

Report No.:

Test Time: 2024/10/26 16:09:02

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
 Luminaire Type: IBSP151CT095H67-60°-10W
 Lamp Type:
 Luminous Width: 80 mm
 Luminous Length: 80 mm
 Luminous Height: 63 mm

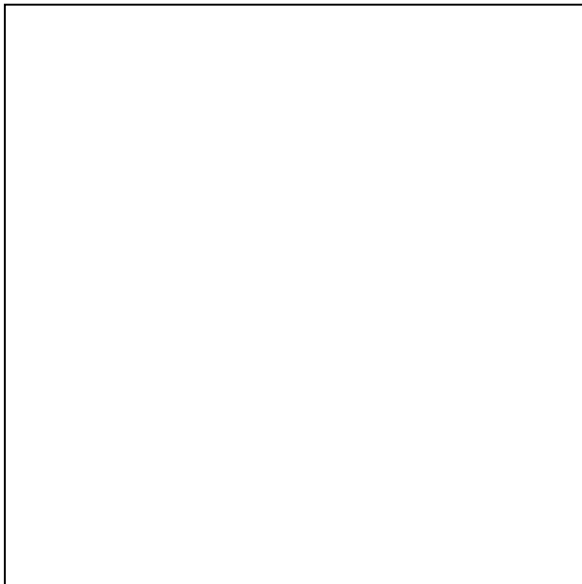
Voltage(V): 219.90 V
 Current(A): 0.0530 A
 Power(W): 10.84 W
 Power Factor: 0.9170
 Lamp Luminous Flux: 1136.14

Photometric Results

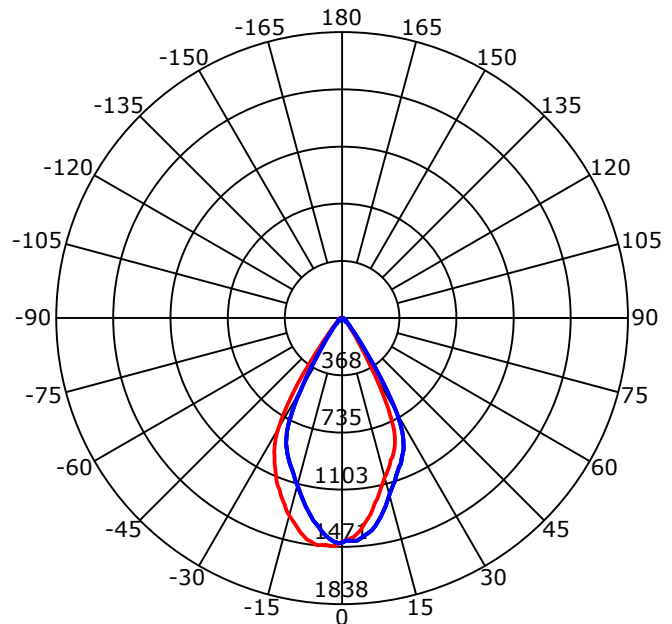
CIE Class: Direct
 Luminaire Luminous Flux: 1136.136 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 104.81 lm/W
 Beam Angle(50%) C0-180,C90-270: 57.1,57.1
 Field Angle(10%) C0-180,C90-270: 76.1,76.5
 S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 1470.54 cd
 Max.Intensity Angle: C=135 Gamma=2
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 1438.26 cd
 Effective Luminous Flux: 1028.74 lm
 ERP(φ use)(120deg): 1115.82 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 57.1 deg,57.1 deg

C0-180 — C90-270 —

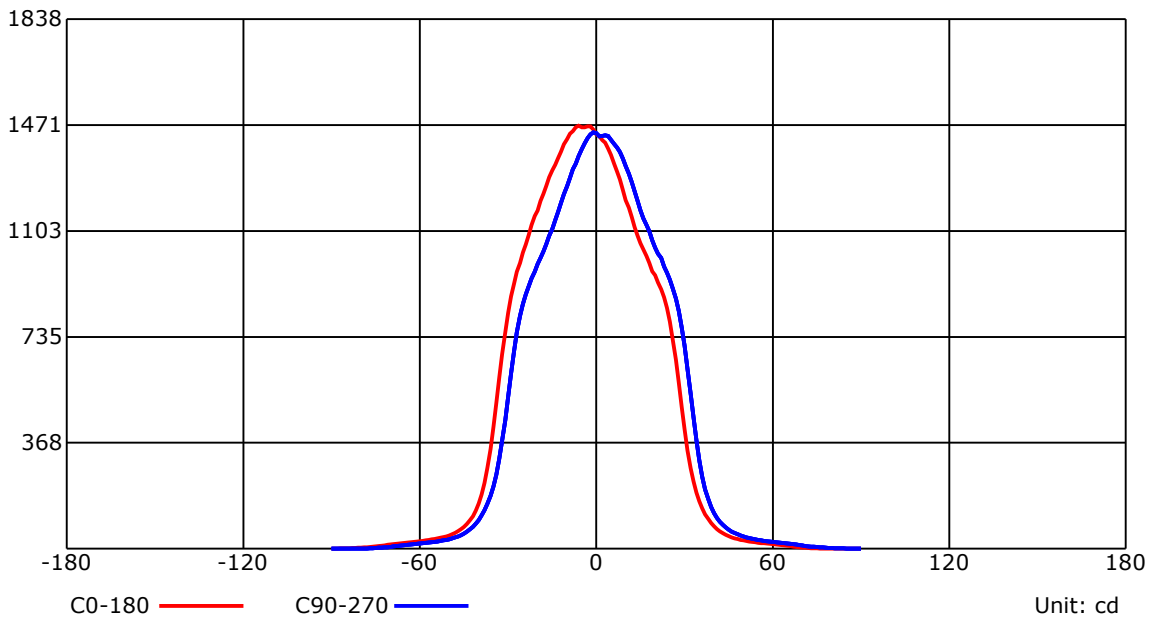
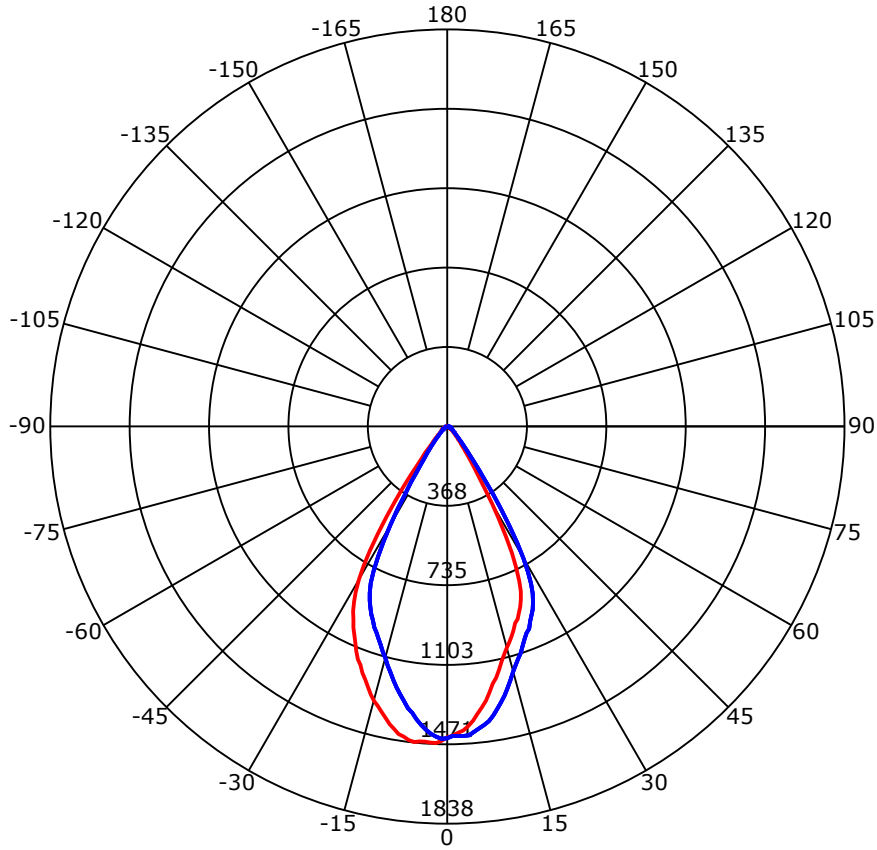
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/26 16:09:02

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



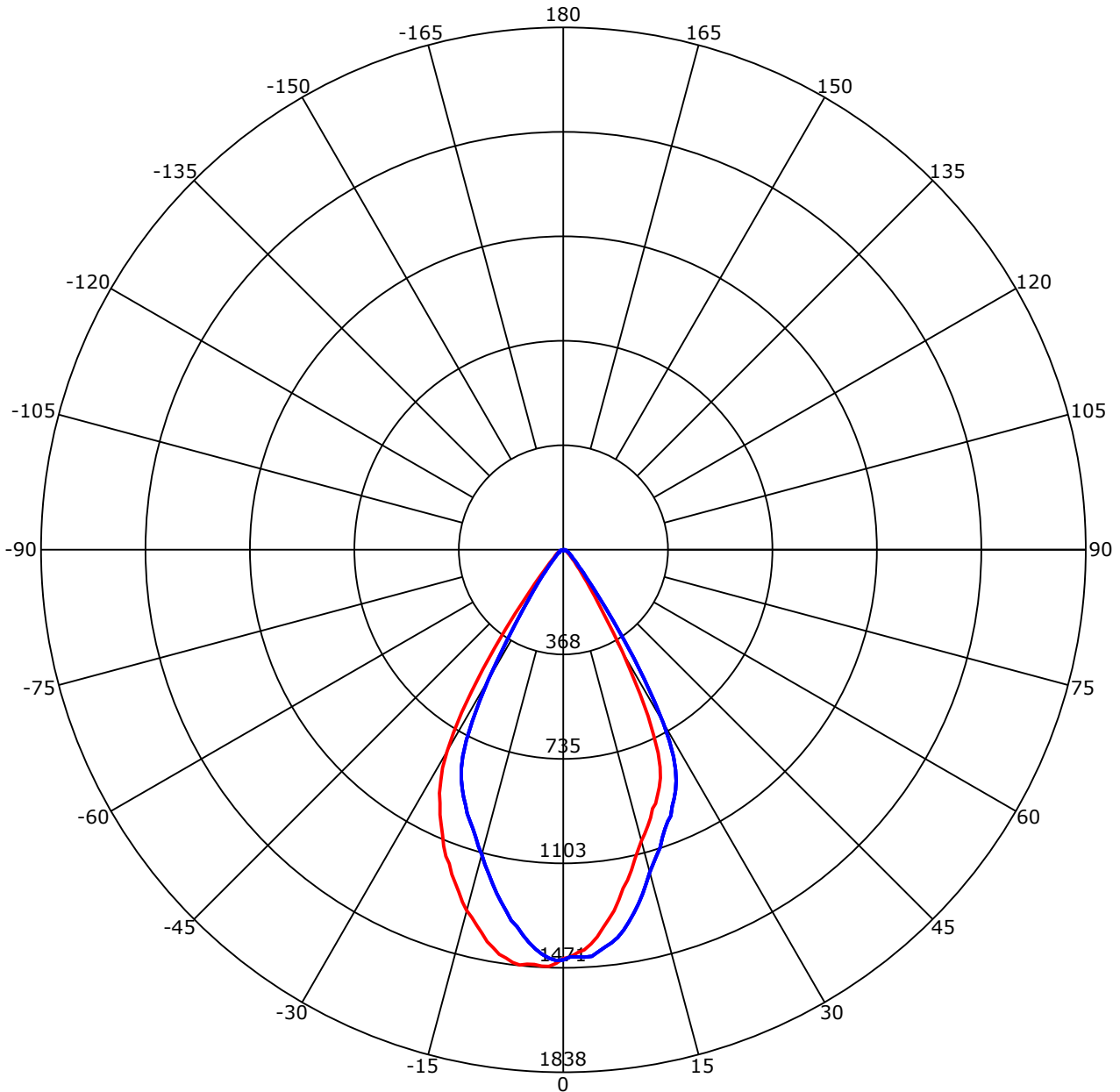
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 Humidity: 60
 Test Distance: 6.81 m
 Remarks:

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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: 2024/10/26 16:09:02

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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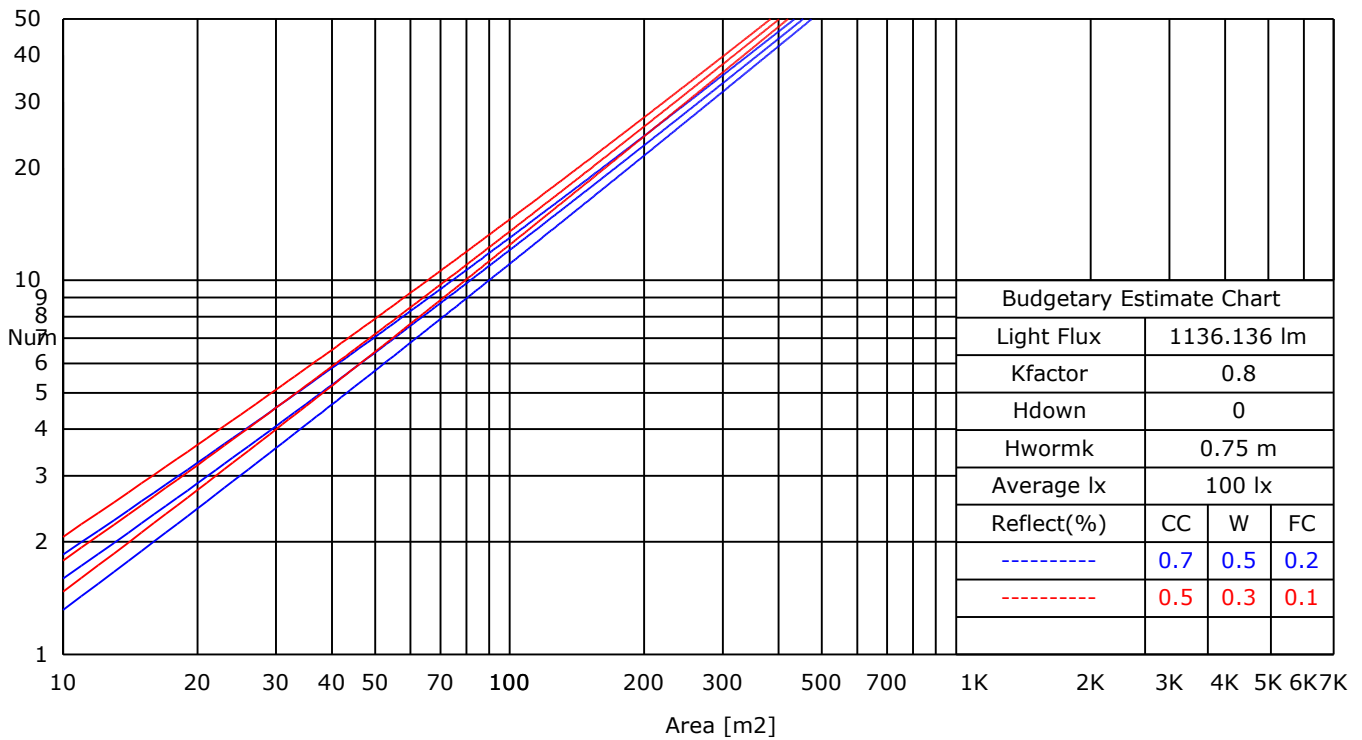
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UTILIZATION FACTORS TABLE

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	1.05	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.96	0.96	0.93	0.91	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	0.99	0.97	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.86	0.84	0.81	0.76
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.75	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.83	0.80	0.82	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	0.77	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	0.79	0.80	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.78	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.74	0.73	0.71	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



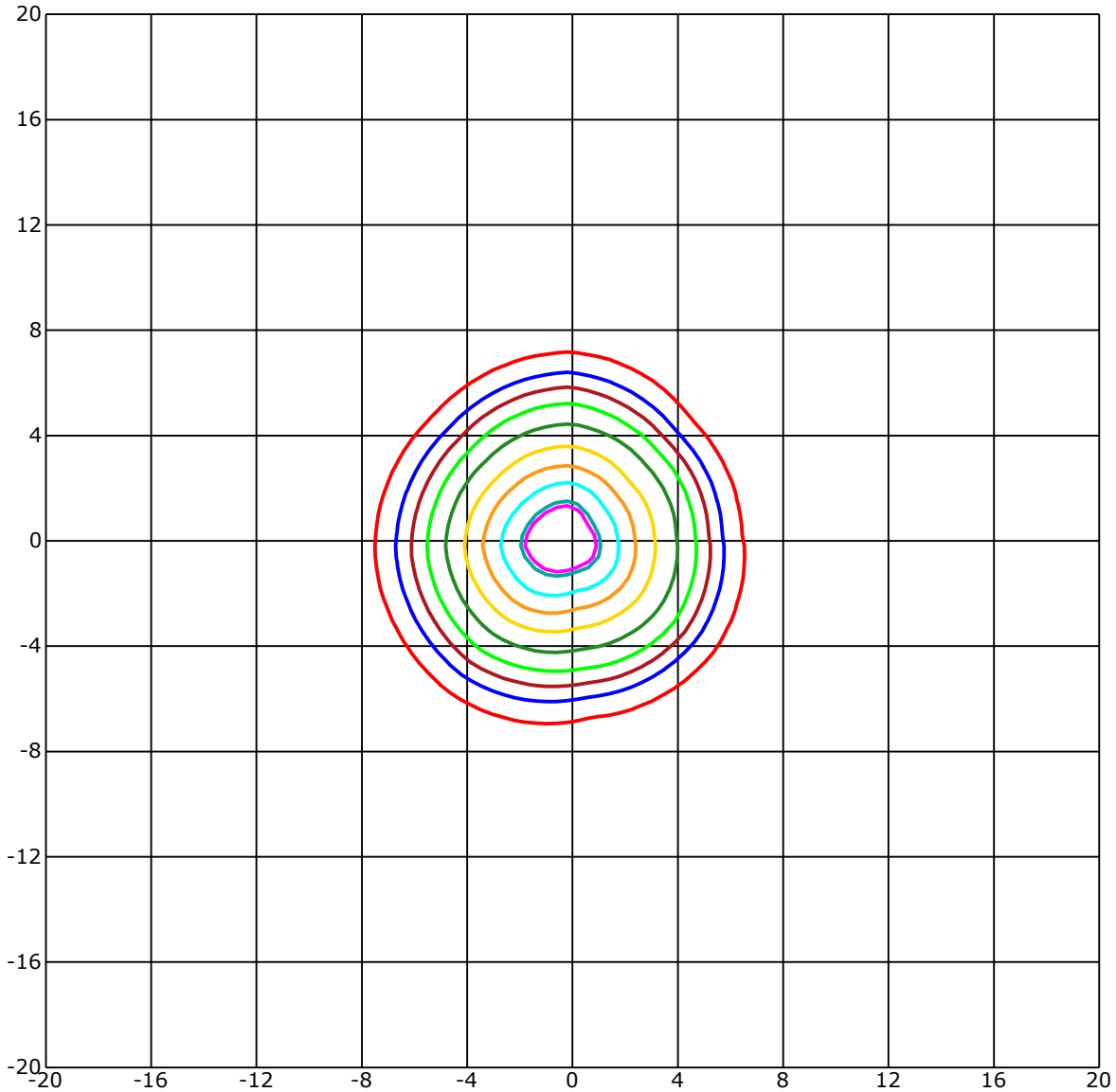
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/26 16:09:02

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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ISOLX DIAGRAM



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

— 13.504(92%Emax)	— 7.339(50%Emax)
— 13.211(90%Emax)	— 5.871(40%Emax)
— 11.743(80%Emax)	— 4.404(30%Emax)
— 10.275(70%Emax)	— 2.936(20%Emax)
— 8.807(60%Emax)	— 1.468(10%Emax)

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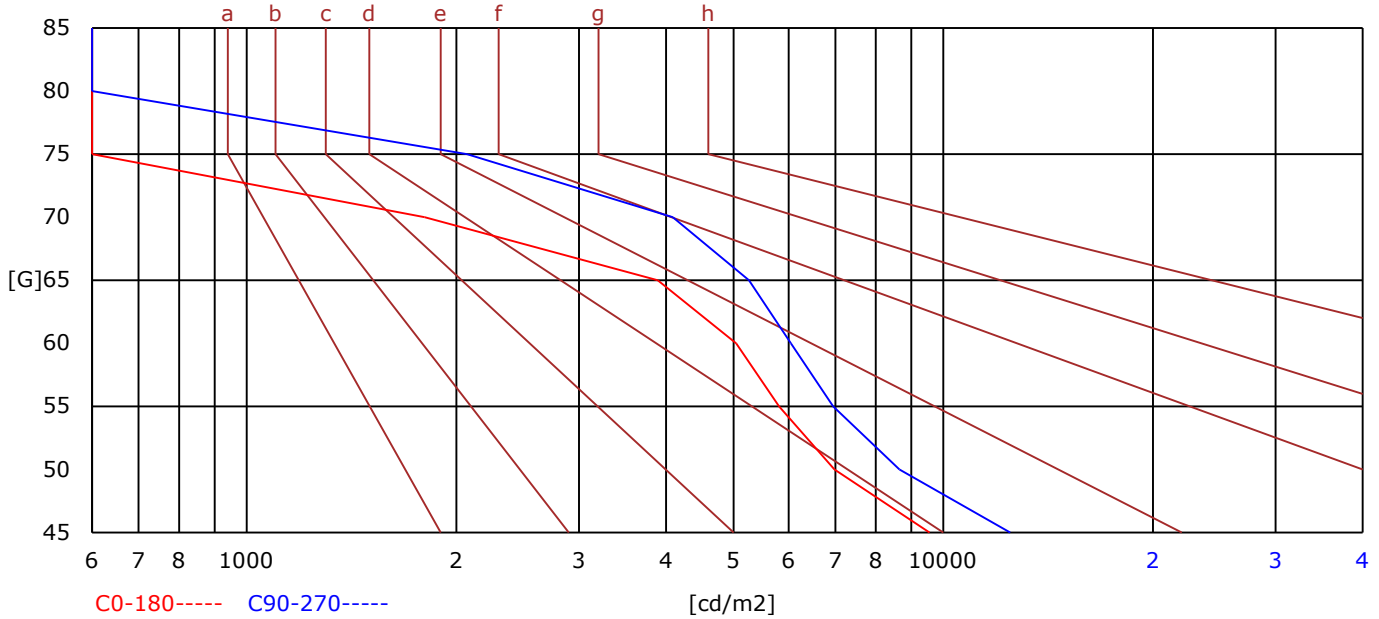
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.81 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9551	6978	5811	5043	3892	1801	448	0	0
C90	12482	8647	6948	6043	5264	4089	2072	376	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



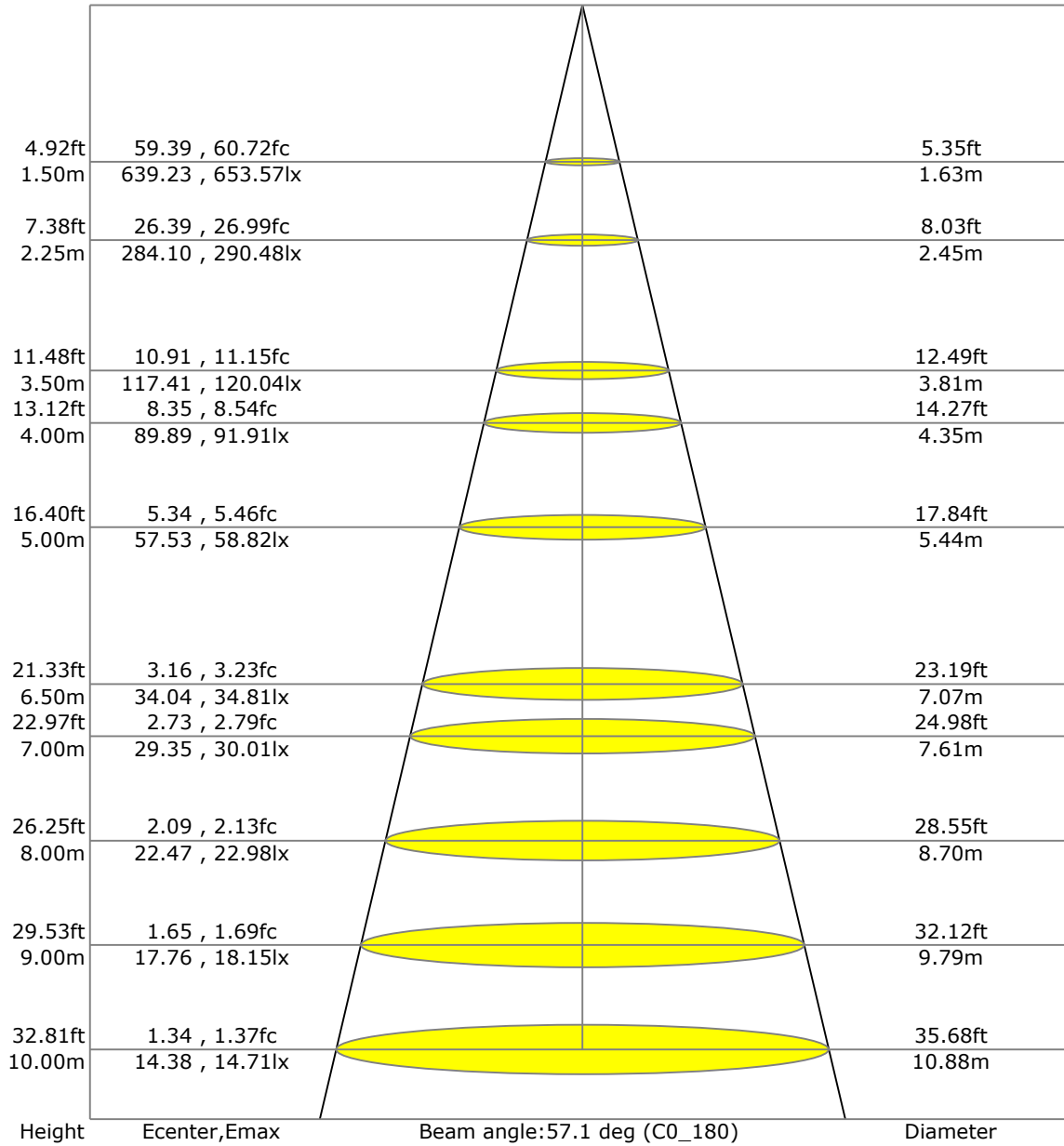
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 Test Speed: High
 Temperature: 25
 Operators: QC01
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.81 m
 Remarks:

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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: 2024/10/26 16:09:02

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.:

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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	Viewed Endwise					Viewed Crosswise				
2H 2H	10.26	10.31	10.46	10.50	10.74	10.61	10.66	10.80	10.84	11.09
3H	10.27	10.32	10.47	10.51	10.76	10.59	10.64	10.80	10.84	11.08
4H	10.25	10.30	10.46	10.50	10.75	10.58	10.63	10.79	10.83	11.07
6H	10.24	10.29	10.45	10.49	10.74	10.56	10.61	10.78	10.81	11.06
8H	10.23	10.28	10.45	10.48	10.73	10.55	10.60	10.77	10.81	11.06
12H	10.22	10.27	10.44	10.47	10.73	10.54	10.59	10.76	10.80	11.05
4H 2H	10.49	10.54	10.70	10.73	10.98	11.18	11.23	11.39	11.43	11.68
3H	10.49	10.54	10.71	10.75	11.00	11.17	11.22	11.39	11.43	11.68
4H	10.47	10.52	10.70	10.74	11.00	11.15	11.20	11.38	11.41	11.67
6H	10.45	10.50	10.69	10.72	10.98	11.13	11.17	11.36	11.39	11.66
8H	10.44	10.49	10.68	10.71	10.98	11.11	11.16	11.36	11.39	11.65
12H	10.43	10.47	10.67	10.70	10.97	11.10	11.14	11.35	11.38	11.65
8H 4H	10.46	10.51	10.68	10.71	10.97	11.21	11.26	11.43	11.46	11.71
6H	10.41	10.46	10.67	10.69	10.97	11.15	11.19	11.40	11.43	11.70
8H	10.40	10.44	10.66	10.68	10.96	11.13	11.17	11.39	11.42	11.69
12H	10.38	10.42	10.65	10.67	10.95	11.11	11.15	11.38	11.41	11.69
12H 4H	10.42	10.47	10.67	10.70	10.97	11.17	11.21	11.42	11.44	11.71
6H	10.40	10.44	10.66	10.68	10.96	11.14	11.18	11.40	11.43	11.70

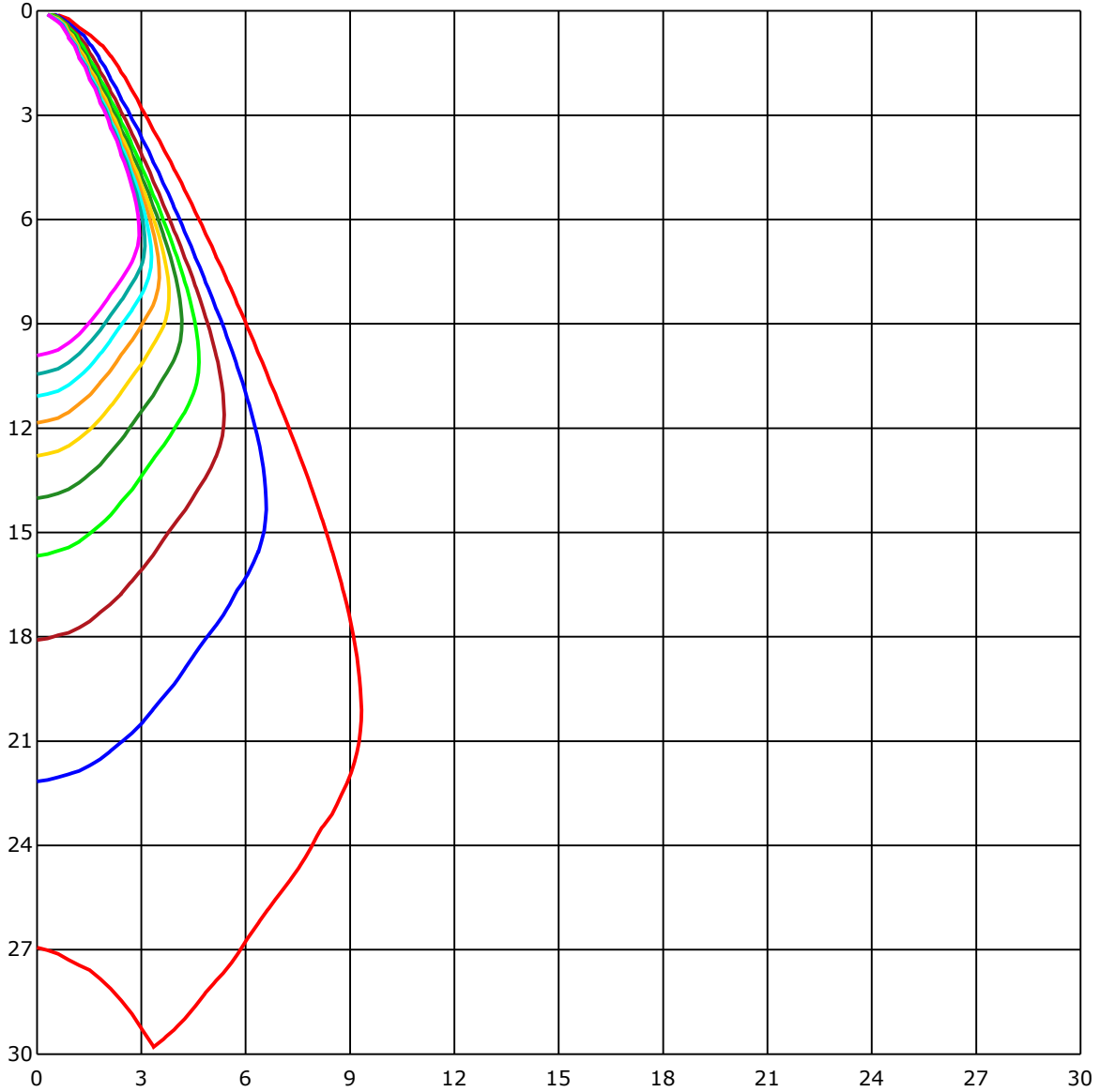
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|----------|---------|
| — 14.645 | — 7.322 |
| — 13.18 | — 5.858 |
| — 11.716 | — 4.393 |
| — 10.251 | — 2.929 |
| — 8.787 | — 1.464 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/10/26 16:09:02

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1438.26	1445.96	1442.81	1451.76	1438.26	1445.96	1442.81	1451.76	1438.26	
G1	1431.68	1434.83	1432.05	1463.07	1454.54	1448.7	1445.45	1440.44	1431.68	
G2	1418.0	1415.82	1432.88	1470.54	1466.46	1444.25	1437.85	1437.52	1418.0	
G3	1409.23	1399.63	1435.11	1464.0	1466.32	1442.67	1425.42	1423.79	1409.23	
G4	1389.75	1376.95	1433.11	1456.49	1462.56	1443.5	1407.38	1403.39	1389.75	
G5	1367.21	1357.38	1418.97	1444.71	1463.12	1444.01	1387.3	1384.93	1367.21	
G6	1336.42	1336.14	1405.1	1430.56	1468.78	1428.25	1362.81	1364.9	1336.42	
G7	1309.71	1312.68	1392.63	1415.96	1462.29	1416.93	1335.86	1340.18	1309.71	
G8	1281.93	1281.42	1377.23	1400.56	1449.76	1396.99	1316.94	1315.55	1281.93	
G9	1246.54	1250.76	1354.97	1383.49	1440.67	1382.7	1286.8	1290.37	1246.54	
G10	1209.77	1218.21	1328.91	1360.86	1421.98	1366.89	1258.37	1262.08	1209.77	
G11	1183.89	1189.92	1301.22	1330.16	1404.04	1355.16	1231.01	1230.68	1183.89	
G12	1151.57	1161.68	1272.93	1302.94	1378.53	1334.1	1200.31	1201.84	1151.57	
G13	1116.55	1131.62	1241.02	1272.93	1356.04	1307.99	1168.96	1171.69	1116.55	
G14	1087.01	1100.55	1208.05	1246.4	1332.43	1278.5	1141.04	1137.24	1087.01	
G15	1060.71	1071.06	1174.89	1221.22	1313.88	1254.84	1110.43	1110.48	1060.71	
G16	1039.1	1051.58	1147.25	1194.97	1289.67	1228.18	1085.66	1081.77	1039.1	
G17	1016.19	1020.83	1123.32	1163.44	1258.97	1200.82	1056.77	1056.03	1016.19	
G18	991.47	989.48	1101.11	1136.59	1231.47	1175.91	1031.36	1029.69	991.47	
G19	962.72	978.12	1070.78	1111.45	1206.85	1144.19	1009.47	1014.38	962.72	
G20	949.37	948.72	1045.22	1080.8	1174.43	1115.48	988.04	990.59	949.37	
G21	923.77	931.05	1023.61	1047.17	1154.49	1094.43	961.42	969.45	923.77	
G22	900.9	911.48	1009.52	1023.61	1123.83	1065.07	938.65	946.81	900.9	
G23	872.33	883.97	979.88	995.37	1088.31	1035.12	910.32	922.84	872.33	
G24	836.58	840.15	958.04	967.31	1056.49	1010.81	883.09	897.75	836.58	
G25	788.53	799.89	934.06	939.95	1028.16	979.51	849.05	867.23	788.53	
G26	725.6	744.43	903.96	902.29	991.29	955.58	807.92	828.51	725.6	
G27	656.18	673.57	868.44	860.93	961.24	924.92	751.2	774.57	656.18	
G28	575.43	598.16	825.26	815.94	918.62	885.6	683.17	709.51	575.43	
G29	492.7	514.4	768.5	756.9	876.55	836.67	608.73	634.15	492.7	
G30	415.11	431.21	705.29	687.15	819.42	775.73	527.67	549.19	415.11	
G31	341.65	354.82	624.92	607.67	751.25	707.51	446.32	467.33	341.65	
G32	279.14	290.31	538.15	524.93	674.91	625.85	374.35	391.83	279.14	
G33	233.32	236.47	455.78	442.89	592.55	543.34	311.14	325.75	233.32	
G34	195.01	195.38	377.04	364.1	505.87	460.05	256.74	271.39	195.01	
G35	164.91	163.8	307.15	296.62	422.81	383.58	216.07	228.96	164.91	
G36	139.92	137.64	250.48	239.12	346.24	314.11	183.74	195.94	139.92	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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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 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	119.6	117.01	205.91	193.16	280.71	258.64	155.96	167.6	119.6	
G38	103.23	100.45	172.29	159.3	228.31	216.95	133.8	144.42	103.23	
G39	89.74	87.23	145.16	132.68	187.78	182.95	115.43	125.26	89.74	
G40	78.05	76.47	124.1	111.12	157.03	155.17	99.48	109.54	78.05	
G41	68.45	67.52	107.22	94.42	132.96	133.66	86.49	95.81	68.45	
G42	60.71	60.01	93.77	81.58	112.79	114.69	76.01	85.05	60.71	
G43	53.89	53.61	82.6	71.37	97.81	99.66	66.83	75.18	53.89	
G44	47.77	47.81	73.6	63.35	85.66	86.96	59.22	67.11	47.77	
G45	43.41	43.22	66.09	56.49	75.78	76.75	52.92	60.38	43.41	
G46	39.42	39.47	59.69	50.74	67.57	68.54	47.35	54.72	39.42	
G47	36.17	36.17	54.45	45.45	60.98	61.26	42.53	49.95	36.17	
G48	33.34	33.44	49.76	41.6	55.28	55.47	38.77	45.73	33.34	
G49	30.84	30.89	45.68	38.21	50.6	50.64	35.62	42.16	30.84	
G50	28.85	28.71	42.34	35.57	46.24	45.96	33.02	39.33	28.85	
G51	26.76	26.71	39.37	32.88	43.04	42.43	30.61	36.87	26.76	
G52	25.09	25.04	36.82	30.89	40.25	39.65	28.71	34.6	25.09	
G53	23.42	23.56	34.55	28.94	37.98	37.47	26.99	32.42	23.42	
G54	22.17	22.31	32.56	27.04	35.9	35.25	25.18	30.56	22.17	
G55	20.82	21.33	30.47	25.51	33.81	33.25	23.74	28.89	20.82	
G56	19.62	19.99	28.85	24.02	32.14	31.54	22.59	27.27	19.62	
G57	18.64	18.97	27.45	22.77	30.47	29.96	21.29	26.02	18.64	
G58	17.85	17.95	26.34	21.56	28.94	28.34	20.17	24.53	17.85	
G59	16.74	17.07	24.86	20.31	27.5	27.22	18.97	23.23	16.74	
G60	15.77	16.14	23.65	19.34	26.11	25.65	18.09	22.03	15.77	
G61	14.79	15.16	22.45	18.18	24.81	24.44	16.97	20.87	14.79	
G62	13.73	14.1	21.61	17.3	23.61	23.14	16.05	19.66	13.73	
G63	12.61	13.12	20.27	16.23	22.45	22.08	14.93	18.6	12.61	
G64	11.41	11.78	19.2	15.35	21.33	20.92	14.05	17.34	11.41	
G65	10.2	10.53	17.9	14.24	20.27	19.9	13.03	16.14	10.2	
G66	8.72	9.14	16.79	13.36	19.01	18.78	11.87	14.84	8.72	
G67	6.91	7.42	15.49	12.24	17.99	17.99	10.71	13.26	6.91	
G68	5.66	5.75	14.28	11.22	16.83	16.65	9.41	11.69	5.66	
G69	4.68	4.78	12.85	10.06	15.68	15.54	7.84	9.88	4.68	
G70	3.94	3.94	11.13	8.95	14.52	14.24	6.17	8.63	3.94	
G71	3.29	3.39	9.28	7.19	13.4	12.89	5.24	7.7	3.29	
G72	2.55	2.64	8.25	5.75	11.97	11.27	4.5	6.82	2.55	
G73	1.95	1.95	7.23	4.92	10.16	9.69	3.76	6.08	1.95	

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/10/26 16:09:02

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

