

Report No.:

Test Time: 2024/7/3 14:50:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT055-50°-8.6W
Lamp Type:
Luminous Width: 50 mm
Luminous Length: 50 mm
Luminous Height: 50 mm

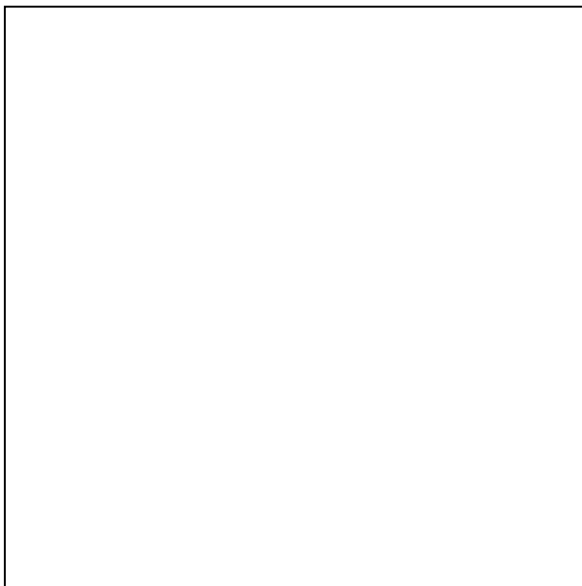
Voltage(V): 219.90 V
Current(A): 0.0420 A
Power(W): 8.58 W
Power Factor: 0.9270
Lamp Luminous Flux: 854.75

Photometric Results

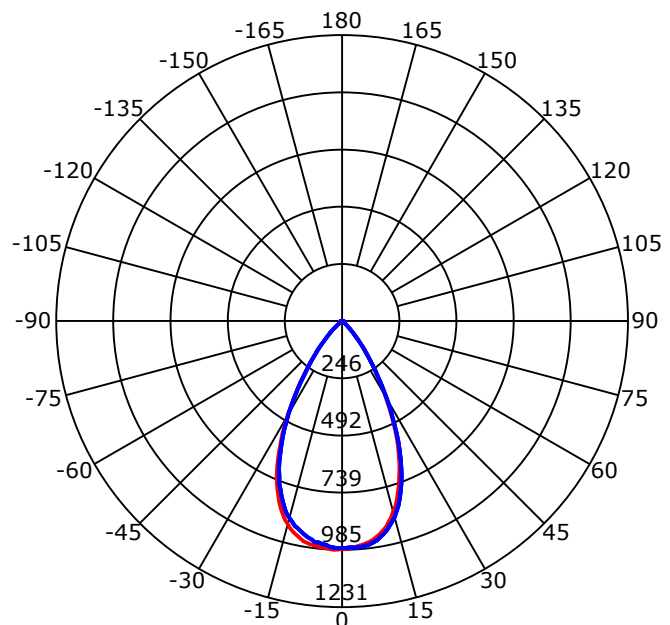
CIE Class: Direct
Luminaire Luminous Flux: 854.7515 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.64 lm/W
Beam Angle(50%) C0-180,C90-270: 56.2,56.4
Field Angle(10%) C0-180,C90-270: 84.7,84.4
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 984.80 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 980.80 cd
Effective Luminous Flux: 801.18 lm
ERP(ϕ use)(120deg): 846.33 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.2 deg,56.4 deg

C0-180 — C90-270 —

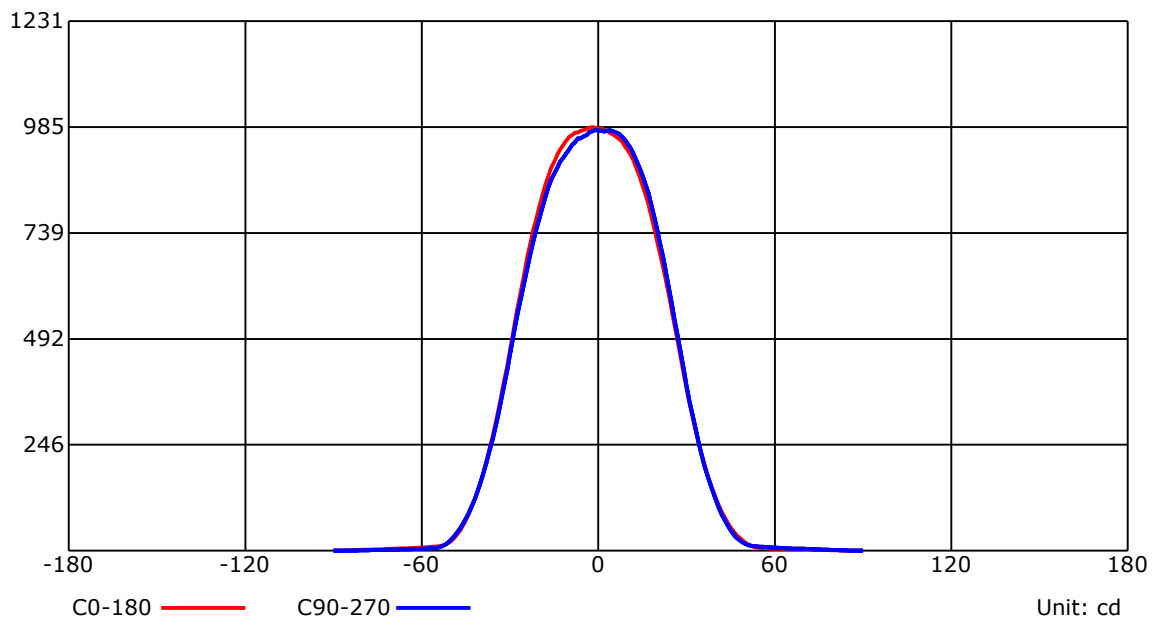
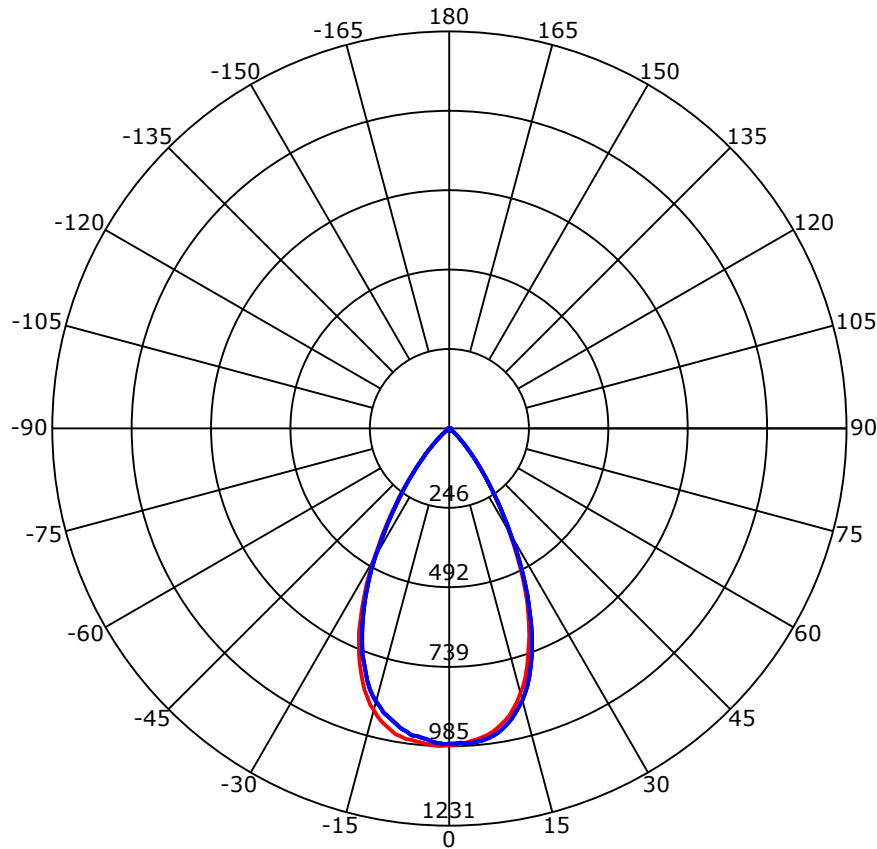
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



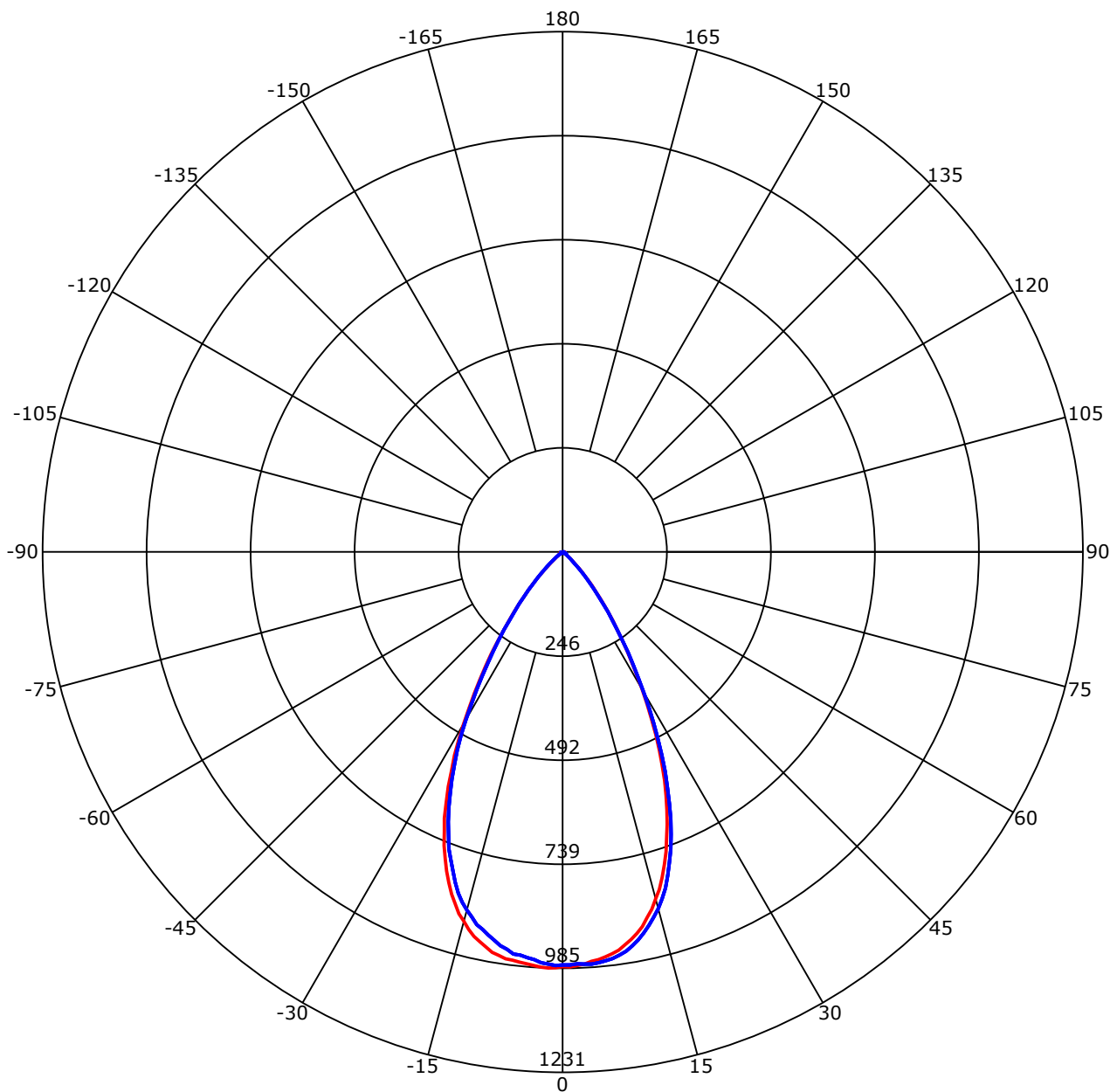
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

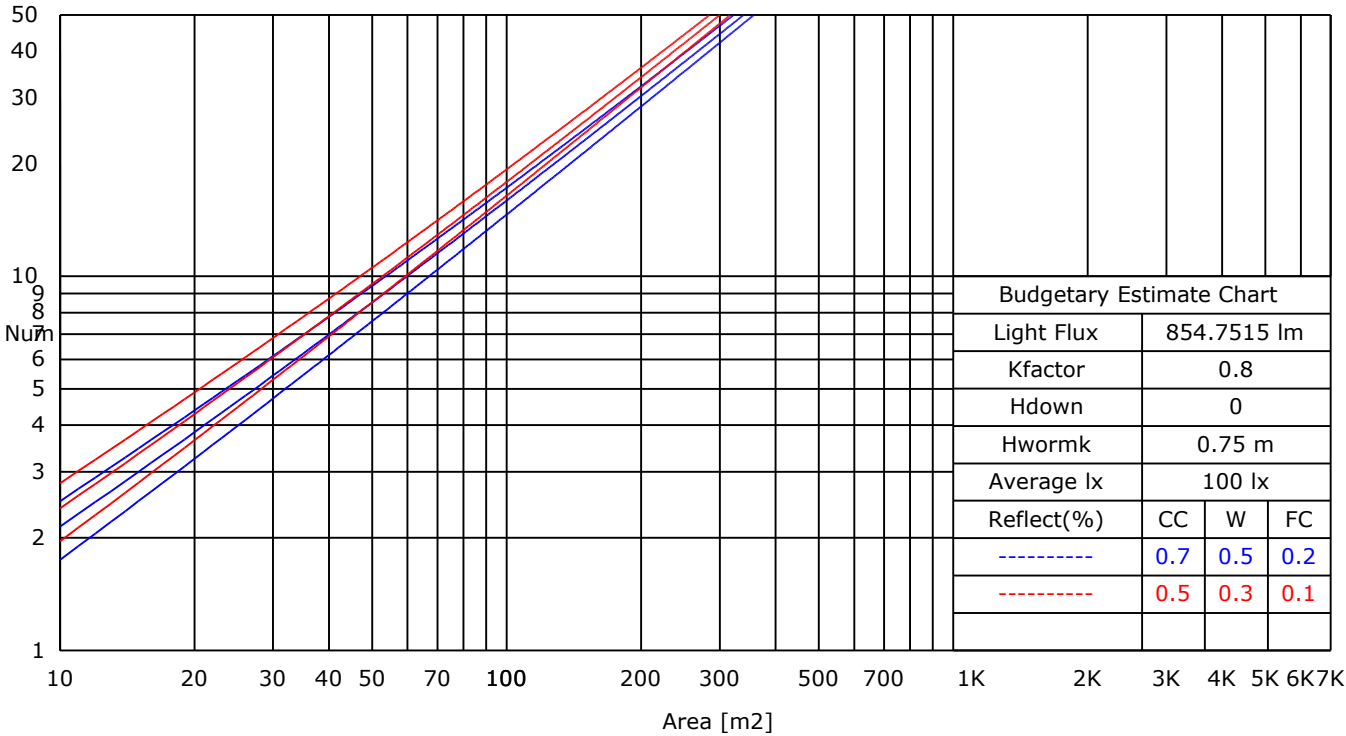
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.06	1.05	1.03	1.05	1.03	1.02	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.88	0.86	0.80
2	1.01	1.00	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.82	0.77
3	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
4	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.82	0.80	0.81	0.78	0.75	0.71
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	0.83	0.81	0.80	0.82	0.80	0.78	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.64	0.61
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	0.59
10	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



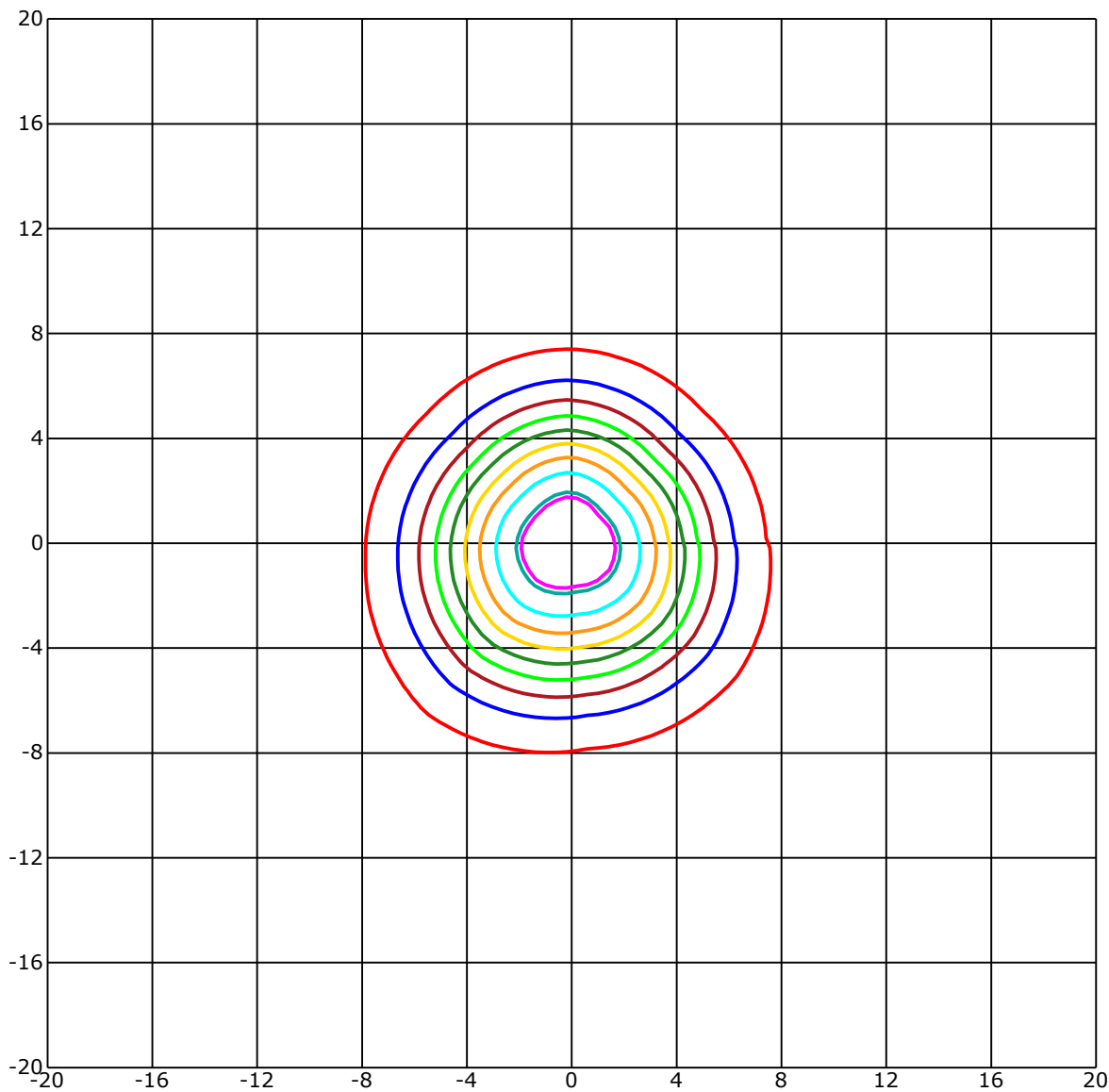
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

- | | |
|----------------|----------------|
| 9.044(92%Emax) | 4.915(50%Emax) |
| 8.848(90%Emax) | 3.932(40%Emax) |
| 7.865(80%Emax) | 2.949(30%Emax) |
| 6.882(70%Emax) | 1.966(20%Emax) |
| 5.899(60%Emax) | 0.983(10%Emax) |

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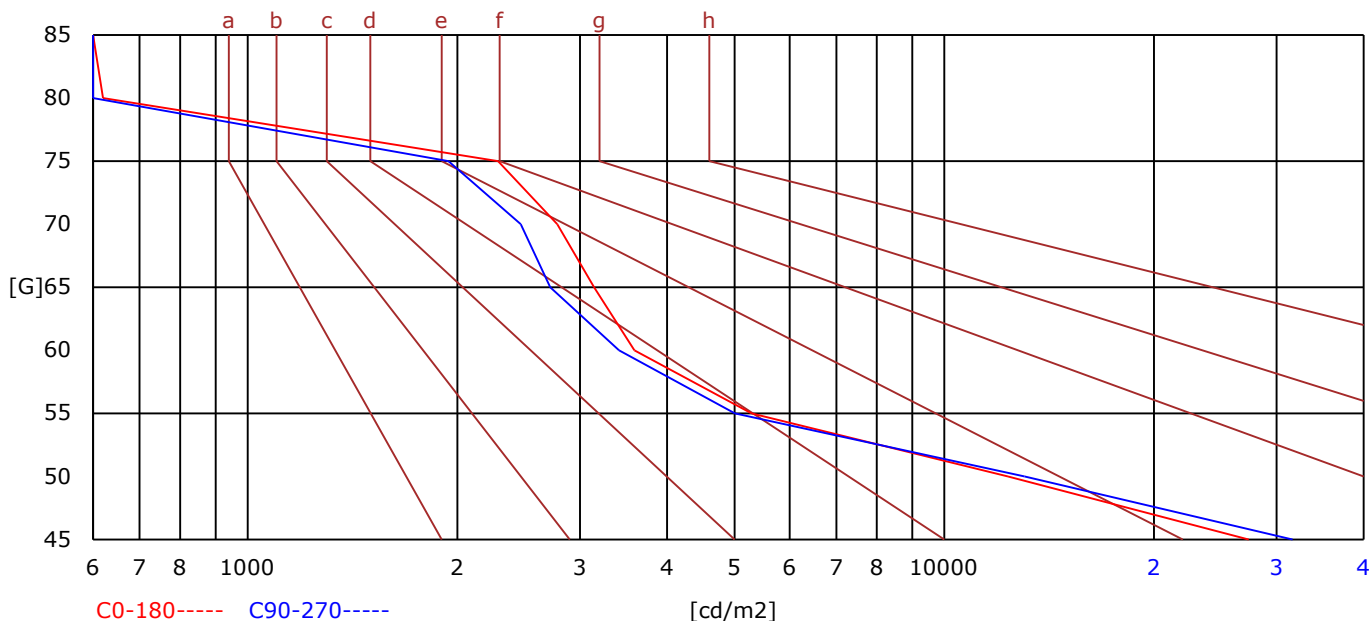
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	27349	12347	5291	3591	3144	2782	2289	620	0
C90	31615	13045	5009	3412	2719	2467	1943	103	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



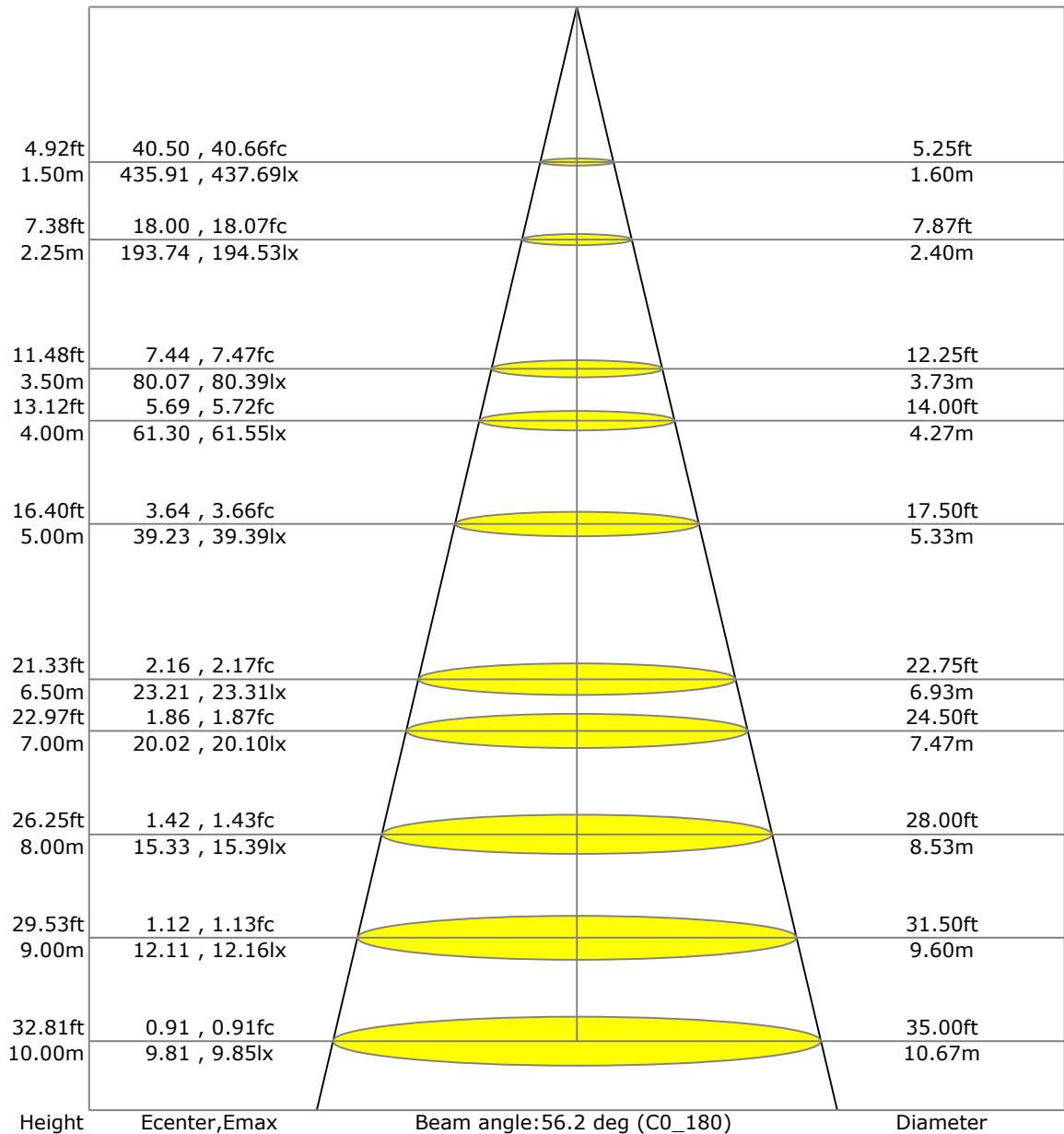
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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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: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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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	15.34	15.39	15.54	15.58	15.82	15.31	15.36	15.51	15.55	15.79
3H	15.32	15.37	15.52	15.56	15.81	15.29	15.34	15.49	15.53	15.78
4H	15.30	15.35	15.51	15.55	15.80	15.27	15.32	15.48	15.52	15.77
6H	15.28	15.33	15.50	15.53	15.79	15.25	15.31	15.47	15.51	15.76
8H	15.27	15.32	15.49	15.53	15.78	15.25	15.30	15.46	15.50	15.75
12H	15.26	15.31	15.48	15.52	15.77	15.24	15.29	15.46	15.49	15.75
4H 2H	15.36	15.41	15.57	15.61	15.85	15.37	15.43	15.58	15.62	15.87
3H	15.33	15.39	15.56	15.59	15.85	15.35	15.40	15.57	15.61	15.86
4H	15.32	15.37	15.55	15.58	15.84	15.33	15.38	15.56	15.59	15.85
6H	15.29	15.34	15.53	15.56	15.83	15.31	15.36	15.55	15.58	15.84
8H	15.28	15.33	15.52	15.55	15.82	15.29	15.34	15.54	15.57	15.83
12H	15.27	15.31	15.52	15.54	15.81	15.28	15.33	15.53	15.56	15.83
8H 4H	15.35	15.40	15.56	15.60	15.85	15.38	15.43	15.60	15.63	15.89
6H	15.27	15.31	15.53	15.55	15.83	15.31	15.35	15.56	15.59	15.86
8H	15.26	15.30	15.52	15.54	15.82	15.29	15.33	15.55	15.58	15.86
12H	15.24	15.28	15.51	15.53	15.81	15.28	15.31	15.54	15.57	15.85
12H 4H	15.29	15.33	15.53	15.56	15.83	15.33	15.37	15.57	15.60	15.87
6H	15.26	15.30	15.52	15.54	15.82	15.30	15.34	15.56	15.58	15.86

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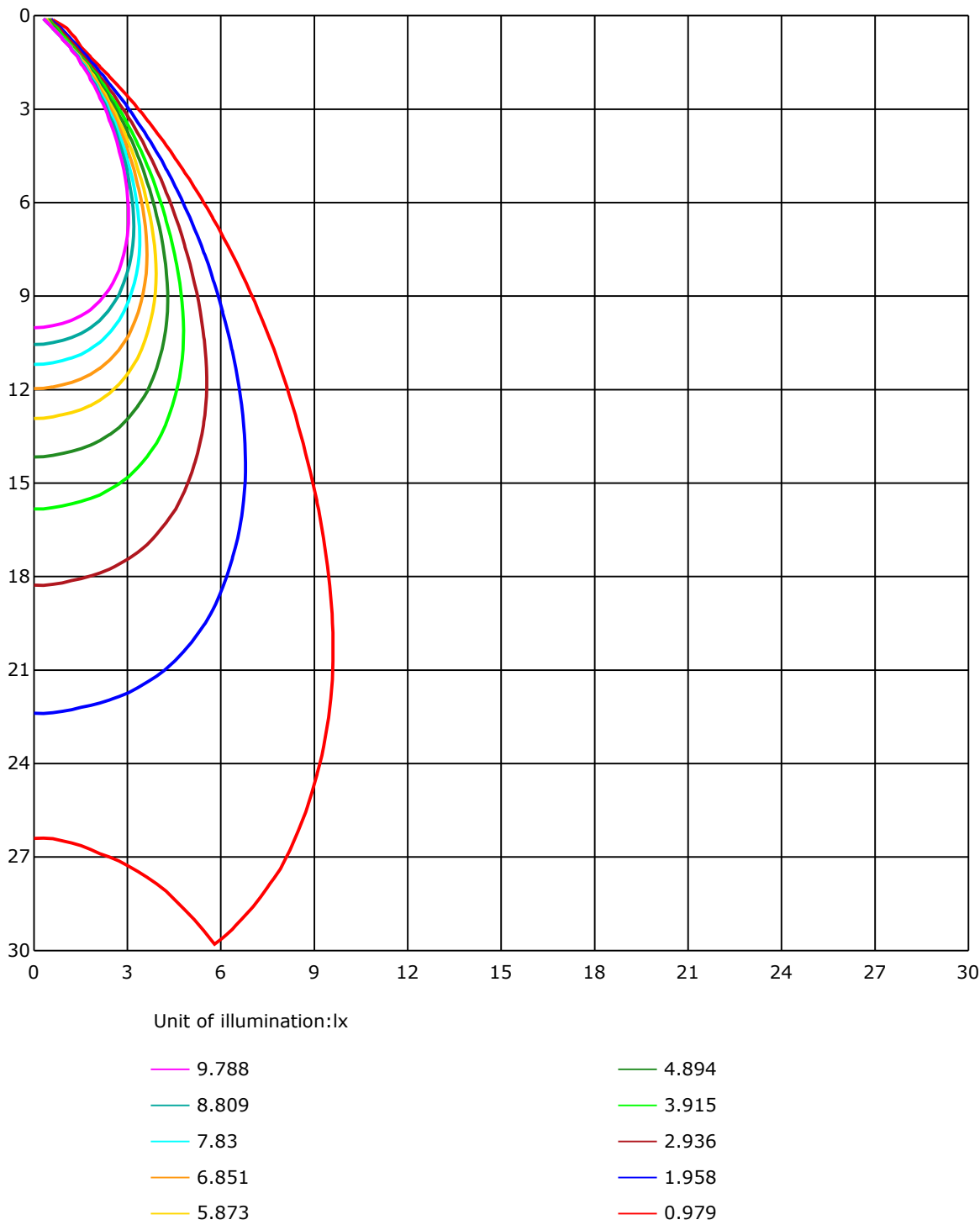
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	980.8	972.81	976.99	979.59	980.8	972.81	976.99	979.59	980.8	
G1	981.74	972.23	977.03	977.97	983.54	977.97	978.02	979.23	981.74	
G2	978.6	971.33	974.56	980.8	984.8	976.81	975.41	981.25	978.6	
G3	975.86	970.43	976.31	980.22	983.72	977.75	973.13	979.54	975.86	
G4	970.43	965.9	977.21	975.95	980.26	975.06	966.48	976.81	970.43	
G5	967.6	959.57	975.28	975.28	977.88	975.73	963.29	974.29	967.6	
G6	962.71	951.44	972.36	965.99	975.86	973.57	958.94	968.1	962.71	
G7	957.19	943.36	969.0	958.4	972.5	970.7	958.18	961.45	957.19	
G8	950.99	933.31	962.85	951.98	971.46	967.51	948.97	957.64	950.99	
G9	940.67	925.63	956.11	944.35	966.21	964.19	943.05	949.69	940.67	
G10	930.97	908.48	946.06	935.15	961.81	958.94	932.63	942.96	930.97	
G11	919.17	893.94	935.1	923.84	951.94	953.46	922.67	935.46	919.17	
G12	906.19	876.7	921.64	912.88	942.2	945.34	912.61	925.09	906.19	
G13	887.7	858.97	906.1	897.26	932.99	938.43	904.58	912.75	887.7	
G14	871.05	835.72	890.03	881.19	919.89	928.33	889.32	902.29	871.05	
G15	849.27	813.54	873.51	859.73	904.58	919.93	876.66	888.73	849.27	
G16	830.24	786.65	853.09	839.71	890.48	906.1	861.93	872.08	830.24	
G17	804.79	759.45	831.18	814.08	870.33	893.98	844.11	852.64	804.79	
G18	777.54	729.6	804.29	788.49	850.93	878.77	822.03	833.11	777.54	
G19	749.89	697.9	776.28	757.34	827.23	860.0	798.46	812.15	749.89	
G20	718.96	663.16	747.42	729.78	803.17	839.85	773.95	787.86	718.96	
G21	689.96	628.5	715.05	698.35	776.01	821.44	751.41	764.57	689.96	
G22	658.49	592.55	682.06	667.6	748.9	794.69	721.7	736.69	658.49	
G23	626.22	557.85	646.24	633.62	717.43	770.67	693.06	706.34	626.22	
G24	593.09	520.63	609.88	597.17	688.97	739.43	662.08	675.64	593.09	
G25	556.95	483.91	573.74	559.51	651.76	711.78	630.52	644.89	556.95	
G26	521.71	448.68	534.77	521.71	617.19	680.98	598.29	611.31	521.71	
G27	484.0	411.42	496.3	483.91	579.8	650.95	565.34	575.62	484.0	
G28	447.82	376.27	459.09	446.03	545.41	617.19	531.32	540.48	447.82	
G29	410.97	343.9	422.95	409.67	506.22	583.93	495.32	504.65	410.97	
G30	376.54	312.79	382.91	375.64	469.15	551.16	458.87	469.73	376.54	
G31	342.2	285.01	347.4	342.2	429.42	512.6	419.63	432.83	342.2	
G32	309.56	258.25	315.31	310.01	395.26	475.56	383.32	398.98	309.56	
G33	279.93	233.11	284.56	280.2	359.88	439.7	350.68	367.65	279.93	
G34	252.46	210.22	254.3	252.51	326.66	404.01	316.43	338.16	252.46	
G35	227.05	188.67	225.98	226.47	295.24	371.55	286.62	308.71	227.05	
G36	202.77	167.89	199.85	202.27	265.12	340.13	257.71	282.67	202.77	

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: 6.7 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	179.74	149.66	177.18	179.29	236.26	311.31	230.96	255.6	179.74	
G38	158.28	132.07	155.36	159.05	209.19	283.17	204.97	230.11	158.28	
G39	139.02	116.18	135.43	138.84	184.23	257.26	181.8	206.99	139.02	
G40	121.2	100.51	116.85	121.11	161.78	233.43	159.54	185.62	121.2	
G41	104.95	86.77	99.21	105.18	139.74	209.64	139.92	166.0	104.95	
G42	90.5	75.55	83.67	91.49	119.95	186.61	120.71	148.54	90.5	
G43	76.63	66.03	70.03	78.69	102.21	165.87	103.34	131.53	76.63	
G44	64.28	56.56	57.95	66.84	86.28	146.75	87.94	116.0	64.28	
G45	54.09	48.35	46.73	55.89	71.6	129.33	75.15	101.0	54.09	
G46	44.93	40.36	37.39	46.6	58.81	113.53	63.16	88.16	44.93	
G47	36.99	33.76	30.21	38.74	46.73	98.76	52.39	76.67	36.99	
G48	30.08	28.33	24.29	31.83	37.26	85.92	41.97	66.62	30.08	
G49	23.84	23.84	19.66	25.68	29.45	75.01	33.4	57.32	23.84	
G50	18.54	19.84	15.85	20.96	22.8	64.37	25.9	49.11	18.54	
G51	14.32	16.43	13.2	16.79	17.91	55.04	19.8	41.66	14.32	
G52	11.04	13.42	11.63	13.38	14.59	46.24	14.68	35.42	11.04	
G53	8.71	11.0	10.68	10.73	12.21	38.87	10.86	30.3	8.71	
G54	7.32	9.2	9.88	8.71	10.91	32.59	8.04	26.08	7.32	
G55	6.33	7.59	9.34	7.18	9.97	27.43	6.51	22.4	6.33	
G56	6.02	6.46	8.8	6.11	9.34	22.94	5.61	19.26	6.02	
G57	5.52	5.79	8.35	5.39	8.84	19.12	5.21	16.65	5.52	
G58	5.21	5.21	7.95	4.98	8.44	16.03	4.8	14.32	5.21	
G59	5.03	4.85	7.54	4.49	7.95	13.38	4.67	12.43	5.03	
G60	4.8	4.49	7.0	4.26	7.59	11.31	4.35	11.09	4.8	
G61	4.58	4.53	6.6	3.95	7.05	9.92	4.17	9.74	4.58	
G62	4.35	4.13	6.06	3.86	6.6	8.98	3.95	8.89	4.35	
G63	3.91	3.91	5.88	3.5	6.15	8.48	3.77	8.48	3.91	
G64	3.77	3.64	5.52	3.23	5.93	7.95	3.37	8.08	3.77	
G65	3.5	3.32	5.34	2.87	5.57	7.63	3.05	7.59	3.5	
G66	3.5	3.1	4.98	2.56	5.39	7.05	3.01	7.27	3.5	
G67	3.23	2.92	4.85	2.38	5.07	6.73	2.83	6.78	3.23	
G68	3.32	2.74	4.62	2.33	5.07	6.37	2.65	6.6	3.32	
G69	2.96	2.56	4.49	2.15	4.67	5.88	2.6	6.02	2.96	
G70	2.87	2.38	4.31	2.11	4.44	5.43	2.38	5.7	2.87	
G71	2.87	2.11	4.0	1.75	4.13	5.16	2.29	5.34	2.87	
G72	2.6	1.84	3.73	1.75	3.91	4.89	2.11	5.3	2.6	
G73	2.33	1.89	3.55	1.53	3.68	4.71	1.93	5.03	2.33	

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/3 14:50:34

G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: