

Report No.:

Test Time: 2024/10/16 15:11:41

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H69-60°-10W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 63 mm

Voltage(V): 219.90 V
Current(A): 0.0530 A
Power(W): 10.79 W
Power Factor: 0.9170
Lamp Luminous Flux: 1098.80

Photometric Results

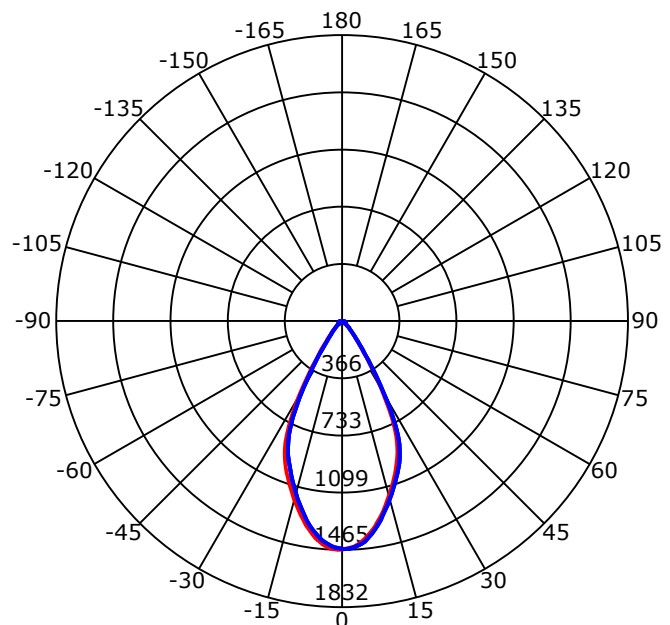
CIE Class: Direct
Luminaire Luminous Flux: 1098.798 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.83 lm/W
Beam Angle(50%) C0-180,C90-270: 53.9,53.8
Field Angle(10%) C0-180,C90-270: 77.2,76.4
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 1465.35 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1462.38 cd
Effective Luminous Flux: 979.41 lm
ERP(ϕ use)(120deg): 1068.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 53.9 deg,53.8 deg

C0-180 — C90-270

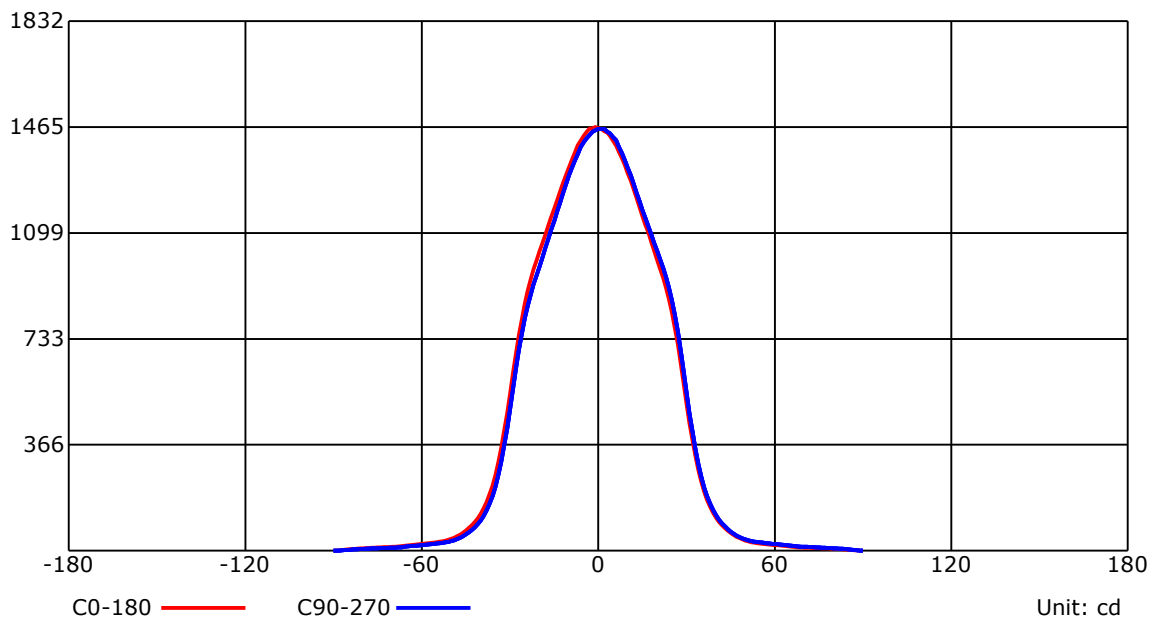
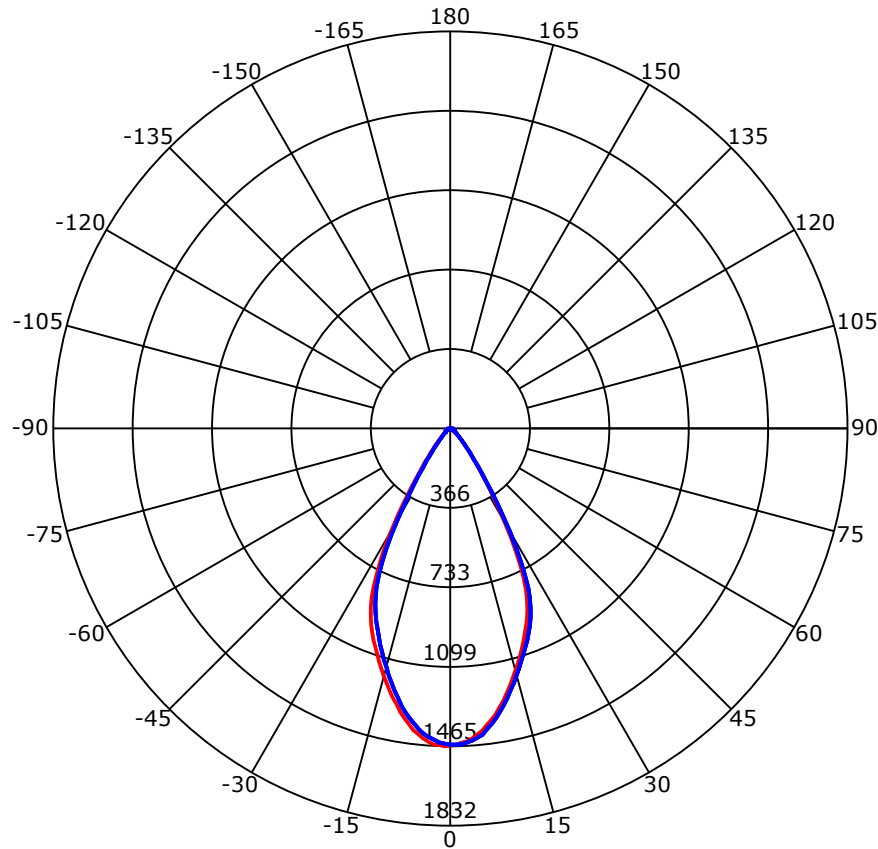
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/16 15:11:41

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



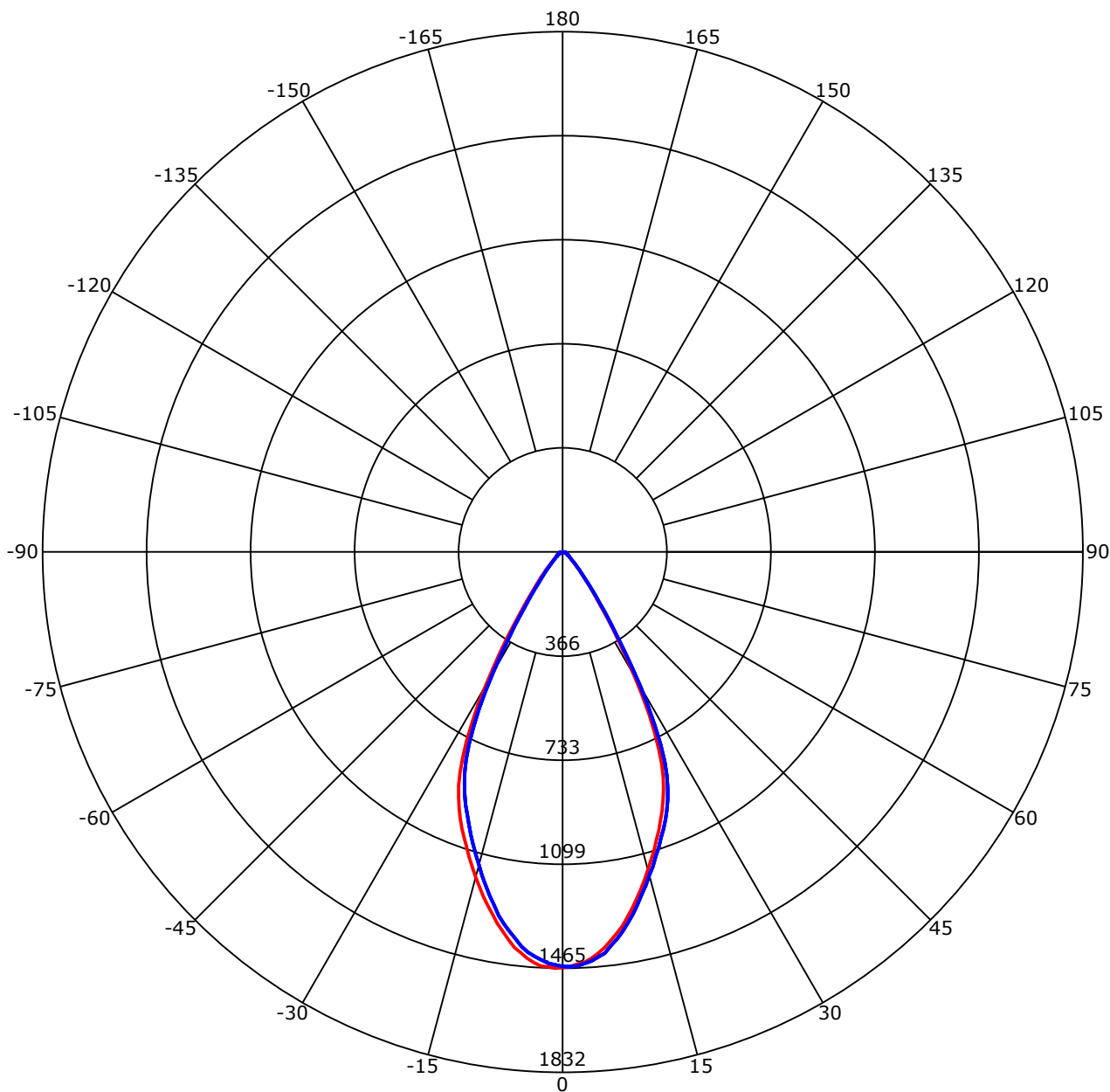
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

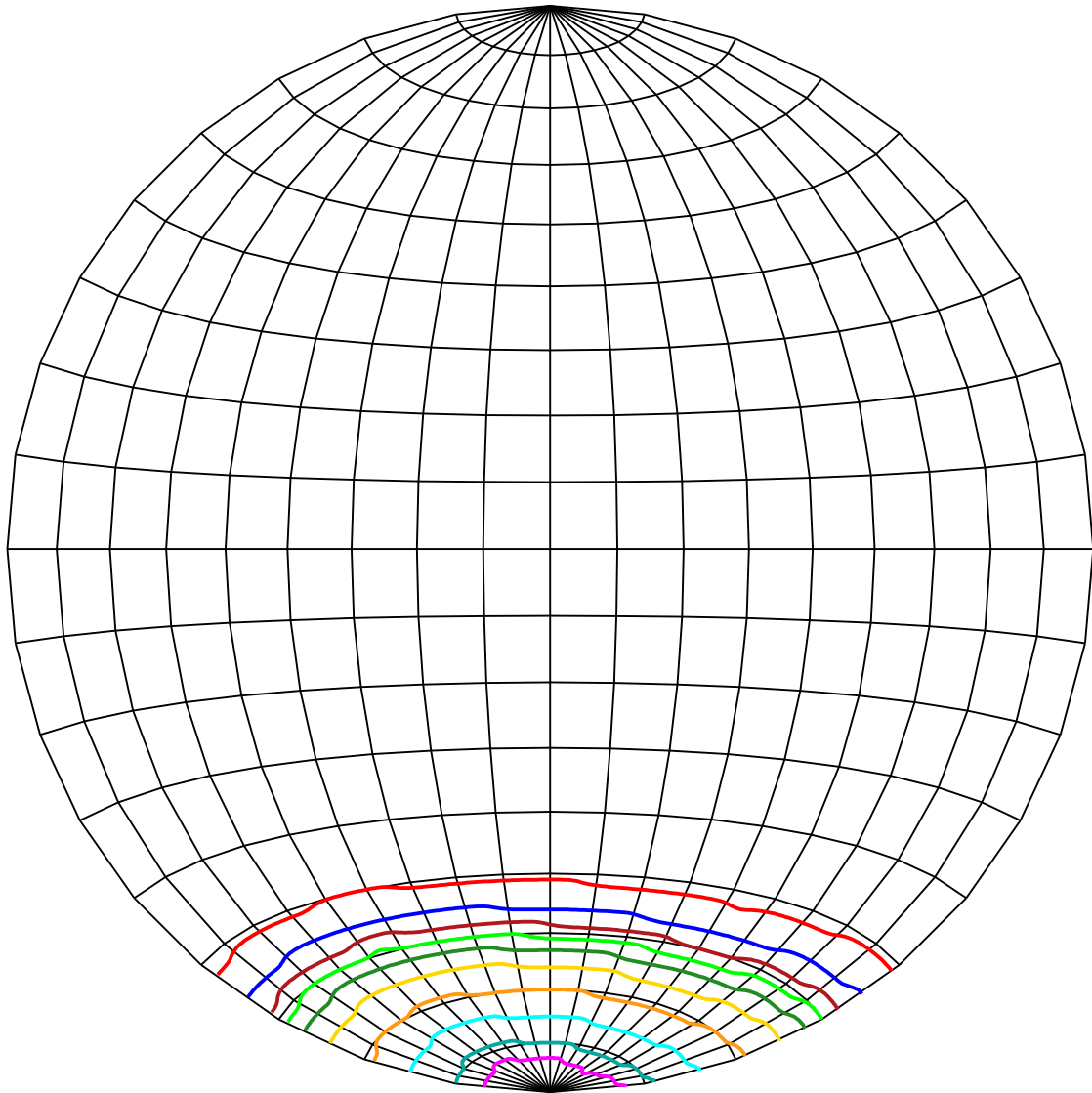
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1465.346 cd

1392.078(95%I _{max})	732.673(50%I _{max})
1318.811(90%I _{max})	586.138(40%I _{max})
1172.276(80%I _{max})	439.604(30%I _{max})
1025.742(70%I _{max})	293.069(20%I _{max})
879.207(60%I _{max})	146.535(10%I _{max})

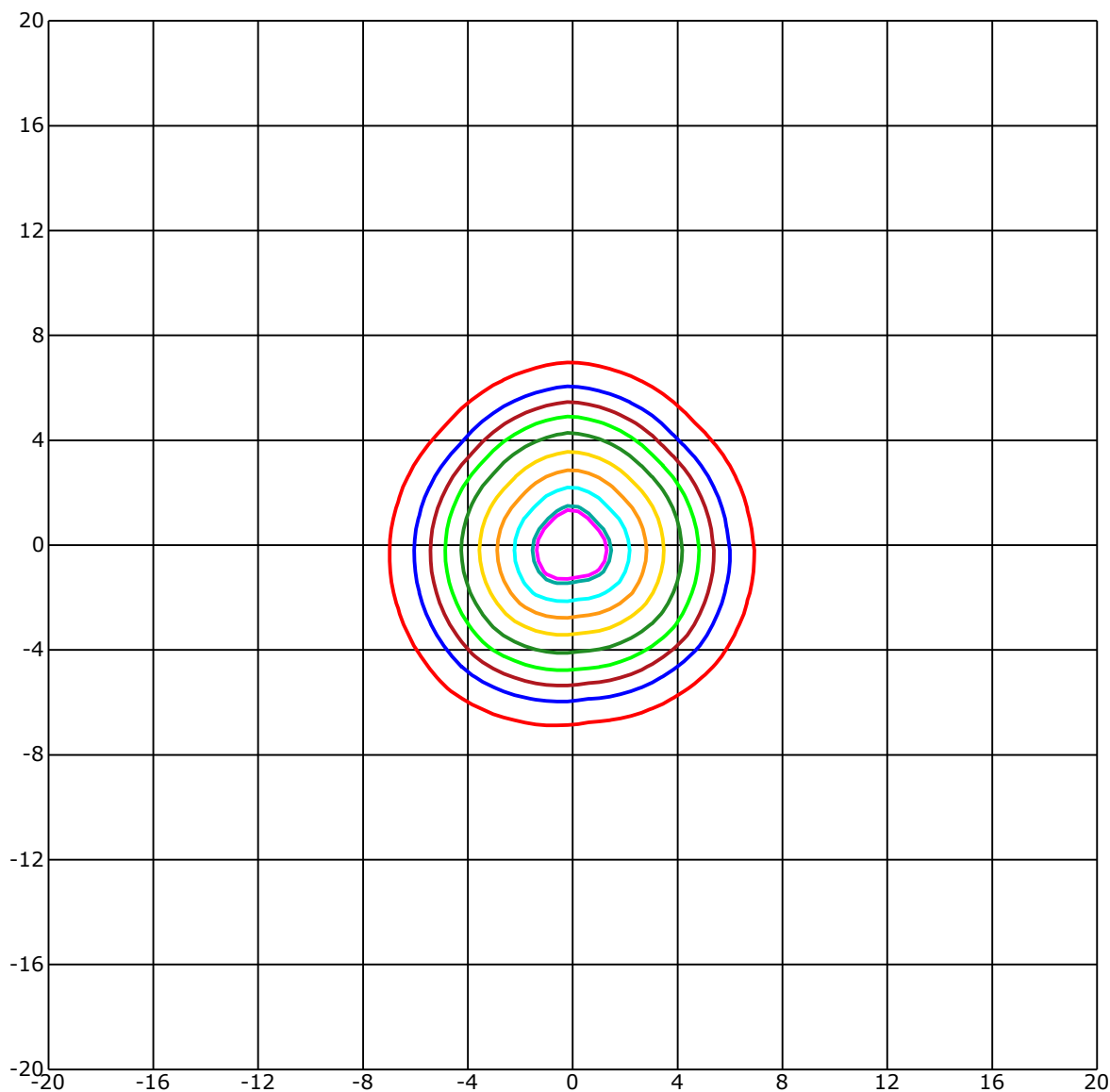
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ISOLX DIAGRAM



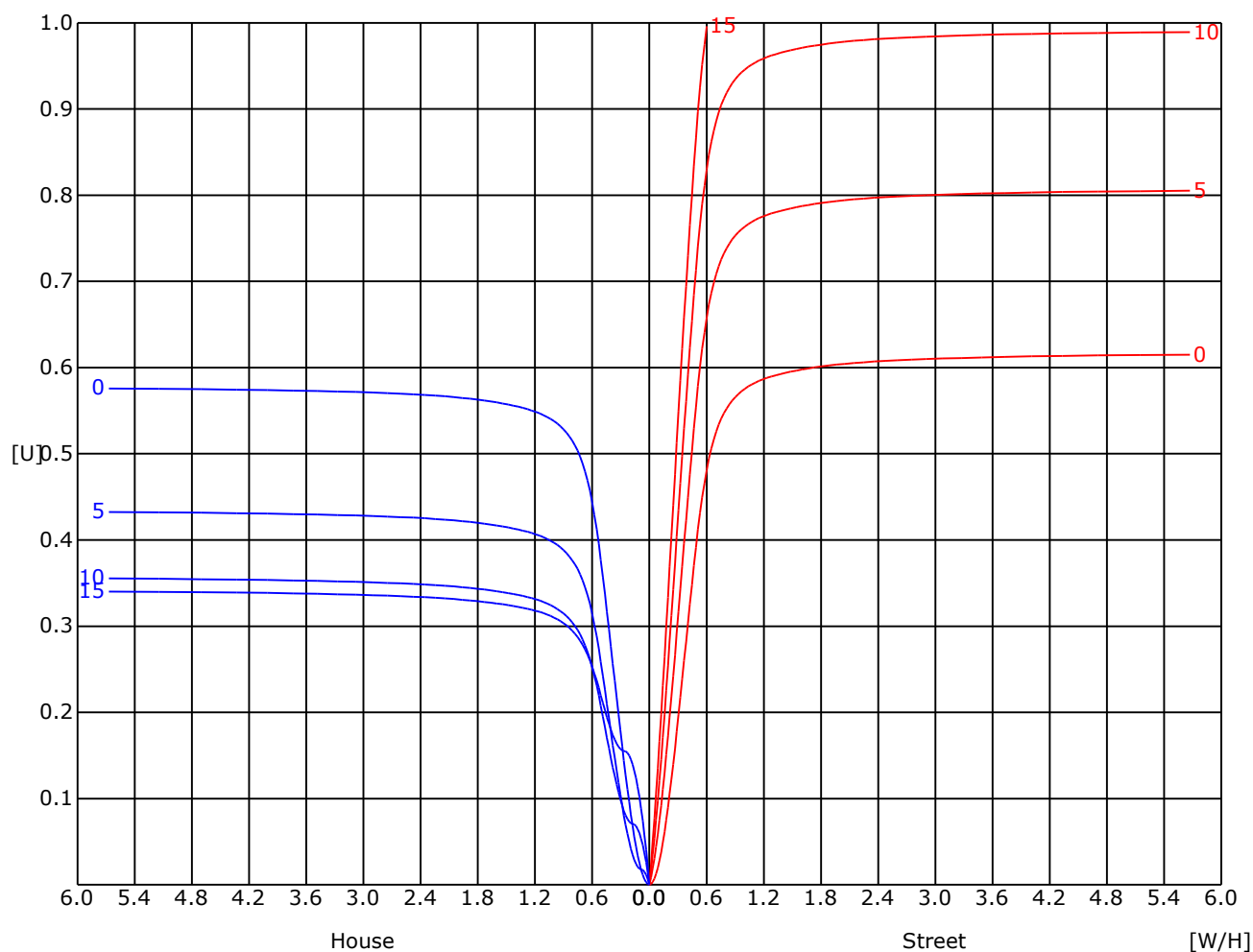
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UTILIZATION FACTOR DIAGRAM (ROAD)



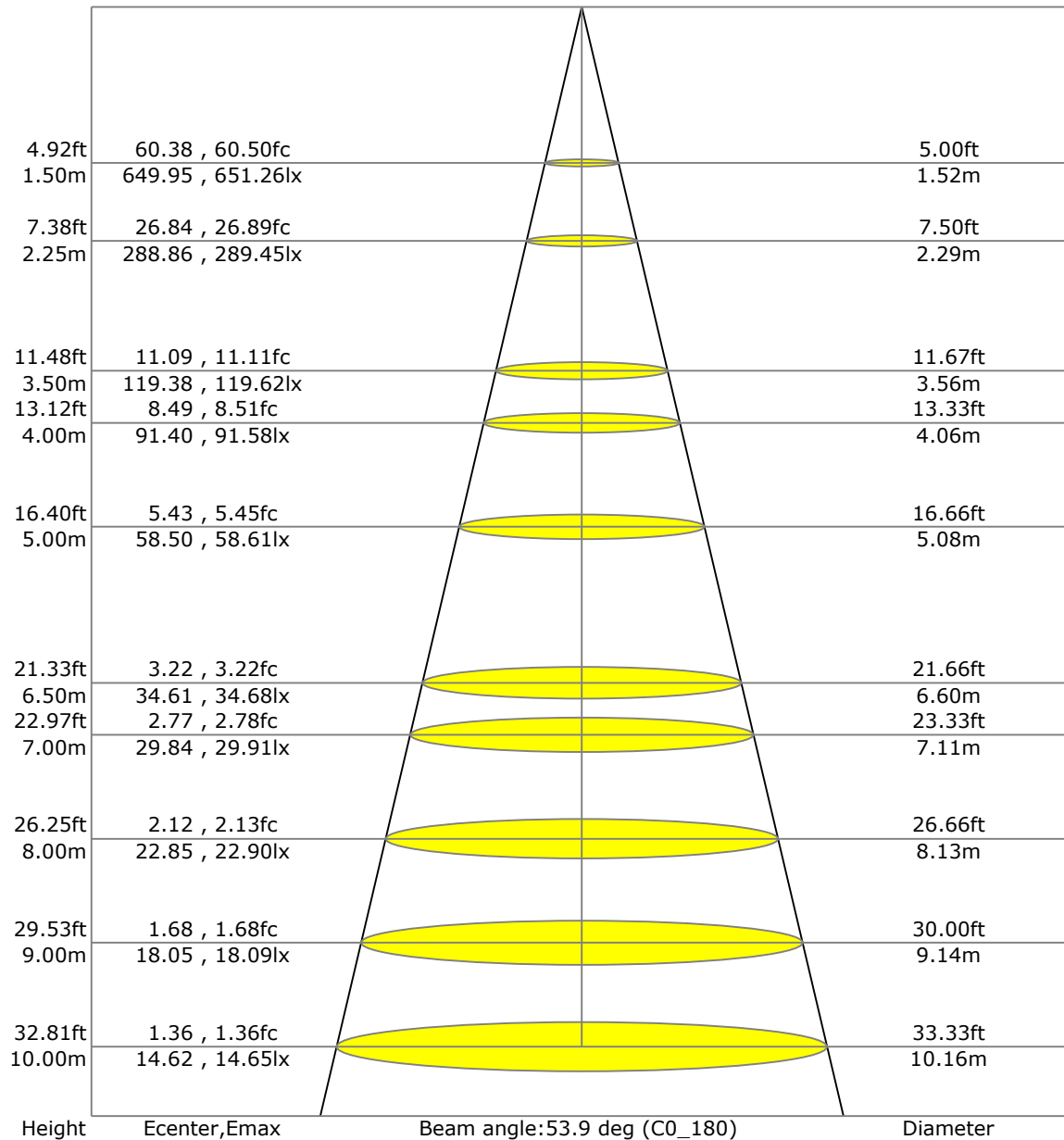
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
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LX-DISTANCE DIAGRAM



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

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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	12.84	12.89	13.04	13.08	13.32	12.94	12.99	13.14	13.17	13.42
3H	12.86	12.92	13.07	13.11	13.36	12.95	13.00	13.16	13.20	13.44
4H	12.86	12.92	13.07	13.11	13.36	12.95	13.00	13.16	13.20	13.44
6H	12.85	12.90	13.07	13.10	13.36	12.93	12.99	13.15	13.19	13.44
8H	12.84	12.89	13.06	13.10	13.35	12.92	12.98	13.14	13.18	13.43
12H	12.83	12.88	13.05	13.09	13.34	12.91	12.97	13.14	13.17	13.43
4H 2H	13.51	13.57	13.72	13.76	14.01	13.78	13.83	13.99	14.03	14.28
3H	13.64	13.69	13.86	13.90	14.15	13.90	13.95	14.12	14.16	14.41
4H	13.68	13.73	13.91	13.94	14.20	13.93	13.98	14.16	14.19	14.45
6H	13.69	13.74	13.93	13.96	14.22	13.93	13.98	14.17	14.20	14.46
8H	13.68	13.73	13.93	13.96	14.22	13.92	13.97	14.17	14.20	14.46
12H	13.67	13.72	13.92	13.95	14.22	13.91	13.96	14.16	14.19	14.46
8H 4H	13.83	13.88	14.04	14.08	14.33	14.22	14.28	14.44	14.48	14.73
6H	14.19	14.24	14.45	14.48	14.75	14.60	14.64	14.85	14.88	15.15
8H	14.20	14.25	14.47	14.49	14.77	14.60	14.64	14.86	14.89	15.16
12H	14.20	14.24	14.47	14.50	14.78	14.59	14.63	14.86	14.89	15.17
12H 4H	14.26	14.30	14.51	14.54	14.80	14.75	14.80	15.00	15.03	15.30
6H	14.33	14.38	14.60	14.62	14.90	14.83	14.87	15.09	15.11	15.39

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ZONAL LUMINOUS FLUX TABLE

[illegible]

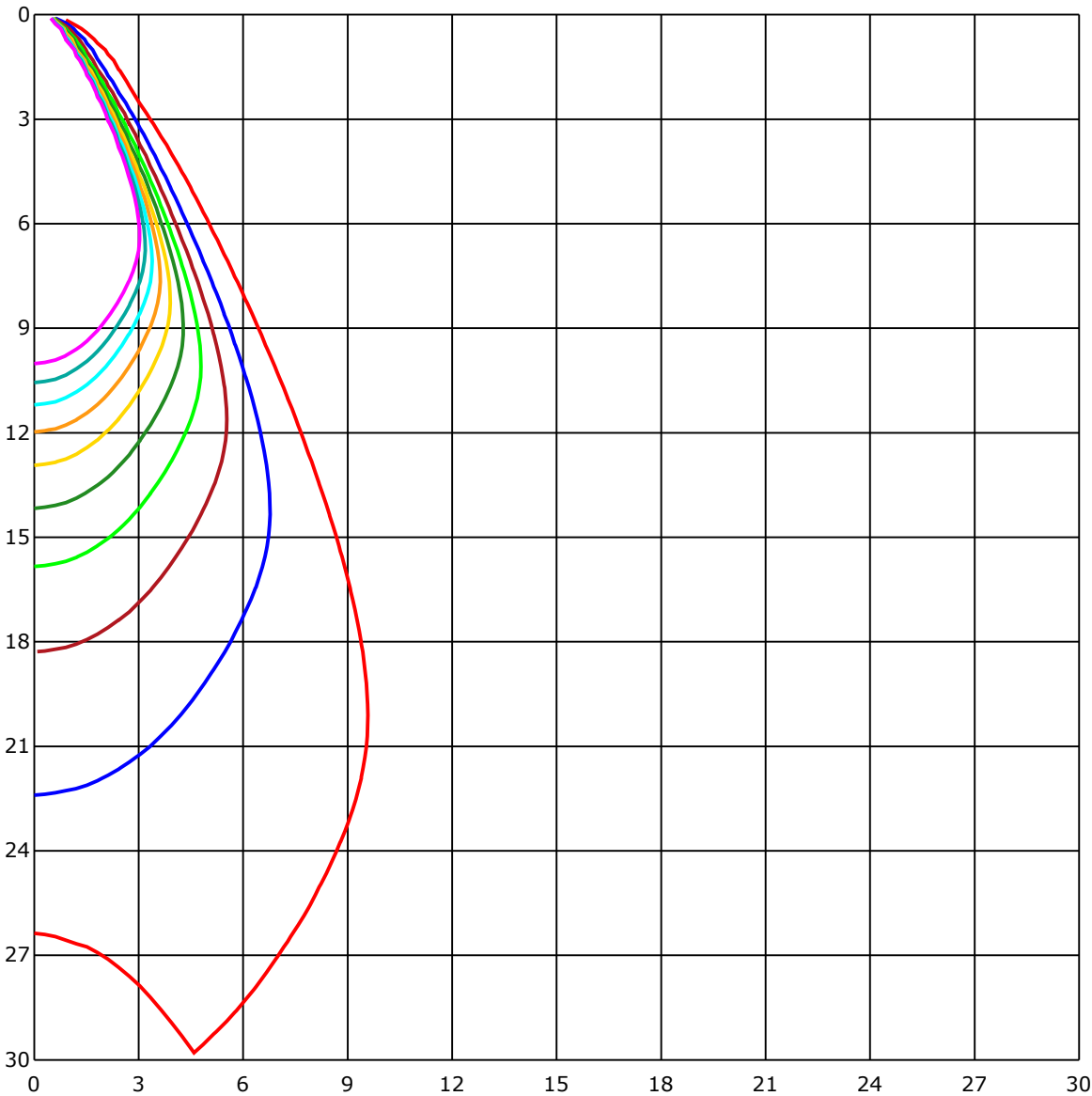
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|--------|-------|
| 14.574 | 7.287 |
| 13.116 | 5.83 |
| 11.659 | 4.372 |
| 10.202 | 2.915 |
| 8.744 | 1.457 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1462.38	1451.16	1458.62	1462.1	1462.38	1451.16	1458.62	1462.1	1462.38	
G1	1459.18	1440.81	1459.18	1457.04	1465.35	1455.7	1454.03	1461.4	1459.18	
G2	1451.2	1434.0	1458.3	1451.02	1461.45	1453.66	1448.88	1459.92	1451.2	
G3	1446.24	1423.38	1450.04	1441.37	1459.73	1453.24	1437.61	1452.78	1446.24	
G4	1434.27	1409.14	1443.13	1430.47	1448.74	1448.74	1426.76	1447.49	1434.27	
G5	1418.69	1389.24	1431.63	1412.8	1435.53	1442.11	1413.82	1436.87	1418.69	
G6	1400.98	1368.05	1419.8	1392.26	1417.53	1433.76	1395.46	1420.55	1400.98	
G7	1379.32	1346.02	1395.55	1369.21	1402.09	1418.18	1371.62	1398.1	1379.32	
G8	1357.66	1321.16	1375.47	1343.15	1376.95	1400.61	1348.62	1379.23	1357.66	
G9	1334.47	1296.95	1351.68	1315.5	1352.23	1382.19	1324.92	1356.32	1334.47	
G10	1305.95	1268.57	1325.24	1291.81	1327.42	1359.38	1299.27	1337.07	1305.95	
G11	1279.56	1239.82	1297.88	1261.52	1298.35	1332.57	1266.07	1307.44	1279.56	
G12	1249.79	1209.77	1268.39	1231.33	1271.17	1306.09	1235.88	1283.88	1249.79	
G13	1220.02	1180.6	1237.18	1195.76	1242.97	1280.4	1204.39	1250.62	1220.02	
G14	1188.43	1151.52	1209.21	1167.94	1212.5	1251.32	1174.15	1222.34	1188.43	
G15	1157.92	1121.33	1178.97	1135.57	1184.31	1221.55	1140.71	1189.55	1157.92	
G16	1128.15	1094.06	1151.47	1105.19	1153.79	1185.1	1109.87	1161.17	1128.15	
G17	1099.49	1065.63	1120.49	1075.04	1124.85	1155.92	1077.36	1130.37	1099.49	
G18	1066.7	1034.23	1093.27	1049.49	1093.55	1124.67	1047.59	1101.2	1066.7	
G19	1037.25	1004.41	1063.87	1017.4	1064.47	1093.97	1015.03	1068.46	1037.25	
G20	1005.39	971.35	1037.53	988.27	1036.55	1058.77	983.22	1036.32	1005.39	
G21	976.17	935.04	1008.63	954.61	1006.04	1031.03	953.26	1005.16	976.17	
G22	943.38	896.36	978.49	922.56	973.81	998.71	922.1	976.5	943.38	
G23	908.55	855.18	945.7	887.41	938.37	966.76	885.27	942.5	908.55	
G24	869.74	809.22	909.53	844.28	900.48	931.46	847.15	909.99	869.74	
G25	825.82	749.25	867.93	790.16	856.75	897.1	805.0	873.96	825.82	
G26	772.35	684.6	818.72	727.97	803.65	856.94	753.66	834.03	772.35	
G27	713.17	618.29	757.55	660.16	744.66	812.14	693.37	781.07	713.17	
G28	646.02	549.0	691.84	590.0	680.99	755.98	629.65	722.4	646.02	
G29	577.71	480.55	620.93	516.68	615.5	697.45	561.01	659.65	577.71	
G30	507.77	415.9	547.52	447.3	544.64	630.2	491.91	590.88	507.77	
G31	440.53	357.84	475.12	384.83	477.16	562.03	423.51	521.13	440.53	
G32	378.66	306.82	410.38	328.11	414.65	492.61	362.06	453.47	378.66	
G33	325.98	263.97	350.09	279.09	356.31	428.98	307.47	389.28	325.98	
G34	278.4	227.29	299.73	238.23	305.53	370.41	261.75	333.72	278.4	
G35	238.05	195.24	255.95	202.43	262.16	318.51	221.12	283.03	238.05	
G36	204.19	167.74	218.99	173.21	225.57	272.51	188.33	240.04	204.19	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	175.63	145.11	188.33	148.54	193.81	233.78	161.2	204.57	175.63	
G38	151.19	125.91	162.36	128.65	167.46	200.44	138.76	176.28	151.19	
G39	131.06	110.05	140.94	111.95	146.41	172.98	119.7	152.35	131.06	
G40	113.95	96.32	123.41	98.18	127.95	150.54	104.9	132.73	113.95	
G41	100.5	84.96	107.92	85.61	112.6	131.43	92.06	116.64	100.5	
G42	88.35	74.39	95.07	74.8	99.43	115.8	81.2	102.77	88.35	
G43	77.87	65.71	84.22	65.85	88.25	102.17	71.56	90.85	77.87	
G44	68.78	58.25	74.53	58.06	78.38	91.13	63.44	80.56	68.78	
G45	61.26	51.57	66.18	51.15	69.98	81.34	56.3	71.6	61.26	
G46	54.31	45.63	59.04	44.85	62.47	72.9	50.41	63.91	54.31	
G47	48.0	40.72	52.68	40.02	55.84	65.2	44.47	57.32	48.0	
G48	43.08	36.54	47.07	35.94	50.27	58.48	40.02	51.29	43.08	
G49	38.58	33.07	42.57	32.6	44.8	52.78	35.99	46.05	38.58	
G50	34.78	30.33	38.91	30.19	40.76	47.26	33.16	42.11	34.78	
G51	32.09	28.2	35.94	28.1	37.84	42.71	30.61	38.96	32.09	
G52	29.45	26.25	33.62	26.53	34.92	39.19	28.75	36.31	29.45	
G53	27.45	24.86	31.77	25.09	32.6	36.41	26.99	33.99	27.45	
G54	26.25	23.7	30.33	23.88	30.93	33.81	25.69	32.14	26.25	
G55	24.72	22.63	28.66	22.63	29.36	31.81	24.44	30.7	24.72	
G56	23.51	21.7	27.45	21.7	27.92	30.24	23.28	29.4	23.51	
G57	22.68	20.68	26.25	20.92	26.81	28.8	22.21	27.96	22.68	
G58	21.52	19.76	25.27	19.99	25.55	27.45	21.43	26.85	21.52	
G59	20.54	18.88	24.02	19.11	24.58	26.3	20.31	25.69	20.54	
G60	19.66	18.04	23.0	18.18	23.28	25.09	19.39	24.39	19.66	
G61	18.88	17.11	21.98	17.34	22.17	23.93	18.36	23.37	18.88	
G62	17.76	16.42	21.1	16.51	21.05	22.82	17.44	22.4	17.76	
G63	16.97	15.49	20.27	15.54	20.13	21.7	16.56	21.24	16.97	
G64	16.09	14.52	19.29	14.65	18.97	20.5	15.63	20.17	16.09	
G65	15.07	13.45	18.13	13.73	18.04	19.57	14.52	18.97	15.07	
G66	13.87	12.15	17.11	12.66	16.7	18.32	13.26	18.18	13.87	
G67	12.48	11.32	15.81	11.41	15.26	17.3	11.92	16.51	12.48	
G68	11.41	10.9	14.56	10.94	14.19	15.72	11.04	15.07	11.41	
G69	11.18	10.43	13.91	10.53	13.5	14.56	10.62	14.1	11.18	
G70	10.67	10.06	13.5	10.39	13.17	13.87	10.43	13.63	10.67	
G71	10.43	9.74	13.17	9.92	12.75	13.36	9.92	13.12	10.43	
G72	9.92	9.28	12.66	9.6	12.38	12.99	9.6	12.8	9.92	
G73	9.65	8.9	12.15	9.18	11.97	12.61	9.23	12.24	9.65	

C Range: 0 - 360 Deg

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