

Report No.:

Test Time: 2024/12/8 14:15:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL225CT170-35W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 40 mm

Voltage(V): 219.90 V
Current(A): 0.1630 A
Power(W): 34.86 W
Power Factor: 0.9670
Lamp Luminous Flux: 4384.54

Photometric Results

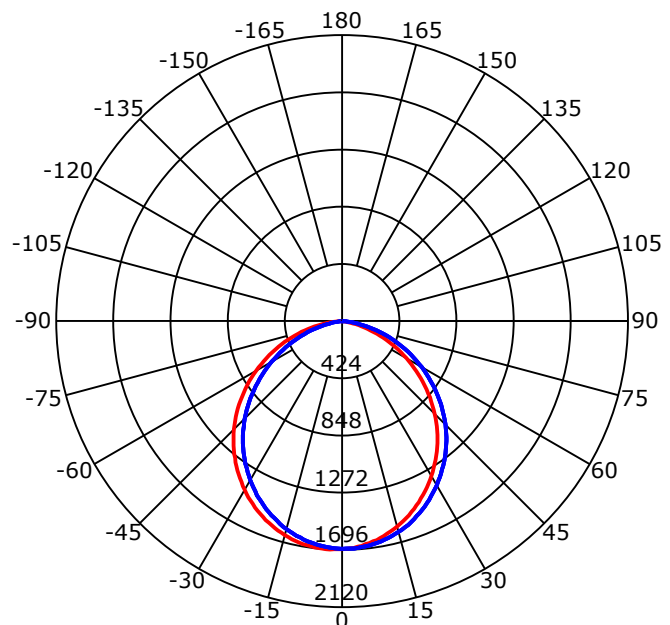
CIE Class: Direct
Luminaire Luminous Flux: 4384.536 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 125.78 lm/W
Beam Angle(50%) C0-180,C90-270: 105.5,105.5
Field Angle(10%) C0-180,C90-270: 154.7,154.7
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1696.30 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1690.41 cd
Effective Luminous Flux: 4307.00 lm
ERP(ϕ use)(120deg): 3601.92 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 105.5 deg,105.5 deg

C0-180 — C90-270 —

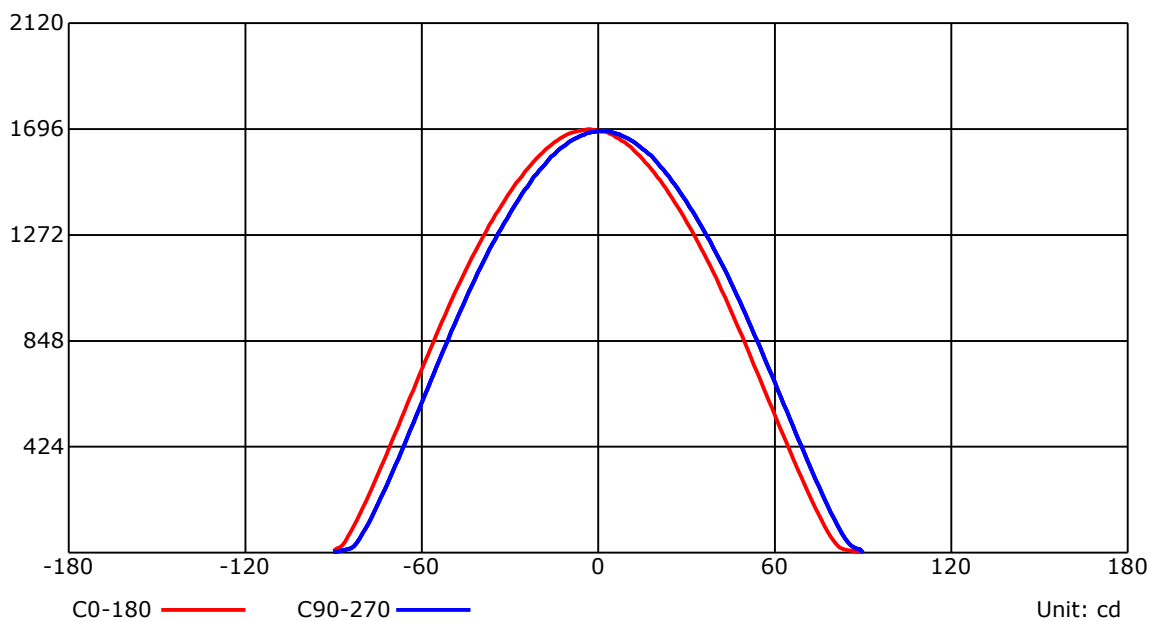
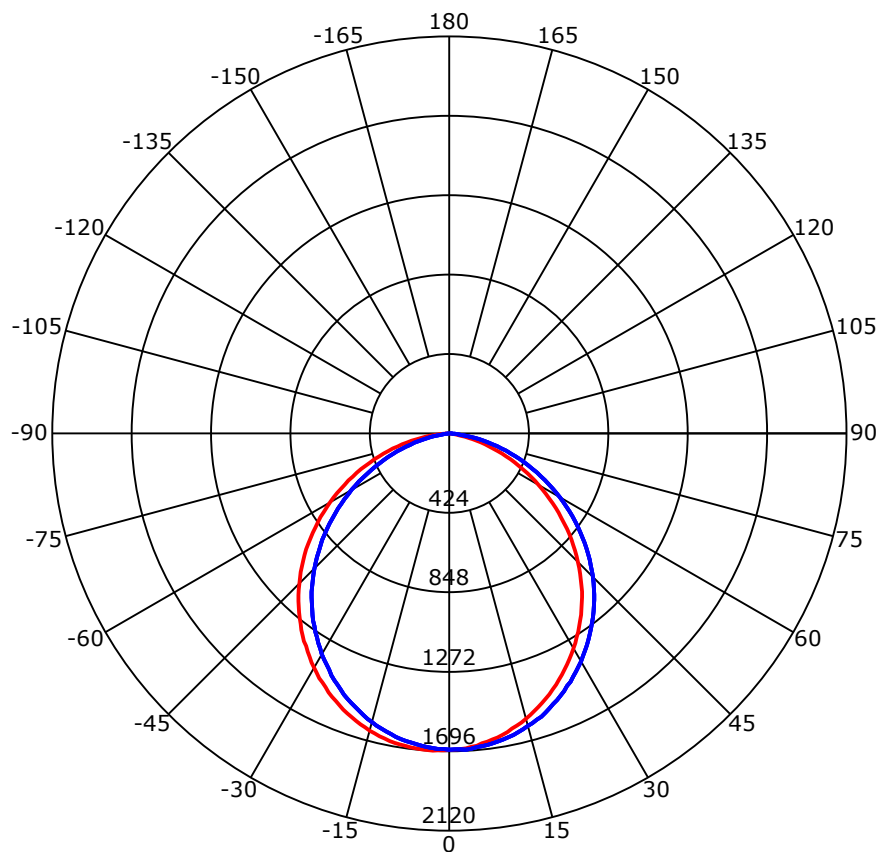
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/8 14:15:27

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 Intensity Distribution Curve



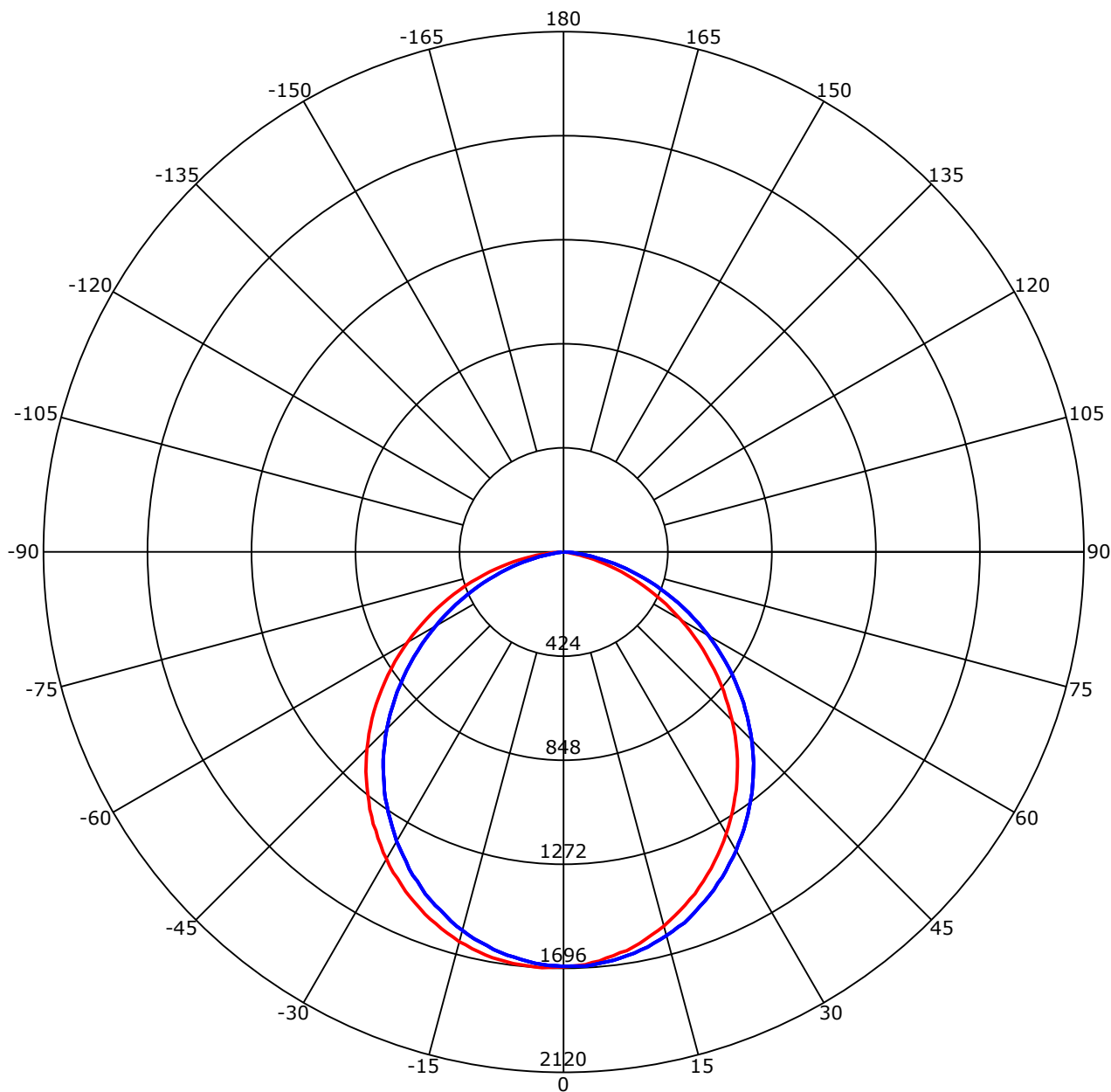
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Temperature: 25
Operators: QC01
Test Date: 2024/12/8 14:15:27

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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 14:15:27

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

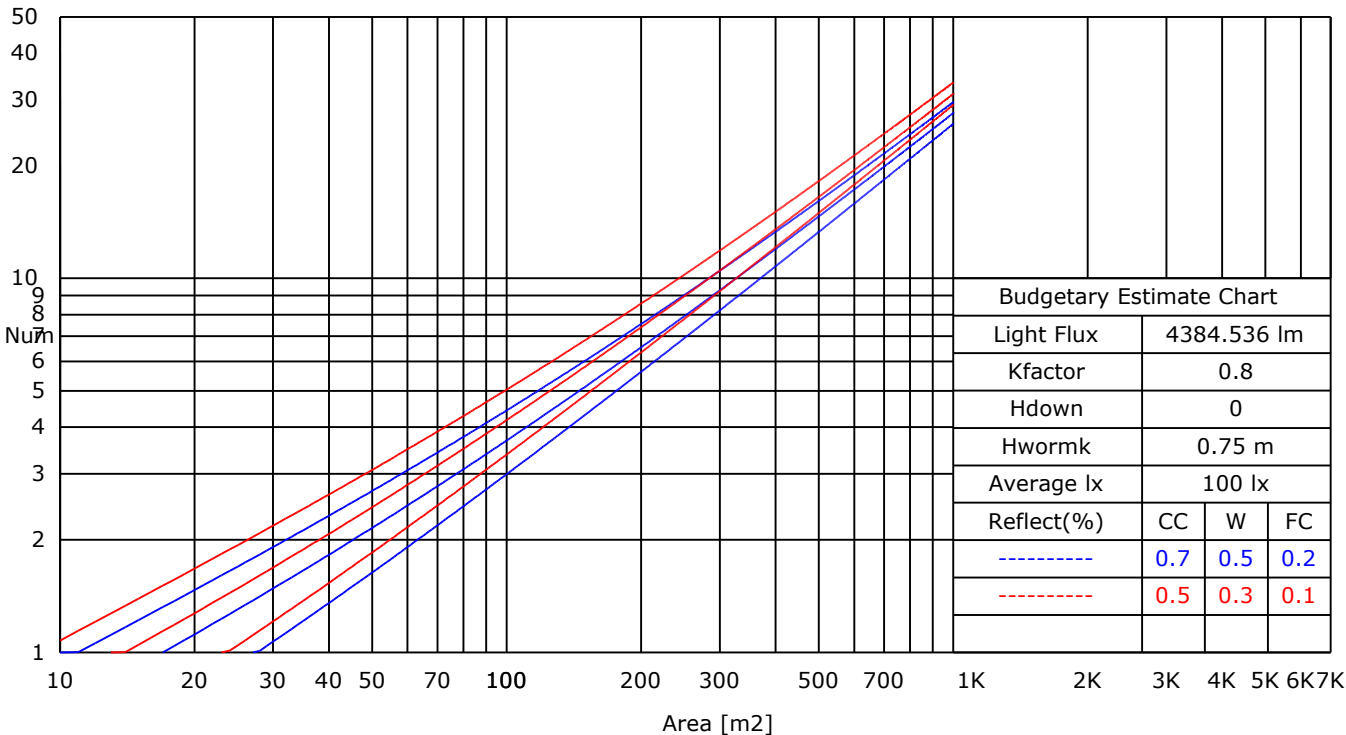
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UTILIZATION FACTORS TABLE

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	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.93	0.90	0.88	0.87	0.81
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.84	0.82	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.70	0.68	0.67	0.70	0.67	0.65	0.69	0.65	0.62	0.68	0.63	0.59	0.66	0.60	0.56	0.52
6	0.64	0.62	0.60	0.64	0.61	0.59	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.55	0.51	0.47
7	0.59	0.57	0.55	0.59	0.56	0.54	0.59	0.55	0.52	0.58	0.53	0.49	0.57	0.51	0.47	0.43
8	0.54	0.52	0.51	0.55	0.52	0.50	0.55	0.51	0.48	0.54	0.49	0.45	0.53	0.48	0.43	0.40
9	0.51	0.48	0.47	0.51	0.48	0.46	0.51	0.47	0.44	0.51	0.46	0.42	0.50	0.44	0.40	0.37
10	0.47	0.45	0.44	0.48	0.45	0.43	0.48	0.44	0.41	0.48	0.43	0.39	0.47	0.42	0.37	0.34

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



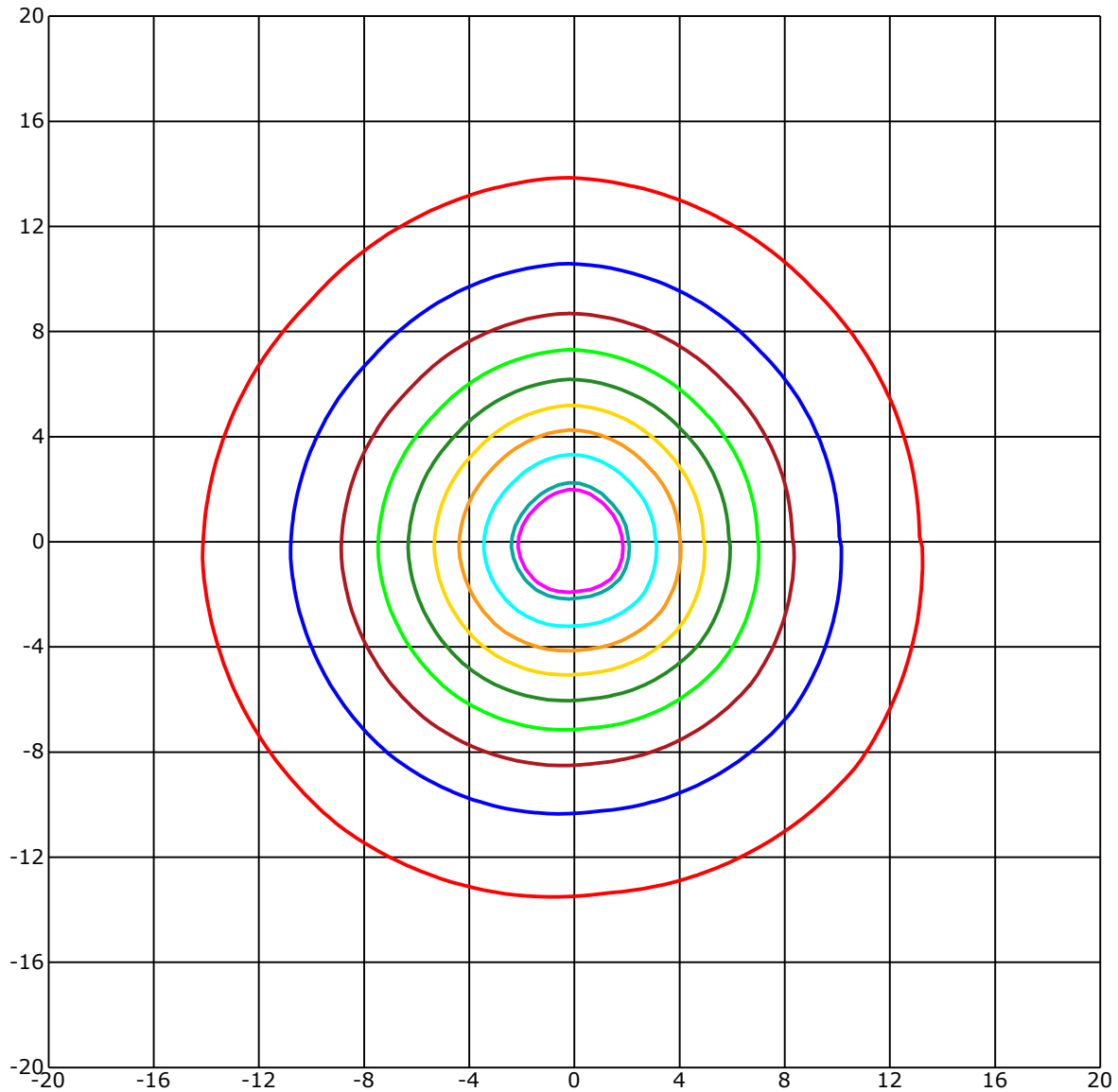
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/8 14:15:27

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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ISOLX DIAGRAM



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

15.572(92%Emax)	8.463(50%Emax)
15.233(90%Emax)	6.77(40%Emax)
13.541(80%Emax)	5.078(30%Emax)
11.848(70%Emax)	3.385(20%Emax)
10.156(60%Emax)	1.693(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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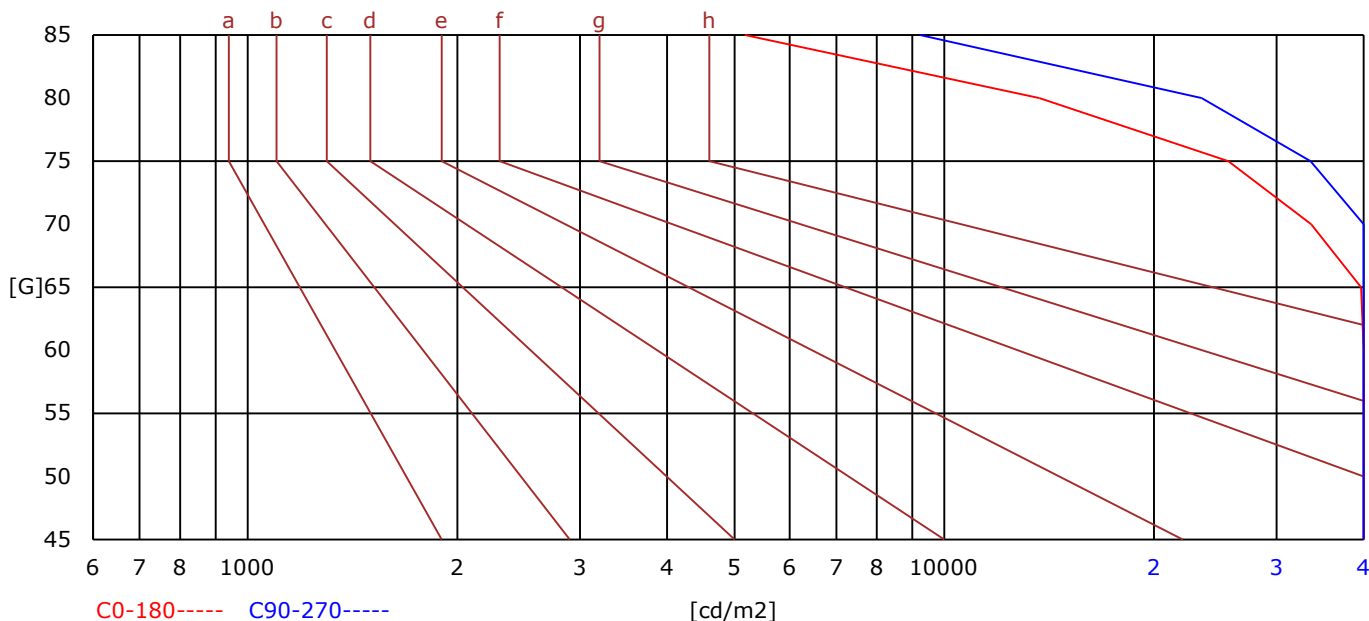
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	54195	51513	48194	44496	39650	33623	25562	13687	5176
C90	57695	55422	52761	49496	45394	40233	33534	23410	9229
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



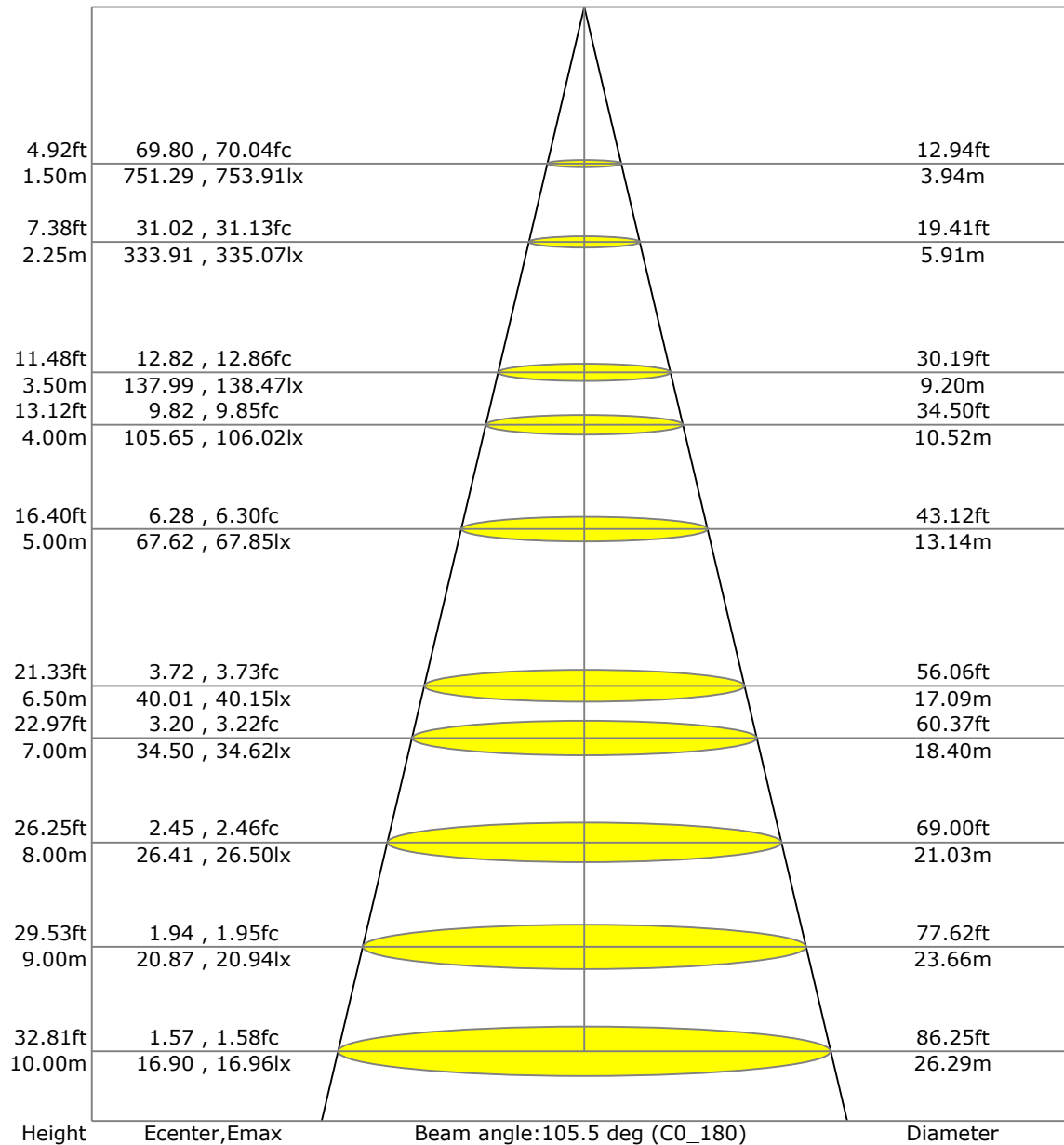
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/8 14:15:27

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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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 14:15:27

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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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	17.57	17.65	17.77	17.84	18.08	17.88	17.96	18.08	18.14	18.39
3H	17.69	17.76	17.90	17.96	18.20	17.95	18.03	18.16	18.22	18.47
4H	17.69	17.76	17.91	17.96	18.21	17.94	18.01	18.15	18.21	18.46
6H	17.67	17.74	17.89	17.94	18.19	17.92	17.98	18.13	18.19	18.44
8H	17.66	17.72	17.87	17.93	18.18	17.90	17.97	18.12	18.17	18.43
12H	17.64	17.70	17.86	17.91	18.17	17.88	17.95	18.11	18.16	18.41
4H 2H	19.03	19.11	19.25	19.30	19.55	19.79	19.87	20.01	20.06	20.31
3H	19.24	19.31	19.47	19.52	19.77	19.96	20.02	20.18	20.23	20.48
4H	19.27	19.33	19.50	19.54	19.80	19.96	20.02	20.19	20.23	20.49
6H	19.25	19.31	19.49	19.53	19.80	19.93	19.99	20.17	20.21	20.47
8H	19.24	19.29	19.48	19.52	19.78	19.91	19.97	20.15	20.19	20.46
12H	19.22	19.27	19.46	19.50	19.77	19.89	19.94	20.14	20.18	20.44
8H 4H	19.11	19.17	19.33	19.38	19.63	20.09	20.16	20.31	20.36	20.61
6H	19.35	19.40	19.61	19.64	19.91	20.29	20.34	20.54	20.58	20.85
8H	19.33	19.38	19.60	19.62	19.90	20.27	20.31	20.53	20.56	20.84
12H	19.31	19.35	19.58	19.61	19.89	20.24	20.29	20.51	20.54	20.82
12H 4H	19.35	19.40	19.60	19.63	19.90	20.34	20.39	20.59	20.62	20.89
6H	19.34	19.38	19.60	19.63	19.90	20.32	20.36	20.58	20.61	20.88

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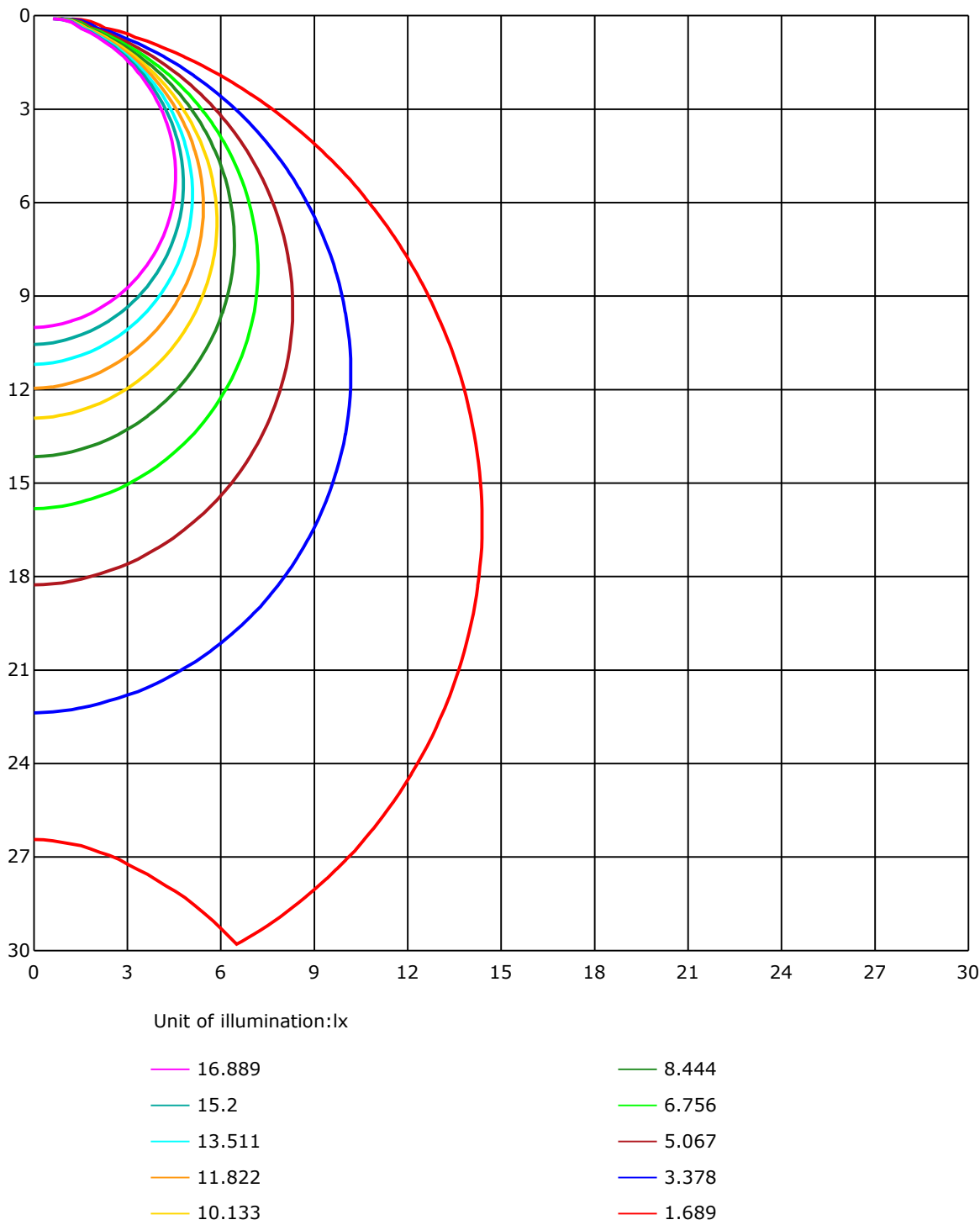
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1690.41	1687.39	1688.32	1691.57	1690.41	1687.39	1688.32	1691.57	1690.41	
G1	1689.06	1682.71	1687.53	1693.38	1692.26	1685.31	1685.96	1691.52	1689.06	
G2	1685.73	1679.65	1688.42	1689.48	1693.52	1690.97	1685.31	1691.94	1685.73	
G3	1684.19	1675.85	1689.81	1687.44	1696.3	1686.19	1682.66	1692.77	1684.19	
G4	1676.73	1672.55	1686.75	1683.5	1694.77	1686.84	1679.23	1685.68	1676.73	
G5	1673.53	1667.31	1681.83	1681.04	1692.45	1685.45	1673.85	1682.57	1673.53	
G6	1663.56	1664.81	1678.68	1675.38	1690.55	1685.68	1668.94	1678.72	1663.56	
G7	1657.81	1653.31	1675.75	1670.33	1689.2	1679.19	1663.33	1676.5	1657.81	
G8	1649.0	1644.73	1669.82	1664.62	1684.71	1676.73	1658.32	1668.89	1649.0	
G9	1644.27	1637.96	1664.35	1661.75	1681.88	1673.62	1651.41	1663.05	1644.27	
G10	1634.06	1631.6	1659.38	1651.08	1678.21	1667.41	1644.87	1657.67	1634.06	
G11	1624.28	1620.1	1651.36	1644.59	1672.6	1662.86	1634.16	1650.15	1624.28	
G12	1611.57	1610.09	1645.01	1637.26	1665.23	1657.3	1626.22	1641.99	1611.57	
G13	1600.49	1601.6	1635.73	1629.19	1659.52	1649.09	1617.69	1632.25	1600.49	
G14	1589.96	1587.92	1627.01	1615.79	1649.74	1645.98	1607.35	1623.12	1589.96	
G15	1577.72	1576.18	1617.51	1606.51	1643.66	1631.74	1595.29	1615.56	1577.72	
G16	1563.57	1562.5	1608.6	1594.23	1632.44	1622.38	1585.78	1605.96	1563.57	
G17	1549.84	1552.49	1597.89	1584.53	1623.95	1611.38	1572.15	1593.44	1549.84	
G18	1535.51	1536.3	1589.77	1569.51	1613.89	1606.38	1556.85	1579.11	1535.51	
G19	1521.83	1520.81	1575.4	1557.54	1601.69	1590.28	1543.4	1568.39	1521.83	
G20	1505.55	1506.85	1562.69	1542.75	1591.4	1578.41	1531.66	1554.99	1505.55	
G21	1492.01	1491.41	1547.15	1529.76	1580.17	1564.87	1517.01	1540.29	1492.01	
G22	1473.51	1475.41	1534.35	1513.86	1565.01	1553.04	1503.79	1525.03	1473.51	
G23	1457.65	1459.13	1519.84	1499.8	1551.61	1539.18	1484.82	1514.09	1457.65	
G24	1439.14	1442.11	1506.02	1483.9	1538.76	1524.89	1467.34	1495.17	1439.14	
G25	1422.26	1424.44	1488.4	1467.43	1525.36	1510.24	1453.66	1479.35	1422.26	
G26	1402.78	1408.35	1474.53	1449.44	1508.2	1495.17	1437.15	1462.19	1402.78	
G27	1383.86	1387.11	1456.86	1434.27	1492.52	1480.28	1415.12	1450.37	1383.86	
G28	1365.31	1371.2	1438.87	1415.4	1479.63	1462.84	1397.59	1429.68	1365.31	
G29	1346.34	1350.52	1422.49	1396.71	1461.96	1445.96	1379.64	1410.58	1346.34	
G30	1324.92	1331.23	1405.66	1377.42	1444.76	1429.45	1361.0	1391.01	1324.92	
G31	1305.3	1309.8	1385.07	1356.92	1428.15	1409.05	1339.34	1373.61	1305.3	
G32	1283.46	1288.1	1367.08	1337.07	1406.91	1392.35	1319.26	1355.85	1283.46	
G33	1262.08	1266.21	1347.74	1320.79	1389.24	1371.67	1297.88	1332.25	1262.08	
G34	1240.42	1245.8	1326.77	1297.56	1369.02	1356.36	1279.61	1314.11	1240.42	
G35	1217.37	1223.36	1307.62	1277.71	1353.49	1332.76	1256.47	1295.28	1217.37	
G36	1196.6	1201.23	1287.17	1256.42	1331.78	1313.23	1237.31	1270.29	1196.6	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1173.04	1178.65	1266.44	1232.86	1312.82	1291.81	1214.31	1249.84	1173.04	
G38	1148.74	1157.55	1245.94	1210.83	1289.02	1272.98	1190.01	1228.41	1148.74	
G39	1124.71	1134.55	1222.66	1189.55	1268.94	1251.23	1167.1	1207.54	1124.71	
G40	1102.27	1109.87	1200.82	1165.94	1247.66	1230.5	1144.38	1184.21	1102.27	
G41	1075.32	1087.2	1178.7	1143.03	1226.09	1206.52	1121.47	1160.89	1075.32	
G42	1049.54	1061.04	1156.81	1118.82	1203.97	1184.72	1095.08	1137.65	1049.54	
G43	1025.14	1033.86	1132.37	1094.11	1180.69	1161.49	1068.46	1113.82	1025.14	
G44	998.25	1008.63	1108.9	1068.27	1157.22	1138.35	1045.36	1086.36	998.25	
G45	971.02	981.04	1083.3	1044.39	1133.15	1113.63	1018.65	1061.36	971.02	
G46	943.66	957.06	1059.79	1017.35	1108.67	1089.1	991.71	1037.57	943.66	
G47	917.27	928.59	1033.03	992.31	1084.88	1063.91	967.27	1010.07	917.27	
G48	889.08	902.39	1008.17	965.18	1059.09	1038.83	937.68	984.29	889.08	
G49	864.03	874.89	981.36	938.84	1034.28	1012.39	910.46	958.45	864.03	
G50	835.23	847.66	957.02	911.99	1009.7	988.83	886.11	932.76	835.23	
G51	807.36	820.53	928.31	885.18	983.45	961.61	856.06	905.08	807.36	
G52	778.47	793.45	902.25	859.12	955.58	933.23	829.34	877.81	778.47	
G53	749.11	765.07	874.89	829.76	928.45	906.75	800.92	849.42	749.11	
G54	721.1	736.27	848.27	801.61	901.41	879.34	772.16	822.11	721.1	
G55	693.32	707.65	821.88	774.71	874.05	851.6	744.57	794.1	693.32	
G56	664.2	679.92	792.15	745.45	846.18	823.55	715.95	765.76	664.2	
G57	635.82	651.86	764.74	717.72	819.56	795.16	688.13	737.57	635.82	
G58	607.43	623.99	737.19	688.64	791.08	768.13	659.28	709.51	607.43	
G59	580.17	596.67	708.86	661.18	762.75	739.98	630.02	682.66	580.17	
G60	550.3	569.54	682.01	633.54	734.88	712.89	601.96	653.49	550.3	
G61	522.33	539.68	652.05	604.7	708.58	682.93	573.53	623.94	522.33	
G62	494.23	512.69	624.92	576.18	677.88	655.94	546.31	595.79	494.23	
G63	468.35	484.26	595.79	547.79	649.36	627.19	517.23	568.71	468.35	
G64	438.3	456.25	568.11	519.6	621.58	598.72	488.62	538.94	438.3	
G65	410.66	428.98	539.26	491.12	594.4	570.01	459.45	510.74	410.66	
G66	382.05	400.36	512.13	462.83	564.49	541.63	431.53	482.54	382.05	
G67	355.06	373.0	482.78	434.13	537.13	512.6	403.98	454.07	355.06	
G68	327.97	345.59	454.72	406.58	507.12	483.47	376.53	425.22	327.97	
G69	301.35	319.3	426.8	379.36	479.02	455.6	349.17	397.03	301.35	
G70	274.5	294.4	399.02	352.27	451.01	428.42	322.41	369.25	274.5	
G71	248.58	267.73	371.06	325.37	423.18	399.48	294.67	341.98	248.58	
G72	223.39	241.94	344.34	298.57	394.34	371.19	268.89	313.5	223.39	
G73	199.37	217.36	316.66	272.69	366.83	343.79	243.47	286.74	199.37	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/12/8 14:15:27

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: