

Report No.:

Test Time: 2024/5/23 14:59:49

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H74-60°-10.6W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 71 mm

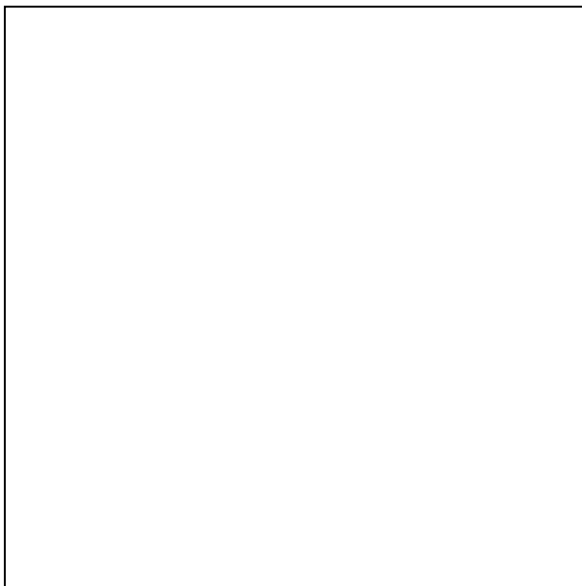
Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.63 W
Power Factor: 0.9180
Lamp Luminous Flux: 1149.10

Photometric Results

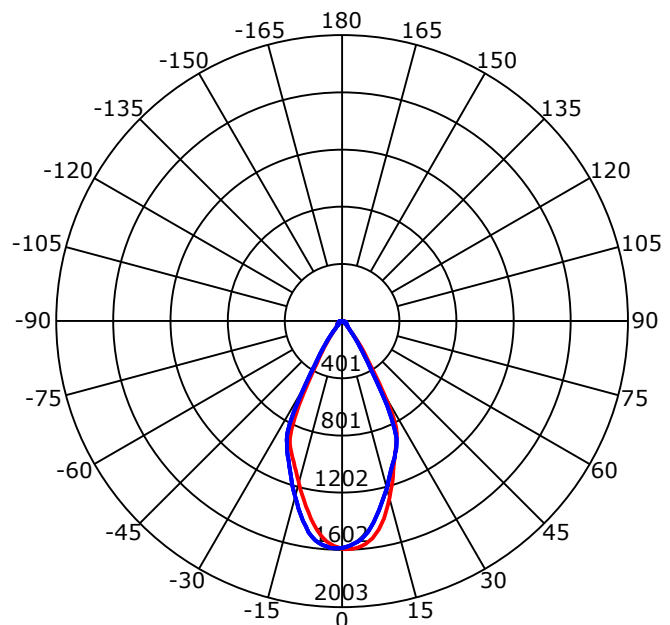
CIE Class: Direct
Luminaire Luminous Flux: 1149.103 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.10 lm/W
Beam Angle(50%) C0-180,C90-270: 53.0,53.6
Field Angle(10%) C0-180,C90-270: 74.7,74.4
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 1602.12 cd
Max.Intensity Angle: C=315 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1595.39 cd
Effective Luminous Flux: 1001.65 lm
ERP(ϕ use)(120deg): 1102.27 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.0 deg,53.6 deg

C0-180 — C90-270 —

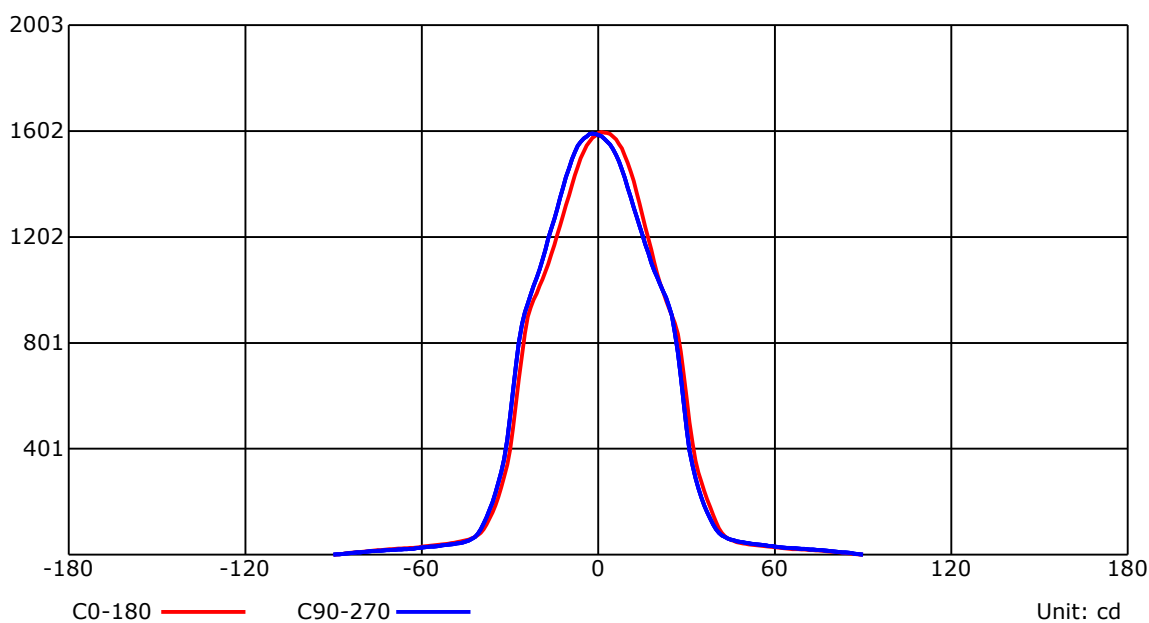
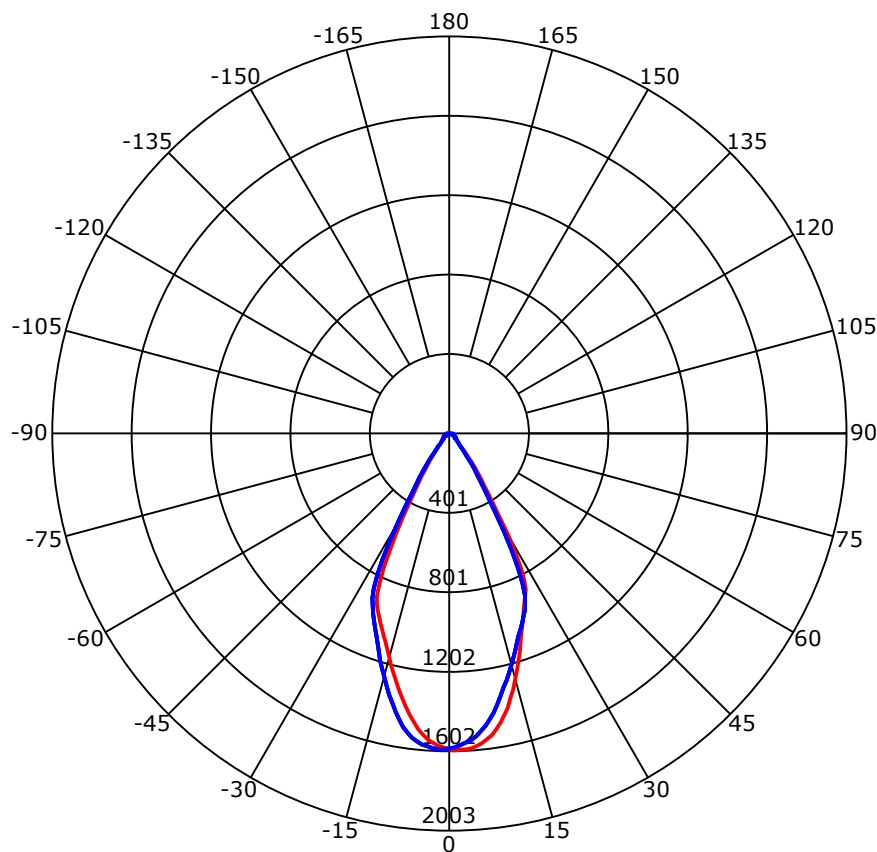
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:59:49

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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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/5/23 14:59:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

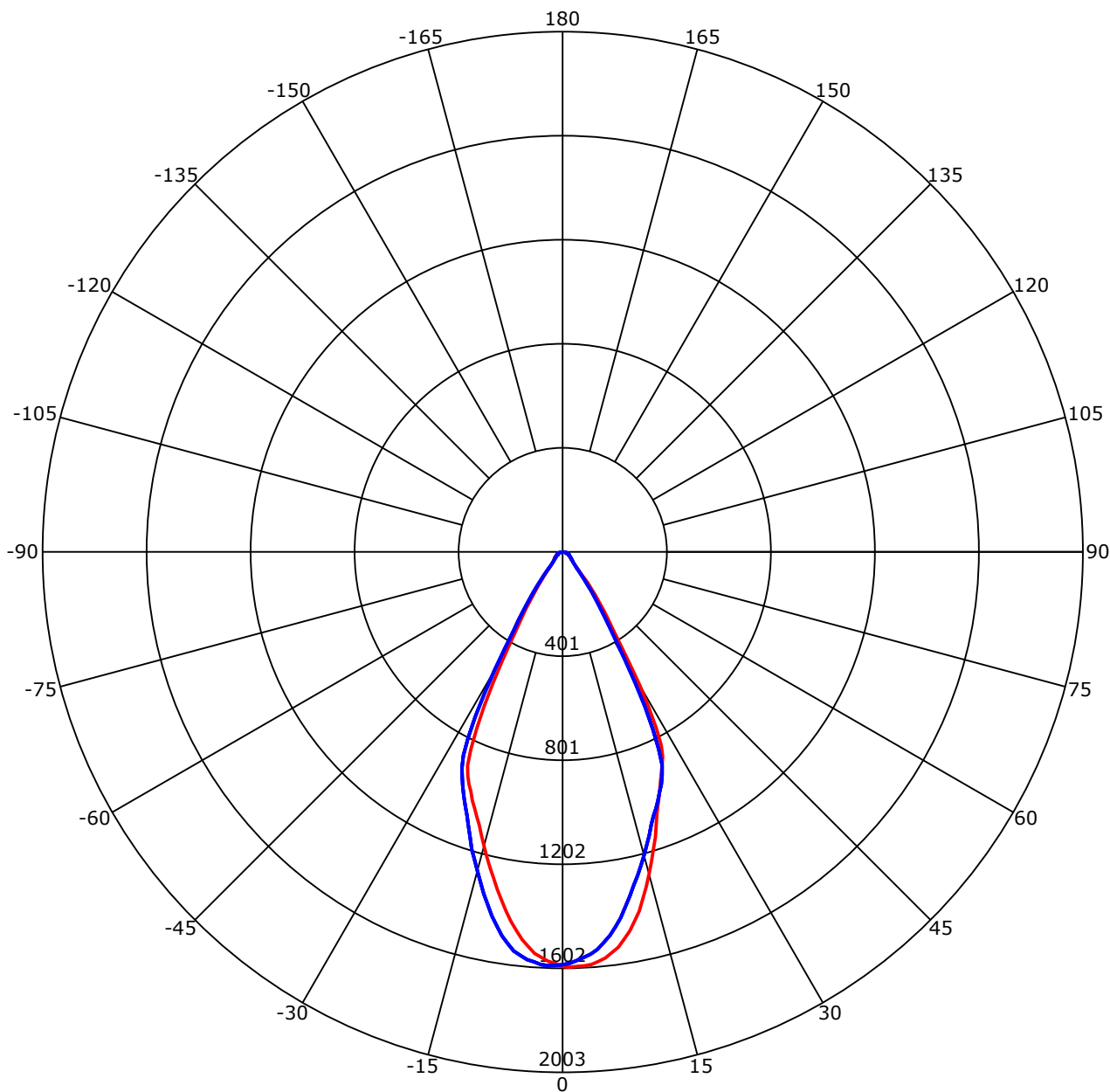
Test Distance: 6.7 m

Remarks:

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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: 2024/5/23 14:59:49

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

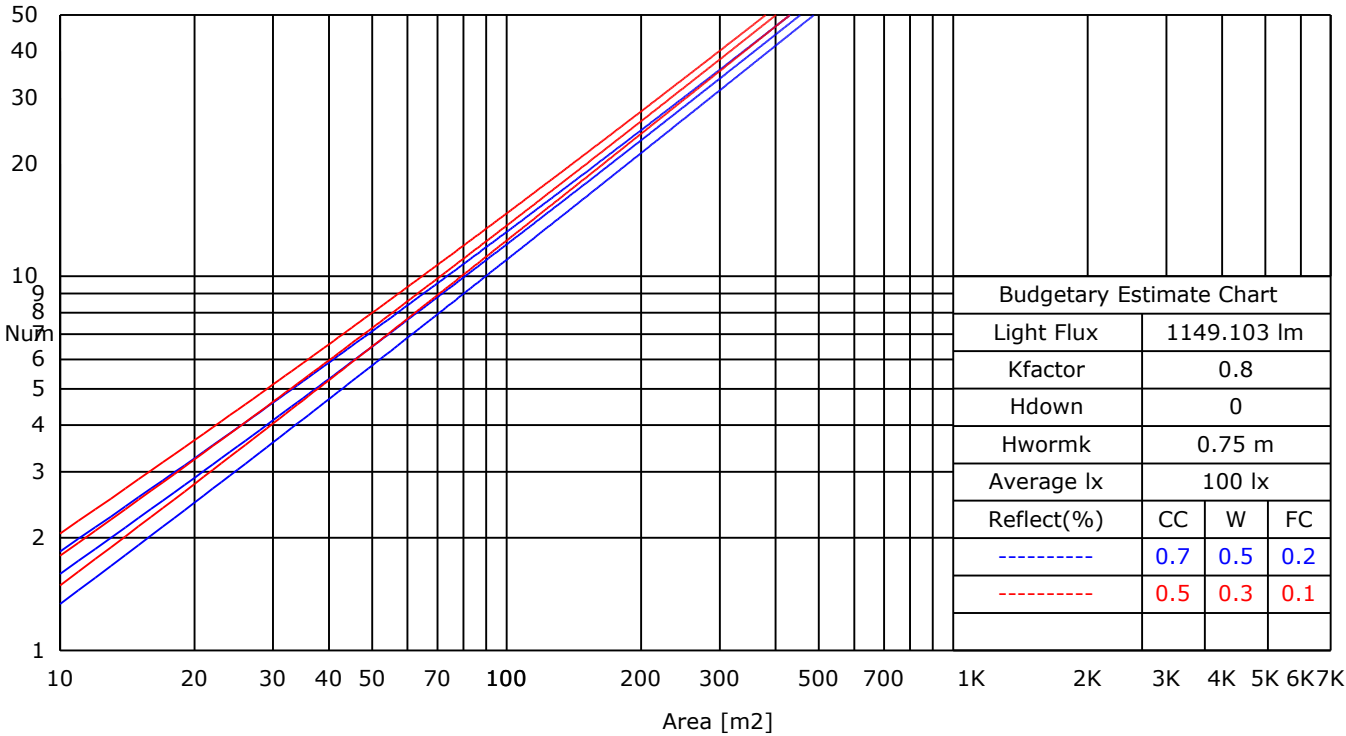
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UTILIZATION FACTORS TABLE

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	1.07	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.93	0.90	0.88	0.86	0.81
2	0.99	0.98	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.94	0.93	0.91	0.93	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.82	0.79	0.76	0.72
4	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.77	0.80	0.76	0.73	0.69
5	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
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	0.81	0.79	0.78	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.68	0.65	0.62
8	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.74	0.72	0.72	0.73	0.71	0.70	0.71	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



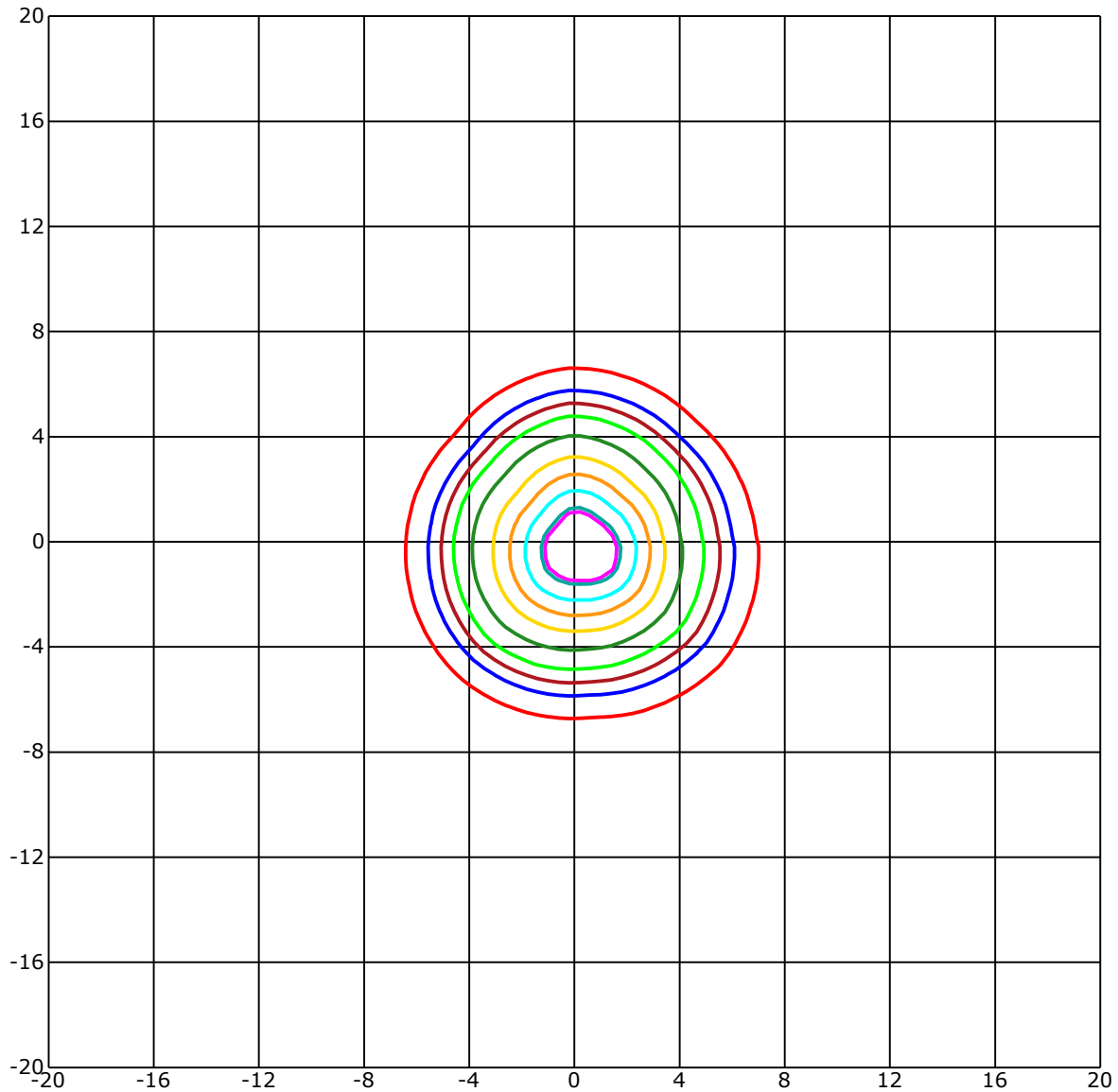
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:59:49

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)

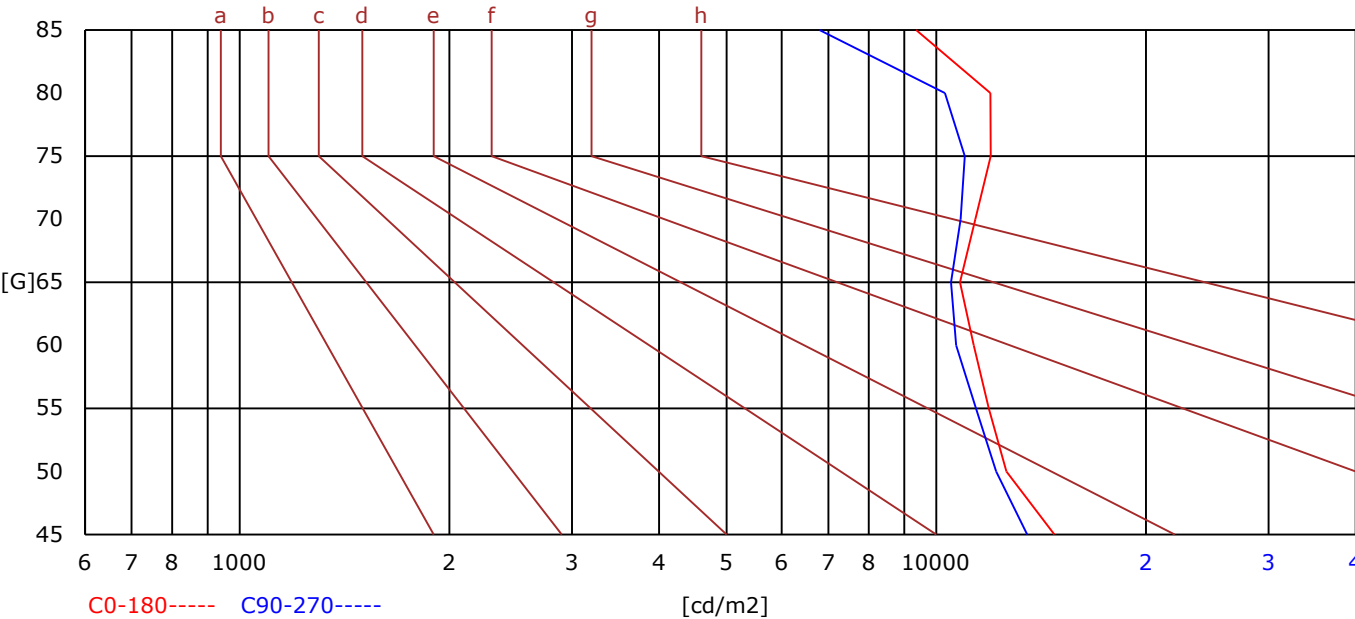
14.696(92%Emax)	7.987(50%Emax)
14.377(90%Emax)	6.39(40%Emax)
12.78(80%Emax)	4.792(30%Emax)
11.182(70%Emax)	3.195(20%Emax)
9.585(60%Emax)	1.597(10%Emax)

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Operators: QC01
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Humidity: 60
Test Distance: 6.7 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	14773	12611	11899	11320	10819	11382	11965	11964	9357
C90	13510	12188	11408	10679	10498	10843	10990	10287	6795
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



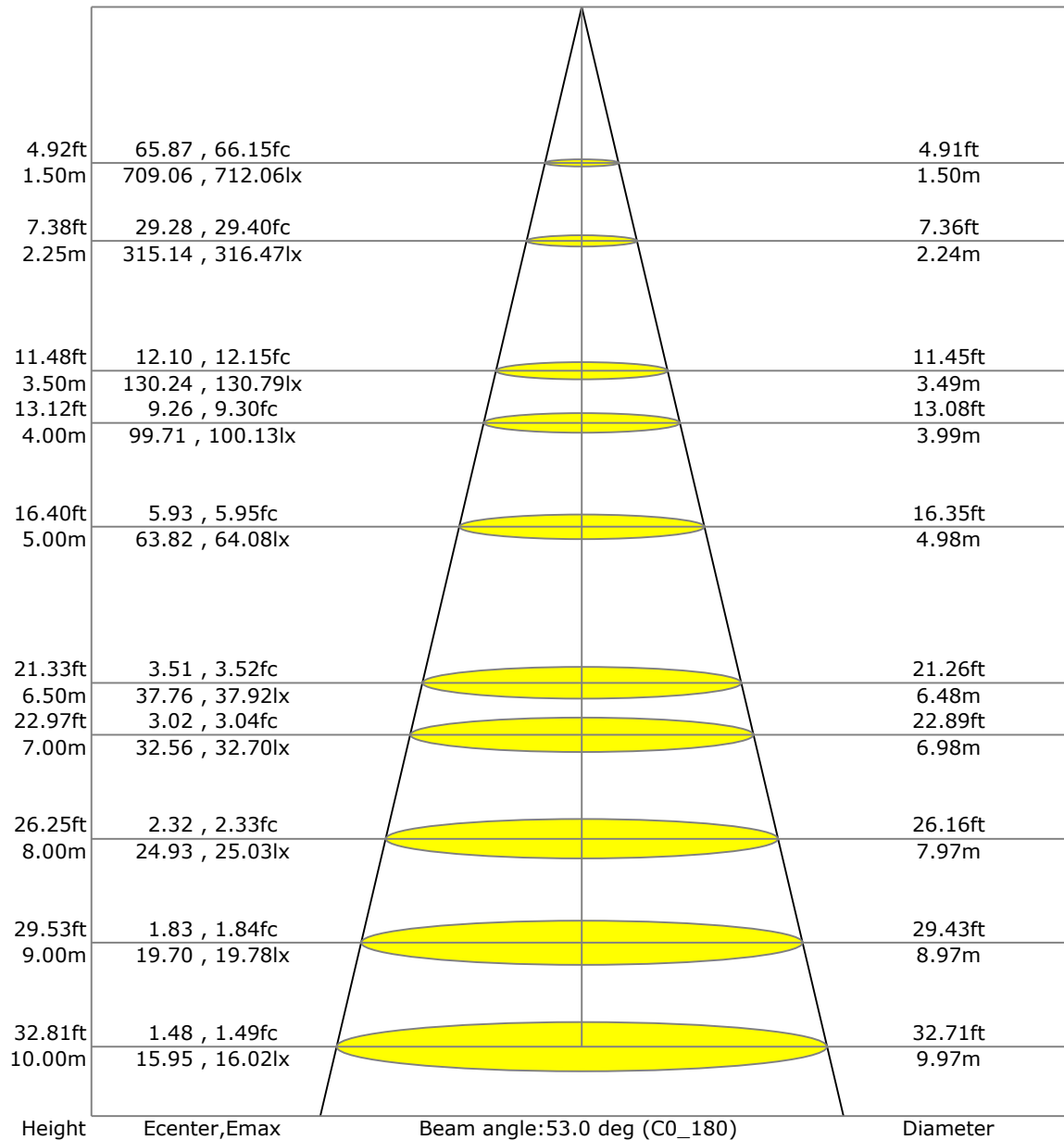
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:59:49

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: 2024/5/23 14:59:49

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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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	13.31	13.37	13.51	13.55	13.80	13.41	13.46	13.60	13.64	13.89
3H	13.40	13.45	13.61	13.65	13.89	13.48	13.53	13.68	13.72	13.97
4H	13.42	13.47	13.63	13.66	13.91	13.49	13.54	13.70	13.74	13.99
6H	13.41	13.46	13.62	13.66	13.91	13.48	13.53	13.70	13.73	13.98
8H	13.40	13.45	13.62	13.66	13.91	13.47	13.52	13.69	13.73	13.98
12H	13.39	13.44	13.61	13.65	13.90	13.46	13.51	13.68	13.72	13.97
4H 2H	14.70	14.75	14.91	14.95	15.20	14.95	15.01	15.16	15.20	15.45
3H	14.97	15.03	15.20	15.23	15.49	15.21	15.26	15.43	15.47	15.72
4H	15.05	15.11	15.28	15.32	15.58	15.28	15.33	15.51	15.54	15.80
6H	15.09	15.14	15.32	15.36	15.62	15.30	15.35	15.54	15.57	15.83
8H	15.09	15.13	15.33	15.36	15.63	15.30	15.35	15.54	15.57	15.84
12H	15.08	15.12	15.32	15.35	15.62	15.29	15.33	15.53	15.56	15.83
8H 4H	15.27	15.32	15.48	15.52	15.77	15.63	15.68	15.85	15.89	16.14
6H	15.93	15.98	16.19	16.21	16.49	16.27	16.32	16.53	16.56	16.83
8H	15.95	15.99	16.21	16.24	16.51	16.29	16.33	16.55	16.57	16.85
12H	15.95	15.99	16.22	16.25	16.53	16.28	16.32	16.55	16.58	16.86
12H 4H	16.00	16.05	16.25	16.28	16.55	16.44	16.48	16.69	16.72	16.99
6H	16.13	16.17	16.39	16.42	16.69	16.56	16.60	16.82	16.85	17.13

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Humidity: 60
Test Distance: 6.7 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

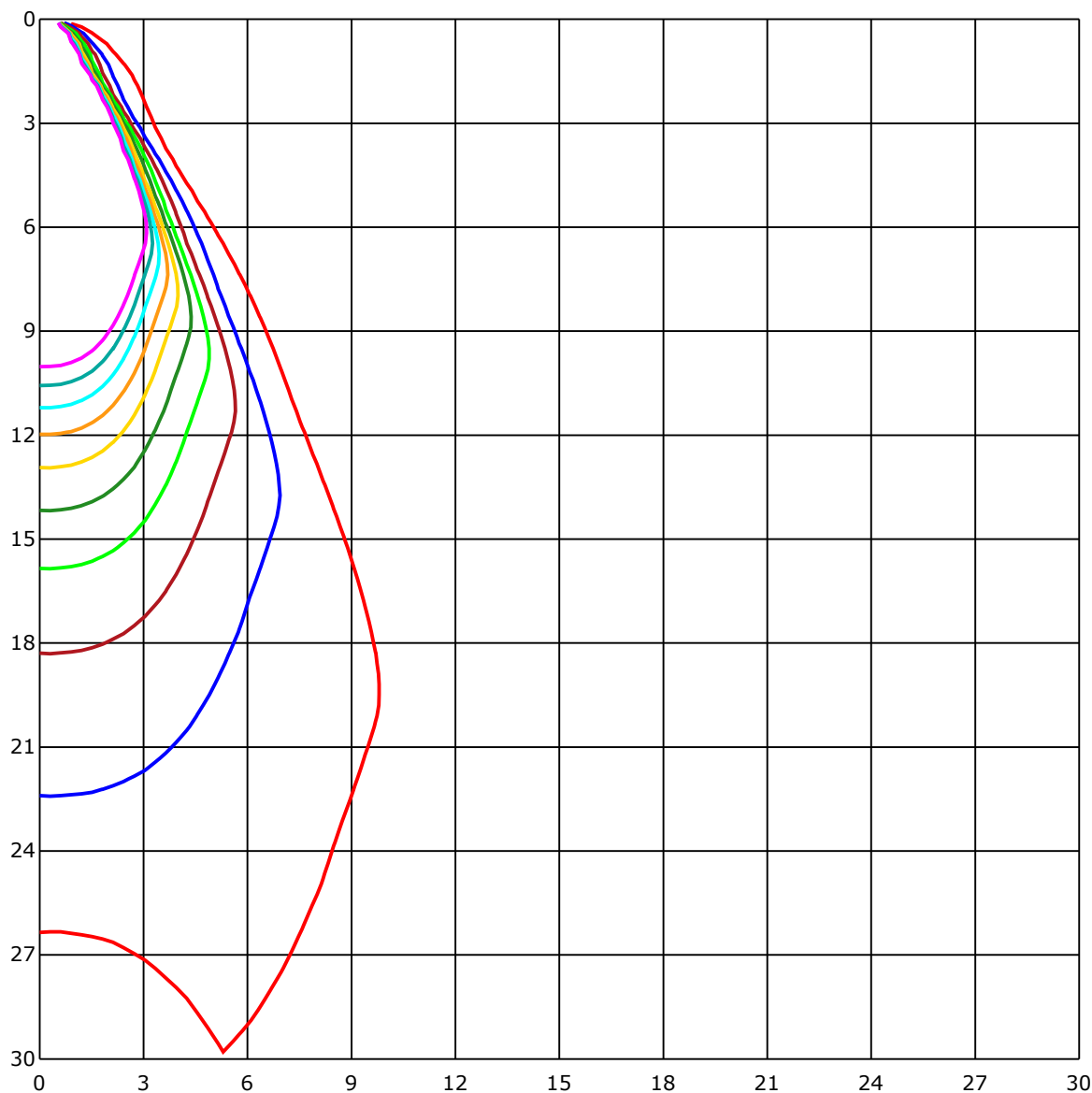
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

15.892	7.946
14.302	6.357
12.713	4.767
11.124	3.178
9.535	1.589

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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1595.39	1580.98	1587.8	1577.7	1595.39	1580.98	1587.8	1577.7	1595.39	
G1	1598.17	1578.2	1582.96	1564.28	1583.9	1588.12	1591.31	1586.77	1598.17	
G2	1595.66	1570.25	1572.86	1551.98	1576.18	1585.6	1592.61	1593.33	1595.66	
G3	1594.45	1559.93	1561.81	1535.24	1562.4	1581.21	1590.77	1597.14	1594.45	
G4	1591.4	1544.53	1550.86	1511.22	1548.26	1573.93	1581.43	1602.12	1591.4	
G5	1581.25	1529.31	1534.74	1485.14	1524.24	1564.37	1574.2	1600.64	1581.25	
G6	1570.7	1504.4	1511.18	1450.67	1499.24	1554.5	1561.36	1597.28	1570.7	
G7	1553.06	1478.63	1486.98	1411.75	1466.33	1532.9	1546.37	1595.39	1553.06	
G8	1536.5	1449.05	1456.95	1377.18	1434.82	1509.61	1522.67	1581.25	1536.5	
G9	1509.16	1414.93	1425.17	1338.13	1397.52	1480.97	1496.14	1564.1	1509.16	
G10	1481.82	1379.6	1387.46	1299.03	1358.6	1449.18	1461.53	1543.14	1481.82	
G11	1447.43	1339.7	1350.34	1256.97	1321.29	1414.98	1427.46	1514.81	1447.43	
G12	1413.86	1297.28	1312.22	1219.57	1282.55	1375.7	1387.33	1483.97	1413.86	
G13	1369.59	1256.88	1278.33	1176.84	1245.56	1341.27	1350.83	1446.63	1369.59	
G14	1328.56	1217.24	1243.9	1140.7	1209.34	1300.19	1308.23	1408.83	1328.56	
G15	1283.9	1182.13	1210.01	1103.67	1171.45	1269.09	1269.4	1364.43	1283.9	
G16	1238.61	1141.19	1173.2	1072.92	1135.4	1227.74	1232.05	1323.22	1238.61	
G17	1193.81	1106.49	1139.4	1040.82	1099.58	1192.68	1196.68	1281.3	1193.81	
G18	1153.27	1070.76	1103.76	1017.34	1070.99	1153.76	1153.58	1239.82	1153.27	
G19	1105.28	1037.18	1074.26	987.85	1042.17	1118.3	1115.11	1204.31	1105.28	
G20	1063.58	1008.01	1049.48	963.25	1017.3	1086.29	1078.84	1160.9	1063.58	
G21	1027.49	983.5	1023.94	935.15	987.94	1058.19	1047.1	1118.61	1027.49	
G22	994.4	952.3	995.75	908.21	964.42	1028.07	1016.76	1084.63	994.4	
G23	962.13	926.75	972.0	868.26	935.64	1000.73	983.85	1050.11	962.13	
G24	932.63	897.8	939.68	807.98	899.82	972.86	950.14	1019.18	932.63	
G25	905.34	854.8	904.44	722.91	836.39	943.54	916.92	988.48	905.34	
G26	876.97	790.15	841.33	631.92	755.09	902.29	871.63	959.16	876.97	
G27	834.73	706.12	762.55	537.24	663.74	837.38	802.54	928.64	834.73	
G28	767.62	614.68	672.41	448.09	571.49	749.39	715.64	887.39	767.62	
G29	683.5	522.88	574.46	371.02	479.74	654.9	621.1	823.55	683.5	
G30	594.57	435.43	477.14	314.45	398.31	557.35	525.93	741.85	594.57	
G31	501.56	364.42	393.28	272.39	340.27	459.81	436.33	648.53	501.56	
G32	420.31	313.83	335.82	236.53	294.75	380.13	361.18	555.69	420.31	
G33	354.54	272.44	289.94	203.04	254.89	325.41	313.11	466.81	354.54	
G34	310.28	235.22	250.94	175.3	218.75	281.15	272.71	393.73	310.28	
G35	276.79	202.77	216.82	151.19	187.19	241.15	234.37	343.27	276.79	
G36	241.19	173.9	187.28	128.16	159.72	205.19	199.22	301.03	241.19	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	210.0	147.46	160.8	106.03	135.61	174.98	169.19	262.61	210.0	
G38	179.69	123.76	135.88	88.21	114.25	148.05	141.27	226.83	179.69	
G39	150.79	101.45	114.07	73.93	96.29	124.26	117.48	193.7	150.79	
G40	123.85	83.85	95.66	64.33	83.09	104.46	96.24	162.91	123.85	
G41	100.01	71.11	82.06	57.91	73.71	88.57	79.05	134.71	100.01	
G42	82.24	62.4	72.54	53.51	66.98	77.93	67.16	110.47	82.24	
G43	69.85	56.79	66.44	49.87	61.59	69.62	59.39	91.89	69.85	
G44	62.22	52.07	61.23	46.6	57.73	63.92	53.64	79.55	62.22	
G45	56.34	48.3	57.59	44.17	54.54	59.39	50.14	70.52	56.34	
G46	51.8	45.07	54.41	42.42	51.8	55.62	46.69	64.33	51.8	
G47	48.12	43.0	51.58	40.89	49.65	52.75	44.31	59.39	48.12	
G48	45.25	40.81	49.29	38.92	47.4	50.23	42.2	55.75	45.25	
G49	42.65	39.19	46.95	37.35	45.11	48.03	40.54	52.61	42.65	
G50	40.98	37.48	45.02	36.23	43.59	46.15	38.78	50.1	40.98	
G51	39.23	36.14	43.32	34.79	41.79	43.9	37.48	48.03	39.23	
G52	37.57	35.01	41.66	33.85	40.54	42.29	36.05	45.7	37.57	
G53	36.09	34.07	40.22	32.77	38.92	40.63	34.88	43.86	36.09	
G54	34.83	32.81	38.7	31.51	37.66	39.19	33.44	42.38	34.83	
G55	33.67	31.56	37.48	30.26	36.32	37.98	32.41	40.63	33.67	
G56	32.68	30.39	36.14	29.18	35.15	36.59	31.2	39.32	32.68	
G57	31.51	29.54	34.88	28.01	33.71	35.42	30.03	37.89	31.51	
G58	30.35	28.33	33.53	27.07	32.55	34.16	28.91	36.63	30.35	
G59	29.13	27.43	32.55	25.9	31.29	33.08	27.74	35.1	29.13	
G60	28.24	26.17	30.97	24.69	30.08	31.42	26.57	33.89	28.24	
G61	26.98	25.14	29.85	22.98	28.59	30.44	25.36	32.28	26.98	
G62	25.72	23.48	28.33	22.36	27.02	28.77	24.29	31.02	25.72	
G63	24.55	22.13	26.93	21.82	26.26	27.16	22.71	29.67	24.55	
G64	22.89	21.55	26.04	21.1	25.59	26.04	21.68	28.42	22.89	
G65	21.91	21.14	25.5	20.51	24.73	25.27	21.23	26.75	21.91	
G66	21.46	20.38	24.64	19.93	24.11	24.55	20.74	25.99	21.46	
G67	20.83	19.98	24.11	19.17	23.39	24.02	20.11	25.36	20.83	
G68	20.34	19.3	23.39	18.63	22.85	23.3	19.44	24.47	20.34	
G69	19.71	18.67	22.49	17.91	22.09	22.67	18.9	24.11	19.71	
G70	19.26	18.0	21.82	17.15	21.19	22.13	18.27	23.12	19.26	
G71	18.45	17.46	21.1	16.61	20.47	21.1	17.78	22.53	18.45	
G72	17.87	16.7	20.25	15.8	19.53	20.29	16.97	21.68	17.87	
G73	17.24	16.16	19.48	14.9	18.58	19.57	16.3	20.78	17.24	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/23 14:59:49

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

Remarks: