

Report No.:

Test Time: 2023/7/18 9:40:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT200-30W
Lamp Type: -
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

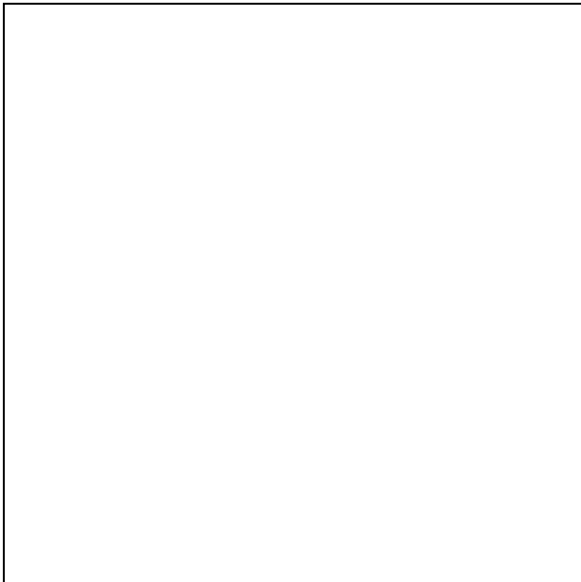
Voltage(V): 219.70 V
Current(A): 0.1410 A
Power(W): 30.00 W
Power Factor: 0.9750
Lamp Luminous Flux: 3151.52

Photometric Results

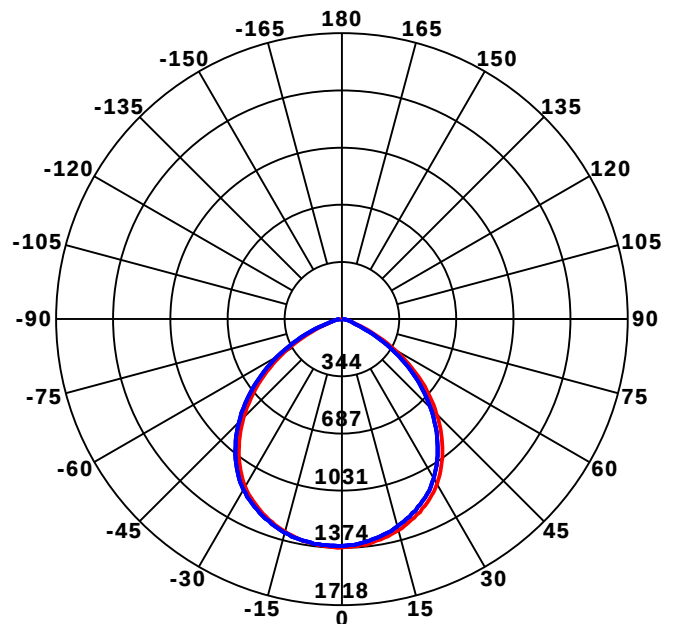
CIE Class: Direct
Luminaire Luminous Flux: 3151.521 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.05 lm/W
Beam Angle(50%) C0-180,C90-270: 99.6,99.6
Field Angle(10%) C0-180,C90-270: 138.1,138.1
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 1374.24 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1372.04 cd
Effective Luminous Flux: 3046.45 lm
ERP(ϕ use)(120deg): 2812.20 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 99.6 deg,99.6 deg

C0-180 — C90-270 —

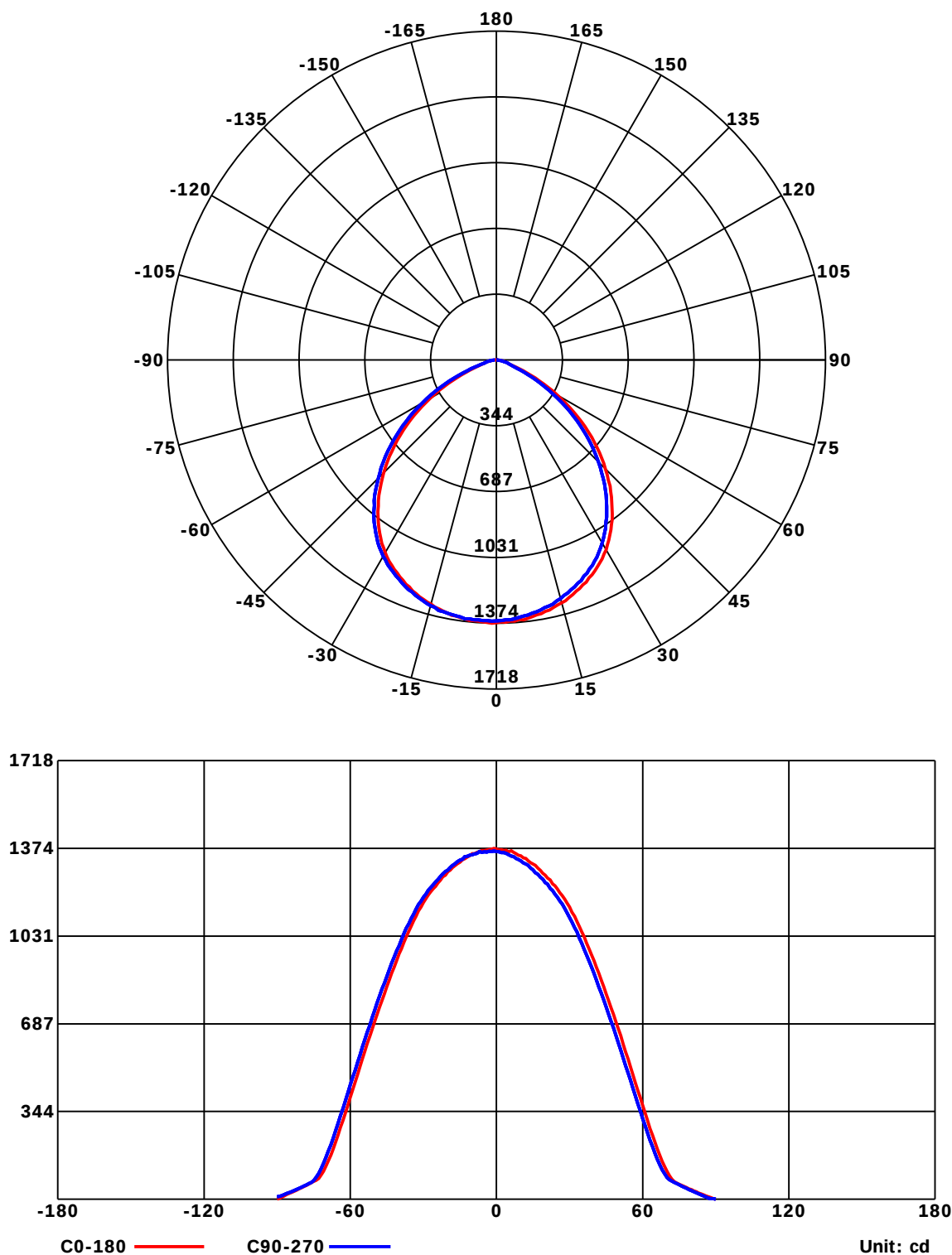
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.66
Operators: QC01
Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 1.273
Test Distance: 6.66 m
Remarks:

Report No.:

Test Time: 2023/7/18 9:40:11

Luminous Intensity Distribution Curve



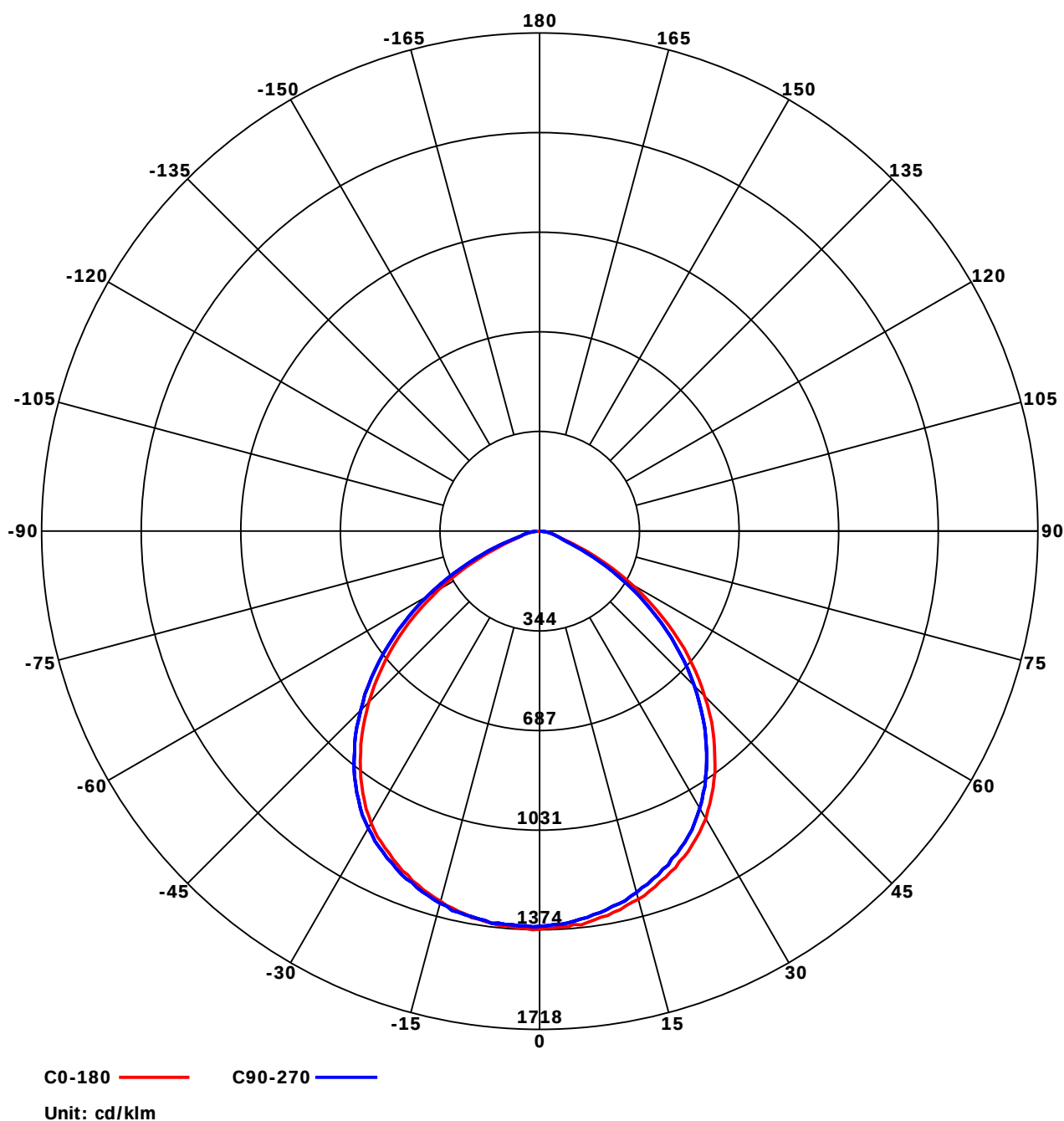
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Test Speed: High
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Luminous Intensity Distribution Curve



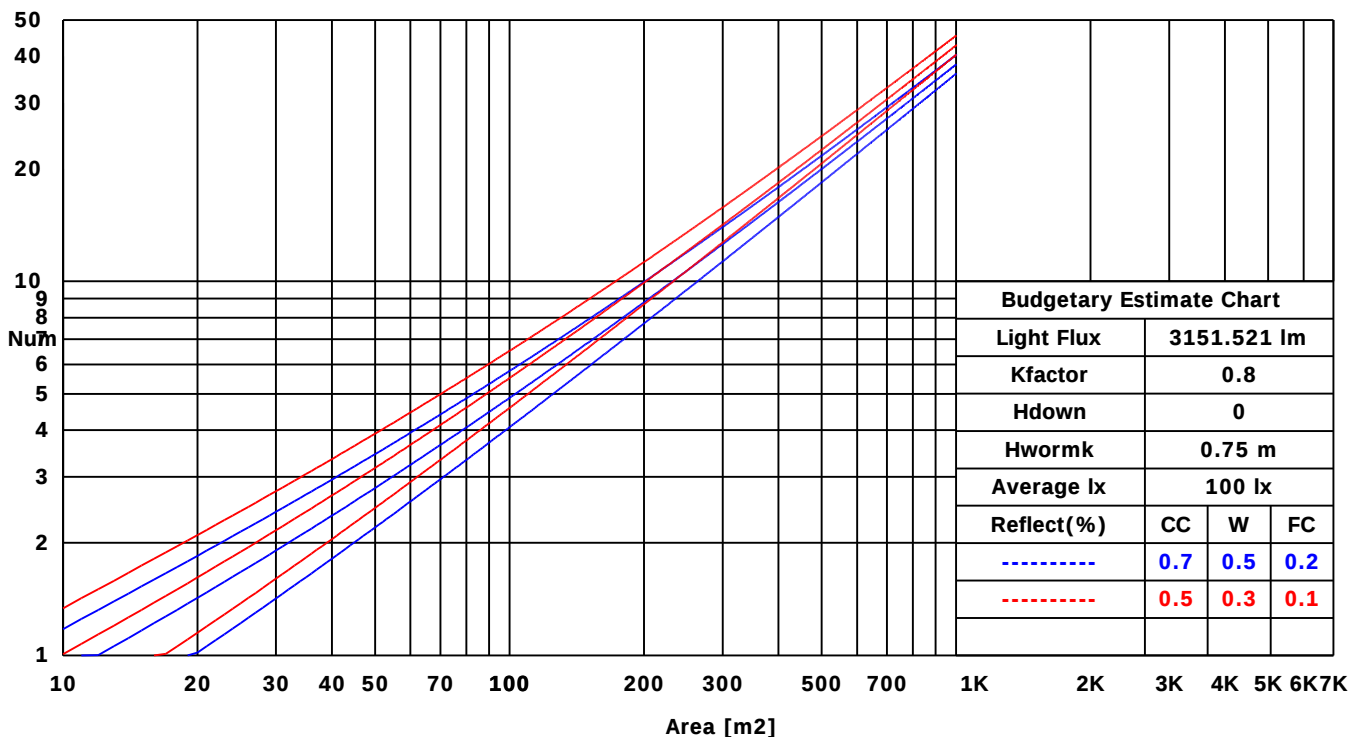
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G Range: 0 - 90 Deg
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 Humidity: 1.273
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 Remarks:

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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.98	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.89	0.90	0.87	0.85	0.85	0.82	0.79	0.74
3	0.90	0.88	0.86	0.89	0.86	0.84	0.86	0.83	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.67
4	0.82	0.80	0.78	0.81	0.79	0.77	0.80	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
5	0.75	0.73	0.71	0.75	0.72	0.70	0.73	0.70	0.67	0.71	0.67	0.63	0.69	0.64	0.60	0.56
6	0.69	0.67	0.66	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.62	0.58	0.64	0.59	0.55	0.51
7	0.64	0.62	0.61	0.64	0.61	0.59	0.63	0.59	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.47
8	0.59	0.57	0.56	0.59	0.57	0.55	0.59	0.55	0.52	0.58	0.53	0.50	0.57	0.51	0.47	0.44
9	0.55	0.53	0.52	0.55	0.53	0.51	0.55	0.51	0.49	0.55	0.50	0.47	0.54	0.48	0.44	0.41
10	0.52	0.50	0.49	0.52	0.49	0.48	0.52	0.48	0.46	0.52	0.47	0.44	0.51	0.45	0.41	0.38

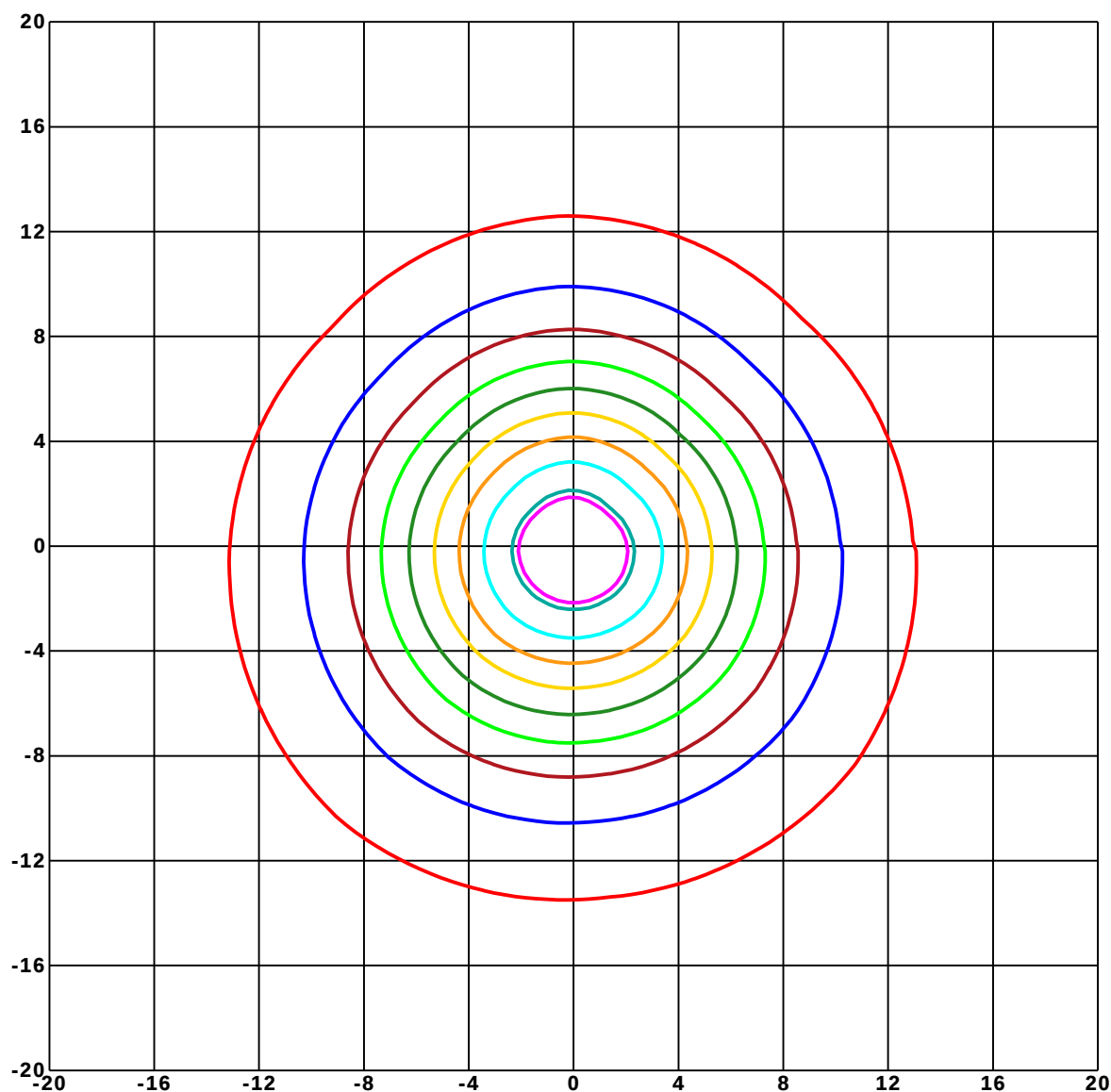
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.66
 Operators: QC01
 Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800 Goniophotometer
 Humidity: 1.273
 Test Distance: 6.66 m
 Remarks:

ISOLX DIAGRAM



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

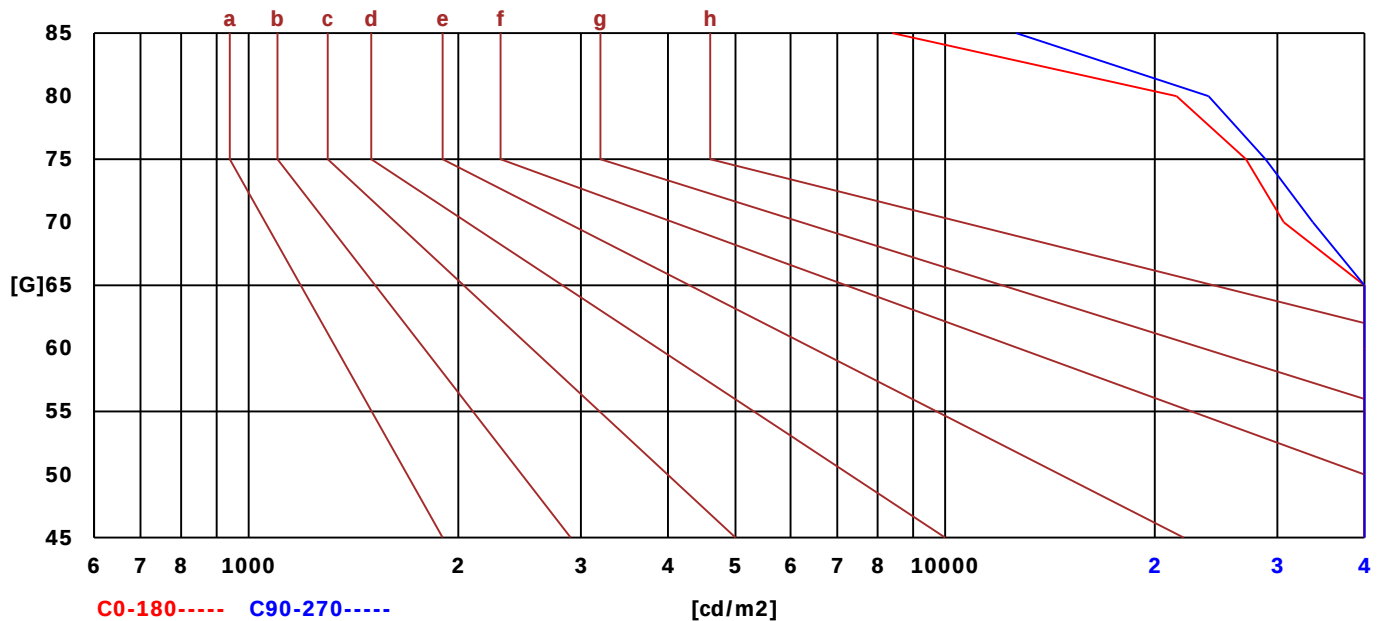
12.637(1%Emax)	6.868(0%Emax)
12.362(1%Emax)	5.494(0%Emax)
10.989(1%Emax)	4.121(0%Emax)
9.615(1%Emax)	2.747(0%Emax)
8.242(1%Emax)	1.374(0%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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G Range: 0 - 90 Deg
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Test System: Huipu CPM-1800 Goniophotometer
Humidity: 1.273
Test Distance: 6.66 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	157336	138463	114486	85844	53923	30645	27032	21492	8402
C90	162127	144008	120777	92690	60541	33741	28838	23879	12654
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



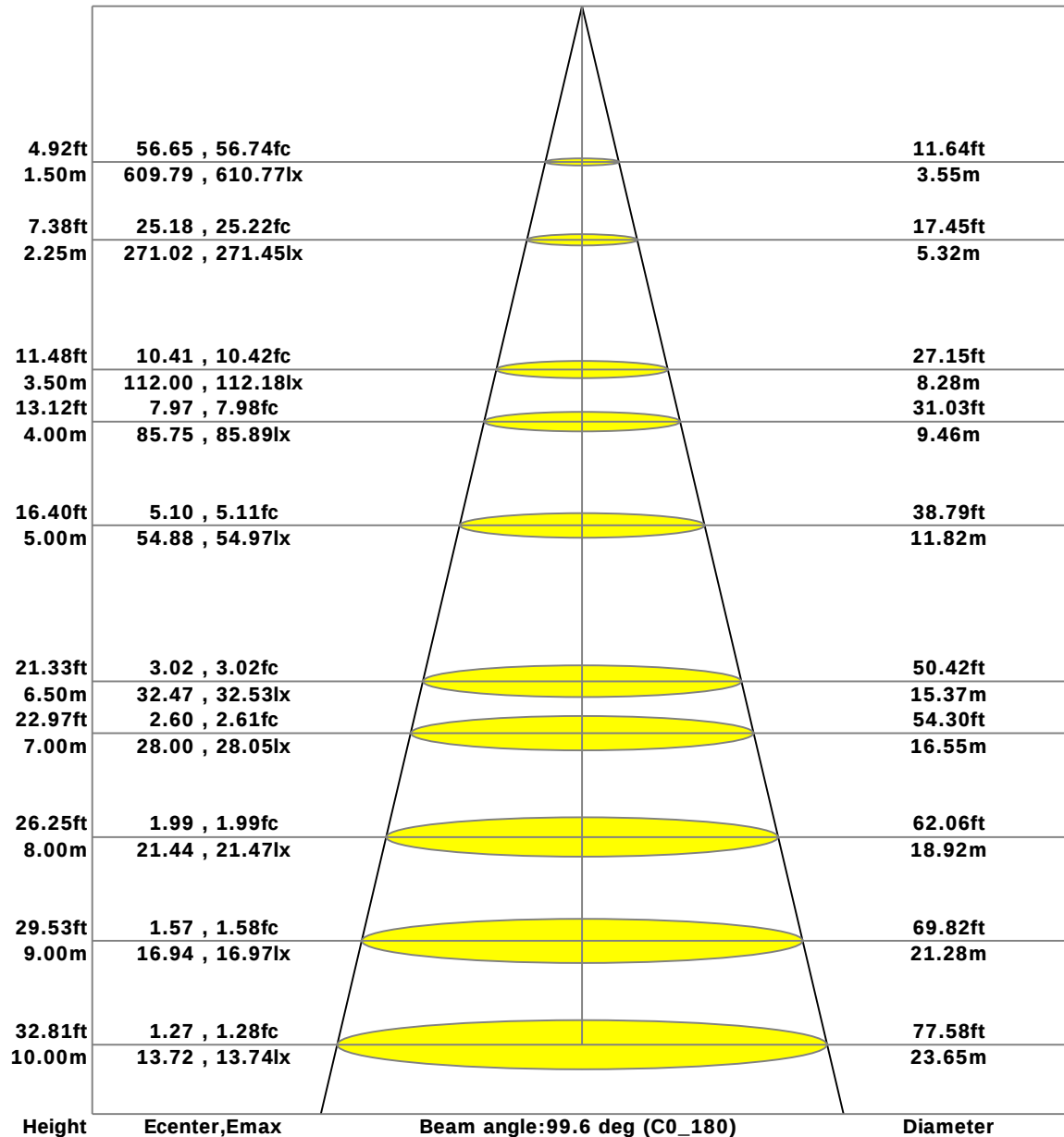
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.66
 Operators: QC01
 Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800 Goniophotometer
 Humidity: 1.273
 Test Distance: 6.66 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.66
 Operators: QC01
 Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800 Goniophotometer
 Humidity: 1.273
 Test Distance: 6.66 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	24.02	24.09	24.22	24.28	24.52	23.71	23.78	23.91	23.97	24.21
3H	24.00	24.06	24.20	24.26	24.50	23.70	23.76	23.90	23.96	24.20
4H	23.97	24.04	24.19	24.24	24.49	23.67	23.74	23.89	23.94	24.19
6H	23.95	24.01	24.17	24.21	24.47	23.65	23.71	23.87	23.91	24.17
8H	23.93	24.00	24.15	24.20	24.45	23.63	23.70	23.85	23.90	24.15
12H	23.92	23.98	24.14	24.19	24.44	23.62	23.68	23.84	23.89	24.14
4H 2H	24.65	24.72	24.87	24.92	25.16	24.25	24.31	24.46	24.51	24.76
3H	24.66	24.72	24.88	24.92	25.18	24.26	24.32	24.48	24.53	24.78
4H	24.64	24.70	24.87	24.91	25.17	24.25	24.31	24.48	24.52	24.78
6H	24.62	24.67	24.85	24.89	25.15	24.22	24.28	24.46	24.50	24.76
8H	24.60	24.65	24.84	24.88	25.14	24.21	24.26	24.45	24.48	24.75
12H	24.58	24.63	24.83	24.86	25.13	24.19	24.24	24.44	24.47	24.74
8H 4H	24.77	24.83	24.99	25.04	25.29	24.36	24.42	24.58	24.62	24.88
6H	24.78	24.83	25.04	25.07	25.34	24.38	24.43	24.64	24.67	24.94
8H	24.76	24.81	25.03	25.05	25.33	24.37	24.41	24.63	24.65	24.93
12H	24.74	24.78	25.01	25.04	25.32	24.35	24.39	24.62	24.64	24.92
12H 4H	24.83	24.88	25.08	25.11	25.38	24.42	24.47	24.67	24.70	24.97
6H	24.81	24.86	25.08	25.10	25.38	24.40	24.45	24.66	24.69	24.97

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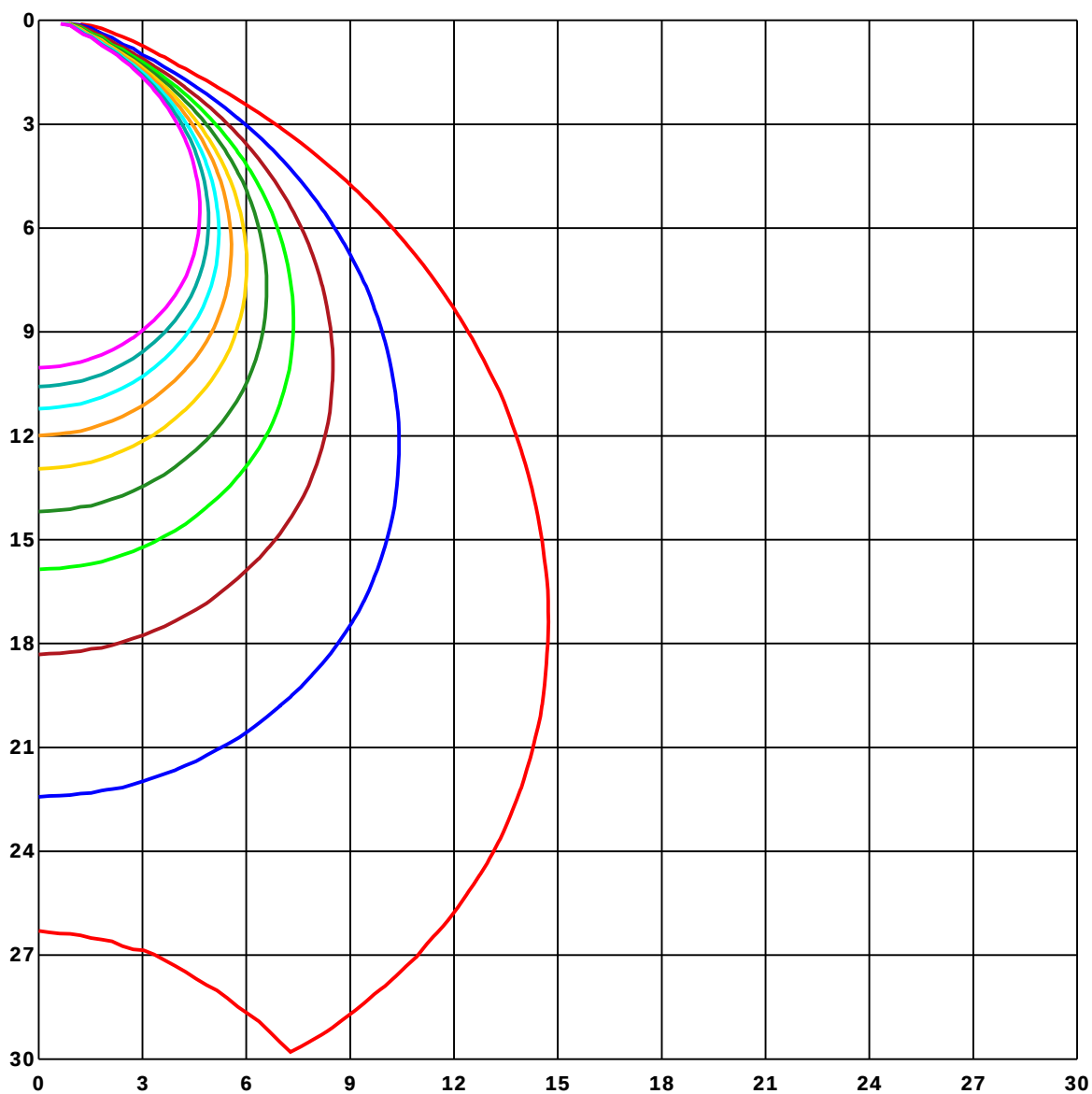
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
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Test Speed: High
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Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 1.273
Test Distance: 6.66 m
Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

13.636
12.273
10.909
9.545
8.182

6.818
5.455
4.091
2.727
1.364

C Range: 0 - 360 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1372.04	1357.86	1361.98	1362.83	1372.04	1357.86	1361.98	1362.83	1372.04	
G1	1368.59	1355.55	1360.46	1362.15	1374.24	1357.58	1363.79	1362.21	1368.59	
G2	1369.55	1349.85	1357.47	1358.99	1370.79	1358.71	1361.42	1367.8	1369.55	
G3	1365.99	1349.62	1357.86	1356.39	1369.95	1359.56	1362.38	1365.09	1365.99	
G4	1367.01	1341.26	1354.14	1354.36	1367.58	1360.97	1359.95	1364.92	1367.01	
G5	1360.69	1342.84	1349.62	1348.55	1365.71	1361.82	1361.19	1363.0	1360.69	
G6	1364.75	1334.6	1344.59	1345.33	1366.39	1358.09	1358.99	1360.74	1364.75	
G7	1358.43	1331.44	1342.11	1339.96	1361.7	1357.81	1361.98	1360.12	1358.43	
G8	1353.4	1322.06	1334.43	1337.93	1358.48	1356.17	1354.7	1357.98	1353.4	
G9	1347.3	1318.23	1331.1	1332.4	1353.74	1356.17	1352.89	1356.45	1347.3	
G10	1345.33	1313.65	1325.45	1324.66	1353.52	1350.58	1349.85	1352.5	1345.33	
G11	1337.37	1306.82	1317.32	1318.34	1344.88	1346.57	1347.25	1349.96	1337.37	
G12	1334.43	1297.9	1313.48	1312.41	1340.47	1344.03	1343.3	1345.05	1334.43	
G13	1325.34	1288.02	1308.29	1302.02	1334.03	1340.47	1342.22	1340.36	1325.34	
G14	1318.68	1283.33	1296.94	1296.71	1329.74	1334.15	1331.38	1336.41	1318.68	
G15	1313.37	1274.52	1289.88	1288.41	1320.37	1333.19	1328.5	1333.98	1313.37	
G16	1307.55	1262.55	1278.76	1280.62	1314.39	1324.1	1322.12	1328.95	1307.55	
G17	1296.71	1252.67	1272.38	1270.23	1306.82	1323.93	1313.76	1316.7	1296.71	
G18	1288.13	1241.72	1260.86	1260.46	1299.53	1315.85	1307.72	1309.81	1288.13	
G19	1276.72	1231.66	1253.57	1247.25	1289.15	1306.08	1299.93	1304.45	1276.72	
G20	1269.89	1220.54	1239.91	1239.96	1282.99	1298.63	1288.81	1295.58	1269.89	
G21	1258.09	1209.87	1234.04	1226.07	1269.67	1293.72	1284.01	1286.27	1258.09	
G22	1251.09	1197.9	1217.1	1215.85	1263.12	1284.35	1274.92	1281.92	1251.09	
G23	1235.62	1185.42	1208.74	1203.71	1249.9	1272.55	1264.53	1269.5	1235.62	
G24	1227.49	1172.72	1194.57	1190.45	1239.57	1266.9	1252.44	1258.65	1227.49	
G25	1215.46	1161.42	1183.67	1177.06	1226.19	1255.38	1243.86	1249.28	1215.46	
G26	1201.29	1144.77	1168.88	1164.47	1216.08	1245.05	1231.83	1238.55	1201.29	
G27	1188.13	1128.45	1155.38	1148.77	1203.71	1234.21	1220.77	1228.16	1188.13	
G28	1175.14	1108.97	1138.1	1132.23	1192.03	1222.01	1210.26	1216.7	1175.14	
G29	1159.28	1095.02	1120.94	1112.19	1177.18	1212.75	1194.4	1202.64	1159.28	
G30	1144.82	1073.96	1103.09	1094.06	1162.1	1197.84	1182.94	1192.42	1144.82	
G31	1124.27	1053.18	1085.08	1074.24	1144.88	1186.66	1167.63	1177.46	1124.27	
G32	1107.95	1033.25	1064.25	1053.18	1129.35	1172.32	1154.59	1161.08	1107.95	
G33	1087.4	1011.17	1047.14	1034.32	1108.8	1159.95	1136.63	1146.01	1087.4	
G34	1068.26	990.5	1022.24	1012.41	1090.79	1140.02	1117.1	1129.52	1068.26	
G35	1047.19	968.99	1002.64	990.45	1069.84	1125.85	1099.93	1111.17	1047.19	
G36	1028.45	943.36	978.59	966.79	1050.53	1105.01	1079.15	1094.62	1028.45	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.66

Operators: QC01

Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 1.273

Test Distance: 6.66 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1004.0	920.6	956.34	942.0	1027.26	1087.74	1061.31	1071.53	1004.0	
G38	980.17	896.6	932.29	918.74	1005.98	1067.24	1039.68	1052.73	980.17	
G39	956.85	871.93	908.91	893.67	981.02	1045.95	1017.21	1031.44	956.85	
G40	934.66	844.26	885.25	869.22	960.69	1025.62	992.54	1008.8	934.66	
G41	909.14	819.75	859.62	842.11	935.51	1004.34	973.11	984.8	909.14	
G42	886.55	793.22	832.46	817.67	910.04	980.06	949.91	963.8	886.55	
G43	856.91	766.68	805.92	788.47	884.97	956.57	924.78	938.61	856.91	
G44	832.4	740.25	780.45	763.06	858.04	931.33	898.18	915.69	832.4	
G45	803.94	712.02	753.75	733.7	833.53	907.05	872.66	890.33	803.94	
G46	777.8	684.24	725.29	708.12	805.41	883.9	846.57	864.59	777.8	
G47	751.49	657.7	698.19	680.06	779.55	858.6	825.23	837.77	751.49	
G48	723.14	627.44	670.01	652.17	751.38	831.05	794.35	813.49	723.14	
G49	694.18	599.03	640.59	621.73	722.64	804.96	768.94	784.13	694.18	
G50	666.9	569.62	612.13	592.43	695.7	778.31	739.29	758.32	666.9	
G51	641.21	539.8	583.68	561.32	666.79	752.17	712.41	730.77	641.21	
G52	607.45	510.16	554.03	532.29	639.41	723.76	681.92	702.99	607.45	
G53	577.69	481.93	524.22	503.21	609.71	696.21	654.09	673.51	577.69	
G54	548.27	450.7	493.73	473.96	579.44	667.19	625.29	646.58	548.27	
G55	517.05	420.27	465.27	443.36	550.36	638.11	597.0	616.59	517.05	
G56	487.35	391.36	434.83	413.1	520.32	607.39	565.21	587.68	487.35	
G57	456.52	361.54	405.13	384.07	489.38	579.89	536.75	558.15	456.52	
G58	427.1	332.46	375.6	354.54	460.02	549.23	506.38	527.72	427.1	
G59	396.72	304.23	344.77	325.24	428.57	518.29	477.13	497.12	396.72	
G60	366.63	274.7	315.19	296.61	398.81	487.74	447.6	466.96	366.63	
G61	337.49	247.37	287.52	268.32	368.38	458.15	417.1	436.13	337.49	
G62	308.97	219.37	259.57	239.58	338.9	428.17	386.27	407.22	308.97	
G63	278.09	193.5	232.24	212.93	310.16	398.47	356.46	376.68	278.09	
G64	250.87	168.94	205.93	187.75	281.48	368.26	327.5	347.82	250.87	
G65	223.32	145.85	180.29	163.75	251.61	338.11	297.23	317.33	223.32	
G66	197.06	124.96	156.29	141.05	224.28	308.75	268.77	288.99	197.06	
G67	172.33	106.15	135.01	120.21	198.08	279.1	240.54	259.74	172.33	
G68	148.33	89.04	115.92	101.86	173.01	250.65	212.93	232.13	148.33	
G69	127.33	75.89	98.53	86.22	149.8	223.66	187.86	205.59	127.33	
G70	108.36	67.08	84.81	73.86	128.8	196.5	163.07	180.12	108.36	
G71	91.3	62.73	76.4	65.95	109.82	172.61	140.71	155.9	91.3	
G72	77.92	57.59	71.31	62.05	94.35	148.22	119.99	134.56	77.92	
G73	68.44	53.75	66.06	56.8	81.31	127.27	101.52	114.34	68.44	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.66

Operators: QC01

Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 1.273

Test Distance: 6.66 m

Remarks:

Report No.:

Test Time: 2023/7/18 9:40:11

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.66
Operators: QC01
Test Date: 2023/7/18 9:40:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 1.273
Test Distance: 6.66 m
Remarks: