

Report No.:

Test Time: 2024/12/8 14:33:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL225CT200-42W
Lamp Type:
Luminous Width: 188 mm
Luminous Length: 188 mm
Luminous Height: 45 mm

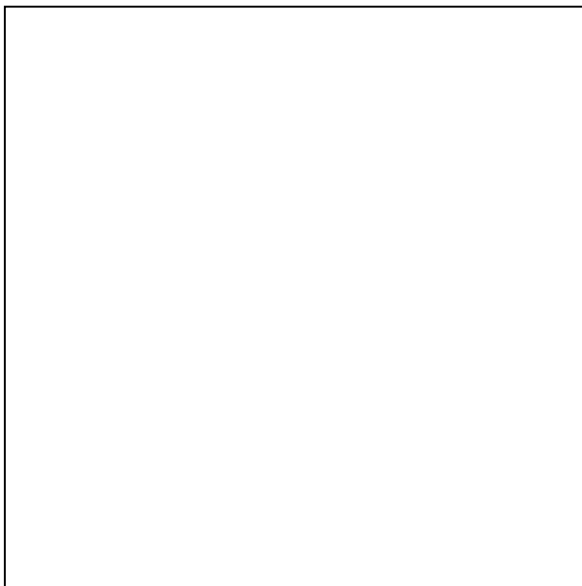
Voltage(V): 219.90 V
Current(A): 0.1930 A
Power(W): 40.89 W
Power Factor: 0.9580
Lamp Luminous Flux: 5399.82

Photometric Results

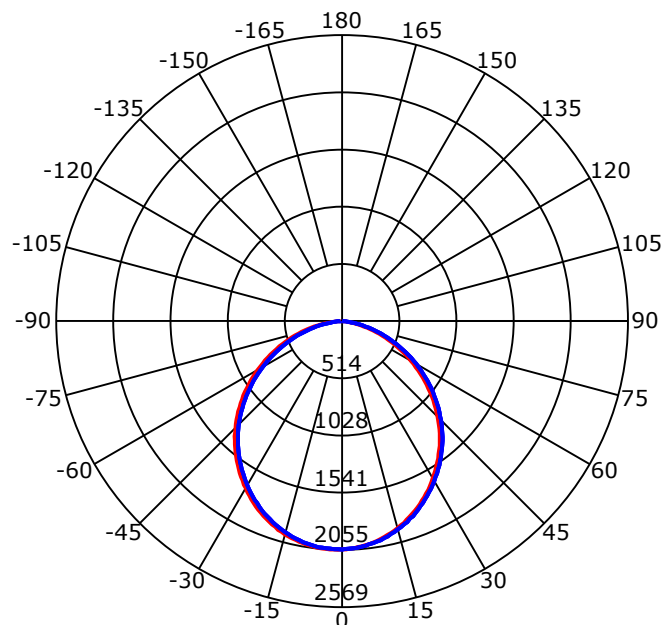
CIE Class: Direct
Luminaire Luminous Flux: 5399.815 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 132.06 lm/W
Beam Angle(50%) C0-180,C90-270: 106.2,106.2
Field Angle(10%) C0-180,C90-270: 156.5,156.5
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2055.20 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2050.43 cd
Effective Luminous Flux: 5302.99 lm
ERP(ϕ use)(120deg): 4388.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 106.2 deg,106.2 deg

C0-180 — C90-270 —

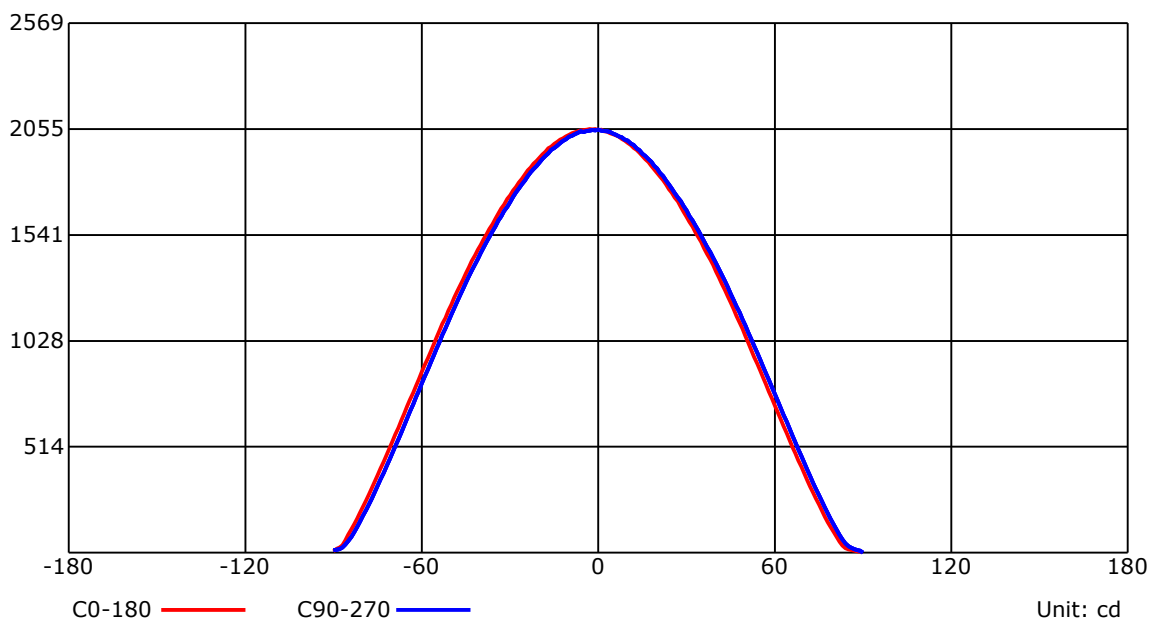
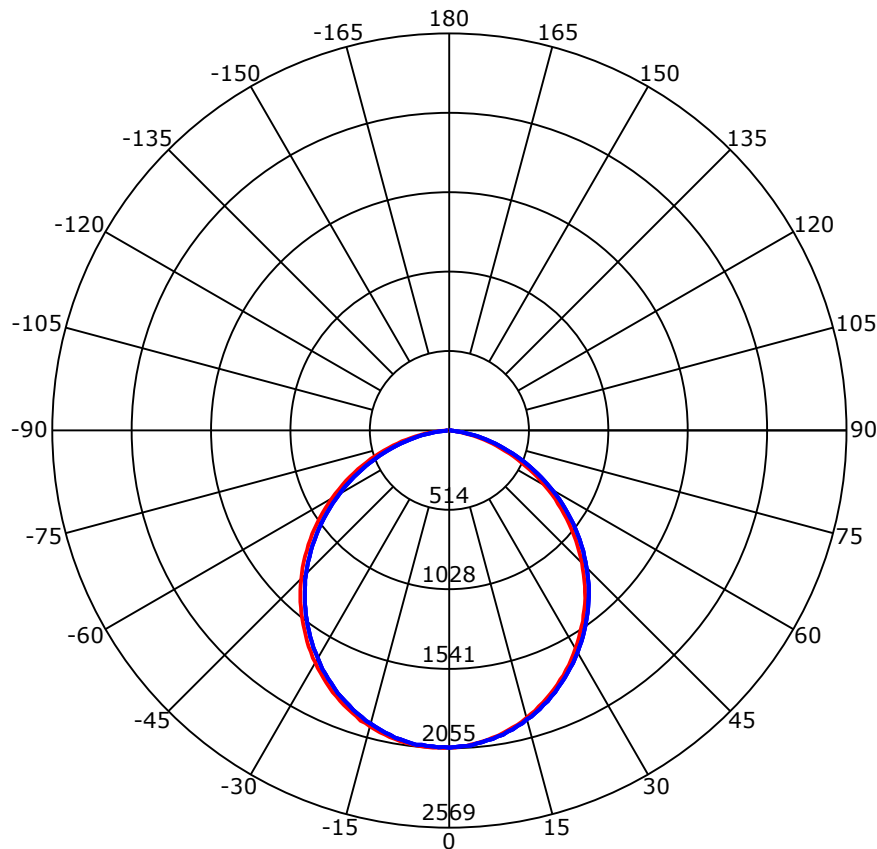
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/8 14:33:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



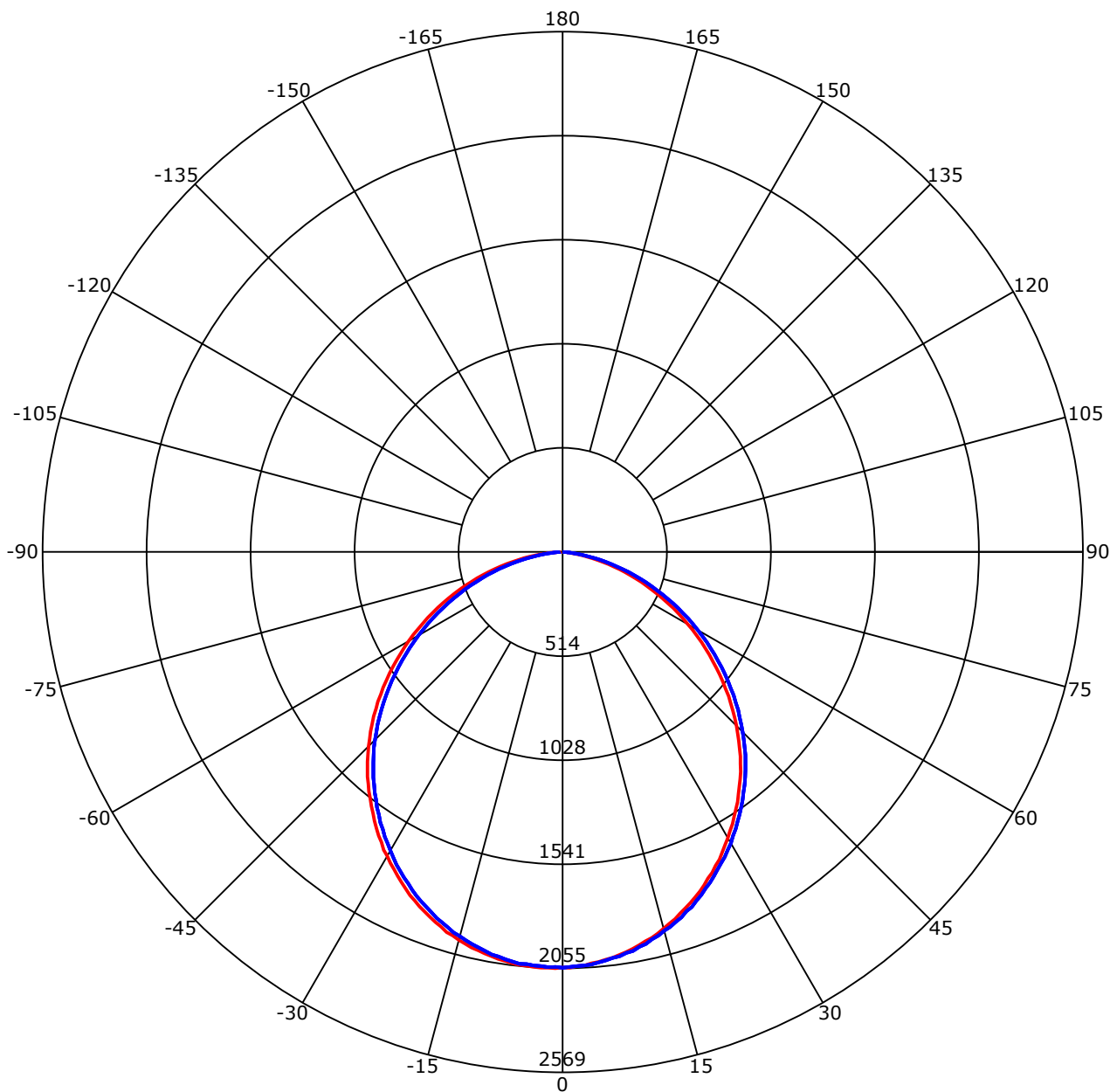
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/12/8 14:33:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

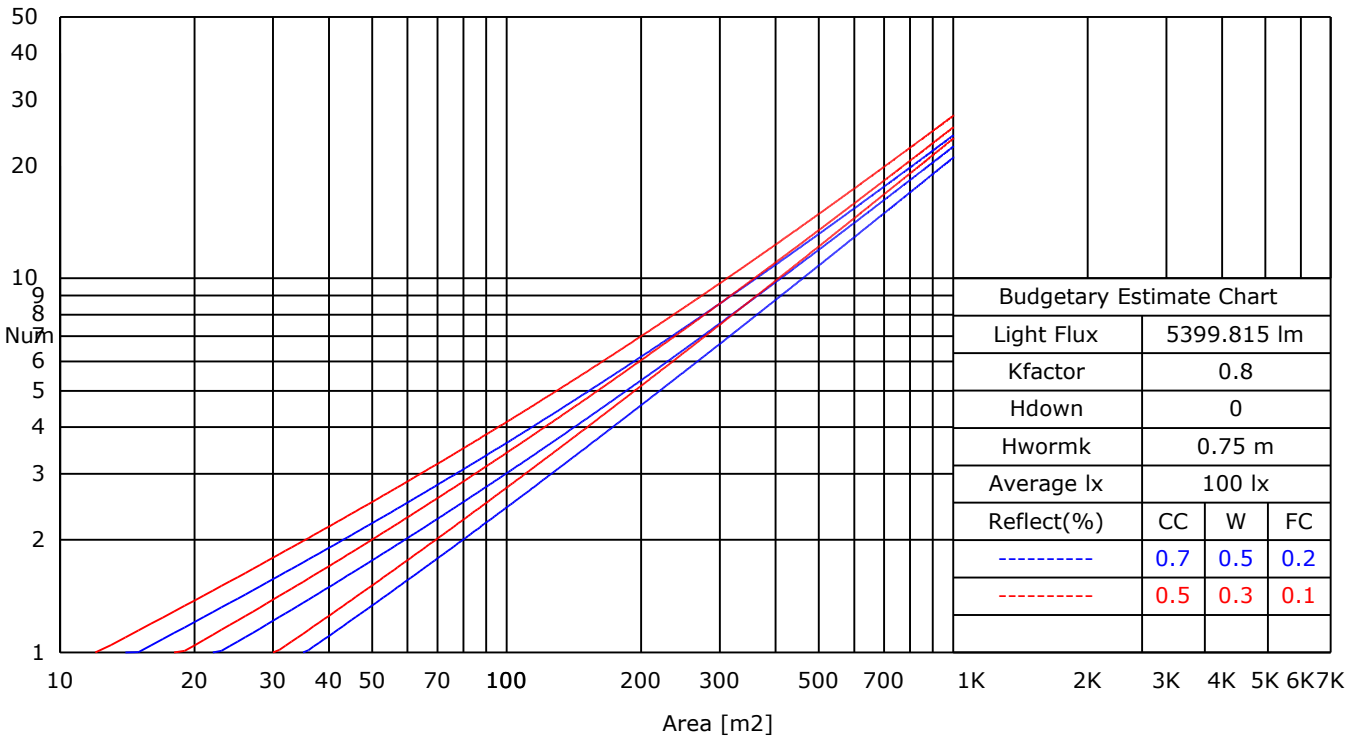
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.06	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.96	0.94	0.92	0.95	0.92	0.90	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.86	0.83	0.82	0.85	0.82	0.80	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.77	0.75	0.73	0.77	0.74	0.72	0.76	0.72	0.69	0.73	0.69	0.65	0.70	0.65	0.61	0.57
5	0.70	0.67	0.66	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.55	0.52
6	0.64	0.61	0.60	0.64	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.61	0.55	0.50	0.47
7	0.58	0.56	0.55	0.59	0.56	0.54	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.46	0.43
8	0.54	0.52	0.50	0.54	0.51	0.49	0.54	0.50	0.47	0.54	0.49	0.45	0.53	0.47	0.43	0.39
9	0.50	0.48	0.47	0.50	0.48	0.46	0.51	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.36
10	0.47	0.45	0.43	0.47	0.44	0.43	0.47	0.43	0.41	0.47	0.42	0.39	0.47	0.41	0.37	0.34

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



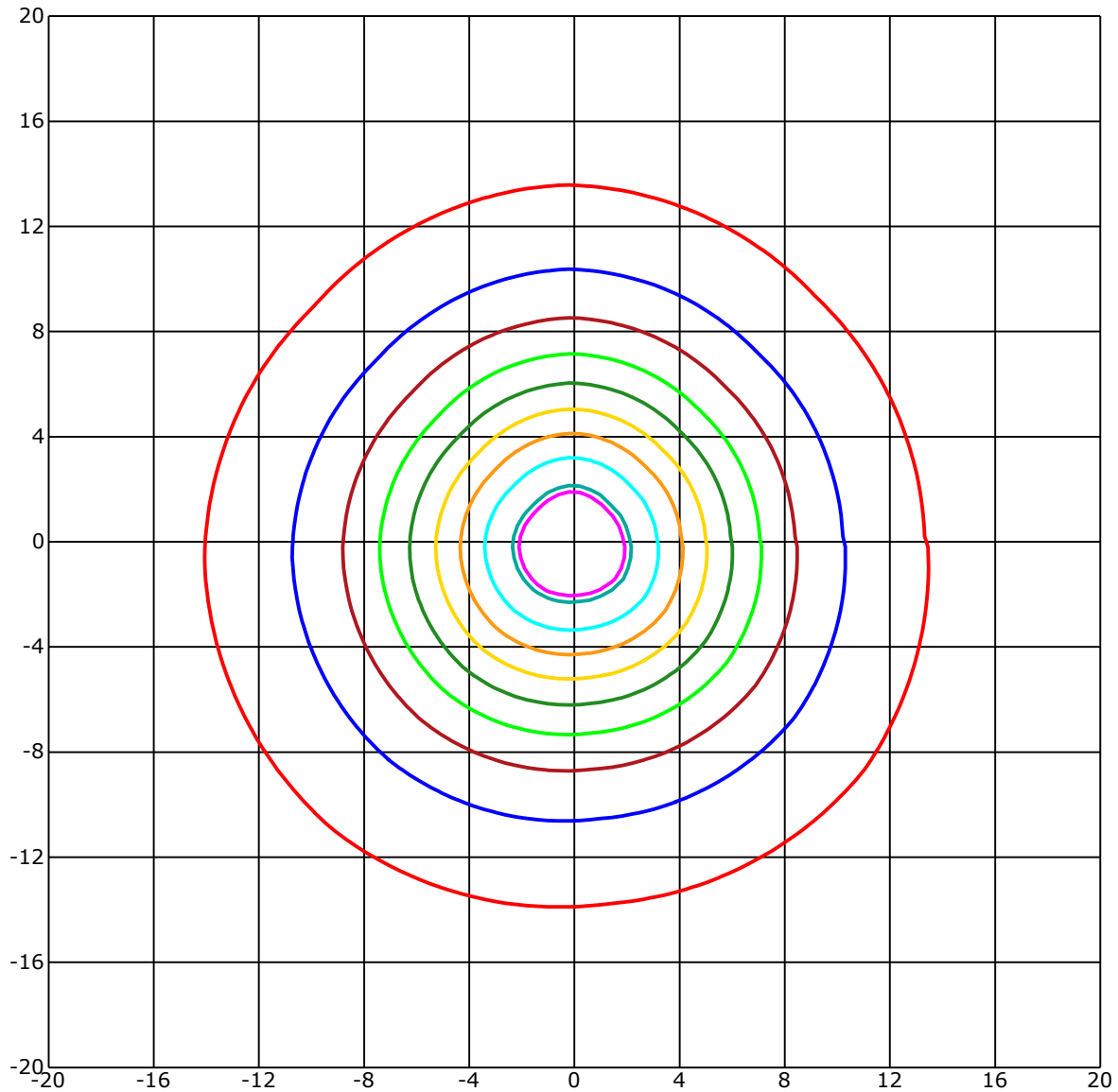
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/8 14:33:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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ISOLX DIAGRAM



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

18.896(92%Emax)	10.27(50%Emax)
18.485(90%Emax)	8.216(40%Emax)
16.432(80%Emax)	6.162(30%Emax)
14.378(70%Emax)	4.108(20%Emax)
12.324(60%Emax)	2.054(10%Emax)

C Range: 0 - 360 Deg
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Test Speed: High
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Test Date: 2024/12/8 14:33:40

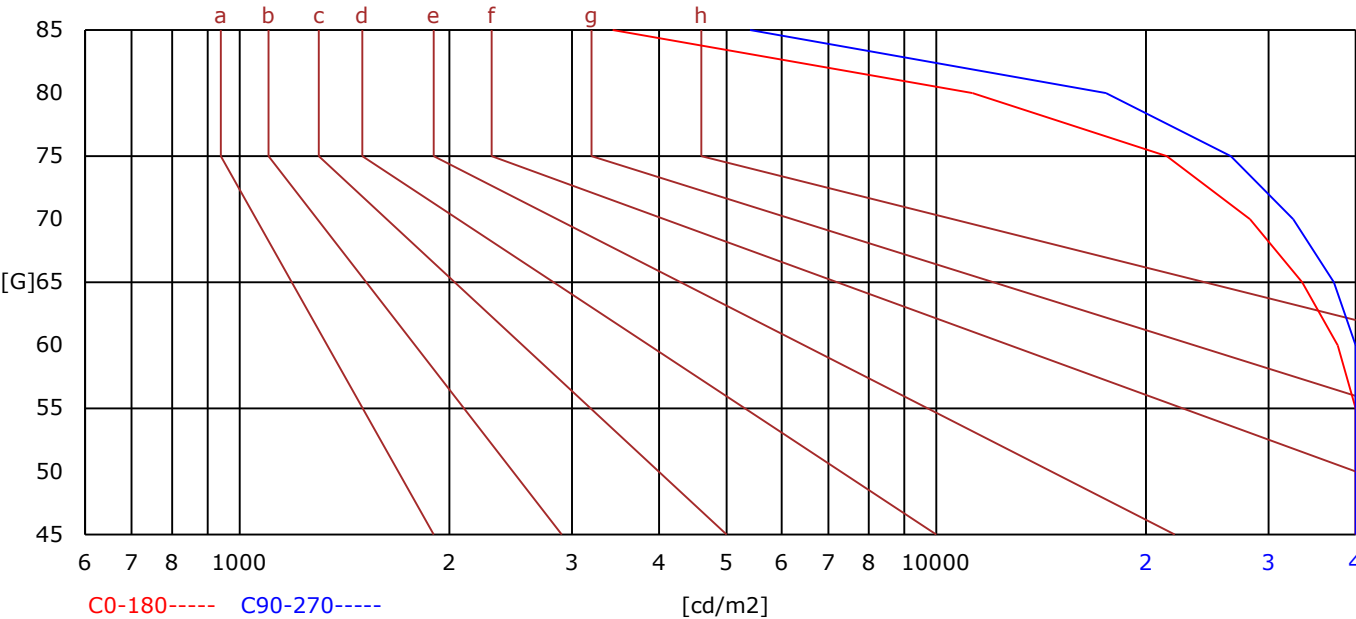
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

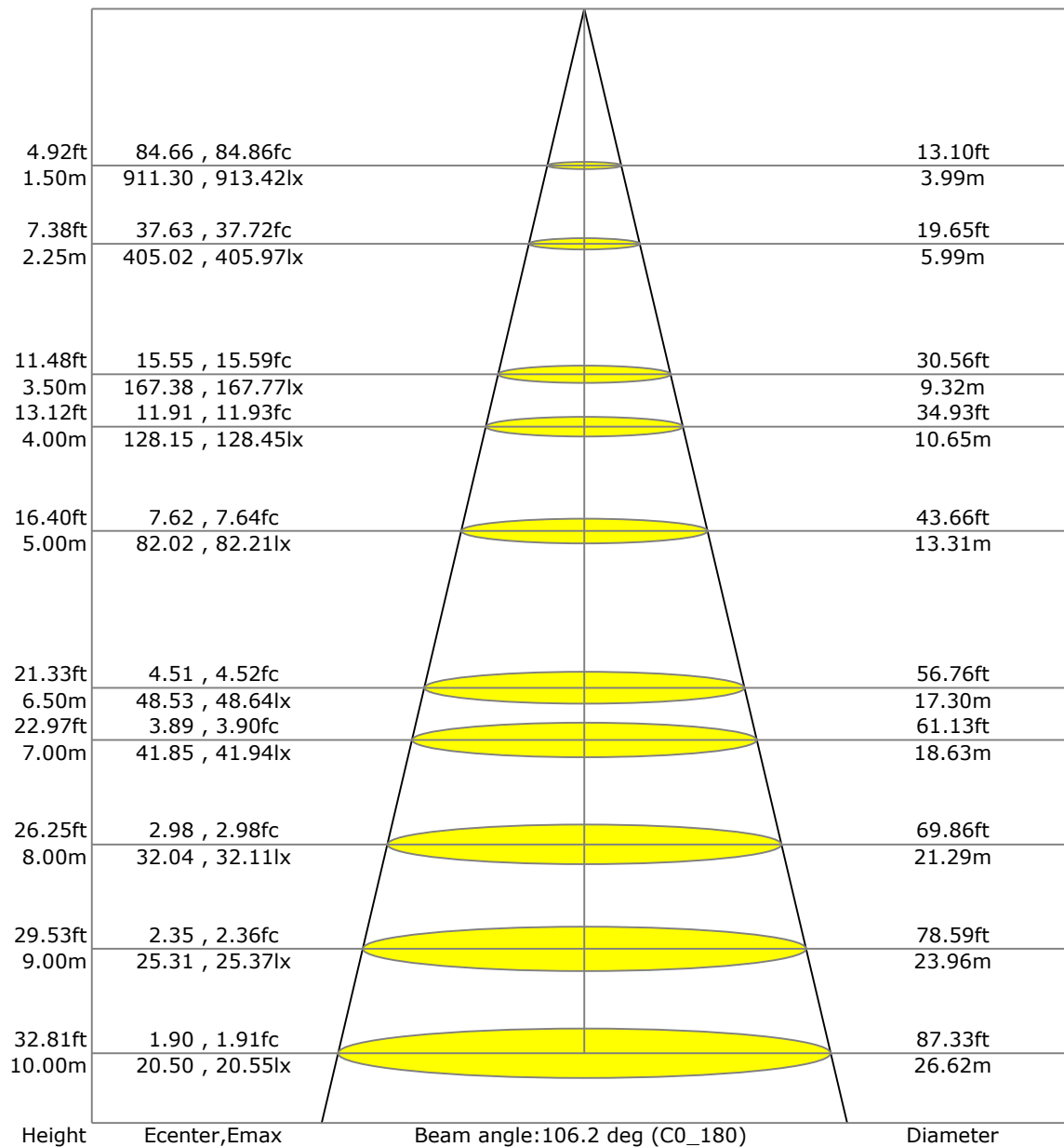
C/G	45	50	55	60	65	70	75	80	85
C0	46458	44076	41155	37682	33504	28217	21414	11274	3433
C90	48751	46526	44000	40928	37229	32518	26464	17515	5405
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/12/8 14:33:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

Report No.:

Test Time: 2024/12/8 14:33:40

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	16.39	16.46	16.59	16.65	16.89	16.50	16.57	16.70	16.76	17.00
3H	16.49	16.56	16.70	16.76	17.00	16.58	16.66	16.79	16.85	17.10
4H	16.49	16.56	16.70	16.75	17.00	16.58	16.65	16.79	16.84	17.09
6H	16.46	16.53	16.68	16.73	16.98	16.55	16.62	16.77	16.82	17.07
8H	16.45	16.51	16.67	16.72	16.97	16.53	16.60	16.75	16.81	17.06
12H	16.43	16.50	16.65	16.70	16.96	16.52	16.58	16.74	16.79	17.05
4H 2H	18.01	18.09	18.23	18.28	18.53	18.28	18.35	18.49	18.55	18.80
3H	18.20	18.26	18.42	18.47	18.73	18.45	18.52	18.67	18.72	18.98
4H	18.21	18.28	18.44	18.49	18.75	18.46	18.52	18.69	18.73	18.99
6H	18.19	18.25	18.43	18.47	18.74	18.43	18.49	18.67	18.71	18.98
8H	18.17	18.23	18.42	18.46	18.72	18.41	18.47	18.66	18.70	18.96
12H	18.15	18.21	18.40	18.44	18.71	18.39	18.45	18.64	18.68	18.95
8H 4H	18.16	18.23	18.38	18.43	18.69	18.51	18.58	18.73	18.78	19.04
6H	18.38	18.43	18.63	18.67	18.94	18.71	18.76	18.97	19.00	19.27
8H	18.36	18.40	18.62	18.65	18.93	18.69	18.74	18.95	18.98	19.26
12H	18.34	18.38	18.60	18.63	18.91	18.67	18.71	18.94	18.96	19.24
12H 4H	18.39	18.44	18.63	18.67	18.94	18.74	18.79	18.99	19.02	19.29
6H	18.36	18.41	18.63	18.66	18.93	18.72	18.76	18.98	19.01	19.28

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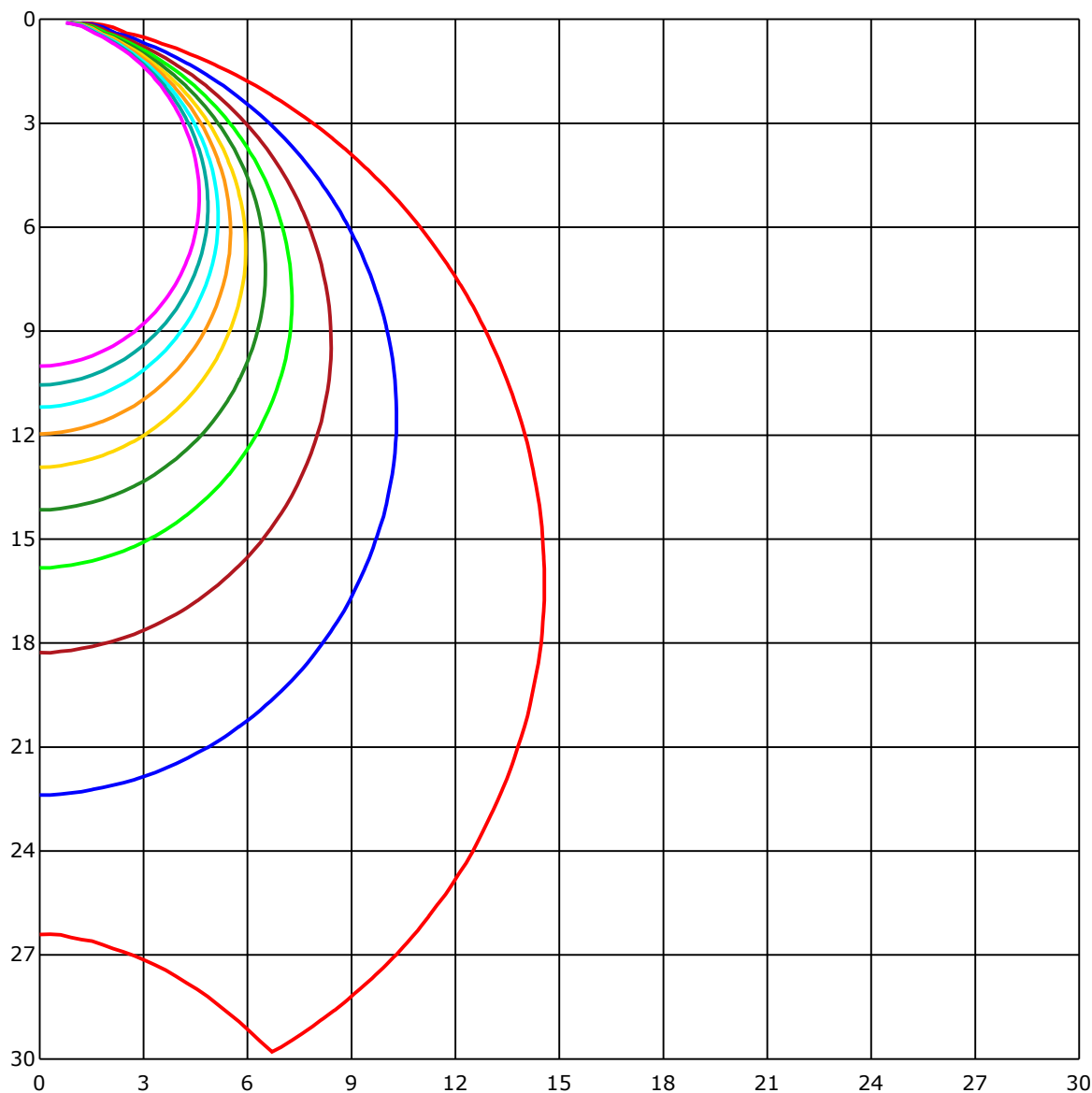
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



20.469

18.422

16.375

14.328

12.281

10.234

8.188

6.141

4.094

2.047

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/12/8 14:33:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2050.43	2040.13	2052.33	2047.04	2050.43	2040.13	2052.33	2047.04	2050.43	
G1	2052.37	2036.24	2047.97	2046.16	2054.88	2047.51	2048.43	2049.87	2052.37	
G2	2044.72	2035.86	2045.7	2044.44	2054.0	2045.23	2051.17	2048.94	2044.72	
G3	2043.47	2027.42	2043.93	2038.88	2055.2	2046.39	2046.81	2052.88	2043.47	
G4	2035.45	2022.55	2041.24	2032.57	2052.61	2048.2	2046.11	2047.23	2035.45	
G5	2030.86	2012.12	2033.41	2031.0	2050.52	2049.13	2041.57	2046.48	2030.86	
G6	2023.95	2008.13	2027.8	2021.35	2049.08	2047.69	2044.82	2043.38	2023.95	
G7	2017.78	1994.68	2019.59	2015.09	2045.14	2042.36	2037.26	2037.95	2017.78	
G8	2007.85	1987.63	2014.95	2003.82	2039.06	2043.42	2030.07	2033.18	2007.85	
G9	1999.92	1974.18	2003.73	1996.07	2034.94	2036.42	2022.18	2028.91	1999.92	
G10	1988.19	1965.47	2000.02	1986.06	2027.01	2031.55	2017.55	2022.51	1988.19	
G11	1977.2	1950.49	1985.64	1976.74	2019.63	2024.09	2006.37	2017.92	1977.2	
G12	1963.89	1941.58	1977.57	1965.05	2010.17	2024.46	1997.23	2005.35	1963.89	
G13	1954.1	1924.98	1961.8	1949.7	2004.1	2009.89	1987.31	1997.74	1954.1	
G14	1940.65	1911.67	1952.25	1937.78	1992.92	2004.47	1975.16	1986.47	1940.65	
G15	1925.12	1893.81	1936.34	1923.87	1983.65	1993.71	1963.66	1978.54	1925.12	
G16	1908.66	1879.16	1925.21	1911.86	1969.45	1985.18	1953.96	1964.4	1908.66	
G17	1895.44	1860.93	1909.17	1894.93	1962.68	1972.89	1937.73	1956.14	1895.44	
G18	1876.1	1843.22	1896.5	1875.59	1944.32	1961.11	1924.89	1941.44	1876.1	
G19	1860.28	1826.2	1876.28	1861.12	1931.89	1946.73	1911.53	1928.5	1860.28	
G20	1842.66	1809.87	1864.74	1842.06	1917.33	1938.8	1893.49	1913.62	1842.66	
G21	1825.64	1786.69	1843.17	1823.79	1901.93	1922.2	1877.4	1898.31	1825.64	
G22	1806.44	1766.79	1826.25	1806.16	1887.18	1906.15	1861.77	1878.37	1806.44	
G23	1786.59	1747.68	1804.59	1788.12	1869.1	1888.95	1845.49	1864.13	1786.59	
G24	1763.59	1727.65	1786.69	1765.17	1854.67	1874.01	1827.08	1843.54	1763.59	
G25	1746.43	1704.32	1766.47	1746.71	1835.1	1855.97	1805.51	1826.89	1746.43	
G26	1722.18	1681.88	1744.67	1723.85	1815.21	1839.88	1788.4	1808.34	1722.18	
G27	1703.58	1658.09	1723.34	1702.1	1795.73	1820.36	1766.93	1790.44	1703.58	
G28	1678.12	1635.87	1705.34	1677.19	1774.63	1803.98	1748.33	1767.58	1678.12	
G29	1653.35	1610.5	1680.72	1653.86	1756.63	1784.32	1725.42	1749.4	1653.35	
G30	1629.38	1586.67	1660.08	1632.07	1733.08	1762.52	1701.91	1726.77	1629.38	
G31	1605.12	1561.53	1633.27	1606.47	1716.19	1740.22	1678.12	1704.37	1605.12	
G32	1581.56	1537.14	1611.8	1580.59	1689.16	1722.13	1657.44	1681.64	1581.56	
G33	1554.02	1509.31	1586.34	1557.82	1669.77	1696.72	1631.51	1658.73	1554.02	
G34	1529.58	1484.31	1562.18	1532.41	1644.87	1677.98	1610.78	1635.55	1529.58	
G35	1506.57	1458.95	1536.07	1505.51	1619.92	1651.22	1582.72	1612.68	1506.57	
G36	1475.83	1431.82	1510.47	1479.21	1594.64	1630.72	1559.77	1587.83	1475.83	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1449.02	1402.04	1483.62	1452.22	1571.18	1604.34	1532.08	1561.81	1449.02	
G38	1423.47	1374.91	1458.44	1424.91	1544.74	1580.17	1507.04	1536.81	1423.47	
G39	1396.15	1345.46	1430.47	1397.36	1520.3	1554.62	1480.6	1512.74	1396.15	
G40	1364.9	1318.01	1404.08	1367.96	1493.26	1530.41	1454.49	1484.45	1364.9	
G41	1336.65	1285.92	1376.21	1338.14	1469.15	1505.41	1424.77	1458.76	1336.65	
G42	1305.53	1258.51	1347.88	1309.85	1441.18	1476.71	1398.56	1431.21	1305.53	
G43	1274.28	1224.65	1317.55	1278.4	1414.75	1451.8	1368.88	1403.06	1274.28	
G44	1242.69	1194.32	1287.31	1246.82	1383.82	1425.14	1341.57	1372.96	1242.69	
G45	1214.17	1161.07	1255.87	1218.39	1355.62	1397.13	1311.66	1346.86	1214.17	
G46	1181.76	1130.42	1225.91	1186.44	1325.94	1366.94	1279.56	1316.39	1181.76	
G47	1148.88	1098.65	1194.56	1154.95	1298.11	1336.51	1250.49	1286.24	1148.88	
G48	1115.72	1066.23	1164.97	1121.28	1265.98	1309.11	1217.23	1254.29	1115.72	
G49	1085.48	1034.0	1131.62	1089.38	1236.85	1276.97	1185.65	1223.36	1085.48	
G50	1050.65	1001.35	1101.29	1057.0	1202.63	1247.8	1154.81	1192.56	1050.65	
G51	1017.49	967.41	1066.7	1025.38	1174.52	1216.4	1121.7	1161.54	1017.49	
G52	983.96	935.78	1036.88	991.8	1139.69	1186.63	1089.7	1130.28	983.96	
G53	949.88	900.48	1003.76	957.34	1110.62	1152.77	1056.22	1097.72	949.88	
G54	916.3	867.42	969.54	924.41	1076.71	1120.54	1021.39	1063.54	916.3	
G55	884.07	834.31	936.94	892.0	1043.65	1086.96	989.85	1032.56	884.07	
G56	849.33	802.96	903.41	857.08	1009.52	1055.47	955.95	996.85	849.33	
G57	817.43	766.13	869.64	823.92	976.4	1022.55	923.12	965.36	817.43	
G58	781.95	733.07	839.13	789.46	943.85	988.97	889.45	931.51	781.95	
G59	747.95	699.44	802.21	758.48	910.73	955.77	854.8	898.17	747.95	
G60	713.82	665.91	769.84	723.28	877.34	923.86	821.41	863.52	713.82	
G61	681.26	631.97	736.08	689.47	842.98	888.98	786.35	831.62	681.26	
G62	647.6	599.64	702.64	656.31	809.08	854.48	754.54	797.25	647.6	
G63	614.11	565.88	667.58	622.65	776.06	822.02	720.04	765.07	614.11	
G64	579.61	533.37	635.63	588.88	742.48	787.51	685.62	730.47	579.61	
G65	545.29	500.44	600.99	556.1	709.46	753.94	650.52	696.38	545.29	
G66	512.18	467.66	567.92	521.96	674.49	719.66	617.73	662.2	512.18	
G67	481.29	435.19	534.48	489.04	641.15	685.44	583.09	627.75	481.29	
G68	447.81	403.98	501.37	455.6	606.78	652.05	550.21	594.17	447.81	
G69	416.18	371.61	467.61	423.83	573.44	617.82	516.35	561.34	416.18	
G70	383.48	341.1	435.56	393.08	540.05	583.92	483.66	527.67	383.48	
G71	351.86	310.35	402.87	361.41	506.94	550.21	450.22	494.14	351.86	
G72	321.02	280.81	371.94	329.87	474.01	516.86	419.1	461.21	321.02	
G73	291.8	251.59	339.52	300.38	441.83	483.29	387.1	428.65	291.8	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/12/8 14:33:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: