

Report No.:

Test Time: 2024/8/6 18:01:58

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-14.1W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

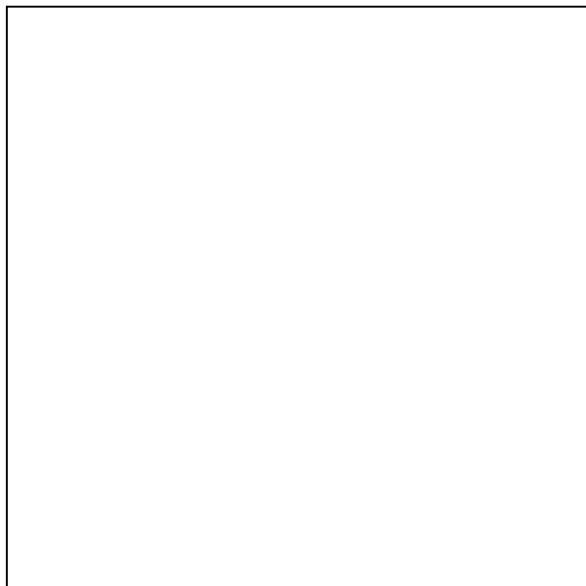
Voltage(V): 219.90 V
Current(A): 0.0670 A
Power(W): 14.08 W
Power Factor: 0.9440
Lamp Luminous Flux: 1089.32

Photometric Results

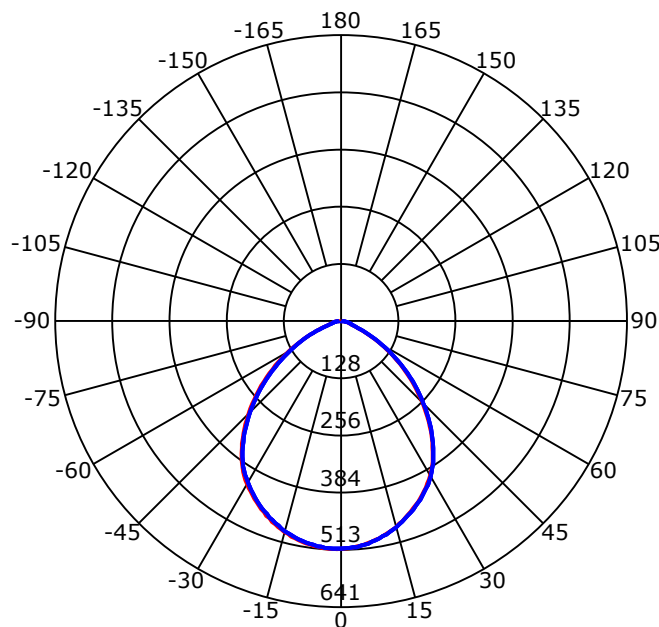
CIE Class: Direct
Luminaire Luminous Flux: 1089.316 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 77.37 lm/W
Beam Angle(50%) C0-180,C90-270: 93.8,93.7
Field Angle(10%) C0-180,C90-270: 135.6,135.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 512.60 cd
Max.Intensity Angle: C=225 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 510.53 cd
Effective Luminous Flux: 1044.43 lm
ERP(ϕ use)(120deg): 979.88 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 93.8 deg,93.7 deg

C0-180 — C90-270 —

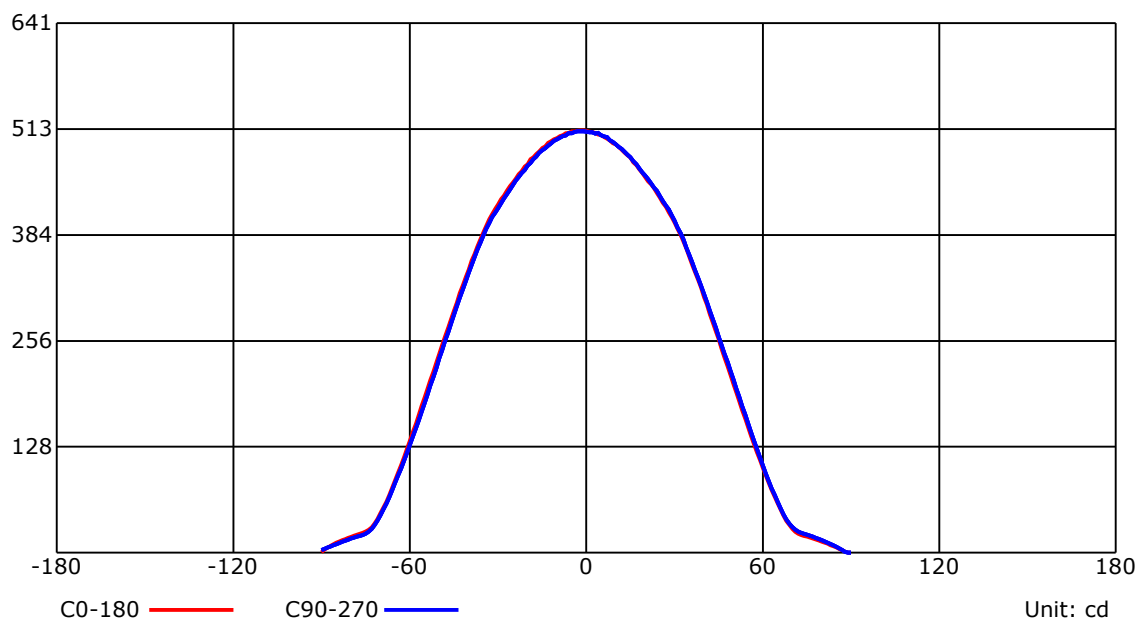
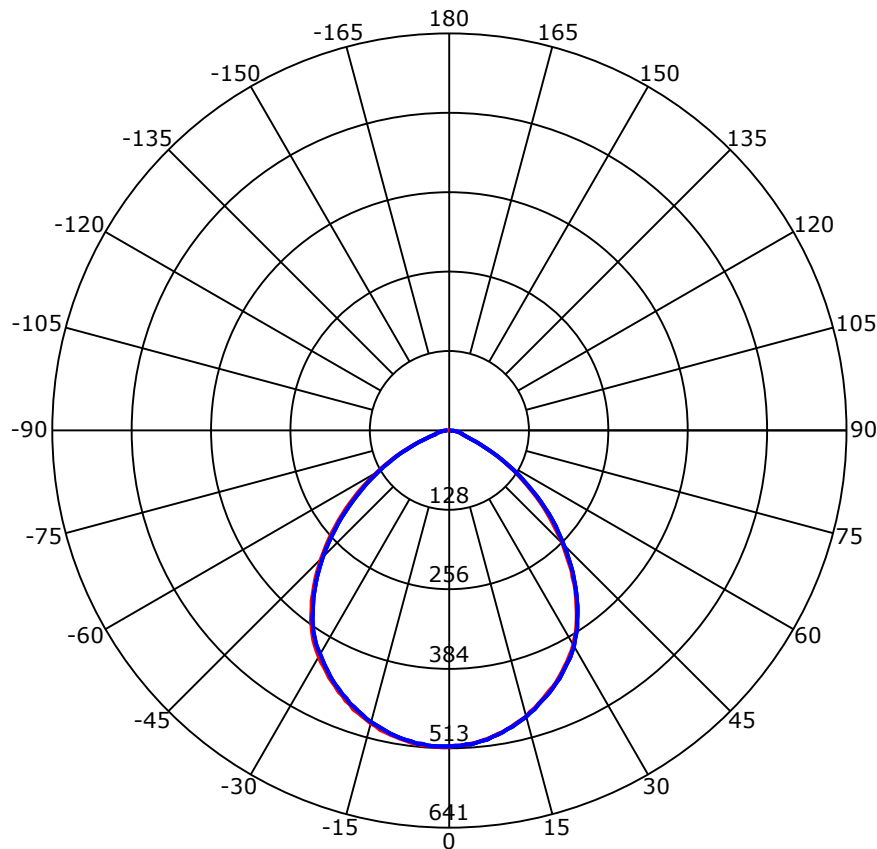
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 18:01:58

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 Intensity Distribution Curve



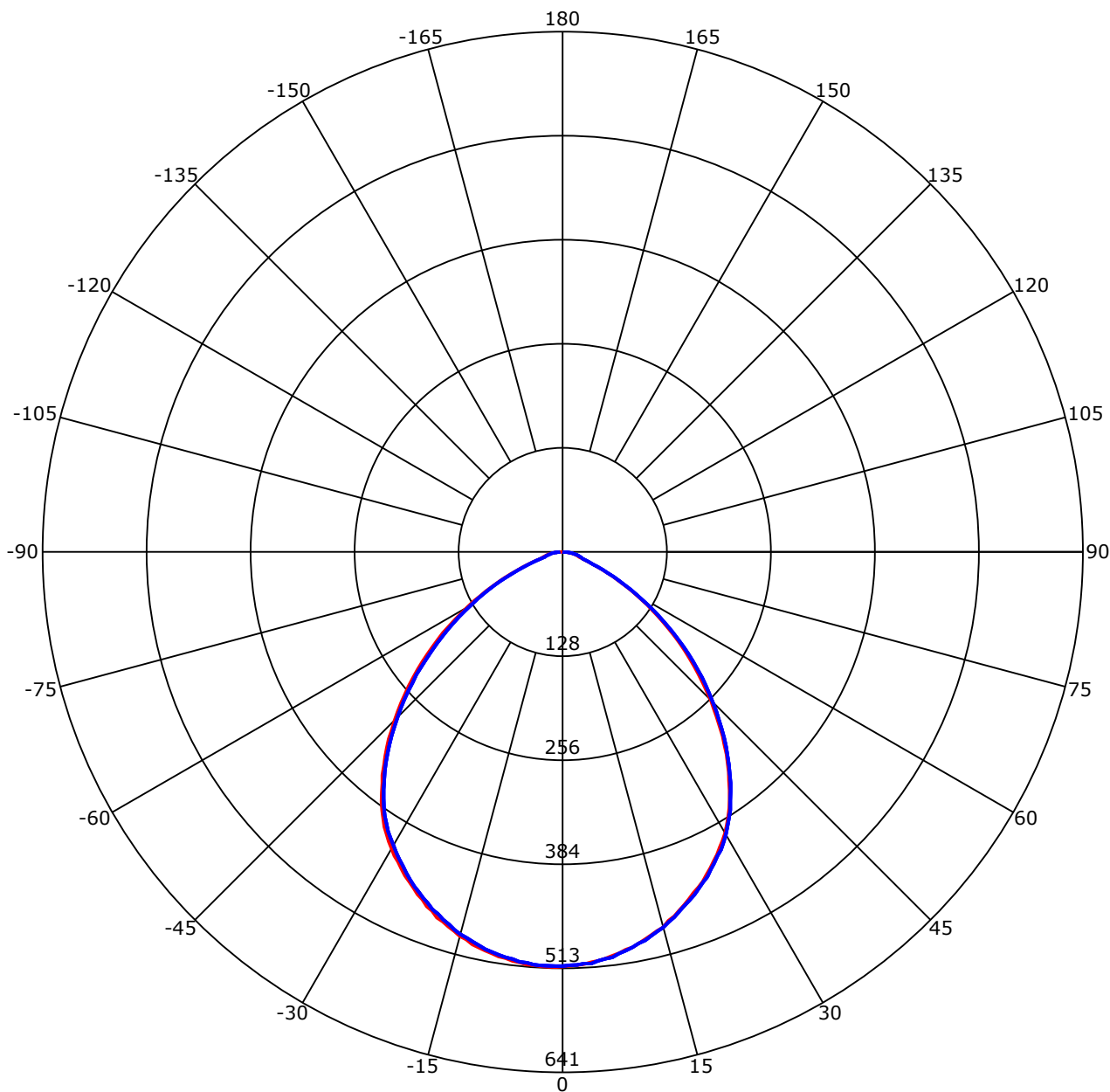
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 18:01:58

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 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: 2024/8/6 18:01:58

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

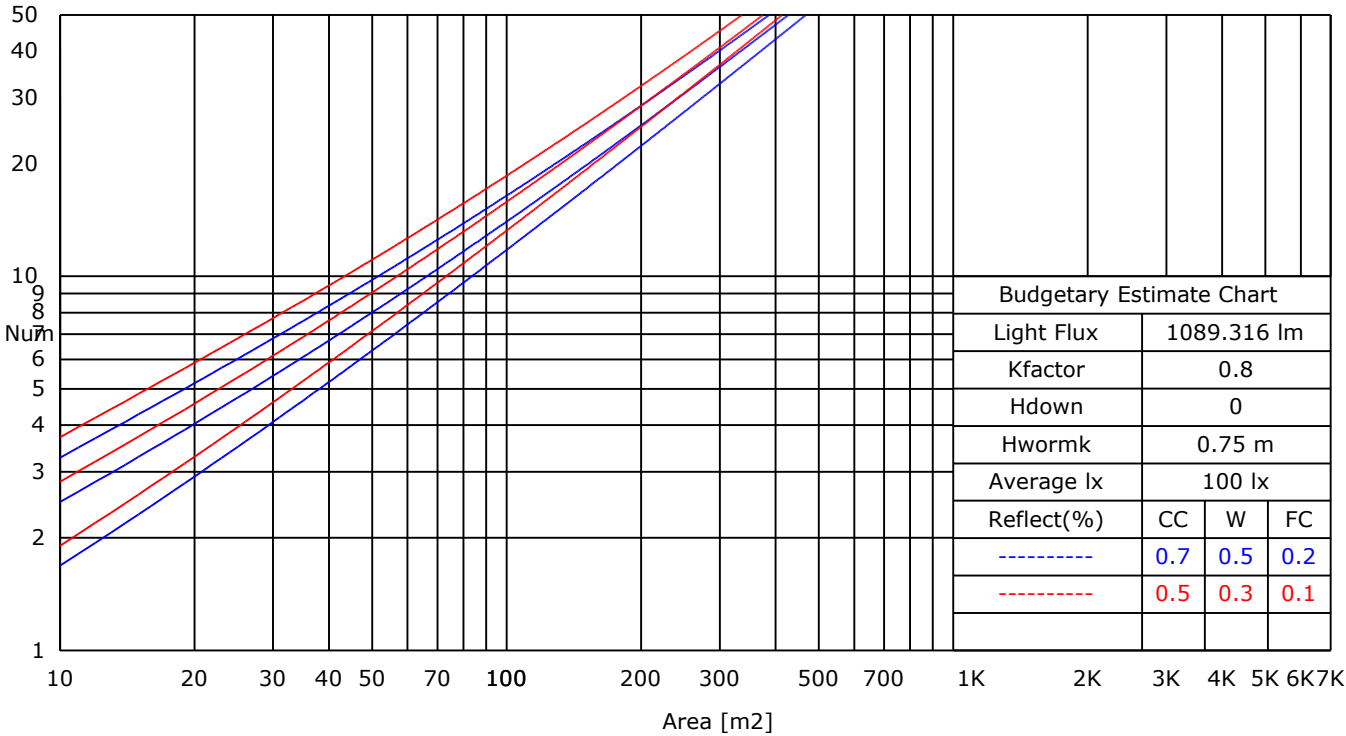
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.99	0.97	0.95	0.98	0.95	0.94	0.94	0.92	0.90	0.90	0.87	0.85	0.85	0.82	0.79	0.74
3	0.90	0.88	0.87	0.89	0.87	0.85	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.68
4	0.82	0.80	0.79	0.82	0.79	0.77	0.80	0.77	0.74	0.78	0.73	0.70	0.74	0.70	0.66	0.62
5	0.76	0.74	0.72	0.75	0.73	0.71	0.74	0.70	0.68	0.72	0.68	0.64	0.69	0.65	0.61	0.57
6	0.70	0.68	0.67	0.70	0.67	0.65	0.69	0.65	0.62	0.67	0.63	0.59	0.65	0.60	0.56	0.52
7	0.65	0.63	0.62	0.65	0.62	0.60	0.64	0.60	0.58	0.63	0.58	0.55	0.61	0.56	0.52	0.48
8	0.61	0.59	0.57	0.61	0.58	0.56	0.60	0.56	0.54	0.59	0.54	0.51	0.58	0.52	0.48	0.45
9	0.57	0.55	0.54	0.57	0.54	0.52	0.56	0.53	0.50	0.56	0.51	0.48	0.55	0.49	0.45	0.42
10	0.53	0.51	0.50	0.53	0.51	0.49	0.53	0.49	0.47	0.53	0.48	0.45	0.52	0.46	0.42	0.39

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



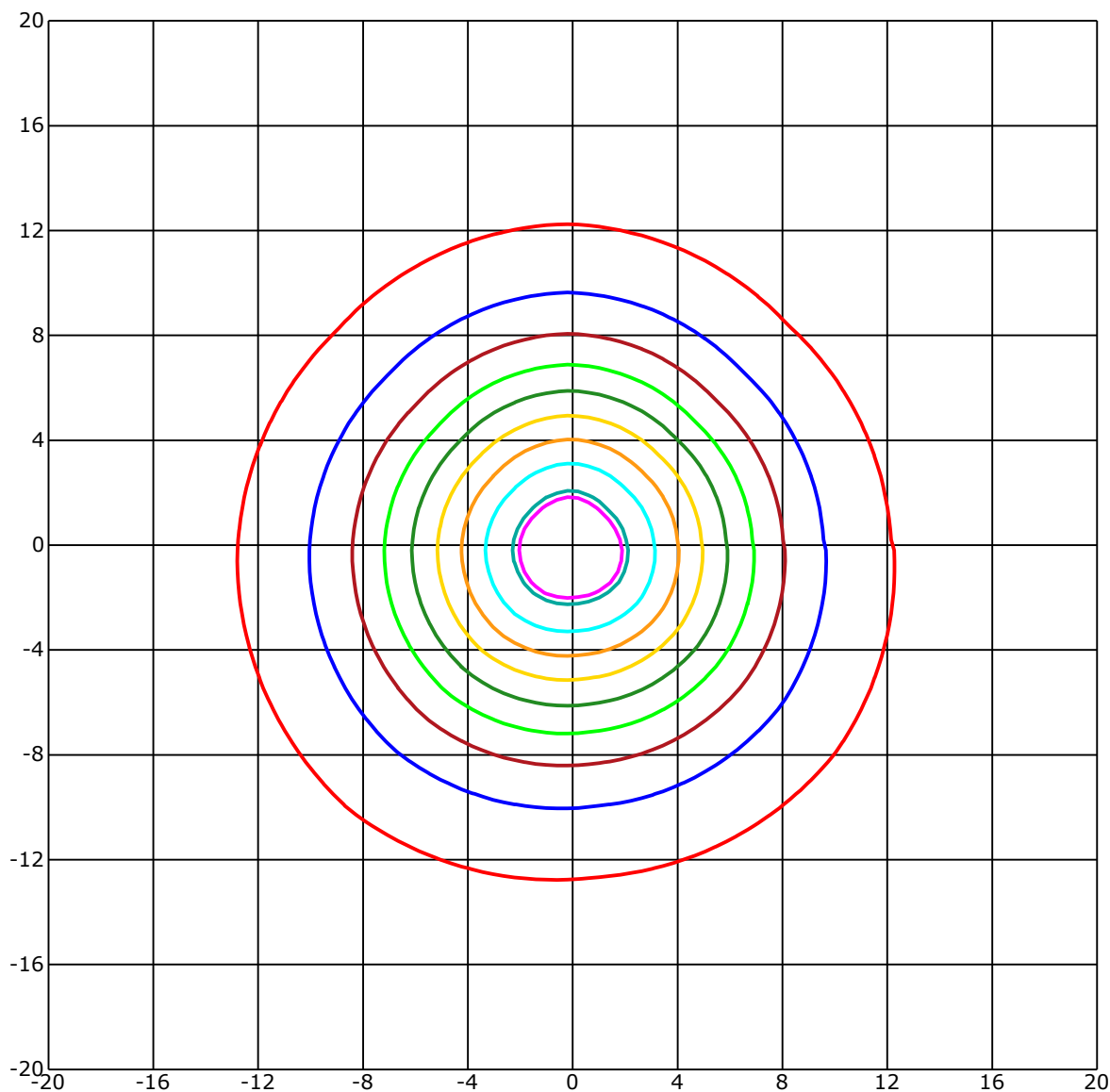
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 18:01:58

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)

4.701(92%Emax)	2.555(50%Emax)
4.599(90%Emax)	2.044(40%Emax)
4.088(80%Emax)	1.533(30%Emax)
3.577(70%Emax)	1.022(20%Emax)
3.066(60%Emax)	0.511(10%Emax)

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Operators: QC01
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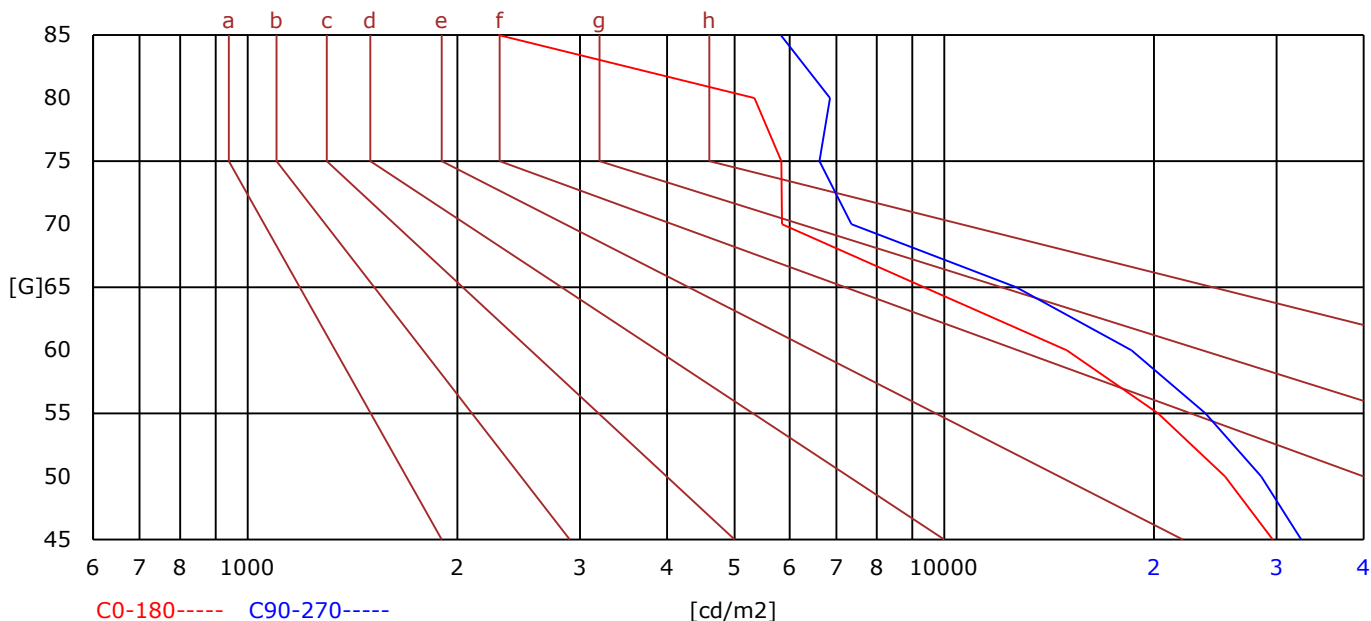
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	29606	25297	20283	14990	9359	5852	5835	5338	2292
C90	32533	28504	23710	18578	12687	7359	6622	6856	5822
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



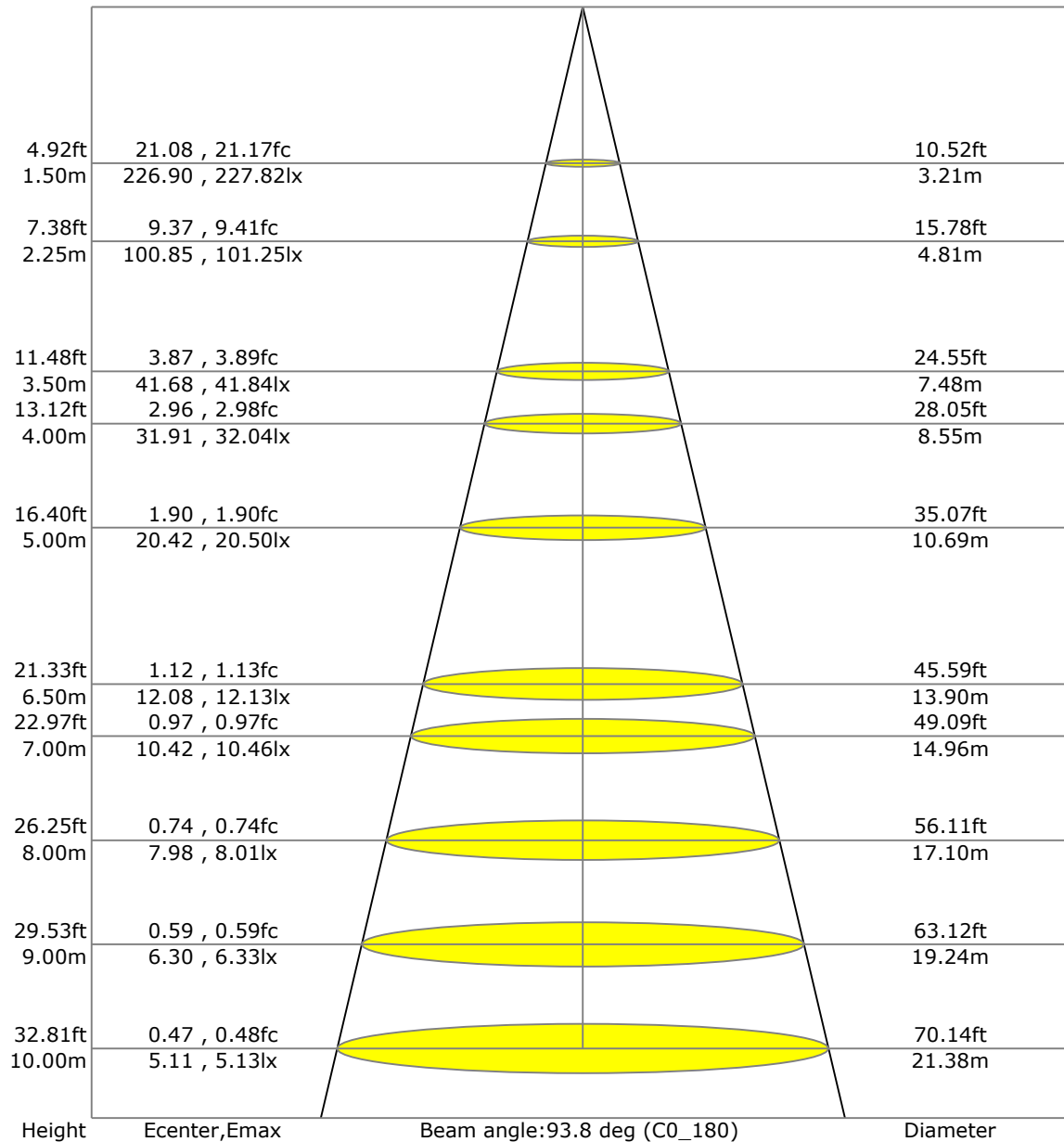
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/8/6 18:01:58

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	18.37	18.44	18.57	18.63	18.87	18.42	18.49	18.62	18.68	18.92
3H	18.36	18.43	18.57	18.62	18.87	18.41	18.48	18.62	18.67	18.92
4H	18.34	18.41	18.55	18.60	18.85	18.39	18.45	18.60	18.65	18.90
6H	18.32	18.38	18.53	18.58	18.83	18.36	18.43	18.58	18.63	18.88
8H	18.30	18.36	18.52	18.57	18.82	18.35	18.41	18.57	18.62	18.87
12H	18.29	18.35	18.51	18.56	18.81	18.34	18.40	18.56	18.60	18.86
4H 2H	18.86	18.92	19.07	19.12	19.37	18.94	19.00	19.15	19.20	19.45
3H	18.88	18.94	19.10	19.15	19.40	18.96	19.02	19.18	19.23	19.48
4H	18.87	18.93	19.10	19.14	19.40	18.95	19.01	19.18	19.22	19.48
6H	18.85	18.90	19.09	19.12	19.39	18.93	18.98	19.16	19.20	19.47
8H	18.83	18.89	19.08	19.11	19.38	18.91	18.96	19.15	19.19	19.46
12H	18.82	18.87	19.06	19.10	19.37	18.89	18.94	19.14	19.17	19.44
8H 4H	18.95	19.01	19.17	19.21	19.47	19.05	19.11	19.27	19.32	19.57
6H	19.01	19.05	19.26	19.29	19.56	19.11	19.16	19.37	19.40	19.67
8H	18.99	19.03	19.25	19.28	19.56	19.10	19.14	19.36	19.39	19.66
12H	18.97	19.01	19.24	19.27	19.55	19.08	19.12	19.35	19.37	19.65
12H 4H	19.04	19.09	19.29	19.32	19.59	19.16	19.21	19.41	19.44	19.71
6H	19.04	19.08	19.30	19.32	19.60	19.15	19.20	19.41	19.44	19.72

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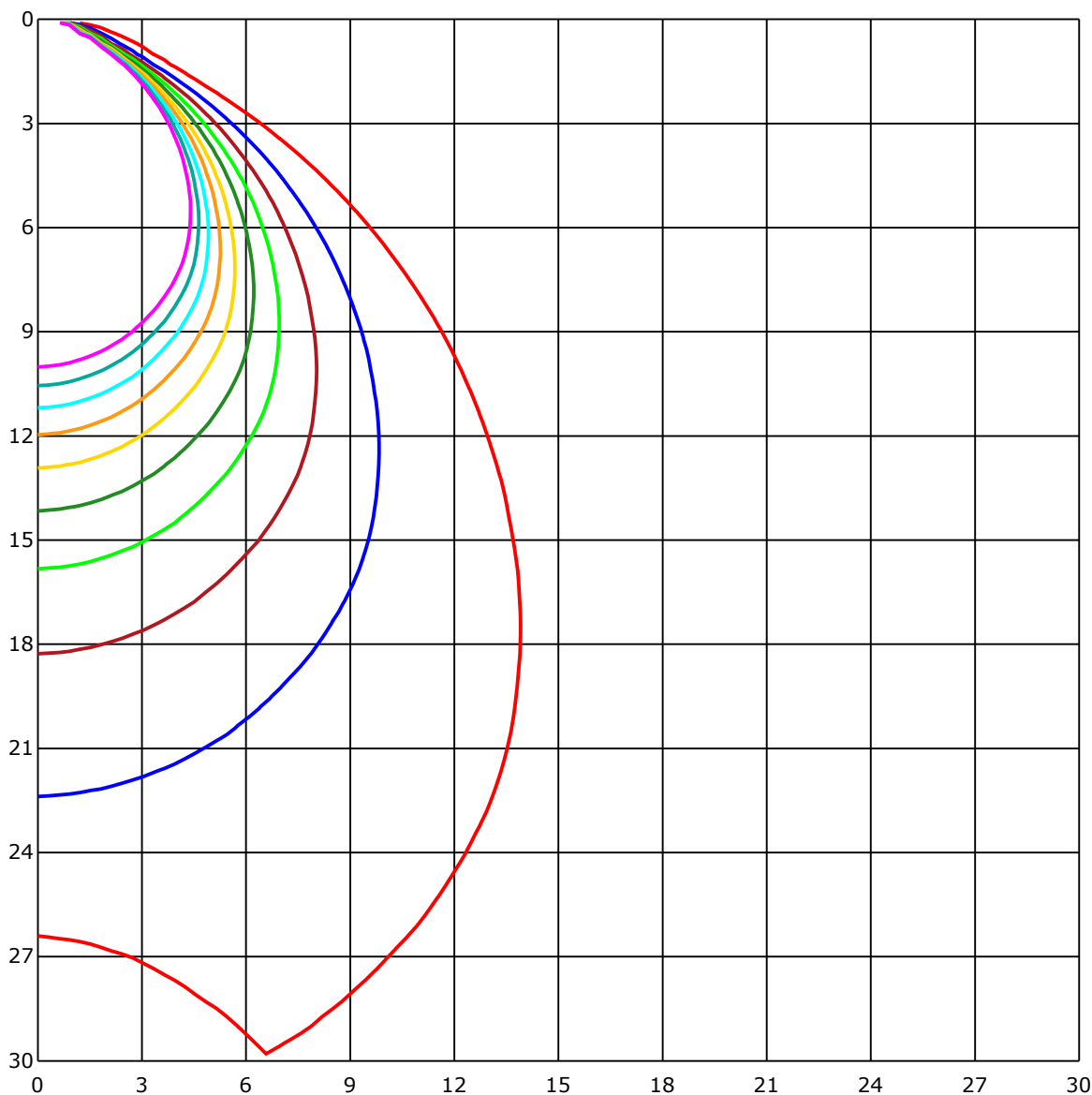
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
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SPACE ISOLX DIAGRAM



5.095	2.548
4.586	2.038
4.076	1.529
3.567	1.019
3.057	0.51

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	510.53	508.33	509.68	509.77	510.53	508.33	509.68	509.77	510.53	
G1	509.46	507.17	508.74	510.94	511.21	509.32	509.95	509.91	509.46	
G2	509.1	506.04	508.69	509.32	511.03	510.04	509.91	510.31	509.1	
G3	508.02	503.26	507.35	508.2	510.85	510.04	509.95	510.31	508.02	
G4	506.22	501.78	507.98	505.51	510.04	510.89	509.32	508.69	506.22	
G5	505.37	499.18	505.15	504.65	509.95	512.6	507.66	509.1	505.37	
G6	503.13	499.04	503.58	502.5	508.11	509.77	507.57	506.94	503.13	
G7	500.84	495.05	502.77	501.15	507.57	508.74	505.06	507.12	500.84	
G8	498.77	492.17	499.09	498.46	505.24	508.47	504.11	504.29	498.77	
G9	495.72	488.4	496.98	495.32	504.2	506.0	502.32	504.47	495.72	
G10	494.1	486.07	494.28	493.66	501.96	504.47	500.25	502.27	494.1	
G11	490.83	482.3	490.83	490.87	500.21	503.22	498.37	499.27	490.83	
G12	487.33	480.19	488.72	487.82	497.83	502.95	495.18	496.57	487.33	
G13	483.96	475.07	485.13	484.09	495.9	498.73	492.53	493.34	483.96	
G14	480.77	471.84	481.45	480.19	491.64	497.43	489.57	489.66	480.77	
G15	478.08	469.1	478.48	477.18	489.79	494.42	487.24	487.01	478.08	
G16	472.24	463.35	473.9	473.19	485.58	493.52	483.82	483.47	472.24	
G17	468.92	458.51	470.13	469.5	482.43	489.08	479.29	481.85	468.92	
G18	463.85	454.69	464.97	464.16	478.66	485.58	476.1	476.19	463.85	
G19	459.54	448.63	460.44	460.08	476.1	481.89	471.61	474.13	459.54	
G20	454.51	444.37	456.49	455.41	470.18	478.48	468.61	468.7	454.51	
G21	449.62	438.08	452.22	450.25	467.44	475.34	463.13	464.52	449.62	
G22	445.49	434.27	446.92	445.26	461.6	471.61	459.31	459.72	445.49	
G23	441.04	427.44	441.85	441.18	458.06	466.0	454.51	455.32	441.04	
G24	435.03	423.27	437.99	435.3	452.45	462.37	450.16	450.11	435.03	
G25	429.73	417.21	431.48	429.87	447.91	457.47	444.9	446.43	429.73	
G26	423.49	410.7	425.96	424.3	443.6	453.16	439.47	440.28	423.49	
G27	418.37	404.64	419.99	418.96	437.77	449.35	433.73	435.79	418.37	
G28	411.78	398.85	415.32	412.4	432.11	443.38	428.61	429.82	411.78	
G29	406.16	390.99	408.45	406.12	427.67	437.95	422.86	425.65	406.16	
G30	399.57	382.55	401.99	400.19	421.52	433.23	416.94	419.09	399.57	
G31	392.16	374.29	393.86	392.07	416.09	427.4	411.33	414.07	392.16	
G32	384.21	367.07	386.64	383.54	409.44	421.92	405.99	407.56	384.21	
G33	376.27	356.61	379.14	375.42	403.38	415.55	398.62	400.15	376.27	
G34	367.6	348.26	369.04	368.19	395.48	410.07	392.02	393.33	367.6	
G35	358.13	337.84	360.29	358.72	387.94	402.8	383.99	384.75	358.13	
G36	348.35	328.77	351.58	348.93	379.81	395.53	375.33	375.91	348.35	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	339.46	318.36	341.97	340.49	370.57	388.3	366.44	367.51	339.46	
G38	329.81	308.89	332.28	330.26	361.01	380.13	357.37	357.95	329.81	
G39	320.29	299.46	322.67	320.11	353.24	370.79	348.08	350.01	320.29	
G40	309.16	287.61	313.29	309.92	342.65	362.44	338.65	339.95	309.16	
G41	300.18	277.42	303.32	299.42	333.62	352.43	328.59	330.39	300.18	
G42	288.6	266.96	292.82	289.27	323.97	343.41	318.81	320.92	288.6	
G43	277.91	256.05	282.22	279.35	314.27	333.71	308.57	311.22	277.91	
G44	267.63	245.77	272.53	268.04	302.83	323.75	298.25	300.09	267.63	
G45	258.07	235.22	261.21	258.48	293.13	314.27	287.79	289.76	258.07	
G46	246.4	225.08	251.07	247.34	282.81	304.08	277.33	280.29	246.4	
G47	235.9	214.48	240.66	236.97	272.44	292.95	266.56	270.1	235.9	
G48	225.03	204.11	230.78	225.84	261.66	282.22	256.05	258.75	225.03	
G49	214.75	193.43	219.78	215.47	251.7	272.53	244.83	248.96	214.75	
G50	203.89	182.7	209.77	205.87	240.66	261.98	235.18	237.92	203.89	
G51	193.84	171.75	198.59	194.69	230.29	251.38	223.33	227.82	193.84	
G52	183.33	161.69	188.58	183.91	219.51	240.92	212.73	216.86	183.33	
G53	172.51	151.82	177.5	173.95	209.1	230.42	202.18	206.54	172.51	
G54	162.01	141.18	167.22	163.09	198.1	219.56	191.19	195.81	162.01	
G55	151.59	130.72	156.35	152.81	187.73	208.07	180.5	185.35	151.59	
G56	140.95	120.89	145.8	143.2	177.85	197.61	170.45	174.8	140.95	
G57	131.57	111.1	135.66	133.5	166.5	186.56	160.21	164.48	131.57	
G58	121.92	101.9	125.87	123.09	155.81	176.1	150.43	153.79	121.92	
G59	112.09	92.88	115.28	113.84	145.8	165.46	139.92	143.87	112.09	
G60	102.44	84.21	105.4	104.37	135.34	155.01	130.32	133.23	102.44	
G61	93.42	75.19	95.89	94.72	125.65	145.13	120.62	123.9	93.42	
G62	84.57	66.89	86.82	85.74	115.41	134.45	111.46	113.84	84.57	
G63	76.04	58.99	77.88	77.03	106.16	124.61	102.17	104.37	76.04	
G64	67.51	51.8	69.85	68.37	96.65	114.92	93.19	94.85	67.51	
G65	59.79	44.44	61.54	60.24	87.54	105.09	84.44	85.87	59.79	
G66	52.3	38.29	54.05	52.48	78.69	95.35	75.73	76.81	52.3	
G67	44.89	32.81	46.51	45.07	69.98	86.5	67.11	68.68	44.89	
G68	38.47	28.1	40.49	38.87	61.86	77.61	59.21	61.01	38.47	
G69	33.44	24.73	35.15	33.22	54.45	69.09	52.16	53.69	33.44	
G70	28.68	22.49	31.02	28.28	47.63	61.45	44.98	46.46	28.68	
G71	25.18	20.92	27.83	25.09	40.85	53.87	38.78	40.49	25.18	
G72	22.98	20.25	25.68	22.94	35.37	46.55	33.26	35.19	22.98	
G73	21.32	18.9	24.2	21.23	30.88	40.27	28.59	30.61	21.32	

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G Range: 0 - 90 Deg
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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: 2024/8/6 18:01:58

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