

Report No.:

Test Time: 2024/10/8 14:06:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

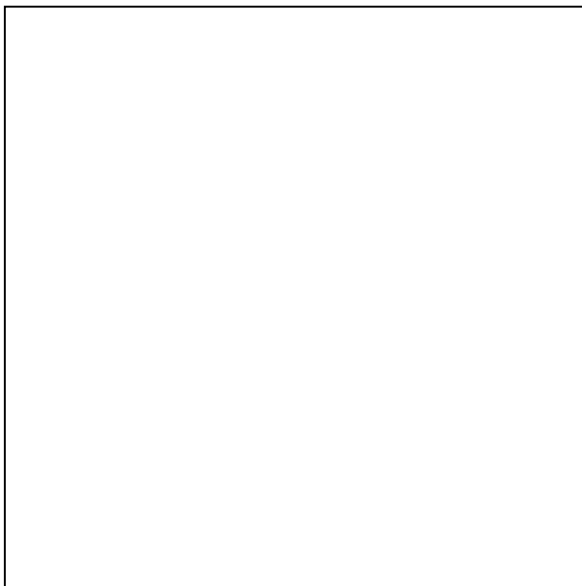
Voltage(V): 219.90 V
Current(A): 0.2070 A
Power(W): 43.17 W
Power Factor: 0.9460
Lamp Luminous Flux: 3952.71

Photometric Results

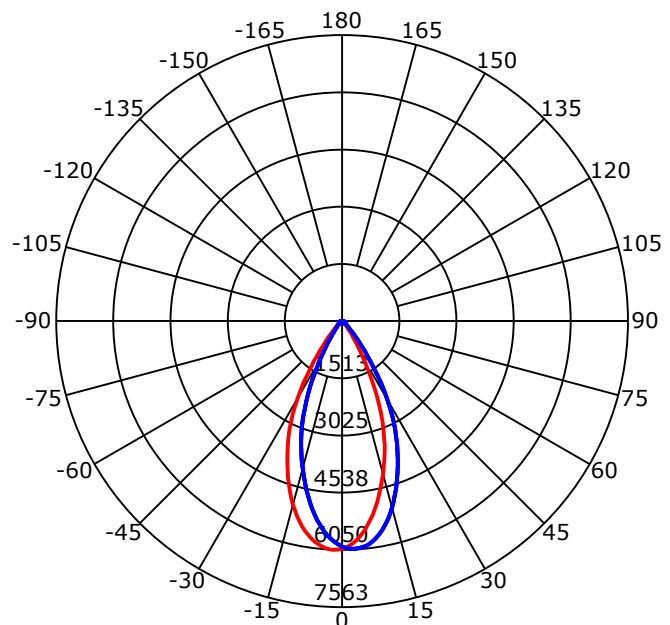
CIE Class: Direct
Luminaire Luminous Flux: 3952.709 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.56 lm/W
Beam Angle(50%) C0-180,C90-270: 47.9,47.7
Field Angle(10%) C0-180,C90-270: 73.2,74.0
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 6050.04 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6021.43 cd
Effective Luminous Flux: 3534.60 lm
ERP(ϕ use)(120deg): 3878.89 lm

Picture of Luminaire



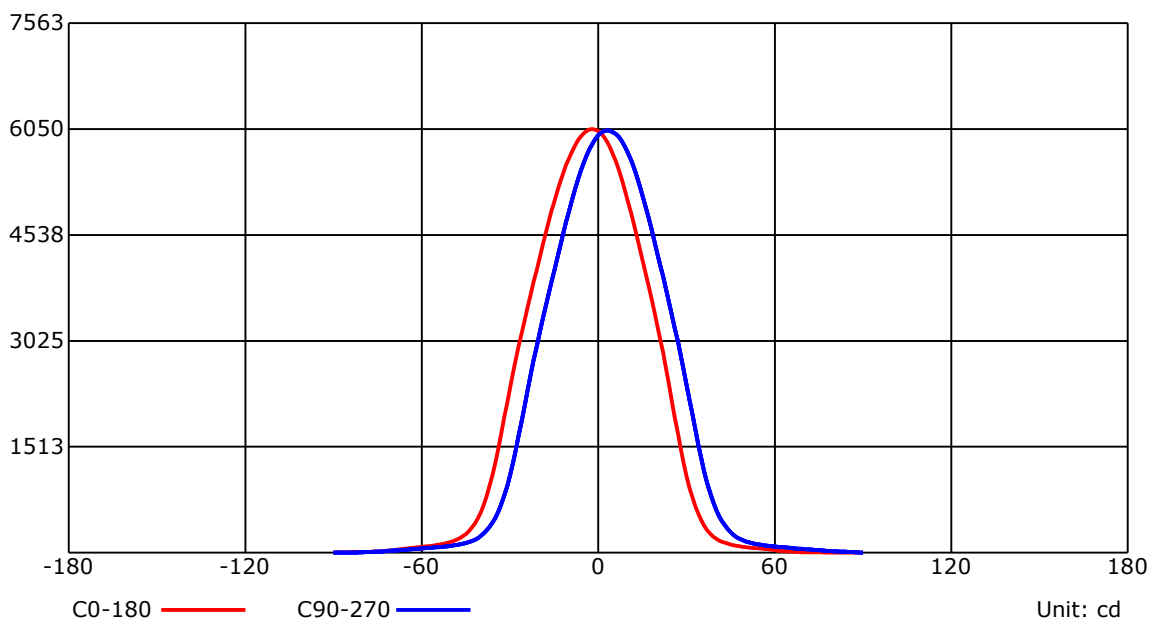
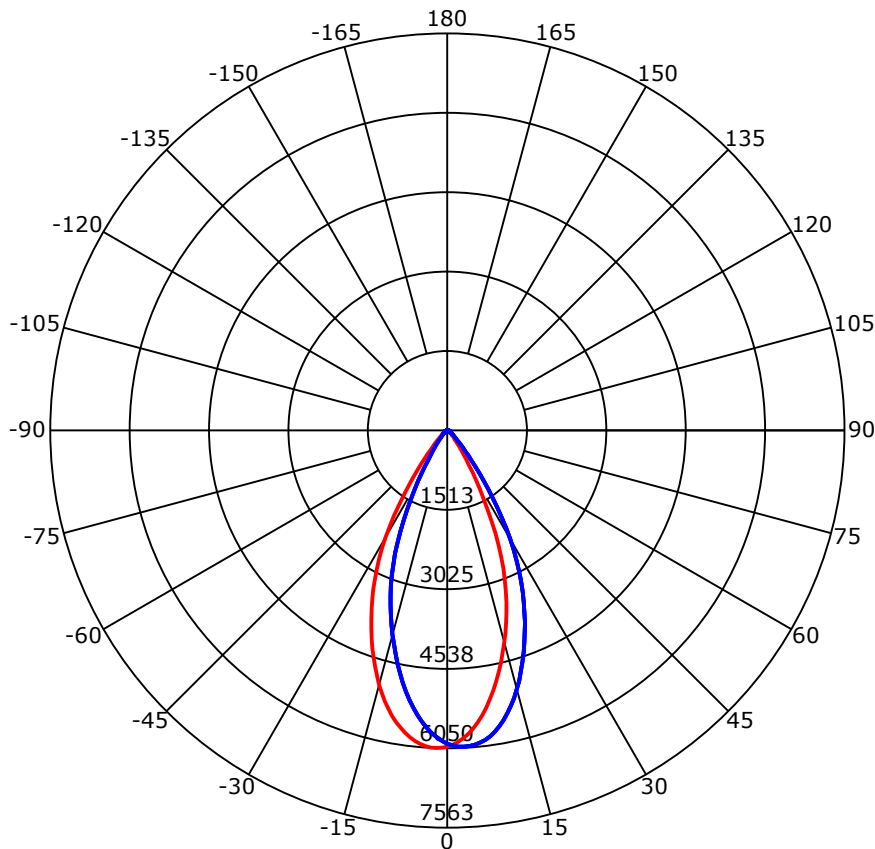
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve



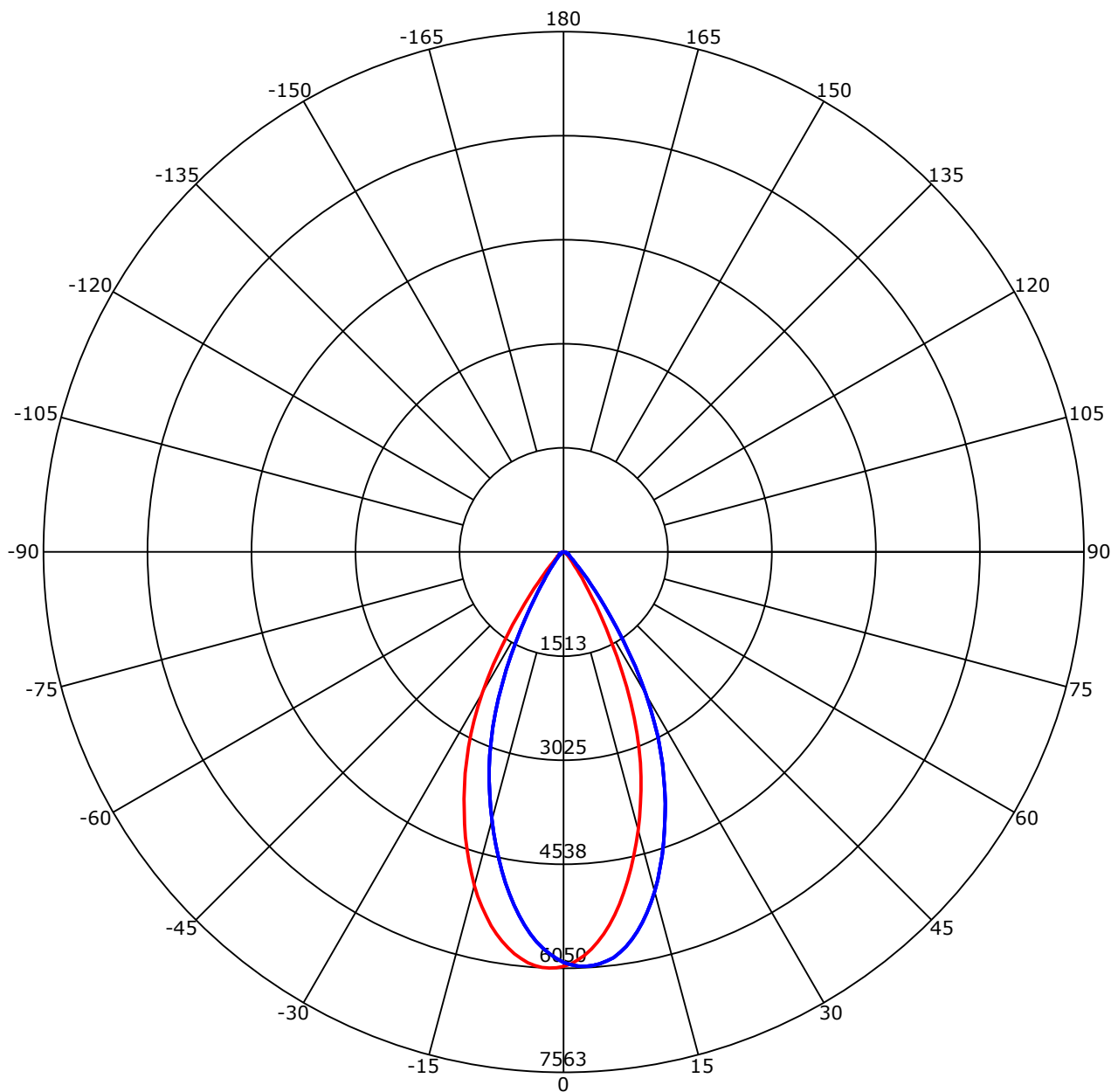
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 14:06:45

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



C0-180 — C90-270

Unit: cd/klm

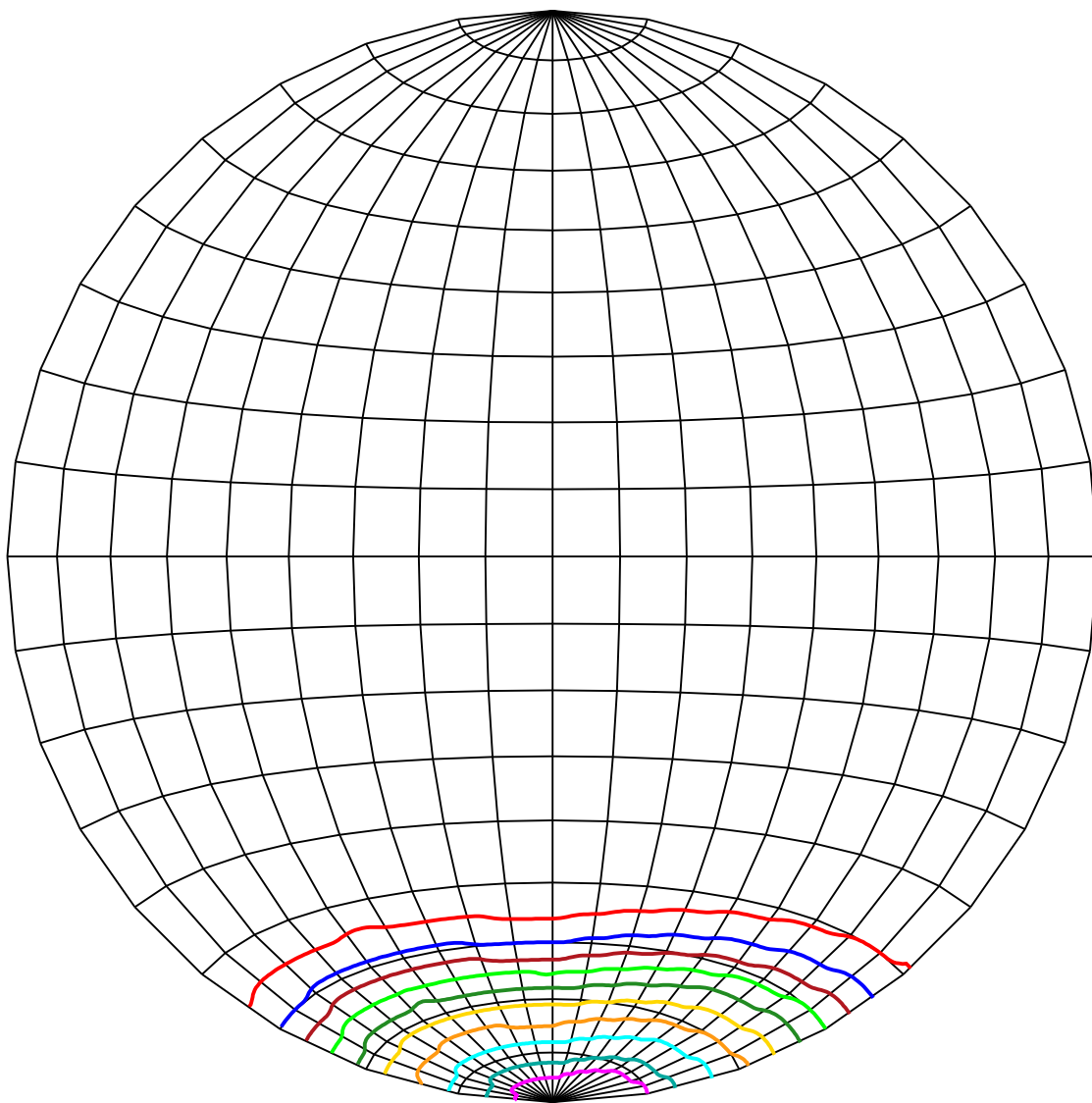
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 14:06:45

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 6050.04 cd

5747.538(95%Imax)	3025.02(50%Imax)
5445.036(90%Imax)	2420.016(40%Imax)
4840.032(80%Imax)	1815.012(30%Imax)
4235.028(70%Imax)	1210.008(20%Imax)
3630.024(60%Imax)	605.004(10%Imax)

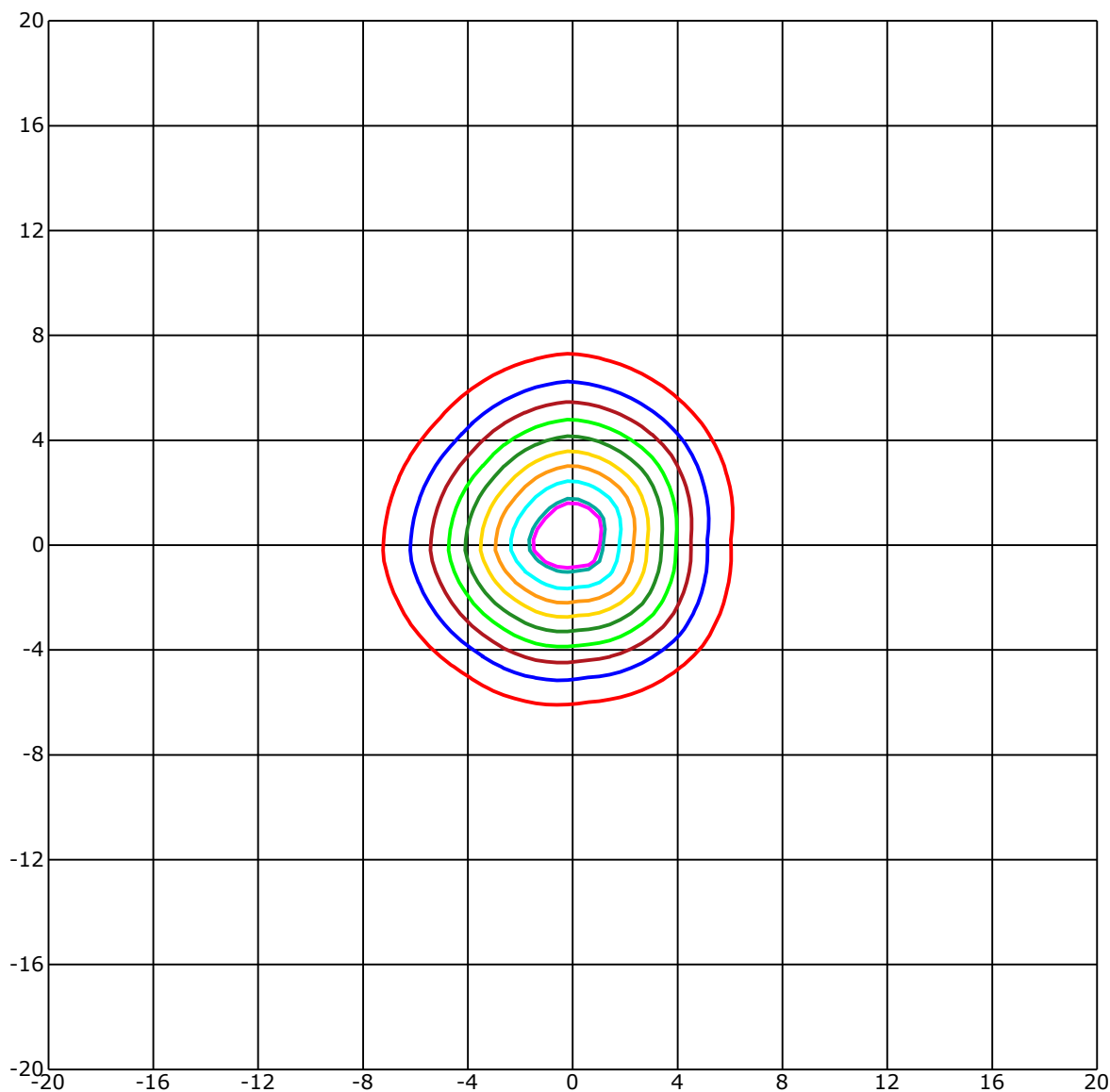
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Test Speed: High
Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/8 14:06:45

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

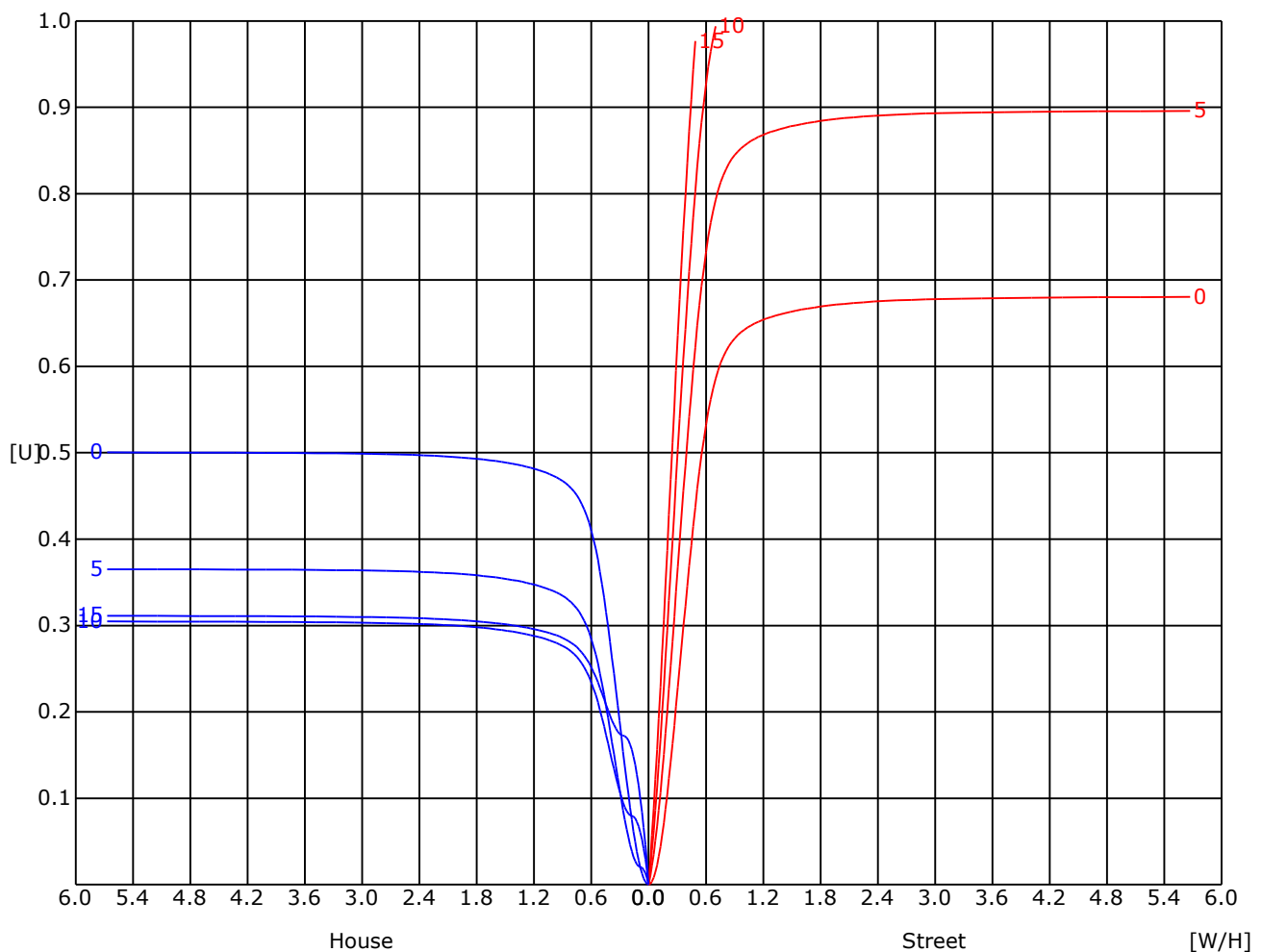
Test Distance: 6.81 m

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UTILIZATION FACTOR DIAGRAM (ROAD)



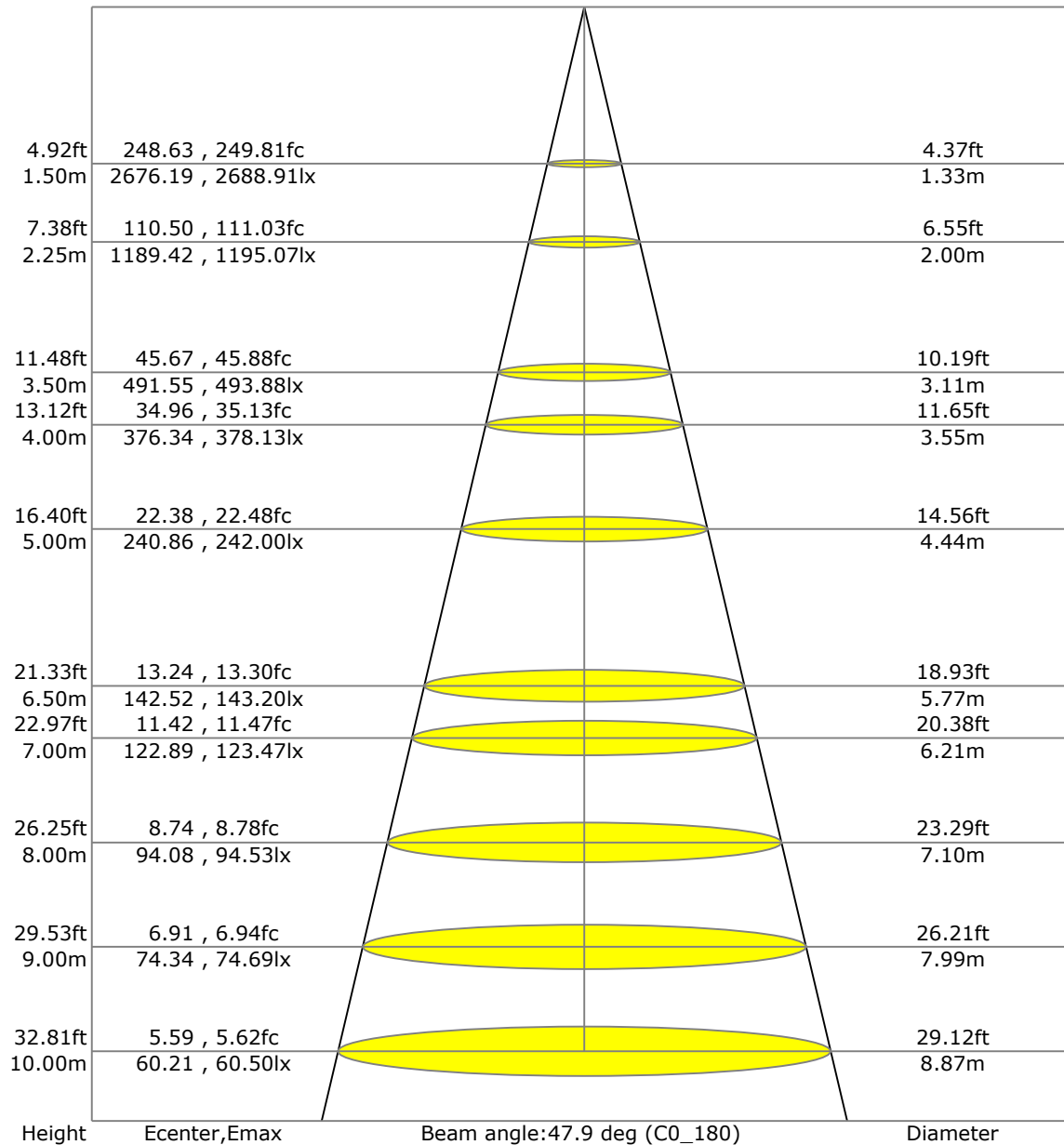
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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/8 14:06:45

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	8.62	8.68	8.82	8.86	9.11	8.96	9.01	9.15	9.19	9.44
	3H	8.63	8.68	8.84	8.88	9.12	8.94	8.99	9.15	9.18	9.43
	4H	8.62	8.67	8.83	8.87	9.12	8.93	8.98	9.14	9.17	9.42
	6H	8.61	8.66	8.82	8.86	9.11	8.91	8.96	9.12	9.16	9.41
	8H	8.60	8.65	8.82	8.85	9.11	8.90	8.95	9.12	9.15	9.41
	12H	8.59	8.64	8.81	8.85	9.10	8.89	8.94	9.11	9.15	9.40
4H	2H	8.71	8.77	8.92	8.96	9.21	9.46	9.52	9.67	9.71	9.96
	3H	8.73	8.78	8.95	8.99	9.24	9.47	9.52	9.69	9.72	9.98
	4H	8.72	8.77	8.95	8.98	9.24	9.45	9.50	9.68	9.71	9.97
	6H	8.70	8.75	8.94	8.97	9.24	9.43	9.47	9.66	9.70	9.96
	8H	8.69	8.74	8.93	8.97	9.23	9.41	9.46	9.66	9.69	9.95
	12H	8.68	8.73	8.93	8.96	9.23	9.40	9.45	9.65	9.68	9.95
8H	4H	8.69	8.74	8.91	8.95	9.20	9.58	9.63	9.80	9.84	10.09
	6H	8.67	8.72	8.93	8.96	9.23	9.57	9.61	9.82	9.85	10.12
	8H	8.66	8.70	8.92	8.95	9.22	9.55	9.60	9.81	9.84	10.12
	12H	8.65	8.69	8.91	8.94	9.22	9.54	9.58	9.81	9.83	10.11
12H	4H	8.68	8.73	8.93	8.96	9.23	9.64	9.69	9.89	9.92	10.19
	6H	8.66	8.70	8.92	8.95	9.22	9.62	9.67	9.89	9.91	10.19

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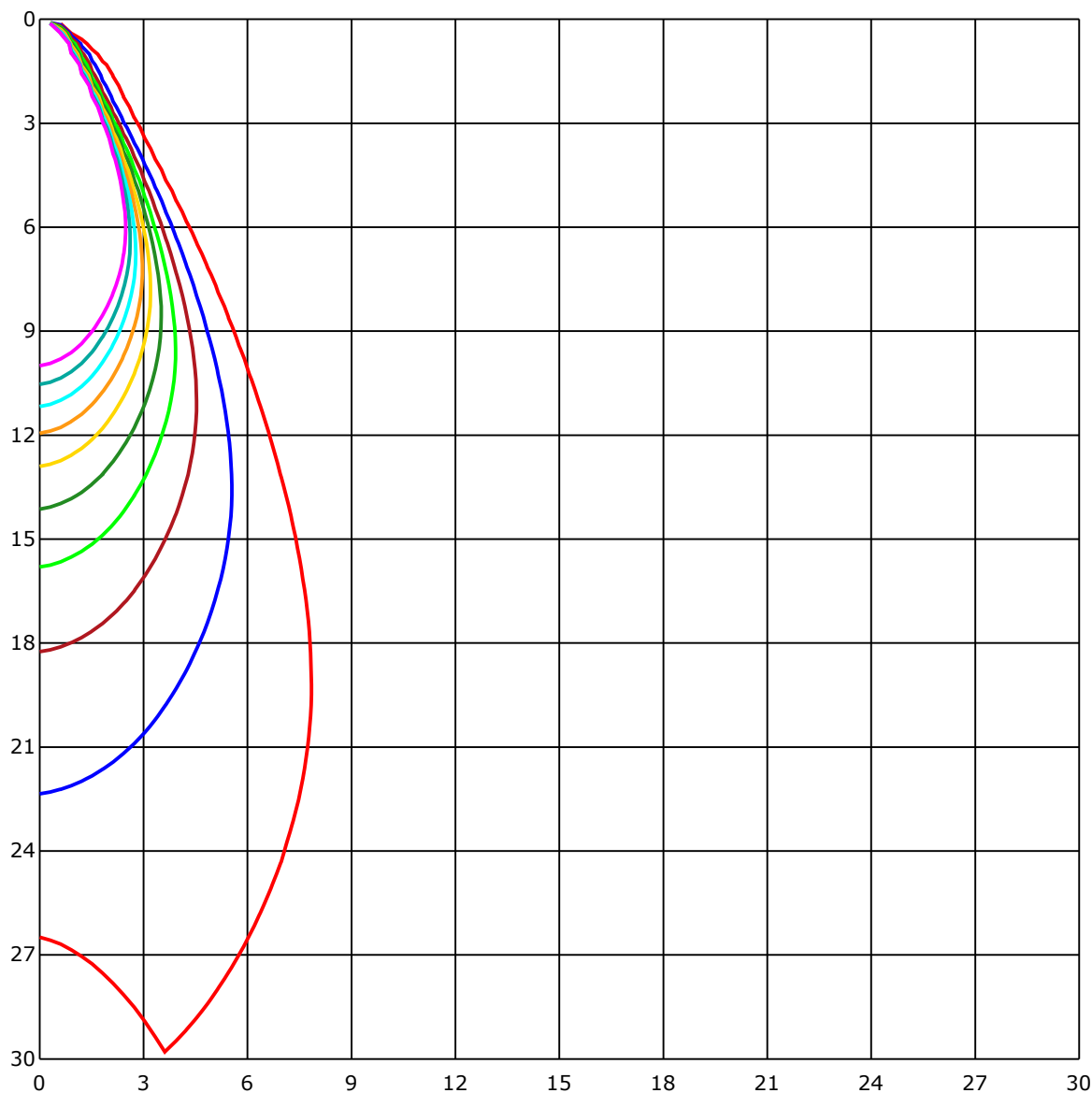
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 14:06:45

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	6021.43	5999.44	5964.71	6021.52	6021.43	5999.44	5964.71	6021.52	6021.43	
G1	5988.08	6013.5	5997.96	6035.2	6042.81	5972.18	5910.31	5993.93	5988.08	
G2	5933.36	6018.41	6022.31	6036.87	6050.04	5928.86	5842.04	5955.16	5933.36	
G3	5867.69	6007.75	6030.01	6020.13	6046.33	5870.8	5765.34	5894.96	5867.69	
G4	5782.91	5982.66	6024.77	5992.72	6025.14	5800.4	5675.92	5826.42	5782.91	
G5	5689.05	5945.74	6006.86	5950.42	5990.45	5727.96	5569.58	5741.55	5689.05	
G6	5580.62	5893.99	5977.83	5894.45	5941.71	5637.85	5448.73	5641.56	5580.62	
G7	5458.61	5825.16	5938.0	5823.17	5884.25	5532.16	5319.85	5530.26	5458.61	
G8	5326.62	5740.2	5877.2	5748.6	5807.96	5414.18	5181.88	5402.68	5326.62	
G9	5182.07	5649.35	5803.46	5653.39	5725.41	5286.97	5033.15	5263.64	5182.07	
G10	5027.87	5541.29	5715.67	5551.36	5636.13	5145.75	4879.14	5117.51	5027.87	
G11	4865.22	5426.84	5617.03	5440.24	5531.6	5000.64	4715.8	4965.95	4865.22	
G12	4701.75	5293.37	5504.01	5319.94	5411.67	4847.14	4545.83	4807.81	4701.75	
G13	4533.13	5149.93	5381.44	5186.05	5291.42	4691.13	4373.45	4644.89	4533.13	
G14	4356.34	4993.08	5248.06	5039.55	5157.58	4528.16	4201.44	4478.31	4356.34	
G15	4183.26	4829.7	5104.15	4882.2	5017.62	4359.31	4028.79	4303.93	4183.26	
G16	4010.33	4660.66	4956.54	4724.29	4864.99	4195.27	3852.18	4137.21	4010.33	
G17	3817.08	4488.51	4794.83	4560.16	4706.94	4026.93	3674.66	3964.42	3817.08	
G18	3642.66	4312.56	4630.93	4389.13	4545.04	3854.18	3498.24	3780.44	3642.66	
G19	3453.21	4137.31	4461.29	4213.13	4381.43	3684.58	3324.75	3604.17	3453.21	
G20	3258.25	3960.24	4285.85	4038.71	4207.56	3516.38	3137.16	3418.71	3258.25	
G21	3061.84	3785.08	4115.69	3865.08	4035.32	3338.06	2948.04	3233.67	3061.84	
G22	2852.13	3596.14	3941.69	3682.49	3869.39	3164.29	2747.6	3043.25	2852.13	
G23	2625.54	3410.17	3758.69	3501.35	3686.67	2974.56	2543.13	2847.54	2625.54	
G24	2406.97	3224.95	3576.8	3311.62	3518.28	2787.62	2331.28	2636.3	2406.97	
G25	2165.35	3028.08	3395.66	3129.92	3336.16	2579.39	2115.21	2425.33	2165.35	
G26	1931.7	2818.14	3205.98	2942.01	3156.4	2371.63	1901.42	2200.78	1931.7	
G27	1705.71	2599.2	3019.64	2735.77	2964.87	2153.61	1687.35	1980.77	1705.71	
G28	1480.51	2378.63	2812.9	2527.87	2773.06	1931.52	1477.45	1761.13	1480.51	
G29	1275.48	2142.3	2606.57	2318.43	2568.73	1714.25	1285.31	1550.17	1275.48	
G30	1091.32	1914.22	2391.15	2101.21	2359.25	1502.96	1110.8	1346.34	1091.32	
G31	924.65	1689.3	2184.82	1884.82	2140.81	1304.7	953.12	1164.83	924.65	
G32	781.99	1474.53	1964.54	1668.94	1925.95	1124.53	812.32	1000.7	781.99	
G33	654.74	1270.33	1746.01	1464.65	1696.81	961.65	692.26	854.11	654.74	
G34	552.43	1086.69	1534.77	1268.57	1487.98	815.99	587.59	727.83	552.43	
G35	461.12	920.75	1344.3	1092.34	1289.86	691.61	501.74	620.88	461.12	
G36	385.2	780.79	1160.05	933.83	1111.22	587.26	428.89	531.19	385.2	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	319.11	658.68	996.21	796.42	947.97	499.29	367.81	456.34	319.11	
G38	269.07	555.91	851.88	675.38	801.94	428.14	317.86	393.83	269.07	
G39	230.72	467.61	726.44	572.42	678.3	366.83	275.38	340.54	230.72	
G40	200.85	396.1	617.92	485.7	574.74	317.44	238.14	296.67	200.85	
G41	176.92	336.88	527.85	415.58	488.2	275.85	208.37	261.28	176.92	
G42	157.73	289.29	452.86	355.24	415.9	242.92	185.69	231.23	157.73	
G43	141.17	250.01	390.81	305.53	357.51	216.81	167.79	207.9	141.17	
G44	127.07	219.22	335.44	264.67	308.12	195.57	152.72	187.96	127.07	
G45	115.38	194.32	289.94	232.34	268.29	178.69	140.47	172.52	115.38	
G46	105.83	175.3	251.96	205.86	236.7	165.24	130.04	158.37	105.83	
G47	97.99	159.67	222.51	185.46	209.94	153.5	120.53	147.52	97.99	
G48	91.5	147.06	198.26	168.25	188.8	144.18	112.74	137.74	91.5	
G49	85.61	135.93	179.38	155.13	171.59	135.42	105.69	129.11	85.61	
G50	80.37	126.56	163.2	143.3	157.17	127.81	99.43	121.46	80.37	
G51	75.64	118.17	150.26	133.66	144.55	121.27	94.19	114.69	75.64	
G52	71.7	111.16	139.08	125.35	133.75	115.48	89.46	108.06	71.7	
G53	67.34	104.39	129.25	118.58	124.15	110.1	84.96	102.82	67.34	
G54	63.26	98.6	120.95	112.23	116.45	105.27	81.11	96.79	63.26	
G55	59.27	93.08	113.9	106.94	108.98	100.54	77.68	91.69	59.27	
G56	55.37	87.93	107.31	101.75	102.82	96.32	74.25	86.86	55.37	
G57	51.25	83.38	101.84	97.2	97.34	92.29	71.14	82.32	51.25	
G58	46.75	78.84	96.79	92.98	92.71	88.49	67.99	77.59	46.75	
G59	42.43	74.67	92.66	88.72	87.65	84.59	64.83	73.09	42.43	
G60	36.92	70.77	88.3	85.1	83.48	80.46	61.59	68.59	36.92	
G61	30.38	66.69	84.87	80.83	79.3	76.24	58.34	64.46	30.38	
G62	26.11	62.65	80.88	76.61	75.18	72.3	54.68	59.87	26.11	
G63	23.0	58.29	77.36	72.76	70.72	67.94	50.69	55.56	23.0	
G64	19.99	54.21	73.6	68.64	66.23	63.72	46.93	51.43	19.99	
G65	17.34	49.85	70.35	64.74	61.73	59.08	43.73	46.56	17.34	
G66	14.42	45.4	66.6	60.52	57.37	54.49	40.86	41.74	14.42	
G67	11.97	41.0	62.79	56.21	52.27	49.85	38.07	36.92	11.97	
G68	9.92	36.73	58.16	51.85	45.17	44.71	35.06	32.09	9.92	
G69	7.79	31.91	54.63	47.03	38.07	39.61	32.51	27.87	7.79	
G70	6.12	27.41	51.48	42.62	33.76	34.83	29.73	23.37	6.12	
G71	4.87	23.14	48.05	38.12	30.1	29.5	26.62	20.31	4.87	
G72	4.03	18.83	45.08	33.21	26.94	25.27	22.91	17.48	4.03	
G73	3.94	15.68	42.02	28.52	23.84	22.08	19.39	14.98	3.94	

C Range: 0 - 360 Deg

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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(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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