

Report No.:

Test Time: 2025/7/17 11:23:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT075H86-38°-8W
Lamp Type:
Luminous Width: 63 mm
Luminous Length: 63 mm
Luminous Height: 65 mm

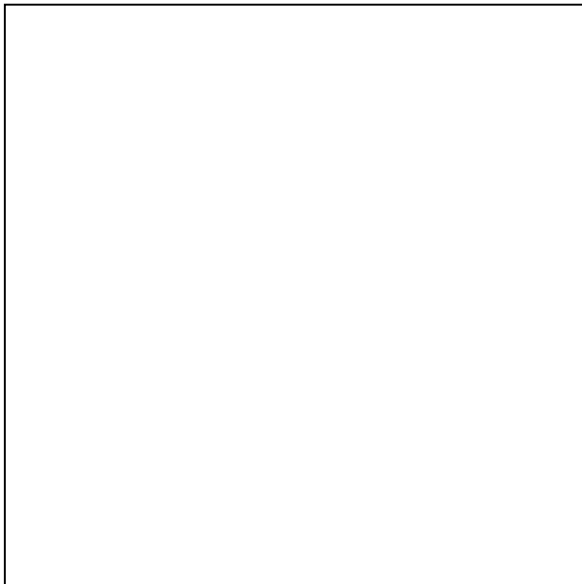
Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.66 W
Power Factor: 0.9310
Lamp Luminous Flux: 674.19

Photometric Results

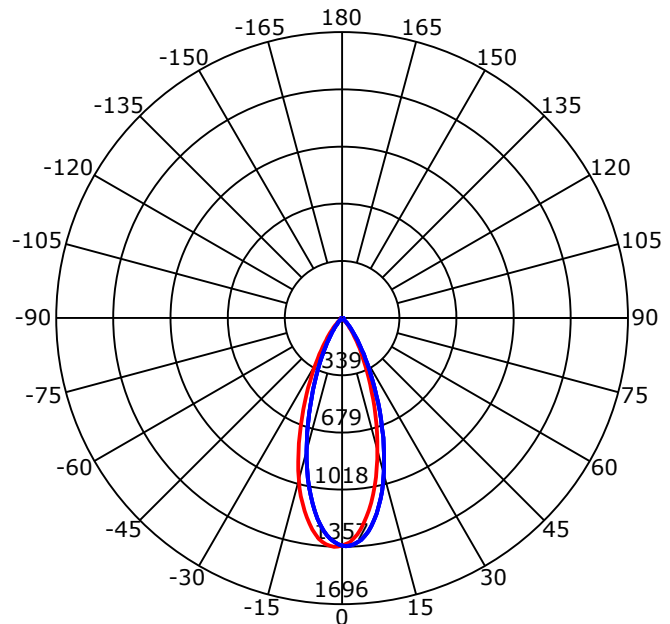
CIE Class: Direct
Luminaire Luminous Flux: 674.1897 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 77.82 lm/W
Beam Angle(50%) C0-180,C90-270: 38.7,37.9
Field Angle(10%) C0-180,C90-270: 71.1,69.2
S/MH C0-180,C90-270: 0.650,0.611

Max. Intensity: 1357.10 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1350.16 cd
Effective Luminous Flux: 608.71 lm
ERP(ϕ use)(120deg): 669.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.7 deg,37.9 deg

C0-180 — C90-270 —

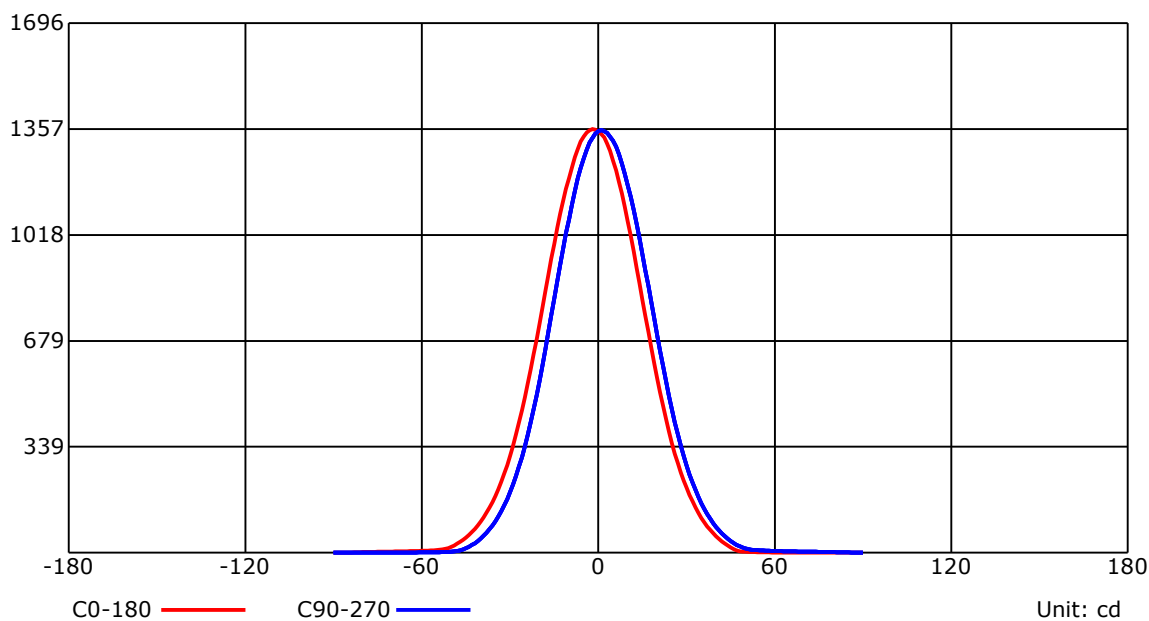
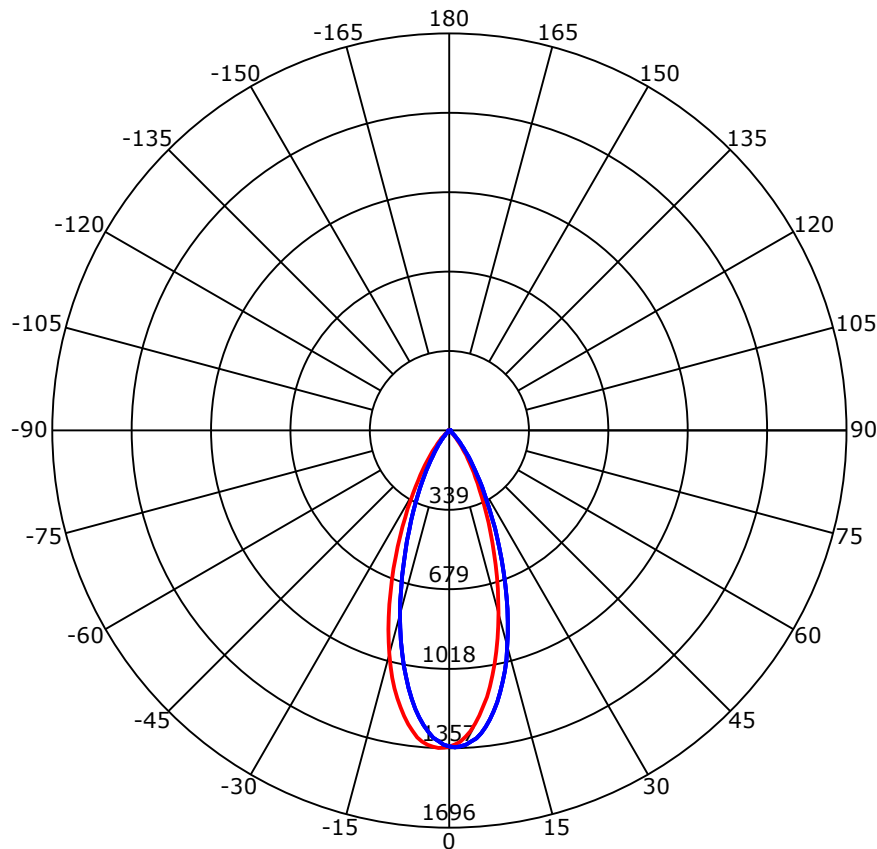
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

Luminous Intensity Distribution Curve



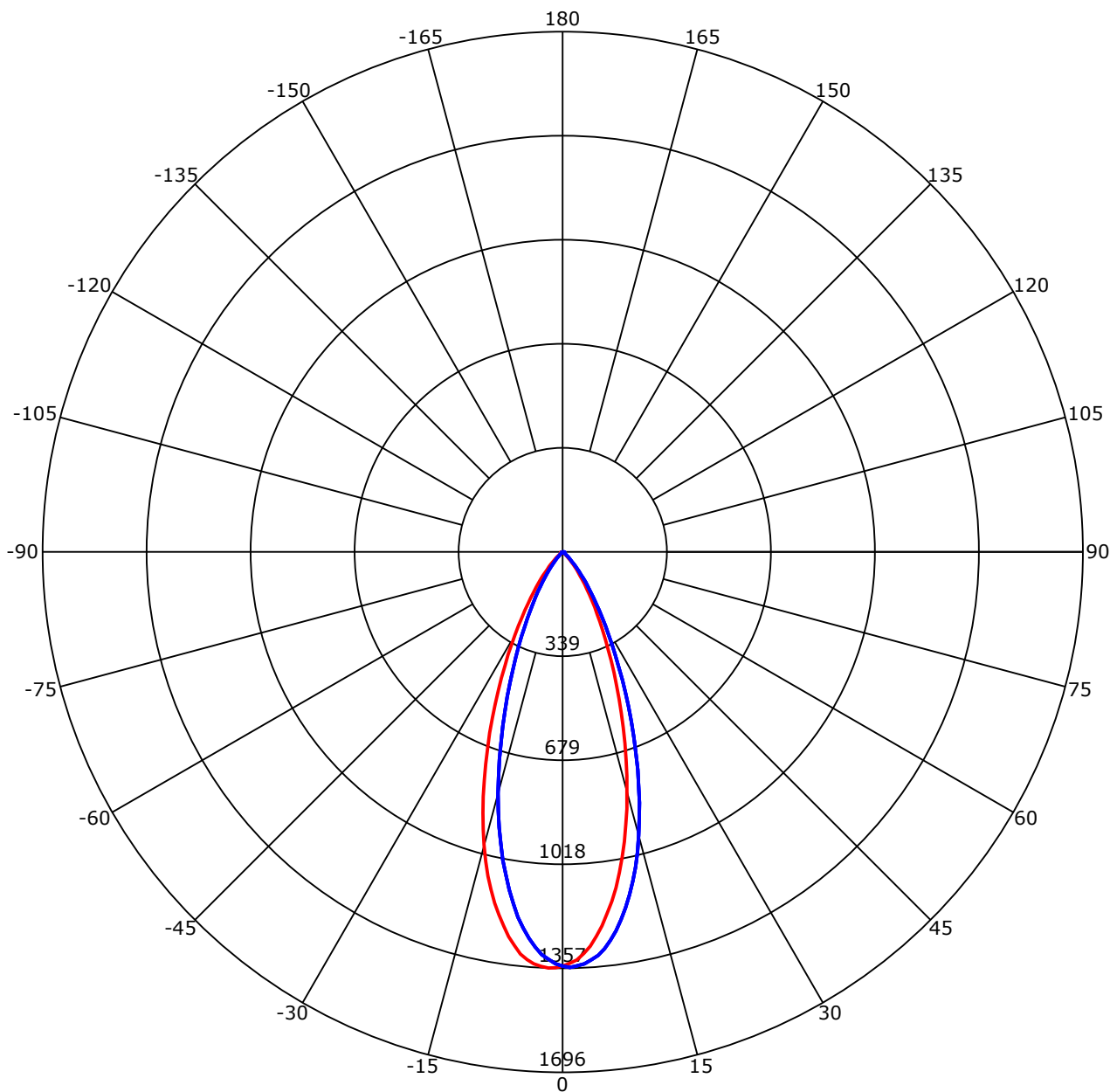
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

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: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

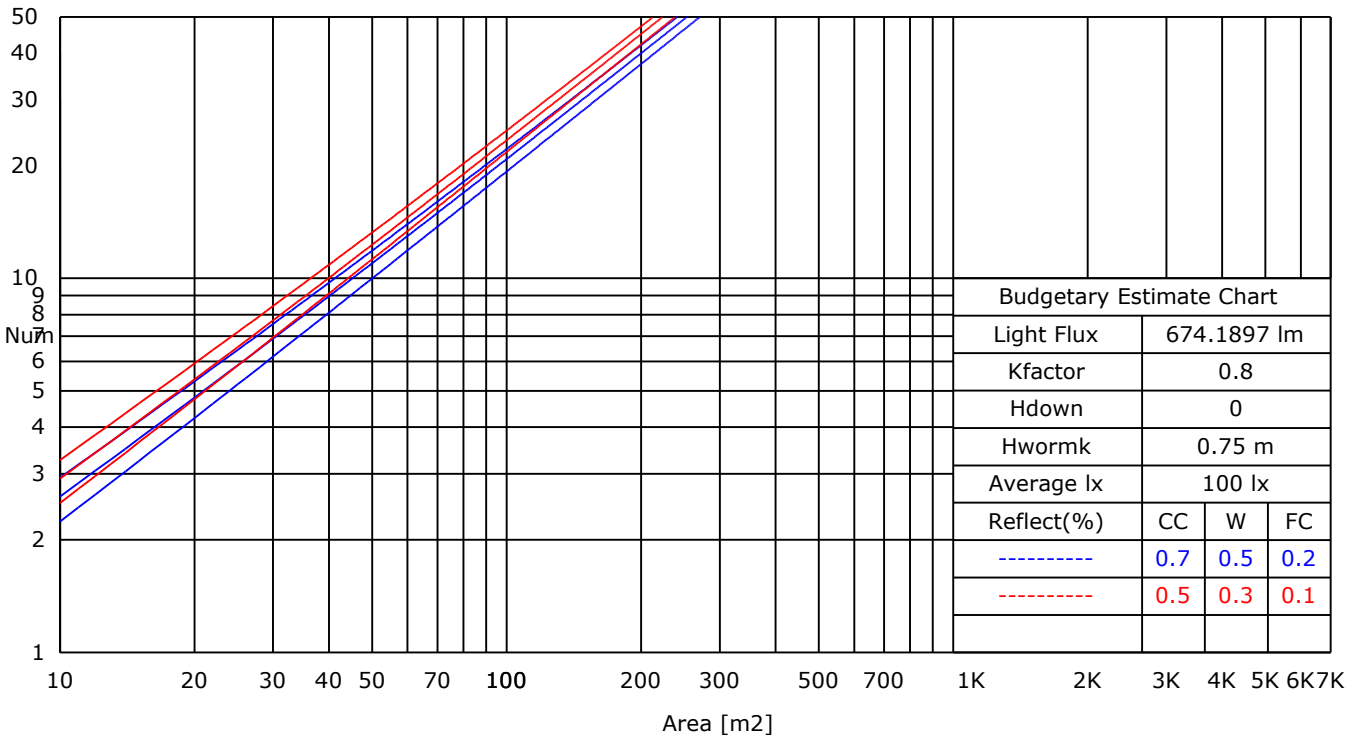
Report No.:

Test Time: 2025/7/17 11:23:54

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	1.03	1.01	1.00	1.02	1.00	0.98	0.99	0.96	0.94	0.94	0.91	0.89	0.88	0.85	0.83	0.78
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
3	0.93	0.91	0.90	0.92	0.90	0.88	0.90	0.87	0.84	0.86	0.83	0.80	0.82	0.78	0.75	0.70
4	0.90	0.88	0.87	0.89	0.87	0.85	0.87	0.84	0.81	0.83	0.80	0.77	0.79	0.76	0.72	0.68
5	0.87	0.85	0.84	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
6	0.85	0.83	0.82	0.84	0.82	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.76	0.71	0.68	0.64
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	0.80	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	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.71	0.73	0.69	0.67	0.70	0.66	0.63	0.60
10	0.76	0.75	0.74	0.75	0.74	0.72	0.73	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



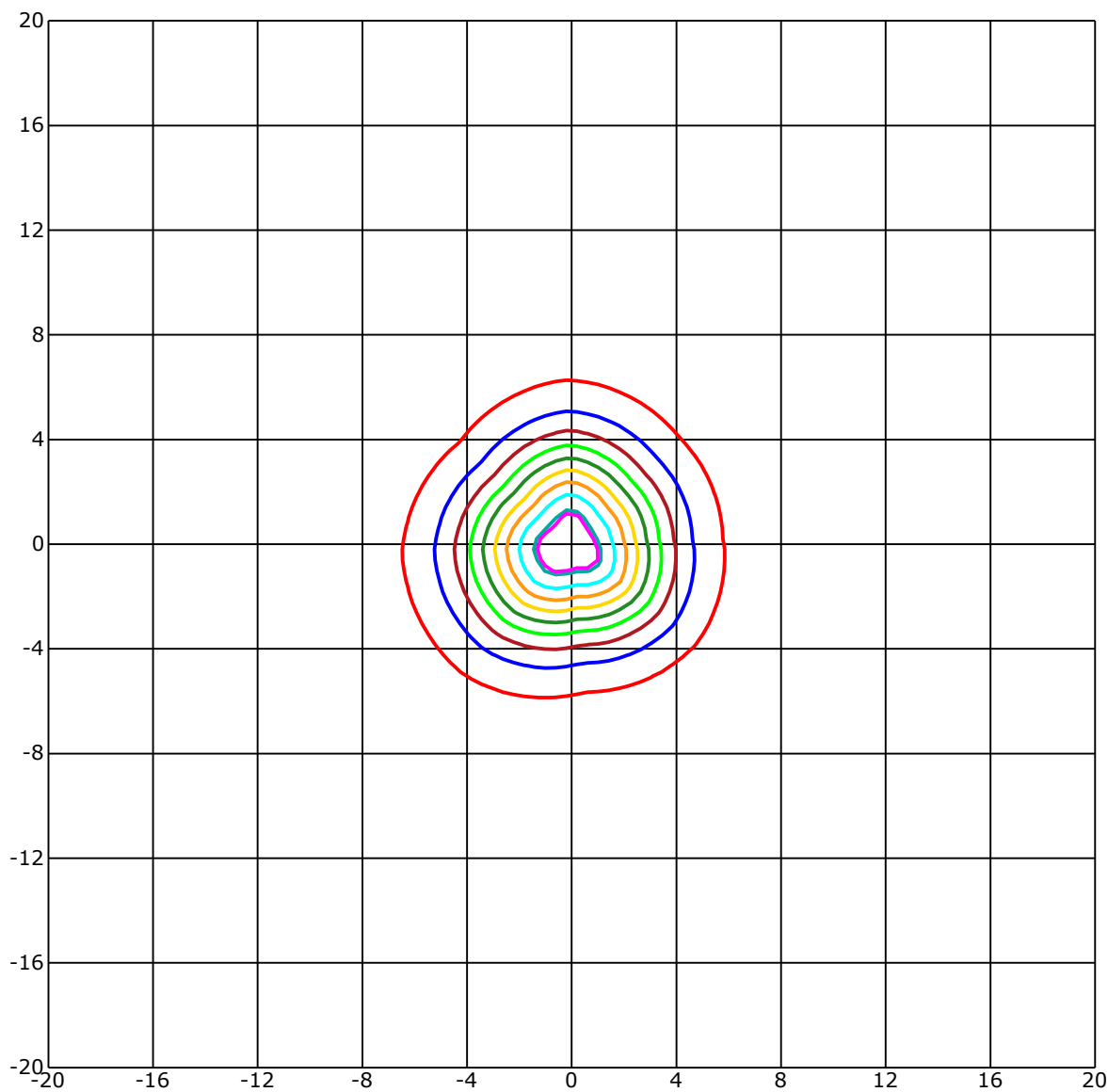
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

ISOLX DIAGRAM



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

12.464(92%Emax)	6.774(50%Emax)
12.193(90%Emax)	5.419(40%Emax)
10.838(80%Emax)	4.064(30%Emax)
9.483(70%Emax)	2.709(20%Emax)
8.128(60%Emax)	1.355(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

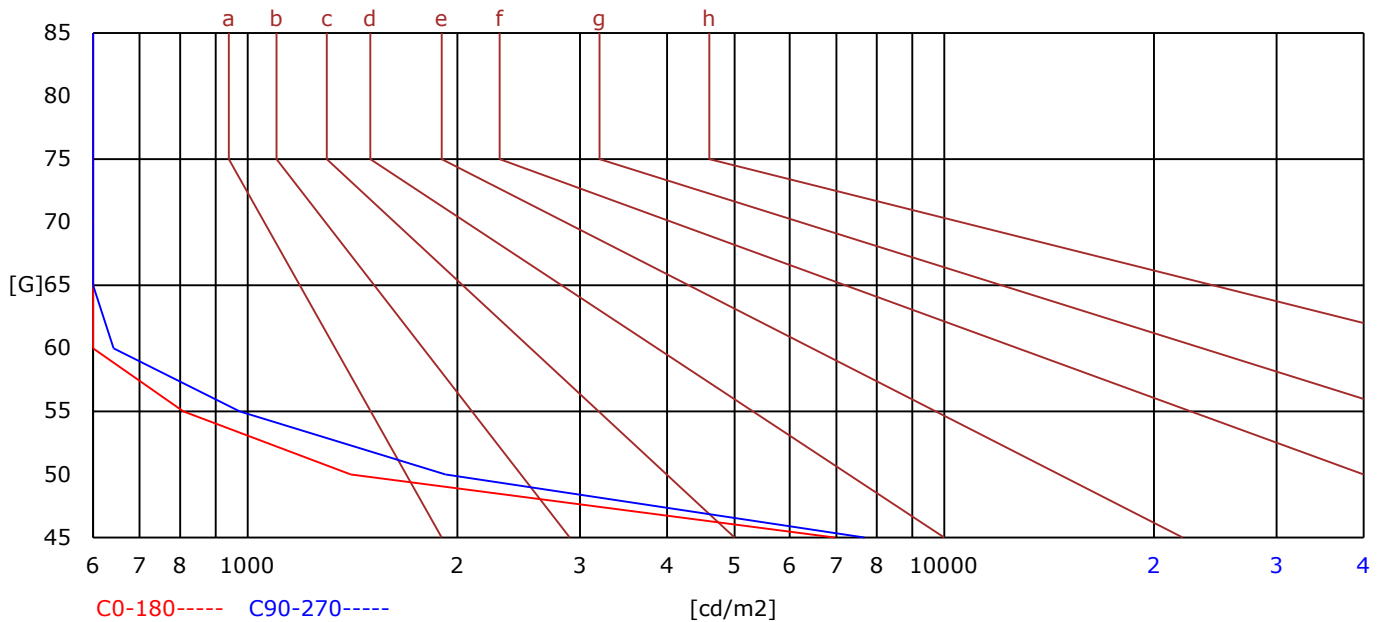
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	6962	1406	809	523	225	0	0	0	0
C90	7685	1924	974	642	478	348	138	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



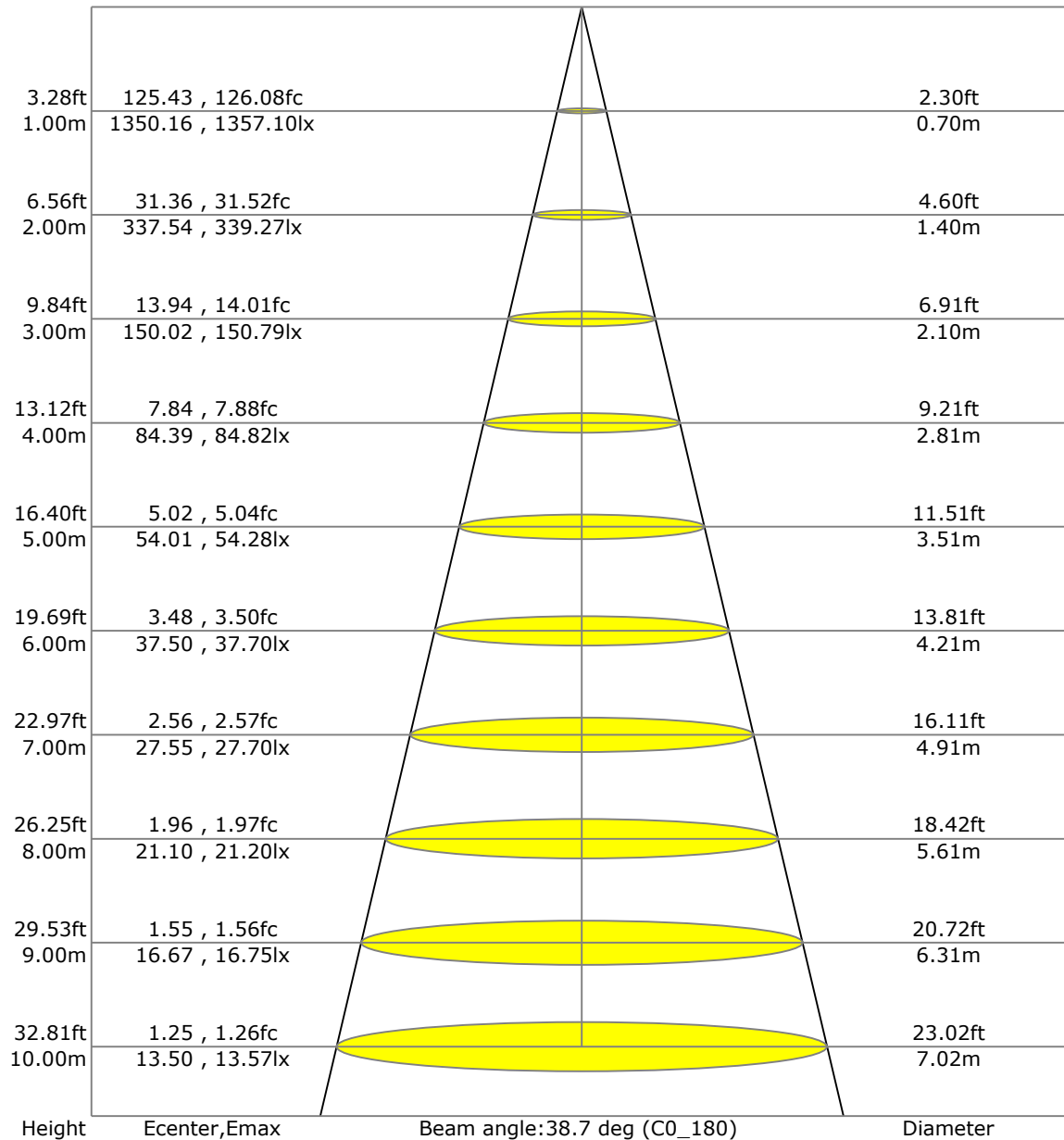
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

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	11.42	11.47	11.62	11.66	11.90	11.58	11.63	11.78	11.82	12.06
3H	11.40	11.45	11.60	11.64	11.89	11.56	11.61	11.76	11.80	12.05
4H	11.38	11.44	11.59	11.63	11.88	11.54	11.59	11.75	11.79	12.04
6H	11.37	11.42	11.58	11.62	11.87	11.53	11.58	11.74	11.78	12.03
8H	11.36	11.41	11.58	11.62	11.87	11.52	11.57	11.74	11.77	12.03
12H	11.35	11.40	11.57	11.61	11.86	11.51	11.56	11.73	11.77	12.02
4H 2H	11.38	11.43	11.59	11.63	11.88	11.66	11.71	11.87	11.91	12.16
3H	11.35	11.40	11.57	11.61	11.86	11.63	11.68	11.85	11.89	12.14
4H	11.33	11.38	11.56	11.60	11.86	11.61	11.66	11.84	11.87	12.13
6H	11.31	11.36	11.55	11.58	11.85	11.59	11.64	11.82	11.86	12.12
8H	11.30	11.35	11.54	11.58	11.84	11.57	11.62	11.82	11.85	12.12
12H	11.29	11.34	11.54	11.57	11.84	11.56	11.61	11.81	11.84	12.11
8H 4H	11.36	11.41	11.57	11.61	11.86	11.73	11.78	11.95	11.99	12.24
6H	11.27	11.32	11.53	11.56	11.83	11.66	11.71	11.92	11.95	12.22
8H	11.26	11.30	11.52	11.55	11.82	11.65	11.69	11.91	11.94	12.21
12H	11.24	11.28	11.51	11.54	11.82	11.63	11.67	11.90	11.92	12.21
12H 4H	11.28	11.33	11.53	11.56	11.83	11.71	11.76	11.96	11.99	12.26
6H	11.26	11.30	11.52	11.55	11.82	11.69	11.73	11.95	11.98	12.26

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

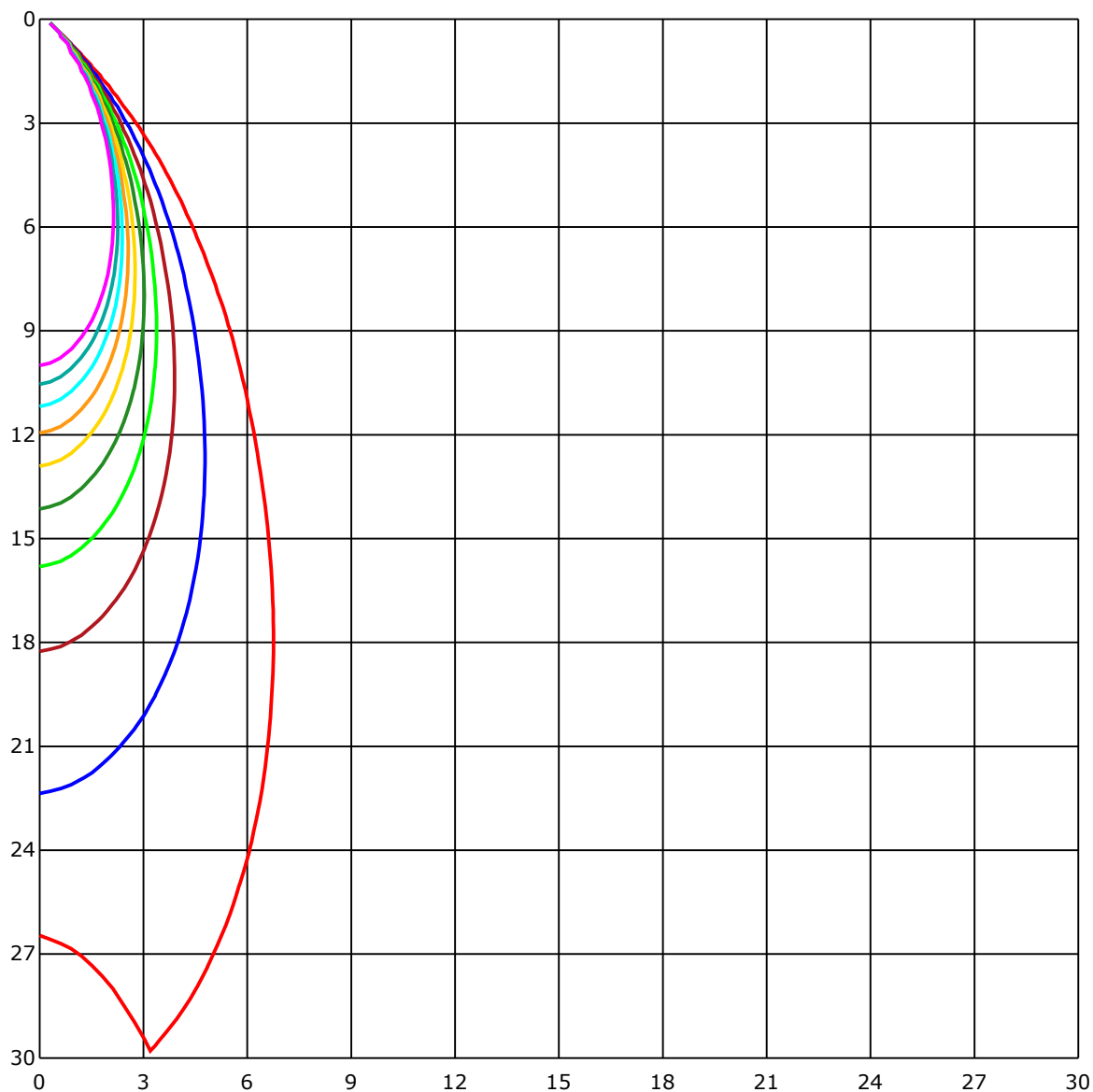
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

SPACE ISOLX DIAGRAM



Unit of illumination:lx

13.504	6.752
12.153	5.402
10.803	4.051
9.453	2.701
8.102	1.35

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1350.16	1343.79	1349.78	1350.45	1350.16	1343.79	1349.78	1350.45	1350.16	
G1	1340.72	1335.25	1354.08	1343.37	1355.35	1351.58	1342.66	1352.71	1340.72	
G2	1330.43	1320.57	1349.5	1330.72	1357.1	1351.63	1328.36	1352.14	1330.43	
G3	1310.42	1301.5	1344.69	1317.5	1352.57	1349.22	1314.06	1346.29	1310.42	
G4	1287.91	1274.03	1332.56	1296.92	1346.01	1342.37	1290.46	1336.14	1287.91	
G5	1256.85	1247.74	1320.24	1268.46	1333.5	1328.12	1264.22	1318.78	1256.85	
G6	1225.23	1214.8	1300.28	1239.72	1317.64	1309.76	1232.26	1298.91	1225.23	
G7	1187.14	1179.73	1275.83	1206.07	1292.53	1289.47	1198.9	1272.52	1187.14	
G8	1150.52	1138.44	1246.9	1170.15	1266.72	1261.48	1157.88	1241.37	1150.52	
G9	1108.18	1097.85	1213.39	1130.13	1233.96	1234.29	1114.7	1208.38	1108.18	
G10	1061.74	1052.26	1177.99	1087.28	1200.6	1200.03	1067.97	1171.99	1061.74	
G11	1013.27	1004.26	1138.77	1038.14	1165.62	1165.1	1022.66	1129.94	1013.27	
G12	965.08	957.29	1097.66	988.87	1125.88	1124.28	971.93	1083.45	965.08	
G13	912.27	907.5	1054.1	935.02	1085.15	1079.87	921.28	1035.93	912.27	
G14	863.23	856.2	1007.89	883.67	1039.89	1032.39	868.71	986.84	863.23	
G15	809.0	805.42	956.16	834.11	989.77	985.47	815.14	934.17	809.0	
G16	759.07	753.55	905.05	783.0	940.73	933.89	759.73	883.76	759.07	
G17	706.58	701.72	854.97	730.37	888.67	883.57	706.07	829.39	706.58	
G18	655.9	650.37	802.44	677.75	837.98	833.17	651.69	775.68	655.9	
G19	606.2	601.81	750.76	626.26	785.4	782.85	600.25	722.44	606.2	
G20	559.0	554.33	697.38	577.45	734.9	731.13	550.79	669.68	559.0	
G21	513.64	511.0	647.78	529.64	684.07	680.86	504.63	616.34	513.64	
G22	469.42	467.96	596.47	485.0	635.41	632.53	459.08	567.45	469.42	
G23	427.79	428.31	548.48	440.58	587.04	584.06	417.5	518.17	427.79	
G24	388.29	390.18	502.27	399.76	542.34	537.2	377.48	472.87	388.29	
G25	351.14	355.44	460.17	361.39	498.12	494.29	341.09	429.78	351.14	
G26	317.12	321.98	418.02	327.31	456.96	451.63	306.26	390.04	317.12	
G27	286.06	291.72	378.94	294.65	415.47	412.55	274.64	352.51	286.06	
G28	257.03	263.55	342.7	264.4	378.94	374.65	245.61	318.53	257.03	
G29	230.84	236.03	309.71	236.74	343.03	340.86	219.04	285.45	230.84	
G30	208.14	210.83	279.36	210.69	311.31	308.57	194.78	254.63	208.14	
G31	184.96	188.22	250.38	187.28	280.3	278.74	171.94	226.69	184.96	
G32	164.2	167.5	224.19	166.46	252.79	250.47	151.5	201.96	164.2	
G33	144.75	149.19	200.92	147.58	227.02	225.98	132.91	178.88	144.75	
G34	127.34	131.25	178.45	130.17	203.61	202.95	116.1	158.35	127.34	
G35	111.48	115.35	158.68	114.55	181.8	181.66	101.28	139.23	111.48	
G36	97.37	100.81	140.51	99.87	162.36	161.22	87.41	122.66	97.37	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

Report No.:

Test Time: 2025/7/17 11:23:54

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	84.39	87.74	124.32	86.94	144.28	144.19	75.18	107.47	84.39	
G38	72.78	76.03	108.55	75.47	128.28	127.53	64.23	94.02	72.78	
G39	62.54	65.65	95.1	64.75	113.08	112.75	54.56	82.08	62.54	
G40	52.95	56.02	82.69	55.55	99.68	98.92	45.21	71.31	52.95	
G41	43.99	47.06	71.93	46.72	87.46	86.51	37.47	61.31	43.99	
G42	36.29	38.98	61.69	39.27	76.18	75.28	30.44	52.29	36.29	
G43	29.36	32.05	52.86	32.38	65.75	65.37	24.68	43.99	29.36	
G44	22.98	25.49	44.51	26.67	56.78	56.16	19.21	37.14	22.98	
G45	16.66	19.54	37.33	21.57	48.57	47.72	14.63	30.73	16.66	
G46	11.61	14.4	30.73	16.99	41.39	40.59	10.52	25.06	11.61	
G47	7.36	10.19	25.25	12.46	34.74	33.79	7.5	20.01	7.36	
G48	4.86	6.99	20.29	9.16	28.65	27.52	5.29	16.05	4.86	
G49	3.49	4.86	16.47	6.47	23.03	22.09	4.11	12.98	3.49	
G50	3.02	3.59	13.55	4.91	18.45	17.65	3.16	10.86	3.02	
G51	2.5	3.02	11.37	3.73	14.77	14.11	2.64	9.53	2.5	
G52	2.31	2.5	9.82	3.26	12.08	11.56	2.22	8.64	2.31	
G53	1.89	2.41	8.92	2.78	10.29	9.72	2.03	7.88	1.89	
G54	1.7	2.03	8.02	2.5	9.11	8.68	1.79	7.46	1.7	
G55	1.46	1.84	7.65	2.22	8.31	8.02	1.75	6.84	1.46	
G56	1.23	1.6	7.08	2.03	7.74	7.36	1.51	6.56	1.23	
G57	0.99	1.42	6.7	1.79	7.27	7.03	1.32	6.14	0.99	
G58	0.94	1.25	6.23	1.6	6.84	6.56	1.18	5.71	0.94	
G59	0.76	1.09	5.9	1.42	6.47	6.18	0.99	5.29	0.76	
G60	0.66	1.04	5.38	1.27	6.14	5.62	0.9	5.0	0.66	
G61	0.61	0.94	5.14	1.18	5.71	5.43	0.8	4.77	0.61	
G62	0.52	0.76	4.96	1.18	5.52	5.1	0.66	4.63	0.52	
G63	0.45	0.61	4.67	0.9	5.19	4.91	0.66	4.25	0.45	
G64	0.38	0.47	4.53	0.9	4.96	4.63	0.52	4.06	0.38	
G65	0.42	0.38	4.29	0.8	4.67	4.48	0.52	3.96	0.42	
G66	0.38	0.28	4.15	0.66	4.63	4.29	0.42	3.68	0.38	
G67	0.28	0.28	4.06	0.52	4.25	4.01	0.33	3.45	0.28	
G68	0.24	0.19	3.68	0.52	4.2	3.78	0.19	3.49	0.24	
G69	0.19	0.0	3.59	0.42	3.92	3.78	0.24	3.21	0.19	
G70	0.14	0.0	3.45	0.47	3.82	3.49	0.28	3.02	0.14	
G71	0.0	0.0	3.26	0.38	3.45	3.45	0.09	2.78	0.0	
G72	0.0	0.0	3.07	0.35	3.3	3.11	0.09	2.74	0.0	
G73	0.0	0.0	3.02	0.33	3.16	3.07	0.0	2.6	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/17 11:23:54

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

