

Report No.:

Test Time: 2023/7/18 10:05:22

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT165-25W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

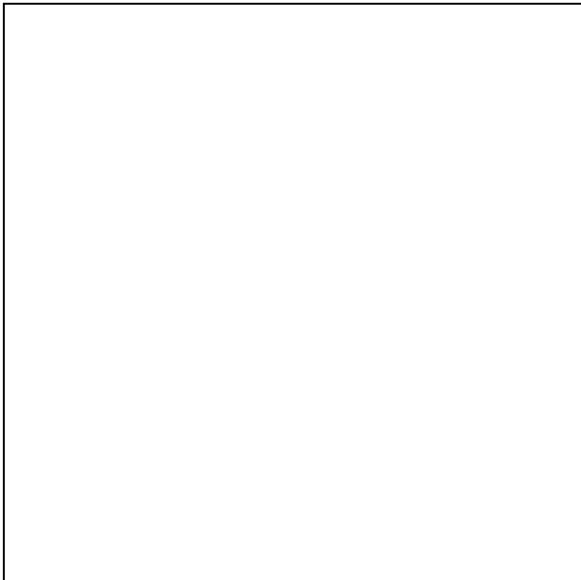
Voltage(V): 219.90 V
Current(A): 0.1180 A
Power(W): 25.00 W
Power Factor: 0.9630
Lamp Luminous Flux: 2627.32

Photometric Results

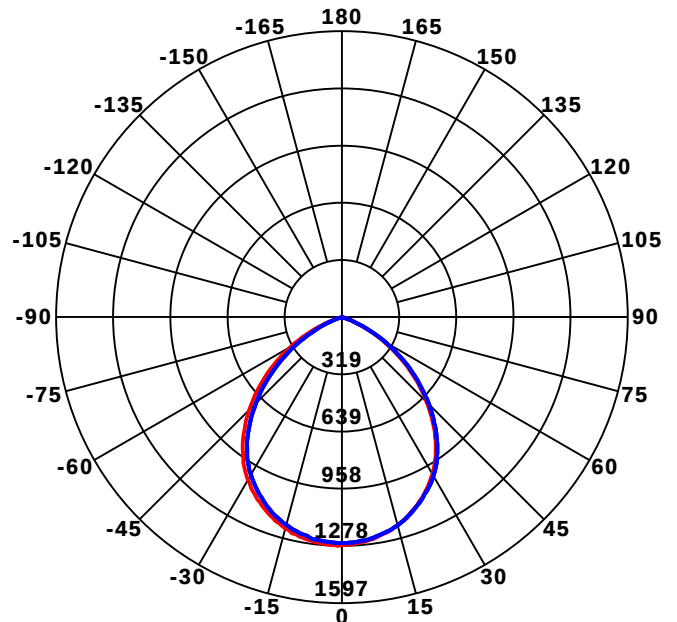
CIE Class: Direct
Luminaire Luminous Flux: 2627.316 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.09 lm/W
Beam Angle(50%) C0-180,C90-270: 94.7,93.9
Field Angle(10%) C0-180,C90-270: 133.6,132.2
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1277.60 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1273.50 cd
Effective Luminous Flux: 2579.39 lm
ERP(ϕ use)(120deg): 2449.84 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 94.7 deg,93.9 deg

C0-180 — C90-270 —

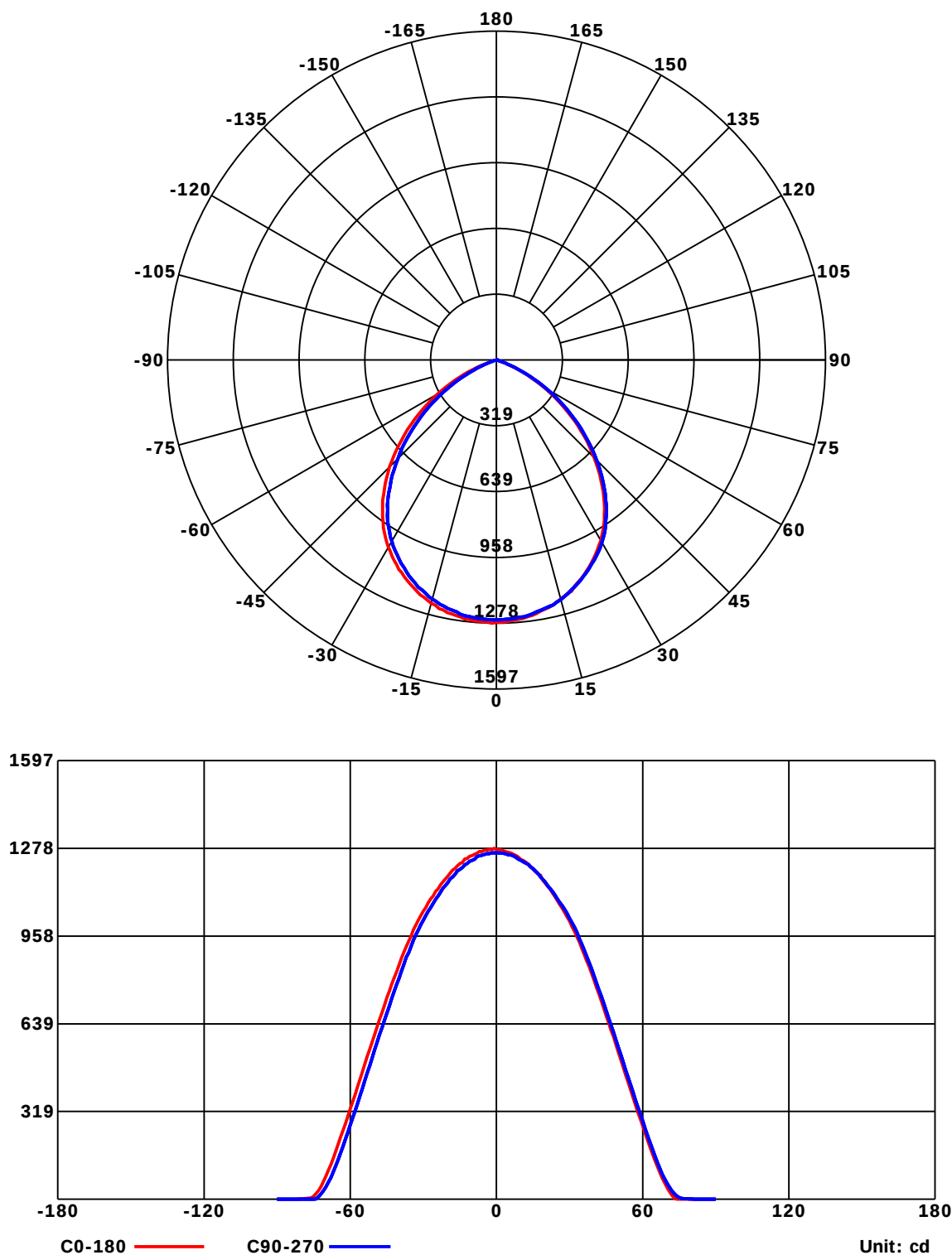
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 30
Operators: QC01
Test Date: 2023/7/18 10:05:22

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 65
Test Distance: 6.66 m
Remarks:

Report No.:

Test Time: 2023/7/18 10:05:22

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

Test Date: 2023/7/18 10:05:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

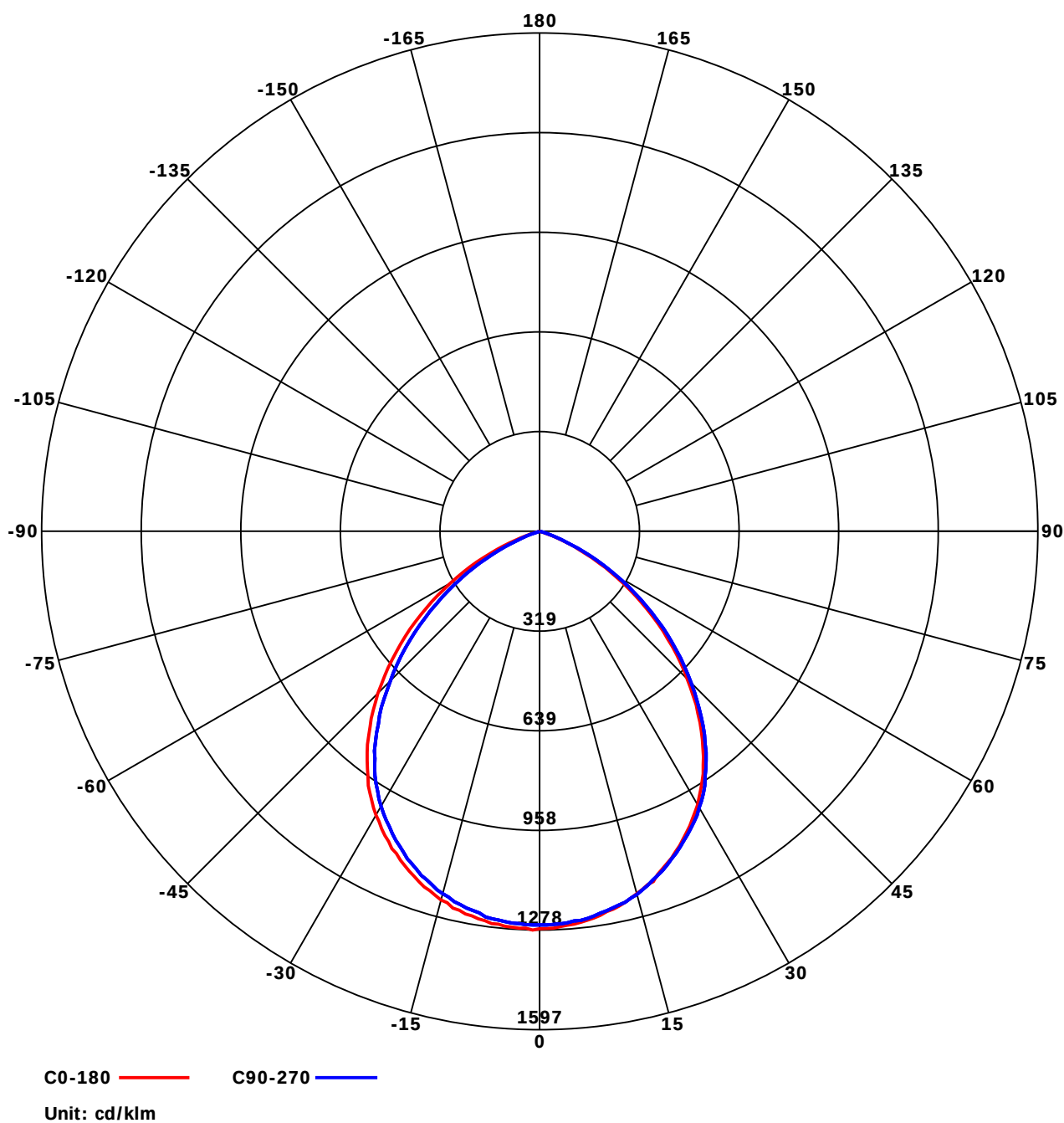
Test Distance: 6.66 m

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Luminous Intensity Distribution Curve



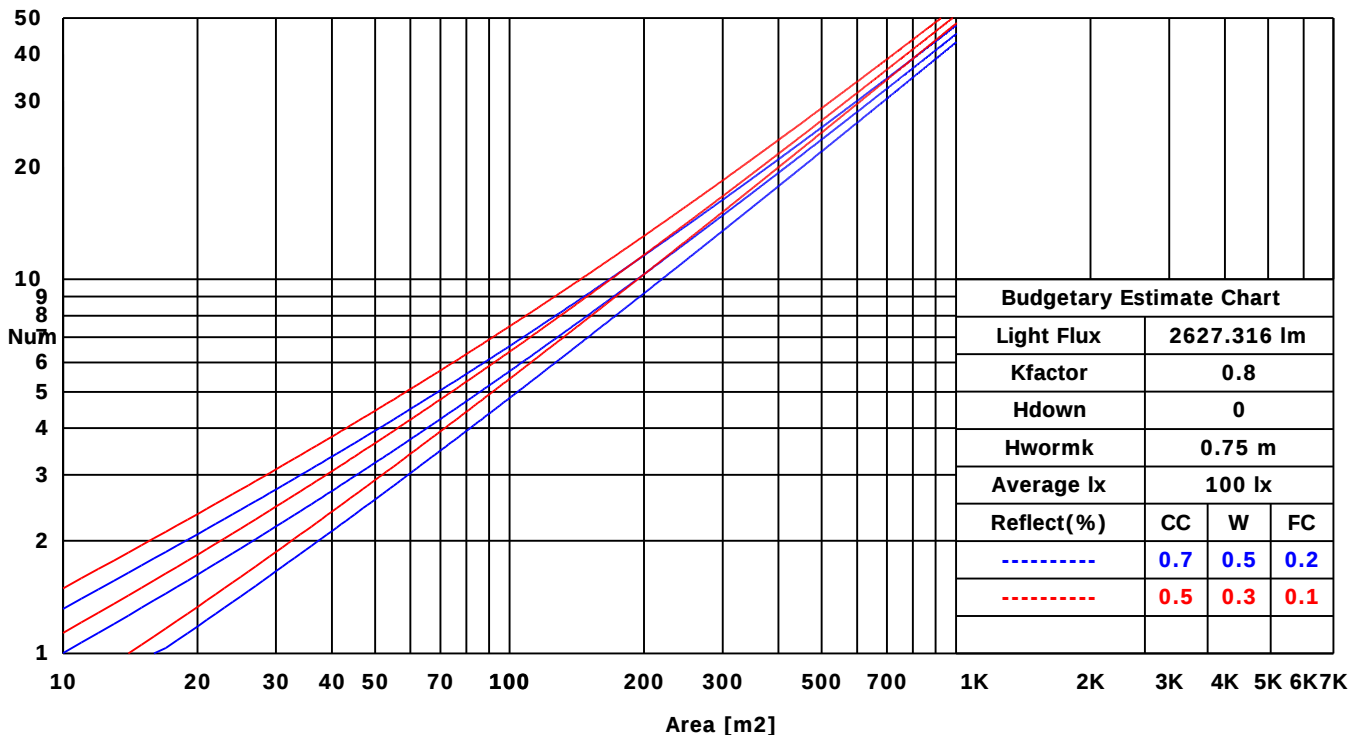
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800 Goniophotometer
 Humidity: 65
 Test Distance: 6.66 m
 Remarks:

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	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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.02	1.00	0.98	0.96	0.95	0.91	0.90	0.88	0.83
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.86	0.83	0.80	0.76
3	0.92	0.90	0.89	0.91	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.69
4	0.84	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.76	0.71	0.68	0.63
5	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.72	0.70	0.69	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.64	0.61	0.67	0.62	0.58	0.54
7	0.67	0.65	0.64	0.67	0.64	0.62	0.66	0.62	0.60	0.65	0.60	0.57	0.63	0.57	0.53	0.50
8	0.62	0.61	0.59	0.62	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.53	0.59	0.54	0.50	0.47
9	0.58	0.57	0.56	0.58	0.56	0.54	0.58	0.54	0.52	0.57	0.53	0.49	0.56	0.51	0.47	0.44
10	0.55	0.53	0.52	0.55	0.53	0.51	0.55	0.51	0.49	0.54	0.49	0.46	0.53	0.48	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

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Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

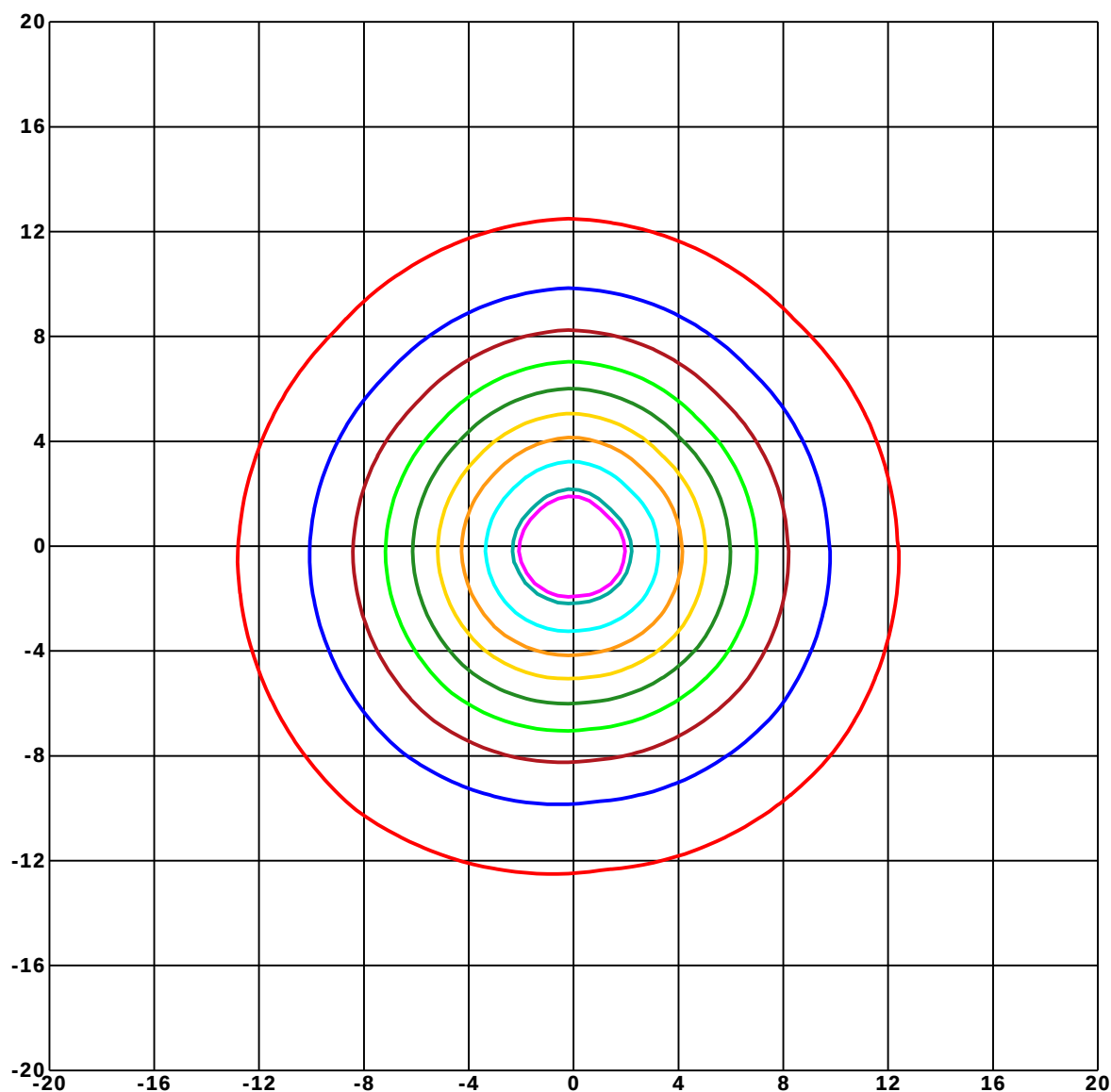
Test Distance: 6.66 m

Remarks:

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ISOLX DIAGRAM



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

11.749(1%Emax)	6.385(0%Emax)
11.493(1%Emax)	5.108(0%Emax)
10.216(1%Emax)	3.831(0%Emax)
8.939(1%Emax)	2.554(0%Emax)
7.662(1%Emax)	1.277(0%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

Test Date: 2023/7/18 10:05:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 m

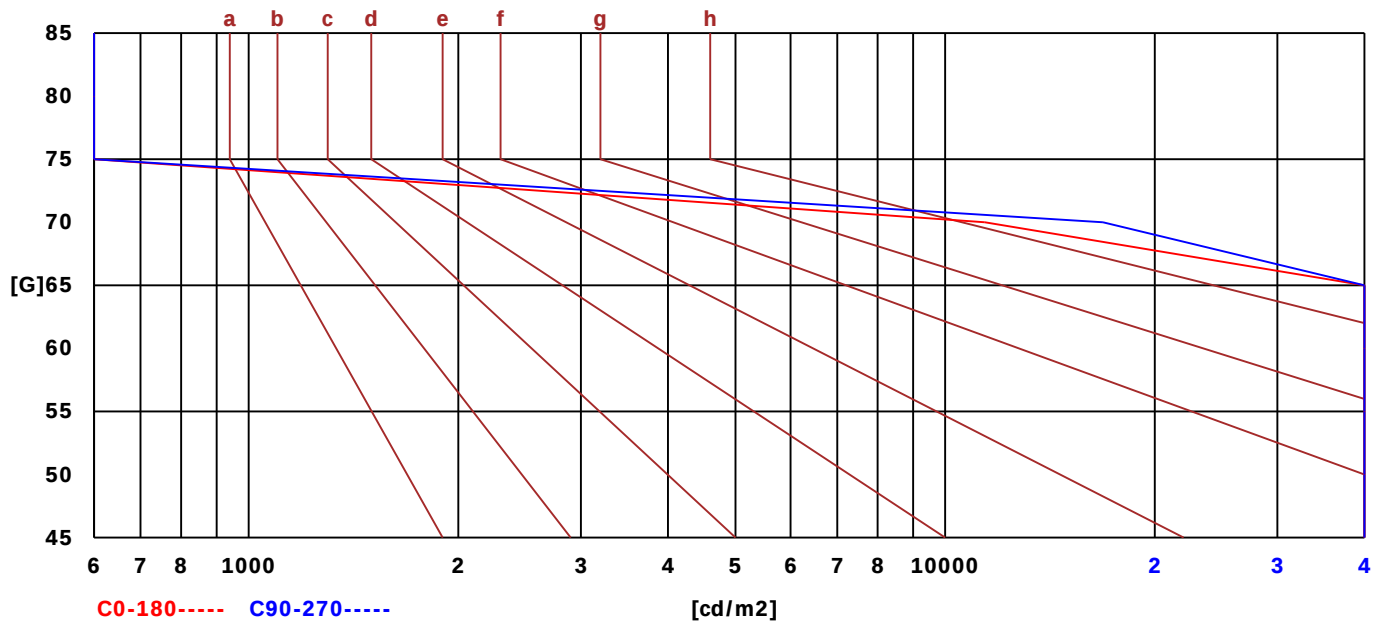
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	139167	120732	98939	73289	42432	11398	0	0	0
C90	145665	127447	105444	79972	48032	16853	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



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Temperature: 30

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

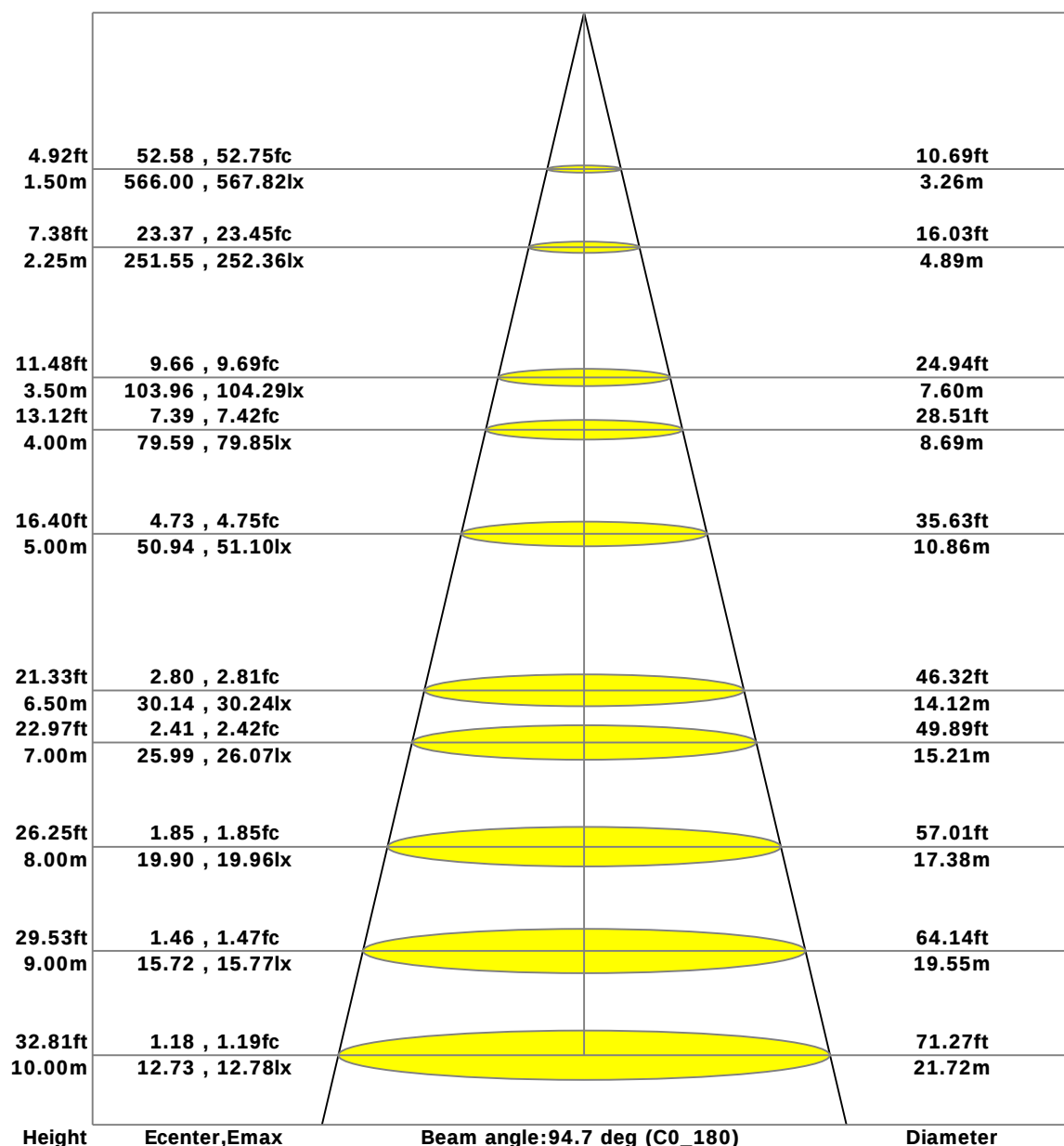
Test Distance: 6.66 m

Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

Test Date: 2023/7/18 10:05:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 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	23.88	23.94	24.08	24.13	24.37	24.00	24.06	24.20	24.25	24.49
	3H	23.84	23.91	24.05	24.10	24.35	23.96	24.02	24.17	24.22	24.46
	4H	23.82	23.88	24.03	24.08	24.33	23.94	24.00	24.15	24.20	24.44
	6H	23.79	23.85	24.01	24.05	24.31	23.91	23.97	24.13	24.17	24.42
	8H	23.78	23.84	24.00	24.04	24.29	23.90	23.96	24.12	24.16	24.41
	12H	23.76	23.82	23.99	24.03	24.28	23.88	23.94	24.10	24.15	24.40
4H	2H	24.10	24.16	24.31	24.36	24.61	24.28	24.34	24.49	24.54	24.79
	3H	24.06	24.12	24.28	24.32	24.58	24.24	24.29	24.46	24.50	24.75
	4H	24.03	24.09	24.26	24.30	24.56	24.21	24.26	24.43	24.47	24.73
	6H	24.00	24.05	24.23	24.27	24.53	24.17	24.23	24.41	24.45	24.71
	8H	23.98	24.03	24.22	24.26	24.52	24.16	24.21	24.40	24.43	24.70
	12H	23.96	24.01	24.21	24.24	24.51	24.14	24.19	24.39	24.42	24.69
8H	4H	24.06	24.12	24.28	24.32	24.58	24.24	24.30	24.46	24.50	24.76
	6H	23.94	23.99	24.20	24.23	24.50	24.12	24.16	24.37	24.40	24.67
	8H	23.92	23.96	24.18	24.21	24.49	24.10	24.14	24.36	24.39	24.66
	12H	23.90	23.94	24.17	24.19	24.47	24.08	24.12	24.35	24.37	24.65
12H	4H	23.96	24.01	24.21	24.24	24.51	24.14	24.19	24.39	24.42	24.69
	6H	23.92	23.96	24.18	24.21	24.49	24.10	24.14	24.36	24.39	24.66

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Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 m

Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

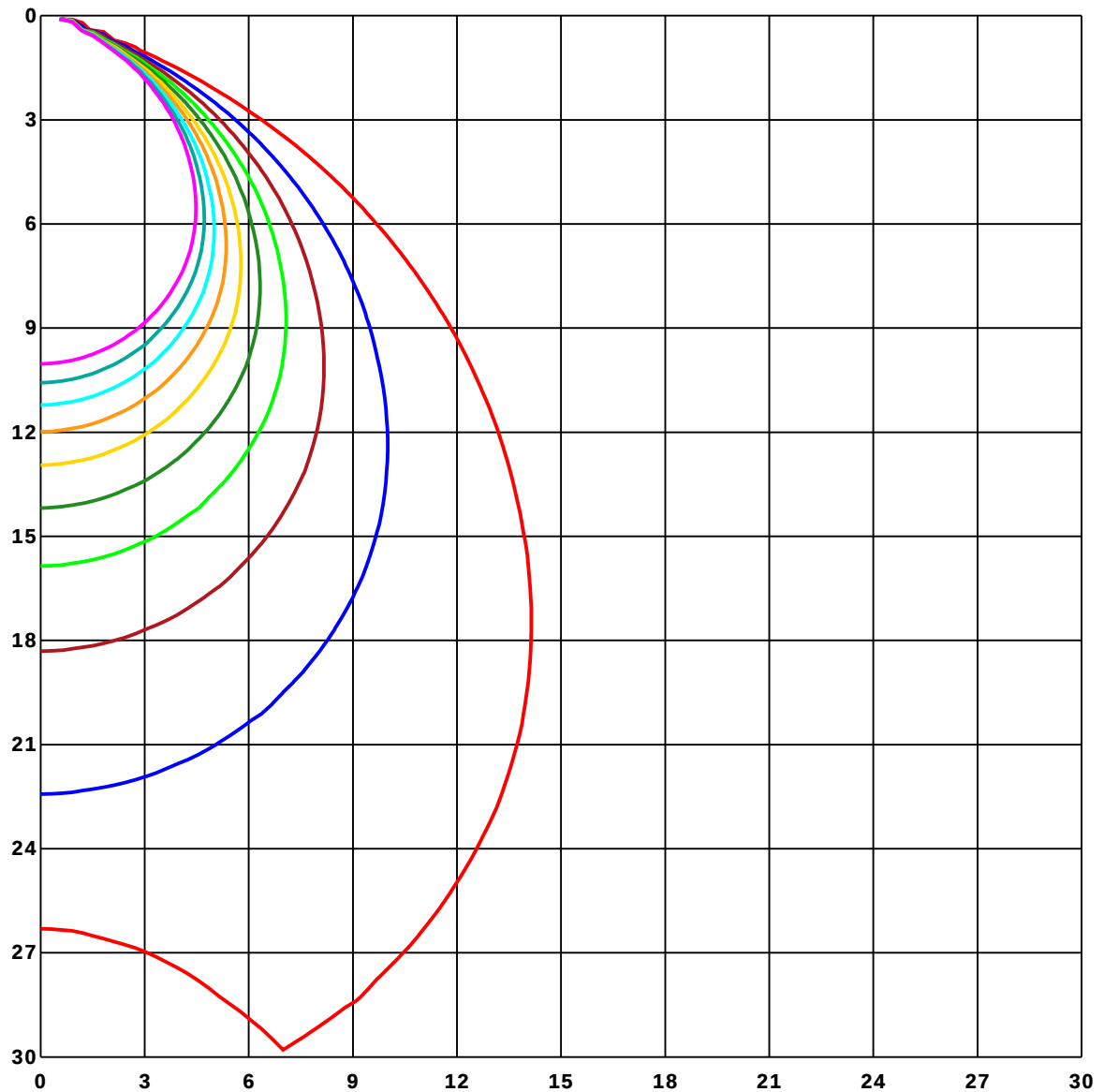
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1273.5	1255.32	1261.2	1268.33	1273.5	1255.32	1261.2	1268.33	1273.5	
G1	1272.43	1258.17	1261.02	1264.76	1277.6	1260.13	1261.02	1268.86	1272.43	
G2	1272.07	1254.61	1259.95	1266.37	1272.43	1256.92	1261.2	1268.51	1272.07	
G3	1267.79	1252.47	1259.6	1262.45	1273.5	1259.06	1258.7	1265.48	1267.79	
G4	1265.3	1244.45	1257.81	1261.02	1271.36	1257.81	1257.99	1268.15	1265.3	
G5	1263.52	1245.87	1253.54	1255.5	1270.65	1258.17	1255.32	1263.52	1263.52	
G6	1259.95	1236.96	1253.54	1255.14	1266.01	1256.21	1252.29	1265.12	1259.95	
G7	1255.5	1237.5	1249.97	1250.51	1266.37	1254.25	1250.69	1256.39	1255.5	
G8	1251.4	1229.66	1244.98	1247.83	1259.95	1253.54	1247.83	1256.92	1251.4	
G9	1245.34	1223.06	1238.39	1241.06	1256.57	1253.18	1237.68	1250.51	1245.34	
G10	1237.5	1212.55	1234.29	1233.4	1251.4	1247.12	1233.76	1246.77	1237.5	
G11	1233.04	1211.66	1228.77	1226.09	1248.9	1242.67	1230.01	1239.64	1233.04	
G12	1227.16	1199.18	1223.78	1221.28	1240.88	1235.0	1222.35	1236.79	1227.16	
G13	1219.85	1195.44	1219.85	1209.52	1239.1	1230.55	1217.72	1226.81	1219.85	
G14	1210.59	1182.97	1210.41	1205.95	1226.45	1222.71	1208.27	1221.28	1210.59	
G15	1201.86	1178.15	1204.53	1195.8	1222.88	1216.65	1201.32	1213.97	1201.86	
G16	1192.95	1162.11	1195.26	1187.42	1213.8	1211.84	1195.26	1208.98	1192.95	
G17	1183.68	1156.41	1185.82	1178.33	1203.82	1208.81	1183.14	1198.83	1183.68	
G18	1180.11	1143.58	1174.77	1166.93	1198.29	1194.91	1173.52	1192.59	1180.11	
G19	1162.11	1132.53	1164.97	1154.27	1187.42	1186.17	1166.39	1179.04	1162.11	
G20	1150.71	1118.99	1154.99	1145.9	1176.73	1178.33	1153.56	1171.2	1150.71	
G21	1139.84	1107.76	1142.87	1132.18	1166.39	1167.82	1142.15	1159.62	1139.84	
G22	1128.61	1094.22	1130.57	1120.59	1154.99	1156.77	1131.82	1149.11	1128.61	
G23	1114.53	1085.31	1119.88	1111.15	1144.12	1148.04	1117.38	1136.81	1114.53	
G24	1102.06	1066.59	1107.58	1097.25	1130.21	1134.85	1103.66	1125.94	1102.06	
G25	1087.62	1053.41	1092.97	1081.03	1121.48	1125.05	1092.26	1113.46	1087.62	
G26	1073.19	1038.79	1080.85	1070.51	1105.27	1110.43	1077.64	1101.17	1073.19	
G27	1058.93	1023.64	1068.02	1051.98	1093.68	1100.45	1061.78	1085.66	1058.93	
G28	1042.89	1007.25	1054.48	1037.72	1079.78	1085.84	1048.59	1075.33	1042.89	
G29	1027.21	994.6	1040.22	1022.22	1062.67	1073.72	1033.62	1056.97	1027.21	
G30	1012.77	976.6	1022.4	1004.75	1050.2	1057.5	1016.87	1041.82	1012.77	
G31	992.81	958.78	1006.89	987.29	1034.52	1045.39	1001.19	1024.89	992.81	
G32	974.28	937.39	989.78	969.29	1016.87	1027.92	980.87	1010.28	974.28	
G33	955.21	917.61	971.25	948.44	999.76	1013.84	963.77	991.39	955.21	
G34	937.03	894.98	948.26	927.77	982.83	995.84	945.05	971.43	937.03	
G35	913.51	875.91	928.66	906.38	960.02	979.45	922.78	953.07	913.51	
G36	892.84	855.23	908.16	884.64	940.24	960.02	899.25	929.91	892.84	

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Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	869.49	829.22	885.71	861.12	919.75	941.13	880.54	907.99	869.49	
G38	846.68	806.05	861.29	835.99	899.07	918.14	855.23	886.24	846.68	
G39	823.16	782.52	839.2	810.5	878.22	899.79	831.0	862.72	823.16	
G40	799.1	757.04	814.6	788.23	852.56	875.37	804.98	839.73	799.1	
G41	772.72	733.52	789.3	762.39	828.86	853.1	782.35	812.64	772.72	
G42	749.56	705.36	764.17	737.44	807.12	829.93	758.64	788.41	749.56	
G43	721.93	682.37	738.51	712.13	782.7	808.01	730.31	762.92	721.93	
G44	695.56	655.1	713.91	685.4	756.51	782.17	702.33	737.44	695.56	
G45	668.47	629.8	687.0	659.2	733.69	760.6	677.02	712.49	668.47	
G46	643.52	602.89	660.81	633.9	705.72	732.27	651.9	685.58	643.52	
G47	616.43	579.72	634.61	604.67	679.88	709.1	624.99	657.42	616.43	
G48	590.95	550.85	607.7	579.54	653.86	680.41	598.61	630.15	590.95	
G49	563.5	524.48	579.36	552.63	626.95	658.13	571.17	603.42	563.5	
G50	535.52	496.67	552.63	524.3	599.86	628.91	544.43	577.58	535.52	
G51	509.51	470.48	527.33	496.32	573.31	603.07	516.1	549.25	509.51	
G52	482.24	442.85	500.42	469.94	547.46	577.05	488.12	521.45	482.24	
G53	454.26	416.12	471.72	441.61	520.38	550.67	459.61	494.71	454.26	
G54	426.28	389.03	443.75	415.94	492.75	522.34	433.05	466.91	426.28	
G55	399.19	363.19	417.01	387.07	464.95	495.6	404.18	439.47	399.19	
G56	371.75	335.93	391.0	360.52	437.51	467.98	377.99	411.49	371.75	
G57	344.84	310.98	362.66	333.97	412.02	441.07	349.83	384.22	344.84	
G58	318.11	285.14	336.82	308.31	382.98	412.56	323.63	357.49	318.11	
G59	291.91	260.01	309.73	281.04	355.0	385.83	296.19	328.26	291.91	
G60	266.43	234.53	285.14	255.91	329.69	358.38	271.06	302.6	266.43	
G61	240.76	209.04	257.52	229.54	302.07	332.01	243.97	275.87	240.76	
G62	215.81	182.49	232.03	203.16	275.69	304.92	219.02	250.92	215.81	
G63	190.69	159.5	207.79	176.79	250.92	279.79	193.36	224.37	190.69	
G64	164.85	137.04	181.78	153.26	224.9	253.06	167.52	199.95	164.85	
G65	140.97	114.77	157.36	129.92	199.24	228.64	143.28	173.22	140.97	
G66	120.29	93.74	134.73	107.46	173.76	202.63	121.36	150.41	120.29	
G67	98.73	74.31	112.81	86.97	148.98	176.96	99.26	126.35	98.73	
G68	77.34	55.42	91.78	67.9	125.82	152.37	78.41	105.14	77.34	
G69	59.17	39.38	73.6	51.86	104.08	130.09	60.77	86.08	59.17	
G70	42.24	24.95	57.56	36.89	83.22	107.64	44.73	67.72	42.24	
G71	26.91	12.65	43.66	24.06	64.51	86.61	31.37	51.5	26.91	
G72	14.61	2.67	30.3	13.54	46.87	67.19	19.96	38.32	14.61	
G73	4.28	0.0	20.14	4.63	32.26	50.79	9.45	26.55	4.28	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

Test Date: 2023/7/18 10:05:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 m

Remarks:

Report No.:

Test Time: 2023/7/18 10:05:22

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 30

Operators: QC01

Test Date: 2023/7/18 10:05:22

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 65

Test Distance: 6.66 m

Remarks: