

Report No.:

Test Time: 2024/12/19 16:46:13

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP151CT075H76-60°-15W
Lamp Type:
Luminous Width: 60 mm
Luminous Length: 60 mm
Luminous Height: 50 mm

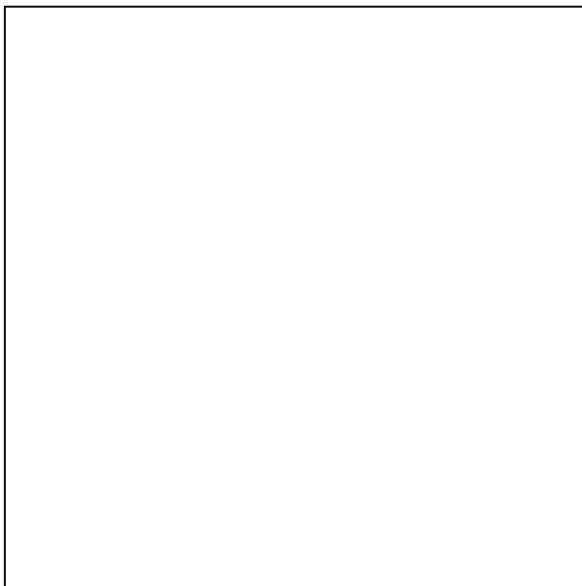
Voltage(V): 220.00 V
Current(A): 0.0740 A
Power(W): 15.60 W
Power Factor: 0.9520
Lamp Luminous Flux: 1184.01

Photometric Results

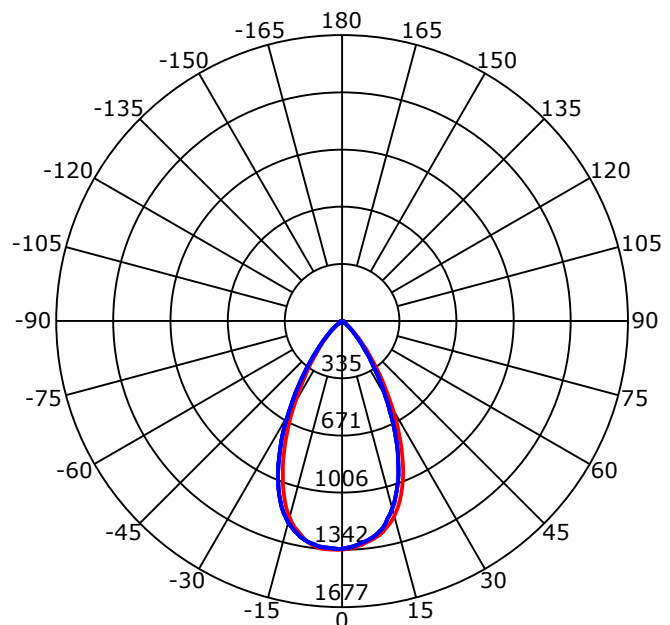
CIE Class: Direct
Luminaire Luminous Flux: 1184.009 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 75.90 lm/W
Beam Angle(50%) C0-180,C90-270: 55.8,55.8
Field Angle(10%) C0-180,C90-270: 88.0,87.6
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 1341.85 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1340.64 cd
Effective Luminous Flux: 1104.46 lm
ERP(ϕ use)(120deg): 1174.30 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 55.8 deg,55.8 deg

C0-180 — C90-270

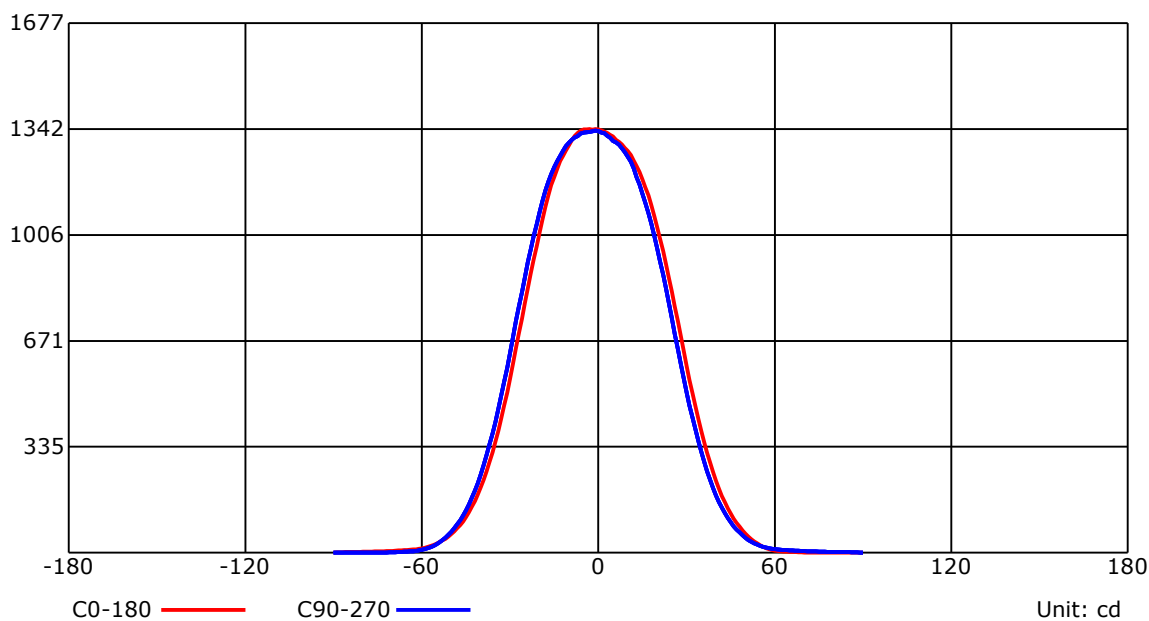
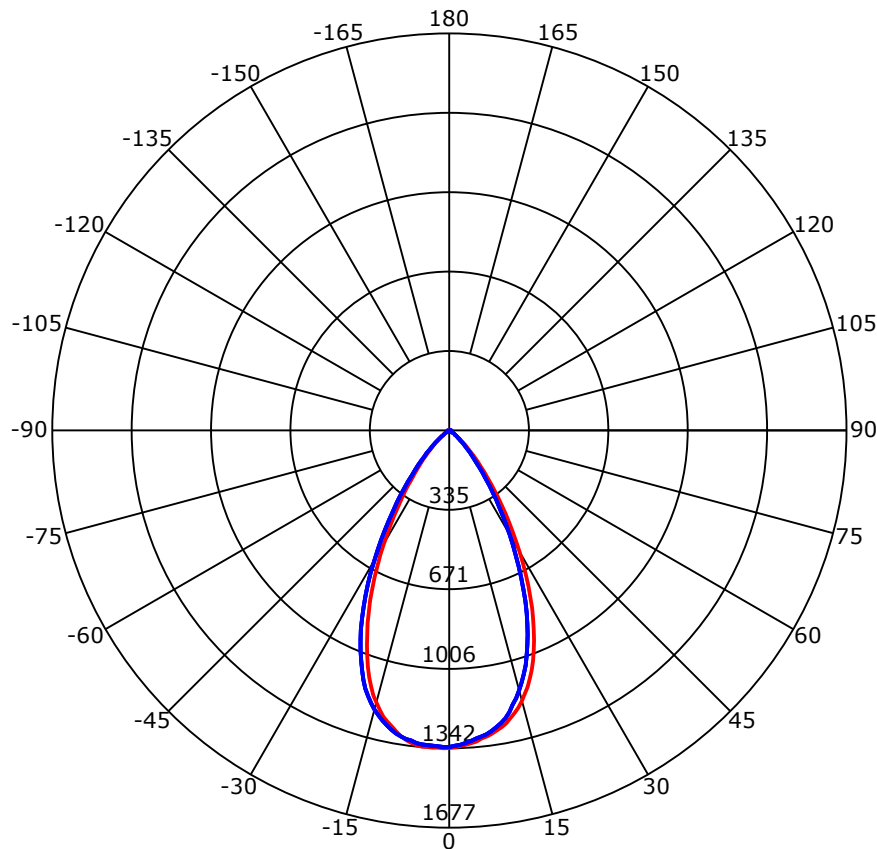
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 16:46:13

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



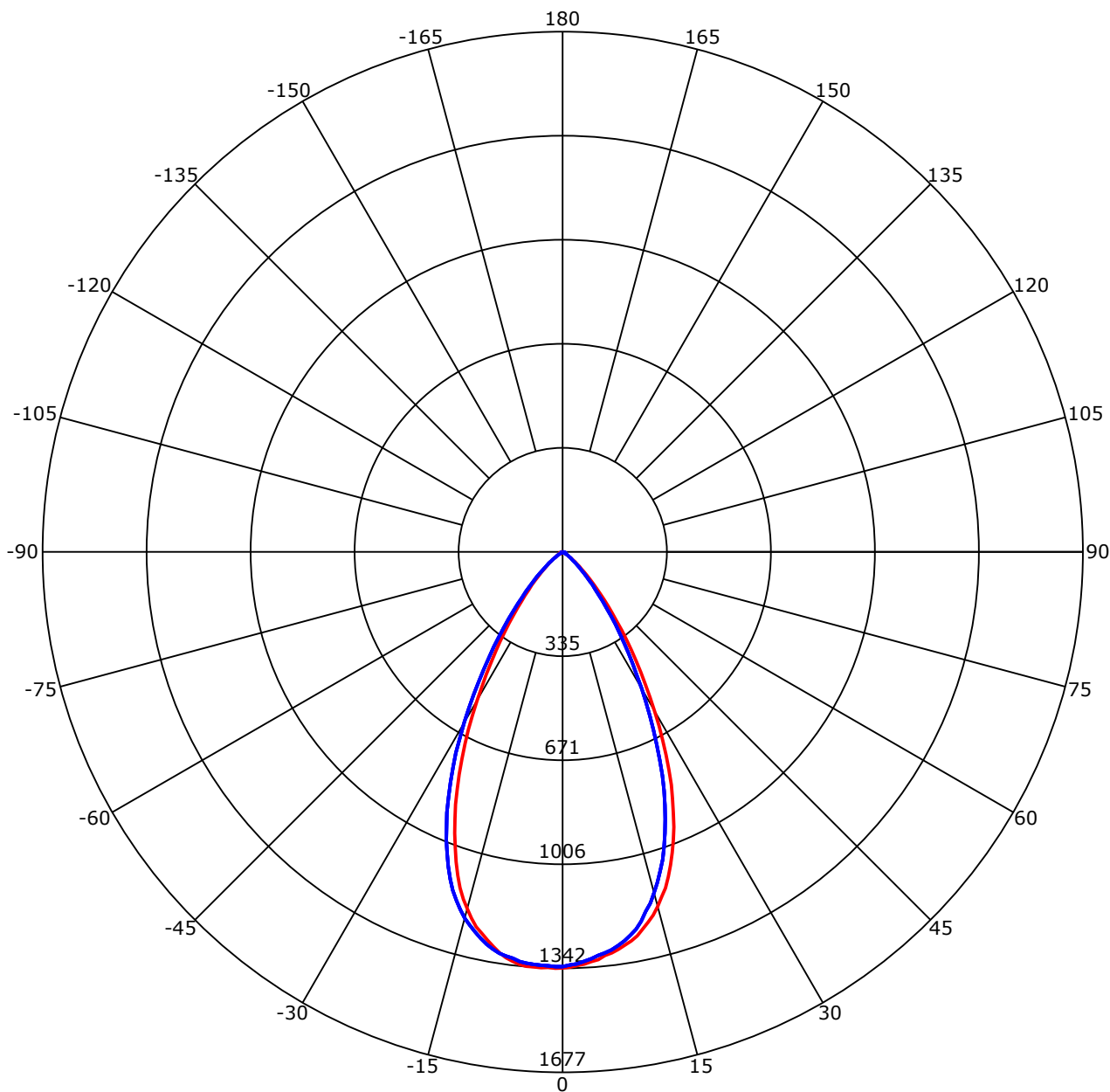
C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
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Remarks:

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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: 2024/12/19 16:46:13

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

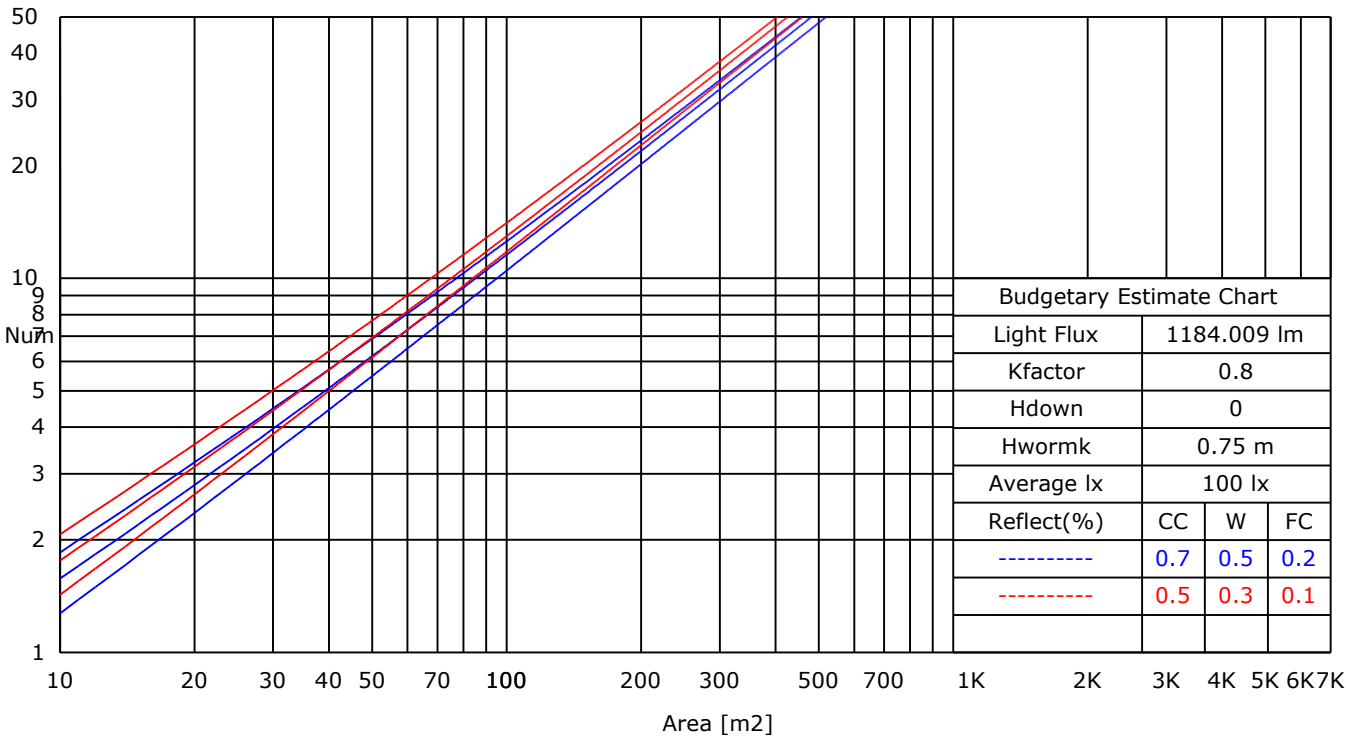
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UTILIZATION FACTORS TABLE

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	1.10	1.08	1.07	1.08	1.07	1.05	1.04	1.03	1.01	0.99	0.97	0.96	0.92	0.90	0.89	0.84
2	1.02	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.85	0.82	0.77
3	0.97	0.95	0.94	0.96	0.93	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
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	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.75	0.71	0.67
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	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.62
8	0.79	0.77	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
9	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.71	0.69	0.71	0.68	0.65	0.69	0.65	0.61	0.58
10	0.74	0.72	0.72	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



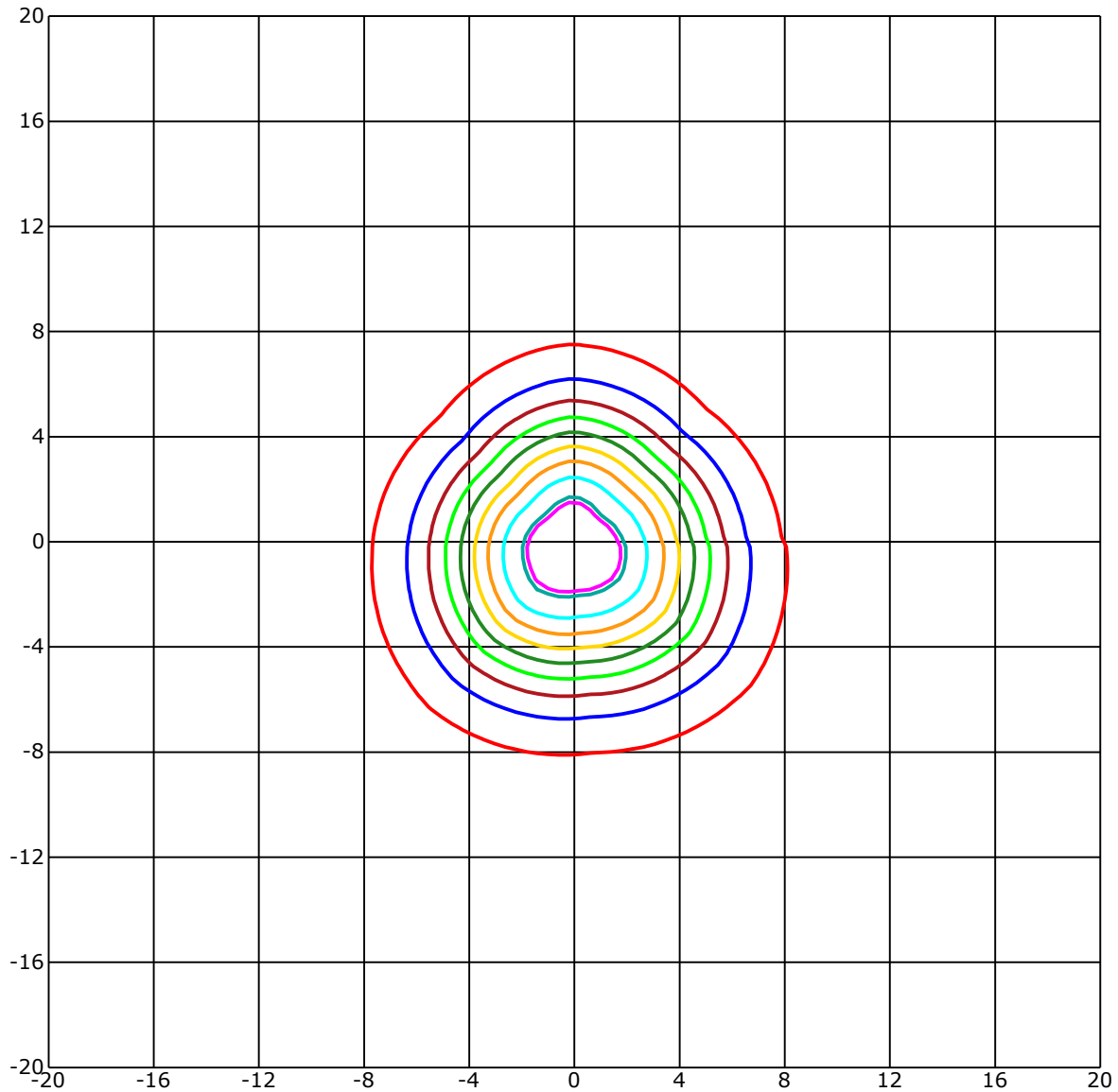
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 16:46:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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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)

12.339(92%Emax)	6.706(50%Emax)
12.071(90%Emax)	5.365(40%Emax)
10.73(80%Emax)	4.024(30%Emax)
9.389(70%Emax)	2.682(20%Emax)
8.047(60%Emax)	1.341(10%Emax)

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Test Speed: High
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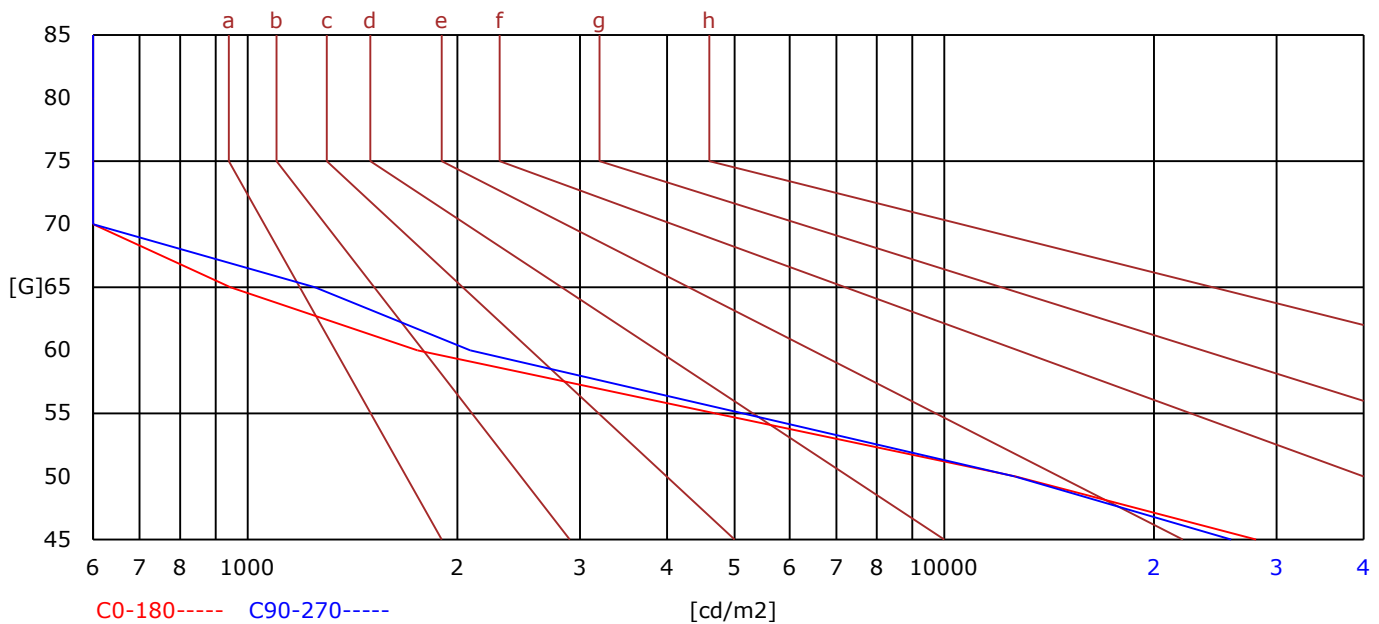
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	28038	12666	4694	1752	945	0	0	0	0
C90	25815	12626	5143	2087	1250	301	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



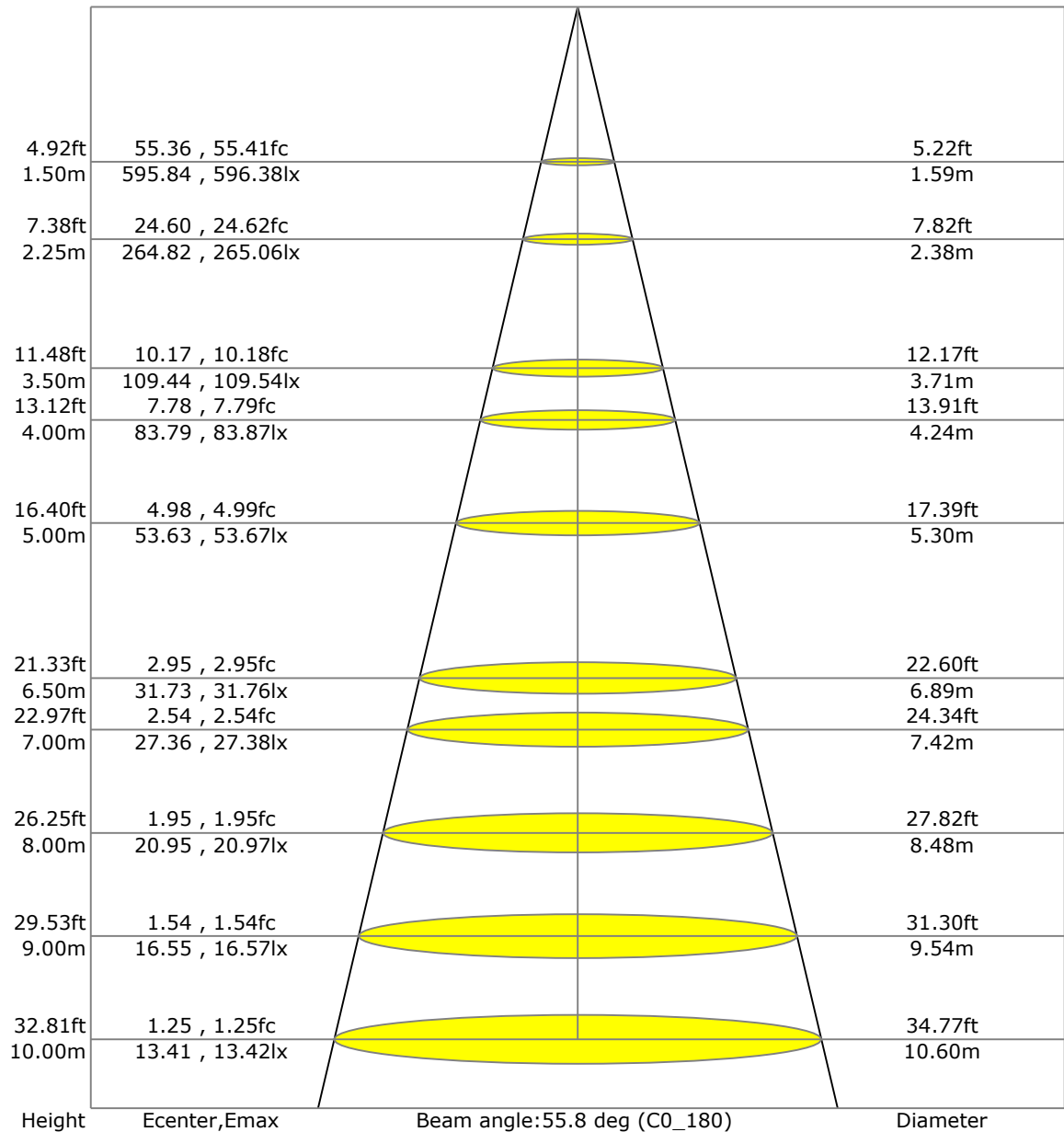
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 16:46:13

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: 2024/12/19 16:46:13

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 Y	Viewed Endwise					Viewed Crosswise				
2H 2H	14.62	14.67	14.82	14.85	15.10	14.49	14.54	14.69	14.73	14.97
3H	14.59	14.64	14.79	14.83	15.08	14.46	14.51	14.67	14.71	14.95
4H	14.57	14.62	14.78	14.82	15.07	14.44	14.50	14.66	14.69	14.94
6H	14.55	14.60	14.77	14.80	15.05	14.43	14.48	14.64	14.68	14.93
8H	14.54	14.59	14.76	14.80	15.05	14.42	14.47	14.64	14.67	14.92
12H	14.53	14.58	14.75	14.79	15.04	14.41	14.46	14.63	14.66	14.92
4H 2H	14.57	14.62	14.78	14.82	15.07	14.49	14.55	14.70	14.74	14.99
3H	14.54	14.59	14.76	14.79	15.05	14.46	14.51	14.68	14.71	14.97
4H	14.51	14.56	14.74	14.78	15.04	14.44	14.49	14.66	14.70	14.96
6H	14.49	14.54	14.73	14.76	15.02	14.41	14.46	14.65	14.68	14.94
8H	14.48	14.52	14.72	14.75	15.02	14.40	14.44	14.64	14.67	14.94
12H	14.46	14.51	14.71	14.74	15.01	14.38	14.43	14.63	14.66	14.93
8H 4H	14.54	14.60	14.76	14.80	15.05	14.49	14.54	14.71	14.75	15.00
6H	14.45	14.49	14.70	14.73	15.00	14.40	14.44	14.65	14.68	14.95
8H	14.43	14.47	14.69	14.72	14.99	14.38	14.42	14.64	14.67	14.94
12H	14.41	14.45	14.68	14.70	14.98	14.36	14.40	14.63	14.65	14.93
12H 4H	14.46	14.51	14.71	14.74	15.01	14.44	14.48	14.68	14.71	14.98
6H	14.43	14.47	14.69	14.72	14.99	14.41	14.45	14.67	14.69	14.97

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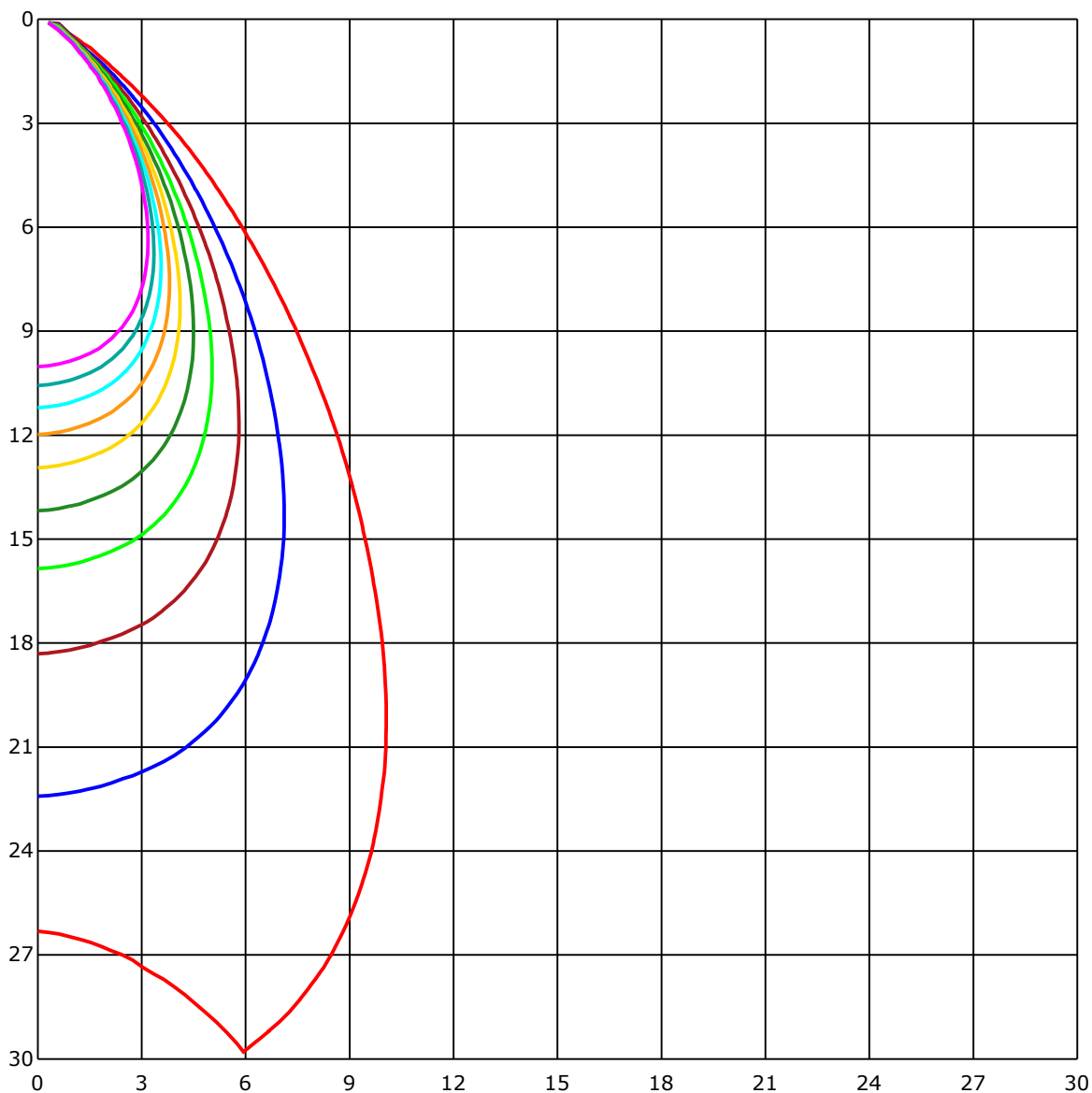
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



13.337	6.668
12.003	5.335
10.669	4.001
9.336	2.667
8.002	1.334

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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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1340.64	1324.36	1336.28	1330.21	1340.64	1324.36	1336.28	1330.21	1340.64	
G1	1338.32	1320.14	1331.09	1324.69	1341.85	1329.93	1336.51	1336.05	1338.32	
G2	1333.68	1310.4	1328.3	1317.87	1340.27	1330.86	1334.38	1334.89	1333.68	
G3	1329.7	1303.4	1321.12	1310.08	1341.52	1333.68	1333.27	1335.03	1329.7	
G4	1323.25	1297.09	1314.53	1302.89	1340.83	1334.15	1332.06	1334.43	1323.25	
G5	1318.98	1283.83	1304.84	1292.97	1340.83	1333.17	1330.67	1332.01	1318.98	
G6	1307.39	1270.98	1299.46	1282.44	1336.75	1332.34	1327.66	1329.93	1307.39	
G7	1301.68	1257.07	1291.9	1269.45	1329.46	1332.94	1319.21	1328.54	1301.68	
G8	1292.87	1240.14	1281.19	1254.24	1320.28	1328.81	1315.23	1330.02	1292.87	
G9	1282.53	1224.42	1269.04	1233.47	1307.25	1327.19	1308.78	1322.18	1282.53	
G10	1272.79	1203.65	1254.52	1215.84	1291.2	1322.6	1299.46	1314.53	1272.79	
G11	1260.27	1185.51	1238.71	1188.76	1273.86	1317.59	1288.1	1306.18	1260.27	
G12	1241.91	1159.36	1216.68	1162.0	1257.02	1307.99	1272.75	1297.7	1241.91	
G13	1224.56	1134.36	1189.08	1131.21	1240.56	1299.51	1256.7	1285.5	1224.56	
G14	1206.47	1105.65	1166.41	1099.72	1216.17	1287.26	1240.0	1271.63	1206.47	
G15	1182.64	1077.5	1137.05	1065.35	1190.8	1274.09	1221.78	1256.42	1182.64	
G16	1157.18	1044.39	1108.2	1027.46	1163.99	1256.61	1198.73	1240.98	1157.18	
G17	1132.18	1010.03	1075.09	985.45	1131.44	1239.03	1174.48	1218.58	1132.18	
G18	1100.46	971.25	1042.03	943.34	1095.91	1211.25	1146.79	1198.92	1100.46	
G19	1067.49	931.74	1004.09	899.84	1056.12	1184.72	1115.11	1176.84	1067.49	
G20	1032.05	887.13	964.48	857.63	1013.97	1152.26	1078.99	1152.45	1032.05	
G21	994.81	842.28	922.93	808.2	971.07	1120.4	1040.45	1122.9	994.81	
G22	955.81	795.49	880.26	763.54	927.1	1079.36	1000.98	1090.91	955.81	
G23	913.33	750.37	836.3	716.0	883.93	1038.31	959.34	1057.33	913.33	
G24	869.46	699.77	789.09	670.23	837.23	994.54	919.64	1023.38	869.46	
G25	828.14	651.54	742.3	622.04	790.9	948.95	872.01	980.76	828.14	
G26	780.05	604.51	692.58	576.32	741.6	900.99	825.91	941.02	780.05	
G27	733.53	559.81	643.89	529.8	694.02	854.29	779.21	900.07	733.53	
G28	687.2	513.38	598.07	486.81	647.78	808.24	734.04	856.33	687.2	
G29	640.22	472.25	552.57	445.86	599.87	760.38	683.77	809.68	640.22	
G30	592.59	430.42	508.56	405.7	552.94	711.08	634.7	762.1	592.59	
G31	547.33	392.43	465.57	366.83	506.98	664.85	586.52	715.03	547.33	
G32	503.37	354.96	426.24	331.13	465.38	616.38	541.07	667.72	503.37	
G33	462.69	321.29	389.42	298.75	424.85	569.03	497.8	619.96	462.69	
G34	423.51	289.57	353.62	268.89	385.85	523.31	455.97	574.28	423.51	
G35	386.13	260.4	319.35	240.51	352.27	479.76	414.37	532.21	386.13	
G36	350.19	232.85	288.6	214.12	317.77	437.84	377.32	490.33	350.19	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	316.42	206.65	258.31	191.53	286.05	398.6	342.07	449.29	316.42	
G38	283.78	182.35	229.89	170.85	256.51	360.76	308.45	409.78	283.78	
G39	254.65	162.32	203.73	151.05	230.95	327.69	277.1	371.66	254.65	
G40	227.75	142.61	180.91	132.5	207.3	295.6	248.11	337.62	227.75	
G41	202.9	124.47	160.6	115.01	184.81	266.11	220.8	303.49	202.9	
G42	180.17	107.36	142.98	100.54	163.89	238.09	196.54	271.72	180.17	
G43	159.26	93.49	125.49	87.74	145.39	212.22	173.68	244.03	159.26	
G44	140.66	82.13	109.54	76.34	128.46	188.29	152.76	218.2	140.66	
G45	123.64	71.37	96.18	65.71	113.34	167.79	133.93	194.73	123.64	
G46	107.73	61.03	83.48	57.23	99.11	149.38	117.8	173.4	107.73	
G47	94.7	51.34	73.09	49.16	87.65	133.15	102.86	154.25	94.7	
G48	82.32	42.3	63.72	41.41	77.12	115.94	89.46	136.53	82.32	
G49	70.58	35.2	55.05	34.92	67.52	100.91	77.26	120.02	70.58	
G50	60.43	29.31	47.03	29.22	59.13	88.81	66.6	106.02	60.43	
G51	51.11	24.07	40.25	24.49	51.48	78.28	56.9	93.49	51.11	
G52	42.57	19.39	34.6	20.41	44.34	68.64	47.67	81.11	42.57	
G53	35.34	15.58	29.73	16.6	38.45	60.06	39.65	70.17	35.34	
G54	29.36	12.29	25.41	13.31	33.25	51.99	32.74	60.43	29.36	
G55	23.65	9.69	21.52	10.62	28.52	44.61	26.85	51.8	23.65	
G56	18.74	7.47	18.55	8.67	24.53	38.21	21.98	43.87	18.74	
G57	14.75	5.8	16.05	6.82	21.15	32.93	17.81	37.05	14.75	
G58	11.32	4.59	14.01	5.47	18.23	28.1	14.14	31.3	11.32	
G59	8.72	3.94	12.2	4.45	15.63	24.12	11.08	26.48	8.72	
G60	6.63	3.15	10.99	3.76	13.5	20.64	8.9	22.08	6.63	
G61	5.05	2.78	10.02	3.15	12.01	17.67	6.91	18.46	5.05	
G62	4.17	2.46	9.32	2.83	10.85	15.07	5.66	15.63	4.17	
G63	3.48	2.13	8.53	2.46	10.06	13.26	4.54	13.36	3.48	
G64	2.97	1.76	8.02	2.32	9.14	11.73	3.85	11.78	2.97	
G65	2.64	1.44	7.47	1.9	8.63	10.71	3.29	10.53	2.64	
G66	2.23	0.97	7.1	1.53	8.12	9.65	2.83	9.65	2.23	
G67	1.99	0.7	6.54	1.16	7.47	9.04	2.37	8.9	1.99	
G68	1.53	0.46	5.94	0.83	6.96	8.39	2.13	8.35	1.53	
G69	1.21	0.32	5.47	0.6	6.45	7.93	1.62	7.7	1.21	
G70	0.74	0.0	5.05	0.37	5.8	7.23	1.3	7.28	0.74	
G71	0.46	0.0	4.73	0.09	5.47	6.72	0.88	6.63	0.46	
G72	0.32	0.0	4.31	0.05	5.05	6.12	0.51	6.17	0.32	
G73	0.23	0.0	4.13	0.0	4.78	5.66	0.42	5.52	0.23	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/19 16:46:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/12/19 16:46:13

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