

Report No.:

Test Time: 2024/9/12 8:26:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-35.1W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

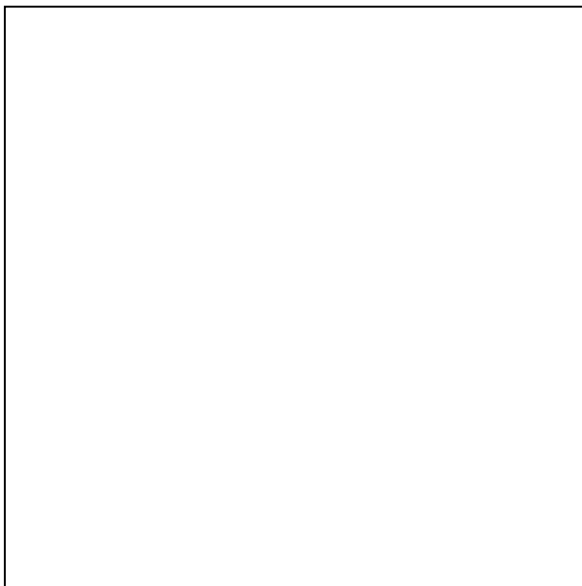
Voltage(V): 219.80 V
Current(A): 0.1640 A
Power(W): 35.12 W
Power Factor: 0.9680
Lamp Luminous Flux: 3339.04

Photometric Results

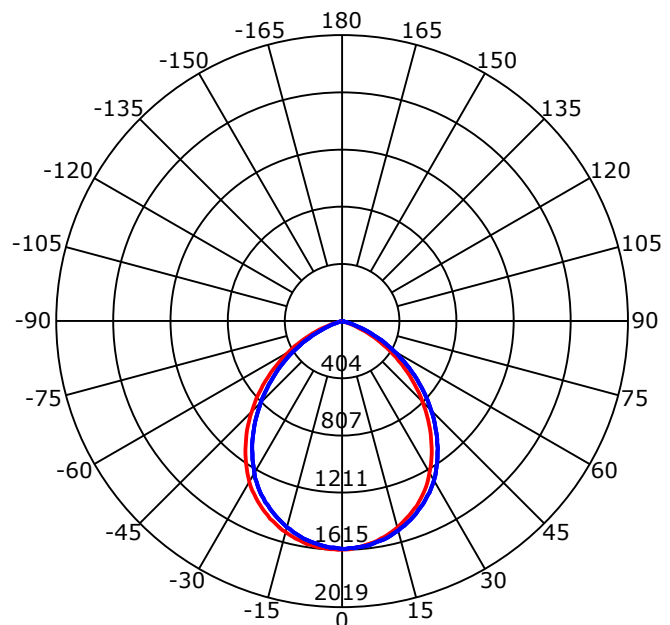
CIE Class: Direct
Luminaire Luminous Flux: 3339.042 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.08 lm/W
Beam Angle(50%) C0-180,C90-270: 93.0,92.9
Field Angle(10%) C0-180,C90-270: 136.0,136.0
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1614.86 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1613.01 cd
Effective Luminous Flux: 3272.20 lm
ERP(ϕ use)(120deg): 3058.07 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 93.0 deg,92.9 deg

C0-180 — C90-270 —

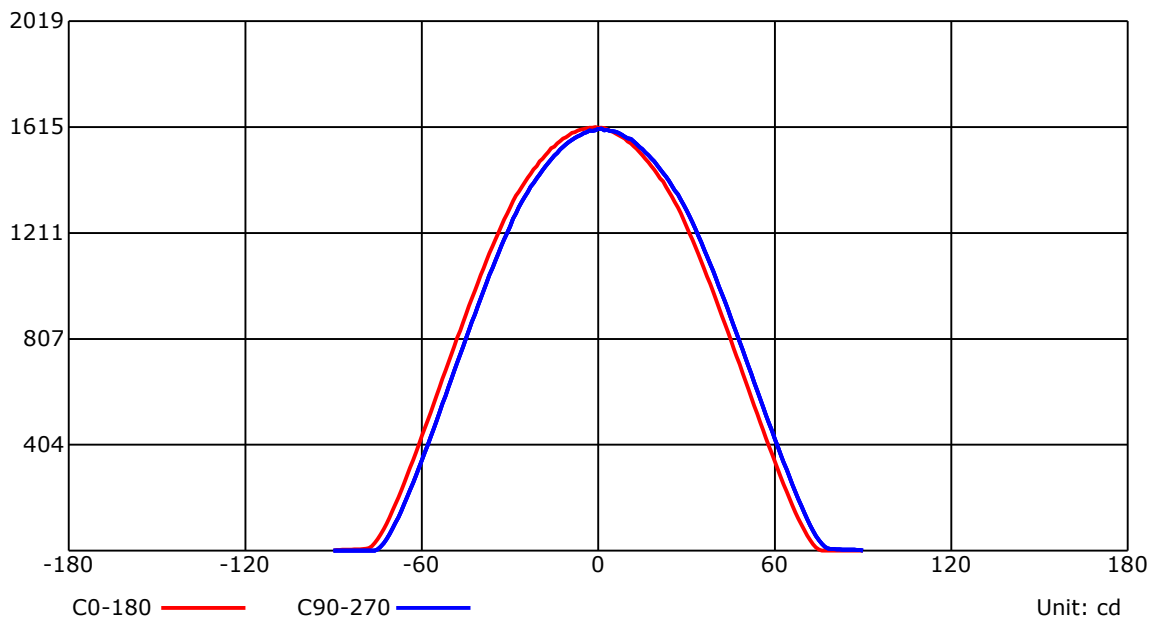
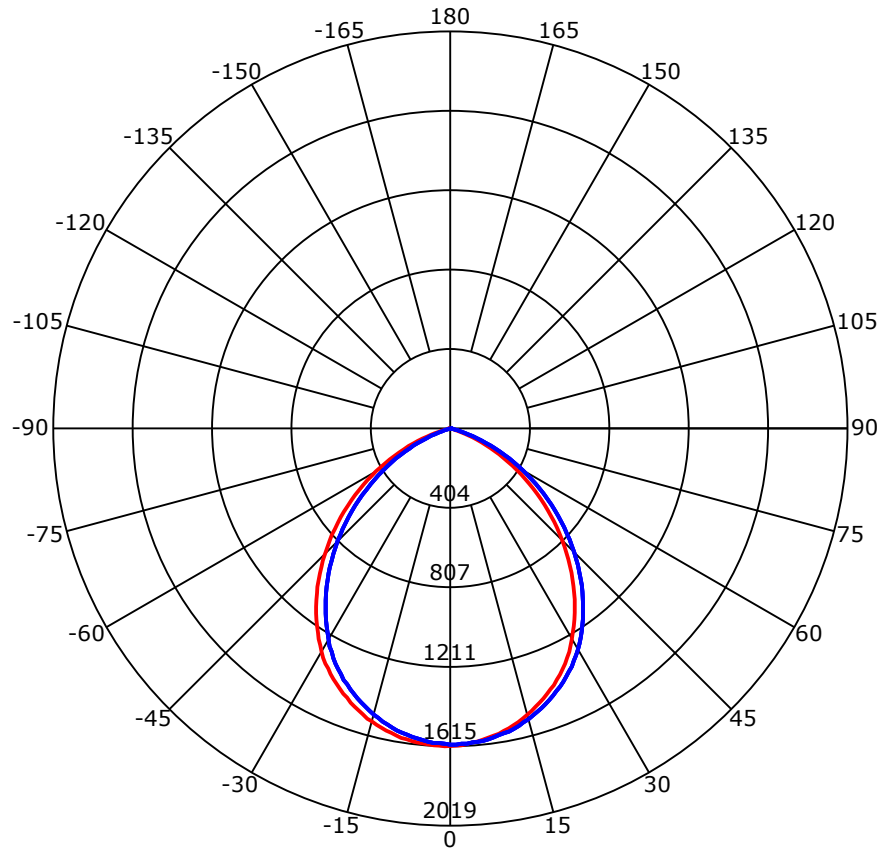
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/12 8:26:17

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



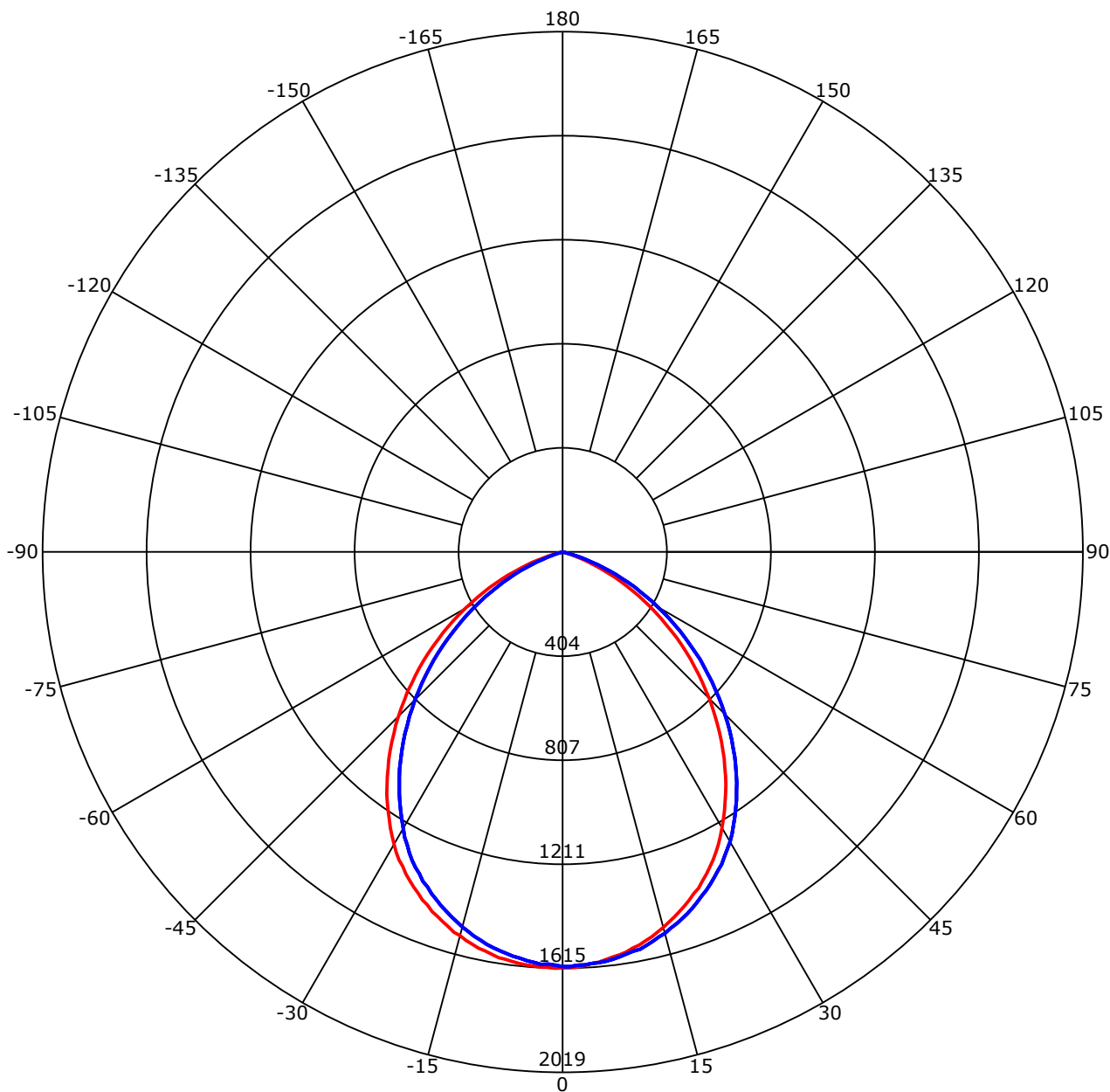
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

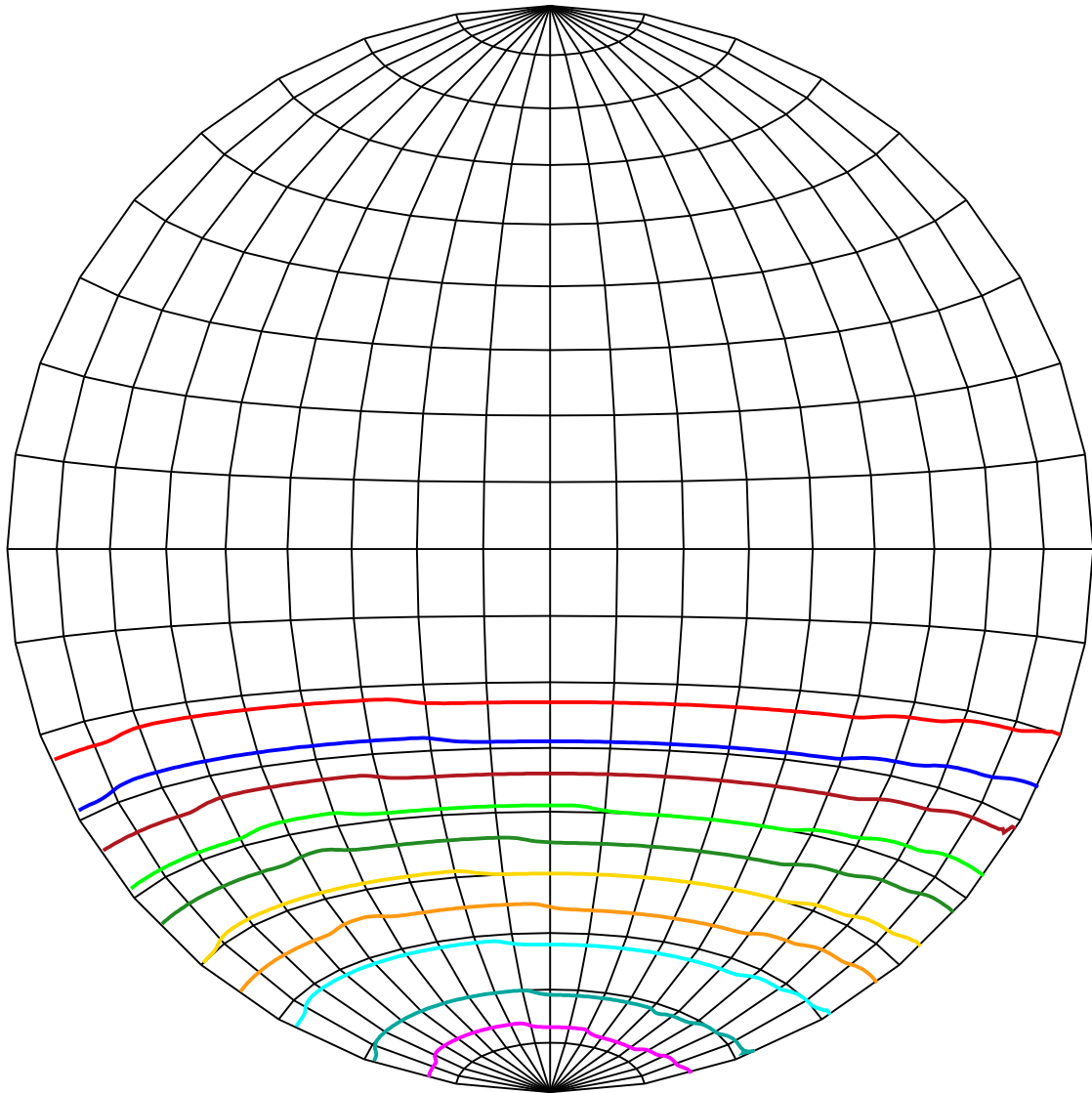
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1614.862 cd

1534.119(95%Imax)	807.431(50%Imax)
1453.376(90%Imax)	645.945(40%Imax)
1291.89(80%Imax)	484.459(30%Imax)
1130.403(70%Imax)	322.972(20%Imax)
968.917(60%Imax)	161.486(10%Imax)

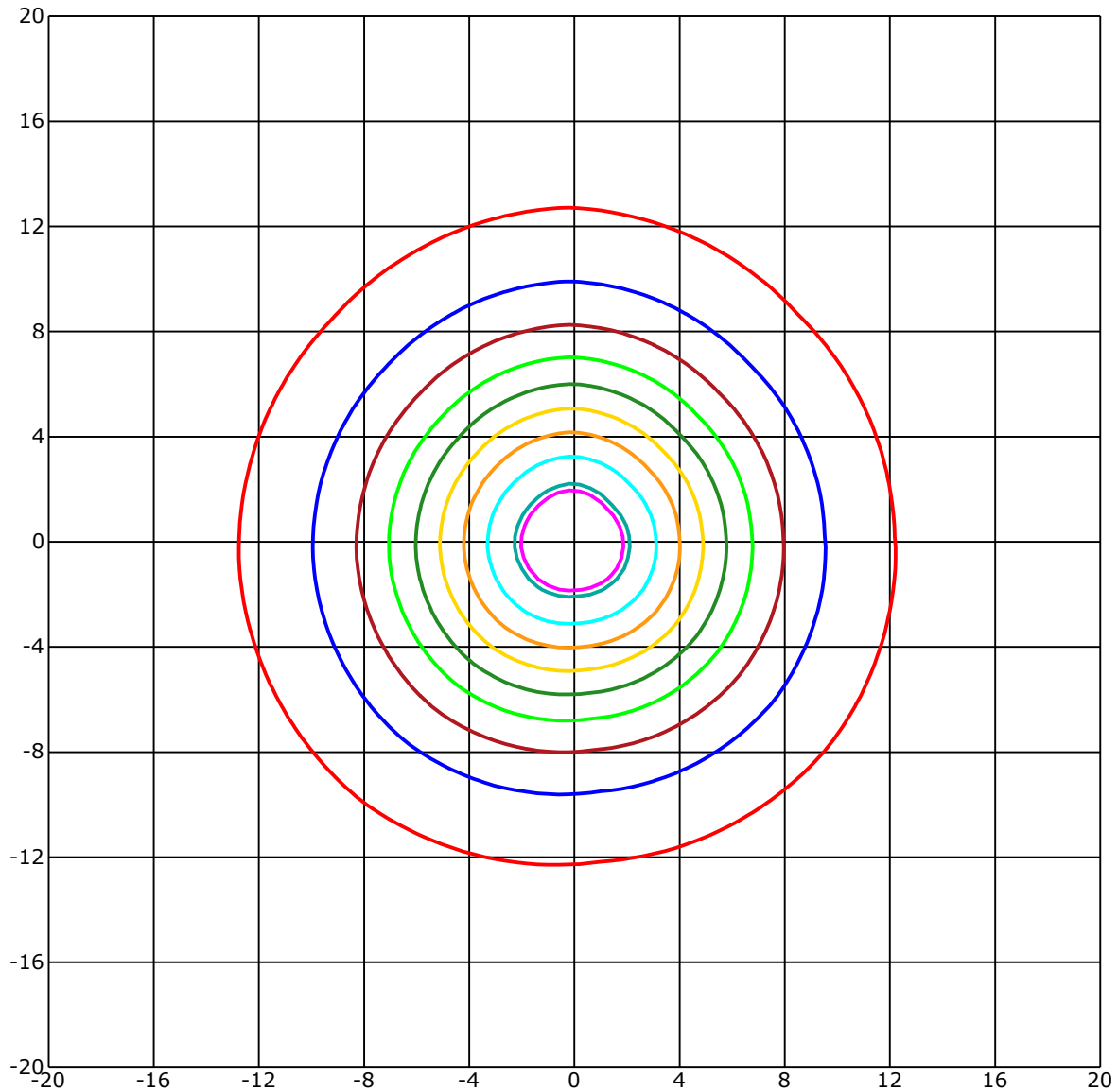
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ISOLX DIAGRAM



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

14.85(92%Emax)	8.071(50%Emax)
14.527(90%Emax)	6.456(40%Emax)
12.913(80%Emax)	4.842(30%Emax)
11.299(70%Emax)	3.228(20%Emax)
9.685(60%Emax)	1.614(10%Emax)

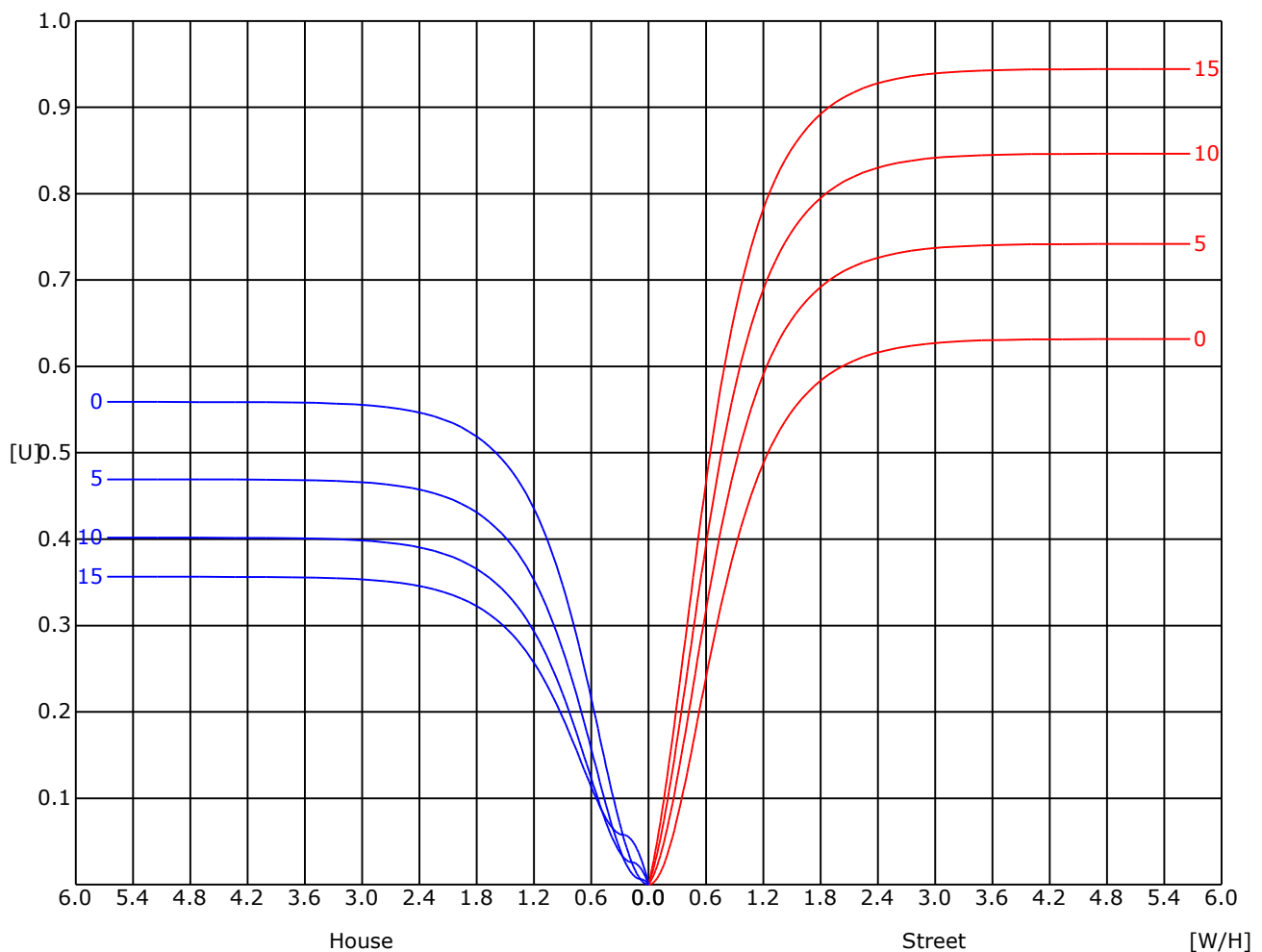
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UTILIZATION FACTOR DIAGRAM (ROAD)



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Humidity: 60
Test Distance: 6.81 m
Remarks:

Height	Ecenter,Emax	Beam angle:93.0 deg (C0_180)	Diameter
4.92ft 1.50m	66.60 , 66.68fc 716.89 , 717.72lx		10.37ft 3.16m
7.38ft 2.25m	29.60 , 29.63fc 318.62 , 318.99lx		15.55ft 4.74m
11.48ft 3.50m	12.23 , 12.25fc 131.67 , 131.83lx		24.19ft 7.37m
13.12ft 4.00m	9.37 , 9.38fc 100.81 , 100.93lx		27.65ft 8.43m
16.40ft 5.00m	5.99 , 6.00fc 64.52 , 64.59lx		34.56ft 10.53m
21.33ft 6.50m	3.55 , 3.55fc 38.18 , 38.22lx		44.93ft 13.69m
22.97ft 7.00m	3.06 , 3.06fc 32.92 , 32.96lx		48.38ft 14.75m
26.25ft 8.00m	2.34 , 2.34fc 25.20 , 25.23lx		55.29ft 16.85m
29.53ft 9.00m	1.85 , 1.85fc 19.91 , 19.94lx		62.20ft 18.96m
32.81ft 10.00m	1.50 , 1.50fc 16.13 , 16.15lx		69.12ft 21.07m

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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	16.87	16.94	17.07	17.13	17.37	17.16	17.23	17.36	17.42	17.66
3H	16.88	16.94	17.09	17.14	17.38	17.15	17.22	17.36	17.41	17.66
4H	16.86	16.92	17.07	17.12	17.36	17.13	17.19	17.34	17.39	17.64
6H	16.83	16.89	17.05	17.09	17.34	17.10	17.16	17.32	17.36	17.61
8H	16.82	16.88	17.03	17.08	17.33	17.09	17.15	17.31	17.35	17.60
12H	16.80	16.86	17.02	17.07	17.32	17.07	17.13	17.29	17.34	17.59
4H 2H	17.30	17.36	17.51	17.56	17.81	17.84	17.90	18.05	18.10	18.35
3H	17.30	17.36	17.52	17.57	17.82	17.82	17.88	18.04	18.08	18.34
4H	17.27	17.33	17.50	17.54	17.80	17.79	17.85	18.02	18.06	18.32
6H	17.24	17.29	17.48	17.51	17.78	17.76	17.81	17.99	18.03	18.29
8H	17.22	17.27	17.47	17.50	17.77	17.74	17.79	17.98	18.02	18.28
12H	17.20	17.25	17.45	17.48	17.75	17.72	17.77	17.97	18.00	18.27
8H 4H	17.26	17.32	17.48	17.52	17.78	17.80	17.86	18.02	18.06	18.32
6H	17.19	17.23	17.44	17.47	17.74	17.71	17.75	17.96	17.99	18.26
8H	17.16	17.21	17.43	17.45	17.73	17.69	17.73	17.95	17.97	18.25
12H	17.14	17.18	17.41	17.44	17.72	17.66	17.70	17.93	17.96	18.24
12H 4H	17.20	17.25	17.45	17.48	17.75	17.73	17.77	17.97	18.01	18.27
6H	17.16	17.21	17.43	17.45	17.73	17.69	17.73	17.95	17.97	18.25

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ZONAL LUMINOUS FLUX TABLE

[illegible]

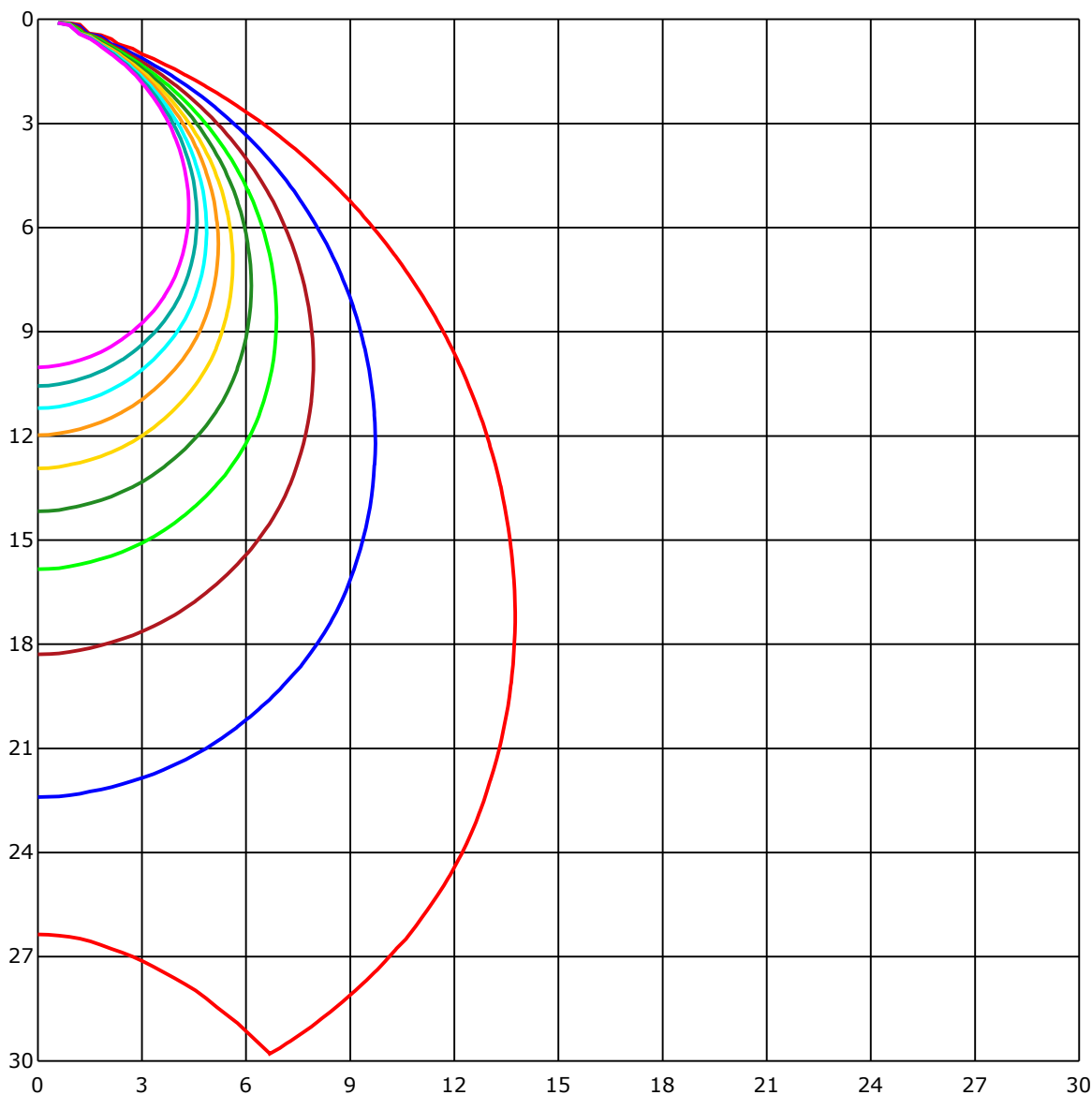
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

16.072	8.036
14.465	6.429
12.858	4.822
11.25	3.214
9.643	1.607

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1613.01	1599.79	1608.0	1610.97	1613.01	1599.79	1608.0	1610.97	1613.01	
G1	1612.4	1599.14	1608.32	1608.51	1614.86	1602.06	1603.22	1609.39	1612.4	
G2	1611.06	1594.18	1603.31	1609.85	1612.45	1600.07	1600.02	1606.65	1611.06	
G3	1606.7	1592.88	1604.47	1608.28	1612.82	1601.69	1601.88	1605.59	1606.7	
G4	1600.39	1588.75	1600.3	1603.27	1609.99	1599.19	1595.85	1601.41	1600.39	
G5	1596.64	1584.67	1598.82	1601.97	1607.58	1598.35	1591.16	1599.84	1596.64	
G6	1589.77	1575.58	1596.31	1599.0	1605.36	1593.07	1584.63	1593.99	1589.77	
G7	1583.33	1572.29	1591.95	1590.56	1601.18	1591.44	1579.57	1588.43	1583.33	
G8	1577.53	1562.78	1585.55	1588.38	1595.29	1585.65	1572.85	1583.33	1577.53	
G9	1571.08	1554.9	1578.55	1578.32	1592.97	1582.63	1565.61	1574.1	1571.08	
G10	1560.23	1549.52	1572.2	1571.13	1584.39	1574.33	1558.65	1567.65	1560.23	
G11	1553.09	1537.18	1569.37	1563.29	1576.23	1567.33	1549.47	1558.05	1553.09	
G12	1542.14	1526.05	1560.28	1555.83	1570.53	1559.91	1538.81	1551.14	1542.14	
G13	1532.5	1516.13	1550.59	1546.32	1561.02	1551.56	1529.39	1540.2	1532.5	
G14	1519.88	1503.65	1539.04	1536.3	1552.44	1541.5	1516.22	1532.03	1519.88	
G15	1507.97	1491.55	1531.06	1525.59	1540.24	1534.17	1505.74	1519.7	1507.97	
G16	1493.96	1478.56	1518.17	1514.09	1534.08	1521.69	1491.78	1506.71	1493.96	
G17	1480.42	1466.04	1507.92	1500.64	1519.79	1510.61	1478.56	1494.19	1480.42	
G18	1466.27	1453.01	1495.72	1489.93	1507.59	1499.8	1464.51	1483.02	1466.27	
G19	1452.08	1436.92	1483.8	1476.24	1494.47	1487.28	1450.6	1465.81	1452.08	
G20	1436.64	1420.45	1470.12	1461.13	1484.22	1473.83	1434.51	1450.88	1436.64	
G21	1419.76	1407.56	1455.0	1445.36	1465.95	1461.27	1419.99	1439.61	1419.76	
G22	1407.1	1389.89	1439.24	1432.05	1454.4	1446.75	1401.39	1422.73	1407.1	
G23	1386.65	1371.9	1425.69	1416.09	1436.73	1432.37	1388.22	1403.99	1386.65	
G24	1368.74	1353.21	1409.51	1398.52	1421.71	1413.36	1366.8	1386.88	1368.74	
G25	1349.96	1335.31	1392.03	1380.01	1405.34	1398.19	1350.24	1369.3	1349.96	
G26	1329.97	1314.86	1373.85	1363.04	1388.32	1380.2	1331.55	1351.63	1329.97	
G27	1308.27	1294.22	1359.14	1344.63	1368.47	1362.85	1310.17	1329.65	1308.27	
G28	1286.15	1272.38	1337.9	1324.22	1353.77	1344.72	1285.78	1310.96	1286.15	
G29	1261.57	1247.47	1317.78	1302.01	1332.66	1327.75	1265.93	1285.59	1261.57	
G30	1235.69	1221.83	1297.74	1277.94	1308.78	1304.37	1236.94	1263.7	1235.69	
G31	1209.63	1197.57	1276.09	1255.03	1285.64	1281.88	1212.32	1237.31	1209.63	
G32	1184.49	1171.0	1250.58	1230.36	1262.64	1258.09	1186.16	1212.6	1184.49	
G33	1157.18	1144.42	1225.3	1204.16	1236.48	1235.74	1160.84	1187.92	1157.18	
G34	1130.6	1117.62	1200.21	1178.23	1211.25	1208.1	1133.02	1162.28	1130.6	
G35	1102.87	1092.11	1175.08	1151.66	1186.25	1182.17	1105.56	1134.92	1102.87	
G36	1074.44	1061.69	1147.67	1128.47	1161.49	1155.79	1078.57	1107.97	1074.44	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1044.85	1035.39	1121.61	1097.21	1133.76	1131.21	1051.63	1077.78	1044.85	
G38	1017.31	1004.37	1092.53	1069.67	1106.21	1101.43	1020.55	1050.14	1017.31	
G39	987.49	976.82	1067.07	1040.17	1076.67	1075.6	991.75	1020.18	987.49	
G40	957.39	945.7	1038.08	1011.6	1051.02	1047.13	962.26	992.49	957.39	
G41	926.78	917.69	1007.71	980.25	1021.06	1018.28	933.32	963.7	926.78	
G42	895.57	885.97	979.79	950.11	991.52	987.53	901.09	933.27	895.57	
G43	864.73	856.15	949.97	920.01	960.22	958.36	871.78	902.71	864.73	
G44	834.63	825.03	920.1	891.07	932.72	928.17	839.55	872.06	834.63	
G45	804.25	794.98	888.66	859.77	901.6	898.82	810.05	841.45	804.25	
G46	771.84	764.51	858.61	828.56	870.71	868.21	777.59	811.54	771.84	
G47	741.51	733.99	828.42	799.25	839.36	838.48	748.14	779.07	741.51	
G48	710.48	702.74	796.46	768.54	810.28	806.9	715.44	748.88	710.48	
G49	678.02	671.39	766.78	736.36	777.59	776.24	684.84	716.42	678.02	
G50	647.74	639.57	734.6	704.31	747.07	744.61	653.02	685.86	647.74	
G51	616.11	609.01	704.31	675.19	716.6	713.4	622.14	654.37	616.11	
G52	585.17	578.73	674.77	642.68	686.0	682.98	590.0	623.9	585.17	
G53	553.22	547.24	641.94	610.45	653.95	651.91	559.39	592.45	553.22	
G54	521.45	516.82	609.89	579.65	621.9	620.56	526.88	561.94	521.45	
G55	489.96	486.44	579.24	548.26	590.55	589.3	494.93	529.29	489.96	
G56	460.47	455.6	548.44	518.3	558.74	557.35	464.6	498.08	460.47	
G57	429.21	425.83	516.91	487.0	527.99	526.55	435.1	467.52	429.21	
G58	399.07	395.77	486.67	456.57	498.08	494.97	404.63	436.68	399.07	
G59	368.69	367.44	456.2	426.38	466.13	464.22	374.16	405.84	368.69	
G60	339.8	337.43	425.59	397.26	436.63	433.85	344.67	375.6	339.8	
G61	309.98	308.86	397.03	365.95	405.47	403.75	316.24	346.06	309.98	
G62	280.67	280.25	366.09	336.6	375.51	373.42	286.98	316.7	280.67	
G63	252.84	252.29	337.25	307.66	345.36	344.16	259.52	287.72	252.84	
G64	225.02	224.55	309.28	278.81	316.66	314.57	231.37	259.61	225.02	
G65	197.93	197.28	279.83	250.2	287.02	286.14	204.66	231.32	197.93	
G66	171.73	170.8	250.99	222.93	257.85	257.8	178.18	204.43	171.73	
G67	145.95	145.67	224.0	195.8	229.84	230.21	151.93	177.99	145.95	
G68	121.92	121.41	196.59	170.52	203.08	202.9	127.77	151.79	121.92	
G69	99.38	99.2	170.01	145.3	176.09	176.46	104.9	127.16	99.38	
G70	78.1	77.68	144.69	121.32	151.09	151.51	82.87	104.25	78.1	
G71	58.11	58.25	120.25	98.83	126.56	126.84	62.65	82.13	58.11	
G72	40.16	39.98	96.97	77.59	103.33	103.51	44.24	62.14	40.16	
G73	24.81	24.9	76.2	57.92	81.9	81.99	28.34	43.96	24.81	

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