

Report No.:

Test Time: 2024/4/24 11:21:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H98-24°-14.8W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.78 W
Power Factor: 0.9500
Lamp Luminous Flux: 1654.21

Photometric Results

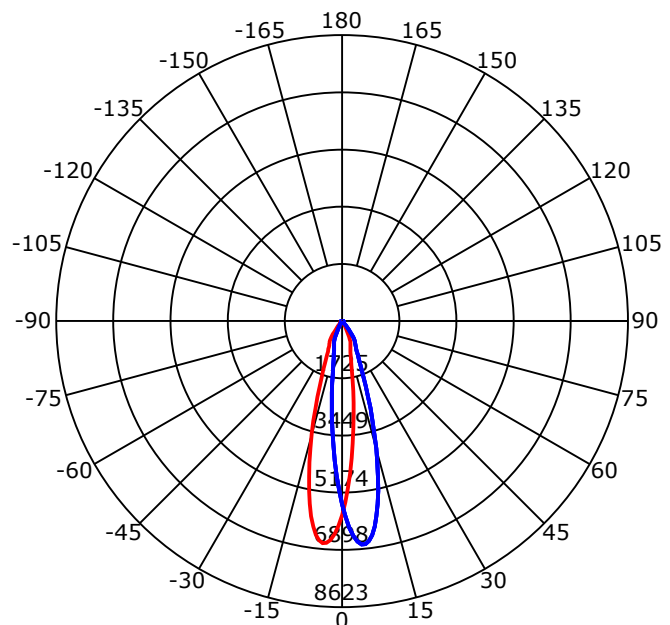
CIE Class: Direct
Luminaire Luminous Flux: 1654.212 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 111.96 lm/W
Beam Angle(50%) C0-180,C90-270: 21.2,21.3
Field Angle(10%) C0-180,C90-270: 54.1,54.1
S/MH C0-180,C90-270: 0.425,0.462

Max. Intensity: 6898.34 cd
Max.Intensity Angle: C=135 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5853.16 cd
Effective Luminous Flux: 1349.93 lm
ERP(ϕ use)(120deg): 1633.29 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.2 deg,21.3 deg

C0-180 — C90-270 —

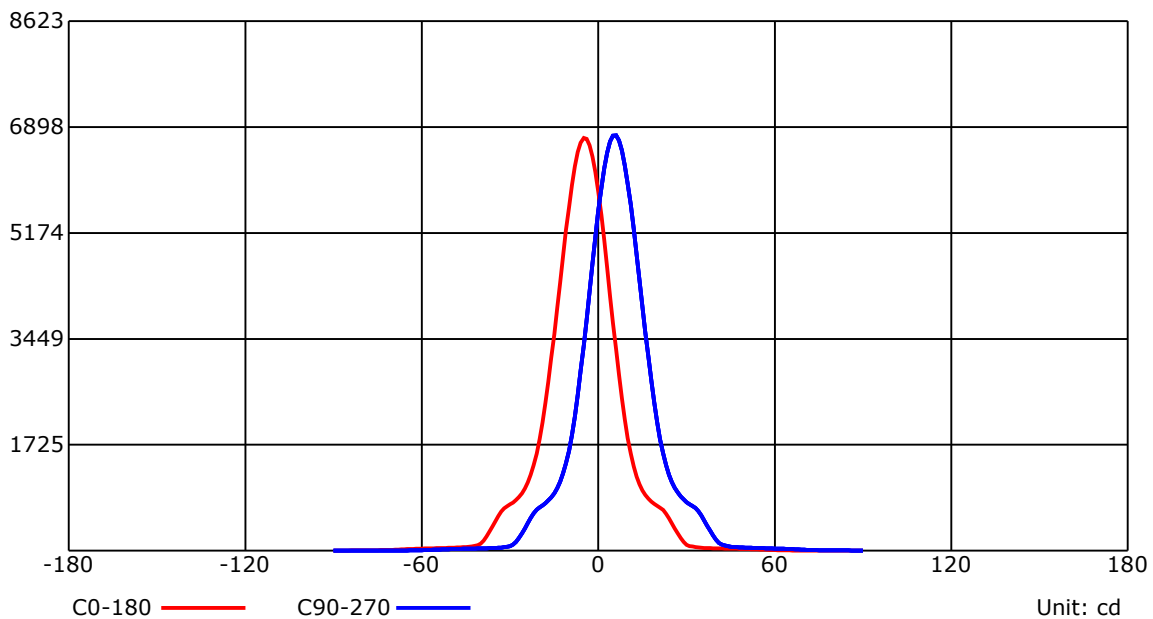
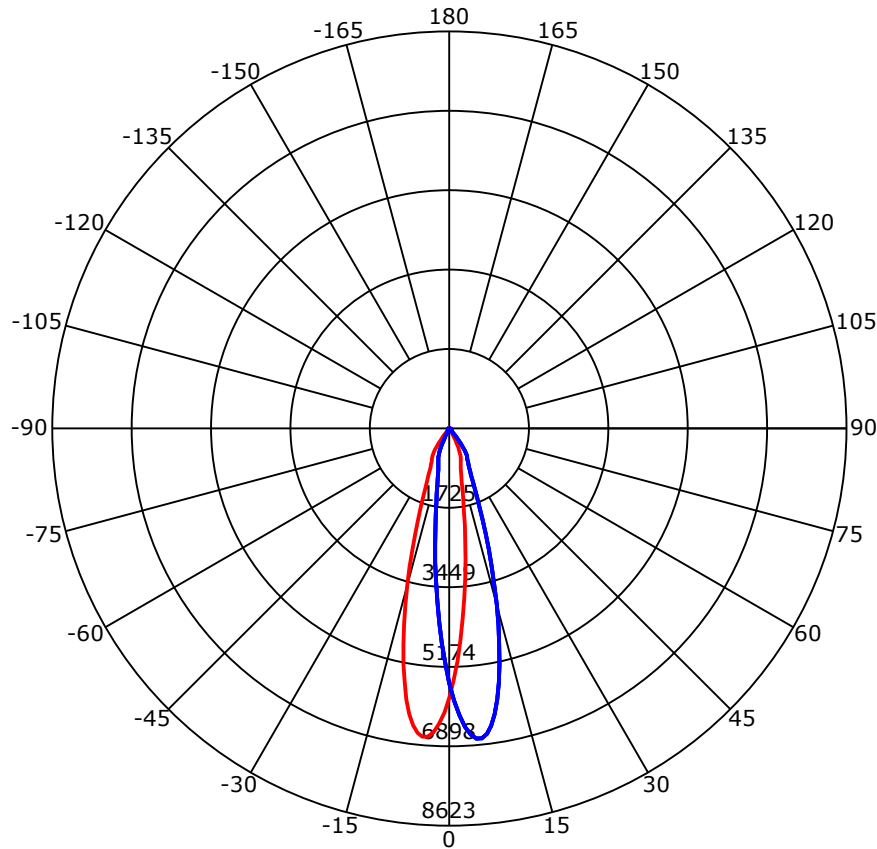
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 11:21:20

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



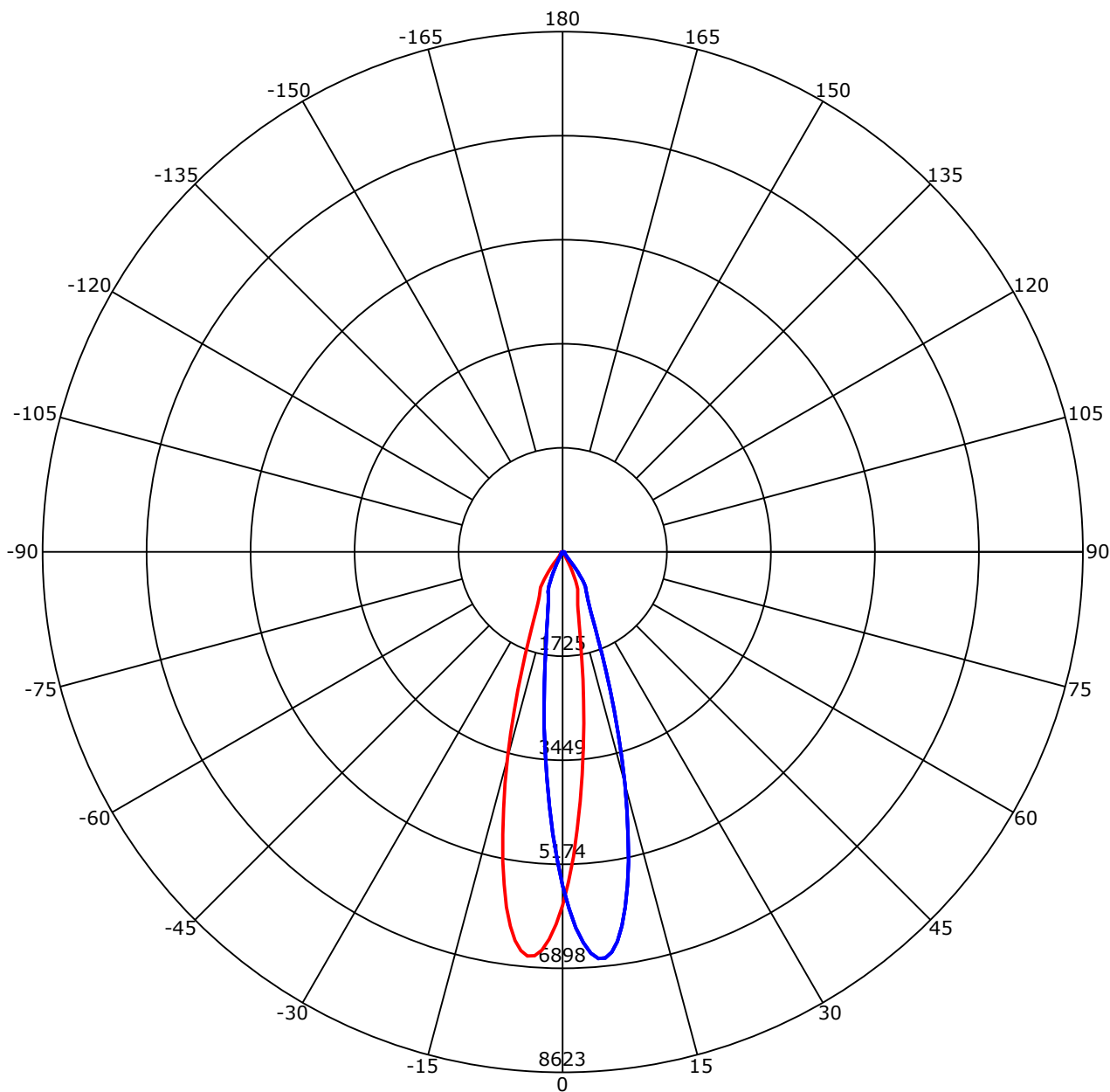
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

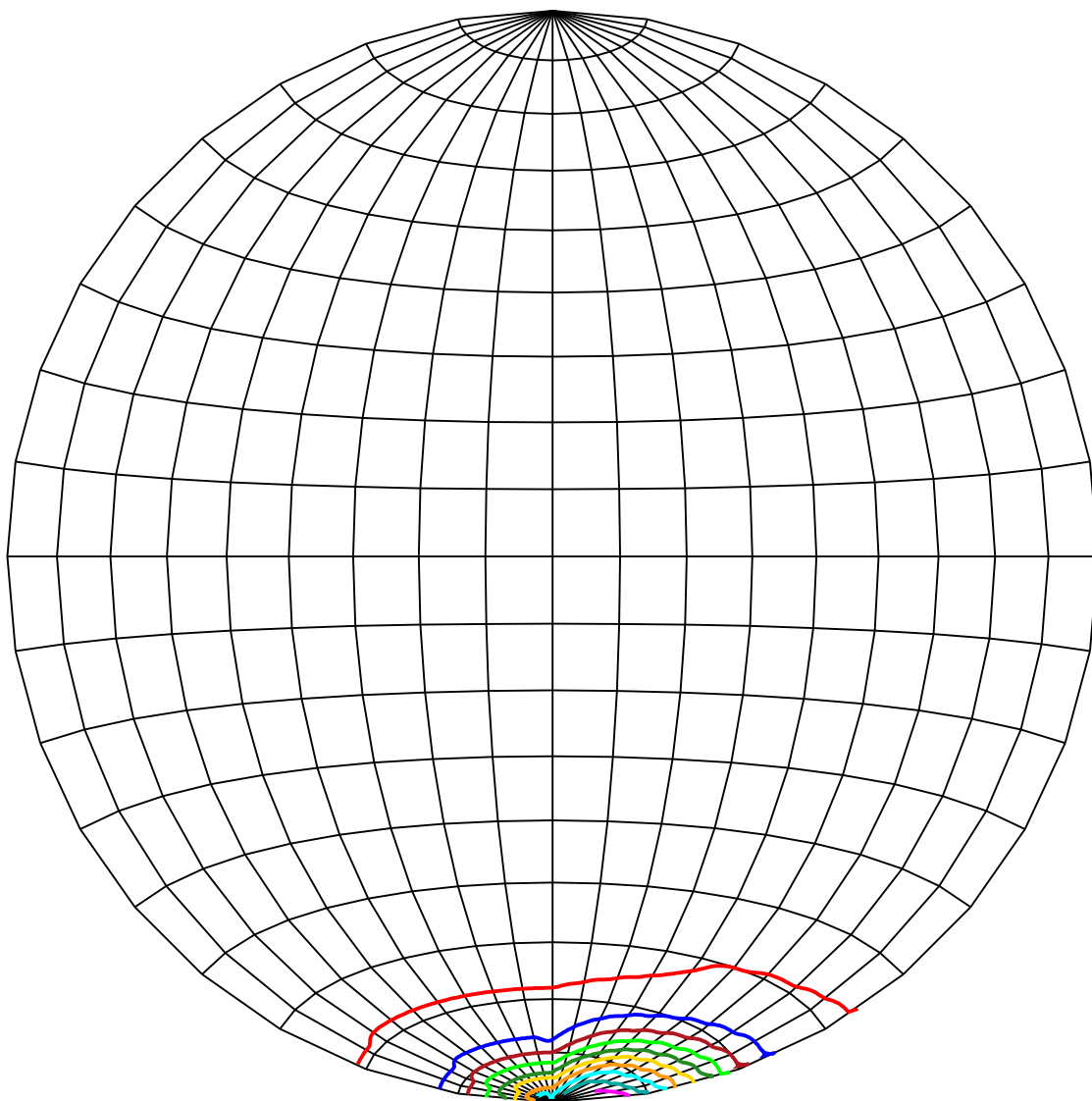
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Temperature: 25
Operators: QC01
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 6898.335 cd

6553.418(95%I _{max})	3449.167(50%I _{max})
6208.501(90%I _{max})	2759.334(40%I _{max})
5518.668(80%I _{max})	2069.5(30%I _{max})
4828.834(70%I _{max})	1379.667(20%I _{max})
4139.001(60%I _{max})	689.834(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/4/24 11:21:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

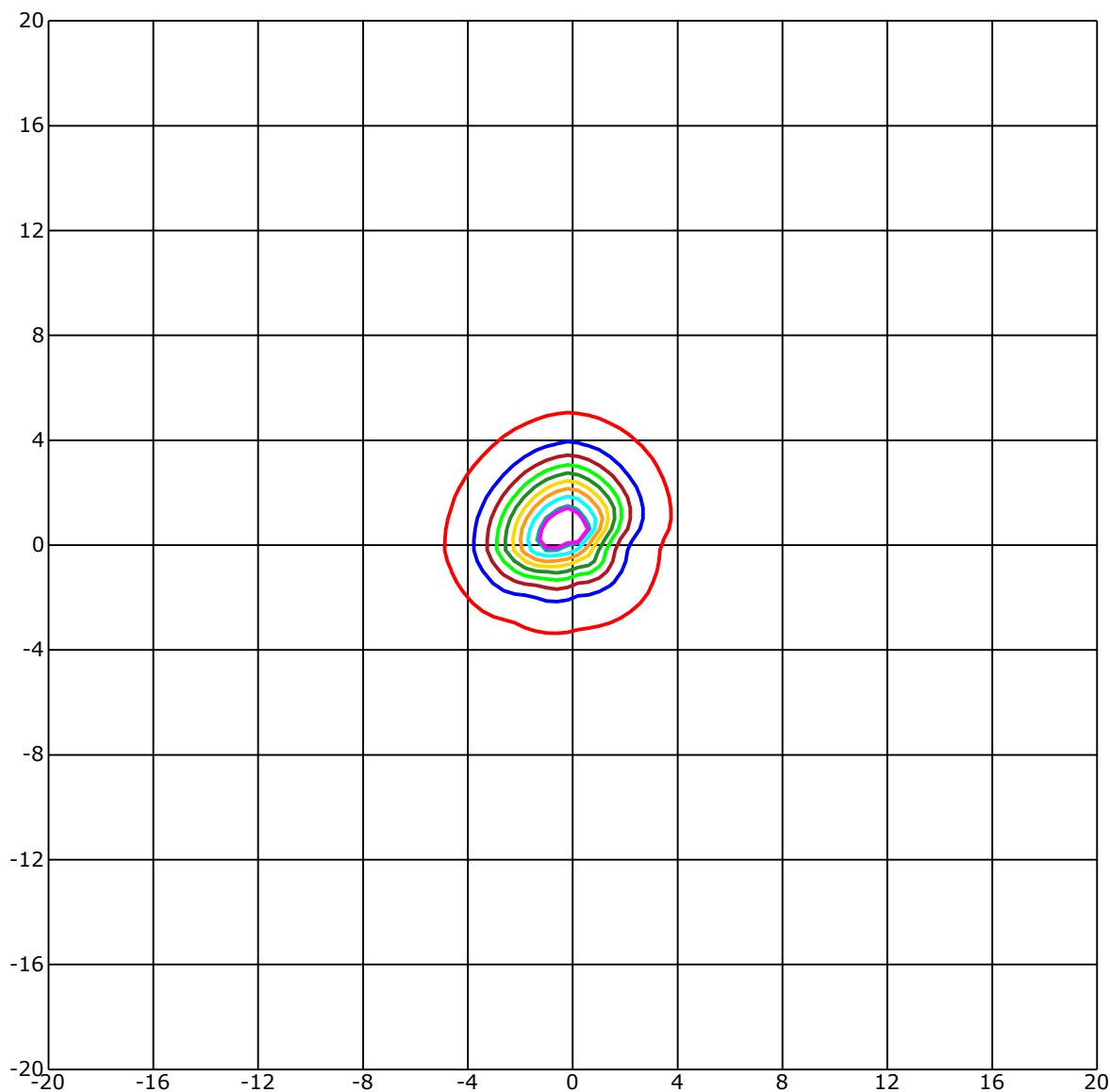
Test Distance: 6.81 m

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ISOLX DIAGRAM



62.821(92%Emax)
61.455(90%Emax)
54.627(80%Emax)
47.798(70%Emax)
40.97(60%Emax)

34.142(50%Emax)
27.313(40%Emax)
20.485(30%Emax)
13.657(20%Emax)
6.828(10%Emax)

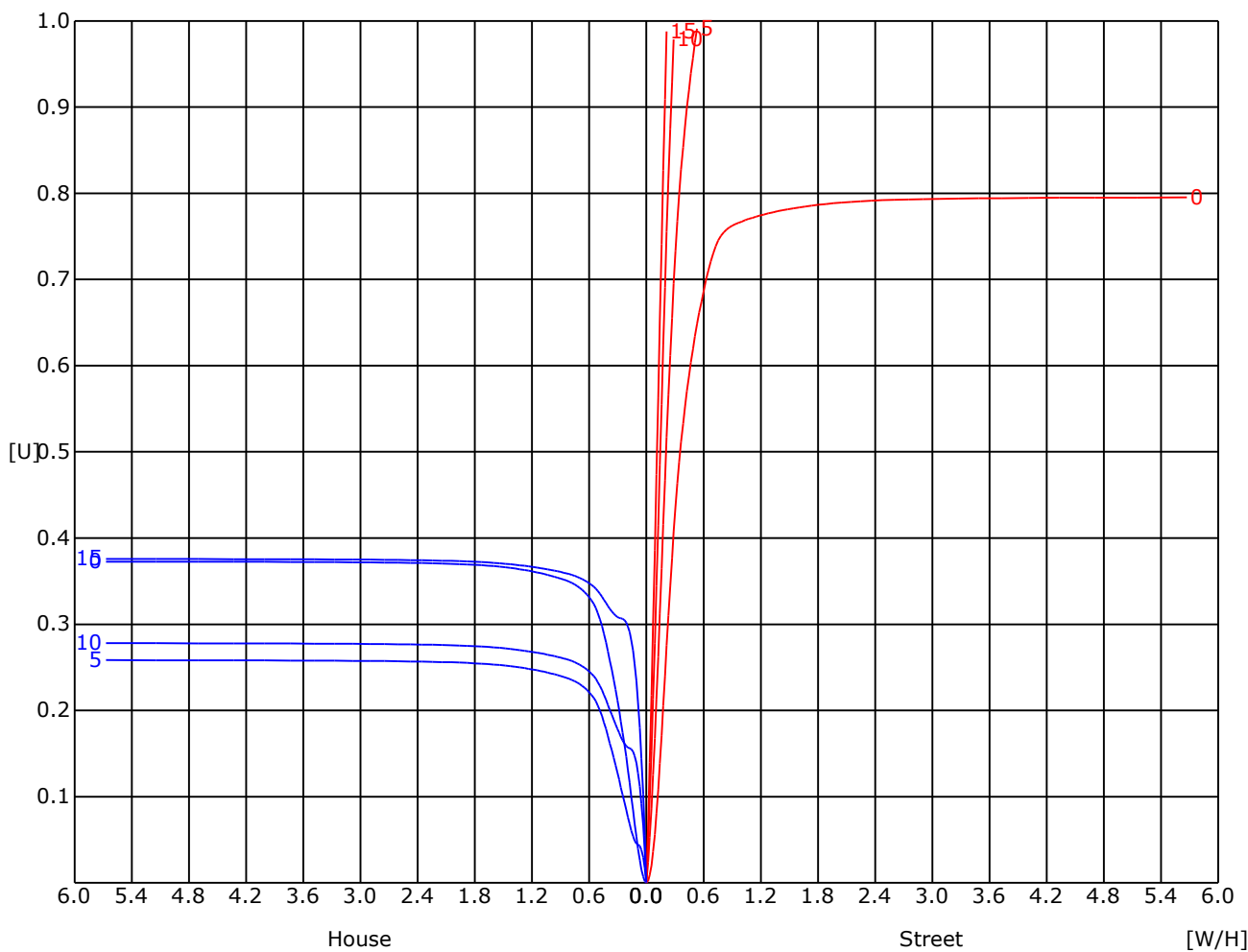
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UTILIZATION FACTOR DIAGRAM (ROAD)



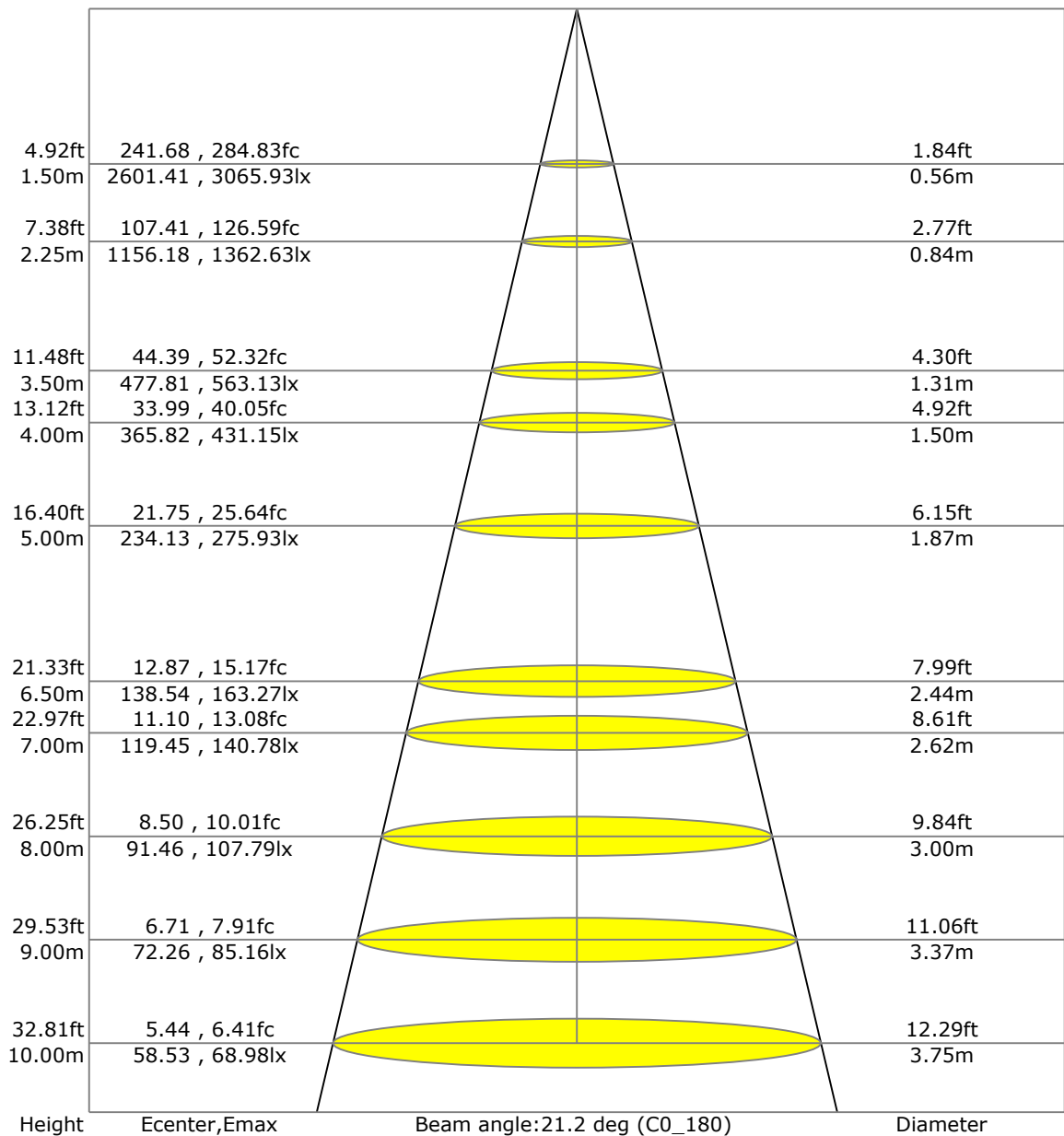
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

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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	9.58	9.63	9.78	9.82	10.06	10.03	10.09	10.23	10.28	10.52
3H	9.59	9.65	9.80	9.84	10.09	10.02	10.08	10.22	10.27	10.52
4H	9.58	9.64	9.79	9.84	10.09	10.00	10.06	10.21	10.26	10.51
6H	9.57	9.63	9.78	9.83	10.08	9.99	10.05	10.20	10.25	10.50
8H	9.56	9.62	9.78	9.82	10.08	9.98	10.04	10.20	10.24	10.50
12H	9.55	9.61	9.77	9.82	10.07	9.97	10.03	10.19	10.24	10.49
4H 2H	9.67	9.72	9.88	9.92	10.17	10.66	10.72	10.88	10.92	11.17
3H	9.69	9.75	9.91	9.96	10.21	10.66	10.72	10.88	10.93	11.18
4H	9.68	9.74	9.91	9.95	10.21	10.64	10.70	10.87	10.92	11.18
6H	9.66	9.72	9.90	9.94	10.21	10.62	10.68	10.86	10.90	11.17
8H	9.65	9.71	9.90	9.94	10.21	10.61	10.67	10.85	10.90	11.16
12H	9.64	9.70	9.89	9.93	10.20	10.60	10.65	10.85	10.89	11.16
8H 4H	9.64	9.70	9.86	9.91	10.16	10.76	10.82	10.98	11.02	11.27
6H	9.63	9.69	9.89	9.93	10.20	10.74	10.80	11.00	11.04	11.31
8H	9.62	9.68	9.89	9.92	10.20	10.73	10.78	10.99	11.03	11.30
12H	9.61	9.66	9.88	9.92	10.20	10.71	10.76	10.98	11.02	11.30
12H 4H	9.64	9.70	9.89	9.93	10.20	10.83	10.89	11.08	11.12	11.39
6H	9.62	9.67	9.88	9.92	10.20	10.82	10.87	11.08	11.12	11.40

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Humidity: 60
Test Distance: 6.81 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

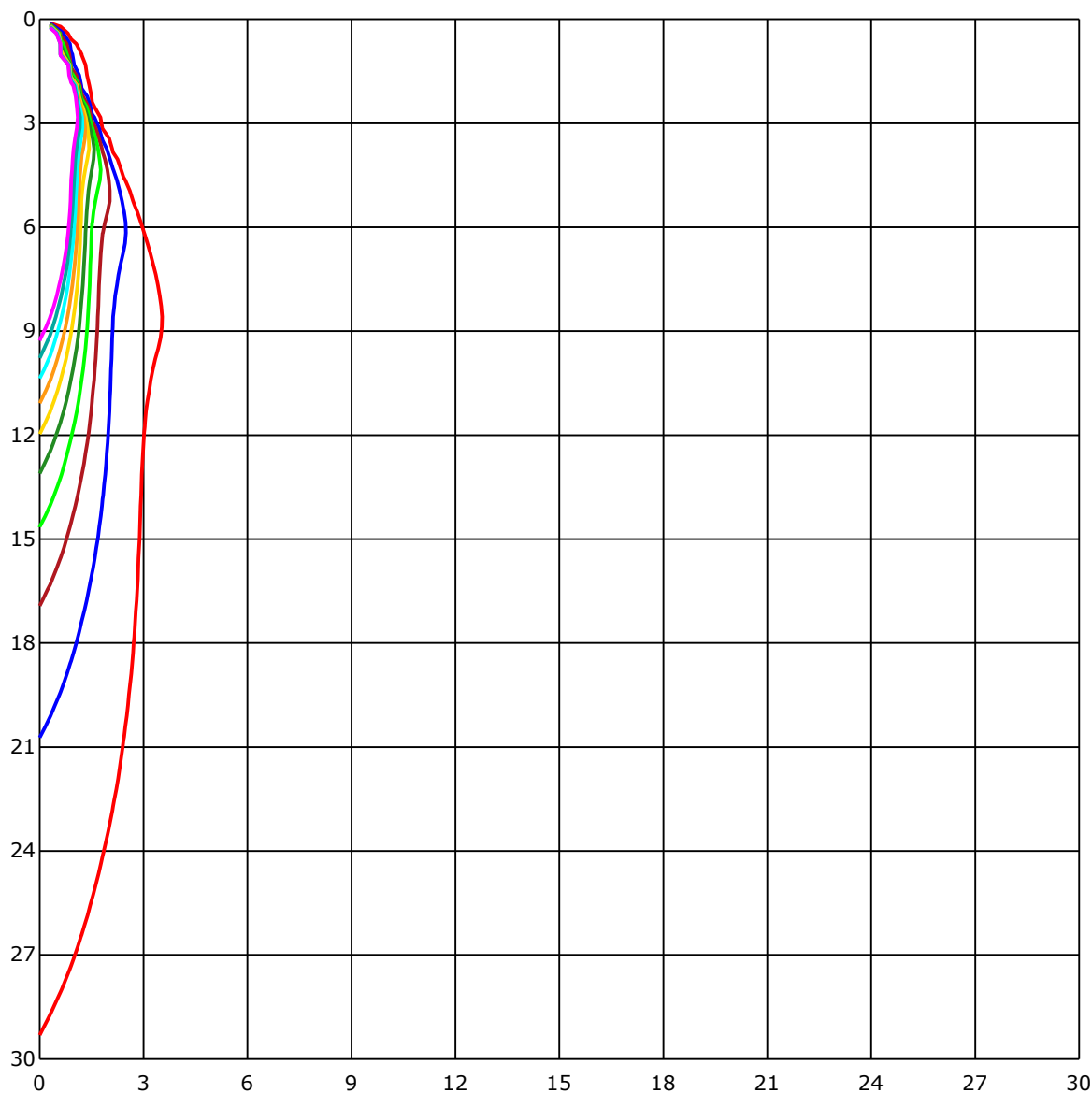
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

68.146	34.073
61.331	27.258
54.517	20.444
47.702	13.629
40.888	6.815

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5853.16	6256.14	5530.81	6002.6	5853.16	6256.14	5530.81	6002.6	5853.16	
G1	5465.58	6428.38	5906.49	6320.51	6168.92	6007.18	5106.69	5630.37	5465.58	
G2	5052.1	6524.72	6229.92	6577.06	6420.26	5703.5	4674.49	5218.19	5052.1	
G3	4604.73	6538.23	6482.39	6769.1	6603.86	5345.95	4221.55	4775.4	4604.73	
G4	4139.71	6459.94	6662.48	6878.49	6706.03	4963.89	3763.08	4319.94	4139.71	
G5	3705.58	6296.9	6760.03	6898.34	6721.02	4551.13	3341.48	3872.66	3705.58	
G6	3276.52	6062.44	6762.14	6817.71	6642.73	4133.7	2929.79	3443.6	3276.52	
G7	2862.1	5759.12	6679.63	6655.39	6489.61	3732.87	2536.33	3016.47	2862.1	
G8	2483.36	5399.59	6517.58	6413.79	6257.58	3315.49	2183.0	2627.59	2483.36	
G9	2138.25	5006.13	6274.9	6101.58	5956.1	2932.8	1881.39	2251.28	2138.25	
G10	1833.8	4587.35	5973.83	5735.15	5597.78	2561.24	1626.5	1937.36	1833.8	
G11	1574.92	4159.78	5625.7	5331.72	5217.03	2228.21	1420.19	1668.11	1574.92	
G12	1371.88	3761.56	5239.11	4895.57	4788.33	1929.06	1255.39	1452.15	1371.88	
G13	1205.25	3337.21	4818.31	4447.03	4361.42	1679.47	1122.25	1275.5	1205.25	
G14	1082.75	2935.4	4400.84	4034.31	3954.23	1475.18	1018.11	1138.01	1082.75	
G15	983.67	2574.89	3979.5	3569.2	3527.01	1303.61	935.6	1032.61	983.67	
G16	907.54	2228.3	3555.78	3154.29	3132.07	1166.69	867.45	950.68	907.54	
G17	848.51	1920.93	3152.67	2757.64	2749.83	1060.53	818.52	886.22	848.51	
G18	801.02	1656.26	2769.44	2398.25	2402.29	974.7	773.5	835.58	801.02	
G19	763.4	1444.47	2413.96	2071.05	2084.96	905.97	738.71	793.07	763.4	
G20	731.62	1275.91	2096.0	1788.51	1815.67	849.14	704.59	758.51	731.62	
G21	697.68	1139.89	1813.47	1553.06	1580.49	804.65	667.92	727.4	697.68	
G22	662.4	1034.22	1579.77	1362.77	1387.19	769.46	607.0	685.56	662.4	
G23	602.51	955.17	1394.06	1208.48	1236.45	736.69	533.25	620.47	602.51	
G24	527.77	889.0	1236.94	1089.17	1111.03	702.8	448.63	546.98	527.77	
G25	445.62	834.37	1117.36	991.4	1012.58	648.12	363.43	462.77	445.62	
G26	362.98	789.97	1021.83	914.9	933.85	575.0	281.91	376.13	362.98	
G27	278.18	756.76	946.37	849.99	872.3	495.81	205.06	292.46	278.18	
G28	202.81	723.99	882.63	797.83	823.24	410.2	141.09	215.88	202.81	
G29	141.67	691.4	833.25	752.9	784.68	325.05	97.91	151.95	141.67	
G30	97.46	650.82	789.44	716.62	755.0	244.56	76.4	111.96	97.46	
G31	76.4	589.09	755.81	684.08	724.43	174.49	65.58	92.74	76.4	
G32	67.02	510.8	725.51	652.7	691.26	122.68	56.56	80.13	67.02	
G33	58.63	428.65	693.28	606.64	635.96	96.02	50.55	70.52	58.63	
G34	52.25	345.43	640.09	541.15	562.74	80.94	46.46	63.7	52.25	
G35	47.9	266.42	574.32	463.62	482.34	69.94	45.16	59.61	47.9	
G36	45.65	193.66	493.16	383.85	395.75	62.17	43.95	57.06	45.65	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	43.63	134.09	409.08	299.37	308.98	58.36	41.75	54.32	43.63	
G38	41.79	93.46	324.33	226.11	229.21	56.07	40.22	51.67	41.79	
G39	39.86	75.77	245.23	161.11	161.2	54.23	38.56	49.78	39.86	
G40	38.56	65.45	176.46	108.99	114.25	51.85	37.21	47.9	38.56	
G41	37.12	56.92	125.6	81.07	91.44	49.65	36.18	45.65	37.12	
G42	35.96	50.68	98.62	68.46	78.69	47.76	35.01	44.22	35.96	
G43	34.79	47.45	83.85	58.72	68.82	45.74	33.8	42.87	34.79	
G44	33.94	45.29	72.9	52.21	62.22	44.22	32.81	41.39	33.94	
G45	32.64	43.32	64.78	47.67	58.4	43.14	31.69	39.91	32.64	
G46	31.51	41.48	59.84	45.34	56.38	41.52	30.3	38.56	31.51	
G47	30.61	39.82	57.64	43.86	54.14	40.4	29.22	36.94	30.61	
G48	29.27	38.16	54.63	41.88	51.71	39.01	27.97	35.6	29.27	
G49	27.88	37.08	52.16	40.22	49.69	37.75	26.71	34.03	27.88	
G50	26.57	35.91	49.92	39.1	47.94	36.45	25.23	32.32	26.57	
G51	25.23	34.97	48.21	37.75	46.06	34.83	23.97	30.84	25.23	
G52	23.79	33.89	46.19	36.76	44.76	33.62	22.27	29.27	23.79	
G53	22.45	32.86	44.85	35.69	43.41	31.78	20.83	27.7	22.45	
G54	21.05	31.6	43.45	34.7	42.15	30.3	19.26	26.13	21.05	
G55	19.26	30.7	42.2	33.85	40.89	28.86	17.55	24.29	19.26	
G56	17.64	29.18	40.89	32.81	39.95	26.84	15.98	22.71	17.64	
G57	16.07	28.06	39.46	31.78	38.34	25.27	14.36	20.65	16.07	
G58	14.28	26.49	38.02	30.66	36.94	23.34	12.25	18.9	14.28	
G59	12.03	25.27	36.59	29.54	35.51	21.5	9.92	16.21	12.03	
G60	9.74	24.06	35.01	28.37	34.03	19.62	8.48	14.14	9.74	
G61	8.39	22.53	33.67	27.02	32.46	17.42	7.41	12.66	8.39	
G62	7.32	20.87	31.92	25.5	30.93	14.99	6.28	11.45	7.32	
G63	6.28	19.39	30.44	23.93	29.18	13.29	5.39	10.37	6.28	
G64	5.39	17.6	28.64	22.49	27.47	12.08	4.53	9.34	5.39	
G65	4.44	15.89	26.84	20.47	25.41	10.77	3.91	8.35	4.44	
G66	3.82	13.92	24.96	18.99	23.39	9.65	3.01	7.68	3.82	
G67	3.1	11.72	23.07	16.97	21.37	8.8	2.47	6.64	3.1	
G68	2.38	9.25	21.1	14.9	19.53	7.77	1.93	6.02	2.38	
G69	1.93	8.04	19.08	12.7	17.24	7.09	1.57	5.25	1.93	
G70	1.57	7.05	16.47	10.37	14.36	6.19	1.26	4.89	1.57	
G71	1.35	6.06	14.01	8.57	12.79	5.52	1.21	4.58	1.35	
G72	1.3	5.3	12.39	7.72	11.76	5.21	1.12	4.4	1.3	
G73	1.12	4.49	11.27	6.64	10.59	4.71	0.99	4.4	1.12	

C Range: 0 - 360 Deg

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Test Speed: High

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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:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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