

Report No.:

Test Time: 2024/7/25 11:53:49

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-32.6W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

Voltage(V): 219.70 V
Current(A): 0.1530 A
Power(W): 32.55 W
Power Factor: 0.9660
Lamp Luminous Flux: 3657.27

Photometric Results

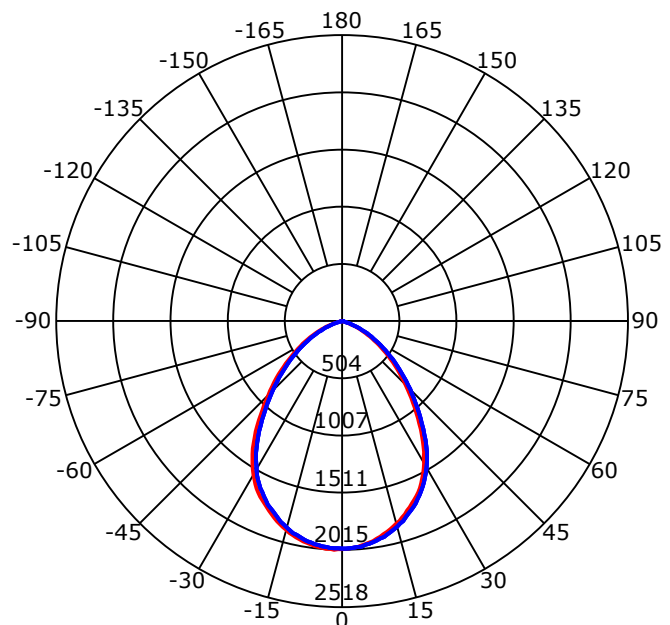
CIE Class: Direct
Luminaire Luminous Flux: 3657.274 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 112.36 lm/W
Beam Angle(50%) C0-180,C90-270: 82.6,82.8
Field Angle(10%) C0-180,C90-270: 131.8,131.8
S/MH C0-180,C90-270: 1.109,1.109

Max. Intensity: 2014.66 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2008.69 cd
Effective Luminous Flux: 3543.90 lm
ERP(ϕ use)(120deg): 3387.10 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 82.6 deg,82.8 deg

C0-180 — C90-270 —

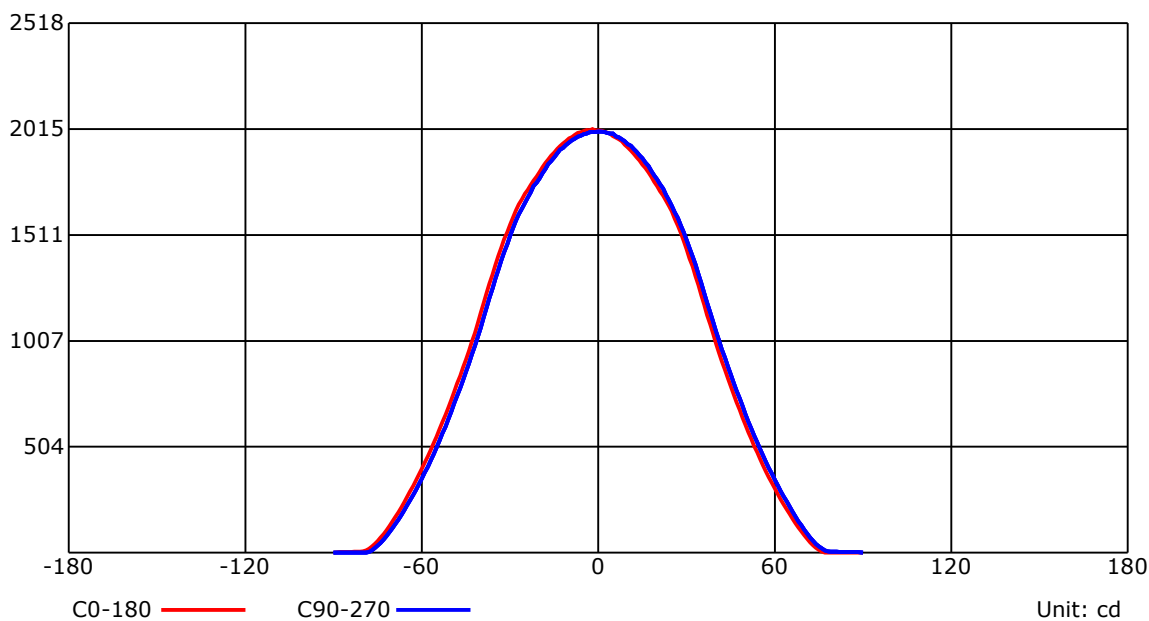
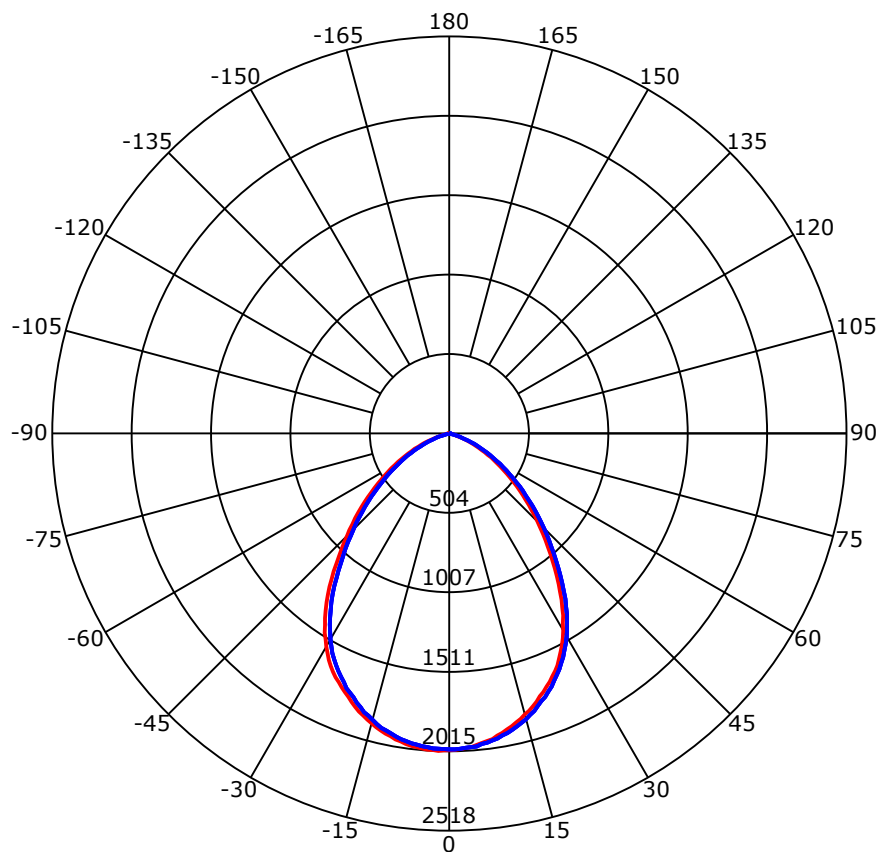
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:53:49

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

Report No.:

Test Time: 2024/7/25 11:53:49

Luminous Intensity Distribution Curve



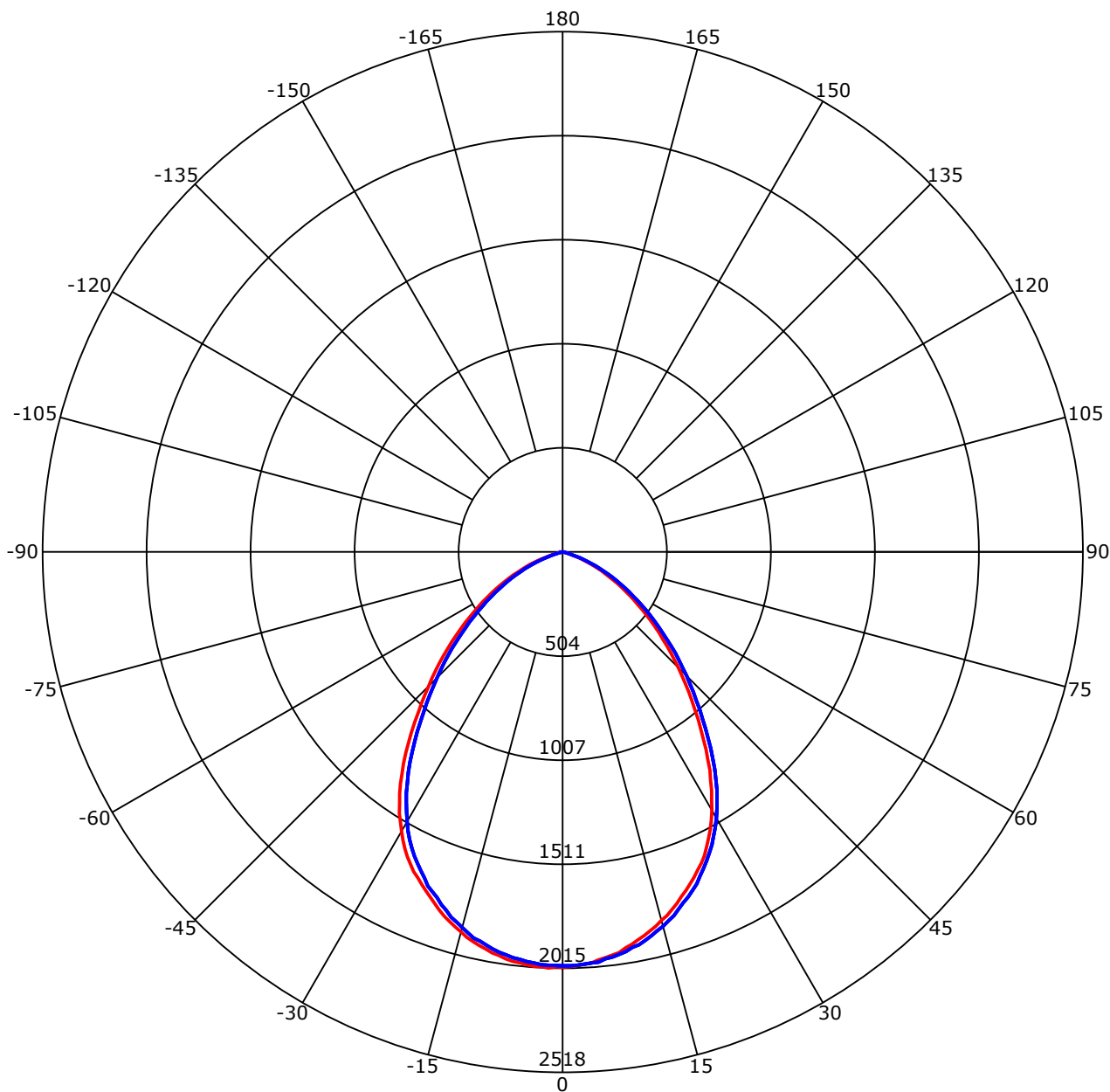
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:53:49

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Test System: Huipu CPM-1600B Goniophotometer
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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: 2024/7/25 11:53:49

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

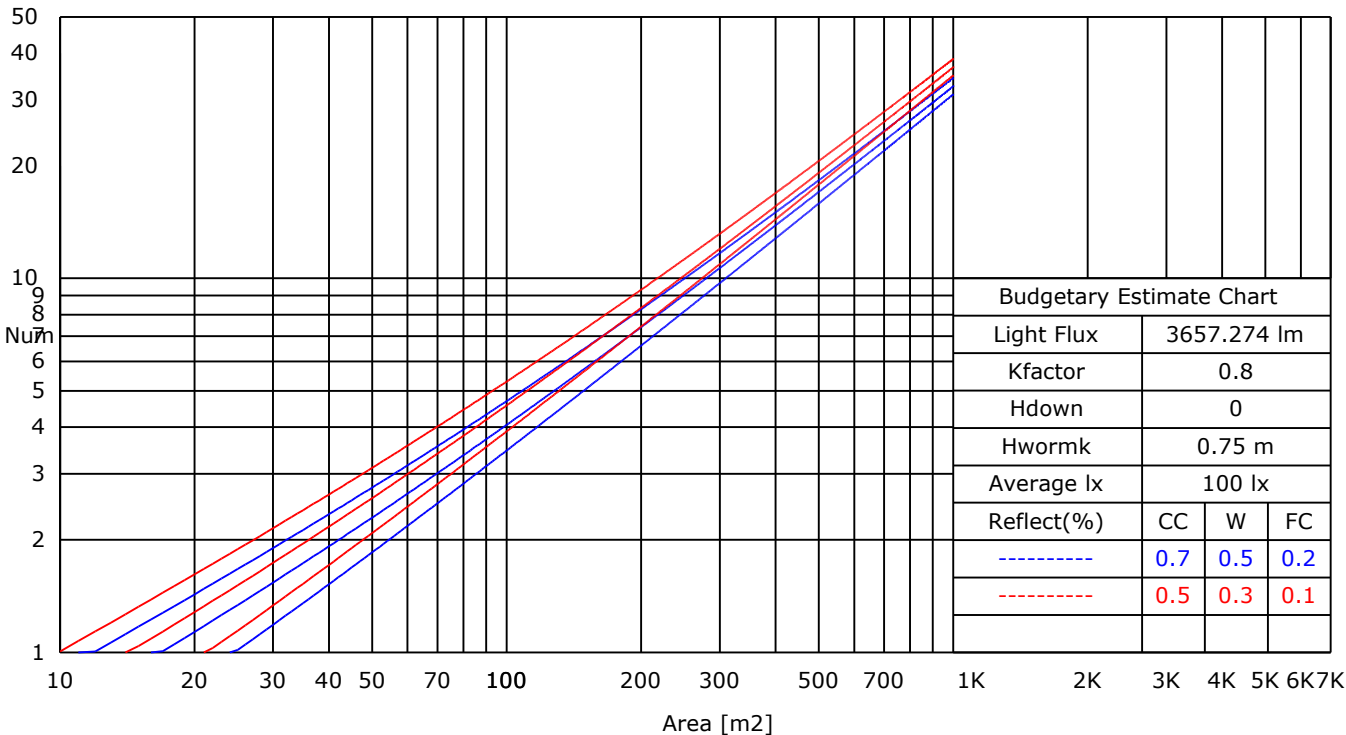
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UTILIZATION FACTORS TABLE

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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	1.00	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	1.00	0.98	0.97	0.99	0.97	0.95	0.95	0.93	0.91	0.91	0.89	0.86	0.86	0.83	0.80	0.76
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.85	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
4	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.79	0.76	0.72	0.76	0.72	0.68	0.64
5	0.79	0.77	0.75	0.78	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.67	0.71	0.67	0.63	0.59
6	0.73	0.71	0.70	0.73	0.70	0.68	0.72	0.68	0.65	0.70	0.65	0.62	0.67	0.62	0.59	0.55
7	0.68	0.66	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.66	0.61	0.58	0.64	0.59	0.55	0.51
8	0.64	0.62	0.61	0.64	0.61	0.60	0.63	0.59	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.48
9	0.60	0.58	0.57	0.60	0.58	0.56	0.60	0.56	0.53	0.59	0.54	0.51	0.57	0.52	0.48	0.45
10	0.57	0.55	0.54	0.57	0.54	0.53	0.56	0.53	0.50	0.56	0.51	0.48	0.54	0.49	0.45	0.42

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



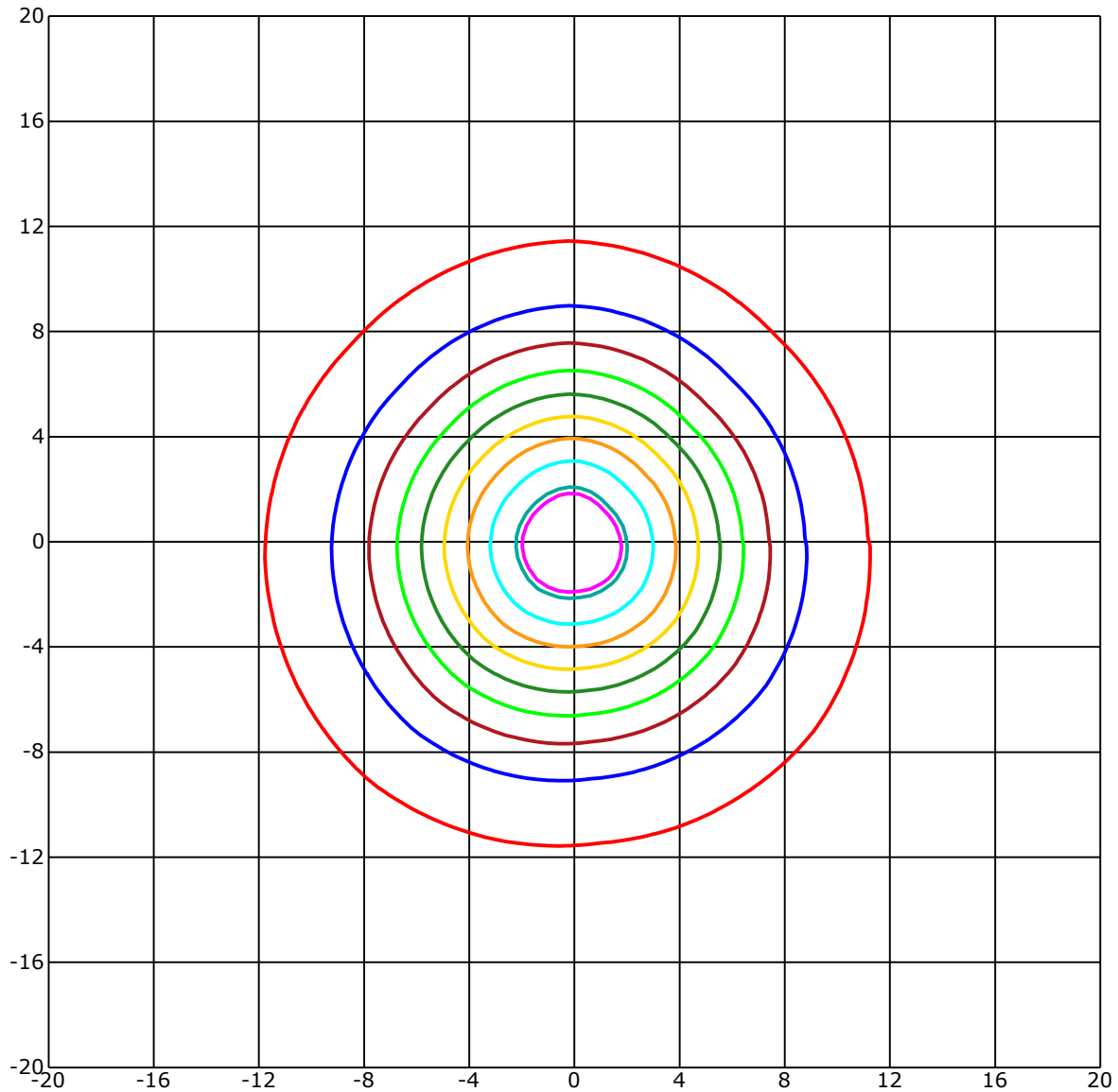
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:53:49

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)

18.501(92%Emax)	10.055(50%Emax)
18.099(90%Emax)	8.044(40%Emax)
16.088(80%Emax)	6.033(30%Emax)
14.077(70%Emax)	4.022(20%Emax)
12.066(60%Emax)	2.011(10%Emax)

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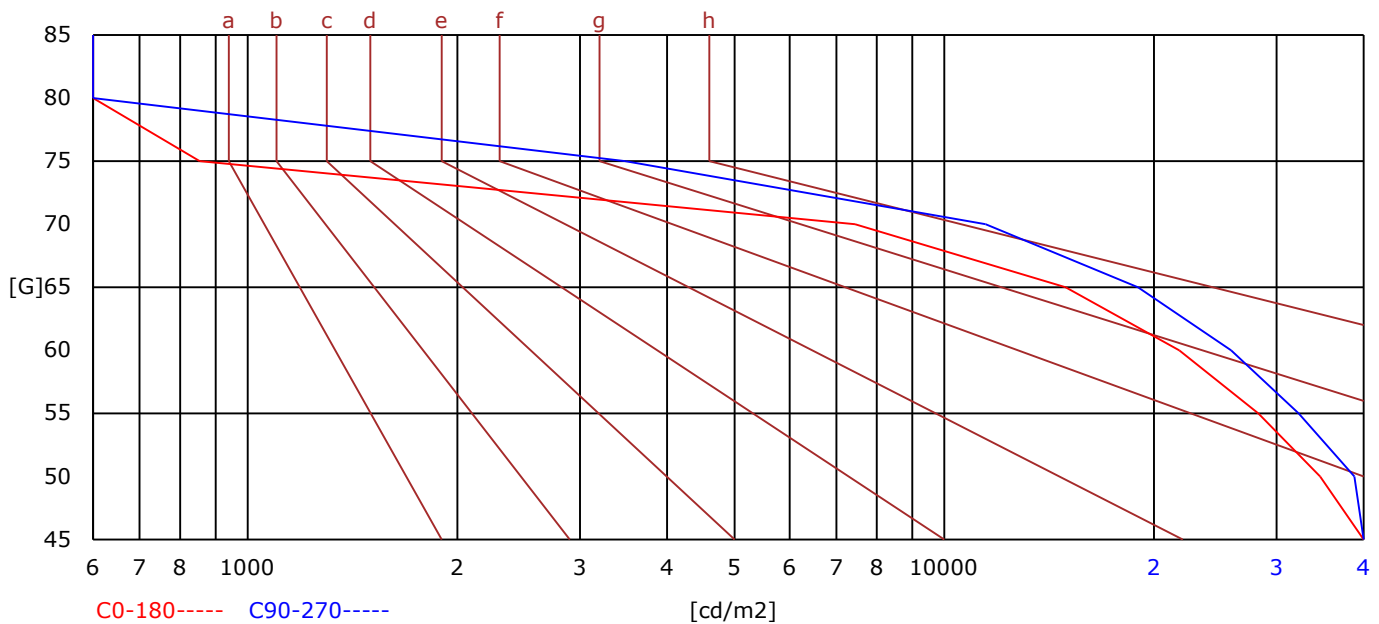
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	41250	34648	28230	21747	14937	7444	854	0	0
C90	45619	38789	32271	25794	18966	11469	3482	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



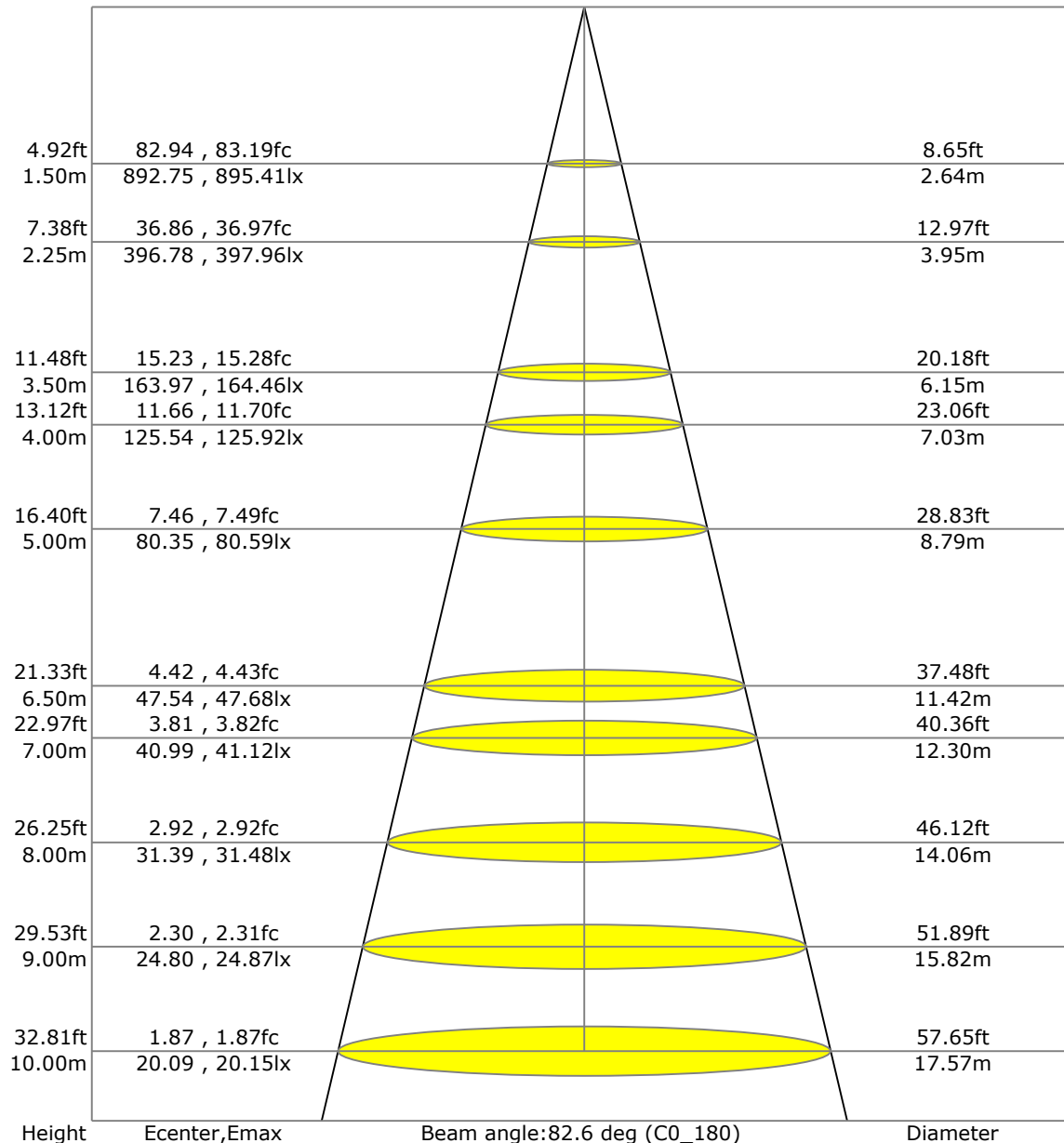
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 11:53:49

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: 2024/7/25 11:53:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

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	15.66	15.72	15.86	15.91	16.15	15.82	15.89	16.02	16.08	16.32
3H	15.65	15.72	15.86	15.91	16.16	15.81	15.88	16.02	16.07	16.32
4H	15.63	15.69	15.84	15.89	16.14	15.79	15.85	16.00	16.05	16.30
6H	15.61	15.67	15.82	15.87	16.12	15.76	15.82	15.98	16.03	16.28
8H	15.59	15.65	15.81	15.86	16.11	15.75	15.81	15.97	16.01	16.27
12H	15.58	15.64	15.80	15.84	16.10	15.74	15.80	15.96	16.00	16.26
4H 2H	16.07	16.13	16.28	16.33	16.58	16.35	16.41	16.56	16.60	16.85
3H	16.06	16.12	16.29	16.33	16.58	16.33	16.39	16.55	16.59	16.85
4H	16.04	16.09	16.27	16.31	16.56	16.30	16.36	16.53	16.57	16.83
6H	16.01	16.06	16.24	16.28	16.54	16.27	16.32	16.51	16.54	16.81
8H	15.99	16.04	16.23	16.26	16.53	16.25	16.30	16.50	16.53	16.80
12H	15.97	16.02	16.22	16.25	16.52	16.24	16.28	16.48	16.51	16.78
8H 4H	16.03	16.09	16.25	16.30	16.55	16.31	16.37	16.53	16.57	16.83
6H	15.95	16.00	16.21	16.24	16.51	16.22	16.26	16.47	16.50	16.78
8H	15.93	15.98	16.19	16.22	16.50	16.20	16.24	16.46	16.49	16.76
12H	15.91	15.95	16.18	16.20	16.49	16.18	16.22	16.45	16.47	16.75
12H 4H	15.97	16.02	16.22	16.25	16.52	16.24	16.29	16.49	16.52	16.79
6H	15.93	15.98	16.19	16.22	16.50	16.20	16.24	16.46	16.49	16.76

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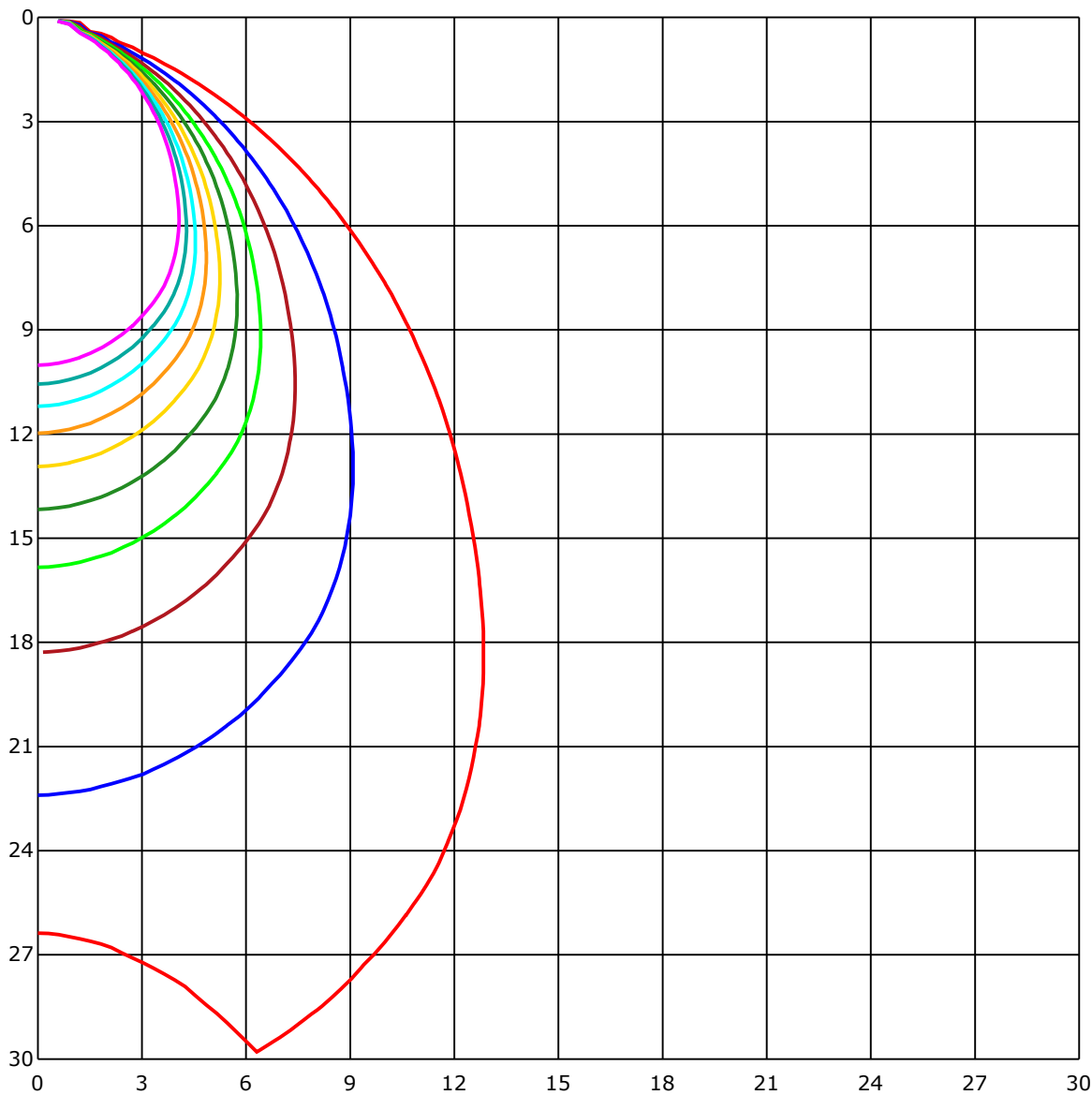
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



20.023	10.012
18.021	8.009
16.018	6.007
14.016	4.005
12.014	2.002

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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	2008.69	1999.54	2002.59	2007.3	2008.69	1999.54	2002.59	2007.3	2008.69	
G1	2007.35	1995.18	2003.22	2003.31	2008.65	2000.7	2000.84	2004.29	2007.35	
G2	2002.05	1990.38	2001.15	2005.33	2014.66	2003.49	2000.88	2005.95	2002.05	
G3	1998.41	1982.57	1996.57	2000.66	2009.41	2002.32	1999.63	2004.92	1998.41	
G4	1993.34	1972.42	1993.97	1997.52	2010.0	2001.6	1993.16	2001.42	1993.34	
G5	1981.71	1969.37	1992.94	1988.99	2005.19	1998.1	1990.02	1992.53	1981.71	
G6	1974.31	1956.94	1979.42	1986.2	1999.09	1994.82	1982.57	1992.35	1974.31	
G7	1965.6	1948.81	1974.53	1973.99	1995.9	1996.12	1978.35	1979.65	1965.6	
G8	1957.61	1932.78	1965.73	1969.06	1987.42	1987.64	1969.1	1975.52	1957.61	
G9	1940.06	1919.63	1957.47	1957.47	1976.6	1981.09	1961.42	1961.83	1940.06	
G10	1928.12	1905.4	1942.66	1941.9	1970.09	1968.7	1951.05	1954.29	1928.12	
G11	1912.13	1891.62	1936.15	1930.9	1956.8	1962.19	1938.08	1943.74	1912.13	
G12	1897.99	1873.93	1920.57	1919.95	1946.57	1950.56	1925.6	1927.98	1897.99	
G13	1881.47	1860.24	1906.79	1909.13	1933.82	1941.72	1917.07	1912.76	1881.47	
G14	1865.36	1839.1	1889.96	1886.19	1921.07	1925.11	1899.34	1904.14	1865.36	
G15	1845.65	1824.06	1875.77	1868.77	1902.93	1916.85	1880.44	1886.64	1845.65	
G16	1830.44	1800.22	1856.61	1848.84	1887.76	1896.33	1862.8	1864.15	1830.44	
G17	1809.47	1781.95	1840.4	1831.29	1870.25	1884.08	1848.08	1847.45	1809.47	
G18	1788.64	1759.02	1815.98	1812.48	1853.82	1864.91	1824.15	1832.32	1788.64	
G19	1762.97	1736.84	1793.94	1786.44	1833.13	1847.81	1804.08	1807.77	1762.97	
G20	1744.07	1713.0	1776.34	1764.04	1811.18	1826.71	1780.11	1790.03	1744.07	
G21	1720.05	1688.18	1752.82	1743.35	1789.85	1809.2	1761.12	1770.69	1720.05	
G22	1697.79	1665.42	1731.27	1718.48	1769.16	1786.26	1743.08	1751.97	1697.79	
G23	1673.01	1637.59	1701.56	1691.81	1747.61	1766.69	1713.68	1723.37	1673.01	
G24	1649.17	1606.97	1676.87	1668.43	1725.66	1745.46	1688.4	1707.39	1649.17	
G25	1622.91	1580.4	1649.3	1639.61	1706.81	1722.56	1662.77	1680.46	1622.91	
G26	1588.48	1549.42	1619.54	1613.71	1681.13	1698.46	1637.86	1651.91	1588.48	
G27	1554.36	1508.98	1591.22	1579.95	1656.76	1677.85	1609.17	1621.65	1554.36	
G28	1520.83	1473.11	1556.07	1545.43	1627.4	1647.96	1578.78	1592.43	1520.83	
G29	1482.72	1433.56	1523.97	1508.75	1594.0	1618.24	1544.31	1558.54	1482.72	
G30	1443.35	1391.41	1488.55	1474.5	1560.92	1589.6	1507.14	1526.66	1443.35	
G31	1399.27	1350.74	1450.4	1435.36	1525.14	1555.44	1467.28	1487.74	1399.27	
G32	1361.2	1309.98	1408.69	1396.17	1491.65	1520.16	1429.16	1449.45	1361.2	
G33	1314.51	1262.22	1370.67	1351.01	1449.23	1486.85	1389.66	1408.33	1314.51	
G34	1273.4	1216.56	1324.97	1309.13	1412.02	1446.27	1344.73	1370.31	1273.4	
G35	1223.93	1173.87	1281.79	1261.86	1368.65	1407.48	1303.2	1322.15	1223.93	
G36	1180.74	1123.69	1235.19	1220.47	1322.91	1363.53	1257.23	1280.31	1180.74	

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G Interval: 1.0 Deg
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	1130.6	1075.07	1190.03	1169.03	1279.54	1323.13	1211.31	1233.31	1130.6	
G38	1085.8	1027.85	1141.73	1122.43	1234.07	1274.34	1163.55	1187.79	1085.8	
G39	1041.49	985.47	1098.37	1074.62	1186.08	1233.62	1118.66	1139.31	1041.49	
G40	994.99	944.44	1052.76	1030.9	1140.79	1185.46	1069.77	1091.86	994.99	
G41	951.31	904.49	1011.82	986.46	1091.95	1139.58	1026.54	1048.95	951.31	
G42	910.64	861.53	966.8	944.35	1044.86	1091.86	983.41	1007.65	910.64	
G43	869.97	824.36	927.7	902.6	1002.21	1049.71	940.89	962.26	869.97	
G44	829.75	784.41	886.17	864.99	958.67	1005.18	899.1	921.68	829.75	
G45	791.5	746.7	848.2	825.8	917.96	962.35	860.09	883.35	791.5	
G46	754.47	709.58	808.69	789.17	881.37	921.05	821.71	843.89	754.47	
G47	715.55	675.33	770.94	749.17	840.48	881.24	783.64	804.79	715.55	
G48	678.92	638.65	734.0	712.81	803.8	842.72	745.49	766.54	678.92	
G49	642.02	603.82	697.14	674.61	764.21	804.11	709.26	728.92	642.02	
G50	608.39	570.15	658.13	638.29	726.86	765.64	670.43	692.74	608.39	
G51	573.29	537.92	623.43	602.51	690.09	729.15	634.88	654.72	573.29	
G52	542.41	504.79	590.53	569.38	655.62	693.15	599.19	620.92	542.41	
G53	508.07	474.44	557.35	537.06	619.75	655.39	566.56	586.62	508.07	
G54	476.37	444.95	524.0	503.8	586.53	618.99	531.63	553.18	476.37	
G55	444.37	414.51	492.62	473.86	551.56	584.87	499.85	519.65	444.37	
G56	414.83	385.87	462.46	443.2	520.59	551.02	467.98	487.37	414.83	
G57	386.28	358.72	431.39	413.39	488.63	519.38	439.47	457.88	386.28	
G58	358.04	331.06	402.17	386.01	458.24	486.83	408.23	426.68	358.04	
G59	330.44	305.16	374.34	357.06	428.83	457.16	380.53	396.69	330.44	
G60	305.3	278.36	346.19	330.17	399.84	426.54	352.43	368.19	305.3	
G61	278.5	253.49	320.11	303.32	371.69	397.37	325.86	340.8	278.5	
G62	253.9	228.76	293.45	277.15	344.31	368.95	299.28	314.19	253.9	
G63	230.11	205.82	267.81	253.18	316.52	341.61	274.19	288.69	230.11	
G64	206.63	182.7	243.8	228.04	290.93	314.72	248.92	263.73	206.63	
G65	184.23	161.6	219.47	205.19	265.43	289.5	225.35	238.9	184.23	
G66	162.5	139.7	195.0	182.93	239.94	263.37	201.65	215.11	162.5	
G67	140.69	119.45	172.2	160.62	215.16	239.58	178.57	192.31	140.69	
G68	120.31	99.93	149.98	139.29	192.8	214.84	157.03	170.18	120.31	
G69	101.41	82.1	129.1	119.32	169.82	192.17	136.6	148.36	101.41	
G70	82.78	65.18	108.54	100.42	148.36	169.82	116.44	128.07	82.78	
G71	65.36	49.51	90.23	81.79	127.26	148.27	97.14	107.87	65.36	
G72	49.78	35.19	72.09	64.82	107.51	127.08	79.1	89.6	49.78	
G73	35.24	22.98	56.34	49.47	88.39	107.65	62.08	72.09	35.24	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/25 11:53:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: