

Report No.:

Test Time: 2025/7/19 11:58:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT080-38°-8W
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 72 mm
Luminous Height: 68 mm

Voltage(V): 219.80 V
Current(A): 0.0420 A
Power(W): 8.70 W
Power Factor: 0.9310
Lamp Luminous Flux: 702.06

Photometric Results

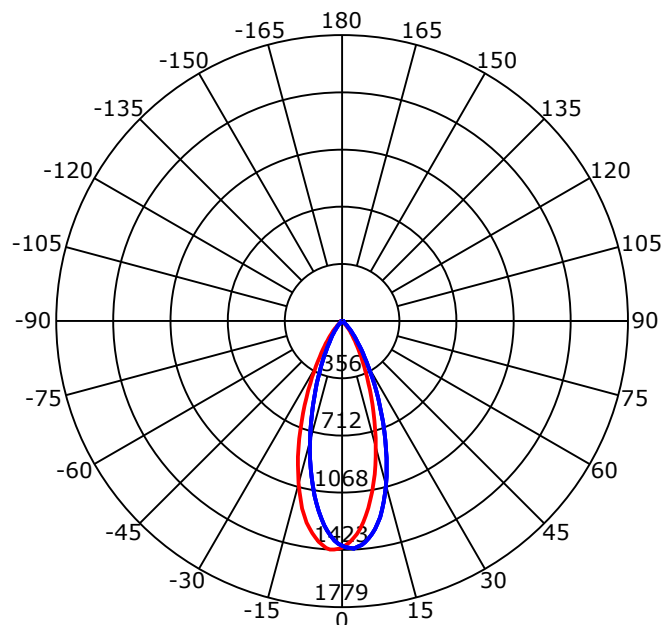
CIE Class: Direct
Luminaire Luminous Flux: 702.0609 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 80.72 lm/W
Beam Angle(50%) C0-180,C90-270: 38.1,37.6
Field Angle(10%) C0-180,C90-270: 70.8,69.2
S/MH C0-180,C90-270: 0.650,0.611

Max. Intensity: 1423.41 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1409.06 cd
Effective Luminous Flux: 629.85 lm
ERP(ϕ use)(120deg): 698.48 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.1 deg,37.6 deg

C0-180 — C90-270

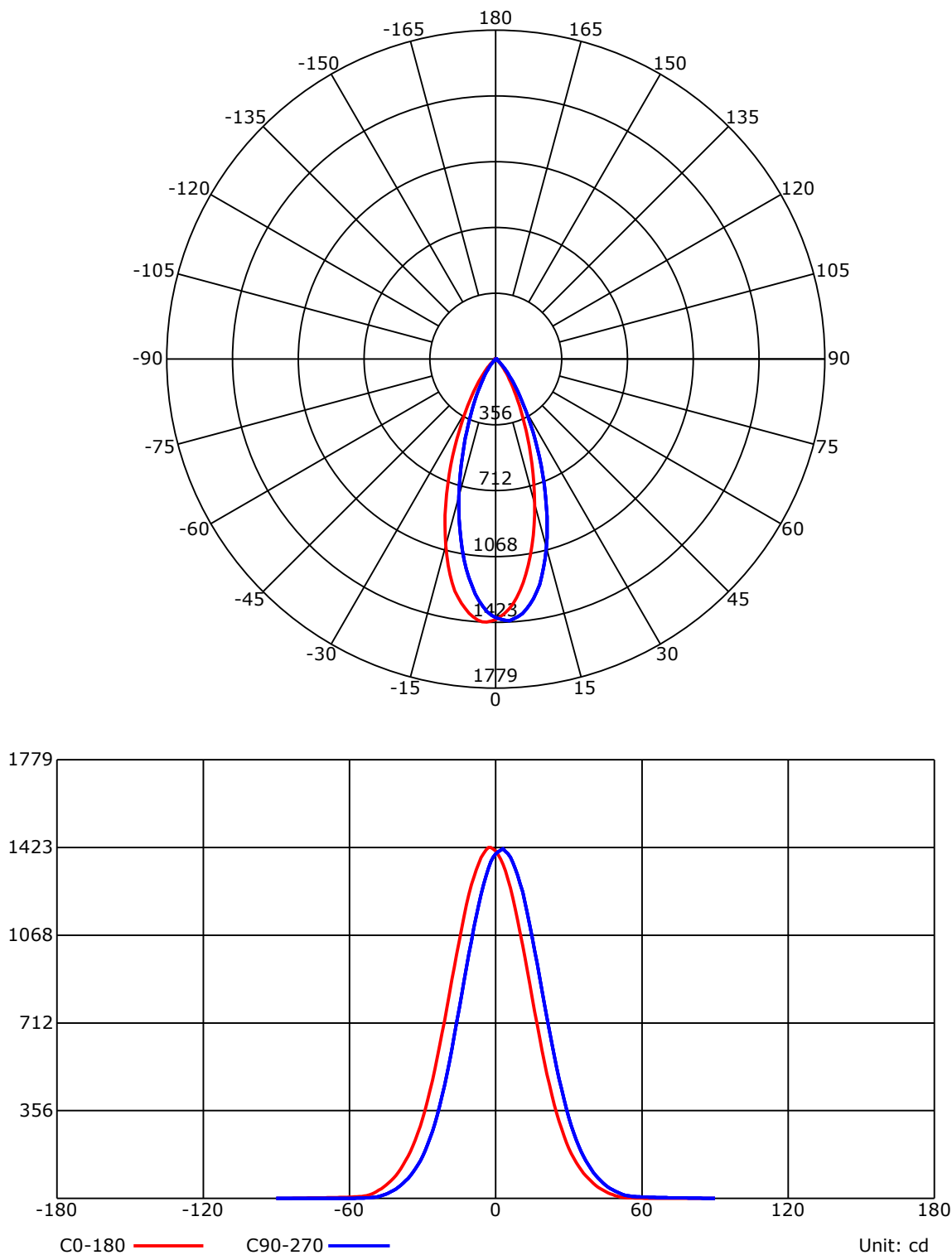
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

Luminous Intensity Distribution Curve



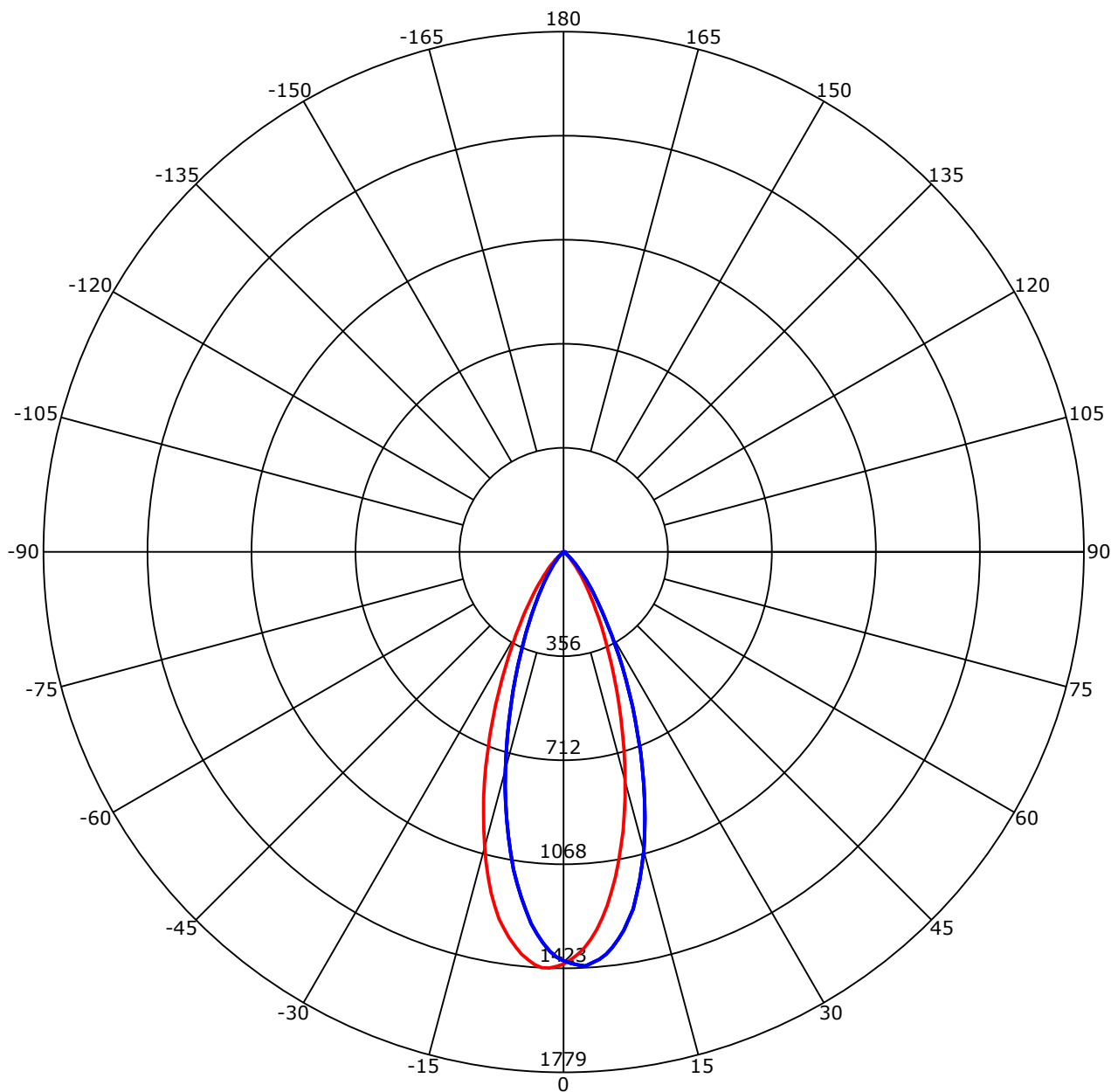
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

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

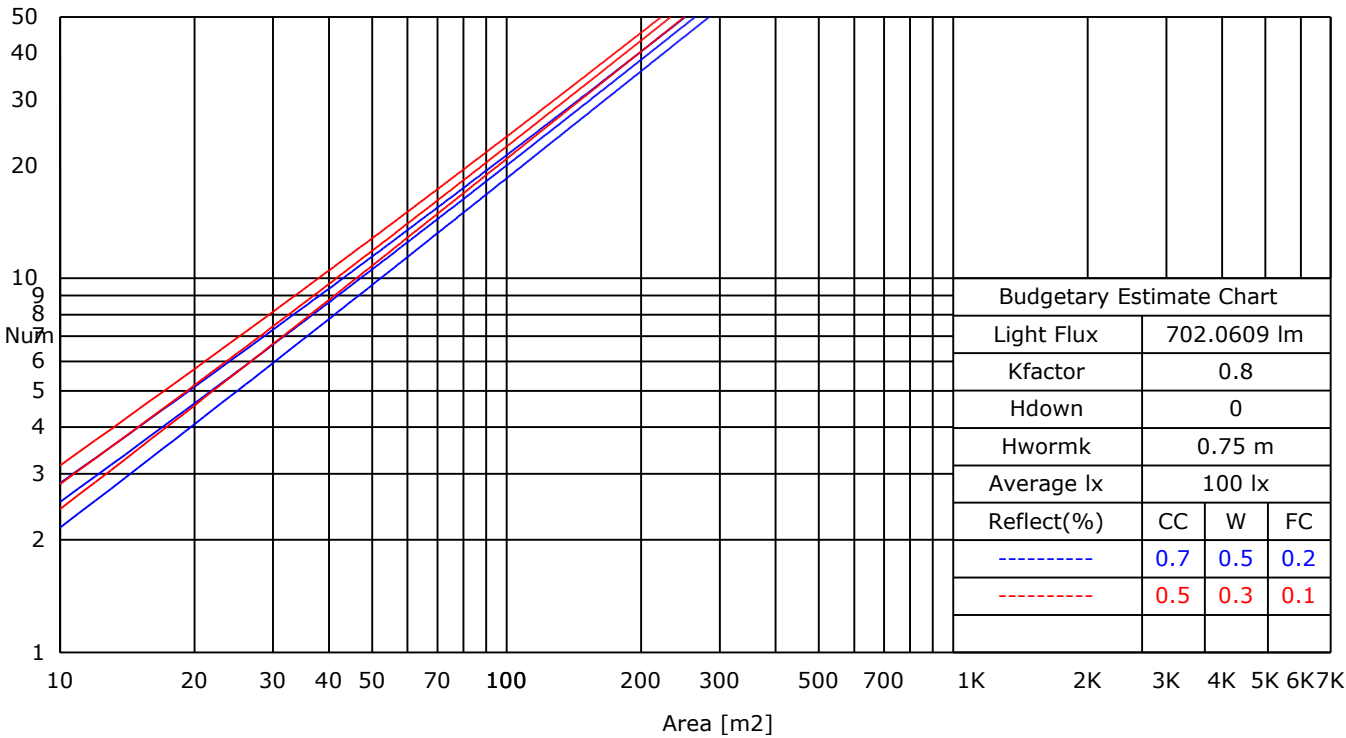
Report No.:

Test Time: 2025/7/19 11:58:24

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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.95	0.92	0.90	0.88	0.86	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	0.89	0.86	0.84	0.86	0.83	0.80	0.81	0.78	0.75	0.70
4	0.90	0.88	0.87	0.89	0.87	0.85	0.86	0.83	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.68
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.64
7	0.82	0.80	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.63
8	0.80	0.78	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.68	0.64	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.59
10	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.69	0.71	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



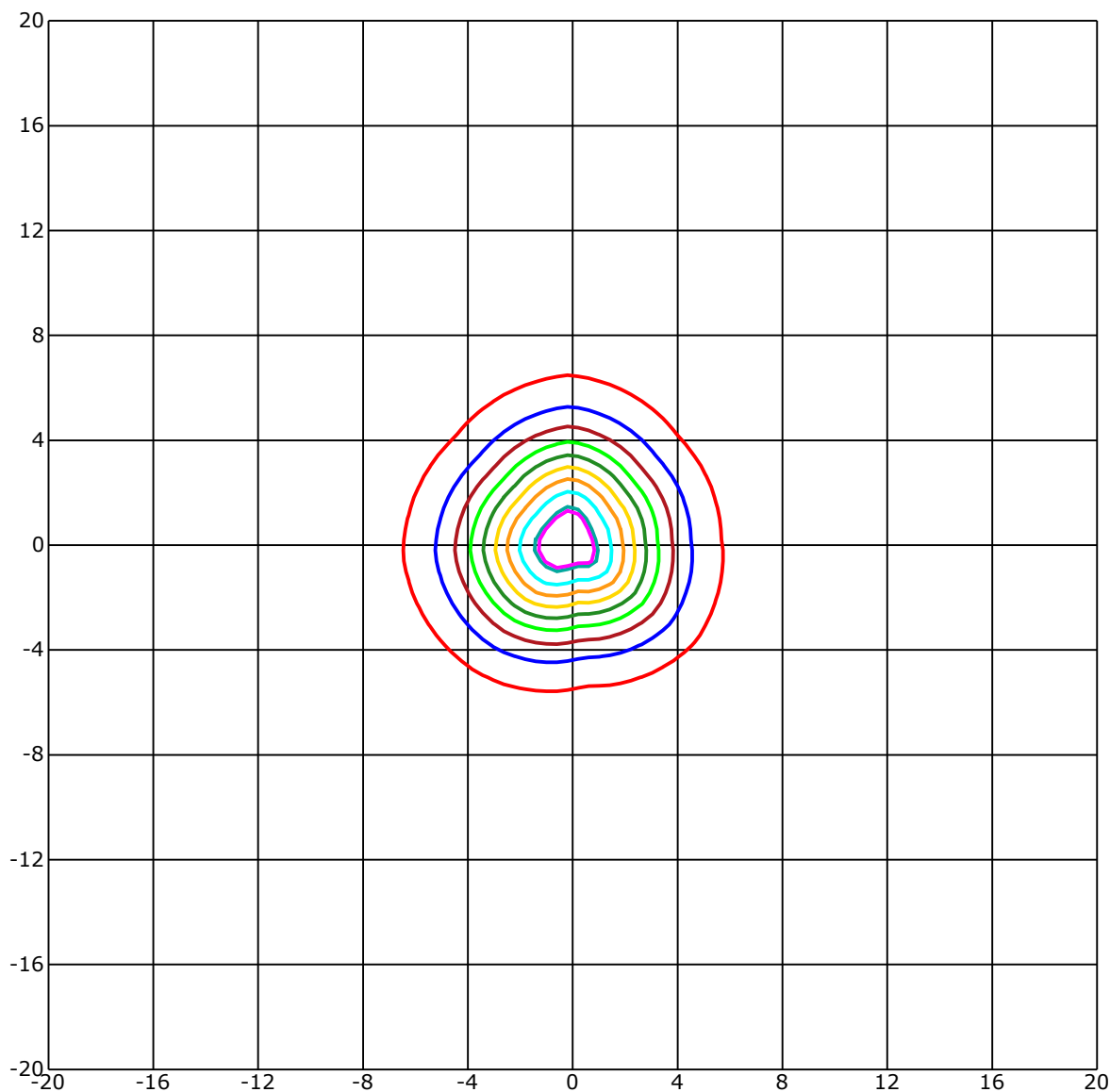
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

ISOLX DIAGRAM



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

13.083(92%Emax)	7.111(50%Emax)
12.799(90%Emax)	5.688(40%Emax)
11.377(80%Emax)	4.266(30%Emax)
9.955(70%Emax)	2.844(20%Emax)
8.533(60%Emax)	1.422(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 11:58:24

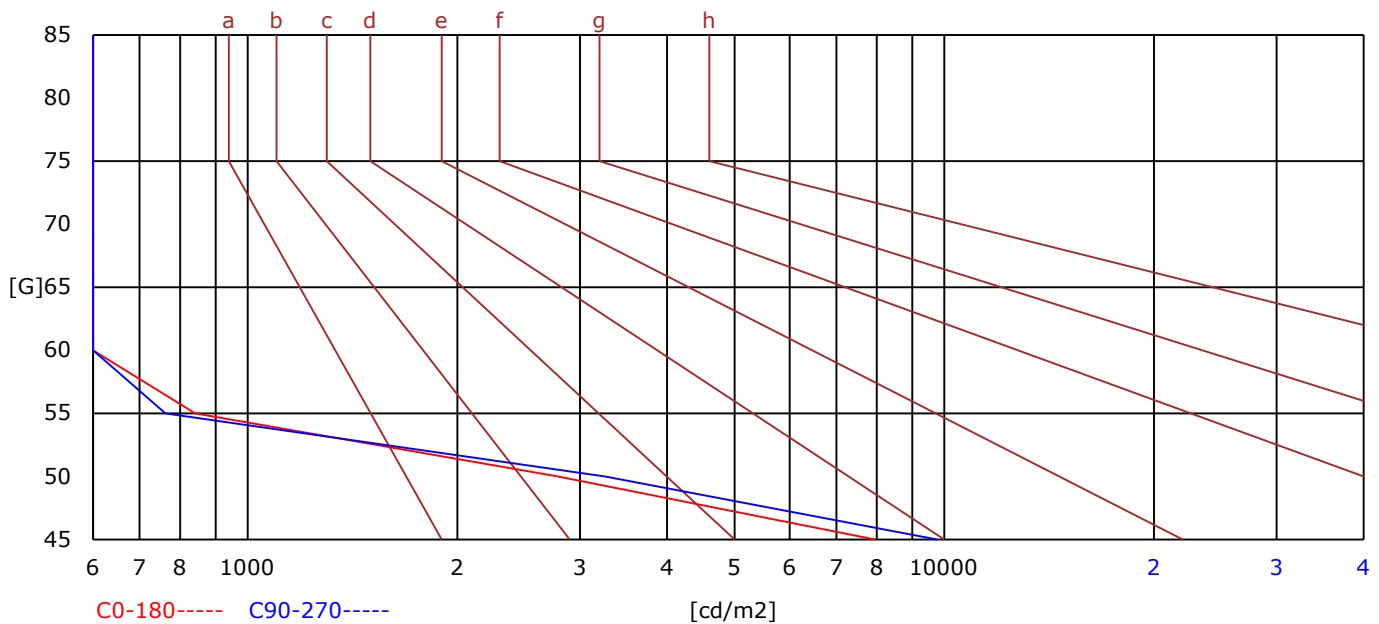
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/7/19 11:58:24

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7957	2790	841	473	237	0	0	0	0
C90	9772	3258	762	310	0	0	0	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



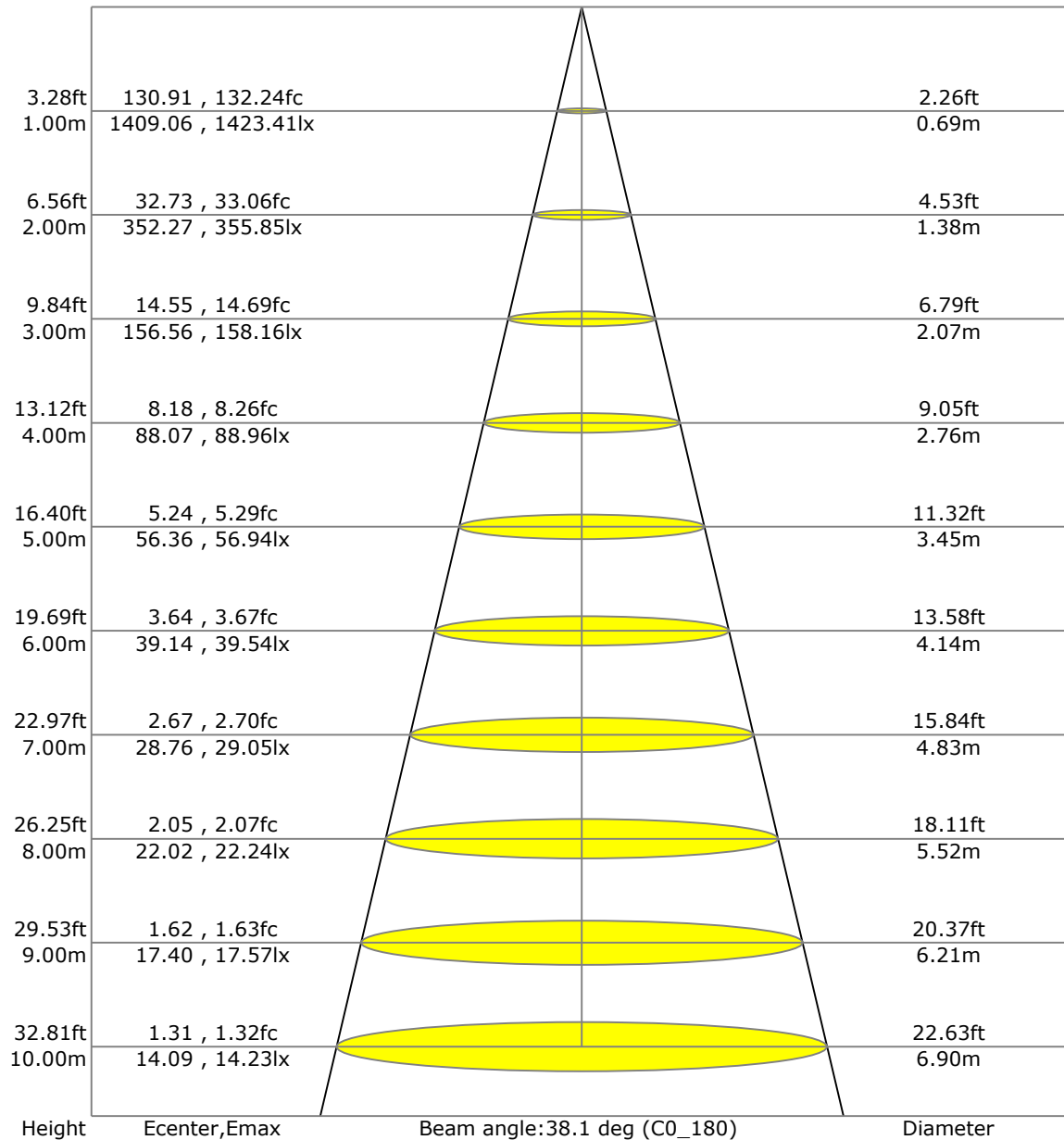
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/7/19 11:58:24

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

UGR(Unified Glare Rating) TABLE

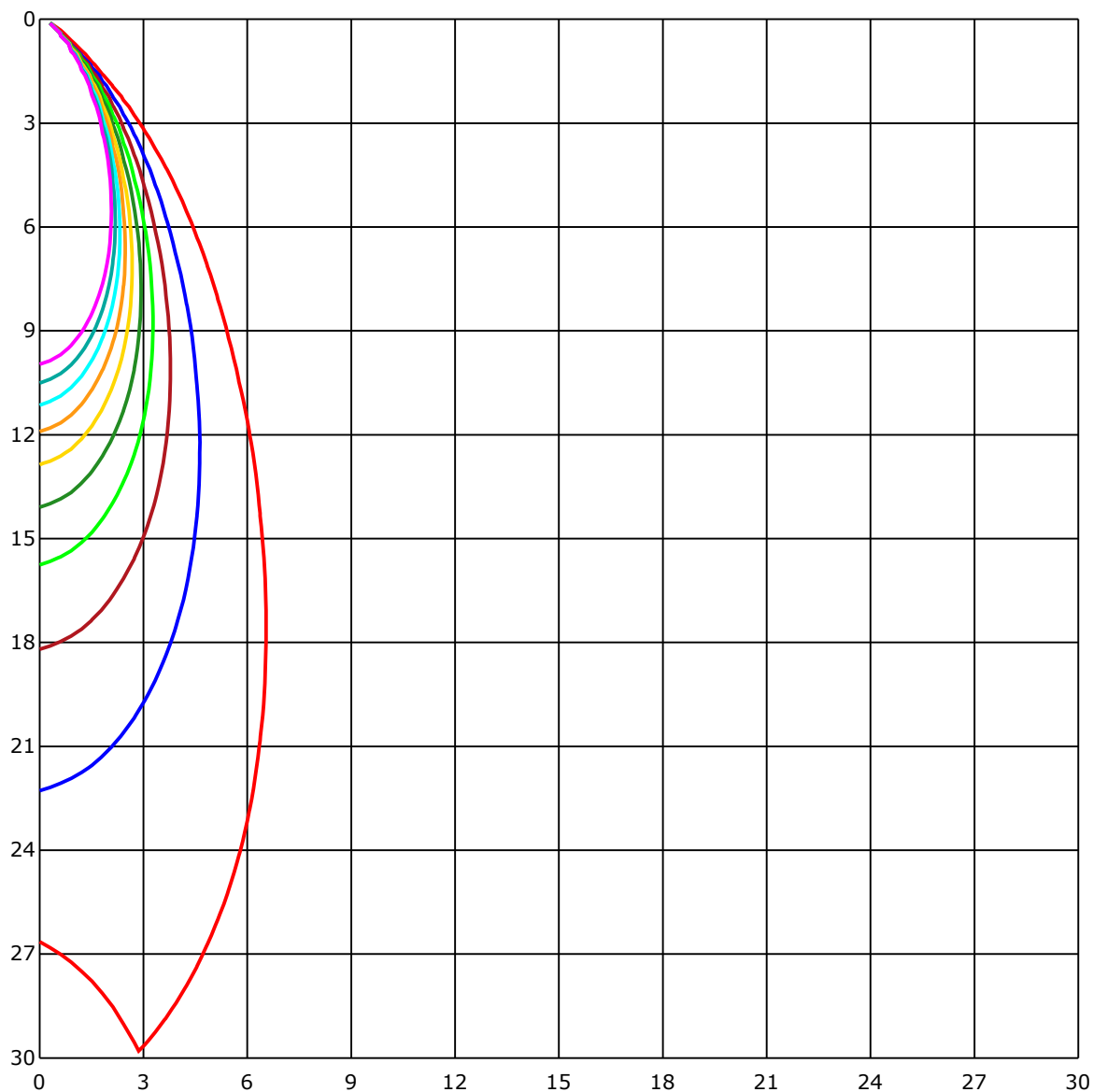
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	11.03	11.08	11.23	11.27	11.51	11.33	11.38	11.53	11.57	11.81
3H	11.01	11.06	11.21	11.25	11.50	11.30	11.35	11.51	11.55	11.79
4H	10.99	11.05	11.20	11.24	11.49	11.29	11.34	11.50	11.54	11.79
6H	10.98	11.03	11.19	11.23	11.48	11.27	11.32	11.49	11.53	11.78
8H	10.97	11.02	11.19	11.23	11.48	11.26	11.32	11.48	11.52	11.77
12H	10.96	11.01	11.18	11.22	11.47	11.25	11.31	11.48	11.51	11.77
4H 2H	10.99	11.05	11.20	11.24	11.49	11.37	11.42	11.58	11.61	11.86
3H	10.96	11.01	11.18	11.22	11.47	11.33	11.39	11.55	11.59	11.85
4H	10.94	10.99	11.17	11.21	11.47	11.31	11.37	11.54	11.58	11.84
6H	10.92	10.97	11.16	11.19	11.46	11.29	11.34	11.53	11.56	11.83
8H	10.91	10.96	11.15	11.18	11.45	11.28	11.33	11.52	11.55	11.82
12H	10.89	10.94	11.14	11.18	11.44	11.26	11.31	11.51	11.54	11.81
8H 4H	10.97	11.02	11.19	11.22	11.48	11.39	11.45	11.61	11.65	11.90
6H	10.88	10.93	11.13	11.16	11.44	11.31	11.36	11.57	11.60	11.87
8H	10.86	10.91	11.13	11.15	11.43	11.30	11.34	11.56	11.59	11.86
12H	10.85	10.89	11.12	11.14	11.42	11.28	11.32	11.55	11.57	11.86
12H 4H	10.89	10.94	11.14	11.17	11.44	11.35	11.40	11.60	11.63	11.90
6H	10.86	10.91	11.12	11.15	11.43	11.32	11.37	11.58	11.61	11.89

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: 2025/7/19 11:58:24

SPACE ISOLX DIAGRAM



Unit of illumination:lx

14.191

12.772

11.353

9.934

8.515

7.095

5.676

4.257

2.838

1.419

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1409.06	1398.73	1397.5	1421.71	1409.06	1398.73	1397.5	1421.71	1409.06	
G1	1393.87	1392.17	1406.8	1422.75	1417.13	1406.14	1385.04	1414.26	1393.87	
G2	1375.93	1377.49	1412.98	1420.49	1422.99	1405.19	1366.26	1407.41	1375.93	
G3	1354.5	1362.15	1417.7	1409.82	1423.41	1397.41	1339.59	1389.57	1354.5	
G4	1328.55	1339.4	1407.55	1396.37	1414.3	1387.59	1308.77	1371.45	1328.55	
G5	1295.08	1312.36	1398.35	1374.09	1399.48	1368.38	1274.93	1345.49	1295.08	
G6	1259.36	1279.08	1383.44	1350.68	1382.11	1344.59	1232.78	1319.15	1259.36	
G7	1218.39	1243.12	1362.34	1318.49	1358.19	1318.96	1190.45	1284.42	1218.39	
G8	1173.83	1203.19	1337.84	1286.21	1333.31	1286.68	1144.81	1247.37	1173.83	
G9	1127.49	1161.04	1310.66	1246.8	1303.25	1256.1	1099.31	1203.57	1127.49	
G10	1078.07	1115.64	1277.57	1205.27	1273.7	1213.48	1044.8	1161.94	1078.07	
G11	1026.53	1067.55	1243.59	1161.09	1232.78	1170.11	991.98	1112.43	1026.53	
G12	975.42	1015.35	1198.52	1114.84	1192.48	1122.67	937.09	1061.93	975.42	
G13	920.95	963.9	1153.49	1063.02	1144.34	1075.19	883.05	1009.16	920.95	
G14	868.19	909.77	1106.39	1010.63	1094.92	1023.56	826.94	954.37	868.19	
G15	812.64	858.28	1058.2	956.26	1045.03	971.93	771.91	898.39	812.64	
G16	757.42	801.07	1004.87	901.93	991.32	917.22	714.09	847.18	757.42	
G17	703.42	746.75	951.06	845.96	937.24	859.79	660.52	791.68	703.42	
G18	652.64	693.75	895.99	791.82	887.25	805.23	604.64	738.4	652.64	
G19	599.97	641.5	841.57	735.37	832.18	747.32	554.8	682.7	599.97	
G20	551.83	590.43	788.19	683.88	778.32	691.76	506.94	630.83	551.83	
G21	505.29	543.09	734.53	631.35	722.77	640.51	460.92	579.91	505.29	
G22	461.63	496.04	678.93	582.93	671.47	588.5	416.84	533.37	461.63	
G23	419.58	453.94	628.14	533.18	621.49	538.52	376.21	486.65	419.58	
G24	380.55	411.89	578.78	487.5	572.17	491.27	337.69	445.02	380.55	
G25	345.91	373.61	531.06	443.08	524.59	449.17	303.81	404.81	345.91	
G26	313.39	336.8	485.0	402.12	479.52	406.74	272.0	367.95	313.39	
G27	282.38	304.18	442.52	363.89	435.58	367.52	243.54	331.79	282.38	
G28	253.4	273.03	401.79	330.19	396.36	330.85	217.06	299.61	253.4	
G29	226.36	244.39	362.71	296.02	358.51	296.87	192.75	269.82	226.36	
G30	202.99	218.71	327.17	265.39	325.23	266.1	171.09	242.97	202.99	
G31	181.8	195.16	294.6	237.97	293.05	237.87	151.83	217.62	181.8	
G32	163.21	173.87	263.93	213.71	263.41	213.28	134.98	194.88	163.21	
G33	145.98	155.84	237.4	191.29	237.07	191.1	119.97	174.82	145.98	
G34	130.45	139.18	213.05	171.09	213.05	170.95	105.63	156.65	130.45	
G35	115.96	124.08	191.05	152.35	191.05	151.69	92.79	140.08	115.96	
G36	102.75	110.06	171.18	135.08	171.32	134.42	81.13	125.12	102.75	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/19 11:58:24

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: 2025/7/19 11:58:24

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	91.28	97.13	152.68	118.79	152.59	119.36	70.8	111.57	91.28	
G38	80.8	85.43	135.93	104.35	135.64	105.34	61.5	99.49	80.8	
G39	70.98	74.85	120.4	91.56	119.74	93.03	53.19	88.59	70.98	
G40	62.11	65.37	106.15	80.05	105.82	81.51	45.07	78.54	62.11	
G41	53.33	56.73	94.25	69.1	93.21	71.17	38.28	69.33	53.33	
G42	45.59	48.28	82.92	59.28	81.79	61.73	32.05	60.55	45.59	
G43	39.03	41.25	72.59	50.64	71.5	53.66	26.67	52.86	39.03	
G44	33.13	34.74	62.82	42.67	62.25	45.69	22.09	45.64	33.13	
G45	27.94	29.17	54.61	35.82	53.66	39.27	17.75	39.32	27.94	
G46	23.13	24.16	46.91	29.83	46.06	33.46	14.02	34.03	23.13	
G47	18.88	19.96	40.49	24.35	39.22	28.13	10.81	28.93	18.88	
G48	14.87	16.0	34.69	19.54	33.18	23.22	7.98	24.5	14.87	
G49	11.23	12.41	29.5	14.73	27.19	19.07	5.95	20.34	11.23	
G50	8.4	9.3	24.64	10.86	21.95	15.57	4.29	16.8	8.4	
G51	6.04	6.84	20.2	7.69	17.65	12.84	3.4	13.83	6.04	
G52	4.48	5.0	16.52	5.24	14.06	10.71	2.88	11.37	4.48	
G53	3.26	3.78	13.59	3.73	11.47	9.25	2.31	9.63	3.26	
G54	2.74	2.88	11.33	2.83	9.58	8.07	1.84	8.5	2.74	
G55	2.41	2.5	9.53	2.27	8.35	7.41	1.56	7.6	2.41	
G56	1.98	2.03	8.35	1.94	7.5	6.94	1.32	7.13	1.98	
G57	1.84	1.75	7.65	1.6	6.89	6.47	1.13	6.56	1.84	
G58	1.56	1.6	6.94	1.27	6.56	5.95	0.8	6.04	1.56	
G59	1.27	1.37	6.42	0.9	5.99	5.52	0.76	5.66	1.27	
G60	1.09	1.23	5.99	0.8	5.47	4.96	0.66	5.33	1.09	
G61	0.8	0.99	5.66	0.42	5.05	4.86	0.57	5.0	0.8	
G62	0.76	0.71	5.19	0.24	4.77	4.34	0.33	4.72	0.76	
G63	0.57	0.71	4.91	0.09	4.48	3.96	0.19	4.34	0.57	
G64	0.57	0.61	4.44	0.09	4.25	3.87	0.0	4.06	0.57	
G65	0.47	0.52	4.29	0.0	3.92	3.68	0.0	3.82	0.47	
G66	0.38	0.38	3.87	0.0	3.78	3.35	0.0	3.59	0.38	
G67	0.24	0.28	3.78	0.0	3.49	3.21	0.0	3.4	0.24	
G68	0.14	0.09	3.49	0.0	3.3	3.02	0.0	3.21	0.14	
G69	0.0	0.09	3.4	0.0	3.02	2.93	0.0	3.02	0.0	
G70	0.0	0.0	3.16	0.0	2.93	2.69	0.0	2.97	0.0	
G71	0.0	0.0	2.88	0.0	2.69	2.45	0.0	2.74	0.0	
G72	0.0	0.0	2.88	0.0	2.5	2.36	0.0	2.55	0.0	
G73	0.0	0.0	2.55	0.0	2.27	2.22	0.0	2.45	0.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/19 11:58:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 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: 2025/7/19 11:58:24

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