

Report No.:

Test Time: 2024/9/12 9:34:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-34.9W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

Voltage(V): 219.80 V
Current(A): 0.1630 A
Power(W): 34.85 W
Power Factor: 0.9690
Lamp Luminous Flux: 3636.64

Photometric Results

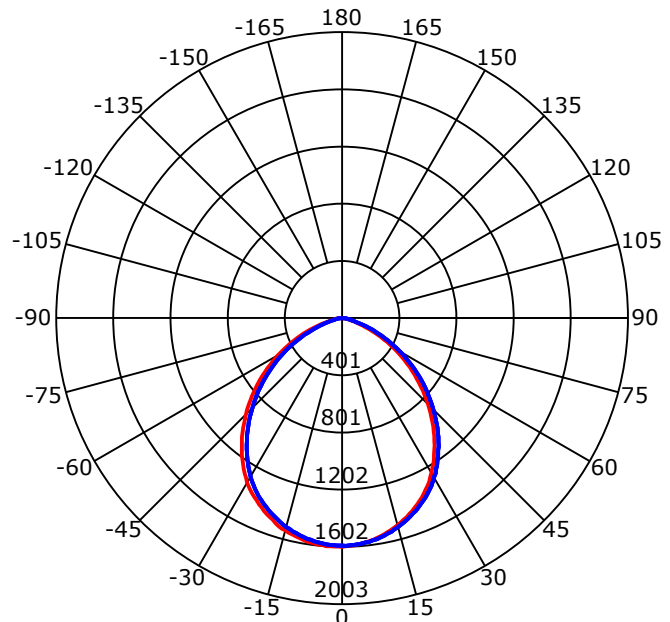
CIE Class: Direct
Luminaire Luminous Flux: 3636.635 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.35 lm/W
Beam Angle(50%) C0-180,C90-270: 96.9,96.9
Field Angle(10%) C0-180,C90-270: 143.1,143.0
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1602.11 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1602.11 cd
Effective Luminous Flux: 3526.46 lm
ERP(ϕ use)(120deg): 3175.98 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 96.9 deg,96.9 deg

C0-180 — C90-270 —

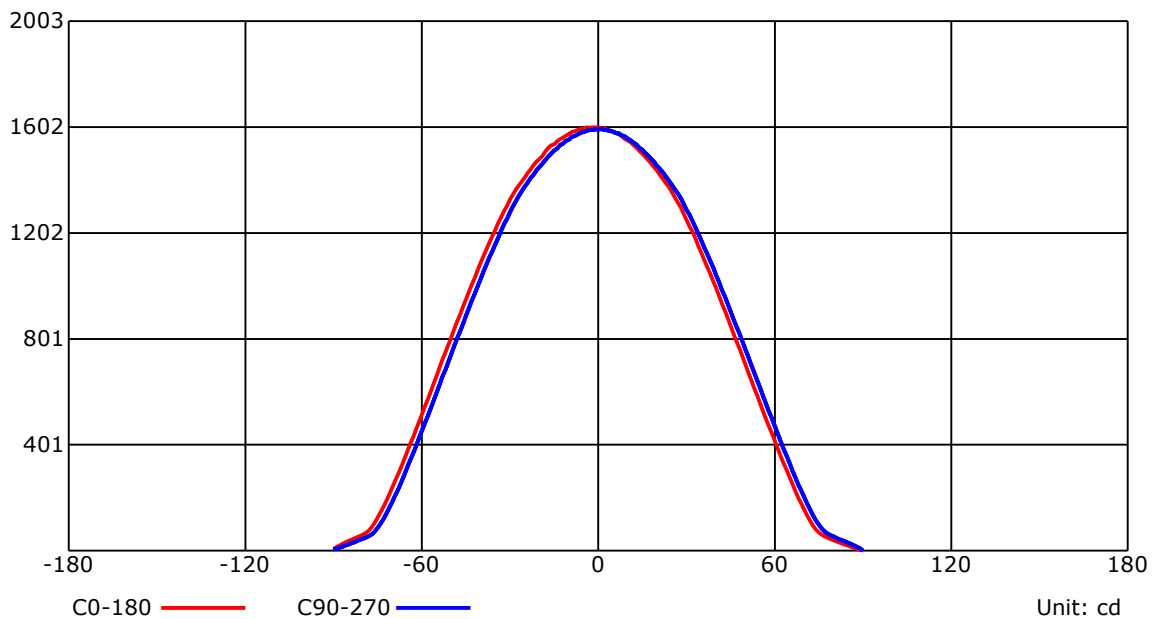
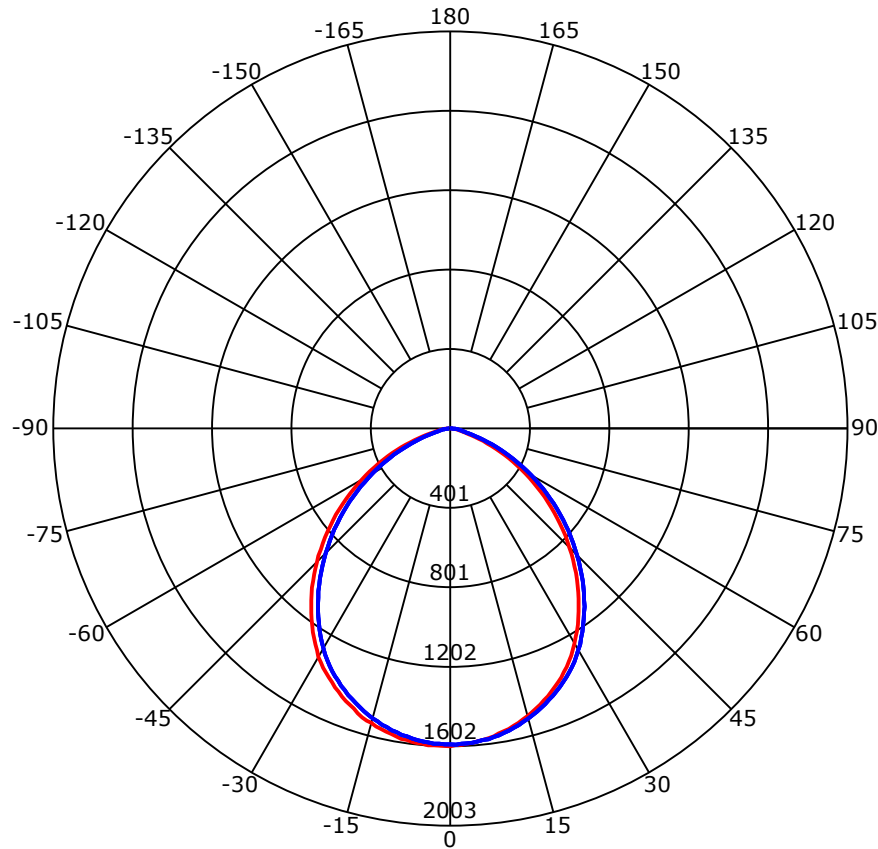
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 9:34:17

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



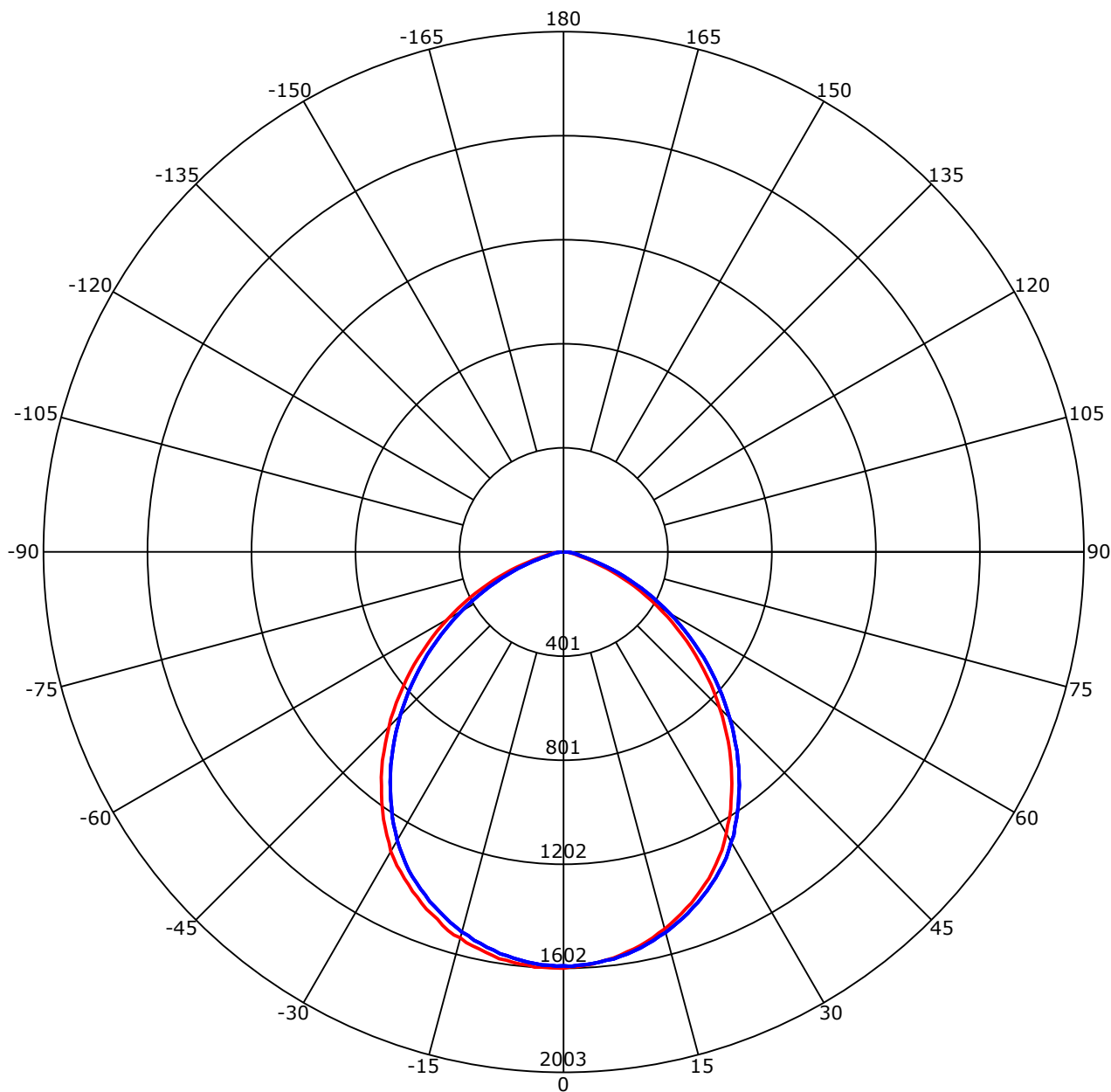
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

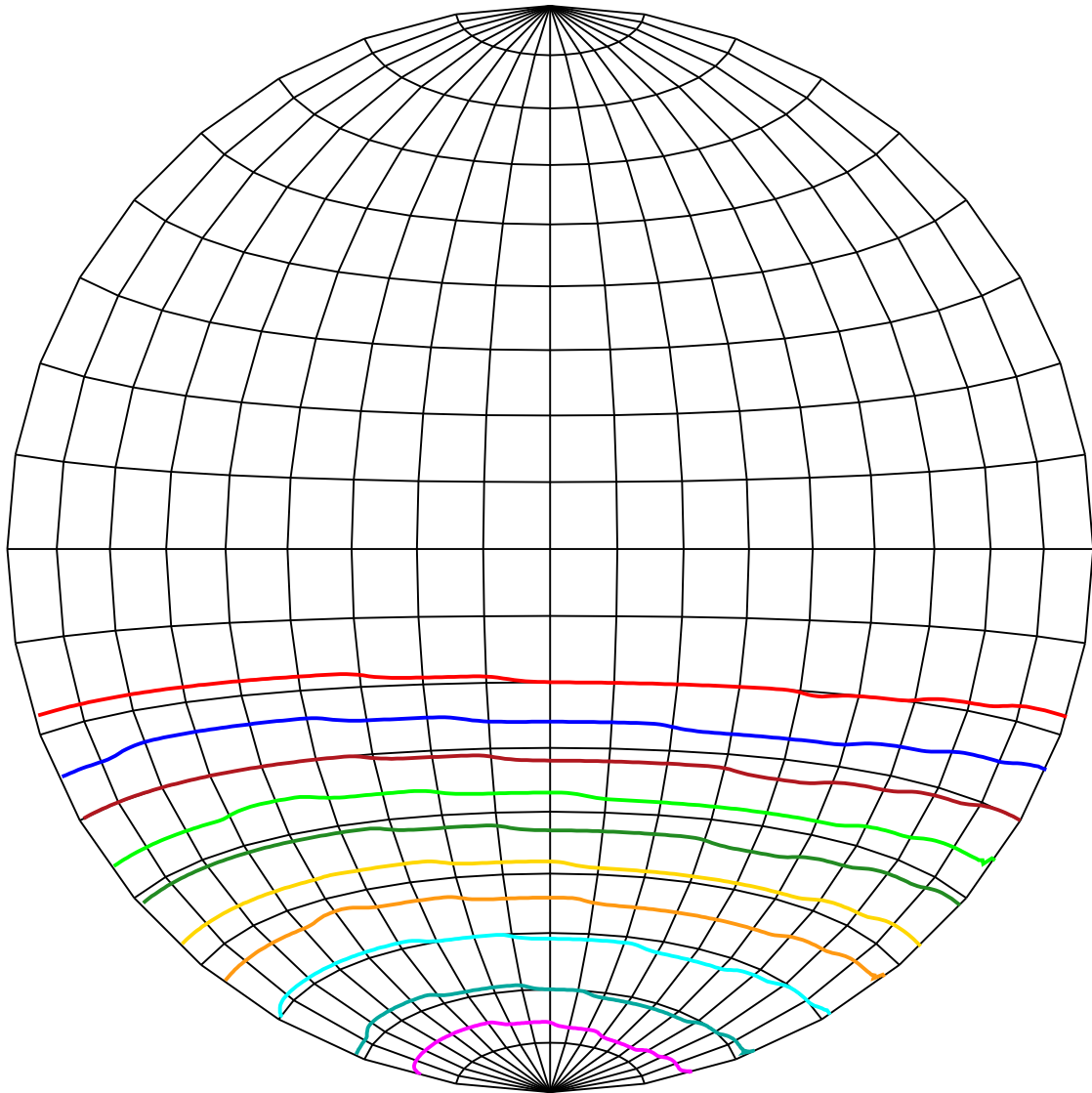
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1602.109 cd

1522.004(95%Imax)	801.055(50%Imax)
1441.898(90%Imax)	640.844(40%Imax)
1281.687(80%Imax)	480.633(30%Imax)
1121.476(70%Imax)	320.422(20%Imax)
961.265(60%Imax)	160.211(10%Imax)

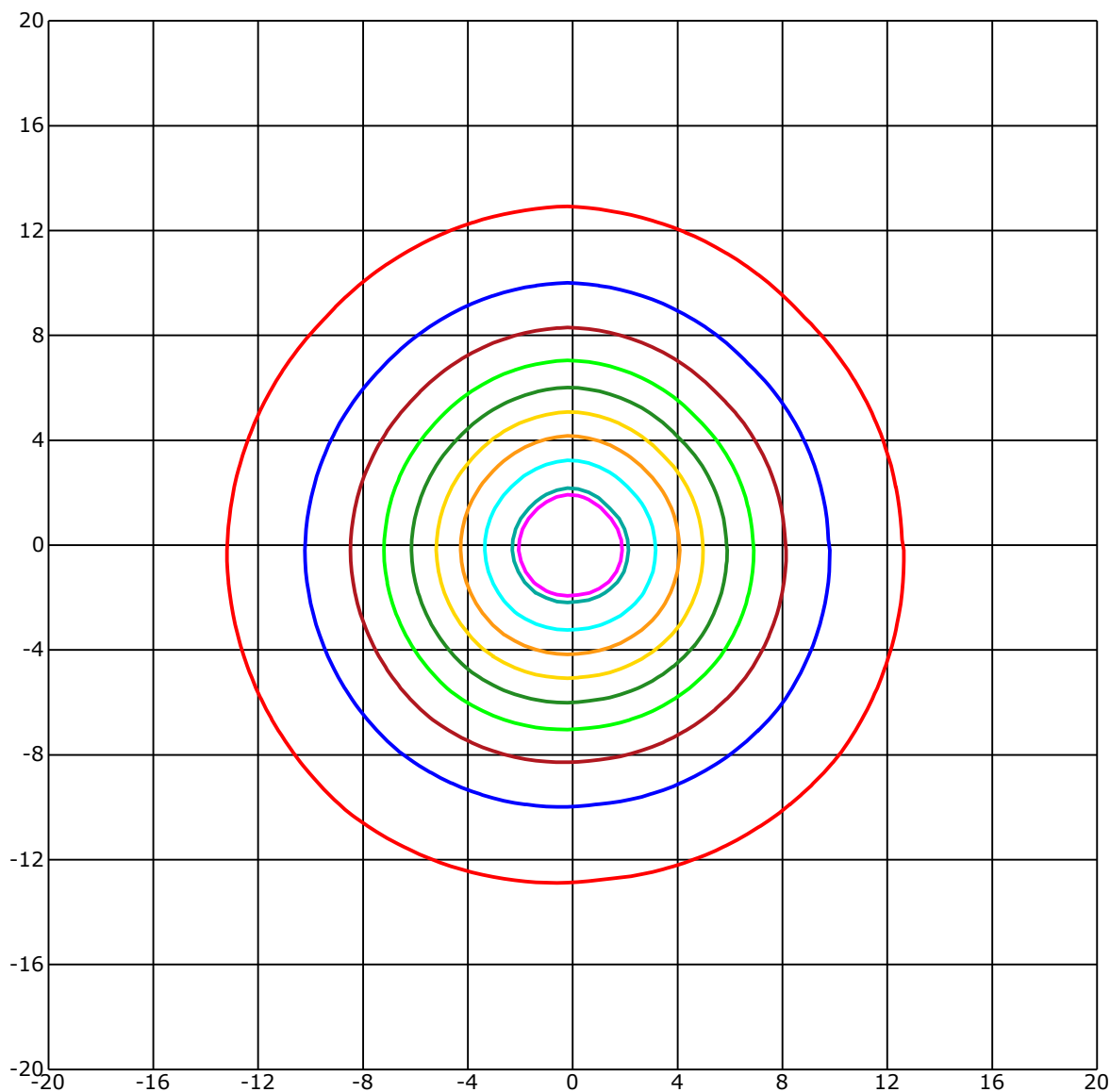
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ISOLX DIAGRAM



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

14.739(92%Emax)	8.011(50%Emax)
14.419(90%Emax)	6.408(40%Emax)
12.817(80%Emax)	4.806(30%Emax)
11.215(70%Emax)	3.204(20%Emax)
9.613(60%Emax)	1.602(10%Emax)

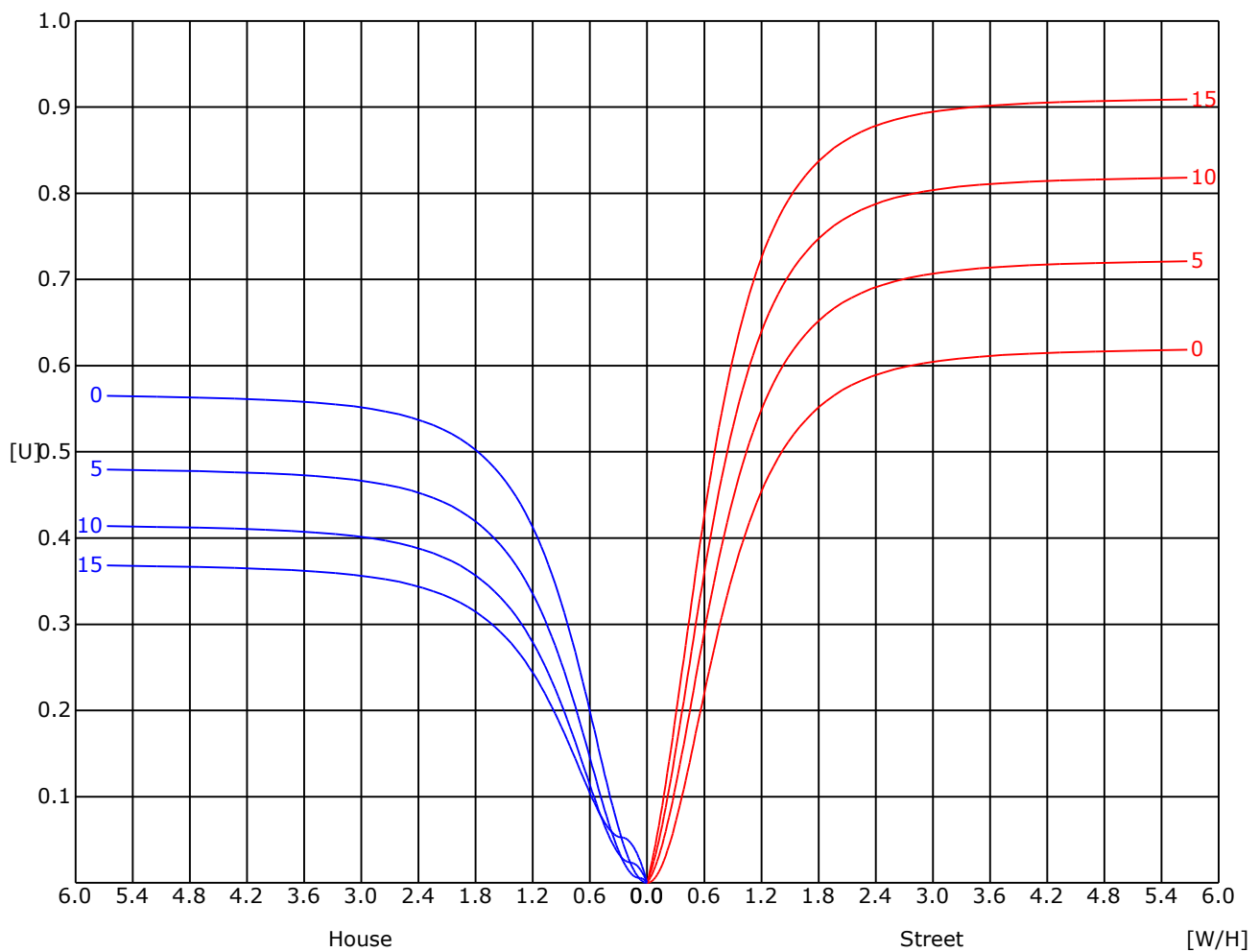
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UTILIZATION FACTOR DIAGRAM (ROAD)



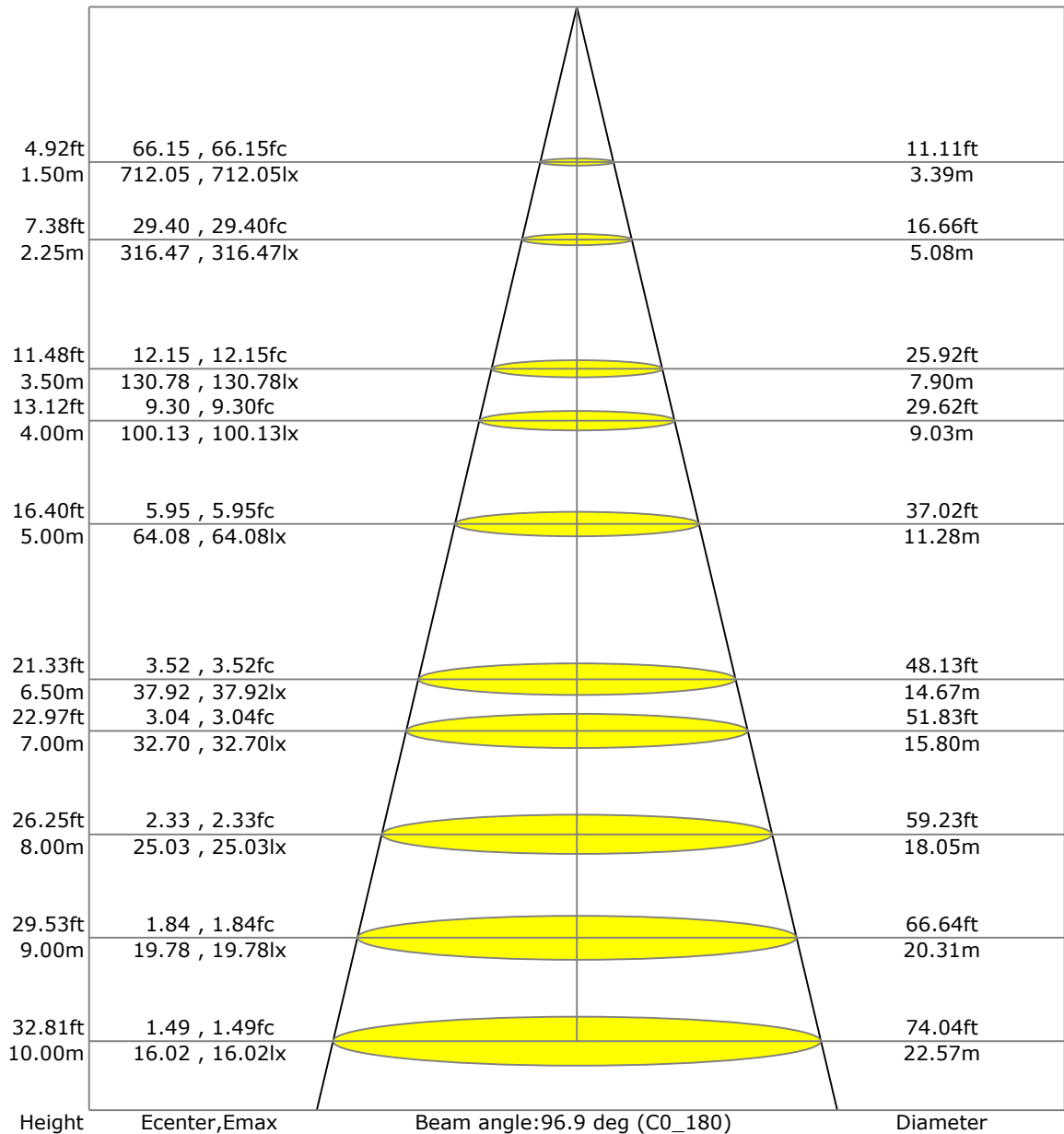
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LX-DISTANCE DIAGRAM



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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	16.97	17.04	17.17	17.23	17.47	17.14	17.21	17.34	17.40	17.65
	3H	17.00	17.07	17.21	17.26	17.51	17.16	17.23	17.37	17.43	17.67
	4H	16.99	17.05	17.20	17.25	17.50	17.14	17.21	17.35	17.41	17.66
	6H	16.96	17.02	17.18	17.22	17.48	17.12	17.18	17.33	17.38	17.63
	8H	16.94	17.01	17.16	17.21	17.47	17.10	17.17	17.32	17.37	17.62
	12H	16.93	16.99	17.15	17.20	17.45	17.09	17.15	17.31	17.36	17.61
4H	2H	17.81	17.88	18.03	18.08	18.33	18.18	18.25	18.39	18.44	18.69
	3H	17.88	17.94	18.10	18.15	18.40	18.23	18.29	18.45	18.49	18.75
	4H	17.86	17.92	18.09	18.14	18.39	18.21	18.27	18.44	18.48	18.74
	6H	17.84	17.89	18.08	18.11	18.38	18.18	18.24	18.42	18.46	18.72
	8H	17.82	17.87	18.06	18.10	18.37	18.16	18.22	18.41	18.44	18.71
	12H	17.80	17.85	18.05	18.08	18.35	18.14	18.19	18.39	18.43	18.70
8H	4H	17.85	17.91	18.07	18.12	18.37	18.25	18.32	18.47	18.52	18.77
	6H	17.91	17.96	18.17	18.20	18.47	18.30	18.35	18.55	18.59	18.86
	8H	17.90	17.94	18.16	18.19	18.46	18.28	18.33	18.55	18.57	18.85
	12H	17.88	17.92	18.15	18.17	18.45	18.26	18.30	18.53	18.56	18.84
12H	4H	17.94	17.99	18.19	18.22	18.49	18.35	18.40	18.60	18.63	18.90
	6H	17.92	17.97	18.19	18.21	18.49	18.34	18.38	18.60	18.63	18.90

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ZONAL LUMINOUS FLUX TABLE

[illegible]

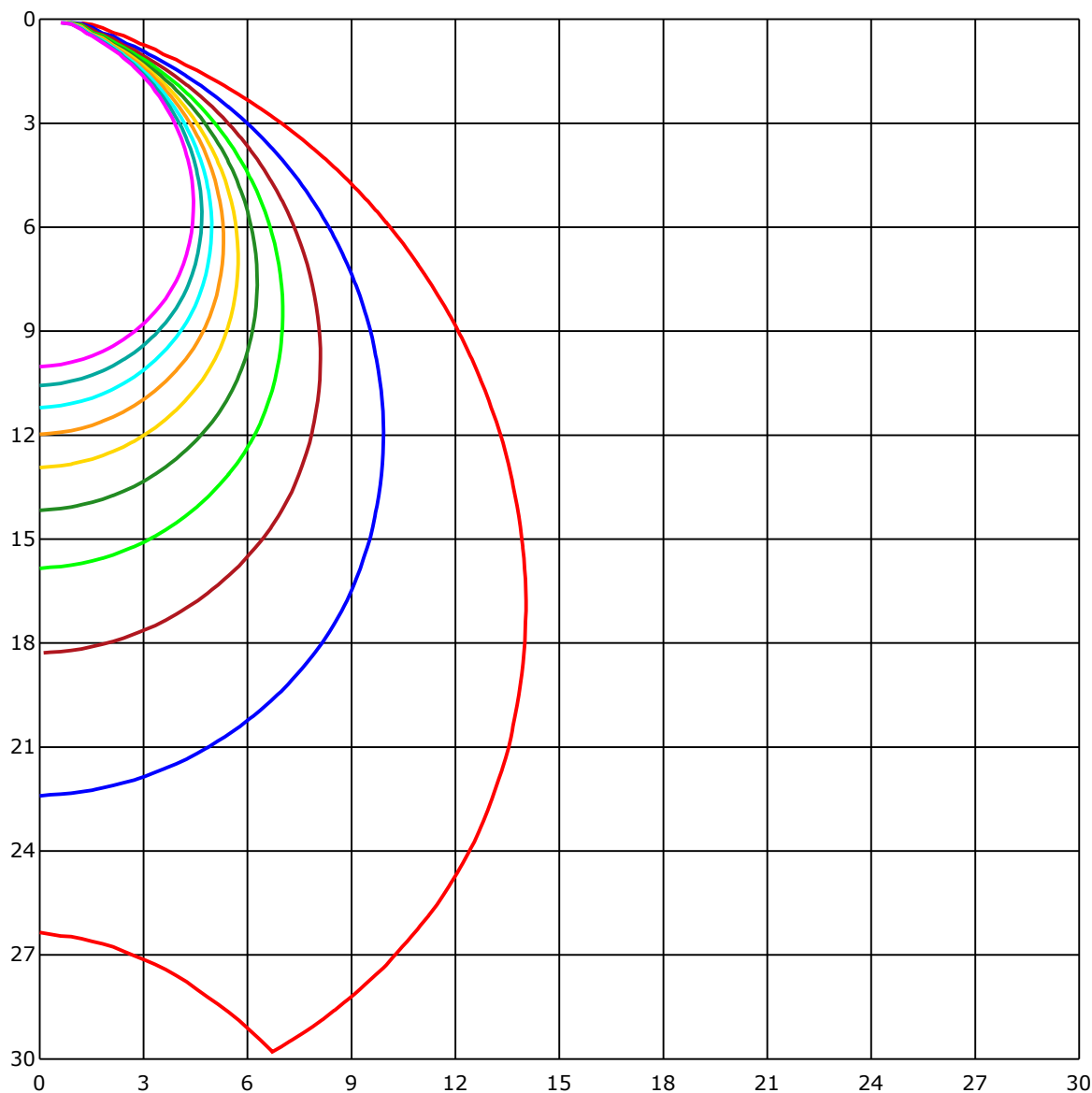
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

15.957

14.362

12.766

11.17

9.574

7.979

6.383

4.787

3.191

1.596

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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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1602.11	1587.69	1592.6	1597.19	1602.11	1587.69	1592.6	1597.19	1602.11	
G1	1597.01	1588.66	1594.55	1596.59	1600.72	1589.36	1593.2	1595.8	1597.01	
G2	1596.87	1583.28	1591.16	1598.72	1600.9	1590.28	1590.89	1597.19	1596.87	
G3	1592.56	1578.36	1590.42	1592.93	1600.3	1591.58	1591.3	1593.3	1592.56	
G4	1589.87	1575.03	1588.01	1592.37	1601.18	1590.93	1587.5	1593.07	1589.87	
G5	1582.96	1569.88	1584.81	1585.46	1595.57	1588.29	1584.02	1587.64	1582.96	
G6	1578.78	1563.99	1579.71	1582.35	1594.97	1587.18	1579.85	1584.9	1578.78	
G7	1573.82	1557.36	1578.27	1577.44	1591.3	1585.46	1574.89	1579.15	1573.82	
G8	1567.23	1551.23	1570.71	1570.62	1585.97	1584.07	1568.35	1577.07	1567.23	
G9	1557.82	1542.28	1566.91	1564.5	1584.44	1578.78	1565.7	1568.9	1557.82	
G10	1551.0	1536.07	1559.07	1559.95	1576.56	1572.61	1555.27	1561.16	1551.0	
G11	1543.49	1524.99	1551.7	1551.23	1569.14	1566.96	1549.98	1554.71	1543.49	
G12	1533.24	1515.29	1542.66	1544.05	1562.09	1559.63	1539.59	1550.08	1533.24	
G13	1523.27	1504.72	1535.19	1532.82	1555.64	1553.65	1534.12	1538.43	1523.27	
G14	1511.68	1493.73	1523.55	1526.42	1548.64	1545.07	1521.18	1531.34	1511.68	
G15	1501.7	1481.16	1515.8	1513.02	1537.14	1535.7	1514.23	1521.41	1501.7	
G16	1489.69	1469.84	1504.44	1503.33	1533.19	1528.93	1502.26	1508.89	1489.69	
G17	1476.29	1458.9	1493.45	1490.62	1523.5	1518.17	1490.99	1497.72	1476.29	
G18	1464.28	1443.36	1481.67	1481.53	1509.87	1507.69	1477.59	1489.23	1464.28	
G19	1449.3	1428.25	1470.03	1466.69	1493.68	1497.9	1464.65	1472.26	1449.3	
G20	1438.12	1416.93	1455.05	1453.52	1482.69	1484.13	1451.48	1463.31	1438.12	
G21	1420.64	1399.91	1443.78	1439.75	1472.21	1475.18	1439.93	1445.64	1420.64	
G22	1405.43	1387.3	1428.85	1426.44	1458.02	1460.29	1422.31	1431.54	1405.43	
G23	1389.57	1367.4	1414.98	1410.76	1441.83	1447.91	1409.37	1416.6	1389.57	
G24	1375.19	1352.56	1398.75	1396.25	1429.36	1432.93	1392.81	1403.57	1375.19	
G25	1355.9	1333.08	1384.23	1378.02	1412.38	1417.49	1378.53	1386.74	1355.9	
G26	1337.16	1314.16	1367.26	1364.15	1397.82	1403.34	1361.79	1373.24	1337.16	
G27	1316.9	1291.39	1350.7	1346.39	1381.82	1388.04	1341.94	1351.77	1316.9	
G28	1298.39	1270.52	1332.9	1324.92	1366.47	1371.3	1322.41	1336.56	1298.39	
G29	1274.6	1248.63	1311.15	1303.08	1348.2	1355.25	1302.75	1313.56	1274.6	
G30	1251.37	1223.36	1288.93	1282.21	1330.21	1337.39	1280.86	1293.06	1251.37	
G31	1226.42	1199.43	1271.08	1259.53	1305.12	1318.33	1257.21	1270.89	1226.42	
G32	1204.99	1176.79	1244.55	1236.48	1285.17	1295.33	1235.14	1248.49	1204.99	
G33	1180.41	1152.63	1222.2	1211.9	1262.13	1273.4	1211.39	1223.36	1180.41	
G34	1152.31	1125.73	1197.34	1189.22	1240.0	1251.18	1185.05	1199.43	1152.31	
G35	1127.45	1100.09	1173.45	1164.46	1214.22	1228.55	1160.24	1173.64	1127.45	
G36	1101.2	1073.61	1146.74	1138.02	1191.68	1206.52	1134.87	1151.66	1101.2	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1074.49	1046.06	1124.44	1111.08	1165.01	1179.44	1108.95	1124.71	1074.49	
G38	1047.82	1019.12	1095.96	1084.55	1139.55	1154.49	1082.65	1098.65	1047.82	
G39	1019.63	991.71	1071.29	1057.93	1115.48	1130.09	1057.28	1071.66	1019.63	
G40	993.93	964.58	1042.4	1030.76	1089.75	1102.82	1028.76	1044.3	993.93	
G41	964.81	937.03	1017.21	1003.67	1063.03	1077.92	1002.1	1017.77	964.81	
G42	936.01	908.55	987.39	976.22	1033.49	1053.62	974.36	990.18	936.01	
G43	907.3	879.34	960.77	946.68	1005.99	1025.05	945.79	961.42	907.3	
G44	878.78	850.21	932.81	919.64	979.05	995.74	916.53	936.24	878.78	
G45	849.24	821.97	903.87	889.77	951.03	966.8	888.89	905.63	849.24	
G46	820.63	793.45	875.07	861.9	924.65	938.98	859.3	877.39	820.63	
G47	792.57	764.37	847.62	832.73	893.81	911.15	830.5	848.78	792.57	
G48	763.72	736.08	818.91	803.51	866.31	882.58	802.4	821.6	763.72	
G49	732.46	706.08	789.92	775.27	836.81	854.67	774.3	791.64	732.46	
G50	703.66	676.58	760.29	745.59	807.13	824.71	743.55	762.93	703.66	
G51	674.03	647.46	732.51	716.93	778.89	797.34	714.98	732.79	674.03	
G52	645.23	618.47	702.37	686.78	750.97	768.59	684.98	706.17	645.23	
G53	615.13	589.67	674.22	657.33	721.84	738.96	657.94	676.12	615.13	
G54	586.8	559.71	643.14	628.81	691.7	709.0	626.63	646.71	586.8	
G55	556.1	531.38	614.9	598.21	660.63	680.89	597.0	616.29	556.1	
G56	527.02	502.44	584.9	568.9	632.11	650.7	567.64	587.63	527.02	
G57	498.03	474.52	556.65	540.05	602.52	620.98	538.94	559.16	498.03	
G58	470.9	445.3	527.3	512.22	573.63	591.71	509.53	530.45	470.9	
G59	441.69	417.11	499.1	481.89	544.18	562.31	481.34	501.09	441.69	
G60	414.05	389.98	469.93	453.98	514.91	533.79	452.58	473.41	414.05	
G61	385.66	363.03	442.06	425.18	485.93	504.66	424.9	444.1	385.66	
G62	357.93	334.42	412.79	396.47	459.08	476.0	395.5	415.9	357.93	
G63	331.13	308.26	385.85	369.01	428.7	447.25	368.13	388.21	331.13	
G64	304.46	281.09	357.42	341.37	402.13	419.19	339.98	360.3	304.46	
G65	277.14	255.49	330.43	313.78	373.51	391.55	313.6	332.93	277.14	
G66	251.82	230.16	302.09	288.13	344.95	362.8	285.96	305.48	251.82	
G67	225.2	205.45	276.08	261.51	317.95	335.25	258.96	278.26	225.2	
G68	200.25	181.42	249.87	236.89	291.84	307.75	233.97	251.92	200.25	
G69	176.6	159.16	225.06	212.22	265.6	281.46	209.71	226.22	176.6	
G70	154.57	137.78	200.76	188.98	240.18	255.39	185.69	201.74	154.57	
G71	132.82	117.7	177.44	165.98	214.54	229.79	163.2	177.53	132.82	
G72	113.25	99.62	154.99	144.14	190.74	204.89	141.4	154.99	113.25	
G73	95.3	83.8	133.84	123.22	167.09	181.24	121.13	133.8	95.3	

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