

Report No.:

Test Time: 2024/7/10 18:33:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.3W
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): 41.31 W
Power Factor: 0.9810
Lamp Luminous Flux: 4337.22

Photometric Results

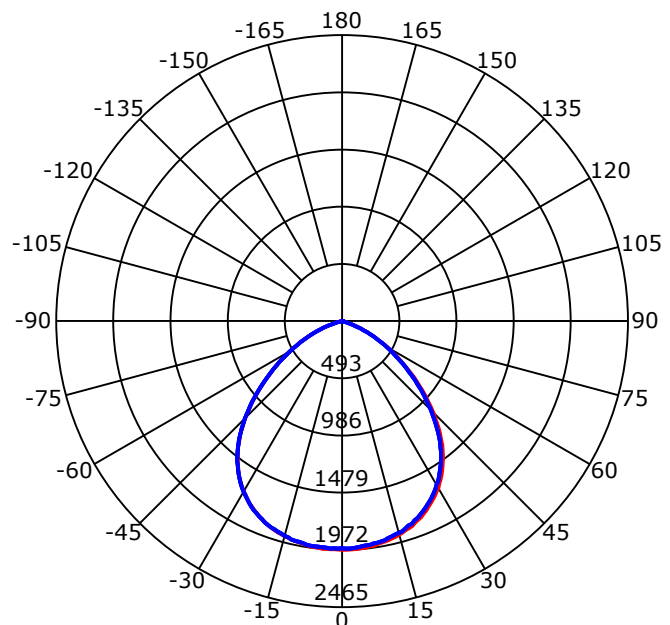
CIE Class: Direct
Luminaire Luminous Flux: 4337.219 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.99 lm/W
Beam Angle(50%) C0-180,C90-270: 96.8,96.5
Field Angle(10%) C0-180,C90-270: 136.6,136.6
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 1971.61 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1971.61 cd
Effective Luminous Flux: 4249.75 lm
ERP(ϕ use)(120deg): 3974.32 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 96.8 deg,96.5 deg

C0-180 — C90-270

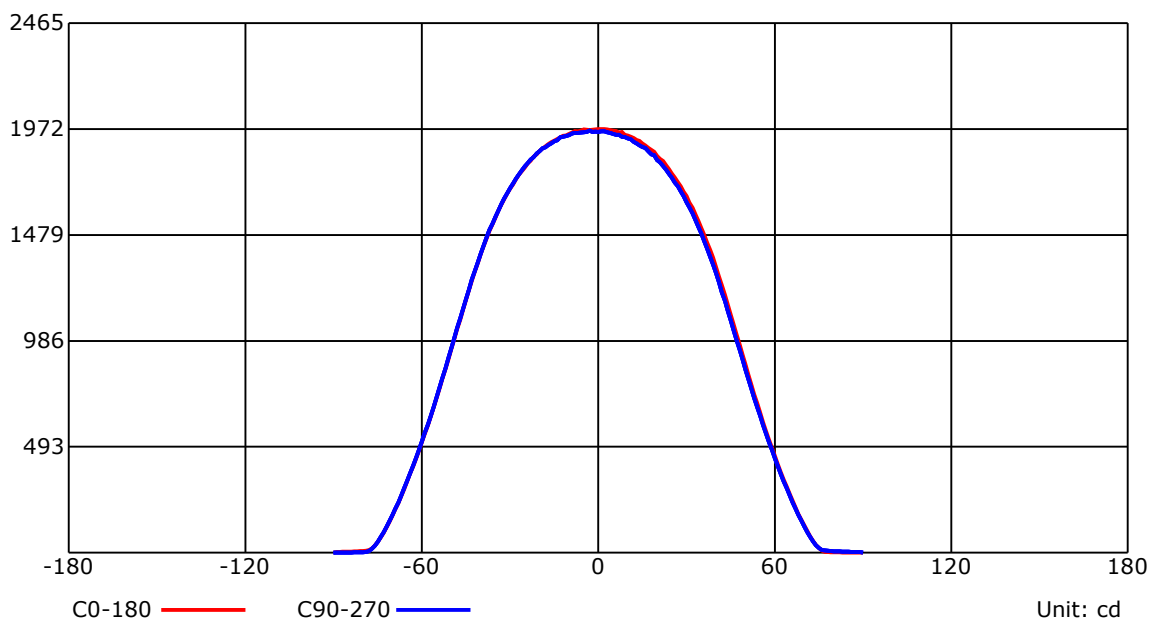
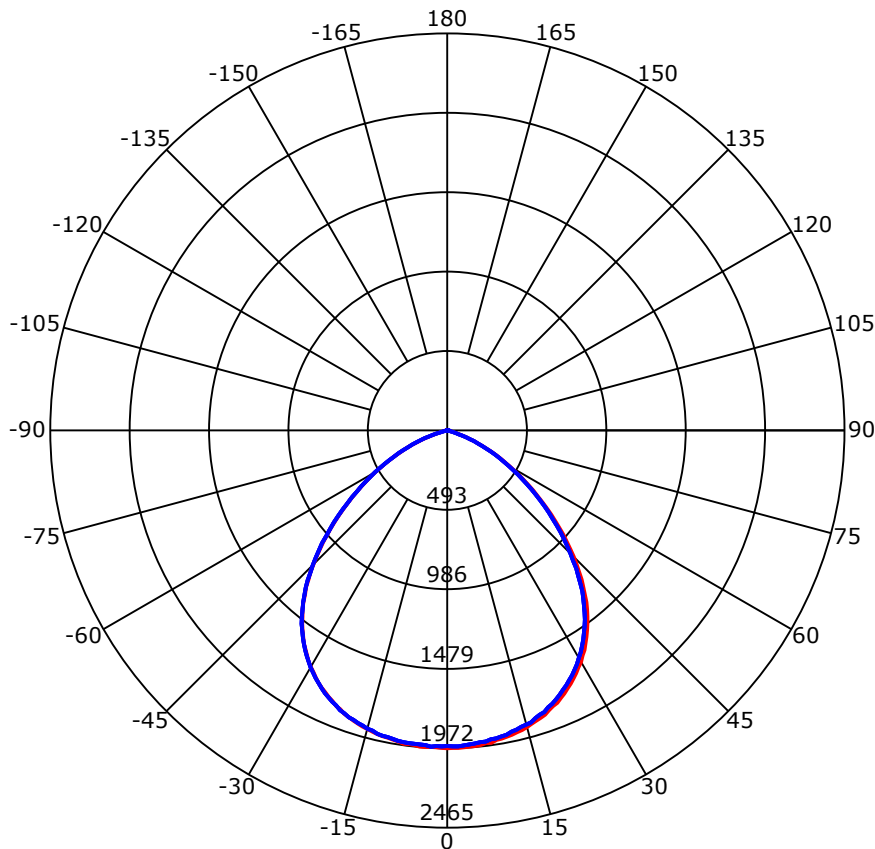
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

Luminous Intensity Distribution Curve



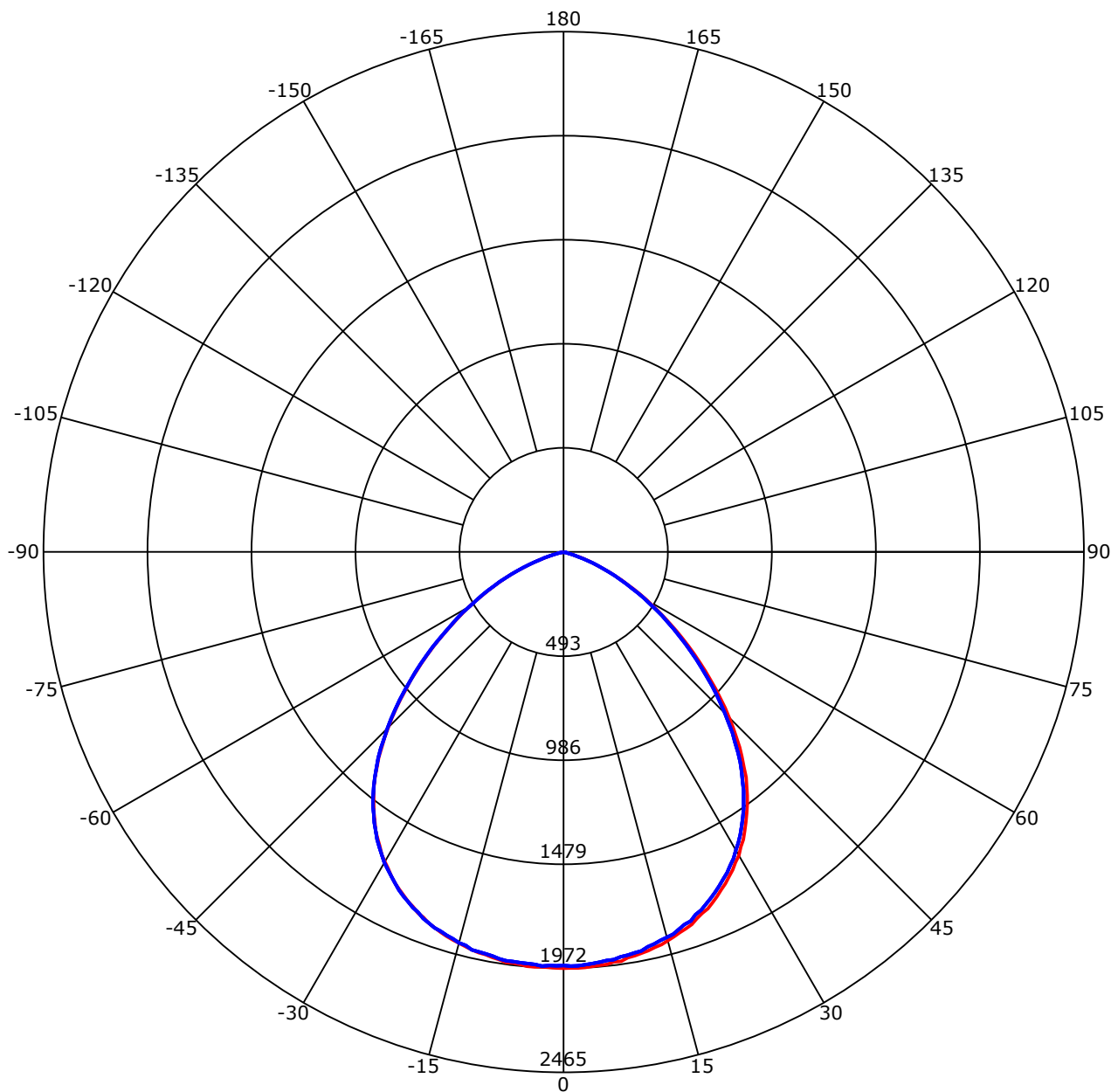
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

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 18:33:25

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

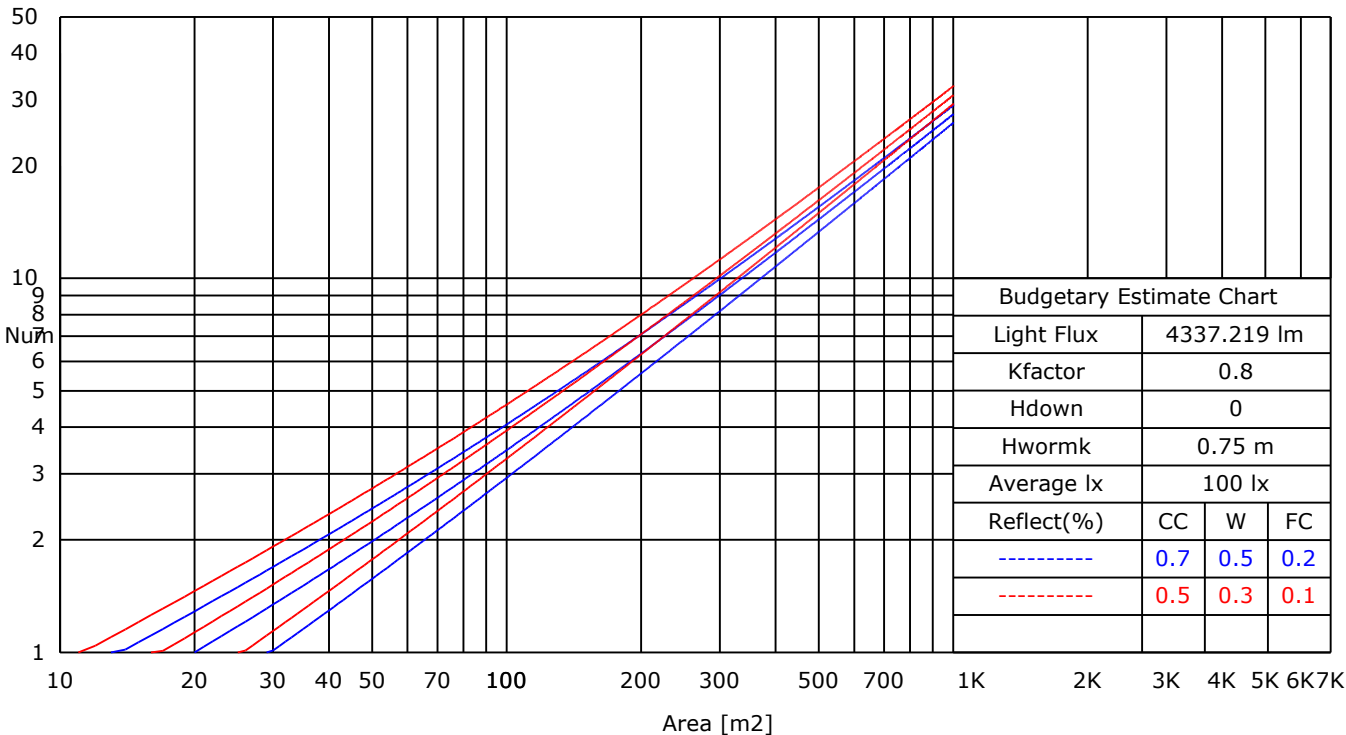
Report No.:

Test Time: 2024/7/10 18:33:25

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	0.90	0.88	0.83
2	1.00	0.98	0.97	0.98	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.77	0.75	0.74	0.77	0.74	0.72	0.75	0.71	0.69	0.73	0.69	0.65	0.70	0.65	0.61	0.58
6	0.71	0.69	0.68	0.71	0.68	0.66	0.70	0.66	0.63	0.68	0.64	0.60	0.66	0.61	0.57	0.53
7	0.66	0.64	0.63	0.66	0.63	0.61	0.65	0.61	0.59	0.64	0.59	0.56	0.62	0.57	0.53	0.49
8	0.61	0.60	0.58	0.61	0.59	0.57	0.61	0.57	0.54	0.60	0.55	0.52	0.58	0.53	0.49	0.46
9	0.57	0.56	0.55	0.57	0.55	0.53	0.57	0.53	0.51	0.56	0.52	0.48	0.55	0.50	0.46	0.43
10	0.54	0.52	0.51	0.54	0.52	0.50	0.54	0.50	0.48	0.53	0.49	0.45	0.52	0.47	0.43	0.40

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



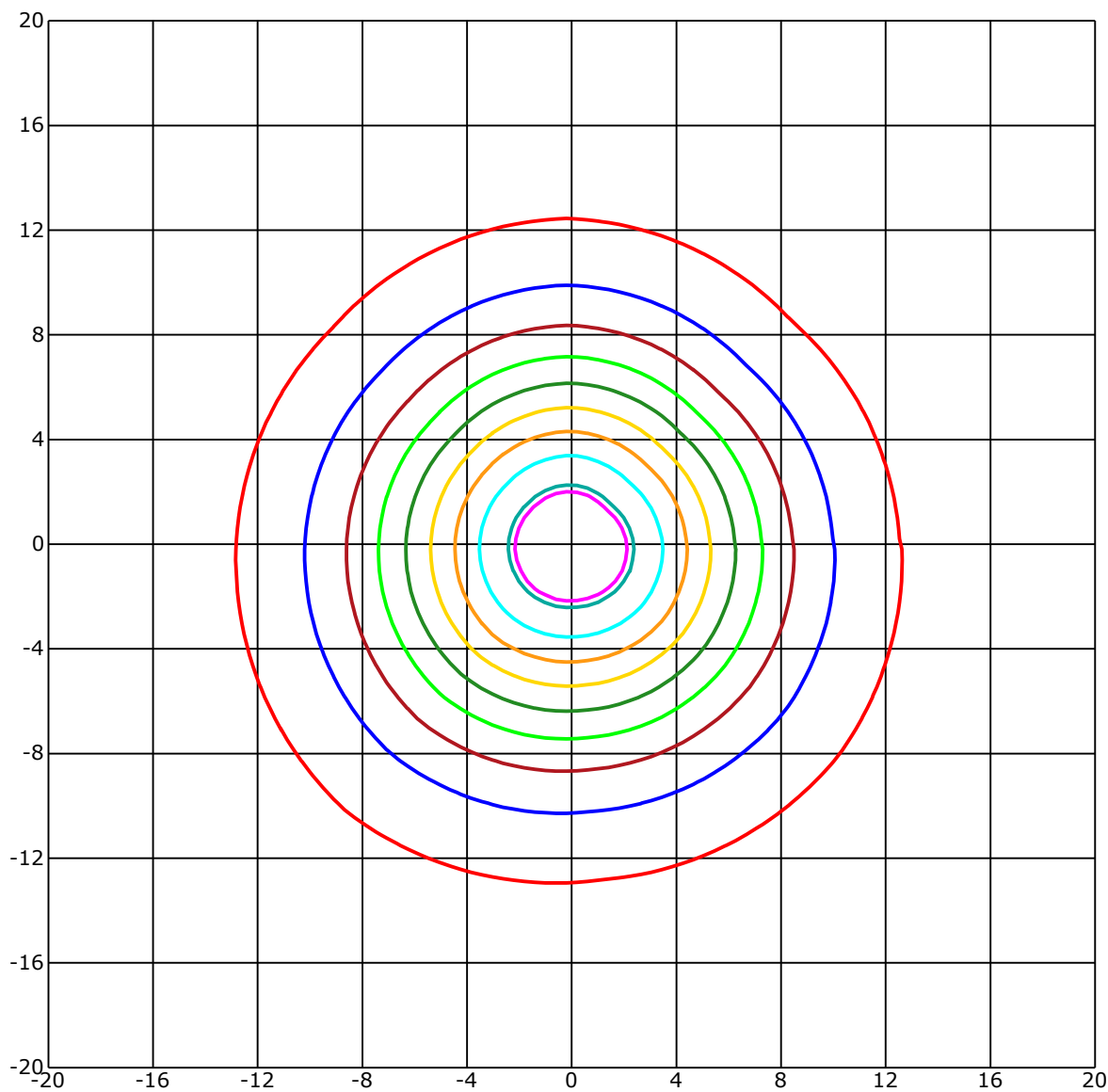
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

ISOLX DIAGRAM



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

18.139(92%Emax)	9.858(50%Emax)
17.745(90%Emax)	7.886(40%Emax)
15.773(80%Emax)	5.915(30%Emax)
13.801(70%Emax)	3.943(20%Emax)
11.83(60%Emax)	1.972(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

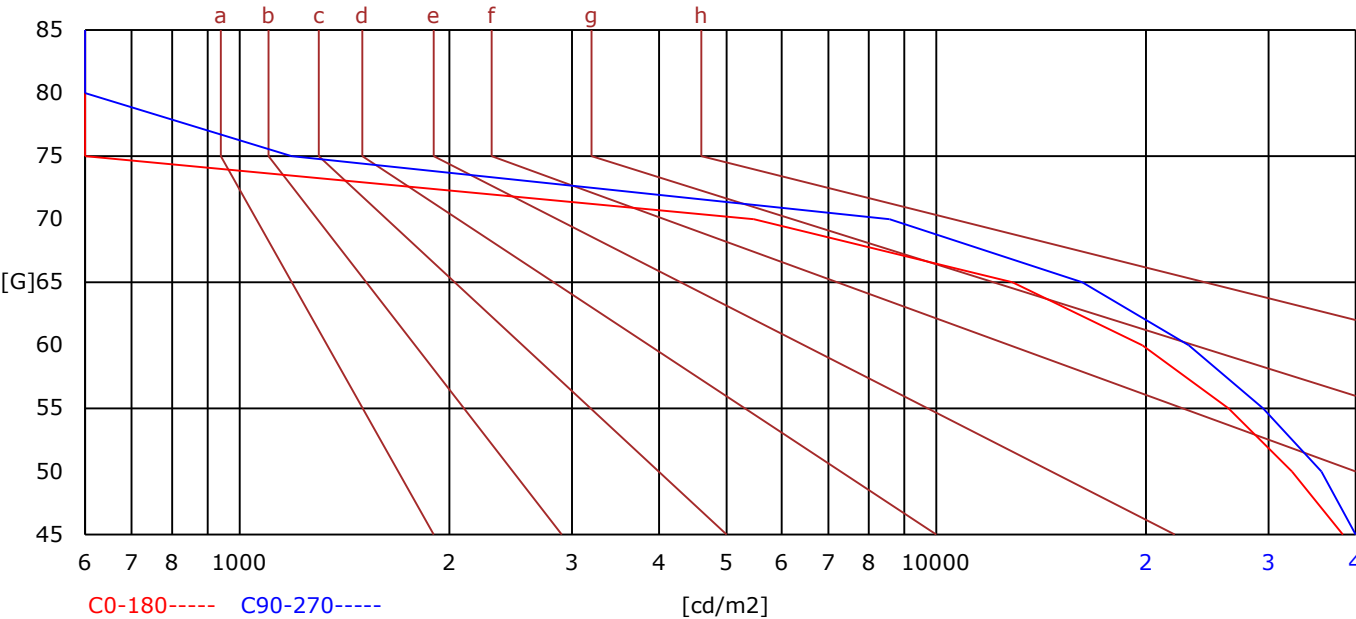
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

Test Time: 2024/7/10 18:33:25

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	38347	32401	26263	19776	12861	5472	370	165	100
C90	41569	35715	29463	23054	16206	8573	1187	165	86
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



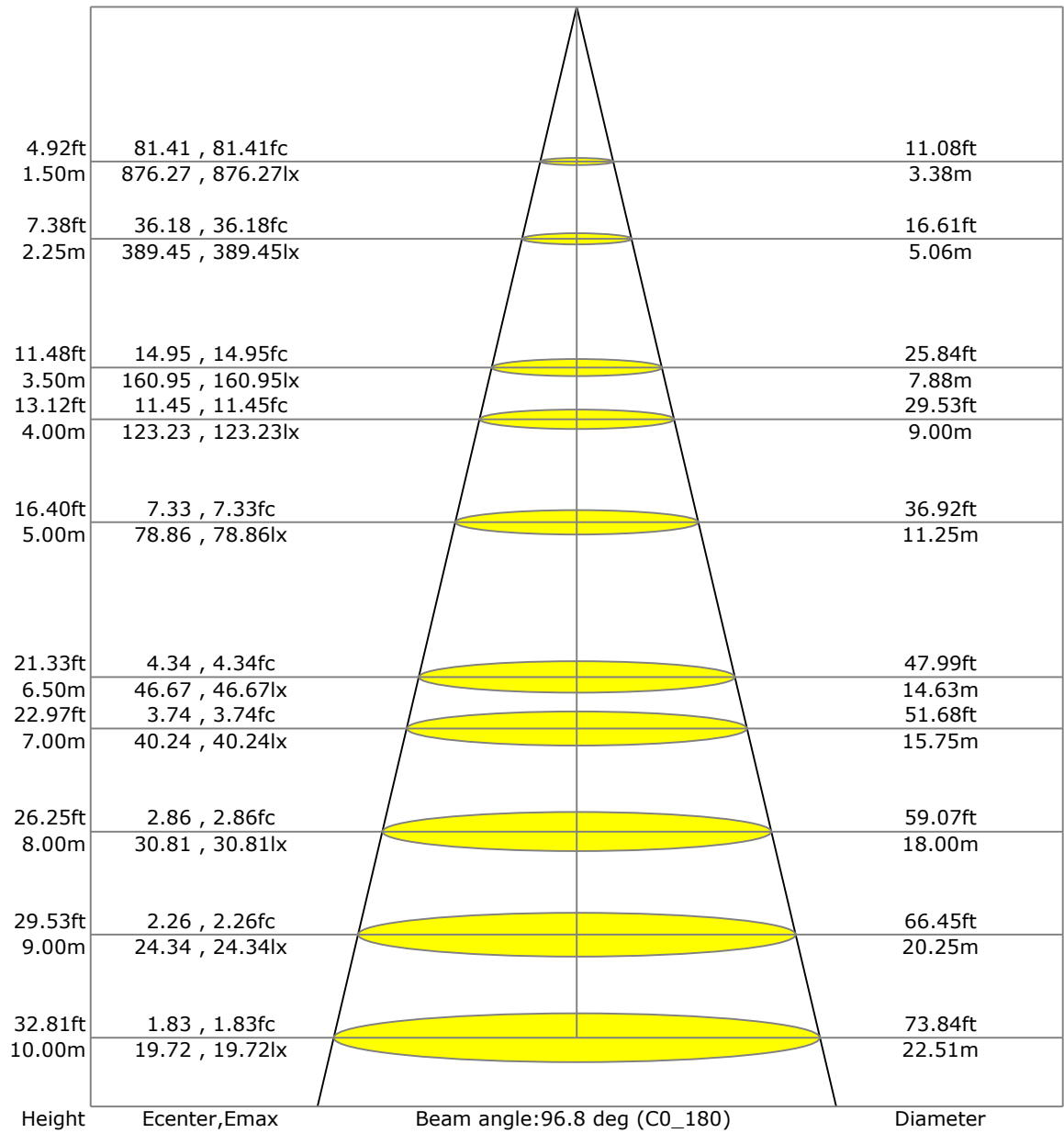
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

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 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

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	15.30	15.37	15.50	15.55	15.80	15.26	15.32	15.46	15.51	15.75
3H	15.28	15.35	15.49	15.54	15.79	15.24	15.31	15.45	15.50	15.75
4H	15.26	15.32	15.47	15.52	15.77	15.22	15.28	15.43	15.48	15.73
6H	15.23	15.30	15.45	15.50	15.75	15.19	15.25	15.41	15.45	15.71
8H	15.22	15.28	15.44	15.48	15.74	15.18	15.24	15.40	15.44	15.70
12H	15.21	15.27	15.43	15.47	15.73	15.16	15.22	15.39	15.43	15.68
4H 2H	15.74	15.81	15.96	16.00	16.25	15.69	15.75	15.90	15.95	16.20
3H	15.72	15.78	15.94	15.99	16.24	15.67	15.73	15.89	15.93	16.19
4H	15.69	15.75	15.92	15.96	16.22	15.64	15.69	15.87	15.91	16.17
6H	15.66	15.71	15.90	15.93	16.20	15.60	15.66	15.84	15.88	16.14
8H	15.64	15.69	15.88	15.92	16.19	15.59	15.64	15.83	15.86	16.13
12H	15.62	15.67	15.87	15.90	16.17	15.57	15.62	15.82	15.85	16.12
8H 4H	15.70	15.77	15.92	15.97	16.22	15.65	15.71	15.87	15.91	16.17
6H	15.60	15.65	15.86	15.89	16.16	15.55	15.60	15.81	15.84	16.11
8H	15.58	15.63	15.85	15.87	16.15	15.53	15.57	15.79	15.82	16.10
12H	15.56	15.60	15.83	15.86	16.14	15.51	15.55	15.78	15.80	16.08
12H 4H	15.62	15.67	15.87	15.90	16.17	15.57	15.62	15.82	15.85	16.12
6H	15.58	15.63	15.85	15.87	16.15	15.53	15.57	15.79	15.82	16.10

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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

ZONAL LUMINOUS FLUX TABLE

[illegible]

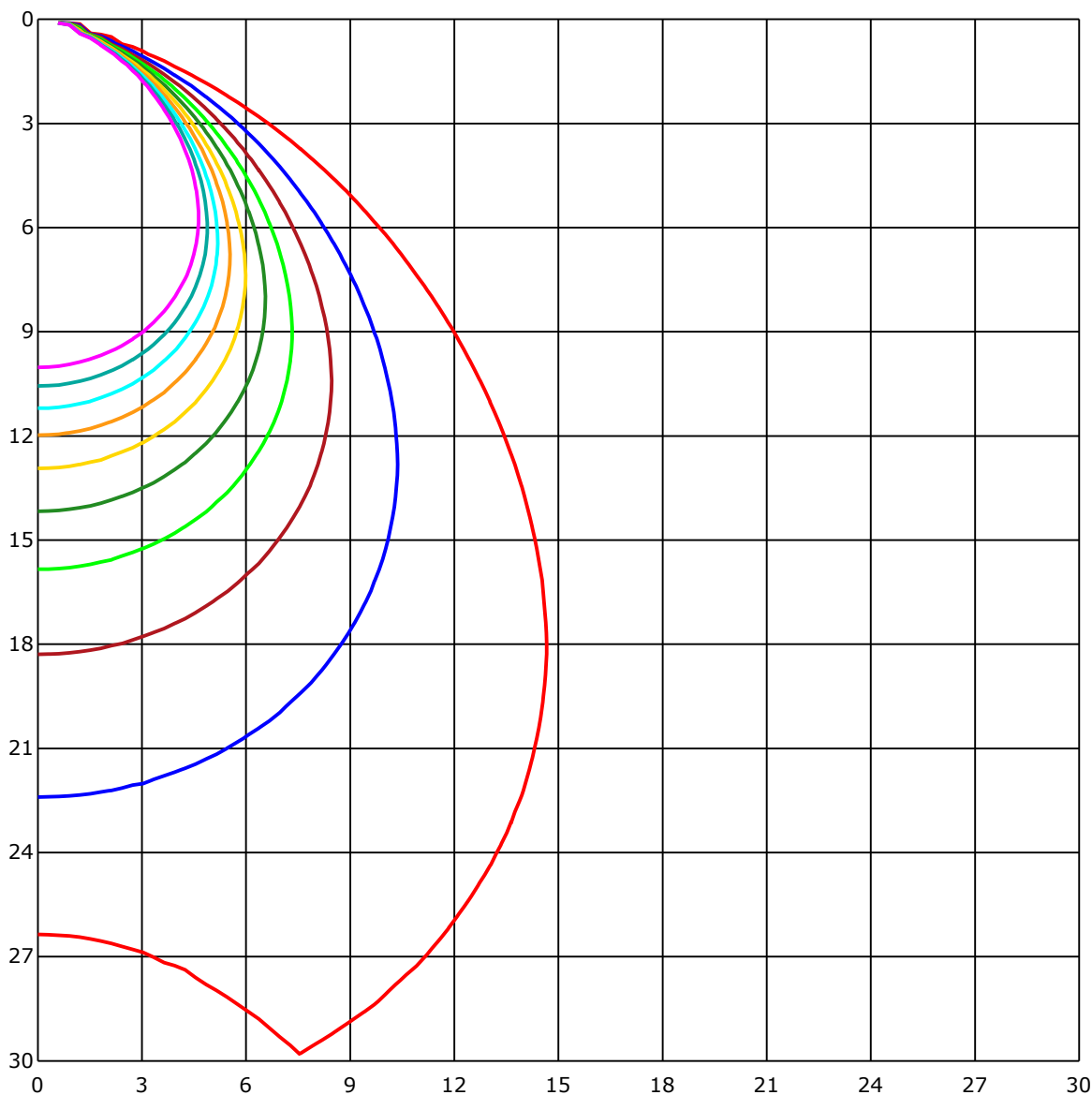
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

SPACE ISOLX DIAGRAM



Unit of illumination:lx

19.645
17.681
15.716
13.752
11.787

9.823
7.858
5.894
3.929
1.965

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1971.61	1955.27	1958.37	1967.98	1971.61	1955.27	1958.37	1967.98	1971.61	
G1	1970.99	1954.51	1961.42	1962.46	1970.36	1959.72	1960.21	1964.43	1970.99	
G2	1971.3	1950.47	1961.33	1962.28	1968.47	1958.19	1959.0	1970.18	1971.3	
G3	1969.91	1951.73	1956.62	1963.0	1967.57	1957.65	1964.16	1967.21	1969.91	
G4	1967.44	1942.26	1954.15	1959.09	1969.1	1957.79	1957.65	1966.41	1967.44	
G5	1964.97	1942.3	1949.66	1955.86	1970.4	1958.87	1956.35	1962.46	1964.97	
G6	1963.35	1931.98	1944.59	1955.27	1963.71	1962.23	1955.72	1963.49	1963.35	
G7	1955.5	1930.94	1944.81	1946.57	1960.8	1958.06	1954.47	1959.85	1955.5	
G8	1958.1	1930.99	1936.06	1947.42	1963.0	1956.49	1954.42	1959.81	1958.1	
G9	1945.08	1918.51	1933.73	1943.83	1955.05	1952.54	1951.14	1953.79	1945.08	
G10	1941.31	1908.54	1927.89	1934.98	1949.08	1948.36	1943.2	1948.54	1941.31	
G11	1935.43	1900.64	1924.17	1924.3	1942.62	1952.0	1938.66	1952.45	1935.43	
G12	1930.27	1891.93	1911.73	1918.33	1939.74	1942.7	1936.29	1941.85	1930.27	
G13	1921.61	1882.55	1905.4	1910.29	1933.5	1941.27	1933.32	1933.59	1921.61	
G14	1916.49	1870.93	1895.48	1907.06	1925.2	1931.8	1920.04	1934.18	1916.49	
G15	1905.18	1861.18	1889.02	1889.51	1917.75	1928.74	1915.68	1920.66	1905.18	
G16	1895.66	1851.8	1883.36	1883.09	1910.97	1922.41	1905.13	1917.34	1895.66	
G17	1884.03	1841.21	1867.11	1870.48	1901.9	1914.24	1897.77	1906.39	1884.03	
G18	1875.37	1821.77	1853.73	1863.29	1891.8	1906.48	1887.09	1899.92	1875.37	
G19	1865.49	1806.64	1848.93	1844.84	1880.58	1900.6	1881.92	1887.4	1865.49	
G20	1846.69	1790.66	1827.56	1829.45	1870.34	1888.7	1869.18	1877.75	1846.69	
G21	1832.68	1774.86	1816.83	1814.36	1853.6	1875.64	1858.72	1867.2	1832.68	
G22	1822.62	1756.73	1799.42	1800.67	1843.77	1867.29	1840.45	1857.01	1822.62	
G23	1803.55	1738.55	1782.54	1787.25	1824.82	1855.48	1829.94	1840.4	1803.55	
G24	1786.17	1717.94	1763.46	1763.82	1811.85	1839.68	1813.42	1824.02	1786.17	
G25	1765.34	1695.85	1744.56	1742.63	1793.45	1832.1	1798.34	1809.43	1765.34	
G26	1746.76	1674.26	1723.24	1723.24	1776.75	1813.06	1780.88	1794.07	1746.76	
G27	1724.85	1647.96	1704.74	1703.76	1759.24	1796.77	1759.78	1771.94	1724.85	
G28	1705.42	1623.45	1680.46	1679.29	1738.37	1778.45	1740.12	1751.92	1705.42	
G29	1679.56	1596.33	1659.05	1655.77	1714.44	1762.7	1718.75	1733.11	1679.56	
G30	1660.08	1567.74	1630.94	1627.53	1694.01	1743.3	1697.92	1715.2	1660.08	
G31	1629.15	1538.11	1606.57	1598.31	1672.11	1722.56	1673.9	1690.24	1629.15	
G32	1605.76	1507.05	1578.02	1573.35	1643.6	1698.19	1648.23	1668.47	1605.76	
G33	1574.02	1472.17	1547.36	1542.11	1618.37	1674.94	1622.19	1639.07	1574.02	
G34	1544.35	1441.15	1516.25	1509.61	1591.75	1650.65	1592.47	1612.54	1544.35	
G35	1511.22	1406.36	1485.77	1475.44	1558.67	1627.17	1563.97	1585.25	1511.22	
G36	1479.8	1365.64	1450.4	1441.1	1528.82	1605.13	1531.92	1557.32	1479.8	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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.:

Test Time: 2024/7/10 18:33:25

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1444.2	1329.55	1415.38	1403.26	1496.0	1567.47	1502.78	1522.22	1444.2	
G38	1409.1	1285.43	1376.19	1366.9	1461.35	1541.61	1465.88	1488.96	1409.1	
G39	1372.92	1244.8	1340.28	1326.86	1426.87	1510.01	1429.97	1454.21	1372.92	
G40	1329.06	1200.94	1301.41	1284.03	1389.71	1475.18	1392.22	1420.23	1329.06	
G41	1286.1	1157.49	1259.39	1240.63	1347.33	1440.21	1352.49	1378.89	1286.1	
G42	1245.43	1113.72	1212.34	1199.1	1309.62	1403.08	1312.72	1339.88	1245.43	
G43	1199.51	1069.33	1171.4	1155.92	1263.38	1363.26	1271.38	1300.06	1199.51	
G44	1153.99	1023.99	1124.05	1106.31	1221.28	1323.04	1223.16	1256.11	1153.99	
G45	1107.12	978.87	1080.68	1061.11	1176.03	1281.88	1181.01	1211.58	1107.12	
G46	1063.22	931.69	1033.91	1016.35	1131.86	1236.5	1136.44	1167.32	1063.22	
G47	1015.95	888.55	989.15	968.05	1083.56	1195.24	1091.73	1122.7	1015.95	
G48	968.19	840.3	944.13	922.4	1038.84	1149.99	1045.26	1073.5	968.19	
G49	921.1	795.85	898.47	873.83	991.35	1102.5	997.5	1025.2	921.1	
G50	875.98	751.86	851.74	828.76	945.83	1055.9	950.32	979.95	875.98	
G51	829.57	710.79	808.33	782.88	899.06	1011.1	905.61	933.44	829.57	
G52	784.05	666.12	764.57	738.35	854.57	965.76	858.97	887.7	784.05	
G53	738.49	625.05	720.04	696.11	808.06	921.1	812.78	841.1	738.49	
G54	694.36	582.9	676.0	652.93	761.33	872.26	768.11	797.43	694.36	
G55	650.82	543.8	636.85	610.06	718.78	828.44	723.04	751.19	650.82	
G56	606.42	503.58	593.54	570.33	675.41	781.71	677.93	707.29	606.42	
G57	565.97	466.45	554.39	530.42	633.13	737.45	637.35	664.91	565.97	
G58	528.13	428.16	515.47	491.55	592.46	696.15	596.63	623.97	528.13	
G59	487.01	393.1	476.55	453.21	551.83	652.52	558.03	582.36	487.01	
G60	450.07	356.97	439.11	416.13	513.32	608.62	516.82	542.18	450.07	
G61	412.36	322.18	402.89	380.35	474.49	569.88	478.35	502.59	412.36	
G62	376.63	288.87	367.07	345.47	437.59	530.02	441.36	464.39	376.63	
G63	341.52	257.26	333.13	311.99	400.91	491.95	404.95	427.8	341.52	
G64	307.59	225.66	300.09	279.22	366.26	454.69	368.95	392.7	307.59	
G65	274.5	196.21	266.47	247.25	330.61	417.57	334.7	357.73	274.5	
G66	242.81	167.08	234.55	216.86	296.09	381.16	300.81	324.02	242.81	
G67	211.48	140.15	205.28	186.97	263.77	346.64	266.87	289.9	211.48	
G68	181.13	114.78	175.79	158.64	231.99	311.72	234.46	257.22	181.13	
G69	153.12	90.14	147.91	131.48	201.2	278.0	204.56	225.08	153.12	
G70	127.08	67.56	121.61	105.85	172.38	246.31	175.34	194.55	127.08	
G71	101.18	46.6	96.38	81.83	144.01	214.71	147.33	165.2	101.18	
G72	77.12	29.18	73.08	59.66	117.61	184.36	120.53	137.05	77.12	
G73	55.39	15.44	52.39	39.32	92.34	155.68	95.21	110.92	55.39	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:33:25

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 18:33:25

Remarks: