

Report No.:

Test Time: 2024/7/10 10:12:24

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

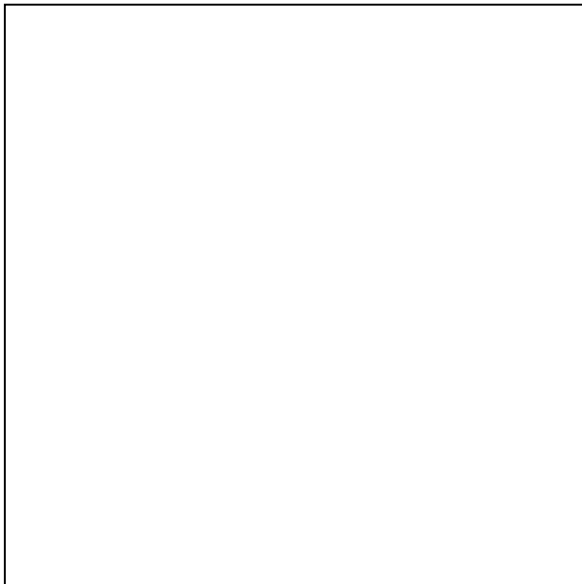
Voltage(V): 219.70 V
Current(A): 0.1910 A
Power(W): 41.24 W
Power Factor: 0.9810
Lamp Luminous Flux: 4455.82

Photometric Results

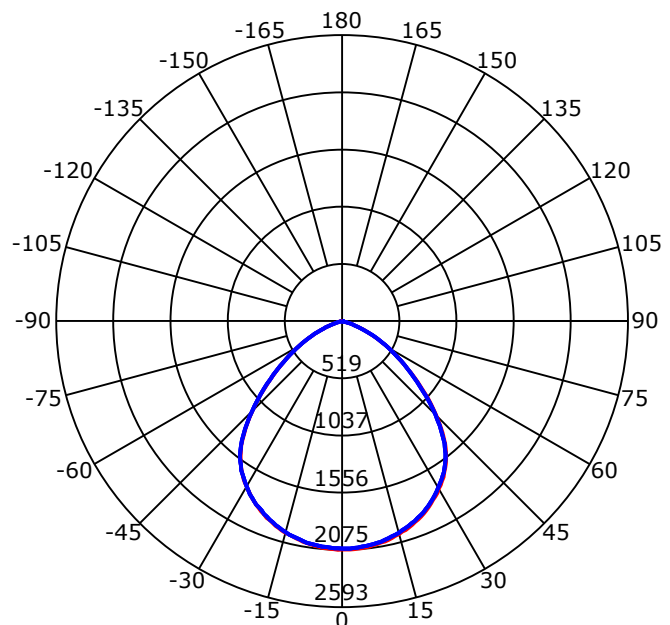
CIE Class: Direct
Luminaire Luminous Flux: 4455.815 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.05 lm/W
Beam Angle(50%) C0-180,C90-270: 95.2,95.3
Field Angle(10%) C0-180,C90-270: 135.1,135.3
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 2074.68 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2071.14 cd
Effective Luminous Flux: 4363.43 lm
ERP(ϕ use)(120deg): 4114.61 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 95.2 deg,95.3 deg

C0-180 — C90-270 —

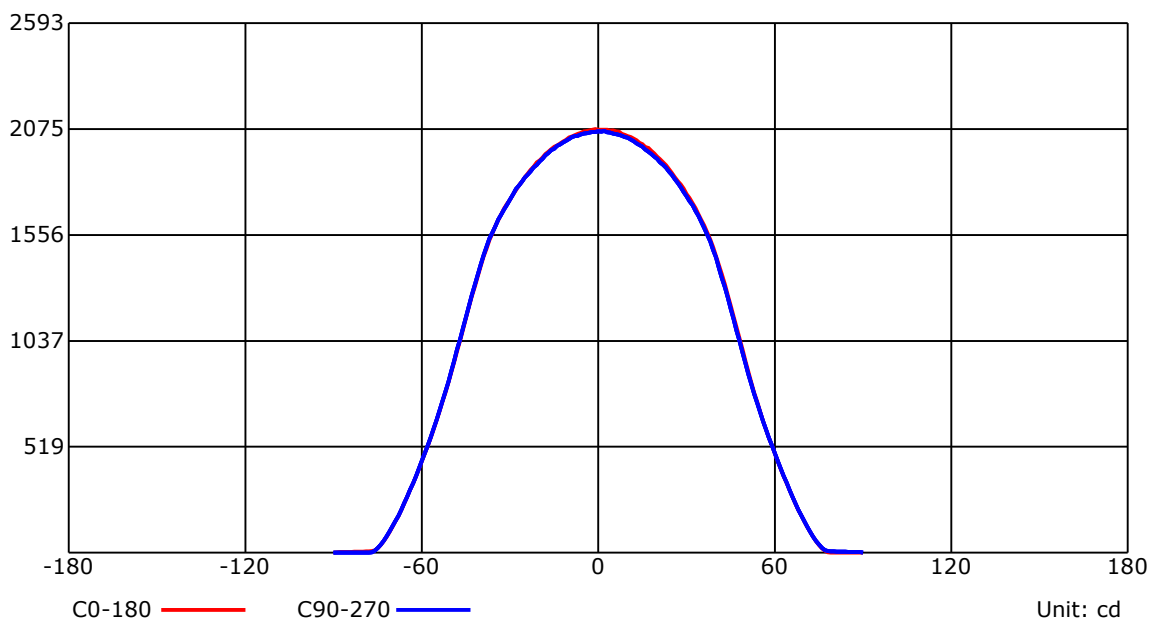
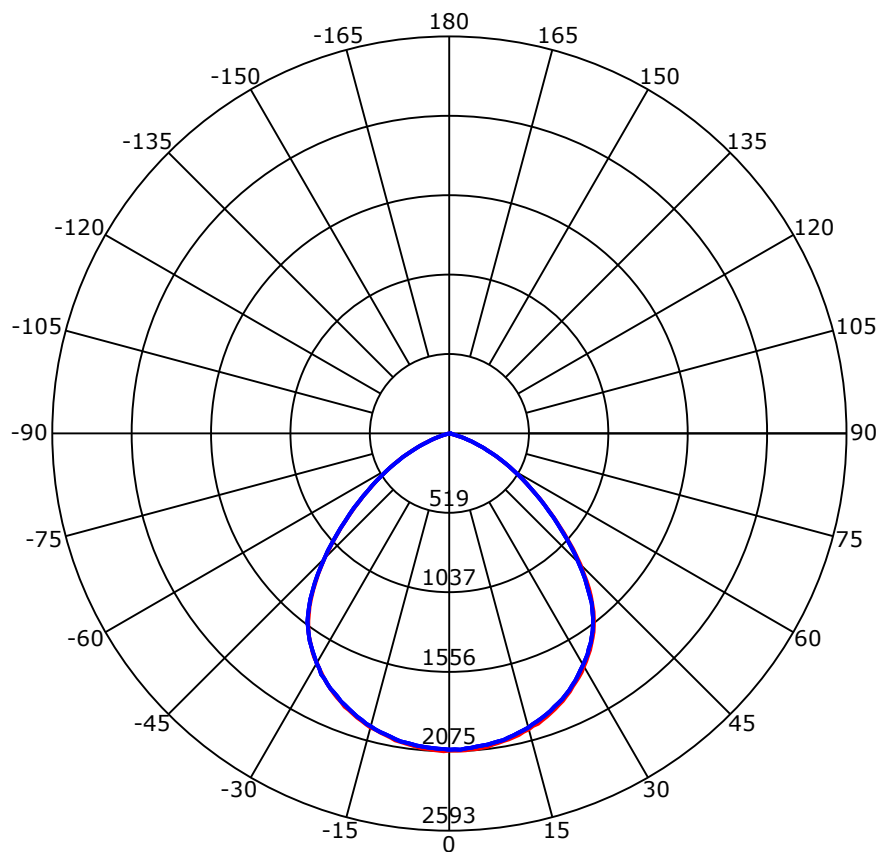
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:12:24

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



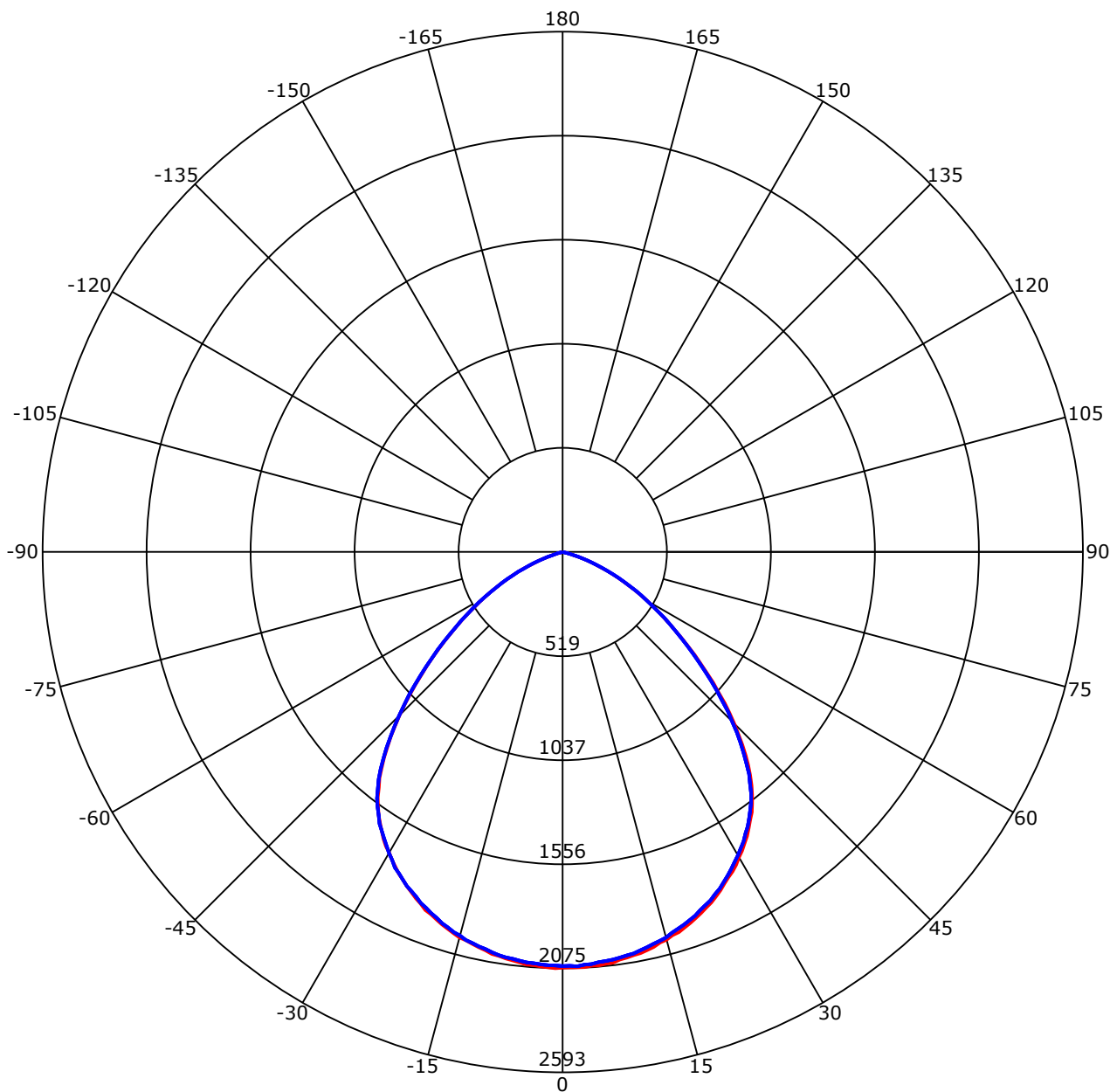
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:12:24

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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 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 10:12:24

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

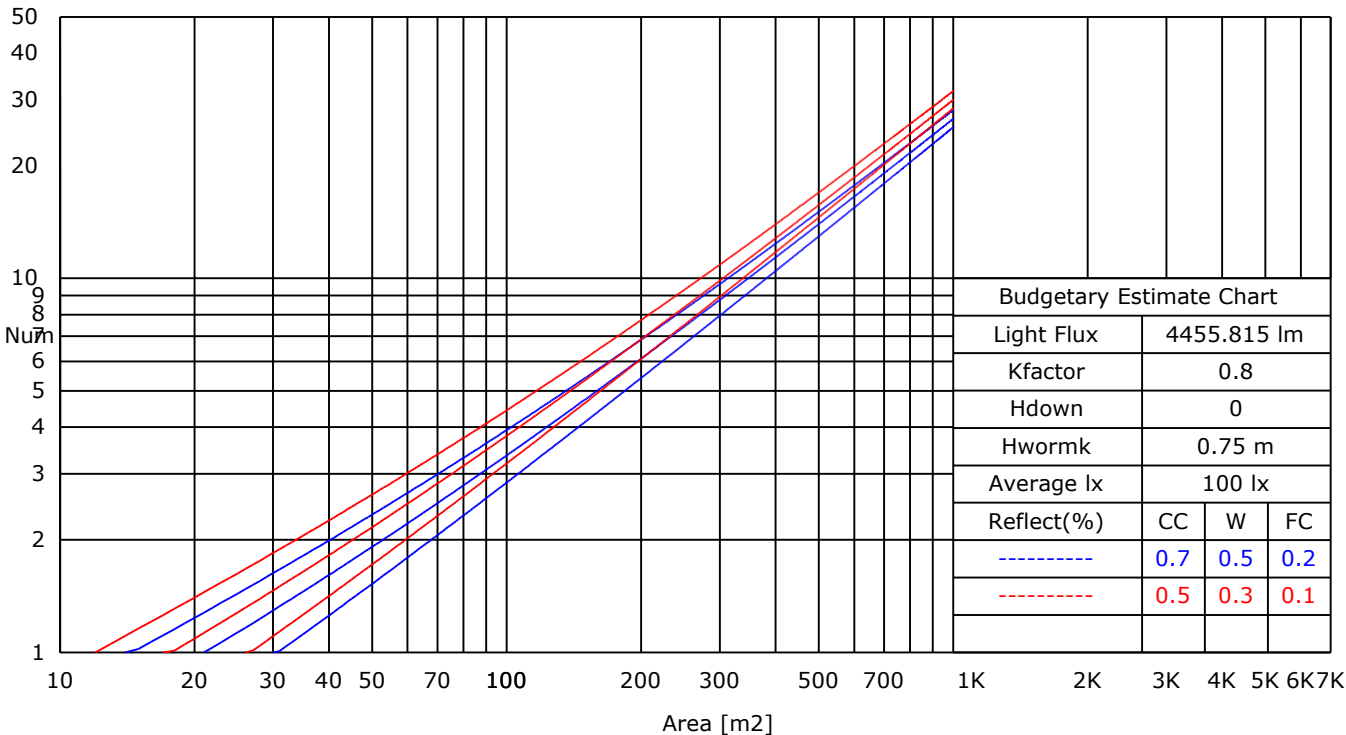
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UTILIZATION FACTORS TABLE

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	1.09	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	0.99	0.97	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.76
3	0.92	0.90	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	0.84	0.82	0.81	0.83	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.72	0.75	0.71	0.67	0.63
5	0.77	0.75	0.74	0.77	0.74	0.73	0.76	0.72	0.69	0.73	0.69	0.66	0.71	0.66	0.62	0.58
6	0.72	0.70	0.68	0.71	0.69	0.67	0.70	0.67	0.64	0.69	0.64	0.61	0.66	0.61	0.57	0.54
7	0.67	0.65	0.63	0.66	0.64	0.62	0.66	0.62	0.59	0.64	0.60	0.56	0.62	0.57	0.53	0.50
8	0.62	0.60	0.59	0.62	0.59	0.58	0.61	0.58	0.55	0.60	0.56	0.52	0.59	0.54	0.50	0.46
9	0.58	0.56	0.55	0.58	0.56	0.54	0.58	0.54	0.52	0.57	0.52	0.49	0.56	0.50	0.46	0.43
10	0.55	0.53	0.52	0.55	0.52	0.51	0.54	0.51	0.48	0.54	0.49	0.46	0.53	0.47	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



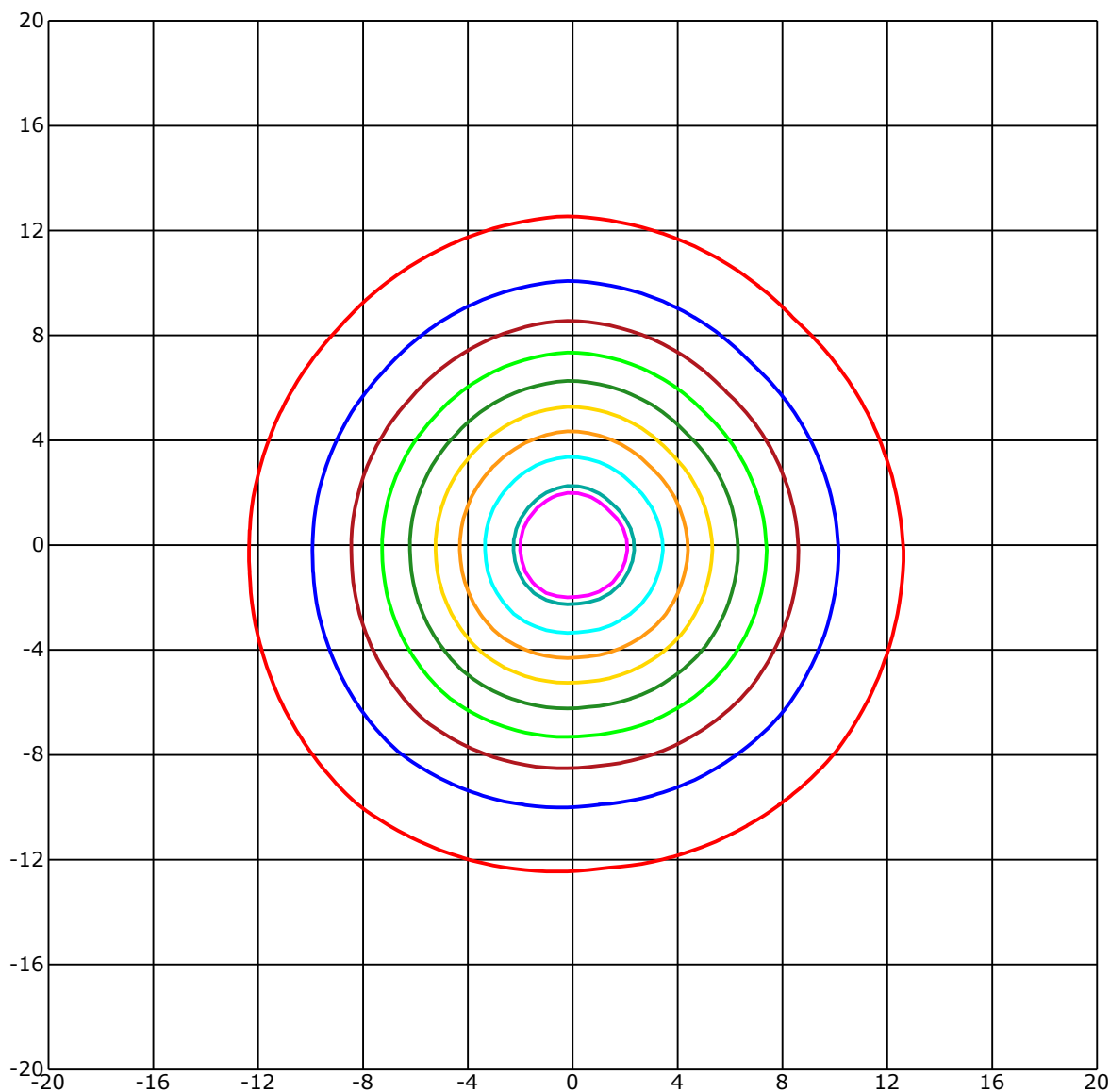
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:12:24

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)

19.078(92%Emax)	10.369(50%Emax)
18.664(90%Emax)	8.295(40%Emax)
16.59(80%Emax)	6.221(30%Emax)
14.516(70%Emax)	4.147(20%Emax)
12.442(60%Emax)	2.074(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:12:24

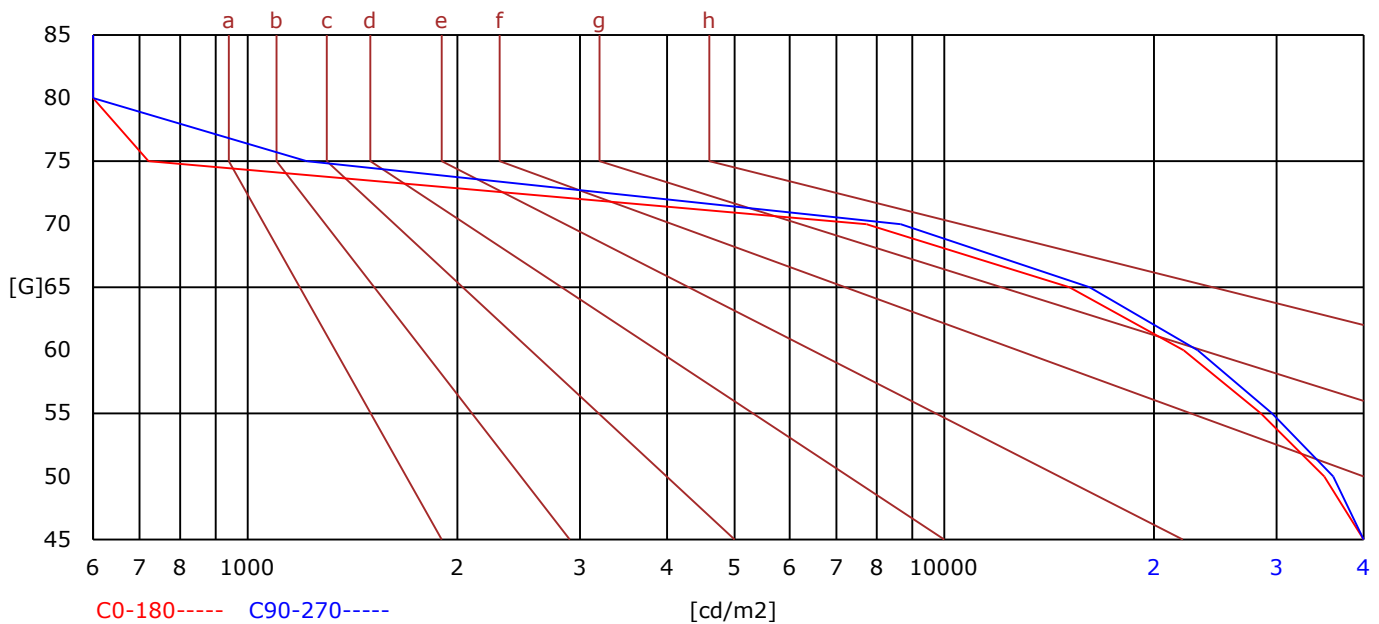
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	42188	35106	28465	22060	15124	7737	721	0	0
C90	43299	36166	29554	23116	16162	8657	1216	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



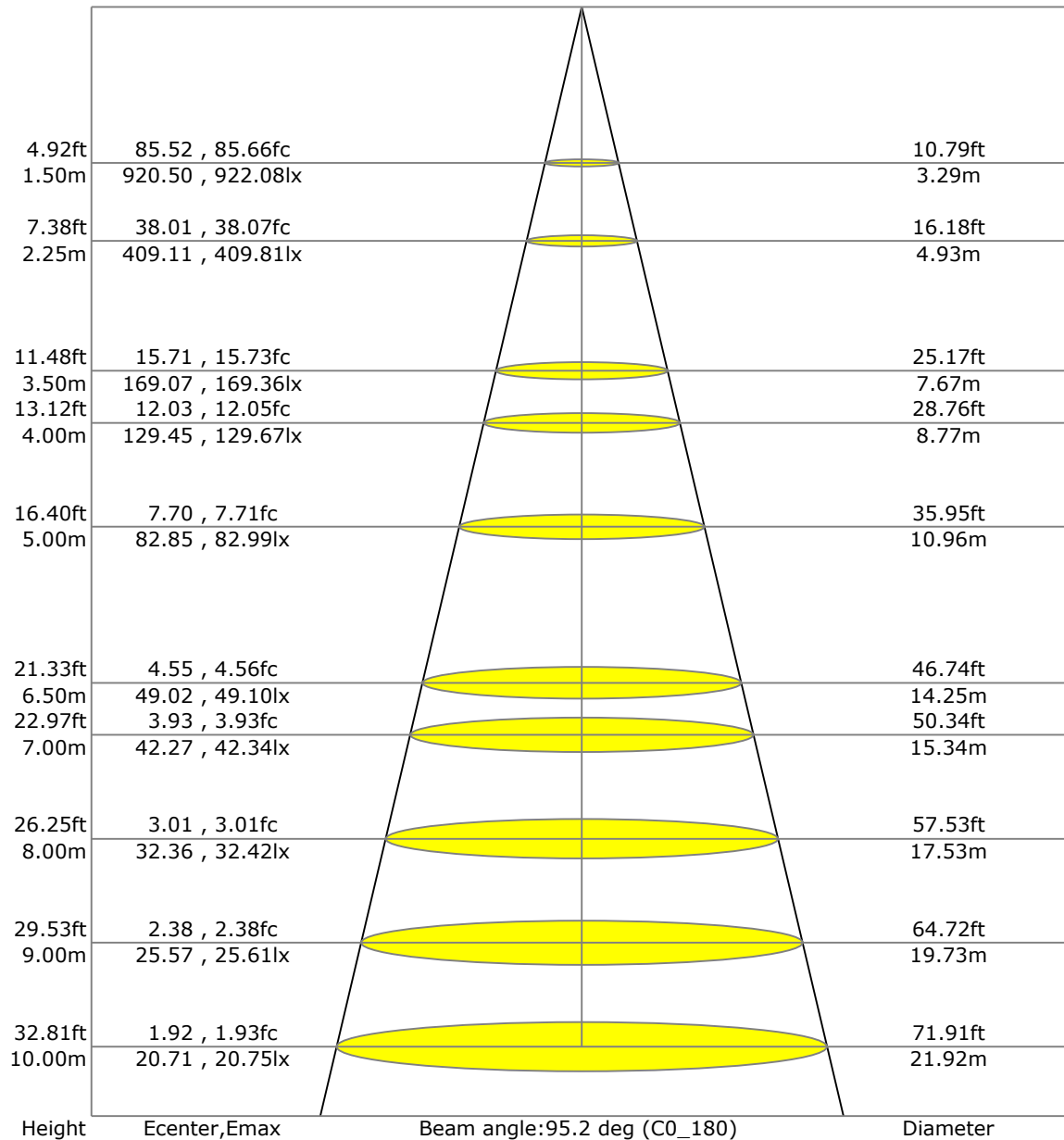
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:12:24

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 10:12:24

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 10:12:24

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	15.74	15.80	15.94	15.99	16.23	15.73	15.79	15.93	15.98	16.22
	3H	15.73	15.80	15.94	15.99	16.24	15.72	15.79	15.93	15.98	16.23
	4H	15.71	15.77	15.92	15.97	16.22	15.70	15.76	15.91	15.96	16.21
	6H	15.68	15.74	15.90	15.94	16.20	15.67	15.73	15.89	15.93	16.19
	8H	15.67	15.73	15.89	15.93	16.19	15.66	15.72	15.88	15.92	16.18
	12H	15.65	15.71	15.88	15.92	16.17	15.64	15.70	15.87	15.91	16.16
4H	2H	16.26	16.32	16.47	16.52	16.76	16.25	16.32	16.46	16.51	16.76
	3H	16.24	16.30	16.47	16.51	16.76	16.24	16.30	16.46	16.51	16.76
	4H	16.22	16.27	16.45	16.48	16.74	16.21	16.27	16.44	16.48	16.74
	6H	16.18	16.24	16.42	16.46	16.72	16.18	16.23	16.42	16.45	16.72
	8H	16.17	16.22	16.41	16.44	16.71	16.16	16.21	16.41	16.44	16.71
	12H	16.15	16.20	16.40	16.43	16.70	16.14	16.19	16.39	16.42	16.69
8H	4H	16.22	16.28	16.44	16.48	16.73	16.21	16.28	16.43	16.48	16.73
	6H	16.13	16.18	16.38	16.41	16.69	16.13	16.17	16.38	16.41	16.68
	8H	16.11	16.15	16.37	16.40	16.67	16.11	16.15	16.37	16.40	16.67
	12H	16.09	16.13	16.36	16.38	16.66	16.09	16.12	16.36	16.38	16.66
12H	4H	16.15	16.20	16.40	16.43	16.70	16.15	16.20	16.40	16.43	16.70
	6H	16.11	16.15	16.37	16.40	16.67	16.11	16.15	16.37	16.40	16.67

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

ZONAL LUMINOUS FLUX TABLE

[illegible]

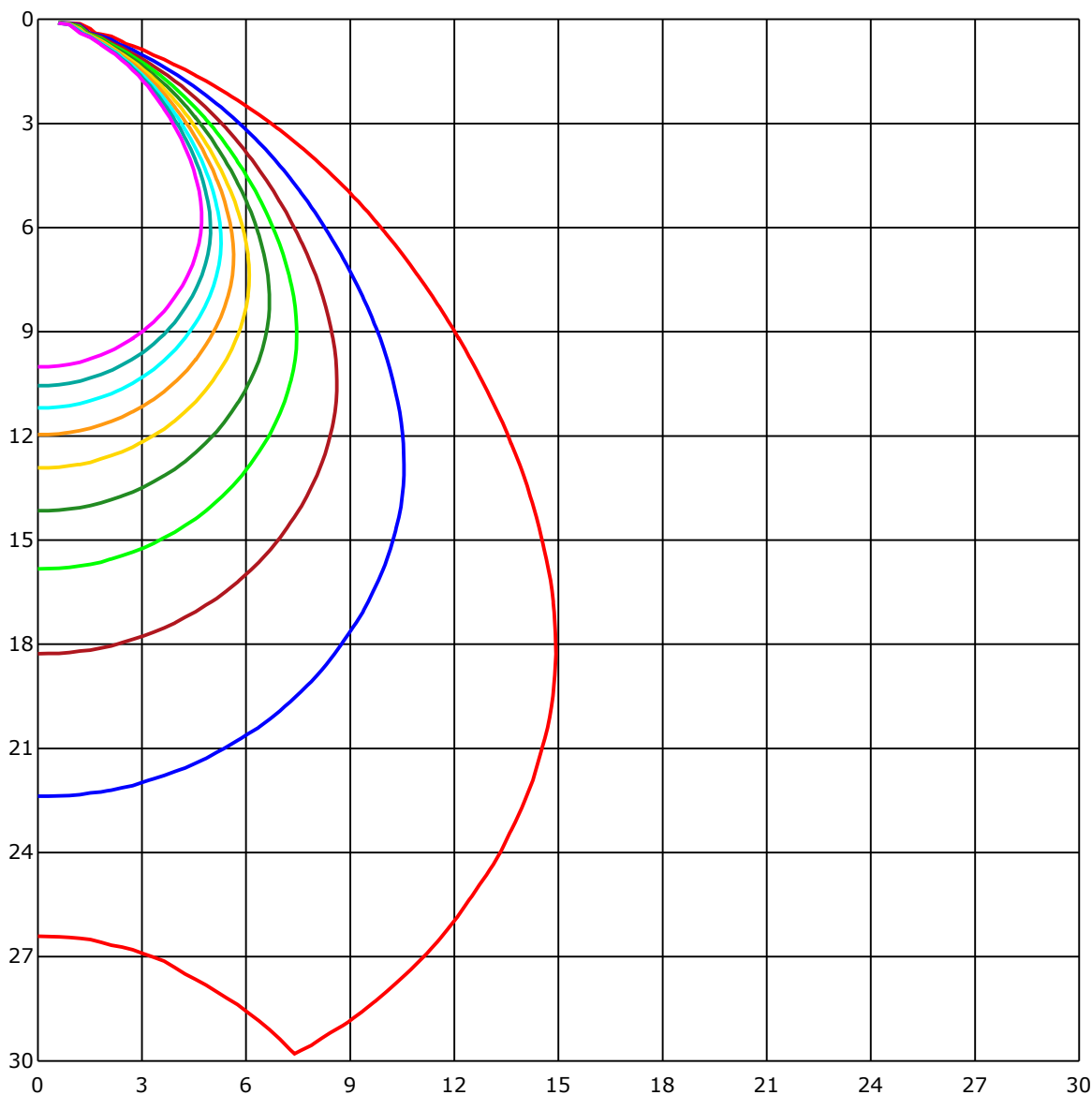
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

20.678	10.339
18.611	8.271
16.543	6.204
14.475	4.136
12.407	2.068

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 10:12:24

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	2071.14	2067.72	2063.91	2067.05	2071.14	2067.72	2063.91	2067.05	2071.14	
G1	2071.14	2062.83	2062.25	2069.83	2074.68	2069.07	2060.45	2069.21	2071.14	
G2	2071.99	2061.66	2065.43	2064.76	2071.49	2070.78	2060.81	2067.63	2071.99	
G3	2071.99	2058.39	2059.28	2066.38	2069.16	2065.93	2057.35	2072.57	2071.99	
G4	2067.05	2054.3	2058.3	2061.3	2064.9	2066.15	2054.71	2066.83	2067.05	
G5	2068.44	2050.89	2052.33	2055.6	2063.91	2062.79	2052.82	2067.36	2068.44	
G6	2063.5	2046.85	2049.86	2047.93	2056.37	2063.01	2048.74	2059.91	2063.5	
G7	2062.2	2038.1	2046.8	2046.72	2051.11	2058.25	2042.27	2057.71	2062.2	
G8	2050.93	2029.75	2041.73	2039.17	2045.46	2052.91	2039.58	2054.75	2050.93	
G9	2046.63	2023.69	2035.99	2037.96	2038.9	2050.98	2034.82	2052.33	2046.63	
G10	2040.34	2012.64	2032.26	2021.85	2034.42	2048.24	2026.51	2040.74	2040.34	
G11	2036.12	2005.42	2022.34	2015.02	2022.12	2036.3	2016.1	2035.63	2036.12	
G12	2028.13	2000.03	2014.66	2004.56	2013.54	2034.95	2009.19	2028.0	2028.13	
G13	2019.92	1988.58	2004.83	1995.05	2004.52	2021.62	2000.3	2020.14	2019.92	
G14	2006.63	1974.94	1997.16	1986.34	1994.69	2014.89	1993.34	2013.0	2006.63	
G15	2001.24	1964.97	1989.03	1981.04	1988.81	2005.82	1978.75	2007.93	2001.24	
G16	1986.7	1951.32	1974.76	1965.19	1976.6	1998.95	1971.66	1991.14	1986.7	
G17	1981.58	1936.78	1963.67	1951.5	1963.35	1984.54	1957.02	1980.73	1981.58	
G18	1968.07	1924.48	1953.16	1939.79	1951.77	1974.89	1945.8	1973.63	1968.07	
G19	1955.41	1911.46	1940.51	1927.4	1935.61	1960.35	1929.01	1958.87	1955.41	
G20	1940.51	1896.2	1928.74	1912.85	1921.7	1954.78	1915.86	1946.21	1940.51	
G21	1926.63	1878.42	1912.0	1895.71	1911.96	1937.32	1899.83	1933.91	1926.63	
G22	1911.96	1863.88	1898.44	1876.36	1890.41	1922.95	1886.91	1920.75	1911.96	
G23	1897.23	1845.7	1885.11	1861.54	1875.86	1908.09	1867.33	1905.49	1897.23	
G24	1878.74	1825.05	1866.93	1840.18	1856.65	1894.63	1851.44	1886.41	1878.74	
G25	1860.69	1806.06	1850.28	1824.11	1839.05	1875.28	1837.39	1872.41	1860.69	
G26	1838.96	1791.56	1830.48	1801.03	1818.22	1856.74	1818.22	1850.9	1838.96	
G27	1819.39	1762.43	1809.97	1783.88	1799.55	1837.08	1797.4	1837.8	1819.39	
G28	1802.96	1739.8	1789.99	1757.67	1776.07	1823.48	1782.04	1814.95	1802.96	
G29	1782.67	1713.77	1766.69	1735.81	1754.75	1799.01	1754.26	1798.88	1782.67	
G30	1756.77	1691.81	1745.64	1709.37	1730.46	1778.32	1732.08	1775.67	1756.77	
G31	1737.06	1664.48	1722.61	1684.9	1710.62	1766.96	1706.13	1755.2	1737.06	
G32	1711.25	1640.73	1701.29	1660.26	1685.93	1739.85	1681.13	1736.26	1711.25	
G33	1688.09	1611.73	1673.23	1635.34	1657.83	1711.75	1655.99	1708.56	1688.09	
G34	1657.74	1582.01	1649.75	1603.56	1628.92	1692.71	1632.96	1683.96	1657.74	
G35	1630.09	1550.59	1620.75	1576.09	1600.82	1666.45	1600.24	1655.41	1630.09	
G36	1603.02	1516.92	1590.09	1537.21	1566.89	1639.43	1569.94	1625.33	1603.02	

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Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1570.12	1473.92	1558.76	1496.9	1531.2	1610.88	1539.14	1599.21	1570.12	
G38	1533.8	1430.11	1523.7	1455.69	1489.14	1577.21	1497.98	1562.08	1533.8	
G39	1496.32	1385.62	1482.67	1410.71	1450.62	1542.02	1457.26	1526.53	1496.32	
G40	1452.96	1337.27	1446.18	1364.75	1403.49	1505.39	1412.28	1483.12	1452.96	
G41	1408.83	1288.03	1393.97	1311.33	1355.5	1464.04	1363.22	1444.25	1408.83	
G42	1363.8	1236.36	1346.48	1262.98	1304.73	1423.69	1313.71	1394.06	1363.8	
G43	1313.35	1186.17	1298.04	1212.12	1254.77	1374.26	1260.56	1345.8	1313.35	
G44	1259.21	1135.67	1248.08	1156.82	1203.5	1327.08	1206.96	1297.77	1259.21	
G45	1209.65	1076.91	1193.98	1105.28	1150.35	1274.47	1154.26	1246.78	1209.65	
G46	1155.24	1025.24	1143.35	1050.34	1095.05	1222.71	1102.01	1193.22	1155.24	
G47	1104.7	971.82	1087.37	999.57	1041.94	1168.31	1048.41	1139.94	1104.7	
G48	1045.71	920.07	1034.04	942.51	986.77	1115.7	995.53	1084.45	1045.71	
G49	994.04	863.95	979.28	892.14	934.07	1059.36	940.31	1030.9	994.04	
G50	938.25	814.62	926.71	839.22	882.4	1007.15	888.96	977.48	938.25	
G51	885.59	766.41	874.41	789.39	832.57	950.99	836.75	926.35	885.59	
G52	835.18	719.05	826.42	742.71	784.86	898.92	791.23	875.71	835.18	
G53	784.36	676.67	777.54	697.68	737.81	849.09	740.6	825.44	784.36	
G54	737.05	631.69	731.62	652.7	690.09	798.77	695.26	776.42	737.05	
G55	690.72	589.41	687.36	611.94	647.27	751.46	649.78	730.85	690.72	
G56	645.38	549.32	643.95	571.32	603.82	705.58	608.66	685.56	645.38	
G57	604.85	509.68	603.73	531.0	563.82	659.48	565.88	641.75	604.85	
G58	563.32	472.6	563.46	491.41	523.73	618.54	526.6	598.92	563.32	
G59	523.42	434.22	523.46	455.01	484.59	576.75	487.15	558.84	523.42	
G60	485.04	398.17	485.98	417.25	446.7	535.67	450.16	518.3	485.04	
G61	447.78	362.35	448.32	381.83	410.34	495.05	412.58	480.37	447.78	
G62	409.53	328.73	412.63	345.65	374.16	457.74	375.59	441.72	409.53	
G63	374.92	294.43	376.58	312.48	340.18	419.45	340.85	405.4	374.92	
G64	339.59	262.38	342.33	280.34	306.69	383.99	307.32	369.67	339.59	
G65	305.66	230.73	306.78	246.58	273.16	348.3	273.96	335.82	305.66	
G66	272.75	200.12	273.83	215.56	239.76	313.74	243.21	300.45	272.75	
G67	240.83	171.39	241.28	186.56	209.46	279.57	211.16	268.35	240.83	
G68	208.87	144.86	210.76	158.15	179.52	248.15	181.18	236.62	208.87	
G69	180.32	119.32	181.27	132.29	152.09	215.79	154.11	205.42	180.32	
G70	152.85	95.53	153.7	106.88	126.01	187.19	128.43	176.33	152.85	
G71	126.54	72.5	127.26	83.59	100.87	159.67	103.56	149.21	126.54	
G72	101.63	51.62	102.57	61.19	77.57	131.8	80.22	122.33	101.63	
G73	78.33	32.41	78.87	41.16	56.25	107.06	58.18	97.59	78.33	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/10 10:12:24

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 10:12:24

Remarks: