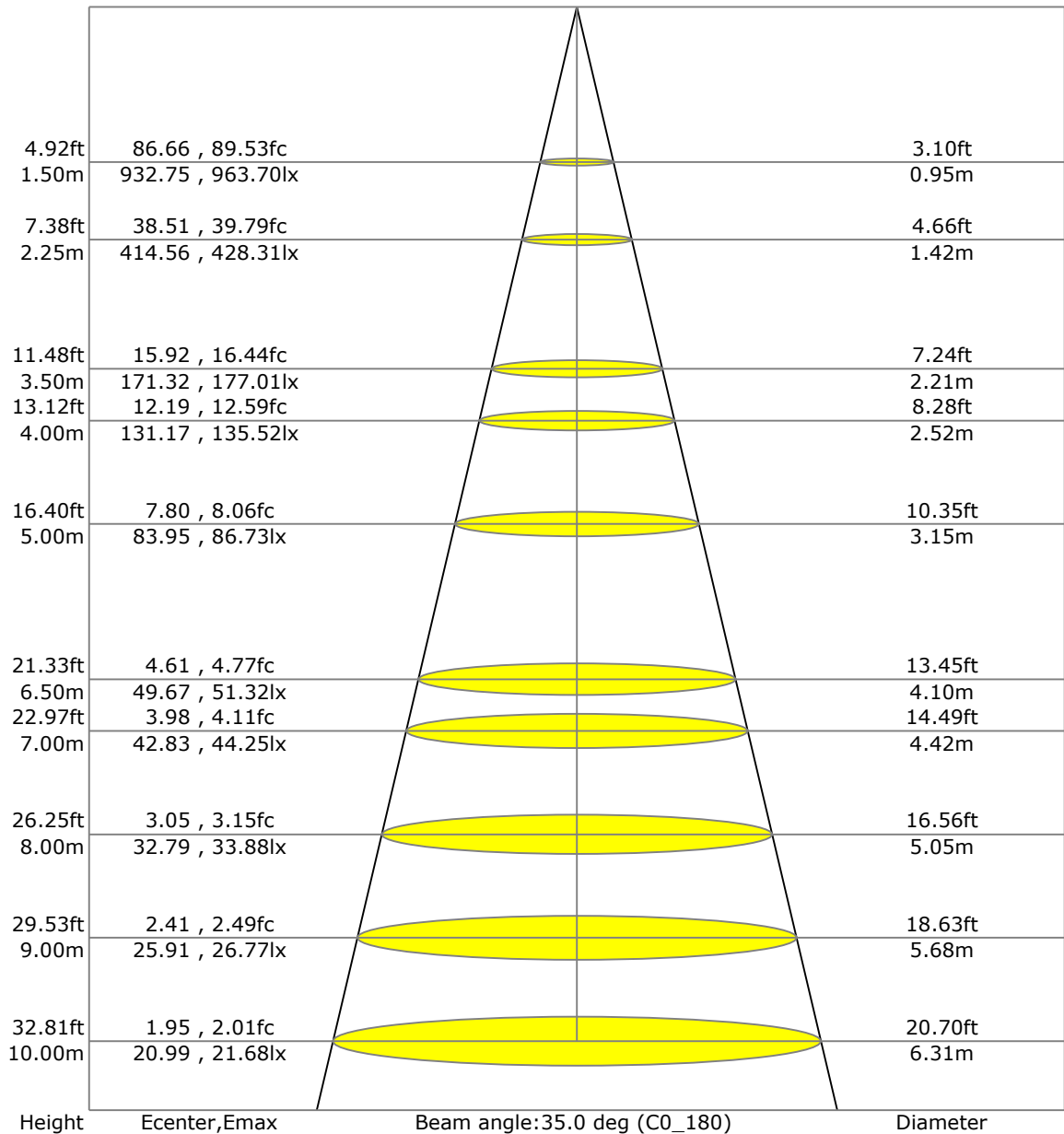
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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	7.27	7.32	7.47	7.51	7.75	7.36	7.42	7.56	7.60	7.85
	3H	7.26	7.31	7.47	7.51	7.75	7.35	7.40	7.55	7.59	7.84
	4H	7.25	7.30	7.46	7.50	7.75	7.33	7.39	7.54	7.58	7.83
	6H	7.24	7.29	7.45	7.49	7.74	7.32	7.37	7.53	7.57	7.82
	8H	7.23	7.28	7.45	7.48	7.74	7.31	7.36	7.53	7.57	7.82
	12H	7.22	7.27	7.44	7.48	7.73	7.30	7.35	7.52	7.56	7.81
4H	2H	7.35	7.40	7.56	7.60	7.85	7.61	7.67	7.82	7.86	8.11
	3H	7.34	7.39	7.56	7.60	7.85	7.59	7.65	7.82	7.85	8.11
	4H	7.32	7.37	7.55	7.59	7.85	7.58	7.63	7.81	7.84	8.10
	6H	7.30	7.35	7.54	7.57	7.84	7.55	7.61	7.79	7.83	8.09
	8H	7.29	7.34	7.53	7.57	7.83	7.54	7.59	7.79	7.82	8.09
	12H	7.28	7.33	7.53	7.56	7.83	7.53	7.58	7.78	7.81	8.08
8H	4H	7.34	7.39	7.56	7.60	7.85	7.65	7.71	7.87	7.91	8.16
	6H	7.28	7.32	7.53	7.56	7.84	7.59	7.64	7.84	7.88	8.15
	8H	7.26	7.31	7.52	7.55	7.83	7.57	7.62	7.84	7.87	8.14
	12H	7.24	7.29	7.51	7.54	7.82	7.56	7.60	7.83	7.86	8.14
12H	4H	7.29	7.34	7.54	7.57	7.84	7.60	7.65	7.85	7.88	8.15
	6H	7.26	7.31	7.52	7.55	7.83	7.57	7.62	7.84	7.87	8.14

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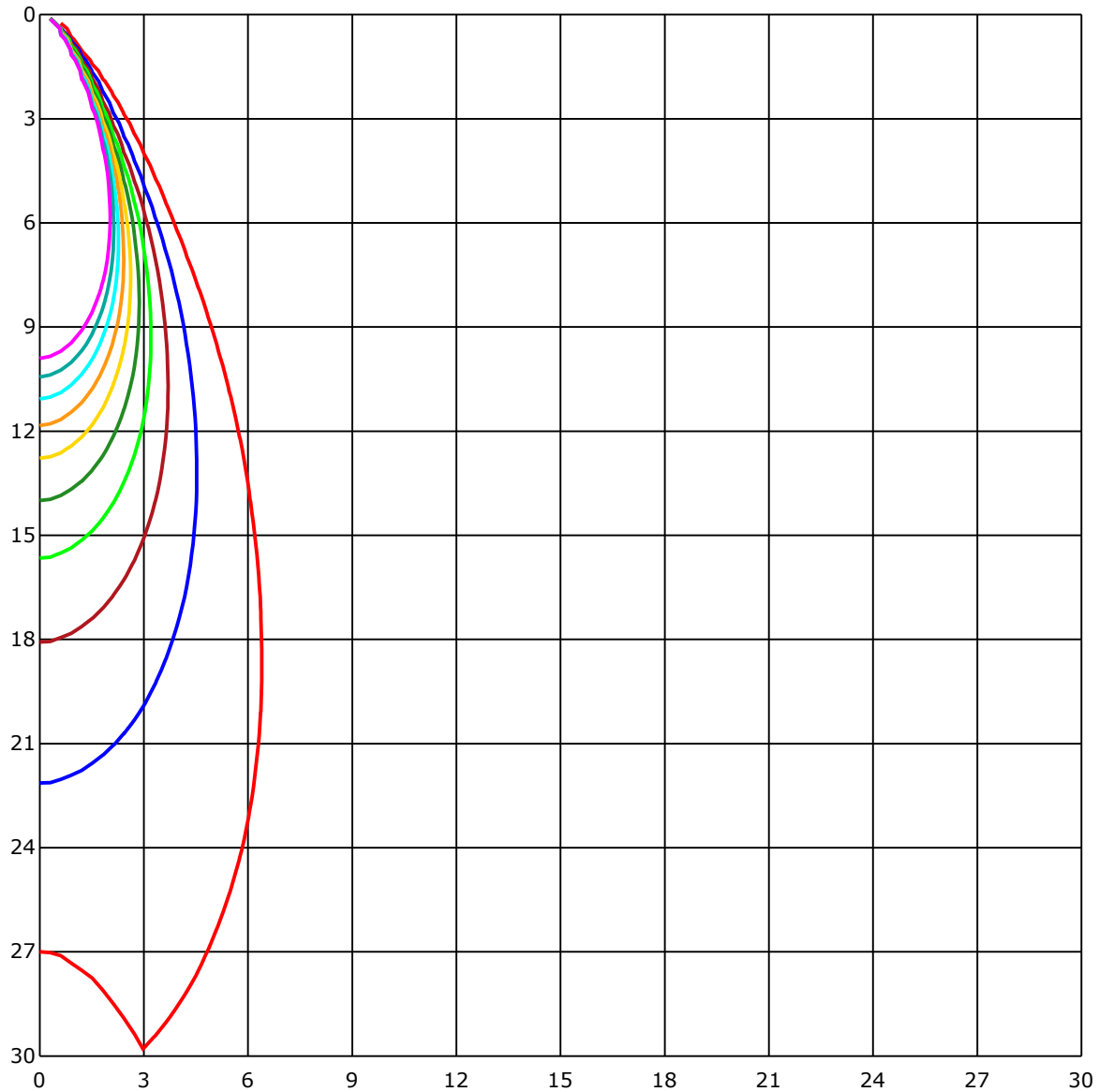
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

21.414

19.273

17.131

14.99

12.848

10.707

8.566

6.424

4.283

2.141

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2098.7	2046.4	2096.14	2049.68	2098.7	2046.4	2096.14	2049.68	2098.7	
G1	2095.51	1992.98	2047.97	2013.54	2099.19	2080.34	2122.31	2082.81	2095.51	
G2	2070.06	1942.57	2003.49	1965.73	2086.89	2115.98	2148.08	2102.69	2070.06	
G3	2047.07	1879.54	1944.55	1913.66	2075.53	2132.54	2162.94	2118.58	2047.07	
G4	2006.45	1814.54	1887.18	1846.69	2047.97	2149.33	2168.32	2119.75	2006.45	
G5	1964.7	1736.7	1818.76	1780.65	2011.7	2157.01	2167.47	2122.8	1964.7	
G6	1914.11	1661.83	1743.48	1706.31	1966.41	2147.81	2149.38	2097.08	1914.11	
G7	1856.29	1579.86	1667.53	1631.44	1913.62	2133.35	2122.22	2075.76	1856.29	
G8	1791.69	1494.84	1584.03	1549.2	1854.41	2109.96	2091.47	2036.97	1791.69	
G9	1724.23	1403.94	1497.04	1465.3	1793.4	2073.74	2047.79	1994.91	1724.23	
G10	1646.48	1319.05	1407.3	1381.27	1721.22	2031.81	1999.58	1941.27	1646.48	
G11	1566.8	1226.53	1316.62	1291.98	1647.37	1978.48	1941.0	1887.85	1566.8	
G12	1484.83	1138.23	1226.98	1200.04	1565.63	1926.23	1875.73	1826.57	1484.83	
G13	1400.12	1044.99	1135.85	1110.76	1489.36	1857.86	1805.79	1757.94	1400.12	
G14	1315.14	955.8	1047.82	1021.88	1400.34	1786.67	1732.8	1681.49	1315.14	
G15	1225.86	873.25	960.42	937.3	1316.27	1713.45	1648.81	1605.58	1225.86	
G16	1134.15	783.91	875.18	850.98	1225.77	1635.25	1568.1	1523.34	1134.15	
G17	1048.36	704.95	793.3	771.88	1140.7	1556.79	1483.3	1443.8	1048.36	
G18	960.2	632.1	712.99	693.42	1052.27	1471.85	1396.03	1353.66	960.2	
G19	873.33	564.09	637.12	620.78	965.27	1376.96	1301.99	1267.83	873.33	
G20	791.01	499.09	568.85	555.92	879.75	1288.25	1209.83	1176.25	791.01	
G21	715.86	441.31	503.76	491.73	800.57	1193.67	1118.3	1092.26	715.86	
G22	638.96	387.36	443.56	432.83	720.08	1103.76	1031.62	1002.8	638.96	
G23	569.79	337.62	384.89	379.68	646.64	1012.45	939.68	918.45	569.79	
G24	506.76	293.49	333.85	330.44	575.89	925.99	855.69	835.58	506.76	
G25	447.55	255.07	288.37	285.95	510.94	841.55	772.33	755.72	447.55	
G26	390.32	221.44	247.79	247.3	447.28	759.36	696.69	682.6	390.32	
G27	338.43	192.31	213.45	215.97	389.96	682.69	620.74	609.52	338.43	
G28	289.9	167.26	183.56	186.29	336.05	609.79	551.79	541.06	289.9	
G29	247.43	144.73	156.89	161.07	289.18	541.37	486.65	478.98	247.43	
G30	208.69	124.84	133.46	138.89	247.7	476.1	425.74	419.45	208.69	
G31	174.53	107.38	113.84	120.35	211.66	418.06	367.92	367.65	174.53	
G32	146.66	93.42	97.95	103.83	181.62	367.02	313.83	319.3	146.66	
G33	124.93	80.04	83.94	89.91	155.09	319.48	266.6	278.86	124.93	
G34	105.99	69.53	71.46	77.35	131.3	277.11	223.78	242.85	105.99	
G35	89.6	60.96	61.45	67.11	112.05	238.41	185.49	211.34	89.6	
G36	75.82	52.93	53.1	58.04	95.57	205.82	155.72	184.32	75.82	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	65.18	45.38	44.89	50.82	82.28	177.0	131.89	159.58	65.18	
G38	55.84	39.14	38.52	44.31	70.21	153.57	110.7	139.38	55.84	
G39	48.03	34.57	32.81	39.1	60.69	132.78	93.46	121.56	48.03	
G40	40.72	30.61	27.65	34.43	52.34	115.59	78.96	105.4	40.72	
G41	34.66	26.71	22.62	30.66	44.8	100.01	66.8	90.86	34.66	
G42	30.03	23.34	17.96	26.53	38.29	86.23	56.83	78.92	30.03	
G43	25.68	20.25	14.72	22.89	32.23	74.7	48.12	69.04	25.68	
G44	21.32	17.37	12.84	19.39	26.98	64.91	40.67	60.56	21.32	
G45	17.73	14.68	11.76	16.43	22.22	56.56	34.79	54.14	17.73	
G46	14.36	12.43	10.82	13.65	17.82	50.37	29.54	47.67	14.36	
G47	11.13	10.32	10.28	11.13	14.41	44.13	24.96	42.02	11.13	
G48	8.75	8.75	9.74	9.29	12.48	40.22	21.1	37.39	8.75	
G49	7.27	7.05	9.2	7.45	11.31	35.64	17.46	33.76	7.27	
G50	6.46	6.06	8.98	6.28	10.59	31.92	14.14	30.26	6.46	
G51	5.88	5.25	8.26	5.52	10.1	28.59	11.18	26.98	5.88	
G52	5.48	4.94	7.95	4.94	9.43	25.41	8.66	23.88	5.48	
G53	5.25	4.58	7.45	4.76	9.02	22.27	7.0	21.46	5.25	
G54	4.89	4.31	7.0	4.31	8.57	19.39	6.11	18.9	4.89	
G55	4.67	3.91	6.73	4.22	8.04	16.65	5.52	16.52	4.67	
G56	4.26	3.77	6.33	3.82	7.72	14.36	5.21	14.63	4.26	
G57	4.04	3.41	5.61	3.59	7.14	12.57	4.76	12.66	4.04	
G58	3.64	3.14	5.3	3.23	6.69	11.18	4.44	11.18	3.64	
G59	3.41	2.78	4.71	2.96	6.33	9.92	4.35	10.1	3.41	
G60	3.23	2.6	4.35	2.56	5.97	9.16	4.08	9.07	3.23	
G61	3.05	2.2	4.31	2.11	5.79	8.62	3.86	8.53	3.05	
G62	2.6	2.02	4.08	1.89	5.16	8.13	3.68	8.04	2.6	
G63	2.29	1.89	3.86	1.75	4.89	7.72	3.37	7.68	2.29	
G64	2.02	1.57	3.82	1.44	4.49	7.36	3.14	7.14	2.02	
G65	2.02	1.35	3.55	1.44	4.31	6.87	2.92	6.82	2.02	
G66	1.71	1.39	3.5	1.26	4.13	6.46	2.69	6.51	1.71	
G67	1.71	1.17	3.14	1.3	3.95	5.97	2.29	6.06	1.71	
G68	1.53	1.03	2.96	1.12	3.86	5.66	2.11	5.75	1.53	
G69	1.53	0.9	2.74	0.94	3.59	5.3	1.89	5.39	1.53	
G70	1.44	0.81	2.56	1.03	3.46	5.21	1.84	5.03	1.44	
G71	1.26	0.67	2.33	0.76	3.14	4.62	1.8	4.67	1.26	
G72	1.3	0.58	2.29	0.4	2.92	4.44	1.53	4.35	1.3	
G73	1.08	0.45	2.11	0.27	2.87	4.04	1.3	4.31	1.08	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Test Time: 2024/7/3 14:39:06

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: