

Report No.:

Test Time: 2024/10/15 17:04:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP155CT085H95-60°-8W
Lamp Type:
Luminous Width: 65 mm
Luminous Length: 65 mm
Luminous Height: 70 mm

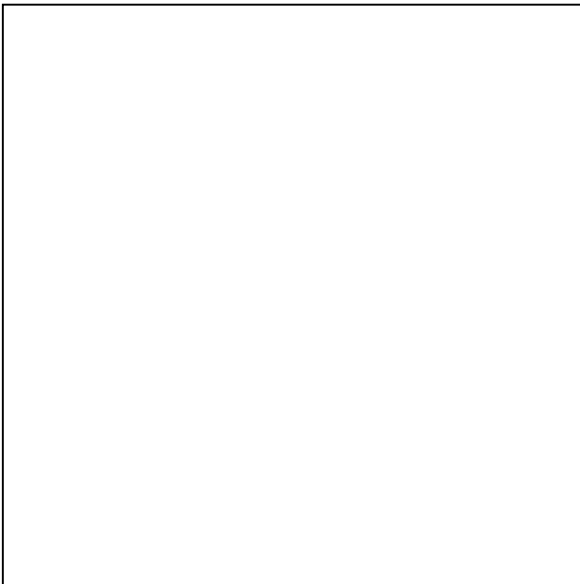
Voltage(V): 219.90 V
Current(A): 0.0380 A
Power(W): 7.90 W
Power Factor: 0.9320
Lamp Luminous Flux: 661.32

Photometric Results

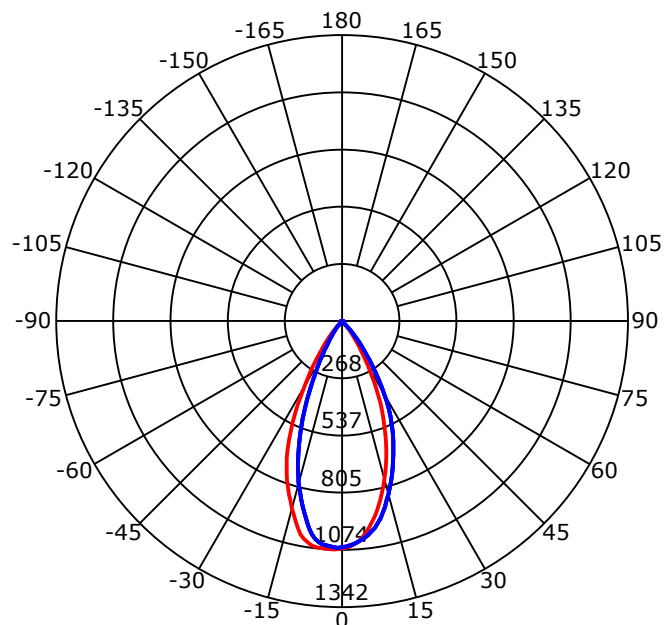
CIE Class: Direct
Luminaire Luminous Flux: 661.3182 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.71 lm/W
Beam Angle(50%) C0-180,C90-270: 47.7,47.0
Field Angle(10%) C0-180,C90-270: 73.5,73.4
S/MH C0-180,C90-270: 0.768,0.728

Max. Intensity: 1073.79 cd
Max.Intensity Angle: C=225 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1066.60 cd
Effective Luminous Flux: 621.61 lm
ERP(φuse)(120deg): 656.23 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.7 deg,47.0 deg

C0-180 — C90-270 —

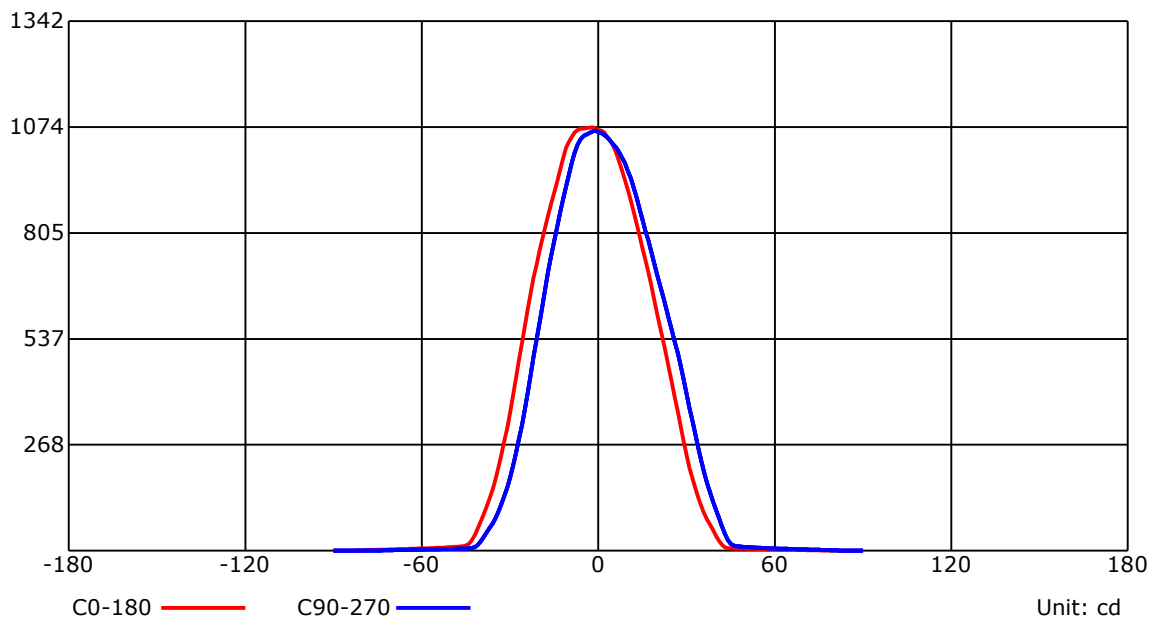
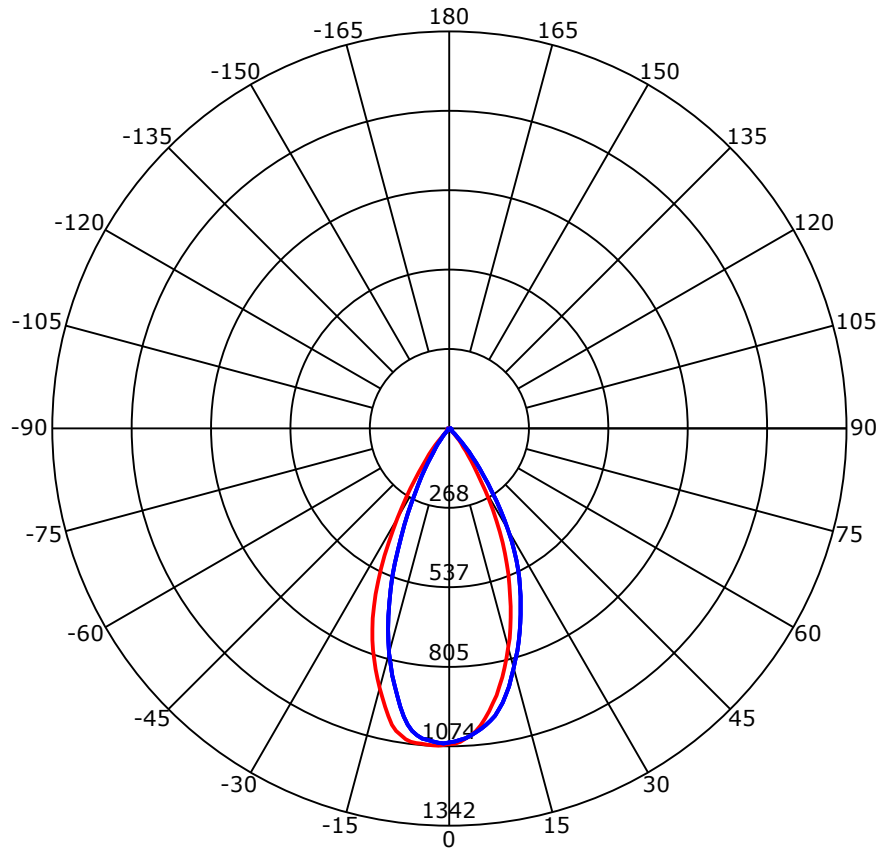
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/15 17:04:59

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



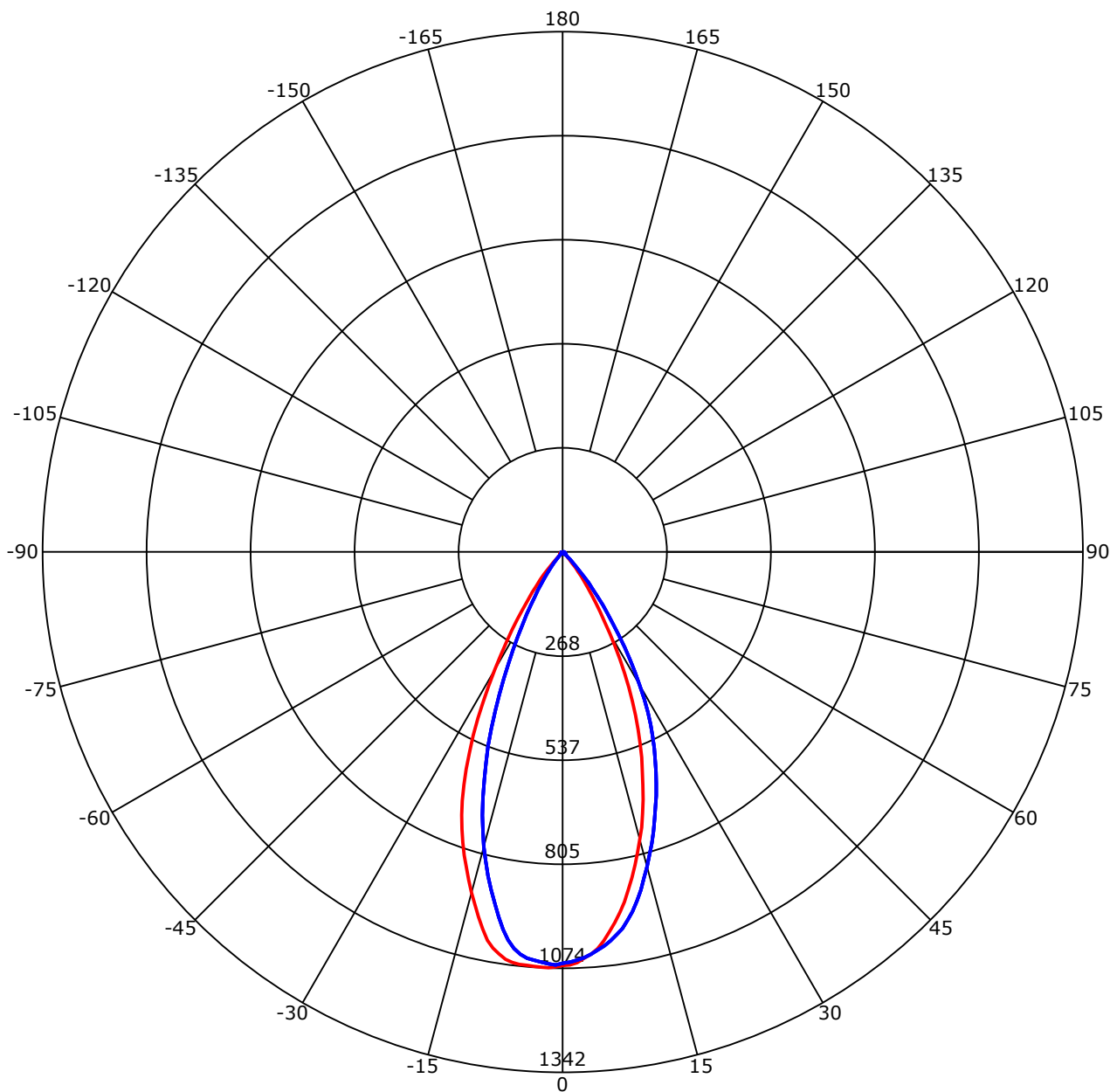
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

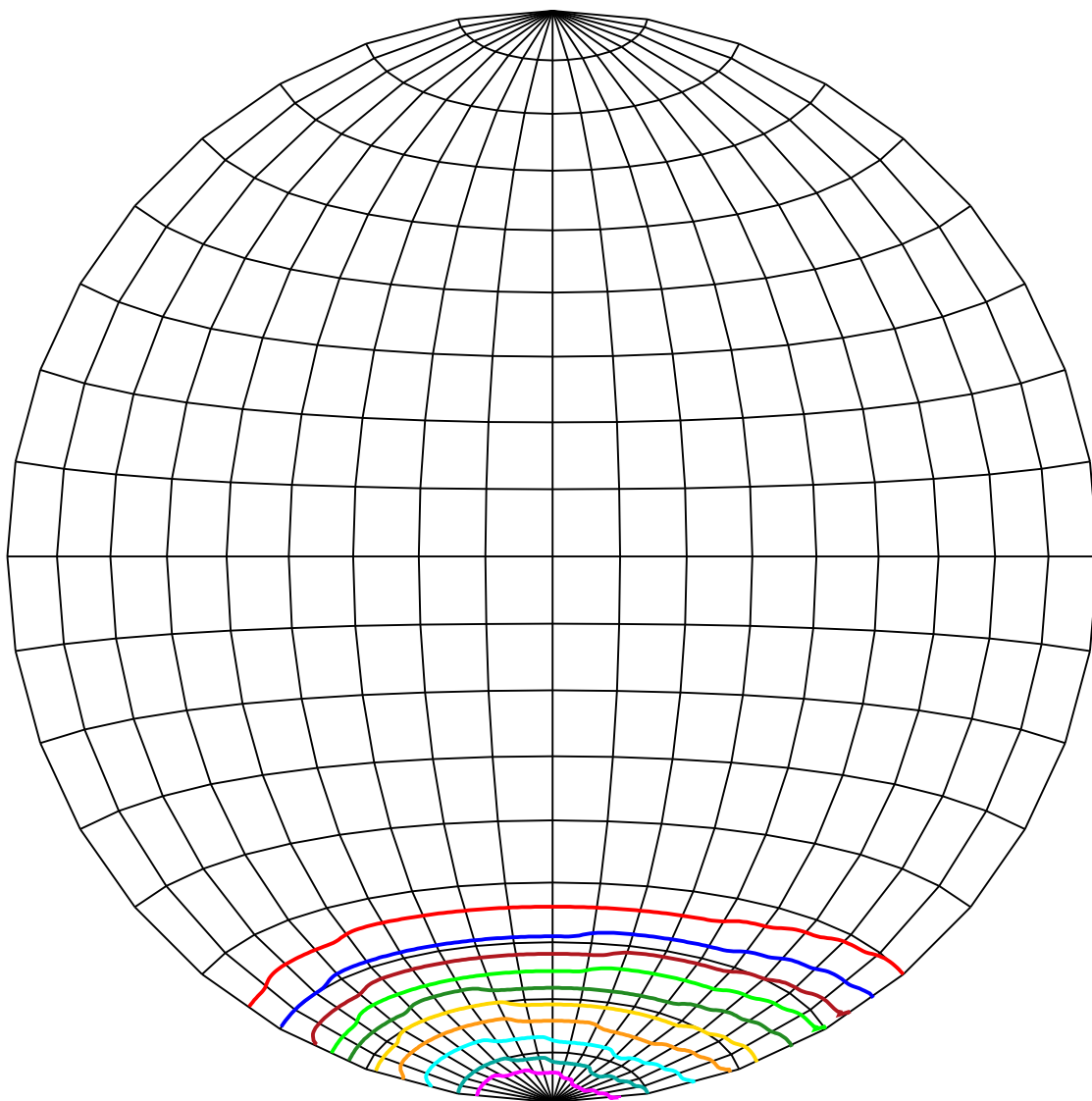
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1073.792 cd

1020.102(95%I _{max})	536.896(50%I _{max})
966.413(90%I _{max})	429.517(40%I _{max})
859.034(80%I _{max})	322.138(30%I _{max})
751.655(70%I _{max})	214.758(20%I _{max})
644.275(60%I _{max})	107.379(10%I _{max})

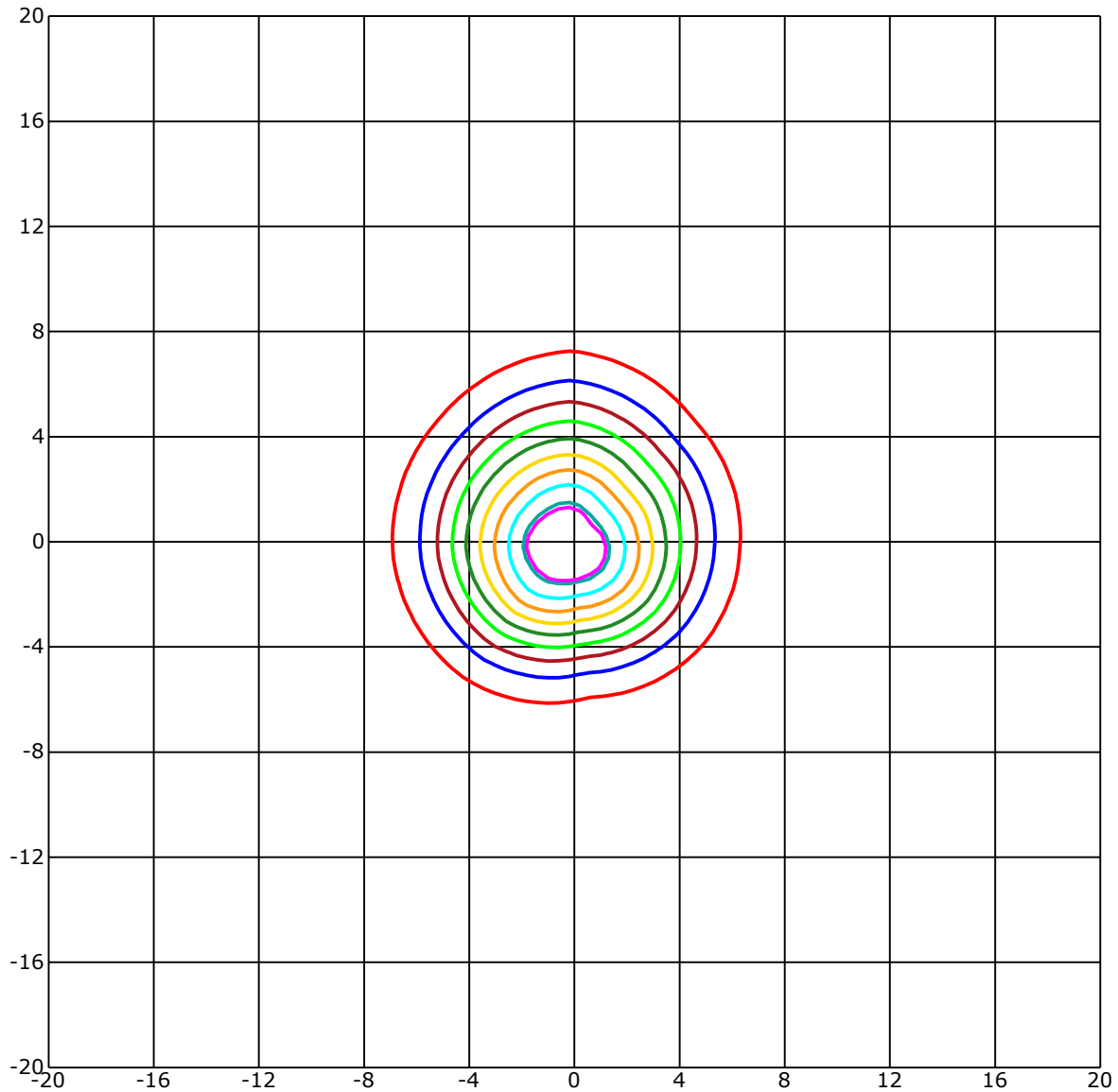
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ISOLX DIAGRAM



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

9.851(92%Emax)	5.354(50%Emax)
9.637(90%Emax)	4.283(40%Emax)
8.566(80%Emax)	3.212(30%Emax)
7.495(70%Emax)	2.142(20%Emax)
6.425(60%Emax)	1.071(10%Emax)

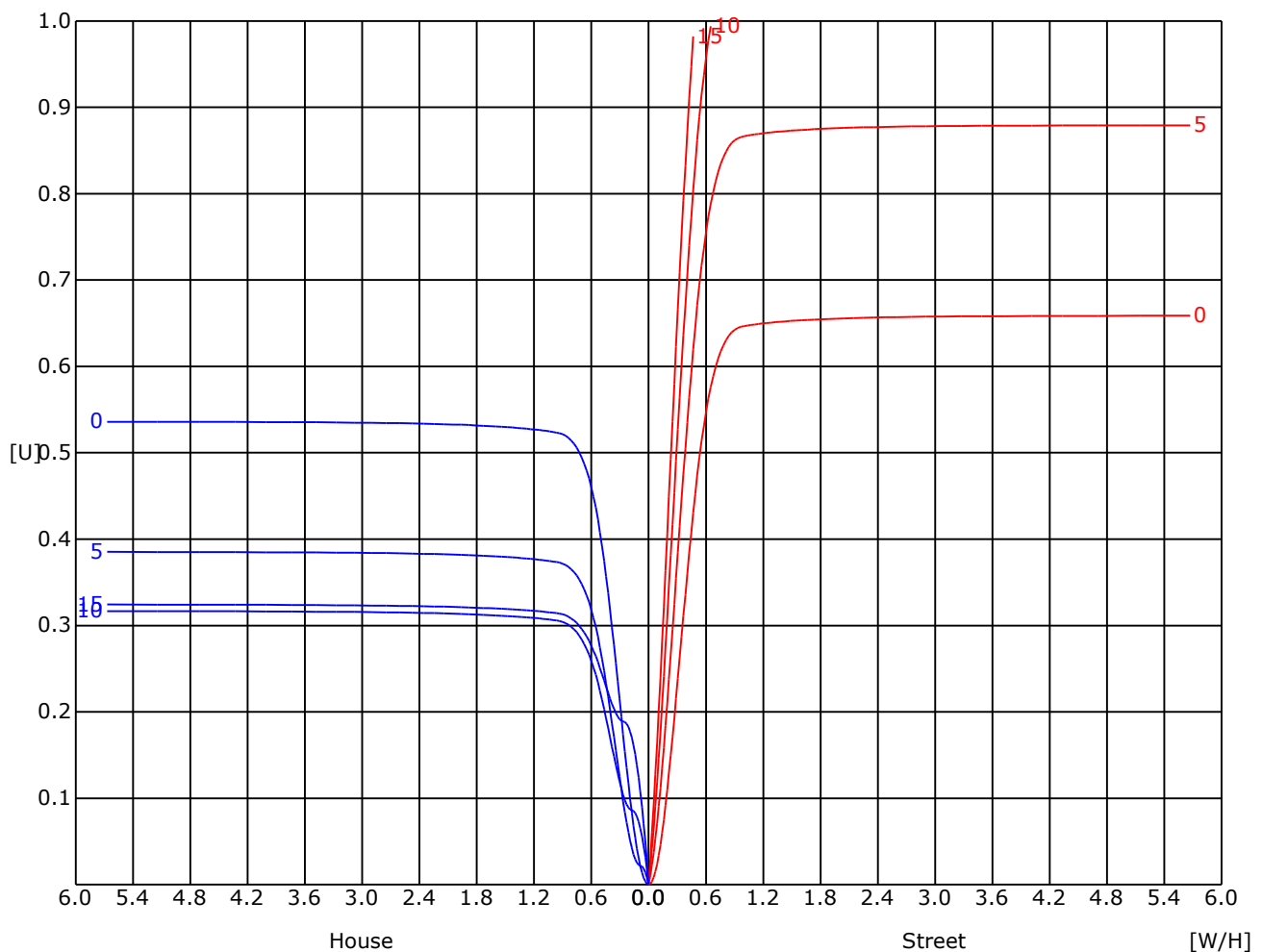
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	12.03	12.08	12.23	12.27	12.51	12.08	12.13	12.28	12.32	12.56
3H	12.01	12.06	12.22	12.26	12.50	12.06	12.11	12.27	12.30	12.55
4H	12.00	12.05	12.21	12.25	12.49	12.05	12.10	12.26	12.29	12.54
6H	11.98	12.03	12.20	12.23	12.49	12.03	12.08	12.24	12.28	12.53
8H	11.97	12.03	12.19	12.23	12.48	12.02	12.07	12.24	12.27	12.53
12H	11.97	12.02	12.19	12.22	12.48	12.01	12.06	12.23	12.27	12.52
4H 2H	12.04	12.09	12.25	12.29	12.54	12.17	12.22	12.38	12.42	12.67
3H	12.01	12.07	12.24	12.27	12.53	12.15	12.20	12.37	12.40	12.66
4H	12.00	12.05	12.23	12.26	12.52	12.13	12.18	12.35	12.39	12.65
6H	11.98	12.02	12.21	12.24	12.51	12.10	12.15	12.34	12.37	12.64
8H	11.96	12.01	12.21	12.24	12.50	12.09	12.14	12.33	12.37	12.63
12H	11.95	12.00	12.20	12.23	12.50	12.08	12.13	12.33	12.36	12.63
8H 4H	12.02	12.07	12.24	12.27	12.52	12.18	12.23	12.40	12.43	12.69
6H	11.94	11.98	12.19	12.22	12.49	12.10	12.15	12.36	12.39	12.66
8H	11.92	11.97	12.18	12.21	12.49	12.09	12.13	12.35	12.38	12.65
12H	11.91	11.95	12.18	12.20	12.48	12.07	12.11	12.34	12.37	12.65
12H 4H	11.95	12.00	12.20	12.23	12.50	12.12	12.17	12.37	12.40	12.67
6H	11.92	11.97	12.18	12.21	12.49	12.09	12.13	12.35	12.38	12.66

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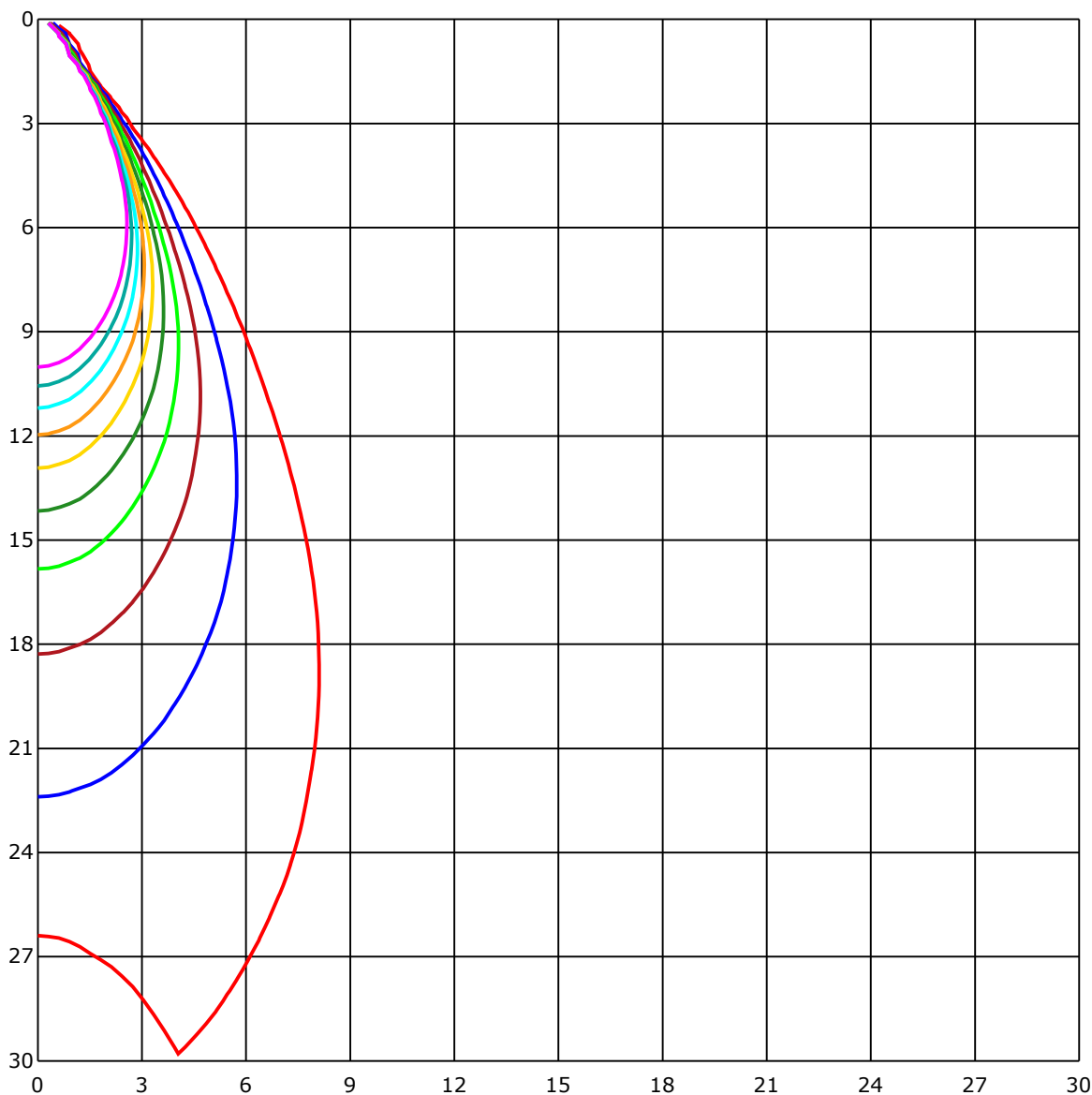
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

10.641
9.576
8.512
7.448
6.384

5.32
4.256
3.192
2.128
1.064

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	1066.6	1054.64	1060.85	1062.11	1066.6	1054.64	1060.85	1062.11	1066.6	
G1	1065.26	1043.42	1058.21	1061.36	1070.22	1057.65	1064.93	1064.89	1065.26	
G2	1059.74	1034.47	1053.2	1059.93	1072.73	1063.96	1062.52	1066.09	1059.74	
G3	1049.31	1023.57	1048.05	1058.95	1072.03	1065.31	1059.32	1064.84	1049.31	
G4	1040.12	1008.5	1039.98	1051.25	1071.66	1068.04	1055.57	1058.16	1040.12	
G5	1027.32	995.23	1030.85	1046.01	1070.04	1070.82	1051.67	1047.73	1027.32	
G6	1008.91	979.32	1021.85	1037.8	1069.62	1073.79	1043.42	1034.42	1008.91	
G7	987.39	959.89	1010.77	1028.25	1066.74	1069.94	1029.97	1019.39	987.39	
G8	965.04	935.68	997.04	1017.12	1060.81	1059.65	1010.95	1001.26	965.04	
G9	940.83	909.2	983.59	1003.76	1049.54	1042.54	985.4	981.18	940.83	
G10	916.53	881.8	963.88	986.88	1037.62	1023.29	954.47	956.18	916.53	
G11	887.08	853.55	944.31	967.13	1020.18	1002.56	921.63	928.45	887.08	
G12	858.93	824.15	919.78	939.35	993.75	984.8	889.68	900.25	858.93	
G13	828.93	796.46	894.92	911.48	965.5	962.77	856.94	873.35	828.93	
G14	799.11	765.44	866.54	883.42	936.19	941.02	821.78	843.21	799.11	
G15	767.11	735.01	840.38	855.73	908.97	915.6	786.49	812.37	767.11	
G16	738.54	706.86	811.67	826.7	879.62	888.8	747.91	775.92	738.54	
G17	704.68	678.3	786.12	800.96	851.09	855.73	710.39	738.96	704.68	
G18	671.9	651.72	757.74	772.58	822.2	817.98	666.1	699.4	671.9	
G19	635.96	623.29	728.52	744.99	792.24	778.65	621.72	662.16	635.96	
G20	600.94	594.91	699.58	714.15	761.26	736.27	578.91	622.92	600.94	
G21	567.69	566.11	673.2	683.49	726.67	693.65	537.41	583.5	567.69	
G22	531.98	535.88	644.07	651.54	692.16	652.93	491.68	542.28	531.98	
G23	497.57	505.27	615.64	617.41	652.7	609.06	445.72	499.47	497.57	
G24	461.3	474.33	586.29	581.23	613.23	565.0	401.29	457.08	461.3	
G25	426.01	440.34	558.83	544.08	569.96	522.52	359.14	415.34	426.01	
G26	388.86	406.21	528.92	508.14	526.55	478.37	318.65	374.67	388.86	
G27	351.44	370.64	500.21	472.2	481.66	433.2	282.06	336.23	351.44	
G28	313.69	336.23	467.66	432.64	437.14	389.42	246.54	300.29	313.69	
G29	277.1	302.56	433.52	393.64	394.15	347.73	215.37	266.25	277.1	
G30	242.69	269.12	397.49	353.53	350.97	307.43	186.34	234.48	242.69	
G31	209.94	236.05	361.59	315.45	311.42	270.42	160.28	203.82	209.94	
G32	181.7	206.61	327.04	279.46	276.22	235.82	137.13	175.95	181.7	
G33	156.7	179.2	292.87	246.58	241.48	204.94	116.68	151.97	156.7	
G34	133.42	153.27	258.92	215.7	210.64	177.06	98.41	130.04	133.42	
G35	112.74	129.06	227.38	187.13	180.77	152.21	82.18	110.98	112.74	
G36	94.75	108.33	198.26	160.09	154.39	129.3	68.36	93.91	94.75	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	79.16	89.6	171.45	135.05	130.87	109.26	56.95	80.0	79.16	
G38	65.11	72.72	146.18	112.32	110.84	91.82	45.45	67.62	65.11	
G39	51.76	56.76	123.69	91.55	91.69	76.71	34.69	56.07	51.76	
G40	37.94	39.19	103.42	72.02	74.25	62.93	23.79	43.96	37.94	
G41	25.46	24.3	83.52	52.64	56.86	49.67	14.79	32.6	25.46	
G42	15.4	13.36	62.38	33.62	39.7	36.03	8.81	23.0	15.4	
G43	8.67	7.42	42.48	18.5	26.25	25.14	6.35	16.19	8.67	
G44	6.54	5.75	27.04	9.32	17.48	17.02	5.61	12.89	6.54	
G45	5.84	5.1	17.53	6.21	13.31	13.03	5.29	11.69	5.84	
G46	5.57	4.82	13.12	5.01	11.73	11.45	5.05	10.9	5.57	
G47	5.29	4.64	11.41	4.64	10.81	10.76	4.87	10.34	5.29	
G48	5.1	4.5	10.48	4.31	10.2	10.2	4.73	9.79	5.1	
G49	4.92	4.31	9.83	4.31	9.6	9.74	4.5	9.51	4.92	
G50	4.78	4.17	9.32	4.17	9.23	9.32	4.27	9.18	4.78	
G51	4.54	3.9	8.9	3.99	8.77	8.77	4.17	8.67	4.54	
G52	4.41	3.71	8.49	3.71	8.44	8.35	3.9	8.25	4.41	
G53	4.31	3.62	8.02	3.52	7.88	7.93	3.94	8.07	4.31	
G54	4.22	3.57	7.42	3.48	7.61	7.56	3.76	7.84	4.22	
G55	3.94	3.34	7.14	3.2	7.19	7.33	3.66	7.37	3.94	
G56	3.9	3.25	6.86	2.88	6.86	6.96	3.43	7.05	3.9	
G57	3.71	3.01	6.49	2.92	6.54	6.82	3.39	6.86	3.71	
G58	3.66	2.88	6.12	2.78	6.26	6.49	3.29	6.54	3.66	
G59	3.43	2.74	5.89	2.69	6.03	6.08	3.15	6.35	3.43	
G60	3.29	2.64	5.66	2.5	5.7	5.98	2.92	6.17	3.29	
G61	3.2	2.46	5.38	2.37	5.57	5.7	3.01	5.94	3.2	
G62	3.01	2.32	5.1	2.18	5.38	5.43	2.69	5.75	3.01	
G63	2.92	2.23	4.96	2.18	5.05	5.19	2.6	5.52	2.92	
G64	2.83	1.99	4.73	1.99	4.92	5.1	2.37	5.29	2.83	
G65	2.64	1.81	4.54	1.95	4.64	4.82	2.18	5.01	2.64	
G66	2.55	1.76	4.27	1.76	4.5	4.54	1.99	4.64	2.55	
G67	2.18	1.53	4.13	1.62	4.22	4.41	1.9	4.36	2.18	
G68	2.13	1.39	3.8	1.39	3.99	4.13	1.72	4.17	2.13	
G69	1.81	1.11	3.76	1.21	3.71	3.85	1.58	4.08	1.81	
G70	1.67	1.11	3.48	1.11	3.48	3.57	1.39	3.71	1.67	
G71	1.34	0.83	3.25	0.97	3.15	3.39	1.11	3.39	1.34	
G72	1.21	0.79	2.92	0.6	2.97	3.2	0.93	3.15	1.21	
G73	1.02	0.56	2.78	0.56	2.69	2.88	0.74	3.06	1.02	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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