

Report No.:

Test Time: 2025/1/7 14:12:51

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H57-60°-10W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 53 mm

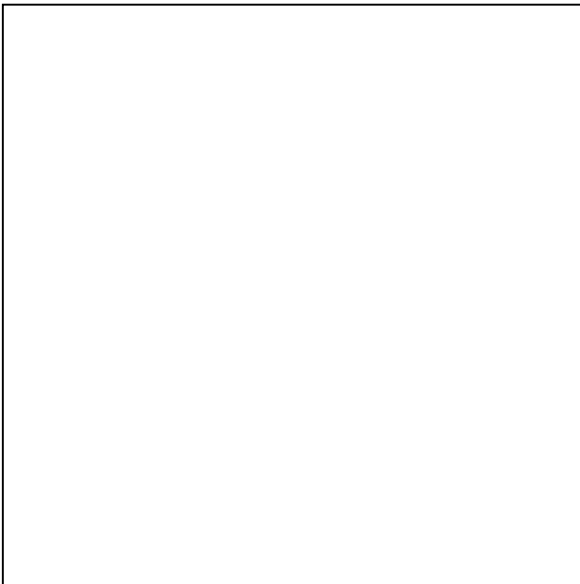
Voltage(V): 228.00 V
Current(A): 0.0520 A
Power(W): 10.82 W
Power Factor: 0.9050
Lamp Luminous Flux: 1142.05

Photometric Results

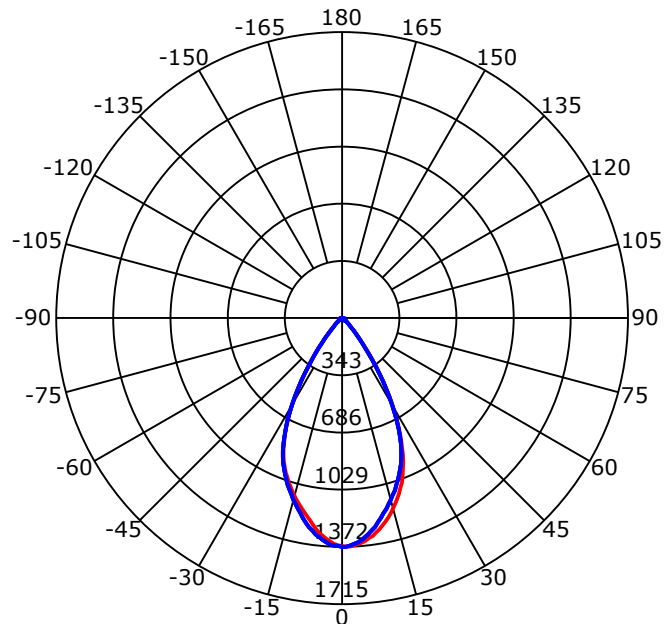
CIE Class: Direct
Luminaire Luminous Flux: 1142.047 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.57 lm/W
Beam Angle(50%) C0-180,C90-270: 56.6,56.5
Field Angle(10%) C0-180,C90-270: 82.4,81.9
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 1371.97 cd
Max.Intensity Angle: C=270 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1368.71 cd
Effective Luminous Flux: 1053.12 lm
ERP(ϕ use)(120deg): 1124.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.6 deg,56.5 deg

C0-180 — C90-270

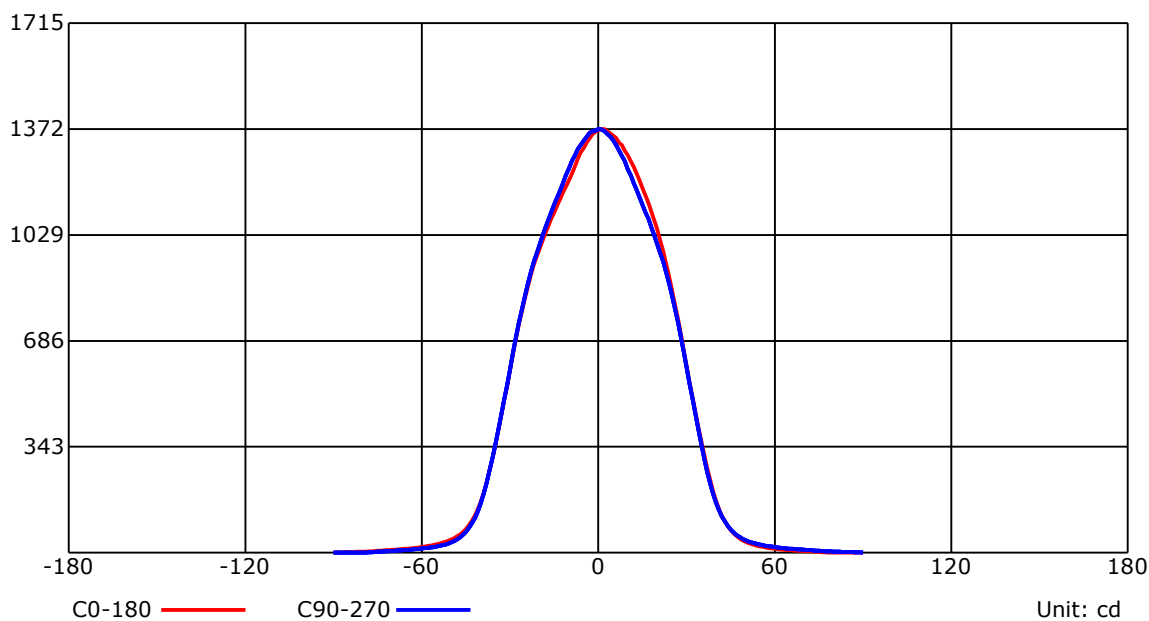
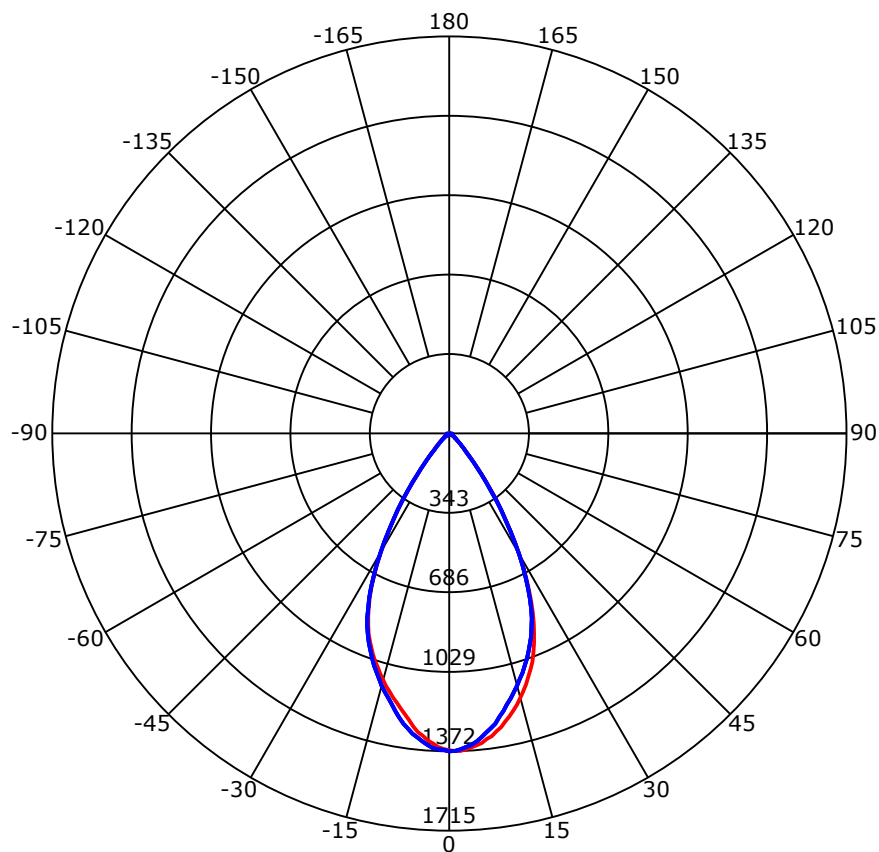
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:12:51

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.:

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Luminous Intensity Distribution Curve



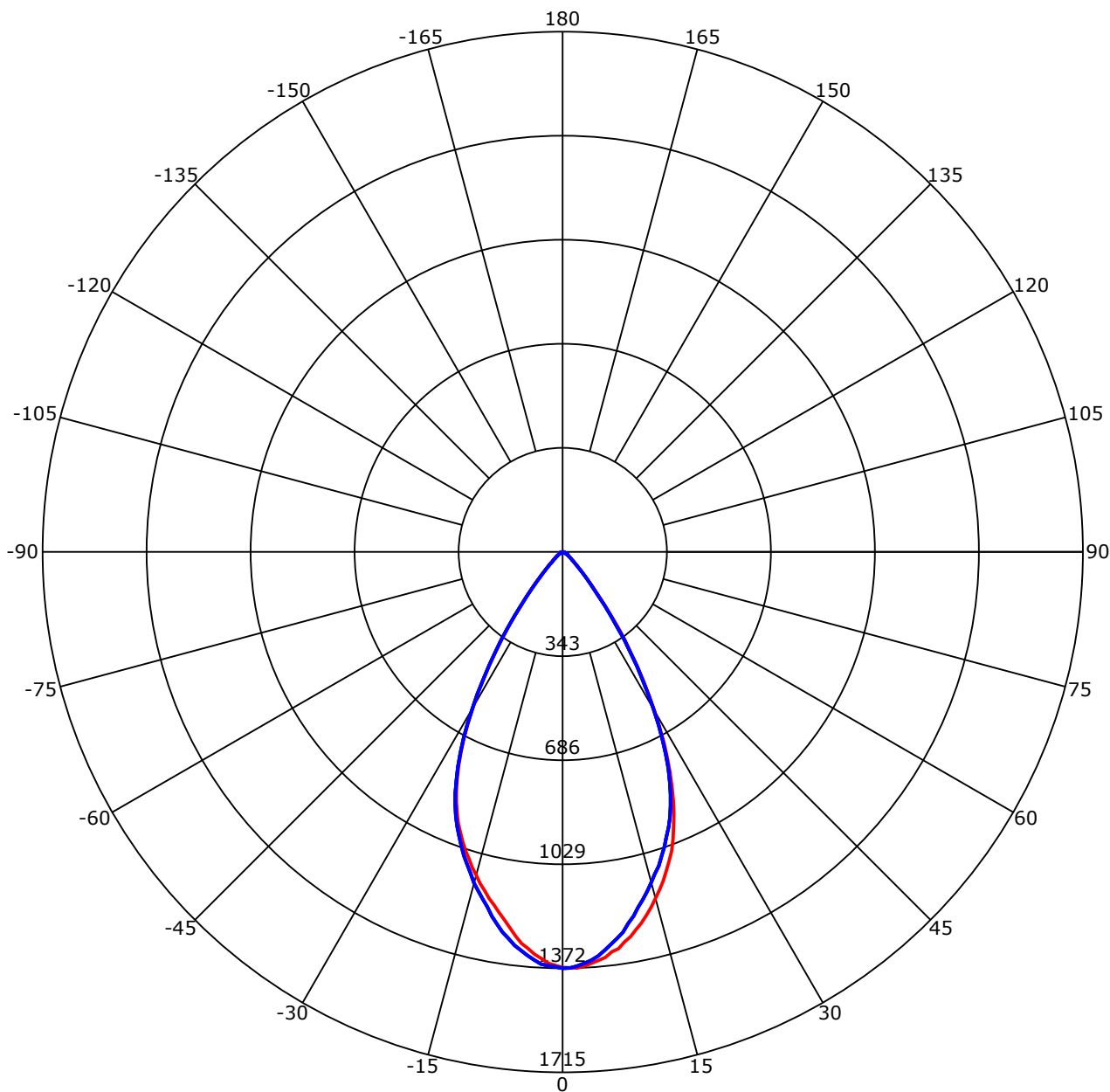
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:12:51

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 14:12:51

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

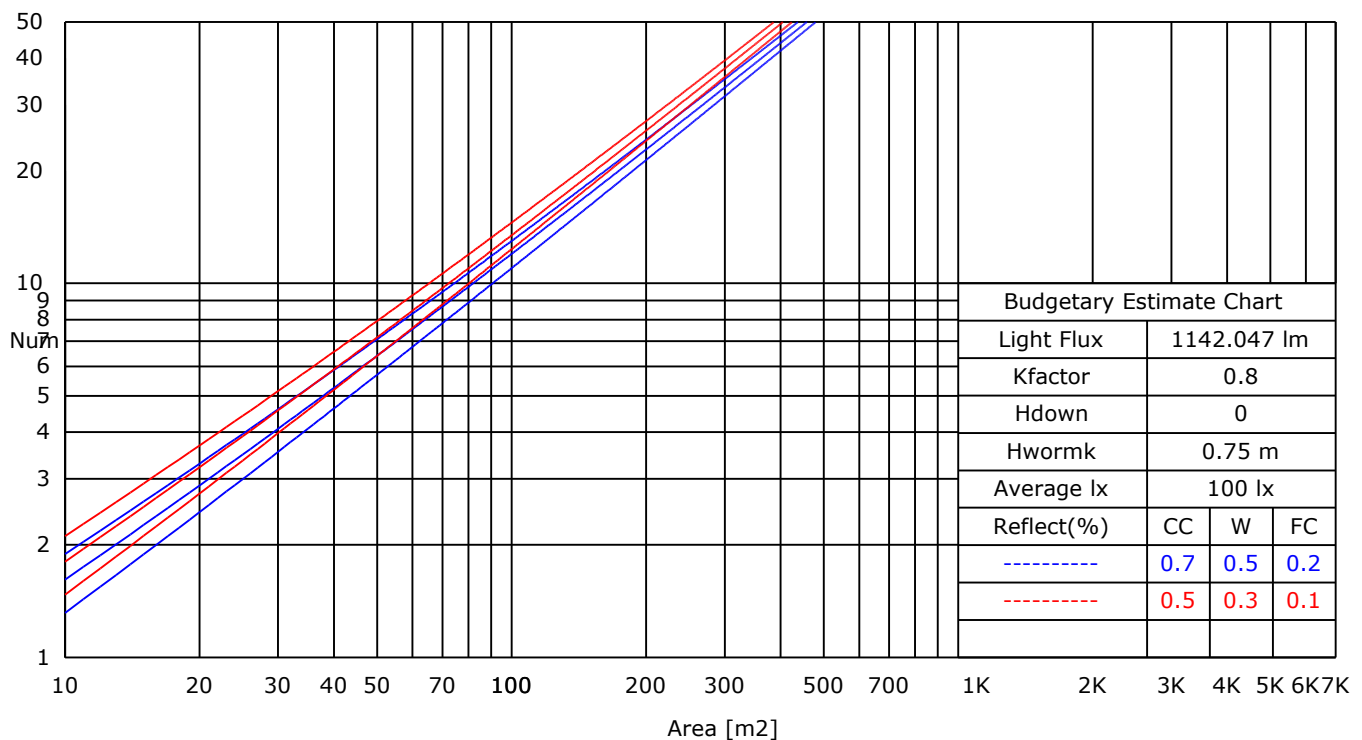
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UTILIZATION FACTORS TABLE

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	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.01	0.99	0.98	1.00	0.98	0.96	0.96	0.94	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.77
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	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	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.63
8	0.79	0.78	0.77	0.78	0.77	0.75	0.76	0.74	0.72	0.74	0.71	0.68	0.71	0.67	0.64	0.61
9	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.74	0.73	0.72	0.73	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



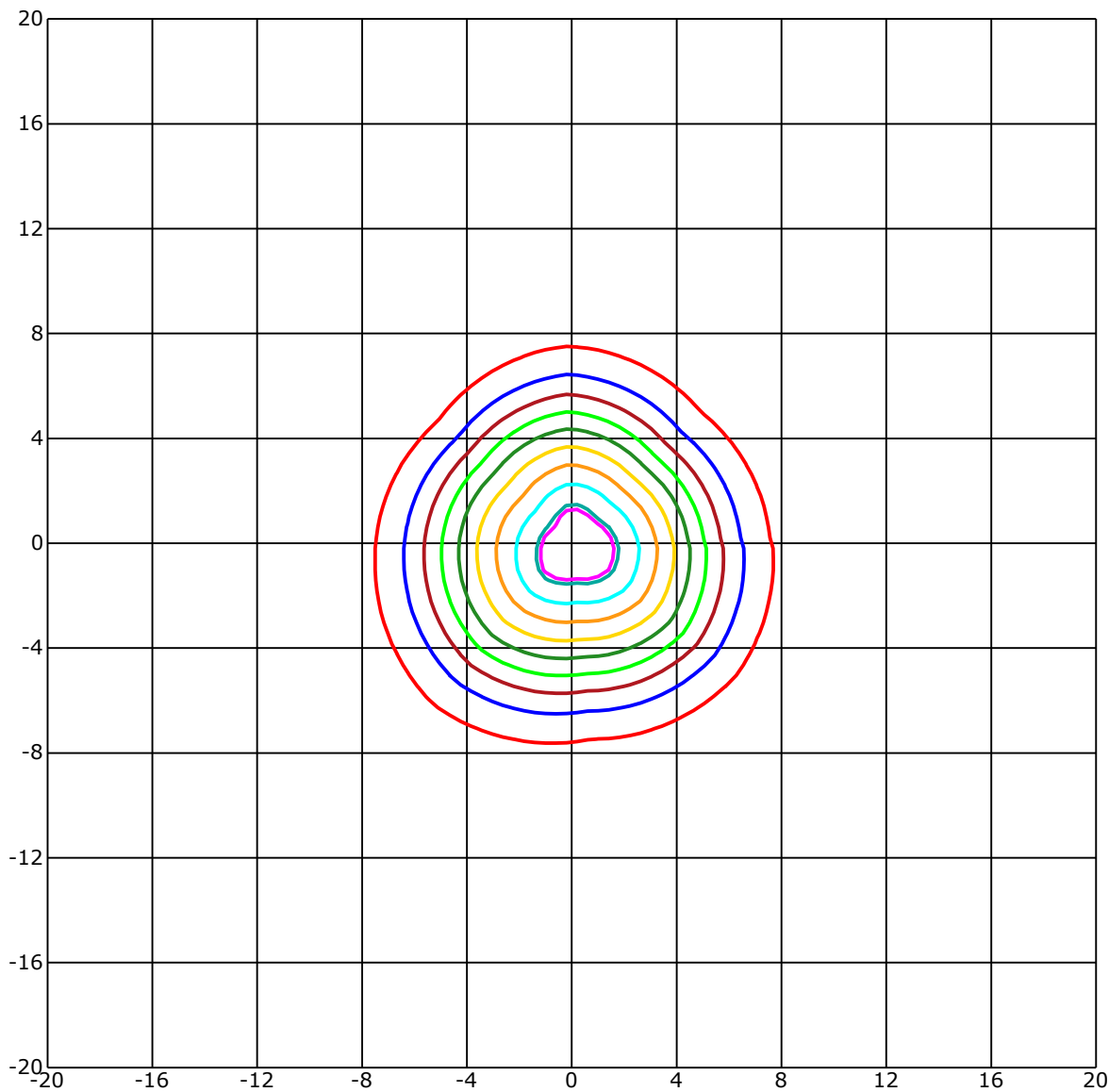
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:12:51

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



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

- | | |
|-----------------|----------------|
| 12.622(92%Emax) | 6.86(50%Emax) |
| 12.348(90%Emax) | 5.488(40%Emax) |
| 10.976(80%Emax) | 4.116(30%Emax) |
| 9.604(70%Emax) | 2.744(20%Emax) |
| 8.232(60%Emax) | 1.372(10%Emax) |

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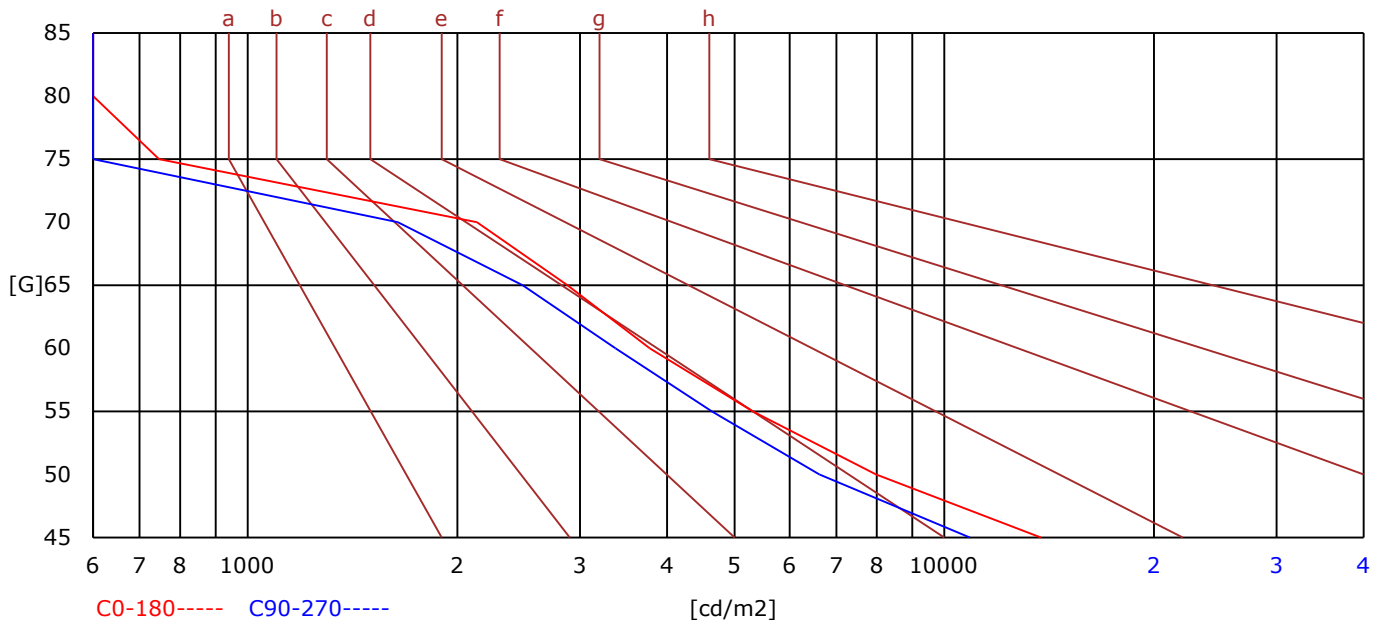
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13771	7979	5313	3778	2880	2135	746	0	0
C90	10886	6621	4639	3375	2483	1644	454	0	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



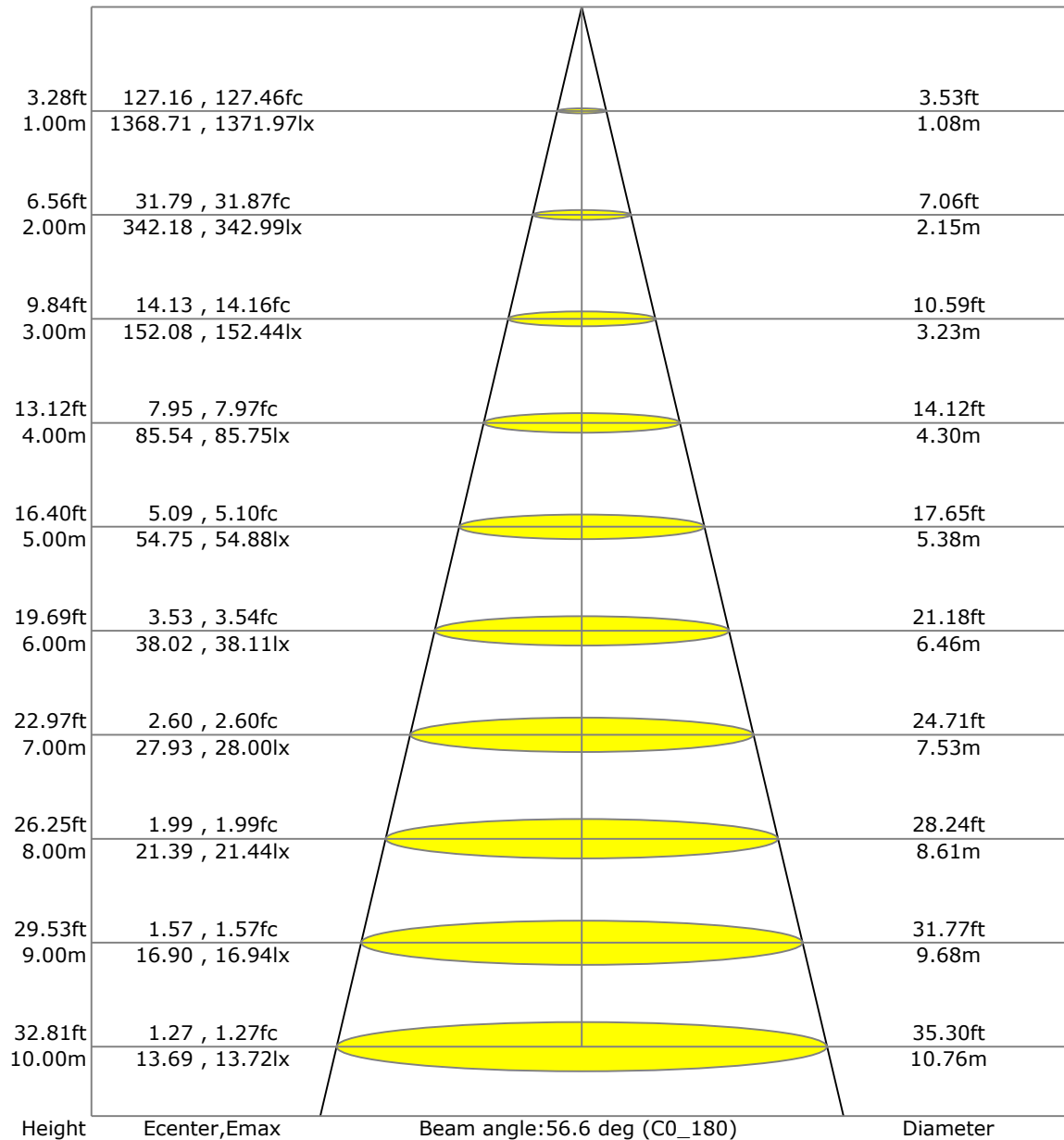
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 14:12:51

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.:

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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: 2025/1/7 14:12:51

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

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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	12.89	12.95	13.09	13.13	13.38	12.98	13.03	13.18	13.22	13.46
3H	12.88	12.93	13.08	13.12	13.37	12.96	13.01	13.16	13.20	13.45
4H	12.86	12.91	13.07	13.11	13.36	12.94	12.99	13.15	13.19	13.44
6H	12.85	12.90	13.06	13.10	13.35	12.92	12.97	13.14	13.18	13.43
8H	12.84	12.89	13.05	13.09	13.34	12.91	12.96	13.13	13.17	13.42
12H	12.83	12.88	13.05	13.08	13.34	12.90	12.95	13.12	13.16	13.41
4H 2H	12.96	13.01	13.17	13.21	13.46	13.18	13.23	13.39	13.43	13.68
3H	12.94	13.00	13.17	13.20	13.46	13.16	13.21	13.38	13.42	13.67
4H	12.93	12.98	13.15	13.19	13.45	13.14	13.19	13.37	13.40	13.66
6H	12.90	12.95	13.14	13.17	13.44	13.12	13.16	13.35	13.38	13.65
8H	12.89	12.94	13.13	13.16	13.43	13.10	13.15	13.34	13.38	13.64
12H	12.88	12.92	13.13	13.15	13.42	13.09	13.13	13.34	13.37	13.63
8H 4H	12.94	12.99	13.16	13.19	13.44	13.22	13.27	13.44	13.48	13.73
6H	12.86	12.91	13.12	13.15	13.42	13.16	13.20	13.41	13.44	13.71
8H	12.85	12.89	13.11	13.14	13.41	13.14	13.18	13.40	13.43	13.70
12H	12.83	12.87	13.10	13.13	13.41	13.12	13.16	13.39	13.42	13.70
12H 4H	12.88	12.92	13.13	13.15	13.42	13.21	13.26	13.46	13.49	13.76
6H	12.85	12.89	13.11	13.14	13.41	13.18	13.23	13.45	13.47	13.75

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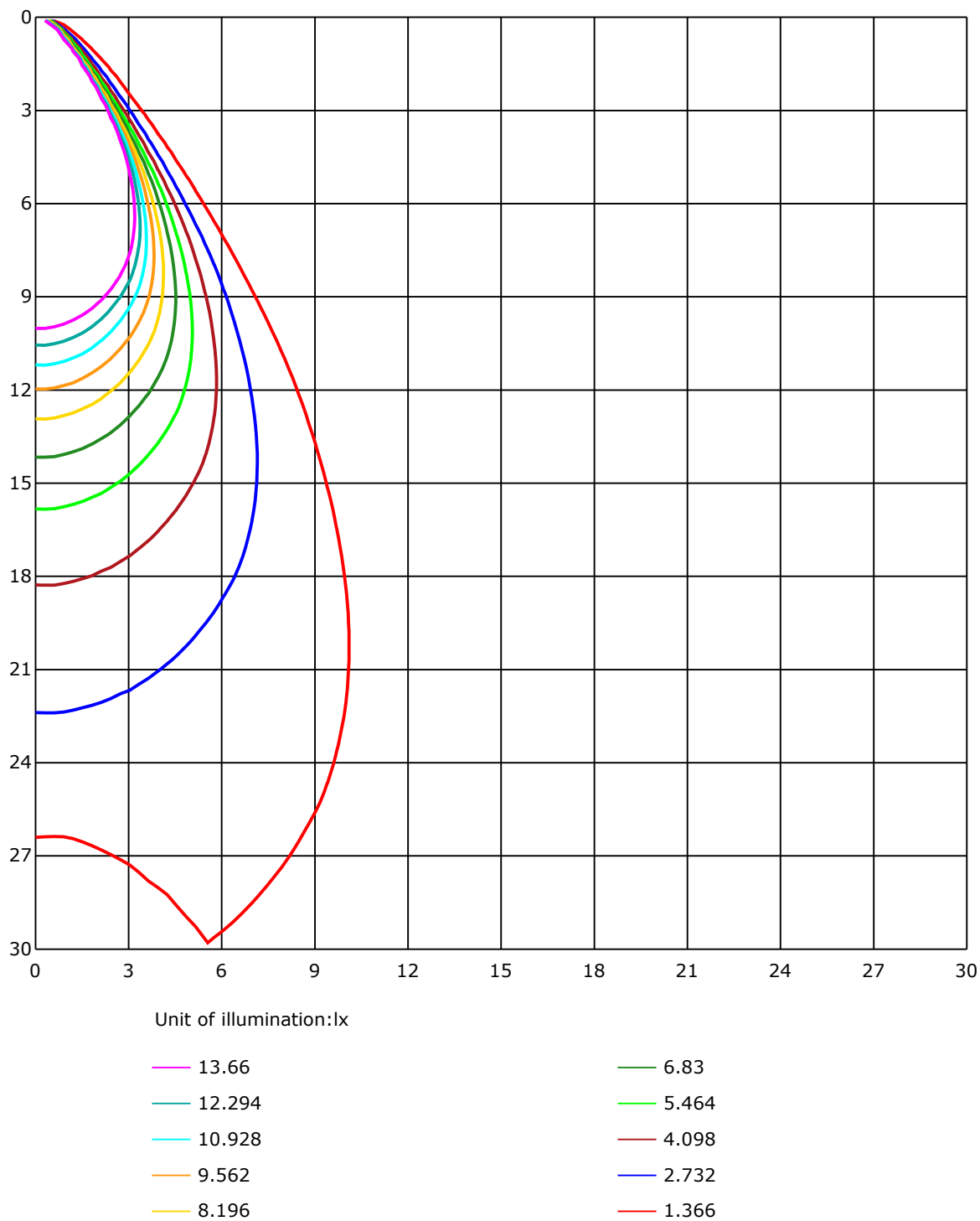
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 14:12:51

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: 2025/1/7 14:12:51

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1368.71	1367.33	1371.97	1352.07	1368.71	1367.33	1371.97	1352.07	1368.71	
G1	1370.73	1358.55	1371.51	1340.62	1363.01	1367.56	1367.33	1363.06	1370.73	
G2	1371.79	1348.07	1365.4	1328.17	1355.93	1369.08	1364.43	1367.1	1371.79	
G3	1366.18	1338.0	1356.99	1312.08	1341.54	1368.57	1359.84	1368.94	1366.18	
G4	1358.73	1327.84	1348.53	1292.13	1328.9	1361.95	1347.56	1370.18	1358.73	
G5	1351.47	1315.16	1336.3	1272.73	1311.39	1349.86	1334.37	1366.5	1351.47	
G6	1343.2	1298.52	1319.94	1250.07	1296.68	1339.98	1320.4	1359.61	1343.2	
G7	1327.84	1279.3	1302.42	1231.22	1275.49	1325.45	1306.51	1352.53	1327.84	
G8	1320.08	1258.43	1285.37	1204.19	1251.12	1315.43	1286.1	1342.83	1320.08	
G9	1301.6	1239.45	1268.73	1183.37	1228.0	1295.62	1269.0	1329.77	1301.6	
G10	1287.71	1219.08	1242.62	1159.19	1207.18	1277.92	1245.97	1312.9	1287.71	
G11	1267.3	1195.32	1222.21	1134.59	1185.62	1256.32	1222.62	1297.18	1267.3	
G12	1249.65	1168.15	1197.02	1113.81	1167.0	1237.7	1196.51	1276.96	1249.65	
G13	1227.95	1142.96	1174.91	1089.45	1145.12	1210.72	1173.02	1258.29	1227.95	
G14	1206.07	1117.4	1151.51	1065.59	1125.77	1189.11	1151.05	1237.65	1206.07	
G15	1181.57	1088.67	1127.42	1041.74	1102.74	1163.18	1129.44	1219.13	1181.57	
G16	1158.17	1062.15	1103.47	1016.04	1081.64	1140.71	1102.0	1199.45	1158.17	
G17	1133.03	1029.88	1081.5	990.94	1057.04	1116.99	1077.73	1177.48	1133.03	
G18	1104.44	998.48	1054.01	964.42	1035.44	1096.76	1052.77	1152.2	1104.44	
G19	1076.63	963.54	1027.95	939.92	1010.66	1074.1	1026.43	1127.84	1076.63	
G20	1049.05	928.79	999.77	908.2	985.7	1052.4	998.07	1103.06	1049.05	
G21	1013.37	888.48	972.23	877.58	959.31	1028.5	969.84	1077.45	1013.37	
G22	976.55	847.38	942.77	842.28	929.89	1004.69	939.96	1048.86	976.55	
G23	936.84	803.8	908.75	803.85	896.66	975.91	906.59	1021.28	936.84	
G24	896.66	760.18	873.72	762.71	861.17	946.72	870.41	987.95	896.66	
G25	852.3	710.3	834.92	719.22	823.39	913.94	830.42	954.03	852.3	
G26	806.56	662.36	793.14	672.66	783.62	878.32	789.65	917.99	806.56	
G27	758.34	614.05	748.32	625.68	738.11	840.35	744.73	879.84	758.34	
G28	709.06	565.96	699.59	573.92	691.41	800.68	697.71	837.5	709.06	
G29	657.12	515.17	651.14	521.33	644.02	756.46	649.53	790.61	657.12	
G30	605.54	467.59	600.49	467.45	593.13	710.03	596.85	740.92	605.54	
G31	554.29	420.29	548.86	417.07	540.82	661.62	546.01	690.45	554.29	
G32	502.8	377.58	496.83	368.53	491.31	612.8	495.22	636.57	502.8	
G33	453.71	334.37	446.81	321.92	442.54	563.39	445.76	583.84	453.71	
G34	407.0	293.0	398.45	275.4	396.66	514.57	398.18	530.29	407.0	
G35	362.09	252.6	352.16	232.42	350.05	466.95	352.16	478.35	362.09	
G36	318.93	216.37	305.69	194.08	306.15	421.62	307.8	426.04	318.93	

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: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	274.8	185.71	262.66	161.99	264.09	378.14	264.18	376.67	274.8	
G38	234.58	159.19	223.18	134.92	226.58	333.82	223.87	327.2	234.58	
G39	198.81	135.79	189.8	112.81	193.62	291.39	189.71	281.33	198.81	
G40	168.75	115.75	161.67	94.69	165.39	251.68	159.65	238.21	168.75	
G41	142.36	98.14	138.09	79.43	140.85	217.25	134.04	202.12	142.36	
G42	120.02	83.71	117.63	67.34	120.48	186.49	112.58	169.35	120.02	
G43	101.96	71.57	100.67	57.23	102.79	160.43	95.06	142.64	101.96	
G44	86.37	61.69	86.6	49.0	88.67	138.0	80.21	120.53	86.37	
G45	73.32	53.32	75.02	42.15	77.04	118.69	68.08	101.96	73.32	
G46	62.75	46.06	65.41	36.96	67.39	102.28	58.06	86.65	62.75	
G47	53.87	40.13	57.55	32.55	59.3	88.63	50.15	74.47	53.87	
G48	46.2	35.3	51.02	28.87	52.77	76.77	43.07	64.36	46.2	
G49	40.13	31.21	45.37	25.93	46.75	66.98	37.83	56.17	40.13	
G50	35.26	28.09	40.77	23.31	42.34	59.16	33.33	49.37	35.26	
G51	31.26	25.05	37.05	21.28	38.43	52.59	29.7	43.53	31.26	
G52	27.95	22.52	33.74	19.17	35.03	47.03	26.62	38.94	27.95	
G53	24.87	20.27	31.03	17.42	32.22	42.2	24.04	35.26	24.87	
G54	22.34	18.48	28.59	15.91	29.74	38.38	21.97	31.81	22.34	
G55	20.18	16.69	26.25	14.57	27.35	34.89	20.09	29.28	20.18	
G56	18.43	15.12	24.23	13.15	25.28	32.18	18.34	26.98	18.43	
G57	16.59	13.74	22.52	12.04	23.26	29.56	16.92	24.82	16.59	
G58	15.22	12.6	20.92	11.03	21.7	27.44	15.54	23.08	15.22	
G59	13.74	11.49	19.49	10.07	20.13	25.37	14.3	21.65	13.74	
G60	12.55	10.34	18.02	9.24	18.71	23.58	13.28	20.27	12.55	
G61	11.4	9.38	17.01	8.46	17.38	21.88	12.09	19.12	11.4	
G62	10.62	8.69	15.86	7.81	16.13	20.32	11.26	17.79	10.62	
G63	9.65	7.95	14.89	7.08	15.12	18.98	10.53	16.78	9.65	
G64	8.87	7.4	13.93	6.34	14.07	17.74	9.7	15.63	8.87	
G65	8.14	6.67	13.15	5.75	13.19	16.5	9.01	14.62	8.14	
G66	7.49	6.02	12.37	5.15	12.41	15.54	8.37	13.7	7.49	
G67	6.85	5.61	11.68	4.73	11.63	14.57	7.81	12.73	6.85	
G68	6.3	4.96	10.85	4.14	10.94	13.79	7.08	11.91	6.3	
G69	5.65	4.46	10.2	3.63	10.11	12.92	6.53	11.03	5.65	
G70	5.06	4.0	9.47	3.08	9.52	12.14	5.88	10.3	5.06	
G71	4.55	3.4	8.87	2.76	8.87	11.4	5.38	9.7	4.55	
G72	4.05	2.9	8.18	2.11	8.18	10.57	4.69	9.06	4.05	
G73	3.49	2.39	7.54	1.65	7.49	9.79	4.09	8.32	3.49	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 14:12:51

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: