

Report No.:

Test Time: 2024/7/10 18:42:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.2W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

Voltage(V): 219.70 V
Current(A): 0.1910 A
Power(W): 41.20 W
Power Factor: 0.9810
Lamp Luminous Flux: 4074.26

Photometric Results

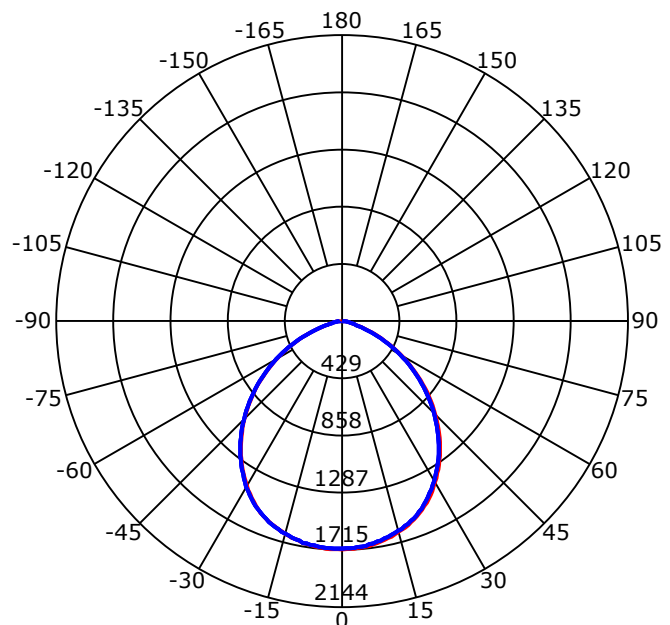
CIE Class: Direct
Luminaire Luminous Flux: 4074.258 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.89 lm/W
Beam Angle(50%) C0-180,C90-270: 100.1,99.9
Field Angle(10%) C0-180,C90-270: 144.7,144.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1715.47 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1712.19 cd
Effective Luminous Flux: 3951.15 lm
ERP(ϕ use)(120deg): 3521.77 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 100.1 deg,99.9 deg

C0-180 — C90-270 —

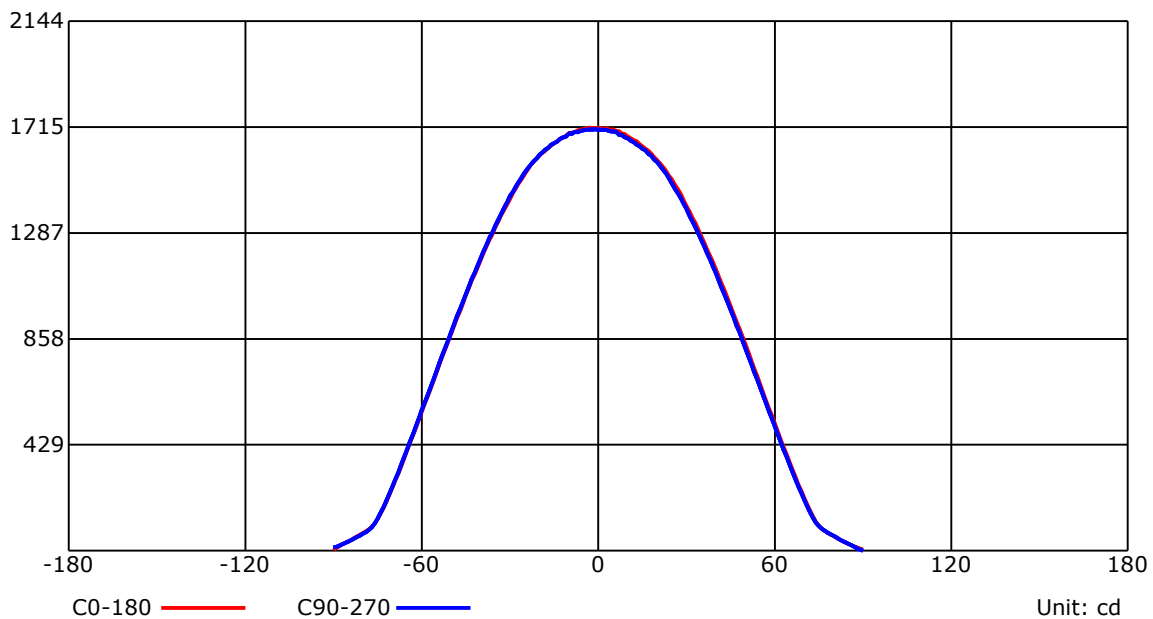
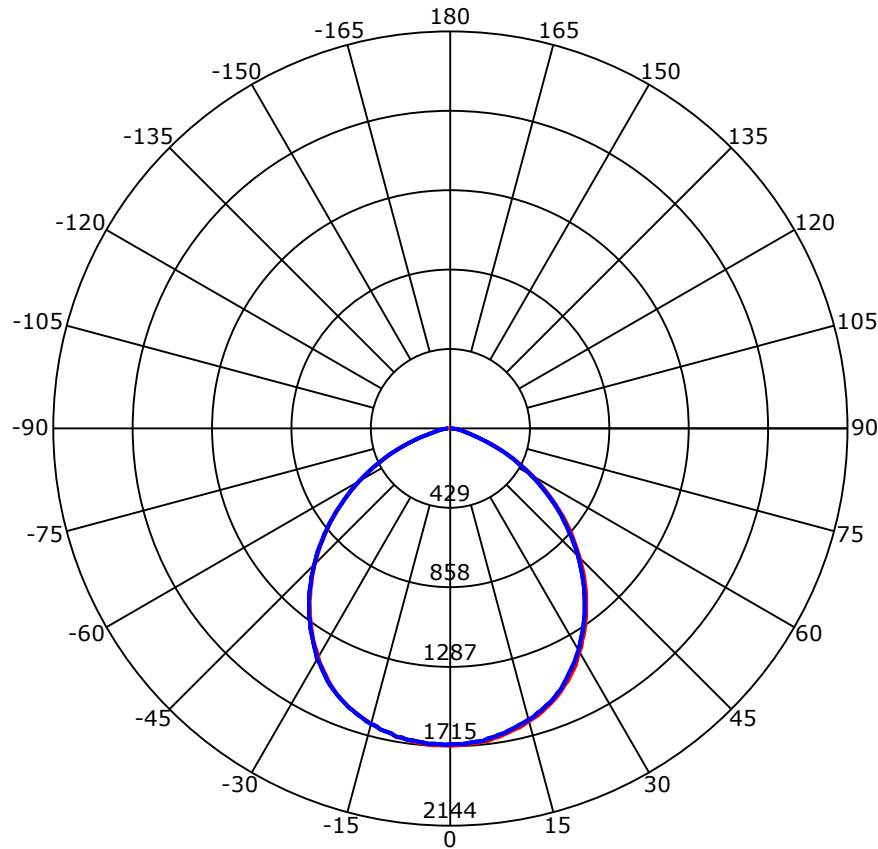
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:42:34

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



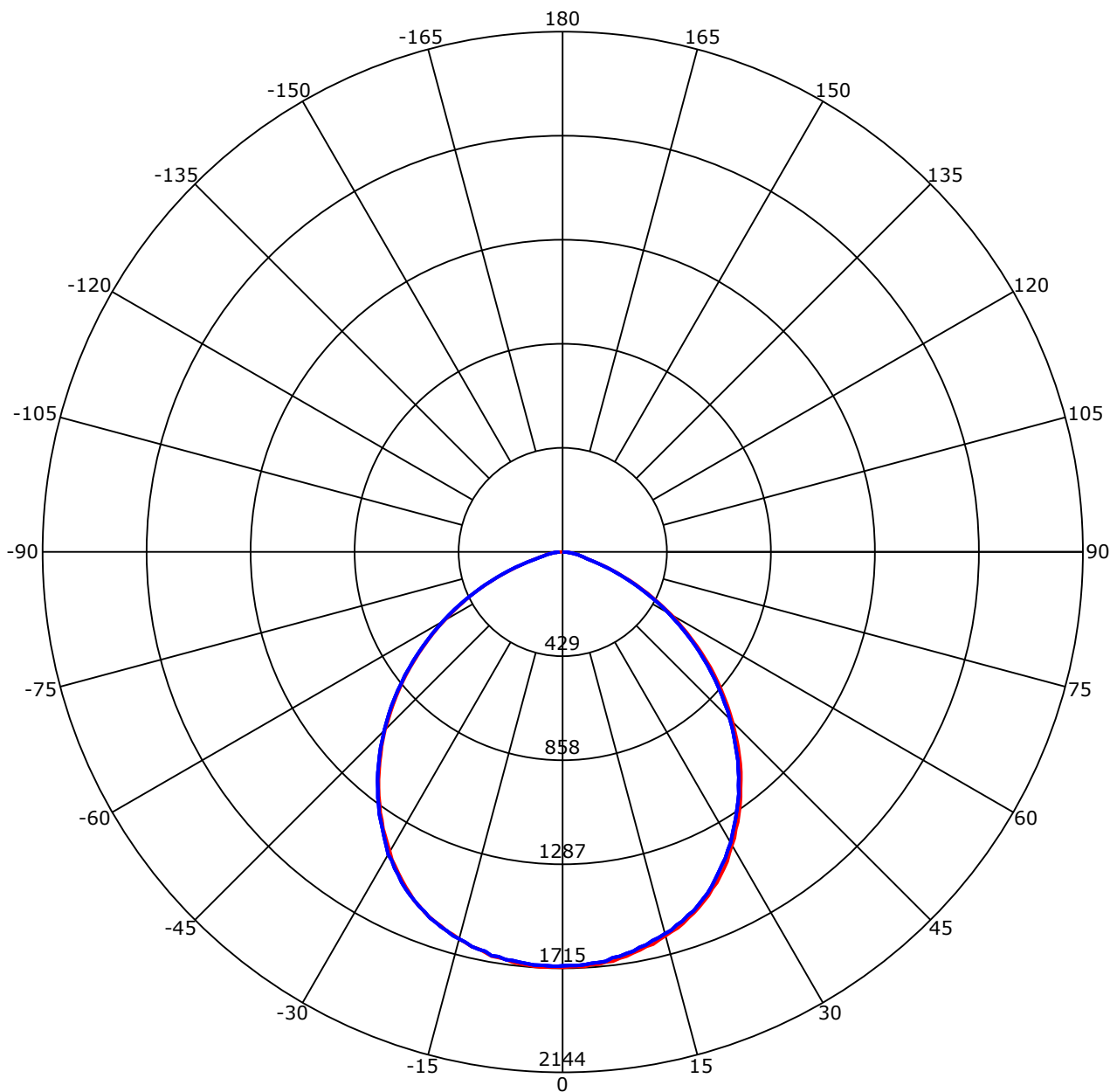
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Humidity: 60
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Remarks:

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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: 2024/7/10 18:42:34

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

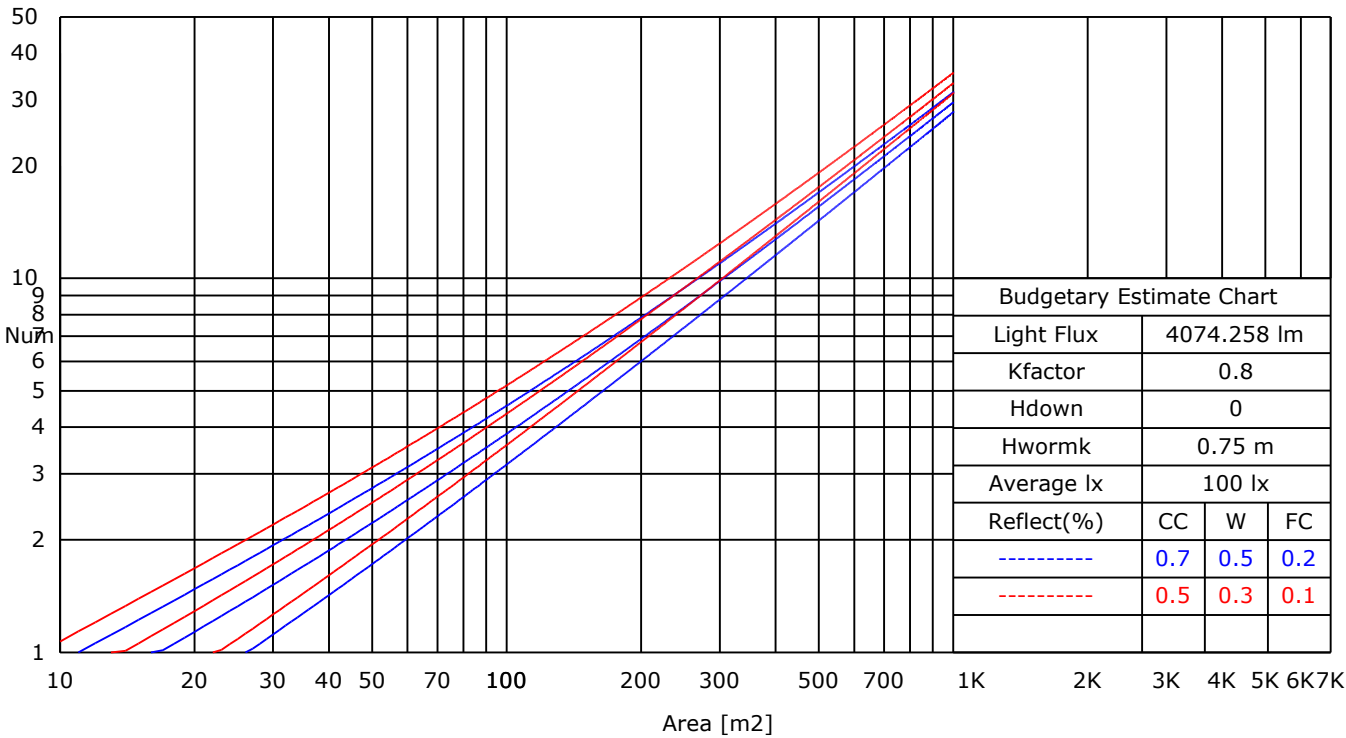
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UTILIZATION FACTORS TABLE

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	1.08	1.06	1.05	1.06	1.05	1.03	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.98	0.96	0.94	0.97	0.94	0.92	0.94	0.91	0.88	0.90	0.87	0.84	0.84	0.81	0.78	0.74
3	0.88	0.86	0.85	0.88	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.66
4	0.80	0.78	0.77	0.80	0.77	0.75	0.78	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.73	0.71	0.70	0.73	0.70	0.68	0.72	0.68	0.65	0.70	0.66	0.62	0.68	0.63	0.58	0.55
6	0.67	0.65	0.64	0.67	0.64	0.62	0.66	0.62	0.60	0.65	0.60	0.57	0.63	0.58	0.54	0.50
7	0.62	0.60	0.59	0.62	0.59	0.57	0.62	0.58	0.55	0.61	0.56	0.52	0.59	0.54	0.49	0.46
8	0.58	0.56	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.56	0.50	0.46	0.43
9	0.54	0.52	0.51	0.54	0.51	0.49	0.54	0.50	0.47	0.53	0.48	0.45	0.52	0.47	0.43	0.40
10	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.47	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.37

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



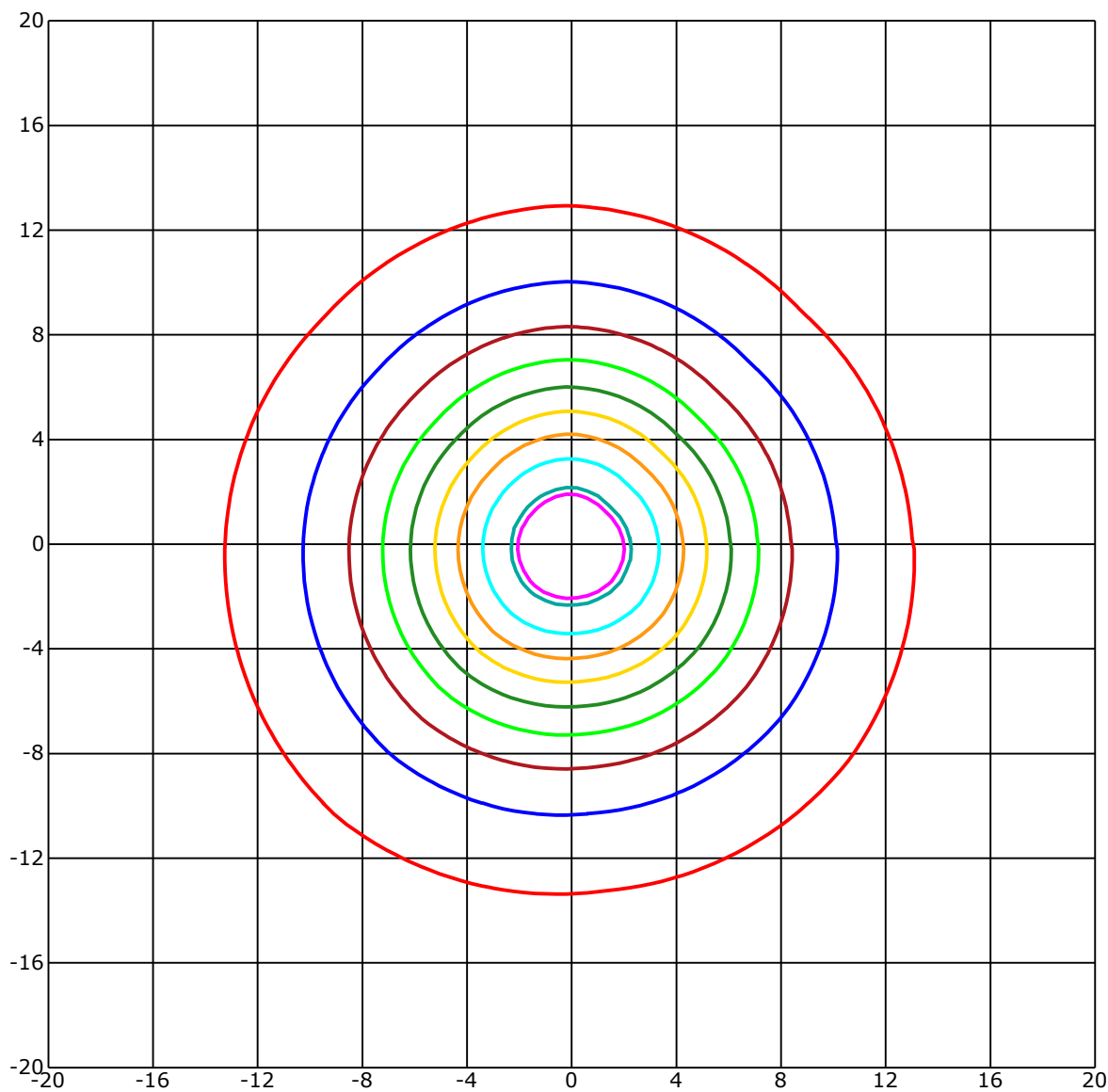
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:42:34

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



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

15.754(92%Emax)	8.562(50%Emax)
15.411(90%Emax)	6.849(40%Emax)
13.699(80%Emax)	5.137(30%Emax)
11.986(70%Emax)	3.425(20%Emax)
10.274(60%Emax)	1.712(10%Emax)

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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:42:34

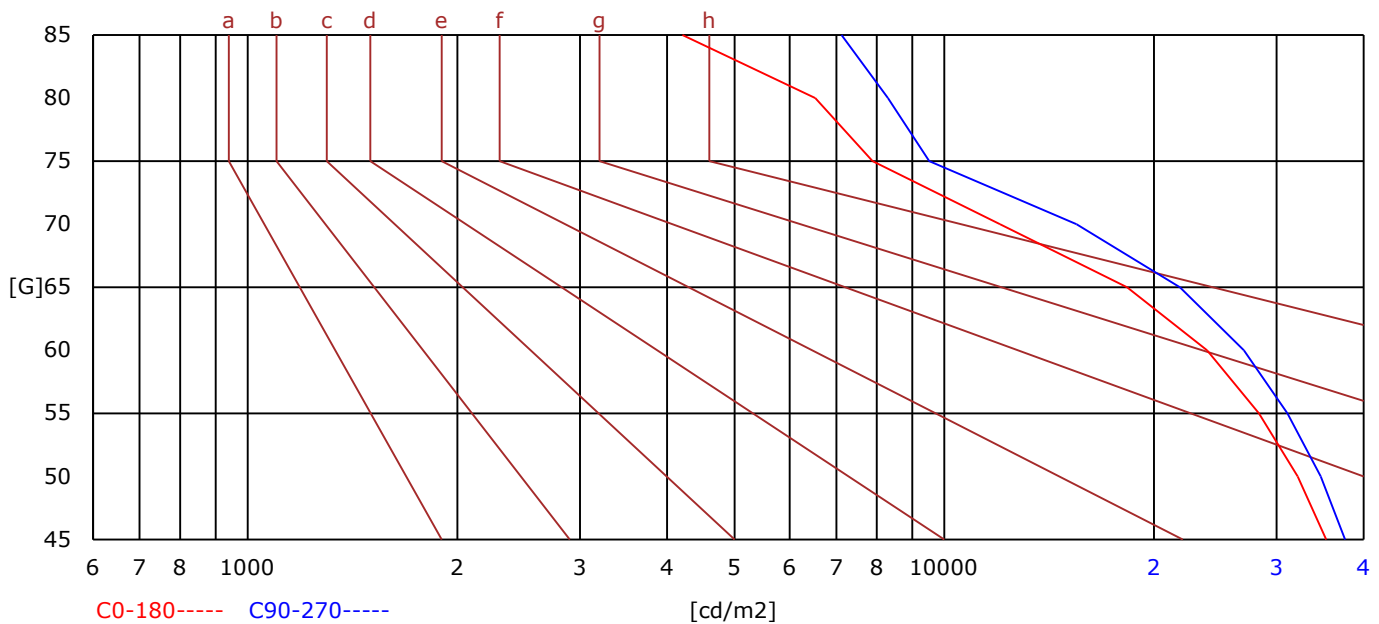
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	35338	32144	28290	23838	18298	12023	7894	6531	4209
C90	37621	34719	31091	26927	21797	15485	9513	8300	7119
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



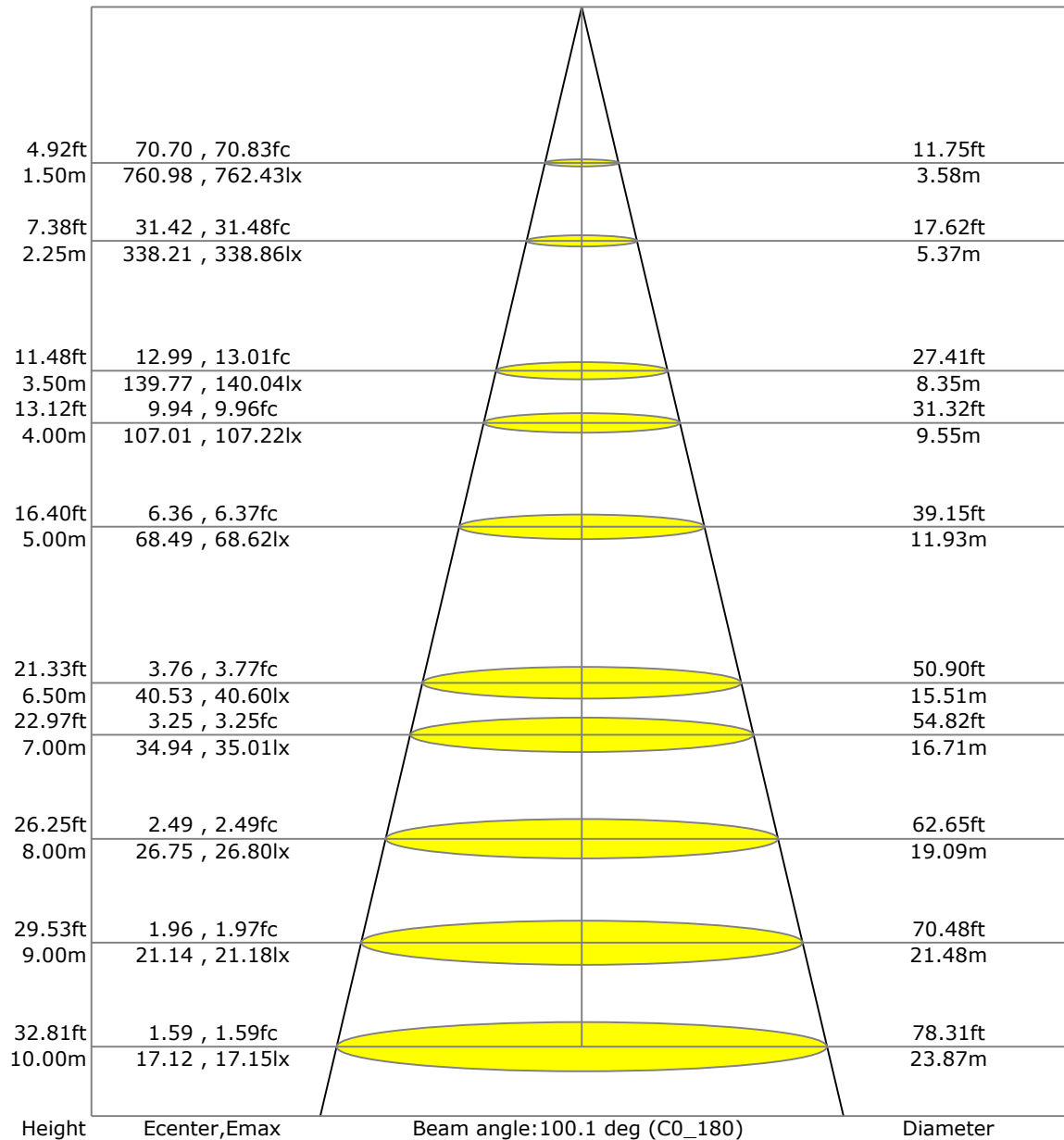
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:42:34

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: 2024/7/10 18:42:34

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	15.87	15.94	16.07	16.13	16.38	15.84	15.91	16.04	16.10	16.34
3H	15.90	15.97	16.11	16.16	16.41	15.87	15.94	16.07	16.13	16.38
4H	15.88	15.95	16.09	16.14	16.39	15.85	15.92	16.06	16.11	16.36
6H	15.85	15.92	16.07	16.12	16.37	15.82	15.89	16.04	16.09	16.34
8H	15.84	15.90	16.06	16.11	16.36	15.81	15.87	16.03	16.07	16.33
12H	15.82	15.89	16.05	16.09	16.35	15.79	15.85	16.01	16.06	16.32
4H 2H	16.87	16.94	17.08	17.14	17.39	16.81	16.88	17.02	17.08	17.32
3H	16.93	16.99	17.15	17.20	17.45	16.87	16.93	17.09	17.14	17.39
4H	16.91	16.97	17.14	17.19	17.45	16.86	16.92	17.09	17.13	17.39
6H	16.89	16.94	17.13	17.16	17.43	16.83	16.89	17.07	17.11	17.37
8H	16.87	16.92	17.11	17.15	17.42	16.81	16.87	17.06	17.09	17.36
12H	16.85	16.90	17.10	17.13	17.40	16.79	16.84	17.04	17.08	17.35
8H 4H	16.95	17.01	17.17	17.22	17.47	16.89	16.96	17.11	17.16	17.41
6H	17.01	17.06	17.26	17.29	17.57	16.96	17.01	17.21	17.25	17.52
8H	16.99	17.04	17.25	17.28	17.56	16.94	16.99	17.20	17.23	17.51
12H	16.97	17.01	17.24	17.27	17.55	16.92	16.96	17.19	17.22	17.50
12H 4H	17.05	17.10	17.30	17.33	17.60	17.00	17.05	17.25	17.28	17.55
6H	17.03	17.08	17.30	17.32	17.60	16.99	17.03	17.25	17.28	17.55

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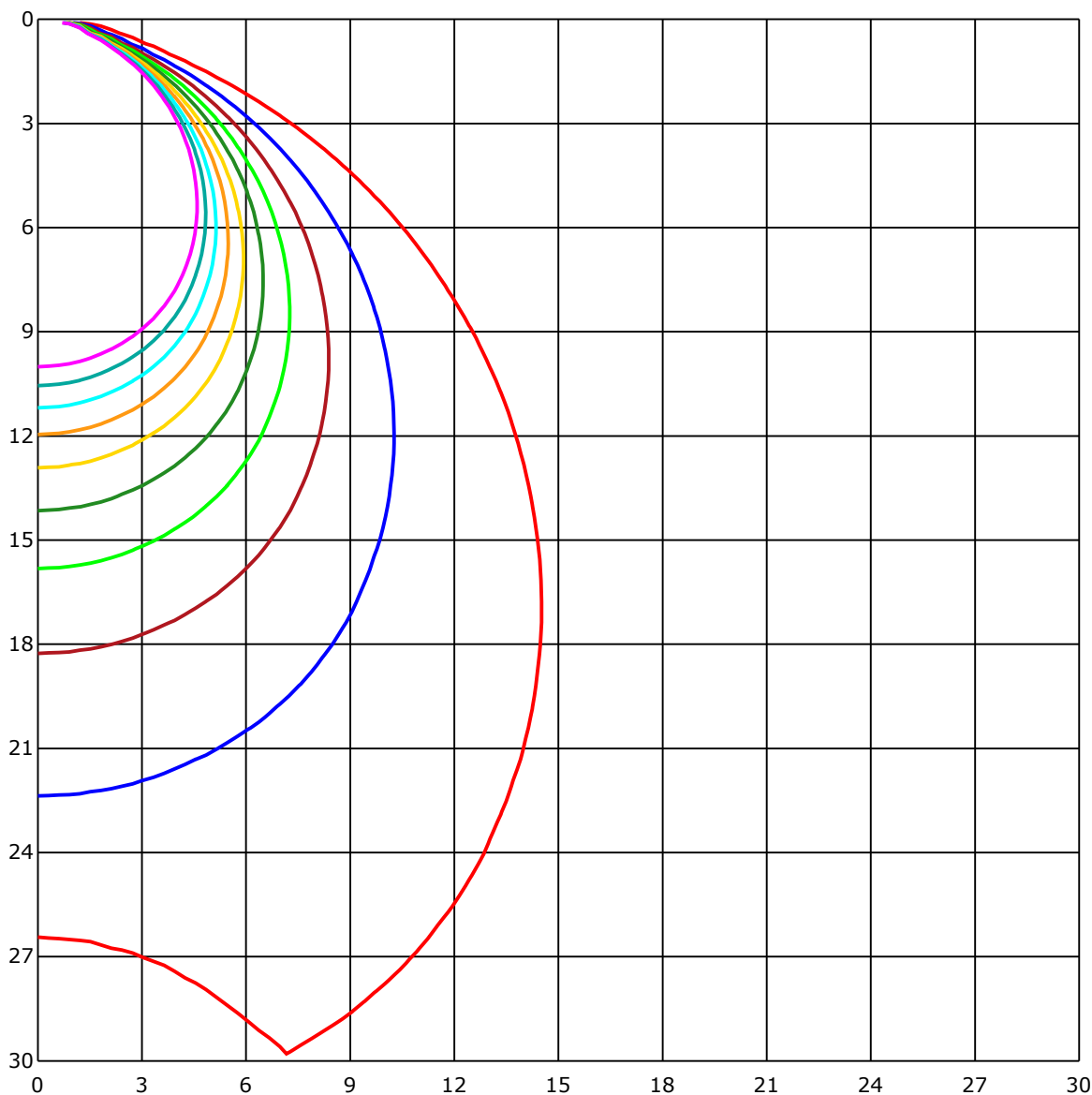
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.109	8.555
15.399	6.844
13.688	5.133
11.977	3.422
10.266	1.711

C Range: 0 - 360 Deg

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Temperature: 25

Operators: QC01

Test Date: 2024/7/10 18:42:34

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1712.19	1705.6	1705.46	1711.12	1712.19	1705.6	1705.46	1711.12	1712.19	
G1	1710.31	1699.36	1704.2	1710.85	1711.16	1703.94	1707.08	1711.66	1710.31	
G2	1710.08	1699.81	1704.88	1706.36	1711.84	1707.57	1705.82	1715.47	1710.08	
G3	1710.49	1692.35	1702.59	1706.36	1713.14	1704.65	1704.92	1710.13	1710.49	
G4	1704.34	1690.2	1698.41	1700.88	1711.3	1710.76	1705.78	1706.49	1704.34	
G5	1706.0	1682.97	1697.25	1695.77	1707.75	1705.24	1702.54	1708.24	1706.0	
G6	1699.72	1677.36	1695.72	1697.7	1705.73	1706.49	1699.89	1703.31	1699.72	
G7	1698.68	1671.3	1684.68	1687.55	1702.23	1703.44	1695.41	1703.98	1698.68	
G8	1690.11	1667.04	1682.75	1680.77	1695.41	1699.81	1696.21	1696.57	1690.11	
G9	1686.92	1658.51	1674.44	1678.17	1692.98	1700.25	1688.27	1694.69	1686.92	
G10	1677.41	1650.83	1670.27	1669.06	1691.5	1695.41	1689.57	1688.9	1677.41	
G11	1670.67	1642.3	1659.63	1659.36	1680.23	1687.46	1676.42	1682.03	1670.67	
G12	1662.1	1635.52	1654.42	1651.41	1671.39	1683.82	1673.68	1675.92	1662.1	
G13	1658.96	1624.61	1643.87	1650.2	1668.92	1681.0	1668.11	1673.14	1658.96	
G14	1646.97	1610.92	1637.27	1639.74	1659.13	1673.45	1657.16	1662.46	1646.97	
G15	1637.72	1603.47	1628.03	1625.33	1650.92	1669.32	1650.47	1658.24	1637.72	
G16	1628.07	1591.98	1621.7	1616.22	1639.79	1663.26	1644.55	1646.83	1628.07	
G17	1620.17	1576.4	1606.48	1606.25	1632.92	1649.75	1631.84	1641.36	1620.17	
G18	1608.27	1567.42	1598.53	1594.67	1620.13	1647.28	1624.52	1627.4	1608.27	
G19	1593.91	1548.26	1583.14	1584.62	1611.78	1633.59	1612.63	1621.88	1593.91	
G20	1582.37	1536.72	1574.07	1567.6	1600.64	1626.41	1603.83	1606.57	1582.37	
G21	1568.68	1516.25	1558.58	1552.3	1590.05	1612.94	1587.89	1602.21	1568.68	
G22	1553.46	1499.06	1541.57	1533.58	1574.79	1604.77	1576.99	1588.21	1553.46	
G23	1537.75	1481.42	1527.79	1515.98	1563.07	1594.54	1562.13	1571.96	1537.75	
G24	1517.91	1460.18	1507.63	1497.22	1543.63	1585.6	1547.76	1555.53	1517.91	
G25	1503.91	1443.71	1487.61	1482.94	1526.62	1565.14	1532.28	1539.41	1503.91	
G26	1483.26	1420.1	1466.92	1457.53	1507.23	1555.44	1514.36	1522.22	1483.26	
G27	1464.22	1402.77	1446.81	1438.68	1488.46	1535.73	1493.8	1505.3	1464.22	
G28	1444.16	1373.63	1428.0	1417.81	1468.04	1518.36	1476.3	1486.49	1444.16	
G29	1418.03	1346.97	1403.85	1393.12	1450.26	1497.93	1453.54	1468.8	1418.03	
G30	1394.82	1326.45	1383.29	1374.67	1425.08	1480.79	1438.68	1447.34	1394.82	
G31	1374.13	1299.84	1356.94	1348.18	1402.81	1458.57	1412.24	1424.72	1374.13	
G32	1346.61	1274.74	1332.16	1325.15	1380.28	1441.64	1388.81	1404.52	1346.61	
G33	1326.32	1247.04	1308.36	1301.0	1358.64	1416.59	1363.71	1380.05	1326.32	
G34	1299.84	1223.39	1283.32	1272.77	1332.69	1394.51	1341.18	1361.42	1299.84	
G35	1274.02	1196.54	1258.49	1247.94	1310.79	1370.49	1318.2	1331.48	1274.02	
G36	1248.89	1168.26	1233.58	1218.36	1282.64	1351.32	1290.27	1306.34	1248.89	

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1219.71	1140.07	1204.26	1195.51	1258.45	1322.41	1267.56	1281.03	1219.71	
G38	1193.13	1111.84	1177.69	1167.23	1232.14	1302.26	1238.29	1254.32	1193.13	
G39	1166.56	1083.87	1149.54	1138.41	1205.79	1272.18	1213.47	1229.54	1166.56	
G40	1138.59	1055.09	1122.56	1109.55	1176.97	1247.4	1185.95	1203.46	1138.59	
G41	1108.83	1023.63	1092.08	1078.75	1148.96	1220.11	1156.82	1175.22	1108.83	
G42	1079.96	995.12	1062.59	1053.07	1120.19	1192.82	1128.76	1146.31	1079.96	
G43	1050.65	962.31	1032.52	1021.34	1094.55	1166.02	1100.7	1117.45	1050.65	
G44	1019.9	934.65	1003.97	989.96	1063.35	1139.62	1069.55	1086.88	1019.9	
G45	989.47	902.06	973.48	960.33	1036.15	1109.68	1039.79	1059.45	989.47	
G46	958.81	871.81	945.29	930.12	1002.8	1080.95	1010.2	1028.21	958.81	
G47	928.5	843.17	912.16	898.61	971.42	1050.83	981.03	997.99	928.5	
G48	897.58	808.83	883.61	868.85	942.51	1021.07	950.99	966.48	897.58	
G49	866.47	777.18	849.5	837.2	910.82	990.36	918.27	939.91	866.47	
G50	836.44	745.89	818.66	805.64	879.22	962.17	887.57	904.89	836.44	
G51	804.83	713.53	787.37	772.74	849.27	929.27	855.33	875.13	804.83	
G52	772.29	681.7	757.2	740.33	818.7	898.16	825.39	844.11	772.29	
G53	739.97	648.84	723.99	709.71	786.02	866.96	791.9	813.45	739.97	
G54	707.47	619.03	693.19	675.28	753.03	840.39	761.51	780.86	707.47	
G55	674.43	585.77	660.06	643.77	720.98	803.67	727.49	748.45	674.43	
G56	640.36	553.99	629.45	611.76	688.79	773.28	695.62	717.79	640.36	
G57	608.84	522.88	597.58	582.0	657.73	739.38	664.78	683.72	608.84	
G58	577.24	492.49	566.02	547.97	625.9	708.54	632.63	651.53	577.24	
G59	545.95	459.85	533.25	517.67	594.97	676.81	599.51	620.87	545.95	
G60	515.43	430.27	502.36	486.02	562.56	645.56	570.55	587.74	515.43	
G61	483.15	397.41	470.54	453.97	530.87	611.58	536.97	557.13	483.15	
G62	450.83	367.02	439.34	423.04	498.23	580.25	505.55	524.45	450.83	
G63	419.95	337.35	409.26	393.19	467.75	548.33	473.95	494.1	419.95	
G64	388.7	307.59	379.05	361.77	436.47	517.18	442.75	463.67	388.7	
G65	358.18	279.17	347.72	332.55	406.07	485.66	410.61	433.23	358.18	
G66	328.51	251.02	318.58	302.51	373.44	453.7	380.67	400.33	328.51	
G67	299.37	224.18	289.27	273.74	343.0	422.5	350.41	369.4	299.37	
G68	268.35	197.25	260.32	245.14	313.06	392.25	317.73	338.96	268.35	
G69	240.97	172.06	232.66	218.17	284.29	360.33	288.78	308.84	240.97	
G70	213.54	148.45	205.6	191.19	254.71	329.45	260.23	278.99	213.54	
G71	187.33	126.14	179.11	166.23	226.65	299.42	231.95	250.53	187.33	
G72	161.78	106.84	154.87	141.85	199.81	269.25	204.61	221.13	161.78	
G73	138.58	91.31	132.38	120.89	173.9	240.16	177.63	194.64	138.58	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/10 18:42:34

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: 2024/7/10 18:42:34

Remarks: