

Report No.:

Test Time: 2024/8/26 9:29:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-36.4W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

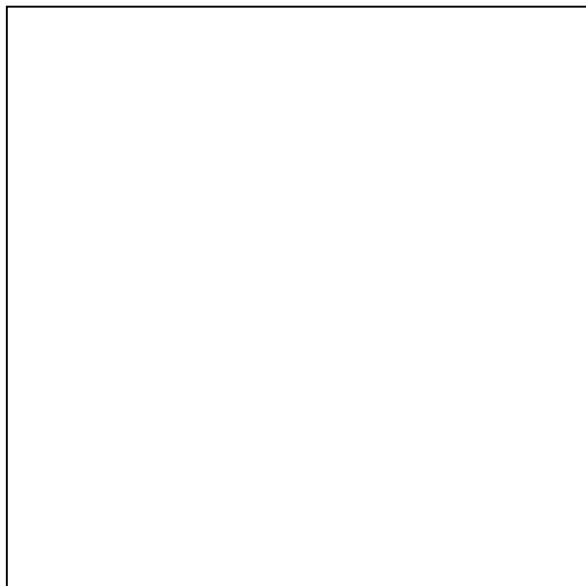
Voltage(V): 219.70 V
Current(A): 0.1690 A
Power(W): 36.41 W
Power Factor: 0.9780
Lamp Luminous Flux: 2766.82

Photometric Results

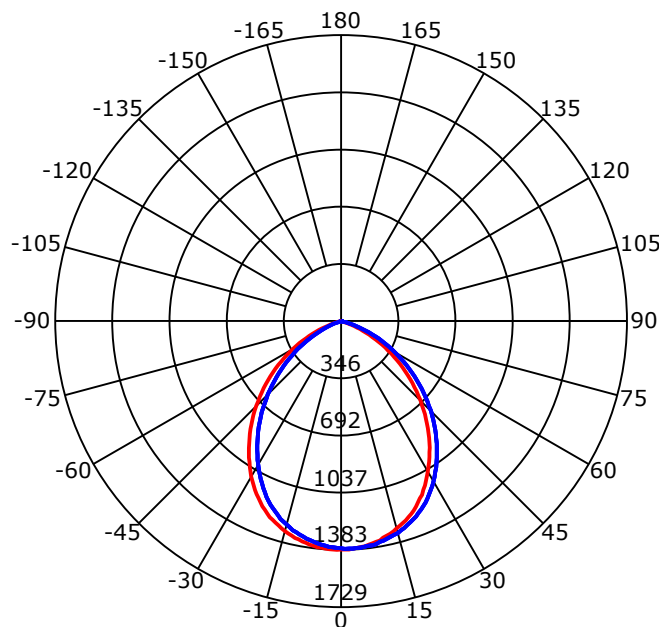
CIE Class: Direct
Luminaire Luminous Flux: 2766.816 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 75.99 lm/W
Beam Angle(50%) C0-180,C90-270: 90.7,90.4
Field Angle(10%) C0-180,C90-270: 134.6,134.5
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1383.32 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1382.20 cd
Effective Luminous Flux: 2709.80 lm
ERP(ϕ use)(120deg): 2549.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.7 deg,90.4 deg

C0-180 — C90-270 —

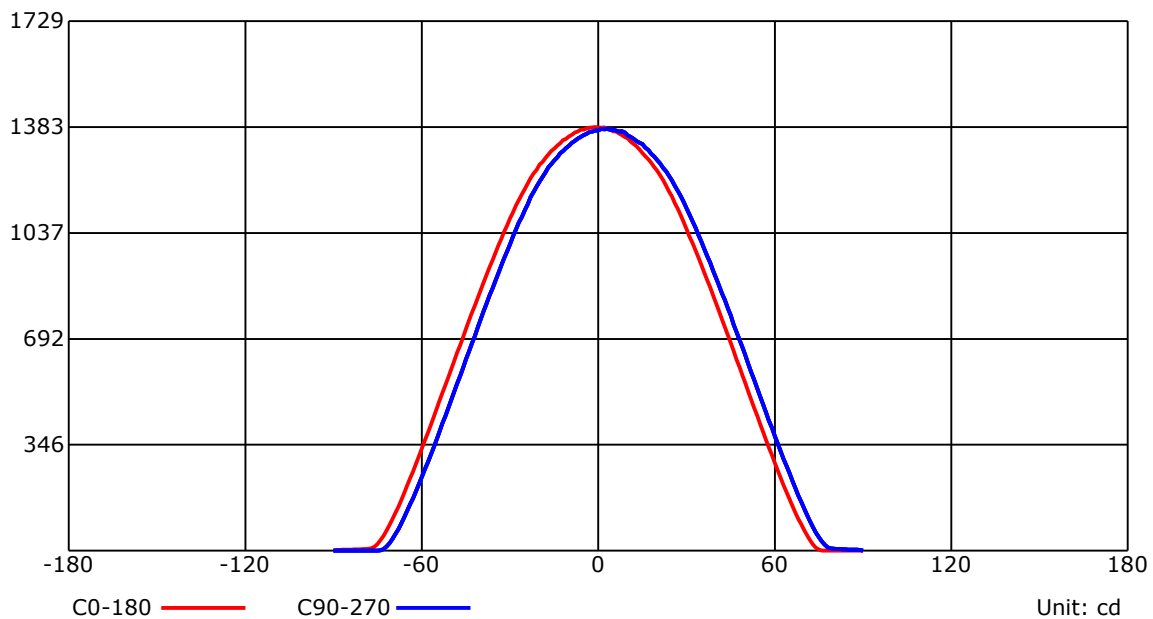
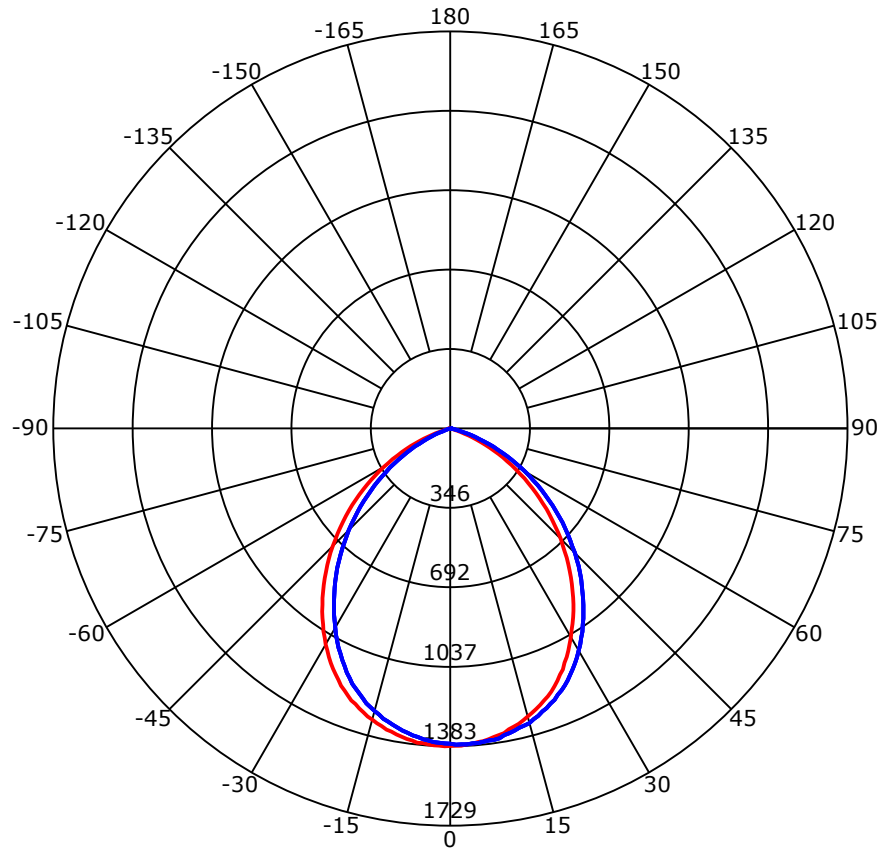
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/26 9:29:10

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



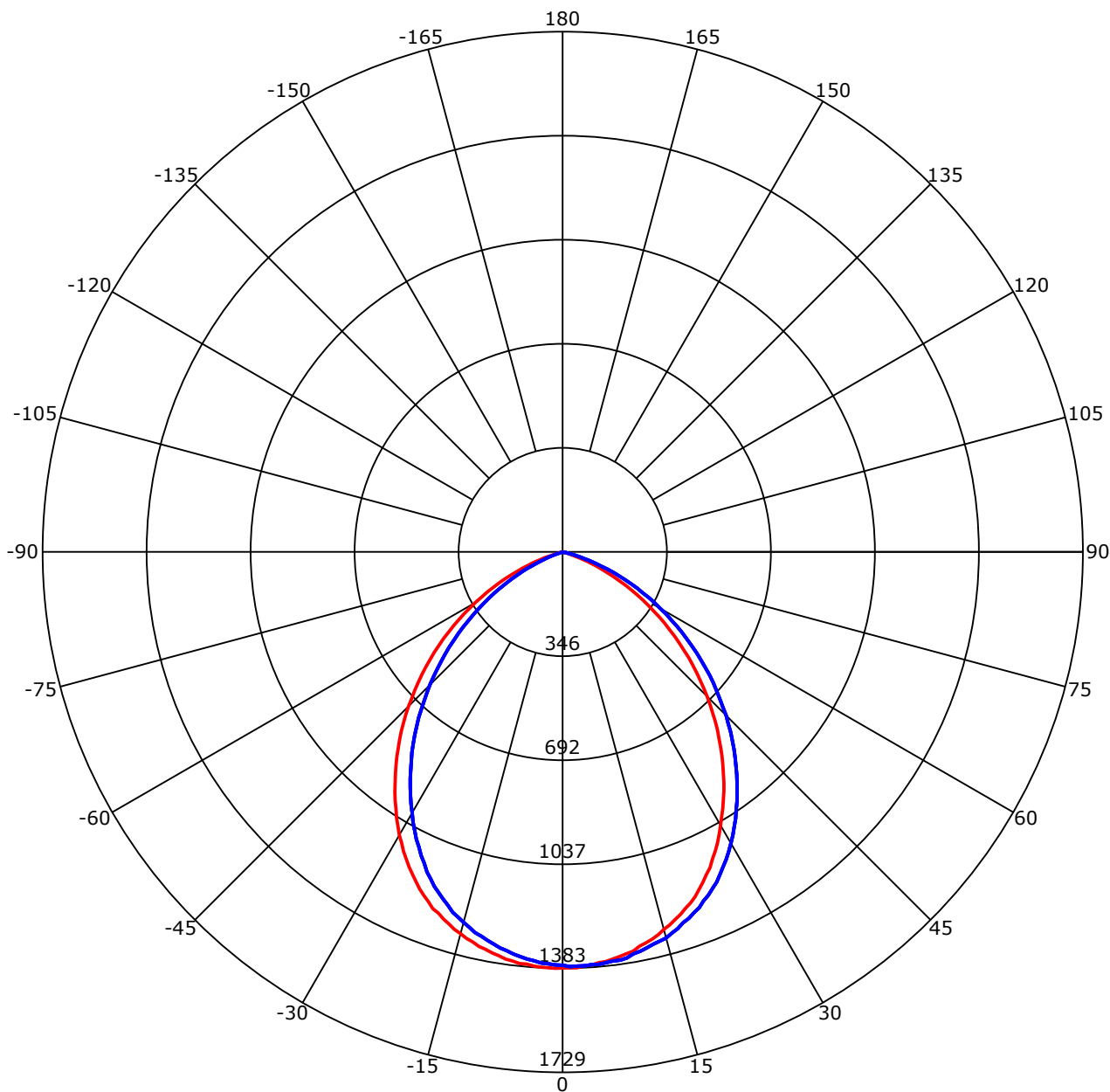
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

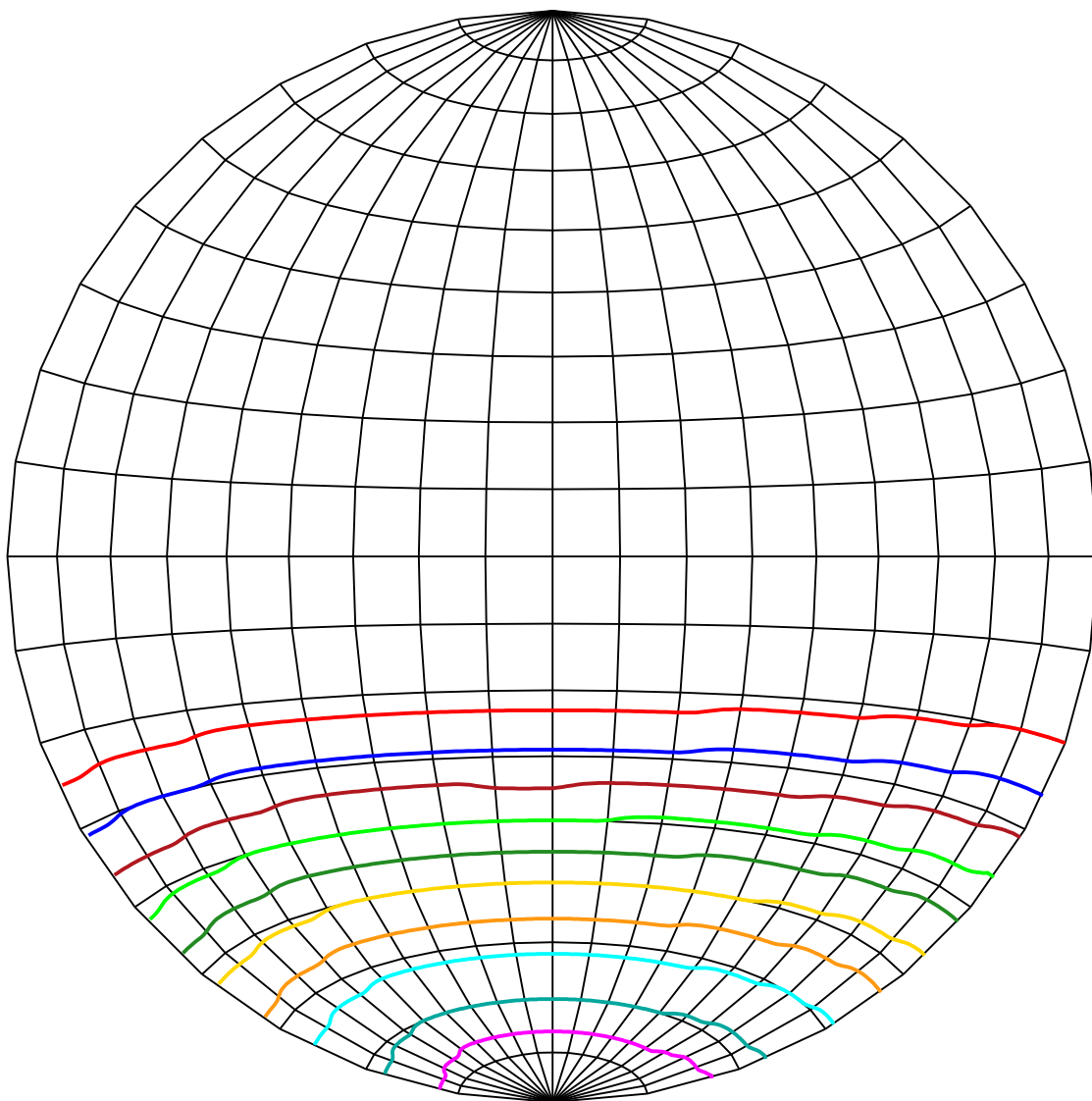
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1383.321 cd

1314.155(95%Imax)	691.66(50%Imax)
1244.989(90%Imax)	553.328(40%Imax)
1106.656(80%Imax)	414.996(30%Imax)
968.324(70%Imax)	276.664(20%Imax)
829.992(60%Imax)	138.332(10%Imax)

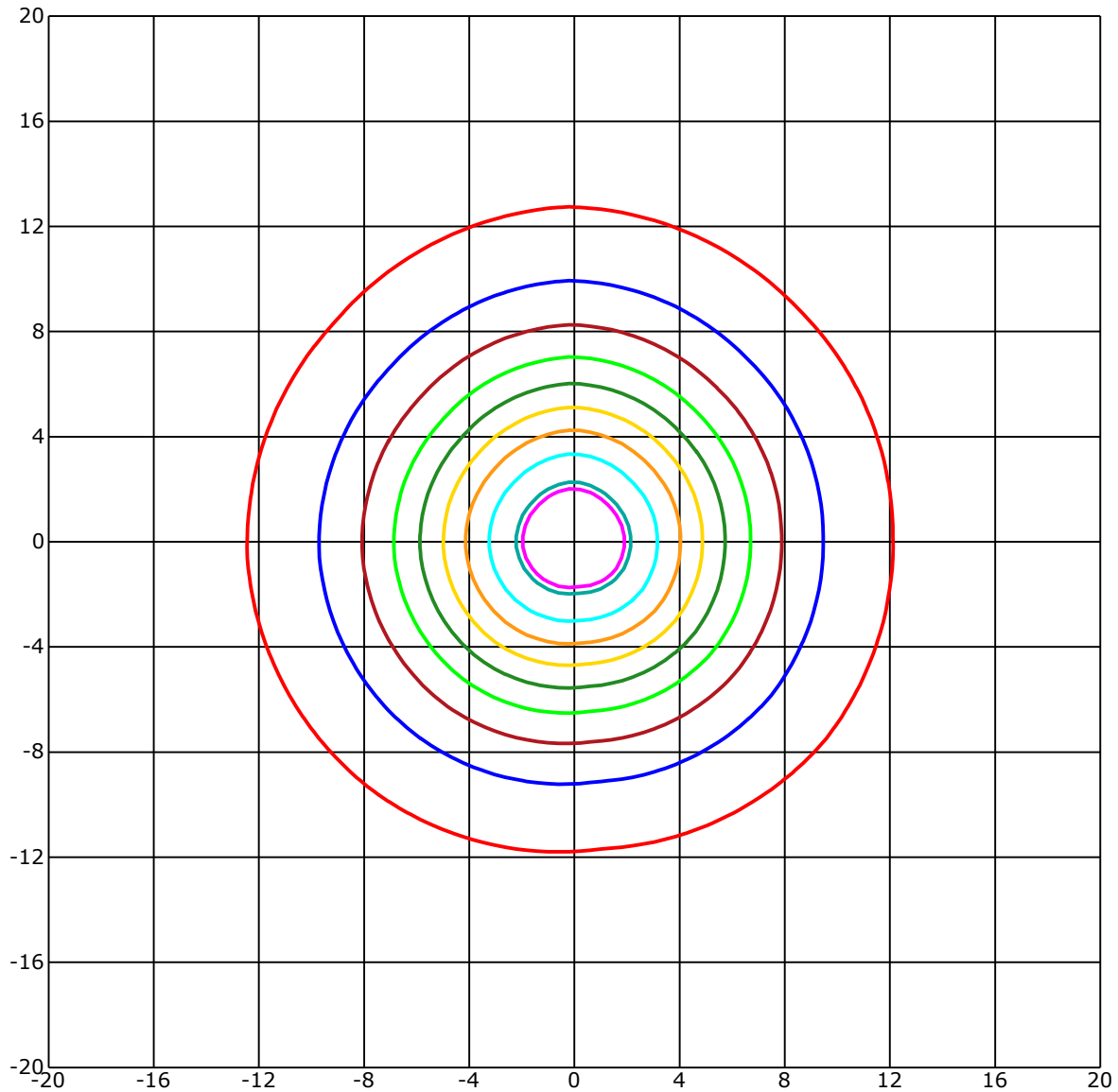
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ISOLX DIAGRAM



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

12.725(92%Emax)	6.916(50%Emax)
12.449(90%Emax)	5.533(40%Emax)
11.065(80%Emax)	4.15(30%Emax)
9.682(70%Emax)	2.766(20%Emax)
8.299(60%Emax)	1.383(10%Emax)

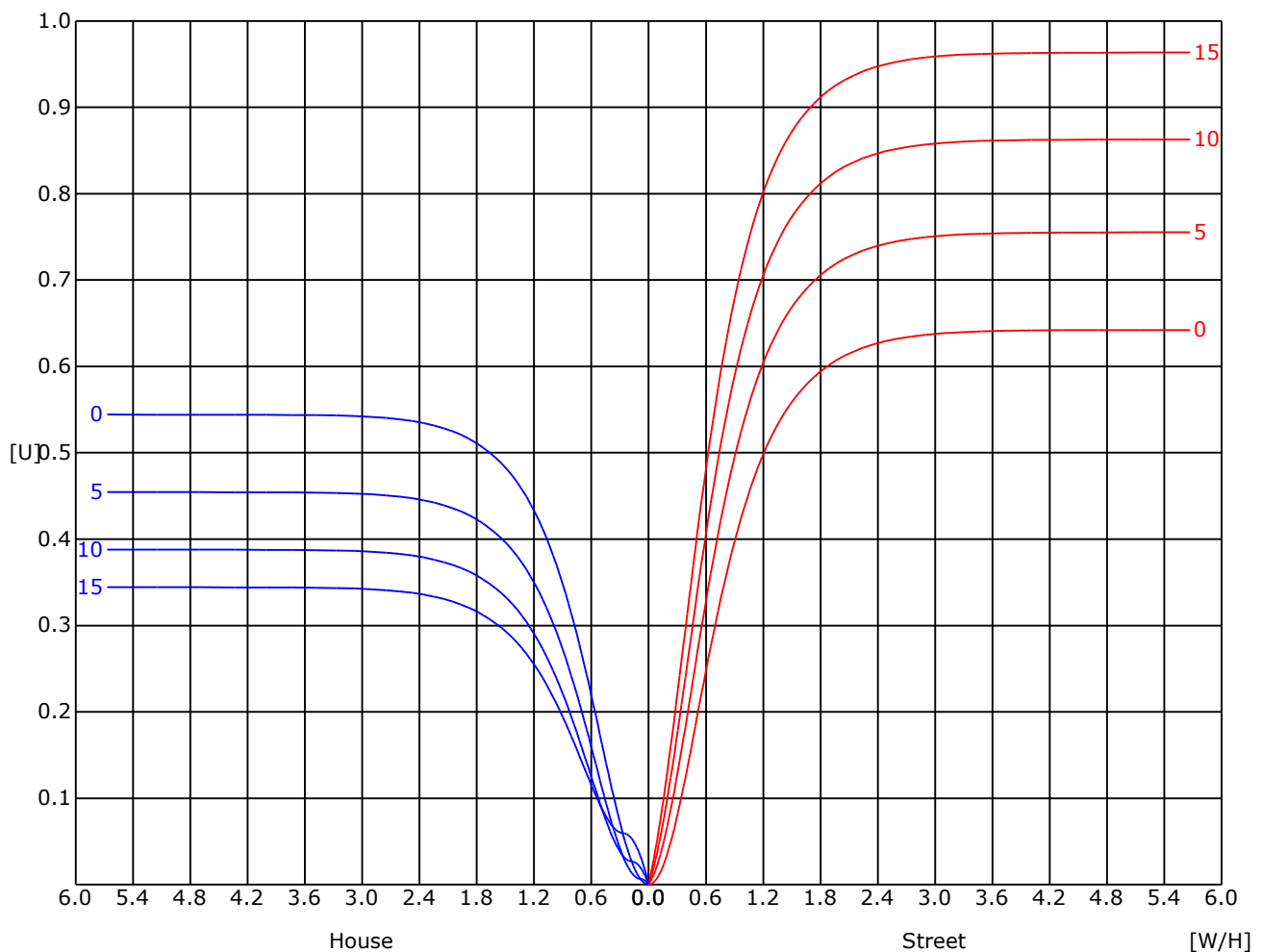
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	16.03	16.10	16.23	16.29	16.53	16.37	16.43	16.57	16.62	16.87
3H	16.06	16.12	16.26	16.31	16.56	16.36	16.43	16.57	16.62	16.87
4H	16.03	16.10	16.25	16.29	16.54	16.34	16.40	16.55	16.60	16.85
6H	16.01	16.07	16.22	16.27	16.52	16.31	16.38	16.53	16.58	16.83
8H	15.99	16.05	16.21	16.26	16.51	16.30	16.36	16.52	16.56	16.82
12H	15.98	16.04	16.20	16.25	16.50	16.29	16.35	16.51	16.55	16.81
4H 2H	16.51	16.57	16.72	16.77	17.02	17.14	17.21	17.36	17.40	17.65
3H	16.53	16.59	16.75	16.80	17.05	17.14	17.20	17.36	17.41	17.66
4H	16.50	16.56	16.73	16.77	17.03	17.11	17.17	17.34	17.38	17.64
6H	16.47	16.53	16.71	16.75	17.01	17.08	17.13	17.32	17.35	17.62
8H	16.45	16.51	16.70	16.73	17.00	17.06	17.11	17.30	17.34	17.61
12H	16.44	16.49	16.69	16.72	16.99	17.04	17.09	17.29	17.32	17.59
8H 4H	16.47	16.53	16.69	16.73	16.99	17.11	17.17	17.33	17.37	17.63
6H	16.42	16.46	16.67	16.70	16.97	17.03	17.08	17.29	17.32	17.59
8H	16.40	16.44	16.66	16.69	16.96	17.01	17.05	17.27	17.30	17.58
12H	16.38	16.42	16.65	16.67	16.95	16.99	17.03	17.26	17.28	17.56
12H 4H	16.44	16.49	16.69	16.72	16.99	17.05	17.10	17.30	17.33	17.60
6H	16.40	16.44	16.66	16.69	16.96	17.01	17.06	17.27	17.30	17.58

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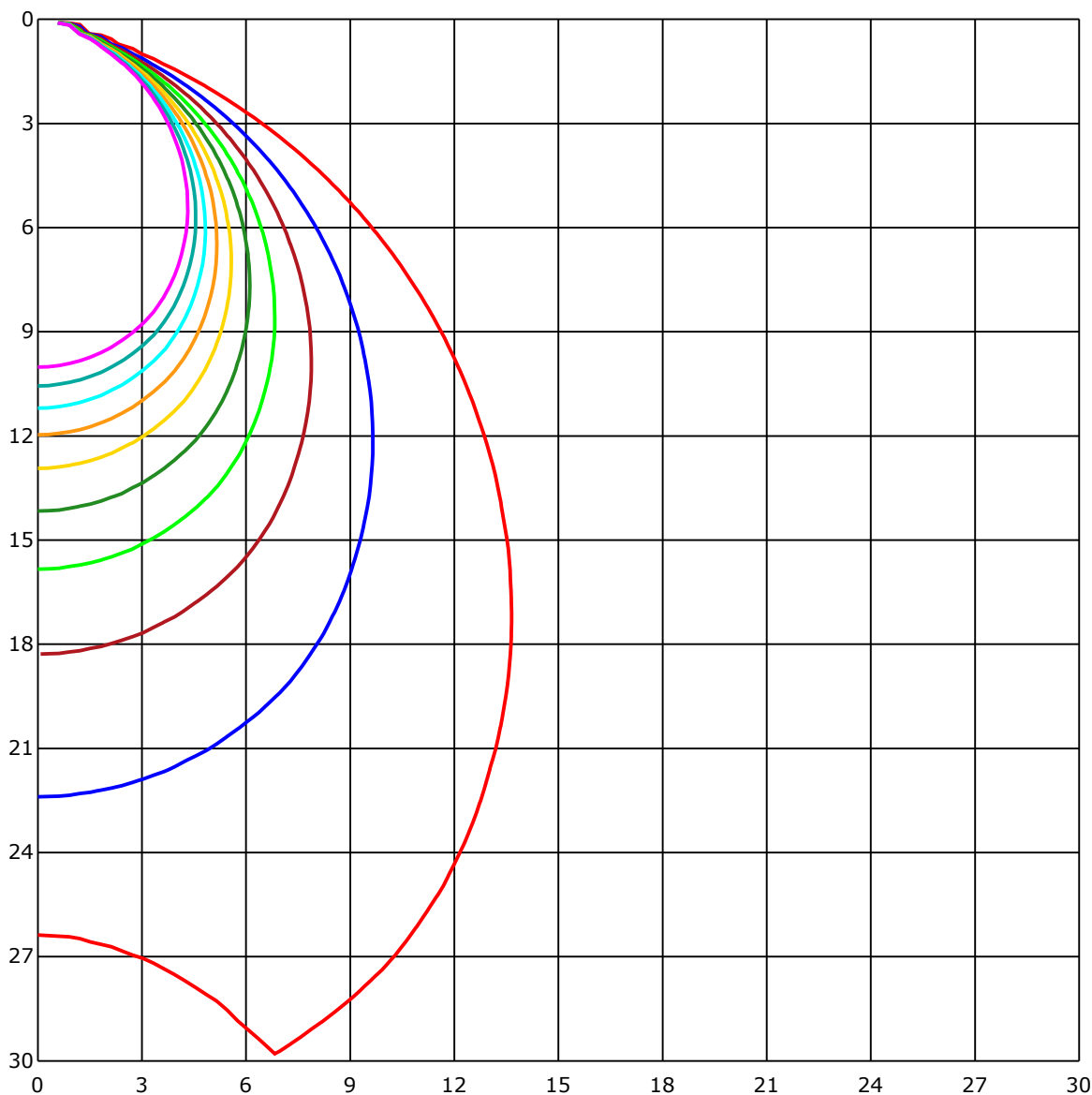
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

13.781	6.891
12.403	5.513
11.025	4.134
9.647	2.756
8.269	1.378

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 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.71 m
 Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1382.2	1371.66	1373.24	1383.19	1382.2	1371.66	1373.24	1383.19	1382.2	
G1	1381.34	1375.44	1377.51	1382.38	1383.32	1371.07	1372.02	1377.51	1381.34	
G2	1381.93	1370.85	1376.3	1378.59	1381.84	1370.8	1369.05	1378.01	1381.93	
G3	1376.66	1373.37	1377.2	1379.27	1381.47	1369.0	1367.52	1380.66	1376.66	
G4	1375.71	1368.01	1374.72	1376.21	1379.45	1366.39	1361.53	1374.09	1375.71	
G5	1370.22	1367.79	1375.31	1371.48	1374.72	1365.0	1357.75	1368.42	1370.22	
G6	1368.82	1360.36	1372.11	1370.22	1375.31	1358.02	1351.22	1368.19	1368.82	
G7	1362.75	1356.89	1369.14	1364.01	1369.27	1356.26	1345.86	1359.23	1362.75	
G8	1357.21	1351.98	1369.63	1363.02	1365.49	1350.0	1338.07	1353.88	1357.21	
G9	1351.17	1348.43	1365.49	1354.91	1358.15	1348.07	1331.72	1347.75	1351.17	
G10	1347.08	1340.28	1355.77	1349.69	1353.11	1336.72	1322.63	1341.85	1347.08	
G11	1334.83	1335.37	1351.44	1341.0	1344.56	1332.31	1314.03	1333.57	1334.83	
G12	1327.63	1326.95	1344.47	1336.63	1340.28	1322.67	1304.84	1327.4	1327.63	
G13	1320.65	1319.84	1337.8	1328.57	1329.65	1315.2	1297.73	1316.96	1320.65	
G14	1310.25	1307.95	1332.4	1321.01	1323.08	1303.49	1284.45	1313.31	1310.25	
G15	1298.41	1301.56	1328.17	1308.94	1312.99	1294.8	1274.23	1297.91	1298.41	
G16	1288.68	1294.22	1316.87	1299.89	1305.07	1284.72	1262.16	1290.3	1288.68	
G17	1277.47	1278.87	1308.13	1288.5	1293.23	1275.98	1251.67	1278.41	1277.47	
G18	1266.3	1267.47	1295.43	1279.27	1282.24	1263.29	1234.61	1265.63	1266.3	
G19	1253.11	1258.29	1287.51	1267.34	1269.64	1252.03	1219.88	1253.25	1253.11	
G20	1241.45	1245.01	1275.49	1255.99	1261.08	1238.21	1205.16	1240.46	1241.45	
G21	1226.68	1233.66	1265.72	1240.32	1244.78	1225.87	1190.44	1224.84	1226.68	
G22	1209.57	1214.62	1250.05	1227.09	1231.5	1206.83	1171.53	1209.39	1209.57	
G23	1192.19	1202.23	1238.75	1210.61	1216.73	1192.51	1155.09	1189.72	1192.19	
G24	1173.64	1181.84	1224.12	1194.04	1199.35	1172.52	1131.77	1174.5	1173.64	
G25	1157.93	1166.44	1210.16	1175.31	1181.25	1158.34	1113.0	1155.18	1157.93	
G26	1135.15	1148.25	1191.97	1160.9	1164.73	1137.8	1090.62	1137.62	1135.15	
G27	1115.97	1130.33	1174.32	1137.62	1145.55	1118.22	1071.75	1115.43	1115.97	
G28	1094.76	1107.73	1157.16	1121.82	1127.0	1097.01	1048.66	1095.03	1094.76	
G29	1072.52	1086.79	1138.43	1097.82	1104.8	1076.03	1026.41	1074.41	1072.52	
G30	1049.38	1063.69	1117.77	1079.72	1086.21	1055.23	1001.56	1053.47	1049.38	
G31	1025.42	1042.4	1098.23	1053.97	1063.47	1034.07	978.87	1029.7	1025.42	
G32	1004.22	1018.67	1075.45	1034.16	1041.9	1008.0	954.87	1007.37	1004.22	
G33	980.72	998.23	1055.14	1009.49	1017.64	987.51	931.14	983.6	980.72	
G34	957.44	973.51	1030.6	986.48	996.34	964.01	905.93	961.35	957.44	
G35	933.8	950.86	1010.21	965.27	972.3	940.91	881.26	935.78	933.8	
G36	909.08	927.23	986.52	940.15	948.07	915.34	856.63	912.19	909.08	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	884.27	902.73	963.34	915.25	924.12	890.49	832.63	887.24	884.27	
G38	859.65	878.06	939.61	892.6	900.3	869.24	806.43	863.25	859.65	
G39	833.17	853.97	914.17	866.71	876.35	842.09	782.34	838.53	833.17	
G40	807.91	827.72	890.89	843.62	851.32	816.69	755.82	814.26	807.91	
G41	783.55	803.28	867.34	817.55	826.24	791.97	730.02	786.89	783.55	
G42	757.44	775.68	841.68	790.44	801.34	767.35	702.11	762.75	757.44	
G43	729.12	751.05	817.77	765.23	776.04	740.29	675.68	735.2	729.12	
G44	703.91	724.3	791.3	739.57	751.0	713.63	649.43	710.62	703.91	
G45	678.42	699.94	768.38	713.05	725.02	688.82	625.38	682.75	678.42	
G46	652.35	673.61	738.31	687.16	697.47	661.76	597.02	658.43	652.35	
G47	624.44	647.99	714.13	661.49	671.26	636.6	571.45	629.89	624.44	
G48	597.97	621.51	686.89	636.73	646.37	609.0	544.88	604.58	597.97	
G49	571.54	595.58	662.62	608.46	619.53	583.87	518.95	578.24	571.54	
G50	546.05	571.54	636.96	583.56	593.24	557.4	492.74	551.64	546.05	
G51	518.36	543.67	609.09	556.09	567.26	531.87	466.04	525.66	518.36	
G52	492.83	517.24	582.88	530.47	541.5	504.63	440.02	501.48	492.83	
G53	466.13	491.84	558.25	505.26	514.94	480.36	415.08	474.55	466.13	
G54	439.93	465.73	529.75	478.97	489.59	453.66	387.97	447.81	439.93	
G55	413.1	439.26	503.32	451.5	462.17	427.14	361.9	420.57	413.1	
G56	388.6	412.96	477.93	427.55	436.42	400.13	337.41	395.27	388.6	
G57	362.26	388.56	452.31	402.43	410.53	374.33	312.83	368.84	362.26	
G58	336.78	363.16	425.03	375.82	384.78	351.19	288.47	343.8	336.78	
G59	311.66	338.31	400.17	349.97	359.34	323.86	264.92	318.1	311.66	
G60	286.04	314.31	373.88	325.52	334.03	299.14	241.15	292.93	286.04	
G61	261.73	289.05	349.7	299.73	309.05	275.37	217.74	268.43	261.73	
G62	237.46	264.43	324.4	275.14	284.33	250.74	195.09	244.08	237.46	
G63	213.68	241.51	299.1	250.74	259.07	227.28	172.17	220.8	213.68	
G64	190.0	216.97	275.37	227.55	235.25	204.81	150.34	197.34	190.0	
G65	167.58	194.05	252.04	203.78	212.42	182.66	129.71	174.29	167.58	
G66	145.38	171.18	227.33	180.82	188.7	159.88	108.64	152.59	145.38	
G67	123.46	149.39	203.82	158.66	165.28	138.45	88.88	130.8	123.46	
G68	103.74	128.05	180.5	137.28	143.9	117.02	70.78	109.59	103.74	
G69	84.74	108.1	157.99	116.93	122.78	97.3	54.12	90.14	84.74	
G70	66.41	88.97	136.29	97.52	102.97	78.39	38.0	71.77	66.41	
G71	49.26	70.73	115.26	78.75	83.7	60.87	24.67	54.25	49.26	
G72	34.04	53.8	95.5	61.28	66.01	44.57	13.64	38.86	34.04	
G73	20.53	37.96	76.81	44.53	49.39	30.84	5.4	25.71	20.53	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

G Range: 0 - 90 Deg
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Test Distance: 6.71 m
Remarks:

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