

Report No.:

Test Time: 2024/12/24 18:05:37

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL225CT090-15W
Lamp Type:
Luminous Width: 78 mm
Luminous Length: 78 mm
Luminous Height: 40 mm

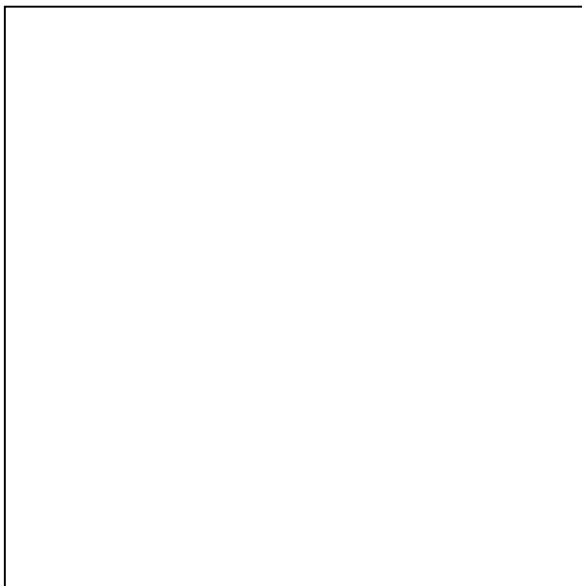
Voltage(V): 220.00 V
Current(A): 0.0710 A
Power(W): 14.99 W
Power Factor: 0.9480
Lamp Luminous Flux: 1469.38

Photometric Results

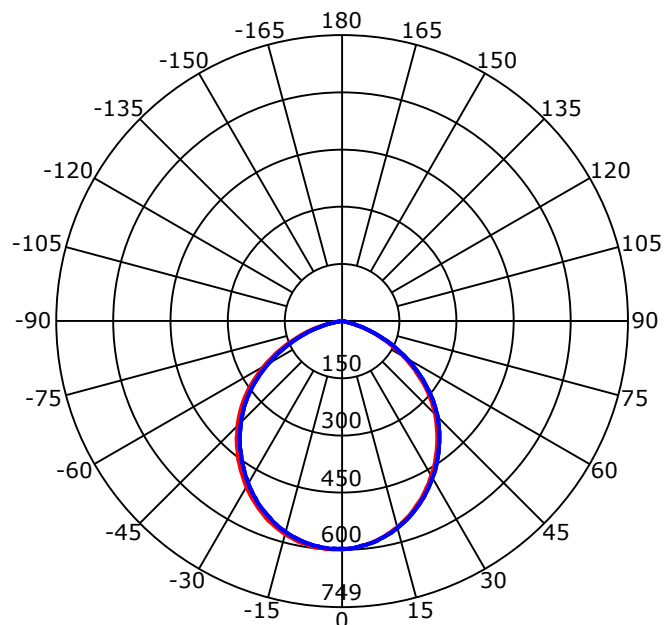
CIE Class: Direct
Luminaire Luminous Flux: 1469.375 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.02 lm/W
Beam Angle(50%) C0-180,C90-270: 103.7,103.6
Field Angle(10%) C0-180,C90-270: 148.5,148.0
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 599.56 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 599.51 cd
Effective Luminous Flux: 1439.89 lm
ERP(ϕ use)(120deg): 1249.00 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 103.7 deg,103.6 deg

C0-180 — C90-270 —

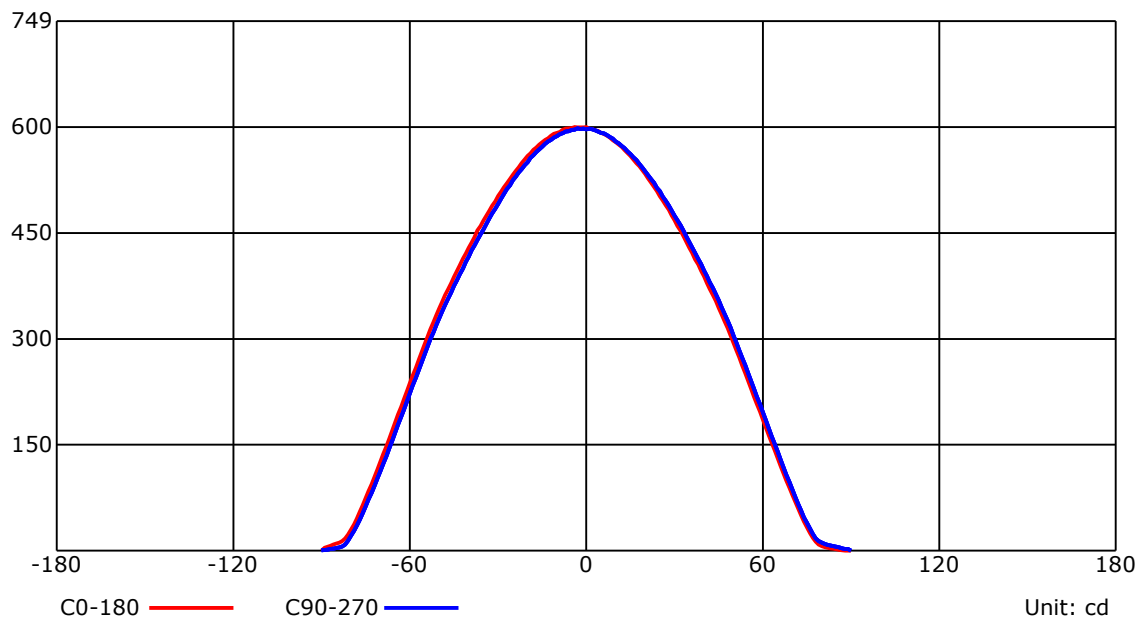
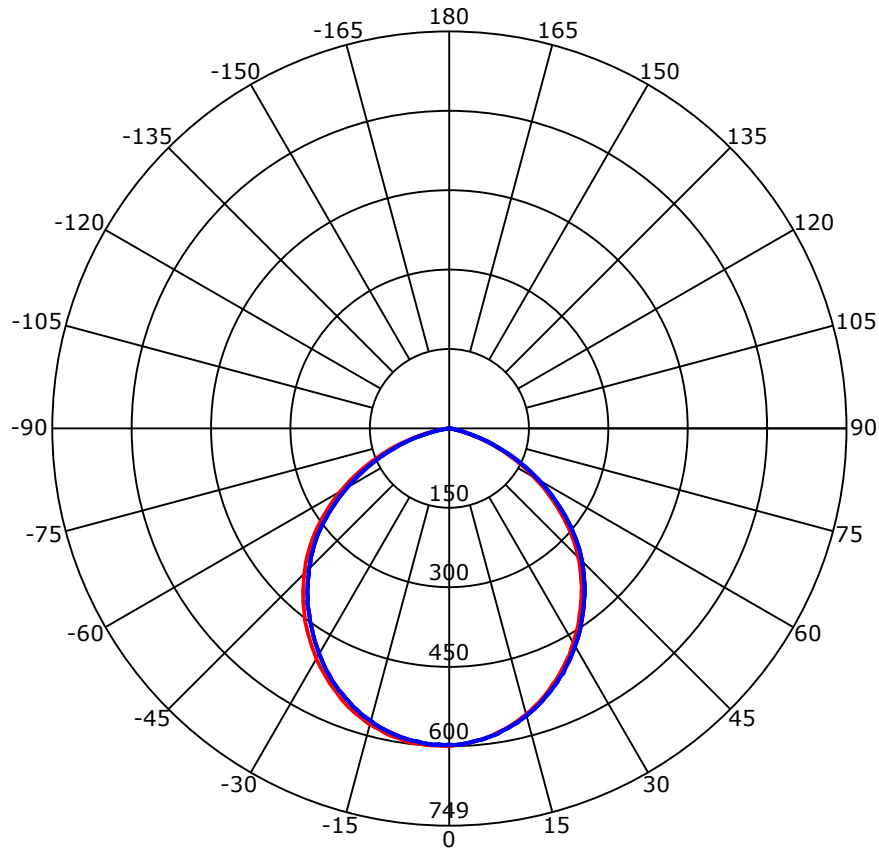
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

Luminous Intensity Distribution Curve



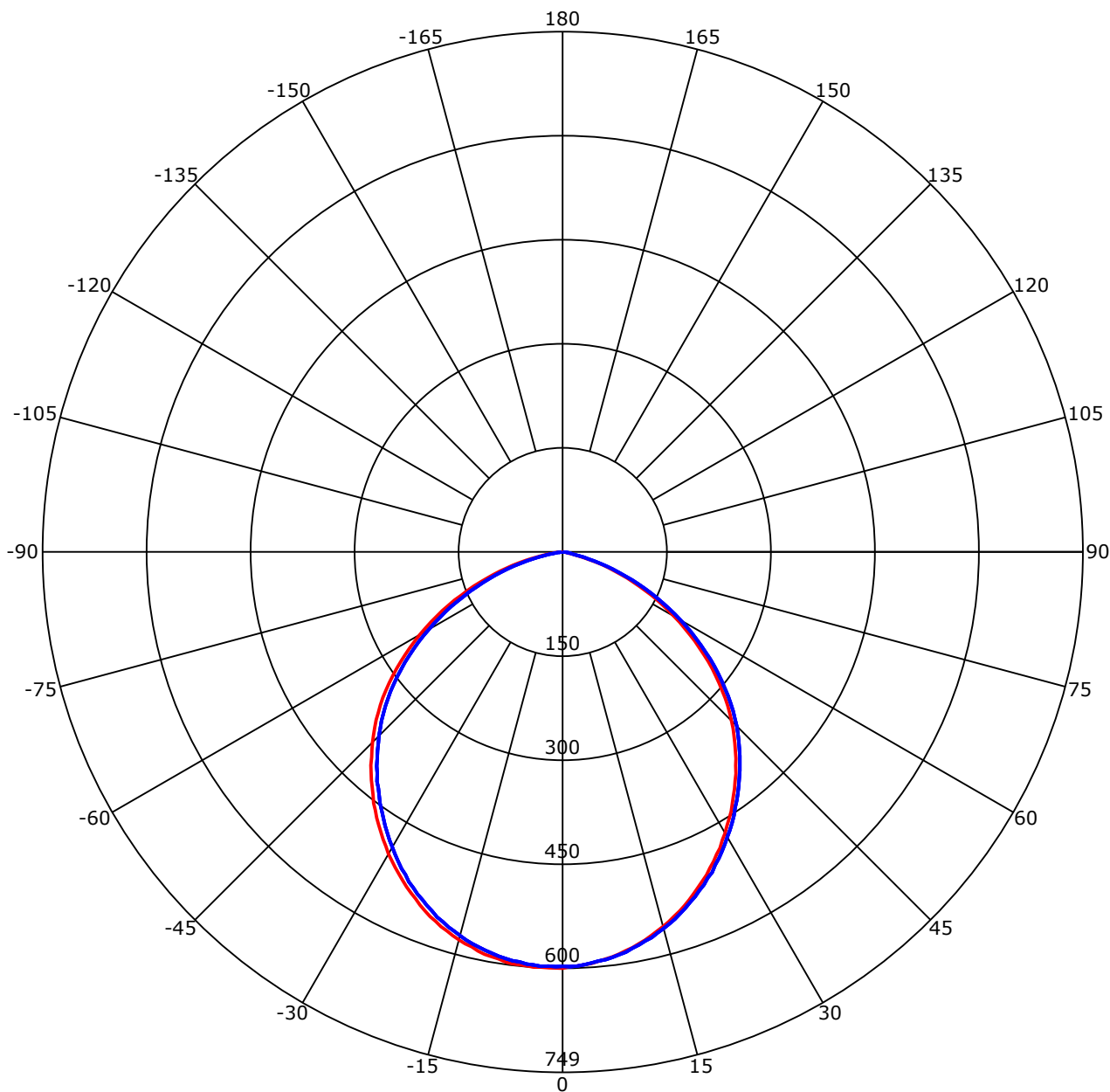
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

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: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

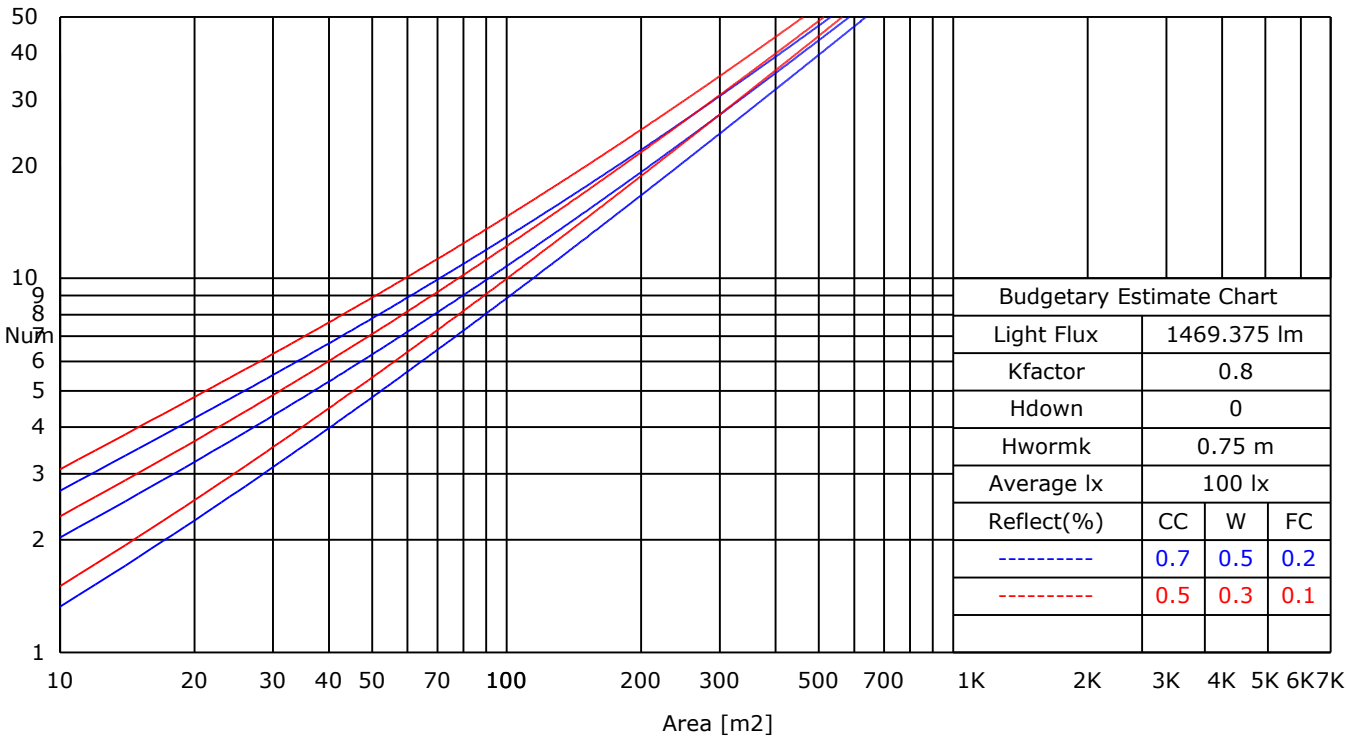
Report No.:

Test Time: 2024/12/24 18:05:37

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	1.06	1.05	1.06	1.05	1.03	1.02	1.01	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.82
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.84	0.84	0.81	0.78	0.73
3	0.88	0.85	0.84	0.87	0.84	0.82	0.85	0.81	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.66
4	0.79	0.77	0.76	0.79	0.76	0.74	0.77	0.74	0.71	0.75	0.71	0.67	0.72	0.67	0.63	0.59
5	0.72	0.70	0.68	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.65	0.61	0.67	0.62	0.57	0.54
6	0.66	0.64	0.62	0.66	0.63	0.61	0.65	0.61	0.58	0.64	0.59	0.56	0.62	0.57	0.52	0.49
7	0.61	0.59	0.57	0.61	0.58	0.56	0.61	0.56	0.54	0.60	0.55	0.51	0.58	0.53	0.48	0.45
8	0.56	0.54	0.53	0.56	0.54	0.52	0.56	0.52	0.49	0.56	0.51	0.47	0.55	0.49	0.45	0.41
9	0.52	0.50	0.49	0.52	0.50	0.48	0.53	0.49	0.46	0.52	0.47	0.44	0.51	0.46	0.41	0.38
10	0.49	0.47	0.46	0.49	0.46	0.45	0.49	0.45	0.43	0.49	0.44	0.41	0.49	0.43	0.39	0.36

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



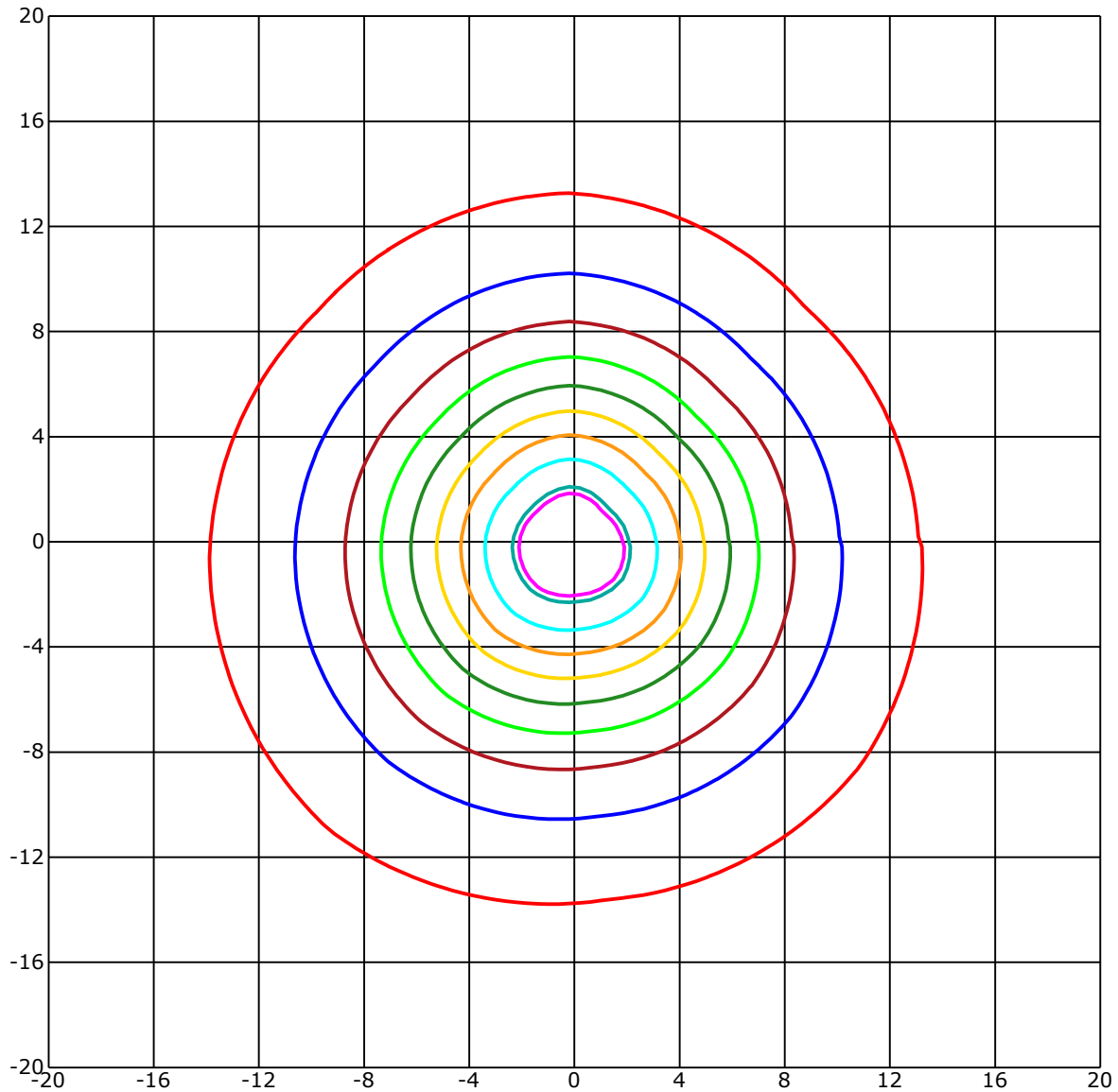
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

ISOLX DIAGRAM



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

5.516(92%Emax)	2.998(50%Emax)
5.396(90%Emax)	2.398(40%Emax)
4.796(80%Emax)	1.799(30%Emax)
4.197(70%Emax)	1.199(20%Emax)
3.597(60%Emax)	0.6(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

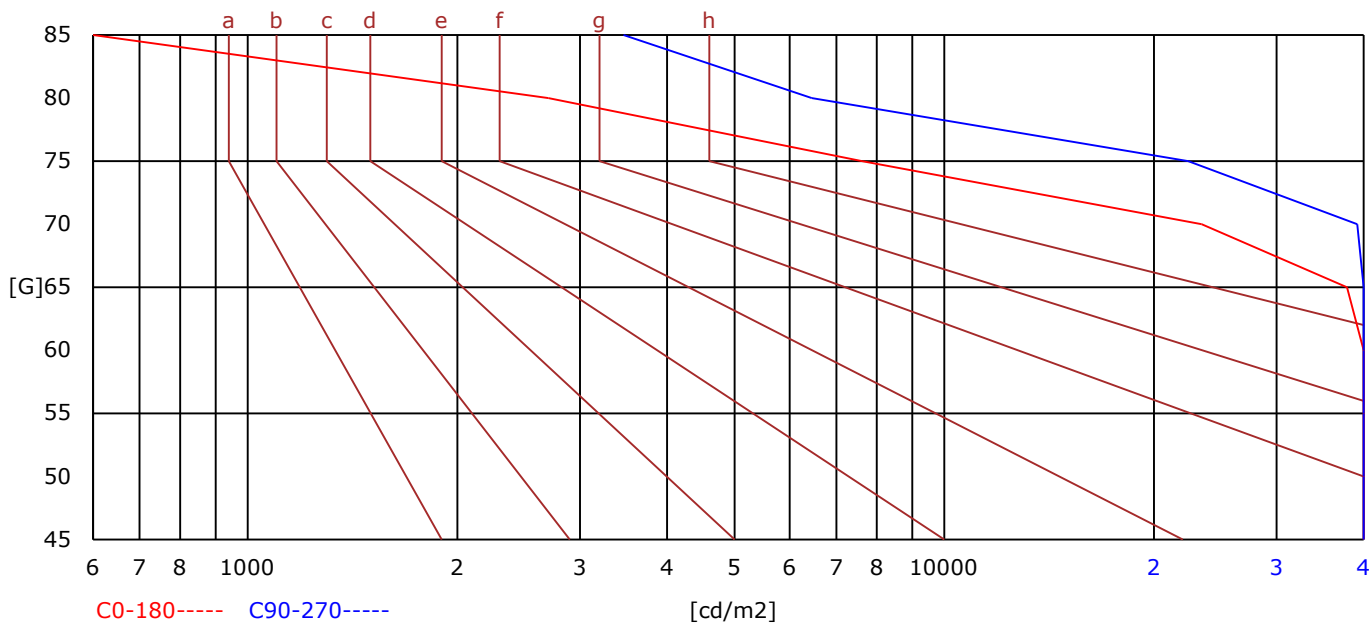
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	72617	66578	58869	49663	37861	23403	7616	2701	0
C90	80632	75964	69678	61793	51929	39160	22388	6454	3466
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



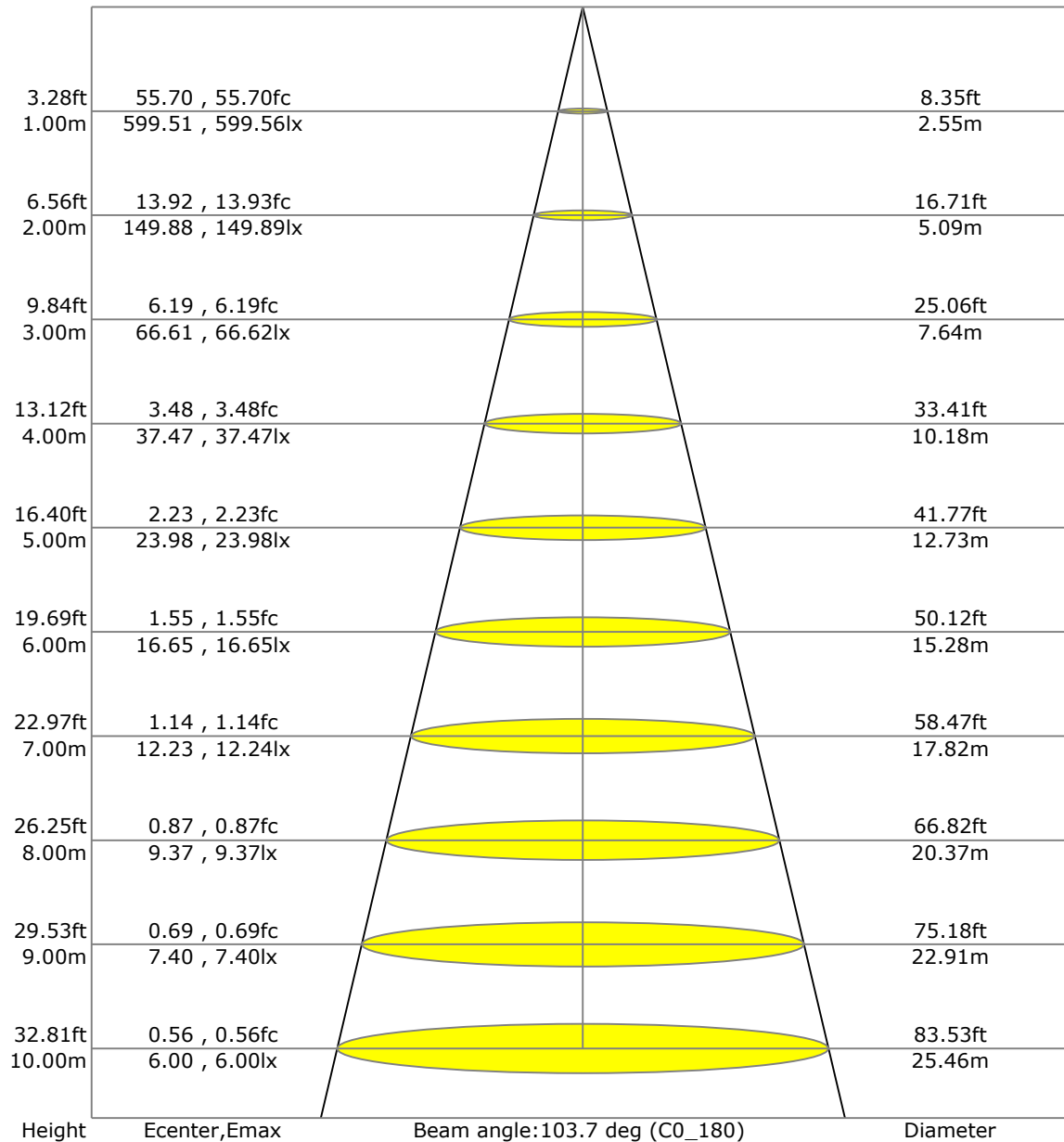
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

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	21.44	21.52	21.64	21.70	21.95	21.53	21.60	21.73	21.79	22.04
	3H	21.48	21.55	21.68	21.74	21.99	21.56	21.63	21.76	21.82	22.07
	4H	21.46	21.53	21.67	21.72	21.97	21.54	21.60	21.75	21.80	22.05
	6H	21.43	21.50	21.65	21.70	21.95	21.51	21.57	21.72	21.77	22.03
	8H	21.41	21.48	21.63	21.68	21.94	21.49	21.56	21.71	21.76	22.01
	12H	21.40	21.46	21.62	21.67	21.92	21.48	21.54	21.70	21.75	22.00
4H	2H	22.45	22.52	22.66	22.72	22.97	22.62	22.69	22.83	22.88	23.13
	3H	22.49	22.55	22.71	22.76	23.01	22.65	22.71	22.87	22.92	23.17
	4H	22.46	22.52	22.69	22.73	22.99	22.62	22.68	22.85	22.89	23.15
	6H	22.43	22.48	22.66	22.70	22.97	22.58	22.64	22.82	22.86	23.13
	8H	22.41	22.46	22.65	22.69	22.95	22.57	22.62	22.81	22.85	23.11
	12H	22.39	22.44	22.64	22.67	22.94	22.55	22.60	22.79	22.83	23.10
8H	4H	22.44	22.50	22.65	22.70	22.96	22.62	22.69	22.84	22.89	23.14
	6H	22.40	22.45	22.65	22.68	22.96	22.58	22.63	22.83	22.87	23.14
	8H	22.38	22.42	22.64	22.67	22.94	22.56	22.60	22.82	22.85	23.12
	12H	22.35	22.39	22.62	22.65	22.93	22.54	22.58	22.80	22.83	23.11
12H	4H	22.42	22.47	22.67	22.70	22.97	22.61	22.66	22.86	22.89	23.16
	6H	22.38	22.42	22.64	22.67	22.94	22.57	22.61	22.83	22.86	23.13

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

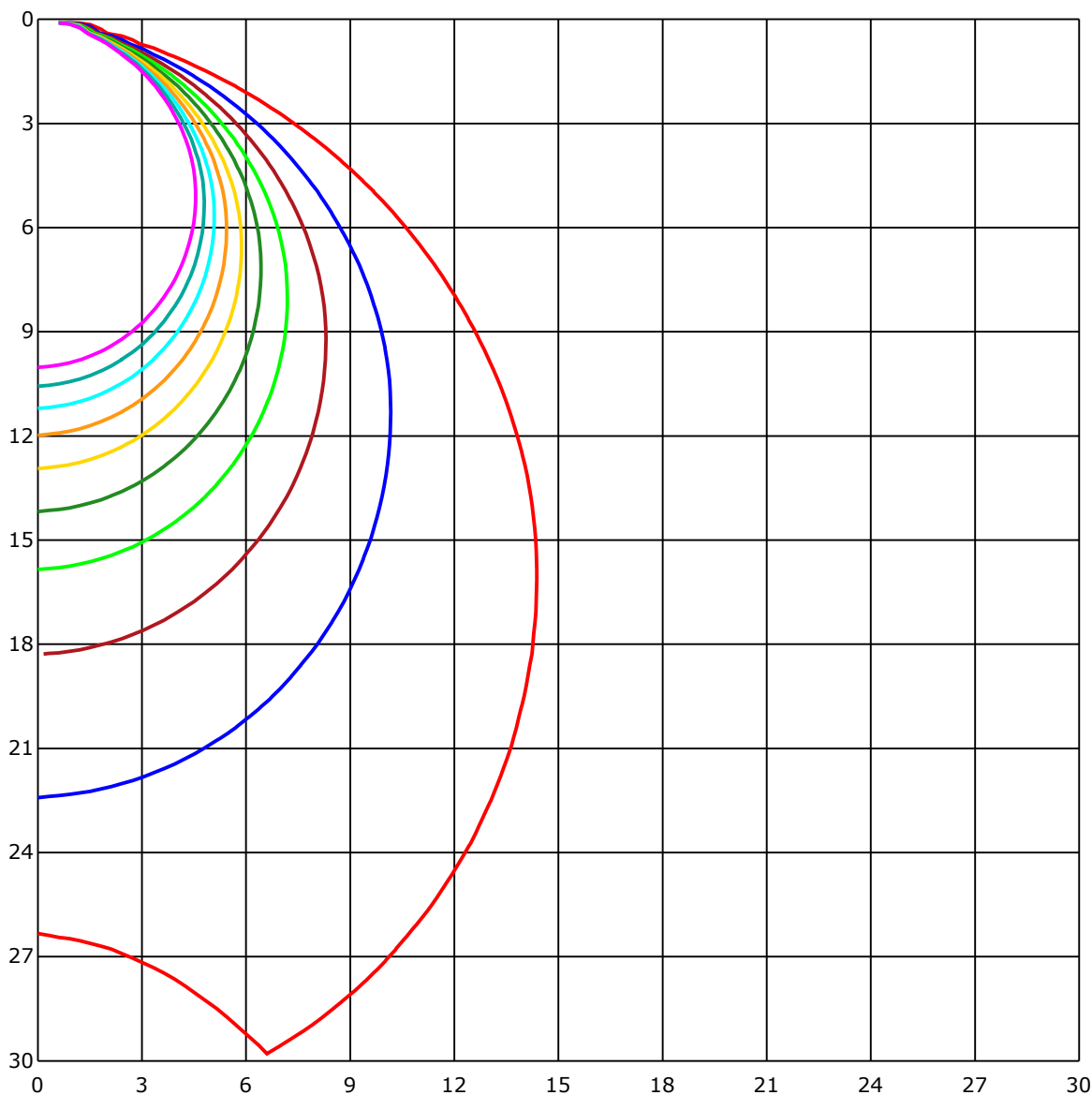
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

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: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	599.51	593.61	596.52	597.43	599.51	593.61	596.52	597.43	599.51	
G1	597.34	591.44	597.39	596.27	599.13	594.1	597.14	597.92	597.34	
G2	596.81	590.37	596.56	594.87	598.98	596.56	596.71	597.14	596.81	
G3	595.11	587.28	595.11	594.48	598.93	596.95	597.72	597.53	595.11	
G4	593.95	585.68	593.37	593.86	599.56	597.05	596.13	596.71	593.95	
G5	591.58	582.15	591.29	591.63	598.01	597.87	595.64	596.47	591.58	
G6	589.41	579.98	590.37	588.63	597.58	597.0	593.57	595.55	589.41	
G7	587.38	575.33	588.05	586.79	597.39	597.29	593.03	594.29	587.38	
G8	584.62	572.19	585.63	583.7	595.89	596.27	591.0	592.31	584.62	
G9	581.19	568.9	583.41	581.28	592.98	595.45	589.5	590.52	581.19	
G10	578.48	564.45	579.2	577.32	591.44	594.87	586.89	589.41	578.48	
G11	574.61	560.63	576.49	575.29	590.18	593.08	584.43	586.99	574.61	
G12	571.32	555.22	572.67	570.3	587.23	591.97	581.62	583.55	571.32	
G13	566.87	550.57	569.82	567.35	583.6	589.65	579.06	581.09	566.87	
G14	562.71	546.03	565.08	562.47	581.43	587.52	575.82	577.56	562.71	
G15	558.65	540.51	561.31	559.47	578.28	585.2	571.75	575.0	558.65	
G16	553.91	535.53	556.91	554.88	574.7	582.97	567.98	570.5	553.91	
G17	548.59	529.54	552.8	549.17	570.5	580.02	564.4	567.11	548.59	
G18	544.09	523.73	547.53	543.66	567.31	577.17	559.67	563.44	544.09	
G19	538.73	518.12	542.45	540.08	562.47	574.03	555.94	559.42	538.73	
G20	533.21	512.37	536.84	533.45	558.84	569.82	549.94	553.52	533.21	
G21	527.02	505.79	531.76	528.28	553.72	565.37	545.45	549.46	527.02	
G22	520.64	499.36	525.77	521.65	548.4	561.21	539.84	543.66	520.64	
G23	514.98	492.78	520.64	516.09	542.5	556.38	535.39	539.74	514.98	
G24	509.18	485.87	513.72	509.52	537.56	552.99	529.34	533.07	509.18	
G25	501.92	478.47	509.08	503.57	532.0	547.62	524.27	528.18	501.92	
G26	495.69	471.8	501.25	497.38	526.35	542.11	516.92	521.61	495.69	
G27	488.53	464.88	495.11	490.27	520.06	536.94	511.84	517.21	488.53	
G28	482.68	457.09	488.38	482.97	514.4	531.52	504.68	509.56	482.68	
G29	474.36	449.41	481.42	476.24	508.21	525.33	498.01	504.05	474.36	
G30	467.59	441.62	474.17	468.89	502.07	519.48	490.7	496.99	467.59	
G31	459.75	433.54	467.64	461.88	494.48	513.68	484.18	489.79	459.75	
G32	452.6	425.66	460.58	454.43	488.09	507.24	477.26	483.5	452.6	
G33	445.29	418.12	452.69	447.62	481.08	500.28	470.05	476.05	445.29	
G34	436.78	409.85	444.42	438.62	474.07	493.65	462.27	468.51	436.78	
G35	428.66	402.25	437.03	430.74	467.15	487.75	454.82	462.03	428.66	
G36	421.31	393.55	429.19	422.71	459.42	480.5	447.66	454.53	421.31	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:05:37

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	412.56	385.18	421.31	415.02	453.03	473.59	439.64	446.5	412.56	
G38	405.16	377.3	412.94	406.9	443.94	467.06	431.75	438.86	405.16	
G39	395.97	367.87	405.59	398.63	436.2	459.13	425.27	431.56	395.97	
G40	388.23	359.41	396.74	389.83	428.76	452.06	415.94	423.05	388.23	
G41	378.95	350.41	389.05	381.27	420.68	443.36	408.69	415.07	378.95	
G42	370.53	342.24	379.86	372.56	413.43	435.53	399.26	407.53	370.53	
G43	361.83	332.09	371.74	364.2	403.75	427.98	391.18	398.82	361.83	
G44	353.36	322.51	363.08	356.02	395.63	419.76	382.38	390.31	353.36	
G45	343.79	312.4	354.57	346.88	387.36	411.98	374.74	381.8	343.79	
G46	334.74	302.63	344.56	337.21	378.51	403.13	365.21	373.05	334.74	
G47	325.12	292.09	335.52	328.12	370.53	395.48	357.14	365.11	325.12	
G48	315.06	282.03	325.46	317.82	361.58	386.39	347.75	356.02	315.06	
G49	304.57	271.2	315.93	307.91	352.11	377.74	338.81	346.54	304.57	
G50	294.32	260.37	304.76	297.07	343.01	369.47	328.99	337.11	294.32	
G51	283.73	249.78	294.7	287.26	333.44	360.86	319.66	327.68	283.73	
G52	273.62	238.65	283.87	276.33	323.48	351.72	309.02	317.38	273.62	
G53	262.35	228.11	273.57	265.35	313.13	342.43	299.01	307.18	262.35	
G54	251.32	216.94	262.4	253.94	302.3	332.57	288.13	296.69	251.32	
G55	240.25	205.43	251.13	243.15	291.75	323.04	277.34	286.68	240.25	
G56	229.47	195.32	240.11	232.32	281.16	312.31	266.36	275.02	229.47	
G57	218.3	183.62	229.47	221.39	270.28	301.52	255.53	264.43	218.3	
G58	207.56	172.79	218.15	210.27	258.92	291.95	244.65	253.07	207.56	
G59	196.58	161.86	207.27	199.63	248.08	281.02	233.72	242.67	196.58	
G60	185.36	151.08	195.76	187.97	237.2	269.8	222.45	231.16	185.36	
G61	174.43	140.0	185.07	177.24	225.94	258.19	211.38	219.99	174.43	
G62	163.6	129.7	173.51	166.31	214.91	247.36	200.11	208.77	163.6	
G63	153.06	118.67	162.54	155.57	203.45	236.38	189.71	198.13	153.06	
G64	142.08	108.37	151.22	144.5	192.71	225.4	178.25	186.76	142.08	
G65	131.05	97.35	140.73	133.52	181.49	214.23	167.08	175.98	131.05	
G66	120.22	87.14	129.31	122.54	170.18	202.77	155.57	164.37	120.22	
G67	109.78	77.04	118.34	112.19	158.81	191.6	145.03	153.98	109.78	
G68	99.57	67.46	107.36	101.65	147.69	180.19	133.67	142.18	99.57	
G69	88.98	57.93	97.01	91.74	136.76	168.48	123.08	131.25	88.98	
G70	79.12	48.7	86.47	81.49	126.07	157.65	112.34	120.66	79.12	
G71	69.25	39.7	76.31	71.86	115.34	146.24	102.38	109.78	69.25	
G72	59.92	31.72	66.3	62.19	104.84	135.41	92.27	99.23	59.92	
G73	50.25	24.08	57.02	52.95	94.45	124.09	82.26	88.79	50.25	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:05:37

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

[illegible]

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: