

Report No.:

Test Time: 2024/12/3 09:42:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT165-25W
Lamp Type:
Luminous Width: 143 mm
Luminous Length: 143 mm
Luminous Height: 60 mm

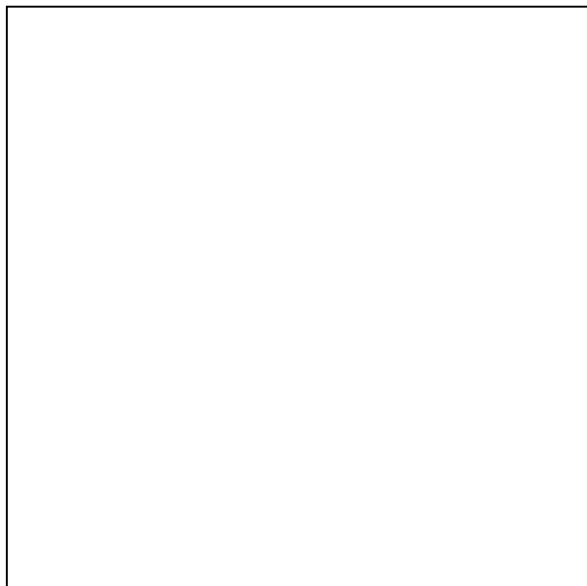
Voltage(V): 219.90 V
Current(A): 0.1153 A
Power(W): 24.57 W
Power Factor: 0.9690
Lamp Luminous Flux: 2100.25

Photometric Results

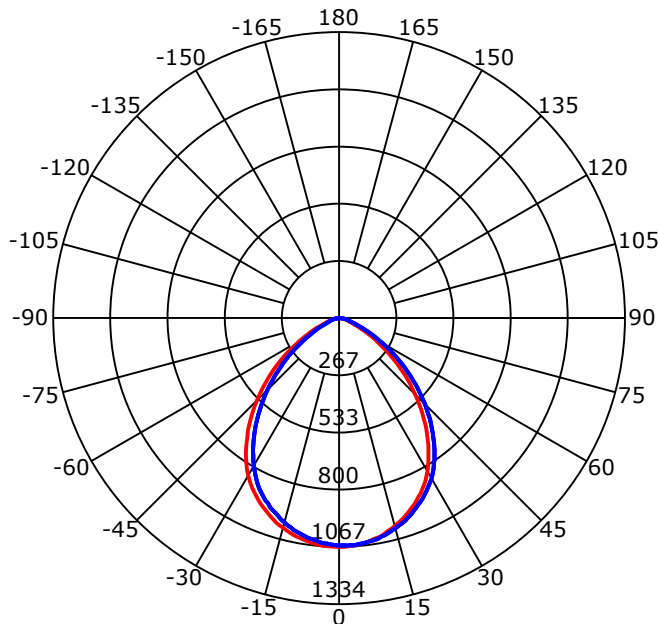
CIE Class: Direct
Luminaire Luminous Flux: 2100.254 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.48 lm/W
Beam Angle(50%) C0-180,C90-270: 88.9,88.8
Field Angle(10%) C0-180,C90-270: 131.6,131.6
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1066.99 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1066.99 cd
Effective Luminous Flux: 2004.59 lm
ERP(ϕ use)(120deg): 1920.47 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 88.9 deg,88.8 deg

C0-180 — C90-270 —

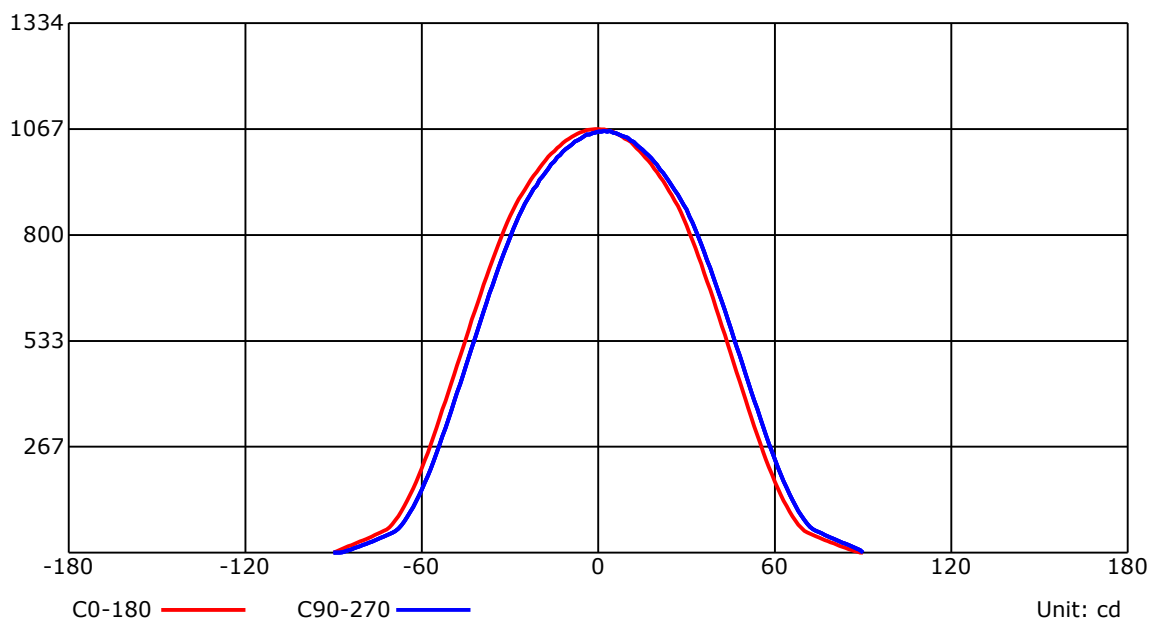
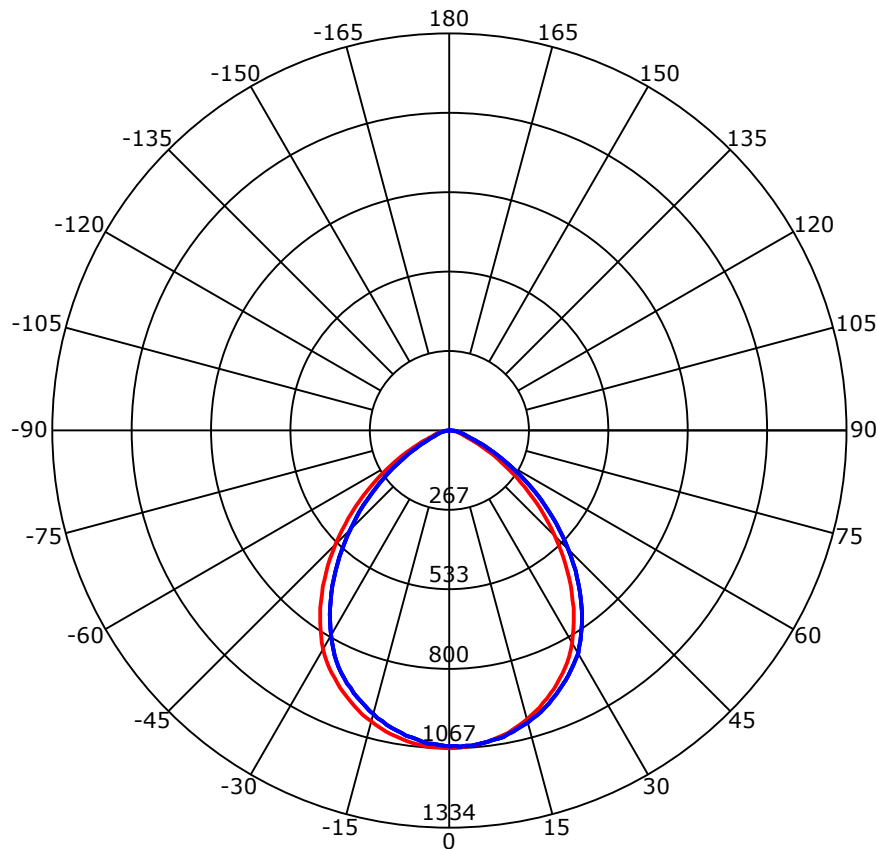
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

Luminous Intensity Distribution Curve



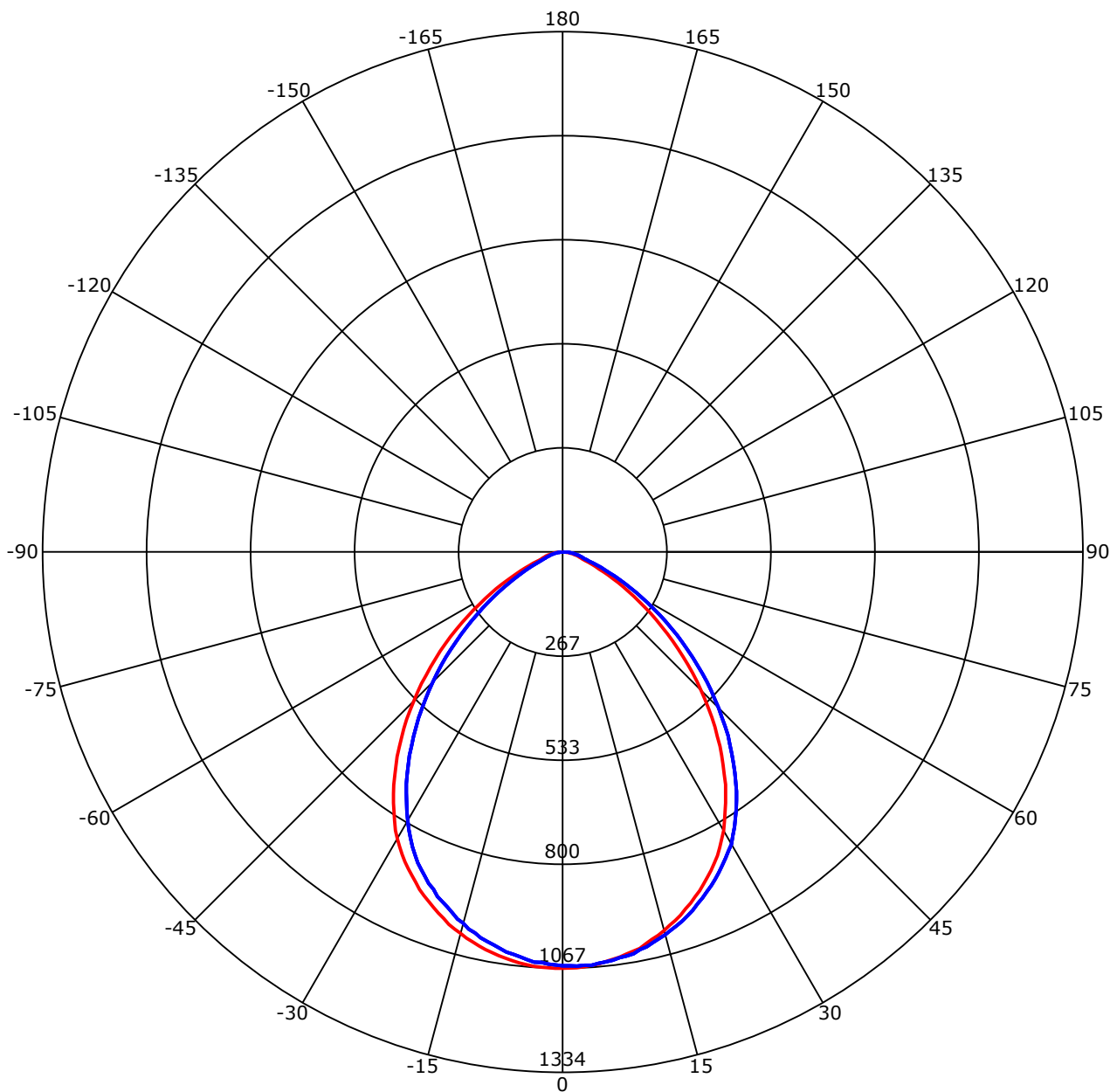
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

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: 2024/12/3 09:42:15

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

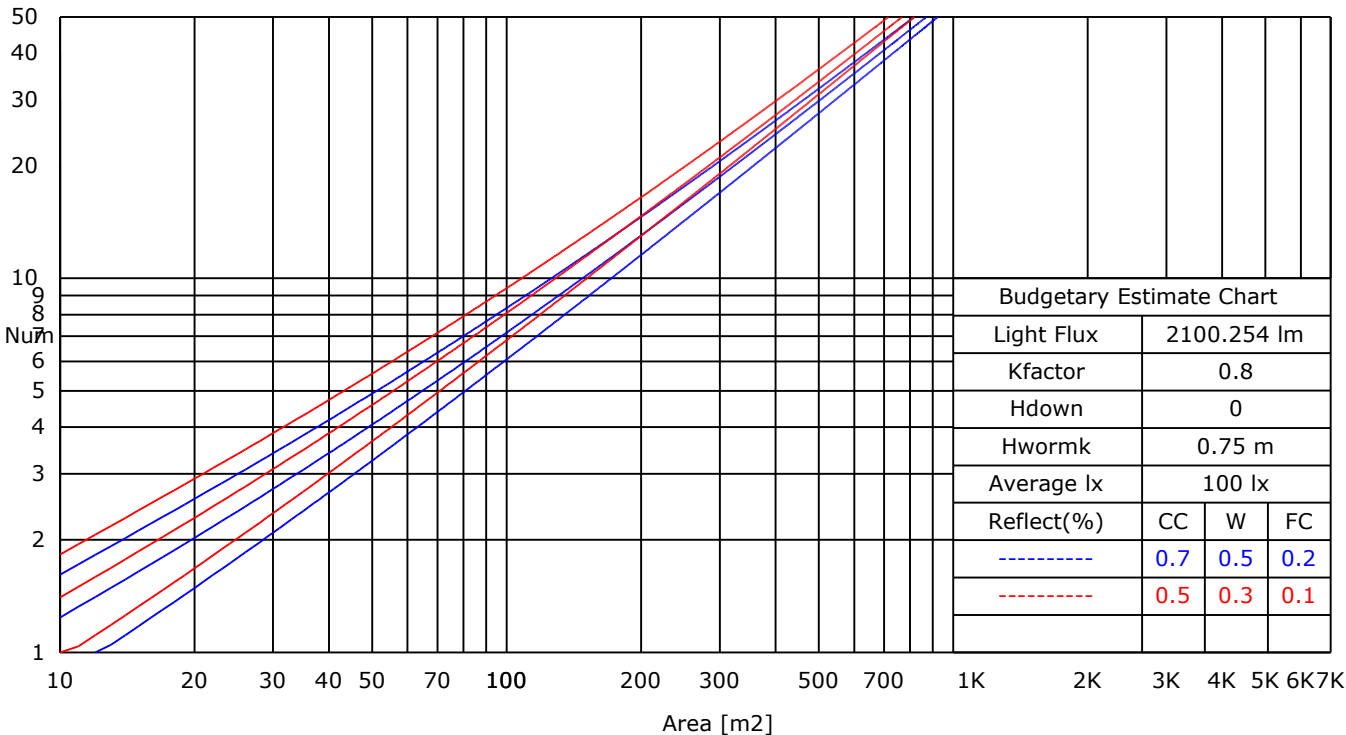
Report No.:

Test Time: 2024/12/3 09:42:15

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	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.80	0.75
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.79	0.74	0.71	0.75	0.71	0.67	0.63
5	0.77	0.75	0.74	0.77	0.74	0.72	0.75	0.72	0.69	0.73	0.69	0.66	0.70	0.66	0.62	0.58
6	0.72	0.70	0.68	0.71	0.69	0.67	0.70	0.67	0.64	0.69	0.64	0.61	0.66	0.61	0.57	0.54
7	0.67	0.65	0.64	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.60	0.56	0.63	0.57	0.53	0.50
8	0.62	0.61	0.59	0.62	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.53	0.59	0.54	0.50	0.47
9	0.59	0.57	0.56	0.59	0.56	0.55	0.58	0.54	0.52	0.57	0.53	0.49	0.56	0.51	0.47	0.44
10	0.55	0.54	0.52	0.55	0.53	0.51	0.55	0.51	0.49	0.54	0.50	0.47	0.53	0.48	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



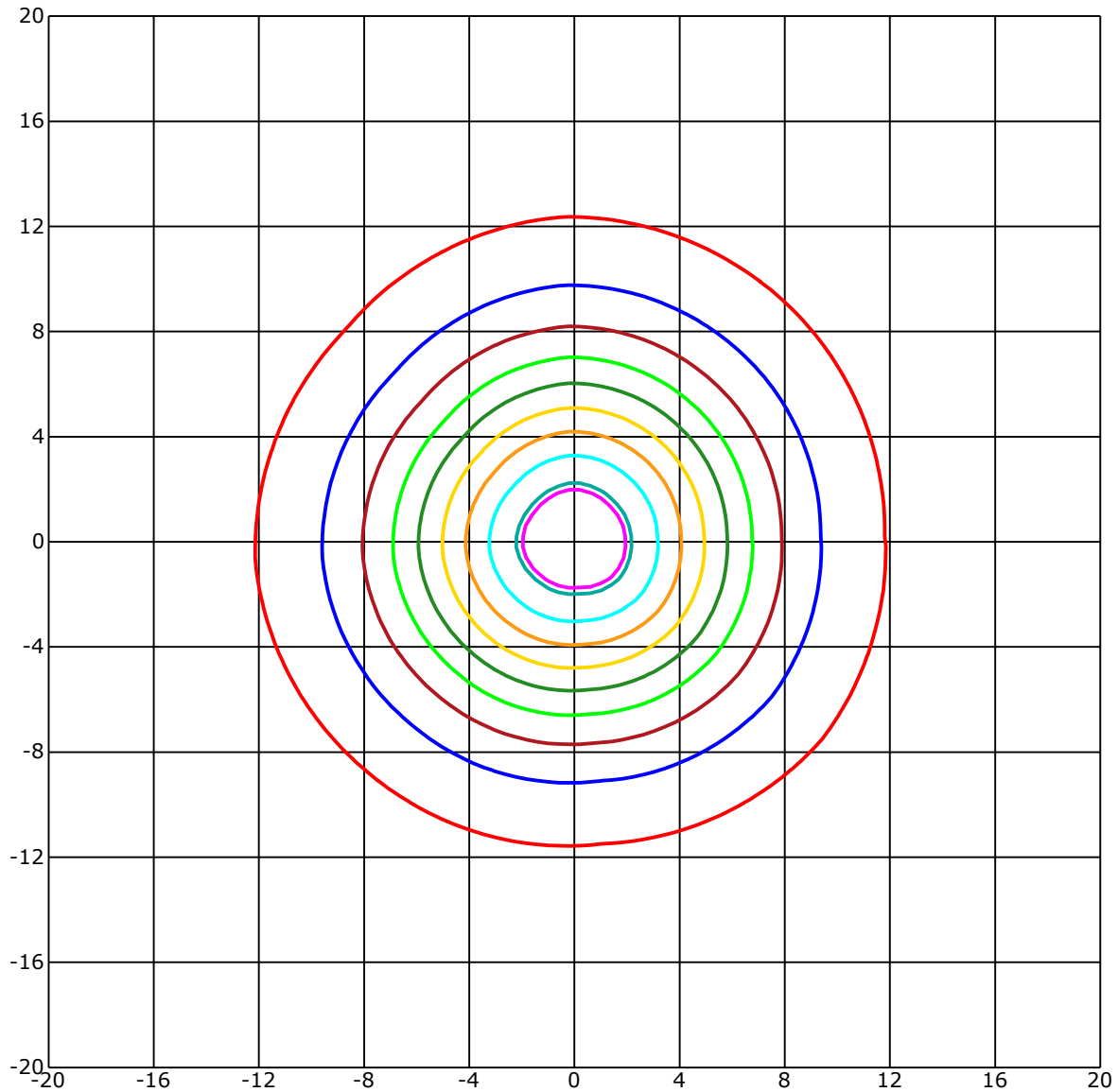
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

ISOLX DIAGRAM



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

9.816(92%Emax)	5.335(50%Emax)
9.603(90%Emax)	4.268(40%Emax)
8.536(80%Emax)	3.201(30%Emax)
7.469(70%Emax)	2.134(20%Emax)
6.402(60%Emax)	1.067(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

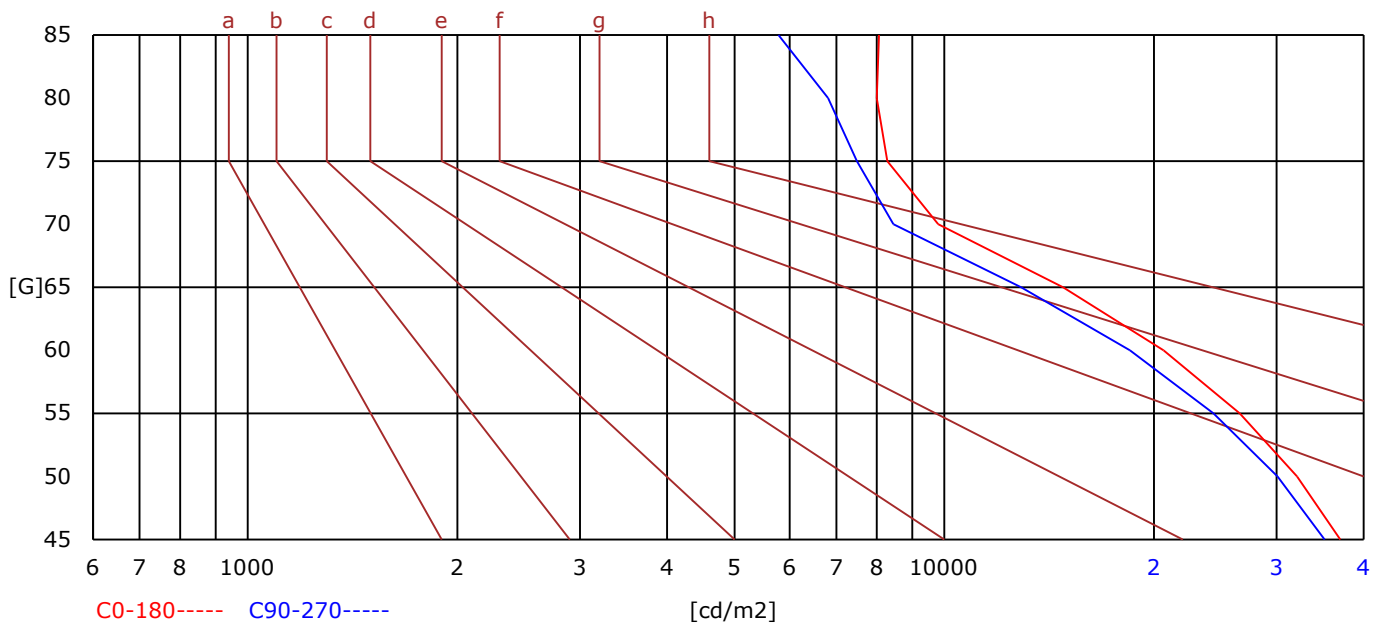
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/12/3 09:42:15

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	37030	32090	26542	20637	14813	9806	8282	7998	8060
C90	35137	30076	24341	18465	12894	8450	7491	6808	5780
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



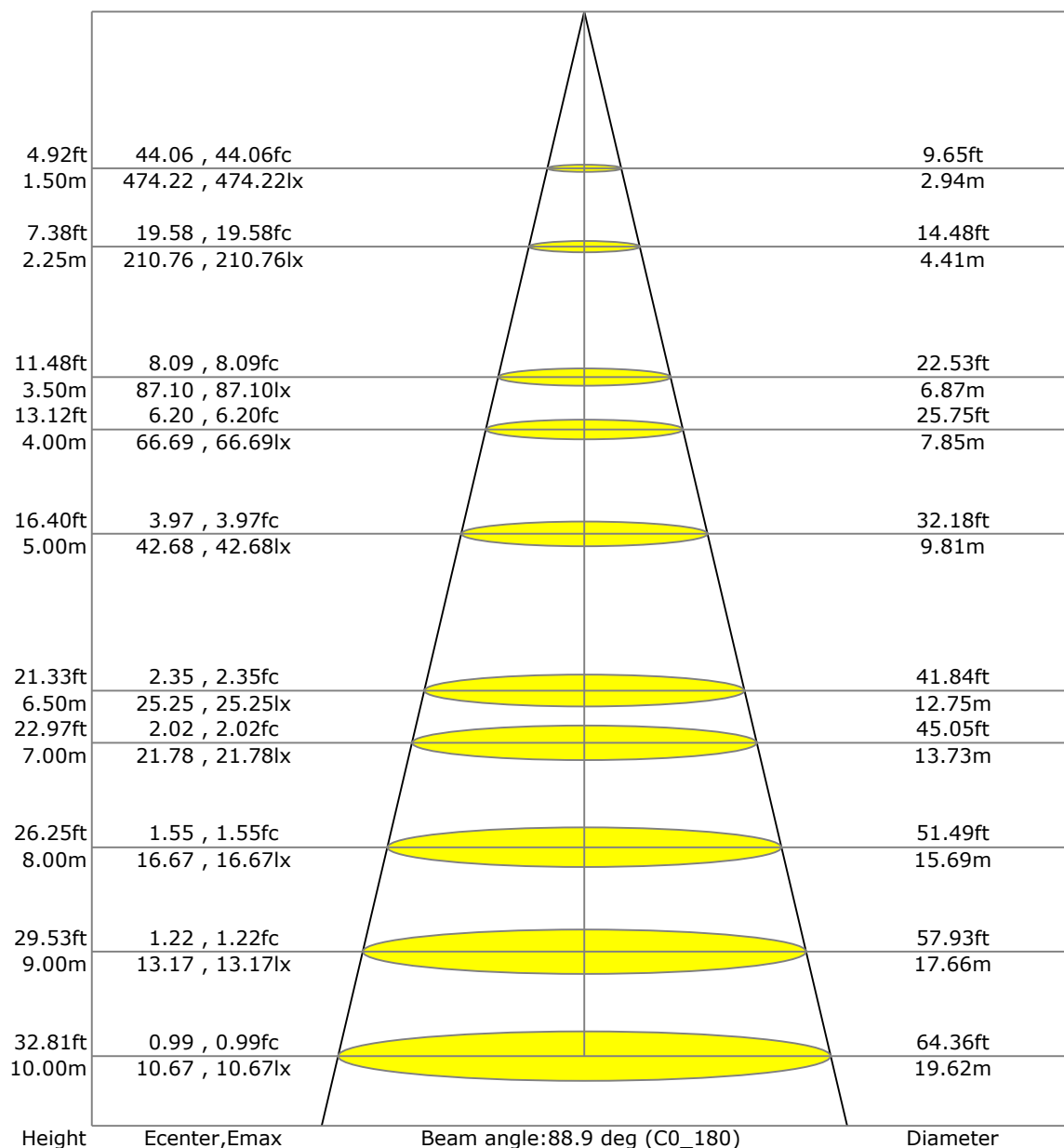
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

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	17.48	17.54	17.68	17.73	17.98	17.79	17.85	17.99	18.04	18.28
3H	17.49	17.55	17.70	17.75	17.99	17.78	17.85	17.99	18.04	18.29
4H	17.47	17.54	17.68	17.73	17.98	17.76	17.83	17.97	18.02	18.27
6H	17.45	17.51	17.67	17.71	17.96	17.74	17.80	17.95	18.00	18.25
8H	17.44	17.50	17.65	17.70	17.95	17.72	17.79	17.94	17.99	18.24
12H	17.42	17.48	17.64	17.69	17.94	17.71	17.77	17.93	17.98	18.23
4H 2H	17.98	18.04	18.19	18.24	18.49	18.46	18.53	18.67	18.72	18.97
3H	18.04	18.10	18.26	18.30	18.56	18.50	18.56	18.73	18.77	19.02
4H	18.04	18.09	18.27	18.31	18.56	18.50	18.55	18.73	18.77	19.02
6H	18.02	18.07	18.26	18.29	18.56	18.47	18.53	18.71	18.75	19.01
8H	18.00	18.06	18.25	18.28	18.55	18.46	18.51	18.70	18.74	19.00
12H	17.99	18.04	18.24	18.27	18.54	18.44	18.49	18.69	18.72	18.99
8H 4H	18.04	18.10	18.26	18.31	18.56	18.59	18.65	18.80	18.85	19.10
6H	18.16	18.21	18.42	18.45	18.72	18.69	18.74	18.95	18.98	19.25
8H	18.16	18.20	18.42	18.45	18.72	18.68	18.72	18.94	18.97	19.25
12H	18.14	18.18	18.41	18.44	18.72	18.66	18.70	18.93	18.96	19.24
12H 4H	18.18	18.23	18.42	18.46	18.73	18.75	18.80	19.00	19.03	19.30
6H	18.19	18.23	18.45	18.48	18.75	18.77	18.81	19.03	19.05	19.33

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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

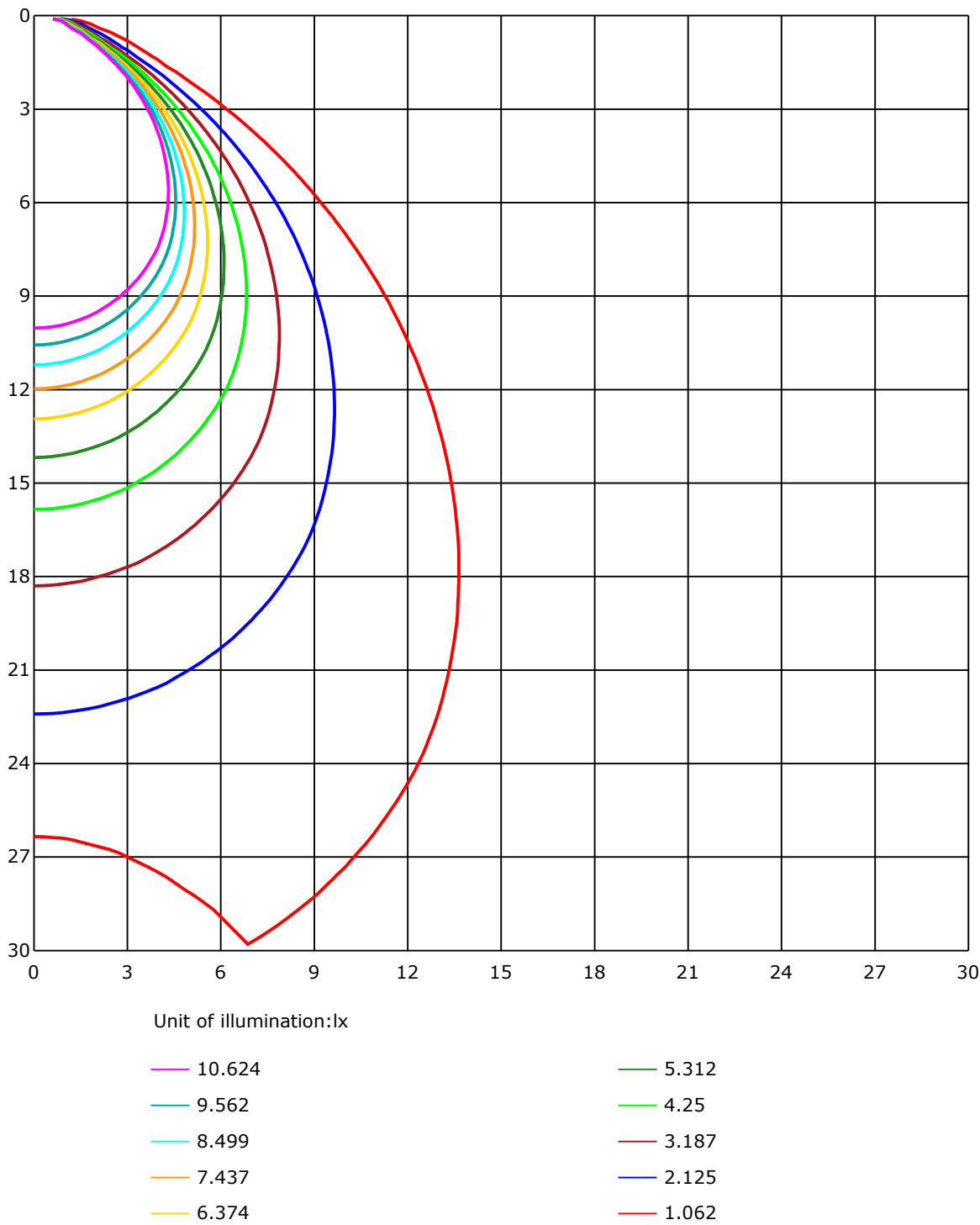
[illegible]

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

Report No.:

Test Time: 2024/12/3 09:42:15

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1066.99	1057.96	1060.38	1063.75	1066.99	1057.96	1060.38	1063.75	1066.99	
G1	1066.5	1058.21	1060.34	1065.35	1066.95	1057.26	1058.41	1066.91	1066.5	
G2	1066.29	1057.18	1062.11	1061.82	1066.29	1055.83	1056.53	1063.42	1066.29	
G3	1063.75	1056.28	1060.38	1060.1	1065.23	1054.8	1053.49	1062.52	1063.75	
G4	1061.66	1055.75	1061.86	1057.92	1064.36	1051.68	1053.73	1060.3	1061.66	
G5	1060.47	1054.64	1058.21	1055.99	1061.45	1048.77	1048.69	1060.51	1060.47	
G6	1055.62	1050.82	1056.24	1052.58	1058.82	1045.28	1043.23	1057.26	1055.62	
G7	1052.18	1048.6	1053.73	1048.19	1055.5	1040.52	1038.84	1054.15	1052.18	
G8	1048.64	1045.85	1050.0	1044.7	1051.68	1038.43	1035.51	1049.14	1048.64	
G9	1043.1	1041.09	1047.95	1040.52	1047.41	1031.94	1028.53	1047.95	1043.1	
G10	1039.33	1037.44	1045.48	1034.53	1042.65	1027.84	1022.58	1041.05	1039.33	
G11	1035.02	1031.04	1037.85	1031.04	1038.14	1019.79	1016.96	1036.54	1035.02	
G12	1026.36	1026.2	1034.4	1021.8	1032.43	1014.17	1010.72	1029.4	1026.36	
G13	1018.85	1019.5	1027.51	1014.99	1025.5	1006.58	1001.86	1024.8	1018.85	
G14	1012.32	1013.72	1021.47	1007.64	1019.59	1000.67	995.99	1017.53	1012.32	
G15	1004.44	1006.54	1015.65	1001.16	1011.5	993.65	985.4	1011.83	1004.44	
G16	995.45	999.84	1008.01	991.55	1005.35	983.84	978.71	1002.8	995.45	
G17	987.2	990.41	1001.32	982.77	997.92	975.75	967.09	995.33	987.2	
G18	978.38	982.57	994.06	973.54	988.02	967.05	957.16	985.93	978.38	
G19	967.26	974.36	984.95	964.51	978.91	955.15	947.8	978.05	967.26	
G20	957.94	964.79	976.57	953.67	969.23	946.53	939.27	967.22	957.94	
G21	946.61	954.29	965.7	943.94	959.25	935.24	925.35	958.51	946.61	
G22	936.72	944.72	956.67	933.19	949.49	926.09	916.53	947.23	936.72	
G23	924.61	934.01	945.83	921.12	939.22	912.1	903.44	935.04	924.61	
G24	911.77	922.15	935.82	909.39	926.75	903.02	891.41	925.11	911.77	
G25	900.07	909.88	924.7	897.94	914.72	890.3	878.77	914.11	900.07	
G26	886.53	899.04	913.33	883.94	903.56	877.78	863.58	900.07	886.53	
G27	873.27	887.14	901.47	871.42	891.2	862.72	847.99	888.17	873.27	
G28	857.88	874.87	888.74	857.55	877.62	847.21	830.91	875.77	857.88	
G29	840.97	858.41	876.26	840.31	863.34	831.08	813.47	859.31	840.97	
G30	824.39	843.43	864.53	823.85	848.44	813.43	794.26	842.94	824.39	
G31	805.26	826.56	847.12	807.6	832.31	793.73	776.08	824.72	805.26	
G32	785.81	809.2	830.79	786.34	812.94	776.78	755.97	807.93	785.81	
G33	766.68	789.66	813.02	767.26	794.3	756.09	736.35	790.12	766.68	
G34	746.08	771.36	795.0	749.03	775.92	737.01	716.53	769.39	746.08	
G35	727.53	752.89	776.45	729.29	756.91	715.13	695.06	748.29	727.53	
G36	704.25	732.98	757.61	707.87	737.38	694.94	673.68	728.51	704.25	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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

Report No.:

Test Time: 2024/12/3 09:42:15

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	683.57	712.13	736.55	687.59	715.13	674.91	652.83	708.77	683.57	
G38	662.06	691.9	716.81	666.0	694.57	653.57	629.56	687.18	662.06	
G39	640.47	669.49	695.55	643.63	674.99	631.12	607.48	664.81	640.47	
G40	616.5	647.45	674.5	621.31	651.47	609.45	585.02	642.73	616.5	
G41	594.51	625.99	653.24	599.23	629.76	587.98	562.66	622.25	594.51	
G42	570.99	603.29	633.41	577.43	608.99	564.54	539.3	598.2	570.99	
G43	548.21	581.33	609.9	554.69	586.99	541.19	516.69	574.72	548.21	
G44	524.36	558.92	587.12	531.67	562.37	519.07	493.79	552.89	524.36	
G45	501.42	535.45	565.32	508.07	539.88	496.04	470.84	529.9	501.42	
G46	478.72	512.83	541.89	485.45	517.47	472.69	447.78	506.14	478.72	
G47	455.08	490.63	519.52	463.46	495.02	449.99	425.41	482.7	455.08	
G48	431.61	468.01	497.03	440.06	471.54	428.45	403.62	459.68	431.61	
G49	408.95	446.3	474.58	417.82	448.93	405.09	380.51	437.11	408.95	
G50	386.21	421.8	450.9	395.32	426.6	383.42	357.4	414.66	386.21	
G51	363.35	399.68	428.61	372.38	404.23	361.09	335.48	391.3	363.35	
G52	341.11	377.31	405.63	350.26	381.74	339.14	313.61	368.69	341.11	
G53	318.41	354.86	383.83	329.25	360.32	317.3	292.55	346.57	318.41	
G54	296.21	332.86	361.87	306.63	337.17	295.51	270.84	324.65	296.21	
G55	275.73	311.31	339.3	285.49	314.88	274.08	251.22	301.83	275.73	
G56	254.59	289.8	317.59	264.15	293.62	254.14	231.11	281.02	254.59	
G57	234.35	268.58	296.12	244.04	272.69	234.93	211.82	260.54	234.35	
G58	215.56	248.8	275.23	225.41	251.72	215.23	193.72	239.98	215.56	
G59	197.13	229.55	254.42	206.9	232.26	196.84	175.95	220.56	197.13	
G60	178.82	211.0	234.93	188.8	213.22	179.97	159.21	201.89	178.82	
G61	162.37	192.98	215.84	171.48	195.12	163.06	143.77	184.94	162.37	
G62	146.07	175.29	197.79	155.1	177.96	147.55	129.0	167.78	146.07	
G63	130.97	158.34	179.77	139.75	161.42	132.81	114.71	151.98	130.97	
G64	116.81	142.87	162.94	124.81	145.66	119.07	102.07	136.34	116.81	
G65	103.59	128.01	147.14	111.43	131.05	105.85	89.64	122.35	103.59	
G66	91.2	114.1	132.49	98.75	117.34	93.82	78.64	108.89	91.2	
G67	80.77	101.01	118.37	86.97	104.13	82.62	68.95	96.41	80.77	
G68	70.63	89.15	105.27	76.34	92.1	72.97	60.46	85.29	70.63	
G69	62.22	78.27	93.25	66.86	81.72	64.72	54.01	75.48	62.22	
G70	55.45	68.58	82.58	59.1	72.07	58.77	50.2	66.69	55.45	
G71	51.18	60.58	72.77	53.31	63.99	55.0	46.87	60.29	51.18	
G72	47.98	54.14	64.72	49.62	58.53	51.63	43.63	56.27	47.98	
G73	44.7	50.15	58.94	46.38	54.87	48.18	40.18	52.99	44.7	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/3 09:42:15

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