

Report No.:

Test Time: 2024/7/17 18:11:33

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-60°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

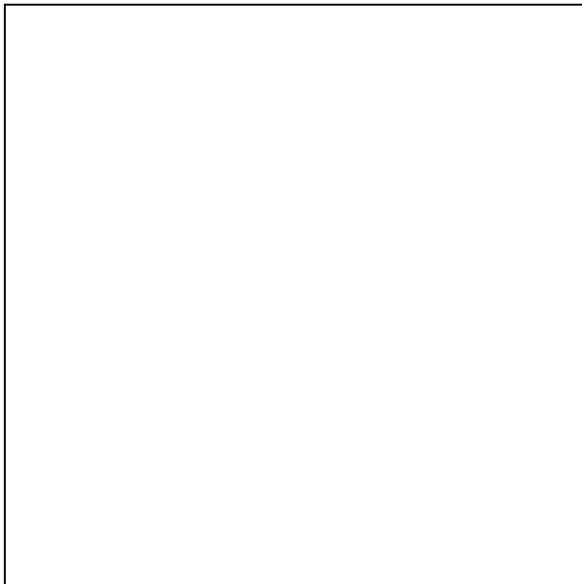
Voltage(V): 219.80 V
Current(A): 0.0520 A
Power(W): 10.64 W
Power Factor: 0.9190
Lamp Luminous Flux: 1026.41

Photometric Results

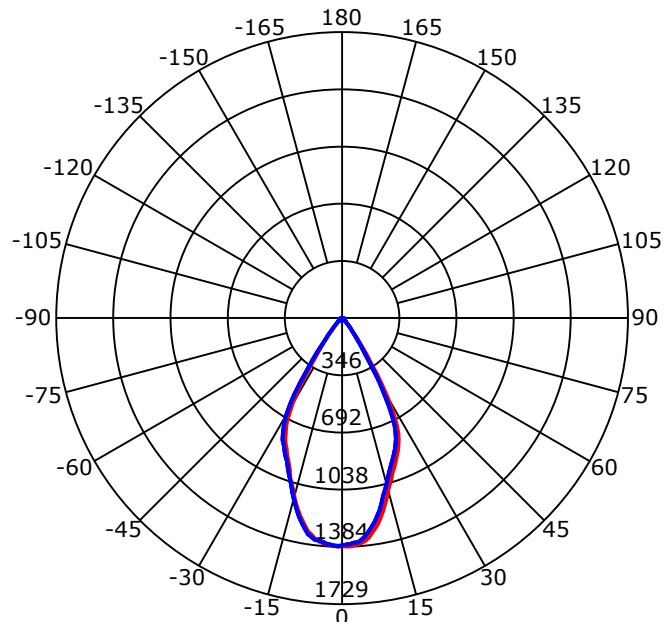
CIE Class: Direct
Luminaire Luminous Flux: 1026.408 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.47 lm/W
Beam Angle(50%) C0-180,C90-270: 56.2,56.3
Field Angle(10%) C0-180,C90-270: 75.4,75.1
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 1383.60 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1380.28 cd
Effective Luminous Flux: 941.14 lm
ERP(ϕ use)(120deg): 1014.63 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.2 deg,56.3 deg

C0-180 — C90-270 —

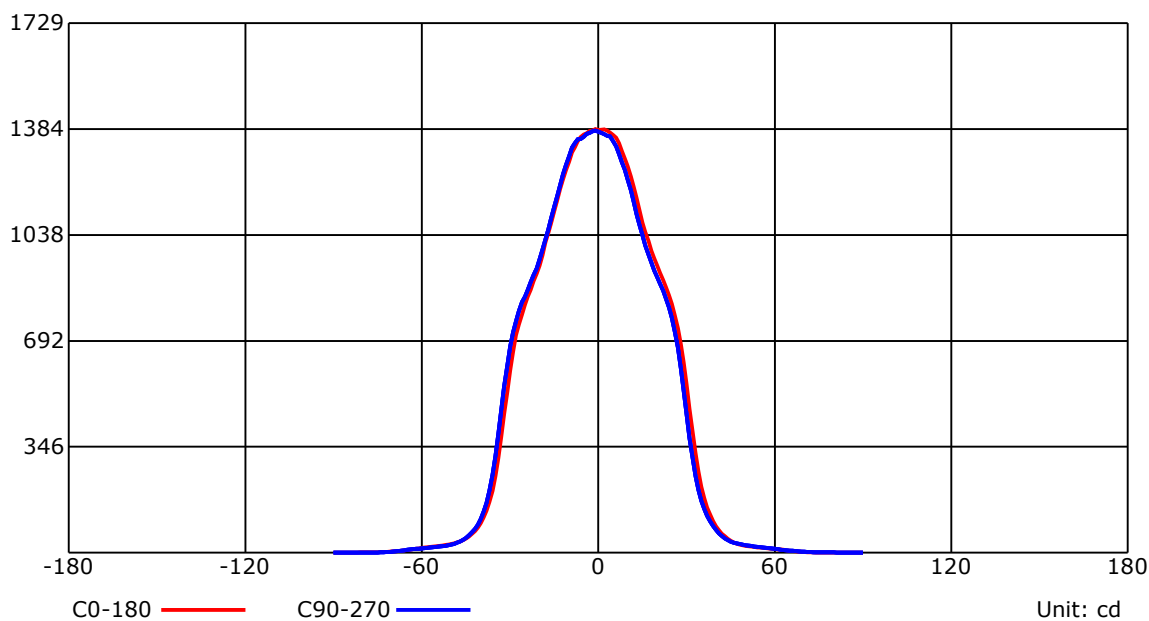
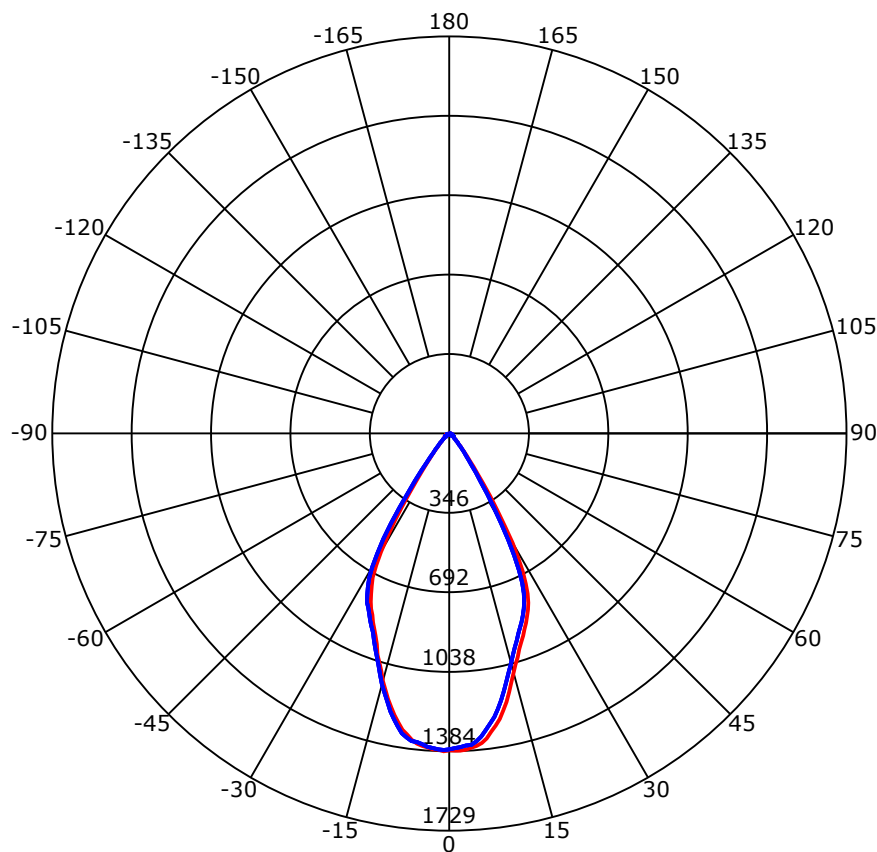
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



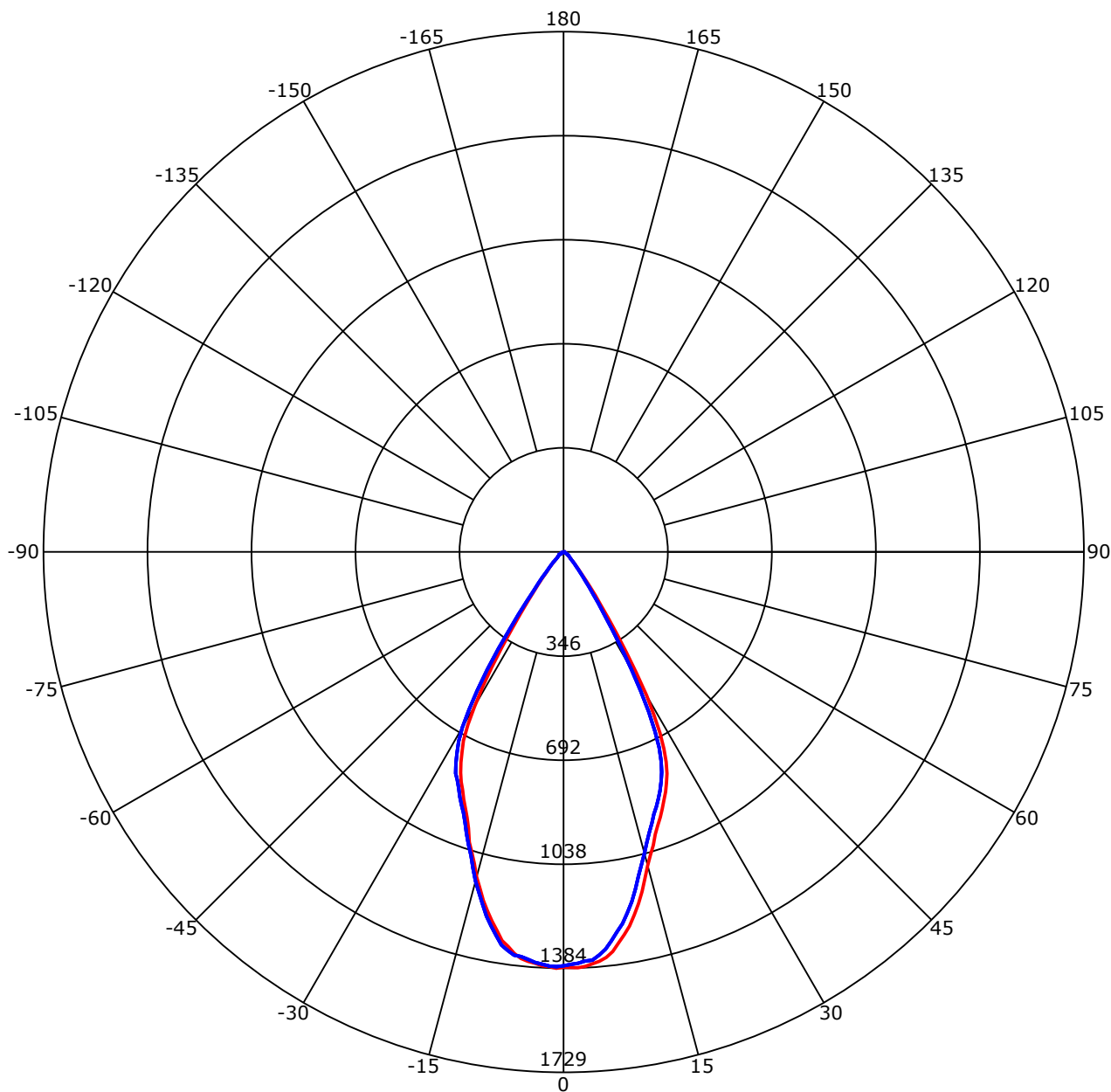
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

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Humidity: 60
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

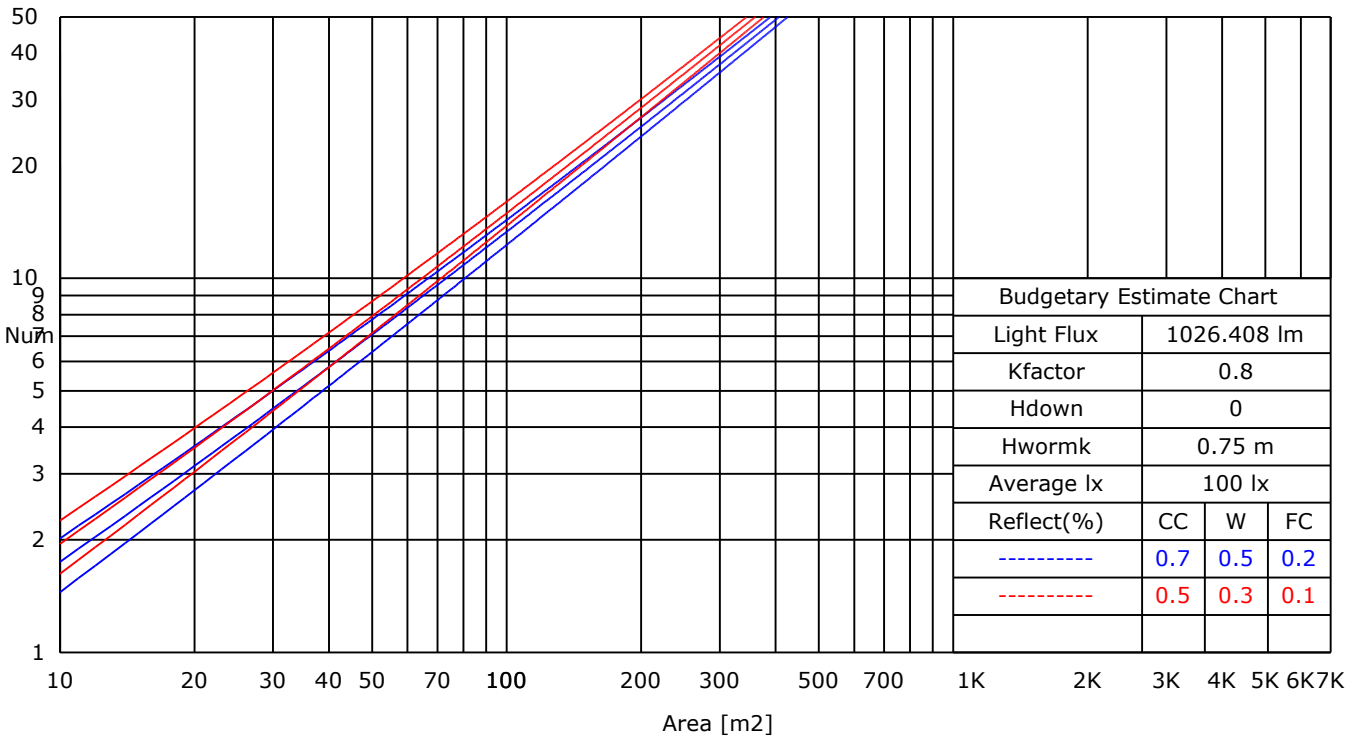
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Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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	1.05	1.03	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	1.00	0.99	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.96	0.95	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.73
4	0.93	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	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.69	0.66
7	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.64
8	0.81	0.79	0.78	0.80	0.78	0.77	0.77	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.62
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	0.73	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



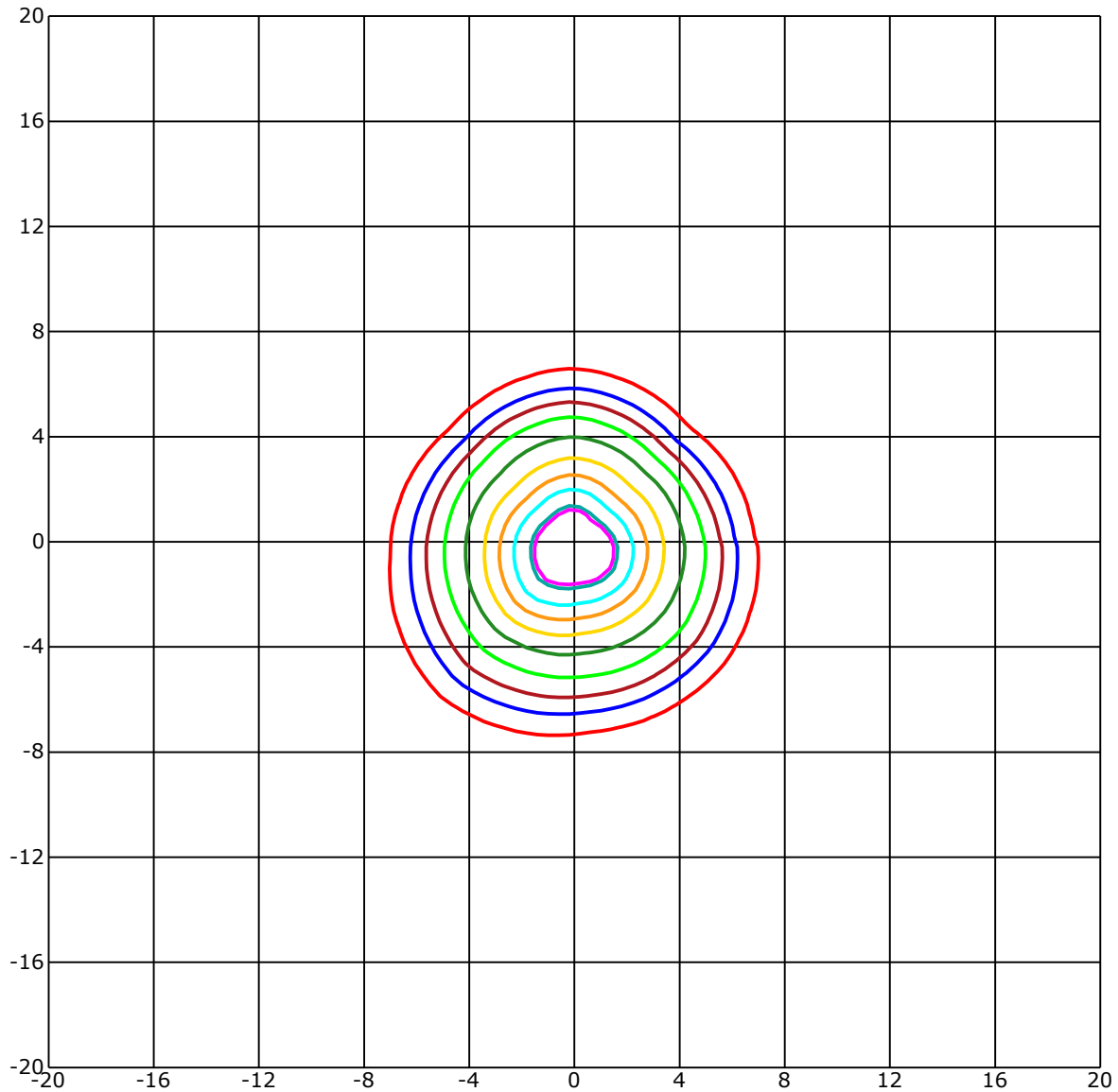
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

12.723(92%Emax)	6.915(50%Emax)
12.447(90%Emax)	5.532(40%Emax)
11.064(80%Emax)	4.149(30%Emax)
9.681(70%Emax)	2.766(20%Emax)
8.298(60%Emax)	1.383(10%Emax)

C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

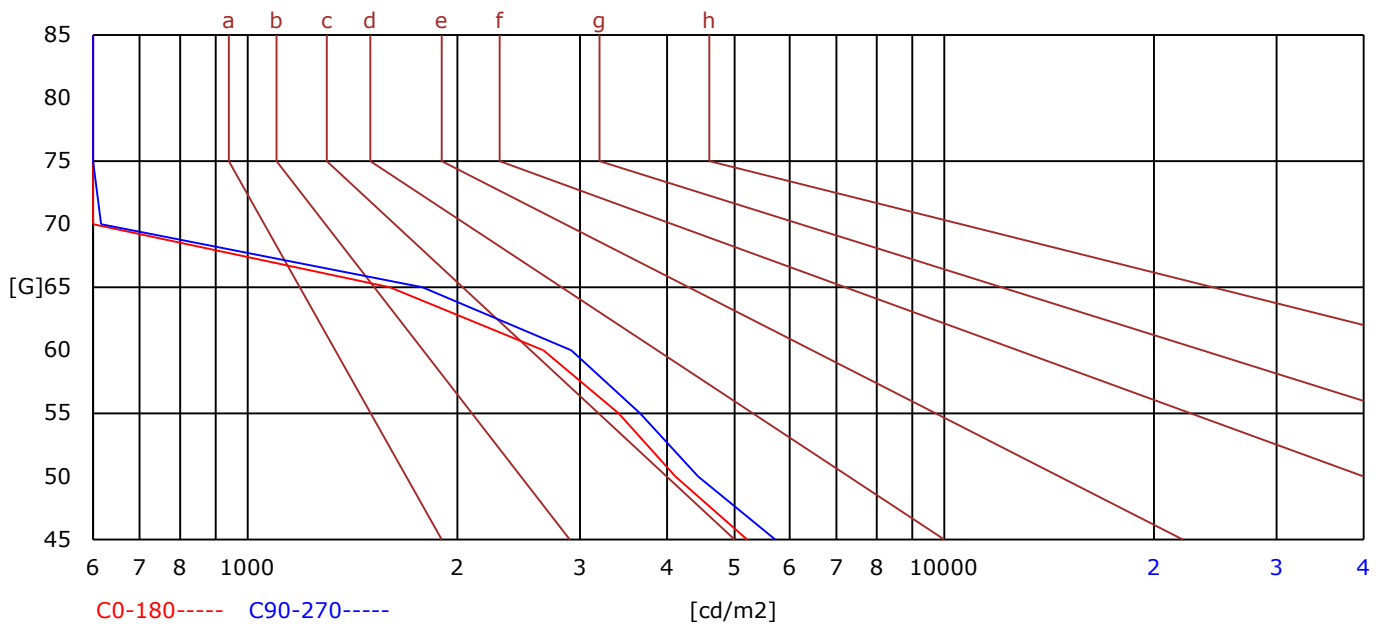
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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5212	4113	3411	2660	1600	551	0	0	0
C90	5721	4432	3662	2915	1783	616	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



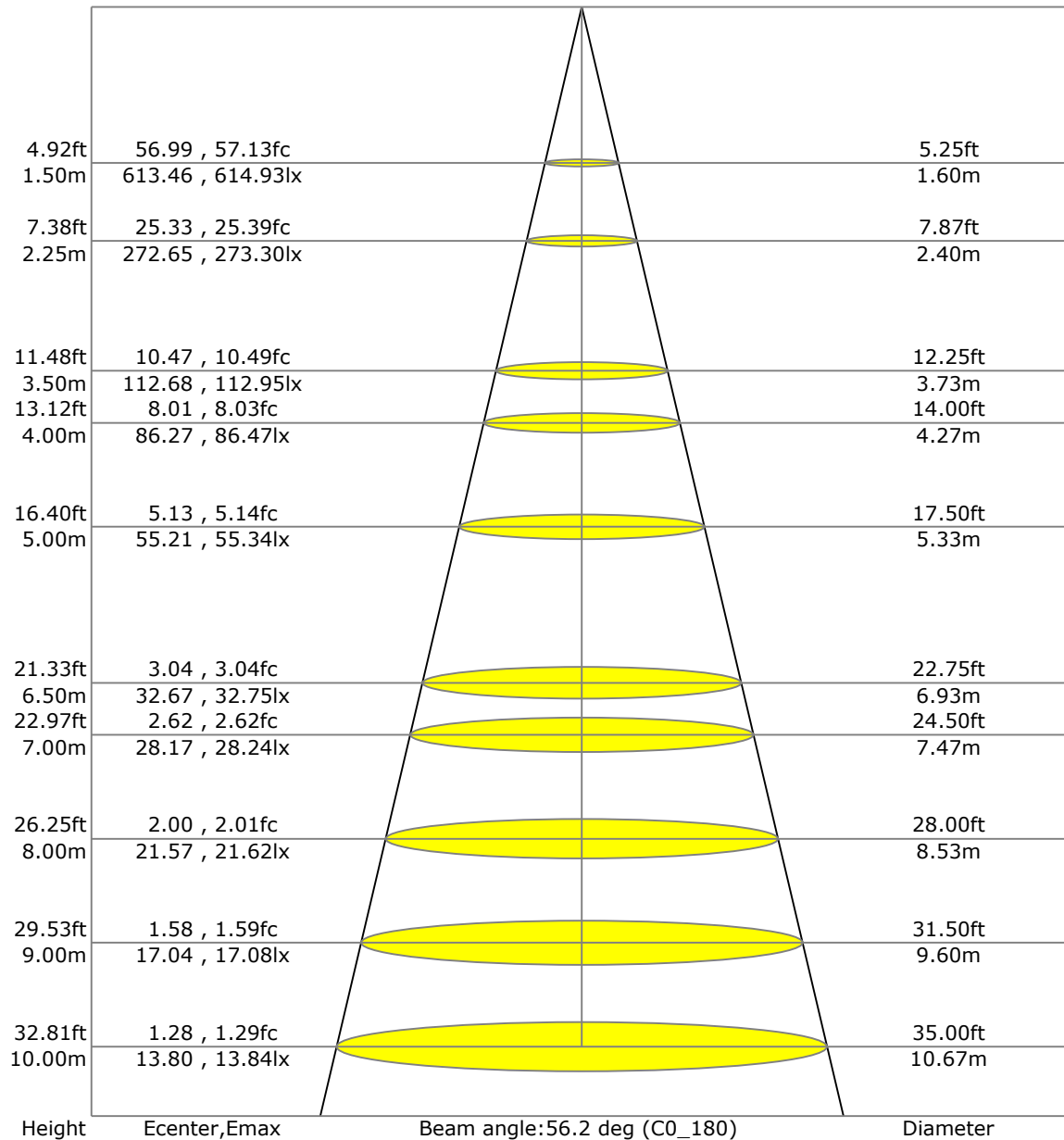
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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 Y		Viewed Endwise					Viewed Crosswise				
2H	2H	7.85	7.90	8.05	8.09	8.33	7.90	7.95	8.10	8.14	8.38
	3H	7.83	7.89	8.04	8.08	8.32	7.89	7.94	8.09	8.13	8.38
	4H	7.82	7.87	8.03	8.07	8.31	7.87	7.92	8.08	8.12	8.37
	6H	7.80	7.85	8.02	8.05	8.30	7.85	7.90	8.07	8.10	8.36
	8H	7.79	7.84	8.01	8.05	8.30	7.84	7.90	8.06	8.10	8.35
	12H	7.78	7.83	8.00	8.04	8.29	7.83	7.89	8.06	8.09	8.35
4H	2H	7.99	8.04	8.20	8.23	8.48	8.05	8.10	8.26	8.30	8.55
	3H	7.96	8.01	8.18	8.22	8.47	8.03	8.08	8.25	8.28	8.54
	4H	7.94	7.99	8.17	8.20	8.46	8.01	8.06	8.23	8.27	8.53
	6H	7.92	7.97	8.16	8.19	8.45	7.98	8.03	8.22	8.25	8.51
	8H	7.91	7.95	8.15	8.18	8.45	7.97	8.02	8.21	8.24	8.51
	12H	7.89	7.94	8.14	8.17	8.44	7.96	8.00	8.20	8.23	8.50
8H	4H	7.96	8.01	8.18	8.21	8.47	8.04	8.09	8.26	8.29	8.54
	6H	7.88	7.92	8.13	8.16	8.43	7.96	8.00	8.21	8.24	8.51
	8H	7.86	7.90	8.12	8.15	8.43	7.94	7.98	8.20	8.23	8.51
	12H	7.85	7.89	8.11	8.14	8.42	7.92	7.96	8.19	8.22	8.50
12H	4H	7.89	7.94	8.14	8.17	8.44	7.97	8.02	8.22	8.25	8.52
	6H	7.86	7.90	8.12	8.15	8.43	7.94	7.98	8.20	8.23	8.51

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Operators: QC01
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

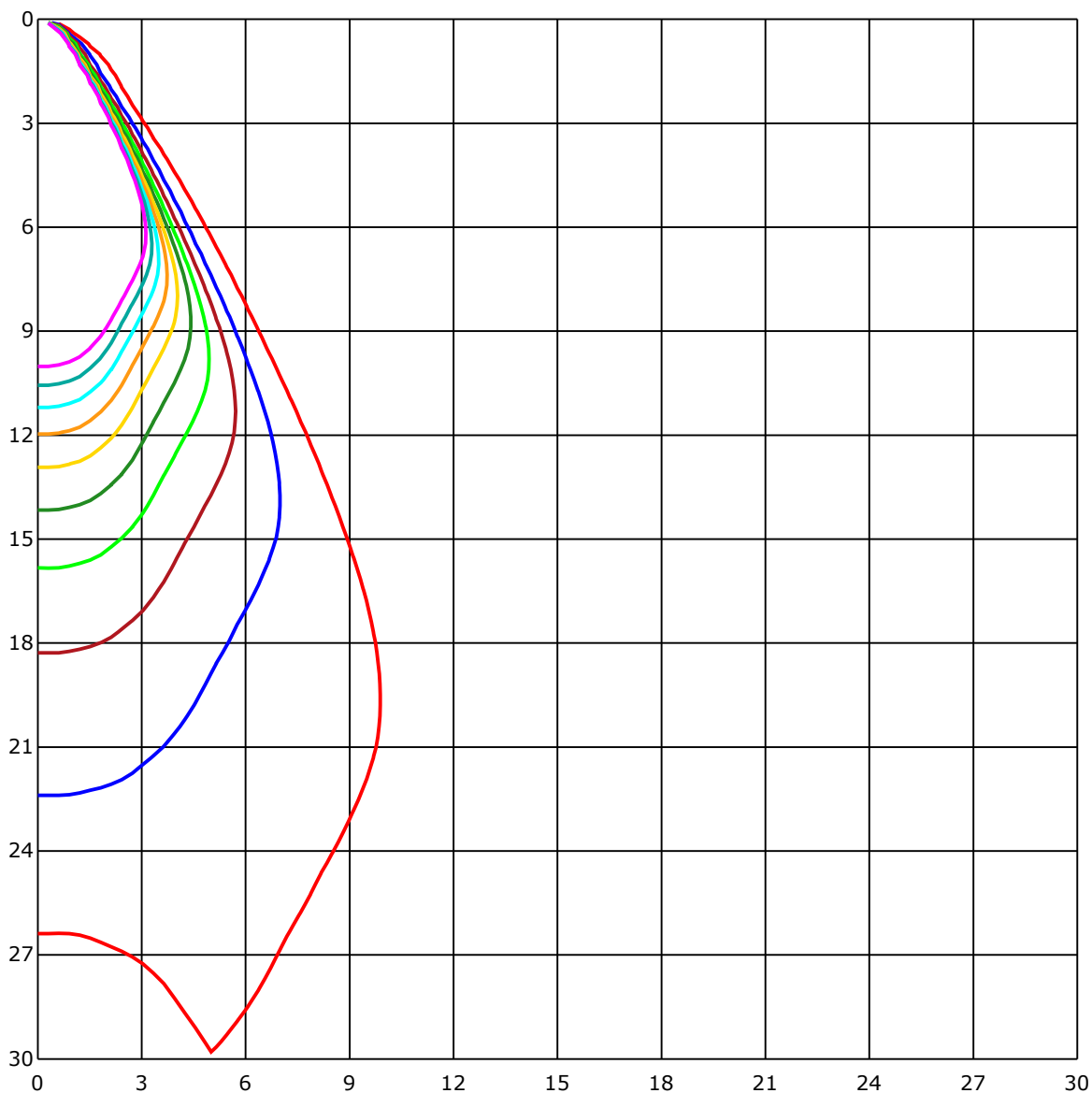
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SPACE ISOLX DIAGRAM



13.767	6.883
12.39	5.507
11.013	4.13
9.637	2.753
8.26	1.377

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1380.28	1366.86	1375.56	1374.26	1380.28	1366.86	1375.56	1374.26	1380.28	
G1	1381.27	1360.98	1370.85	1364.66	1383.6	1374.62	1378.3	1376.15	1381.27	
G2	1382.79	1349.93	1367.3	1361.56	1378.57	1372.02	1376.87	1379.83	1382.79	
G3	1378.53	1334.85	1361.2	1356.62	1377.23	1371.34	1371.57	1379.87	1378.53	
G4	1371.75	1319.23	1360.08	1346.88	1370.09	1368.88	1367.53	1382.57	1371.75	
G5	1365.33	1299.16	1345.4	1330.45	1365.6	1366.09	1358.51	1374.44	1365.33	
G6	1355.05	1279.37	1327.17	1306.43	1358.01	1365.28	1351.55	1370.4	1355.05	
G7	1337.59	1257.41	1302.44	1284.21	1343.83	1365.46	1350.16	1364.84	1337.59	
G8	1311.6	1221.41	1275.1	1260.83	1323.58	1360.39	1337.23	1349.66	1311.6	
G9	1287.94	1188.91	1250.59	1228.77	1307.15	1354.33	1322.64	1337.23	1287.94	
G10	1262.22	1152.55	1218.09	1195.2	1277.52	1337.99	1294.4	1315.32	1262.22	
G11	1228.73	1120.19	1183.88	1157.22	1249.24	1320.84	1265.99	1287.63	1228.73	
G12	1194.88	1080.64	1145.77	1119.11	1219.57	1301.14	1236.63	1260.6	1194.88	
G13	1157.58	1042.62	1104.97	1078.26	1187.7	1275.42	1200.72	1223.03	1157.58	
G14	1118.08	1008.45	1069.86	1042.57	1152.06	1249.29	1165.08	1193.22	1118.08	
G15	1078.71	985.34	1037.5	1005.9	1117.36	1225.0	1132.08	1148.29	1078.71	
G16	1046.93	956.74	1003.25	978.87	1077.18	1189.72	1093.12	1110.71	1046.93	
G17	1018.69	932.05	973.84	943.81	1044.14	1155.83	1055.23	1073.19	1018.69	
G18	986.23	906.82	947.85	918.58	1013.71	1120.86	1023.22	1041.18	986.23	
G19	961.41	880.02	921.77	892.37	971.24	1082.66	990.81	1004.23	961.41	
G20	937.98	854.44	900.36	865.39	938.74	1042.44	959.16	976.67	937.98	
G21	914.01	831.45	878.54	844.47	912.48	1011.33	928.59	950.9	914.01	
G22	890.03	798.23	855.15	822.12	886.58	976.63	907.0	927.79	890.03	
G23	866.33	761.51	828.53	797.61	858.7	947.9	883.97	900.81	866.33	
G24	840.83	719.41	801.15	764.12	836.57	908.98	859.1	881.55	840.83	
G25	812.91	667.11	766.95	728.7	809.5	883.57	836.17	859.73	812.91	
G26	776.24	602.29	723.22	683.41	778.3	861.89	818.93	838.86	776.24	
G27	733.77	531.27	669.53	625.41	745.08	835.58	788.36	815.65	733.77	
G28	682.15	454.56	602.78	560.27	710.03	812.78	755.18	785.93	682.15	
G29	621.14	382.78	528.67	481.49	656.11	787.15	719.41	750.7	621.14	
G30	550.58	313.87	451.73	403.2	594.79	758.6	673.93	706.03	550.58	
G31	470.49	254.62	374.7	330.57	524.41	720.08	611.22	646.33	470.49	
G32	394.4	207.75	308.44	266.33	452.27	674.43	542.72	574.86	394.4	
G33	325.63	171.66	250.71	212.02	378.11	616.61	465.87	495.81	325.63	
G34	265.52	142.93	205.1	170.85	309.07	547.57	387.85	419.95	265.52	
G35	215.25	119.14	170.13	139.88	249.95	478.39	315.76	343.86	215.25	
G36	178.84	99.7	143.51	116.04	202.41	403.38	255.11	276.84	178.84	

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: 6.7 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	147.55	83.81	120.44	96.38	165.51	334.7	202.01	224.9	147.55	
G38	123.36	71.11	102.08	80.85	137.54	272.53	162.82	184.99	123.36	
G39	102.93	61.01	87.13	69.27	115.23	220.5	133.91	152.81	102.93	
G40	86.23	52.84	74.52	59.75	96.29	180.82	110.03	128.43	86.23	
G41	73.44	45.88	63.43	52.12	81.79	150.92	91.76	107.69	73.44	
G42	62.35	40.49	54.54	45.52	70.03	124.97	77.57	91.53	62.35	
G43	53.1	36.27	46.64	40.45	60.74	104.91	65.9	78.56	53.1	
G44	45.02	32.55	40.67	36.32	52.93	89.15	56.25	68.41	45.02	
G45	39.05	29.85	36.27	32.77	46.6	77.03	48.66	59.97	39.05	
G46	34.12	27.61	32.86	30.35	40.98	67.6	41.93	53.46	34.12	
G47	29.99	25.77	30.17	27.79	36.76	59.79	36.41	47.67	29.99	
G48	26.71	24.2	28.06	26.04	33.4	53.46	32.28	42.78	26.71	
G49	24.29	22.67	25.95	24.42	30.57	48.17	28.77	38.92	24.29	
G50	22.4	21.41	24.55	23.07	28.28	43.41	26.22	36.05	22.4	
G51	20.83	20.25	23.12	21.64	26.66	39.77	24.29	33.58	20.83	
G52	19.75	19.03	21.91	20.6	25.18	36.68	22.53	31.78	19.75	
G53	18.63	17.91	20.65	19.35	23.7	34.21	21.05	29.85	18.63	
G54	17.46	16.97	19.35	18.32	22.31	32.01	19.93	28.46	17.46	
G55	16.52	15.85	18.32	17.01	21.14	30.17	18.72	27.16	16.52	
G56	15.71	14.9	17.37	16.03	19.93	28.42	17.73	26.08	15.71	
G57	14.63	13.92	16.25	14.95	18.9	26.93	16.79	24.64	14.63	
G58	13.83	12.61	14.99	14.01	17.78	25.5	15.98	23.34	13.83	
G59	13.06	11.76	13.92	12.79	16.65	24.06	15.08	22.27	13.06	
G60	12.08	10.77	12.84	11.81	15.53	22.85	14.14	21.05	12.08	
G61	11.22	9.61	11.58	10.64	14.32	21.55	13.29	19.98	11.22	
G62	10.28	8.48	10.1	9.61	13.06	20.25	12.39	18.9	10.28	
G63	9.34	7.45	8.57	8.57	11.67	19.12	11.58	17.87	9.34	
G64	8.08	6.46	7.59	7.45	9.92	17.78	10.55	16.7	8.08	
G65	6.51	5.48	6.82	6.11	8.44	16.65	9.34	15.53	6.51	
G66	5.34	4.31	6.06	4.94	7.41	15.26	8.04	14.45	5.34	
G67	4.53	3.46	5.25	3.77	6.55	14.1	6.11	13.24	4.53	
G68	3.82	2.69	4.53	2.96	5.61	13.02	5.21	12.08	3.82	
G69	3.14	2.11	3.55	2.2	4.89	11.72	4.17	10.91	3.14	
G70	2.38	1.53	3.01	1.71	4.22	10.28	3.5	9.56	2.38	
G71	1.84	1.03	2.42	1.03	3.59	9.07	2.78	8.35	1.84	
G72	1.17	0.58	2.06	0.63	2.78	7.63	2.11	7.09	1.17	
G73	0.9	0.27	1.62	0.22	2.24	6.46	1.66	6.02	0.9	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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: 2024/7/17 18:11:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: