

Report No.: IBDL240CT215-32W

Test Time: 2023/7/29 14:55:08

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL240CT215-32W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

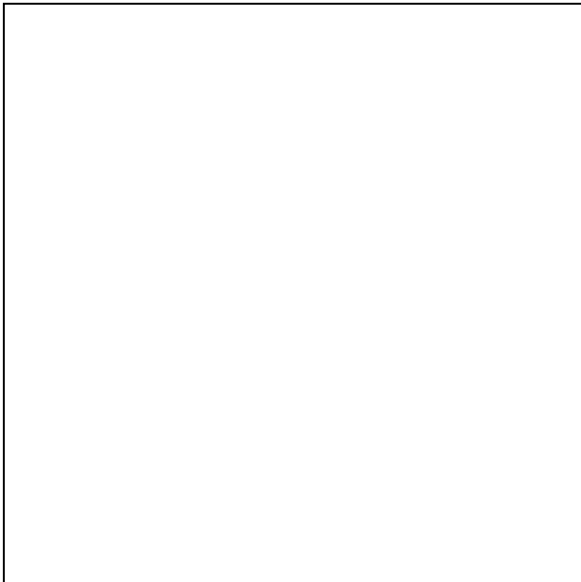
Voltage(V): 219.70 V
Current(A): 0.1490 A
Power(W): 31.72 W
Power Factor: 0.9640
Lamp Luminous Flux: 3769.79

Photometric Results

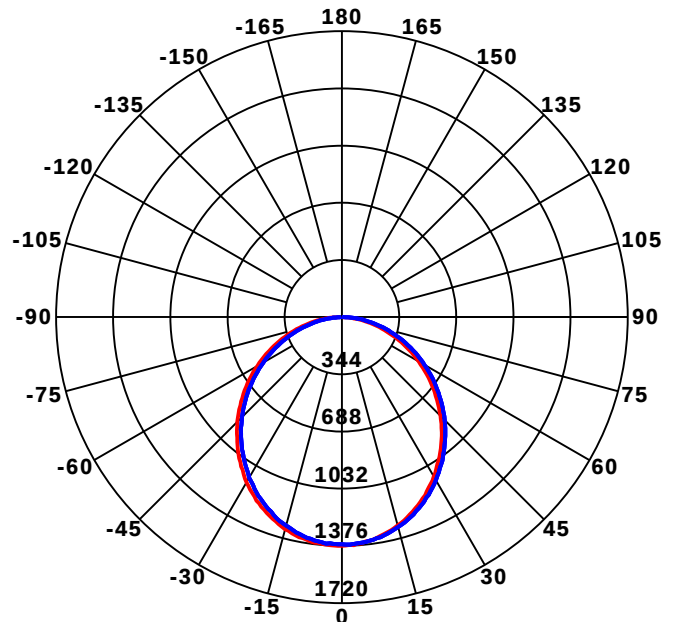
CIE Class: Direct
Luminaire Luminous Flux: 3769.787 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 118.85 lm/W
Beam Angle(50%) C0-180,C90-270: 107.7,107.9
Field Angle(10%) C0-180,C90-270: 162.9,163.2
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1375.82 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1375.82 cd
Effective Luminous Flux: 3706.26 lm
ERP(ϕ use)(120deg): 2955.84 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



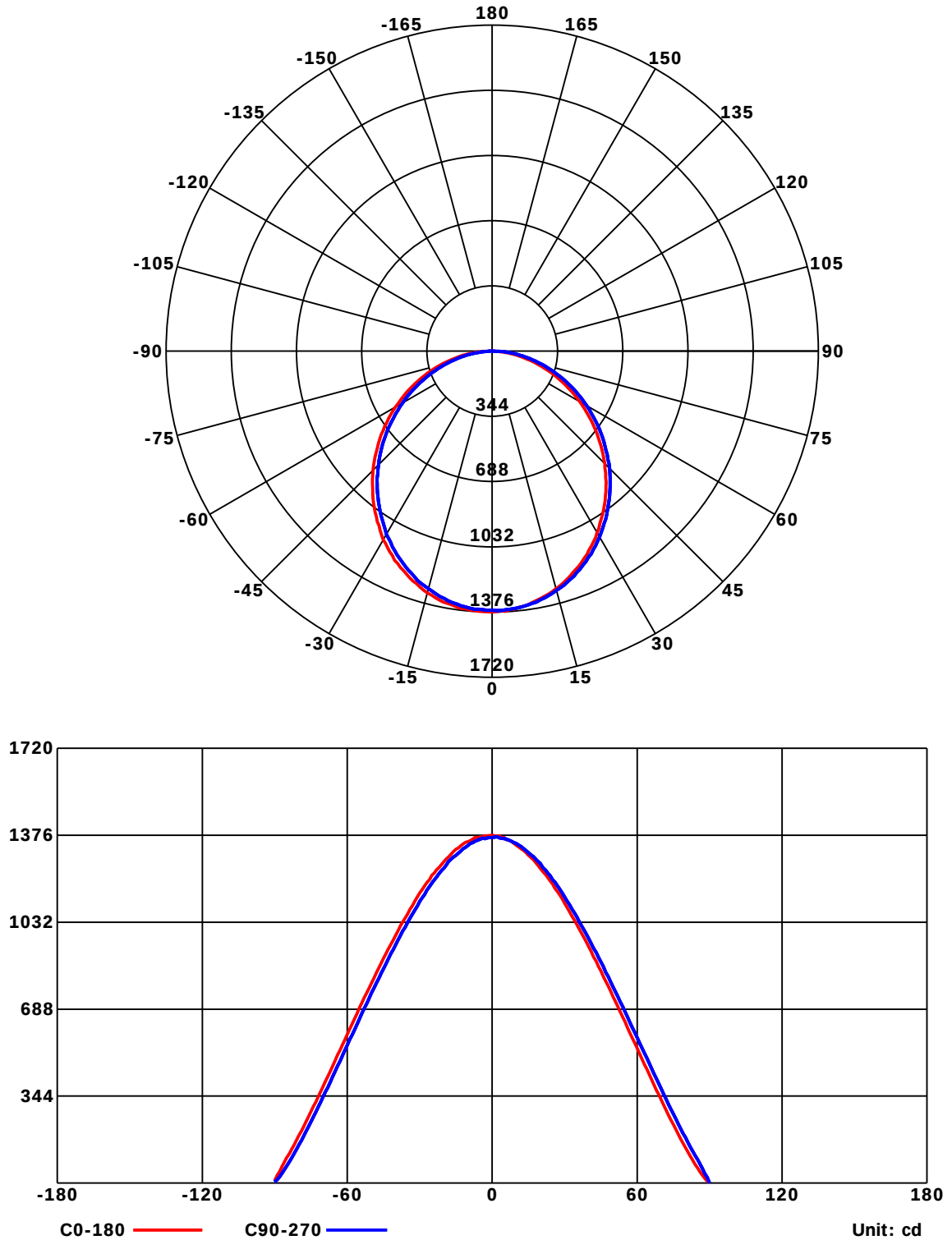
Beam Angle(50%) C0-180,C90-270: 107.7 deg,107.9 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 60
Test Distance: 6.66 m
Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

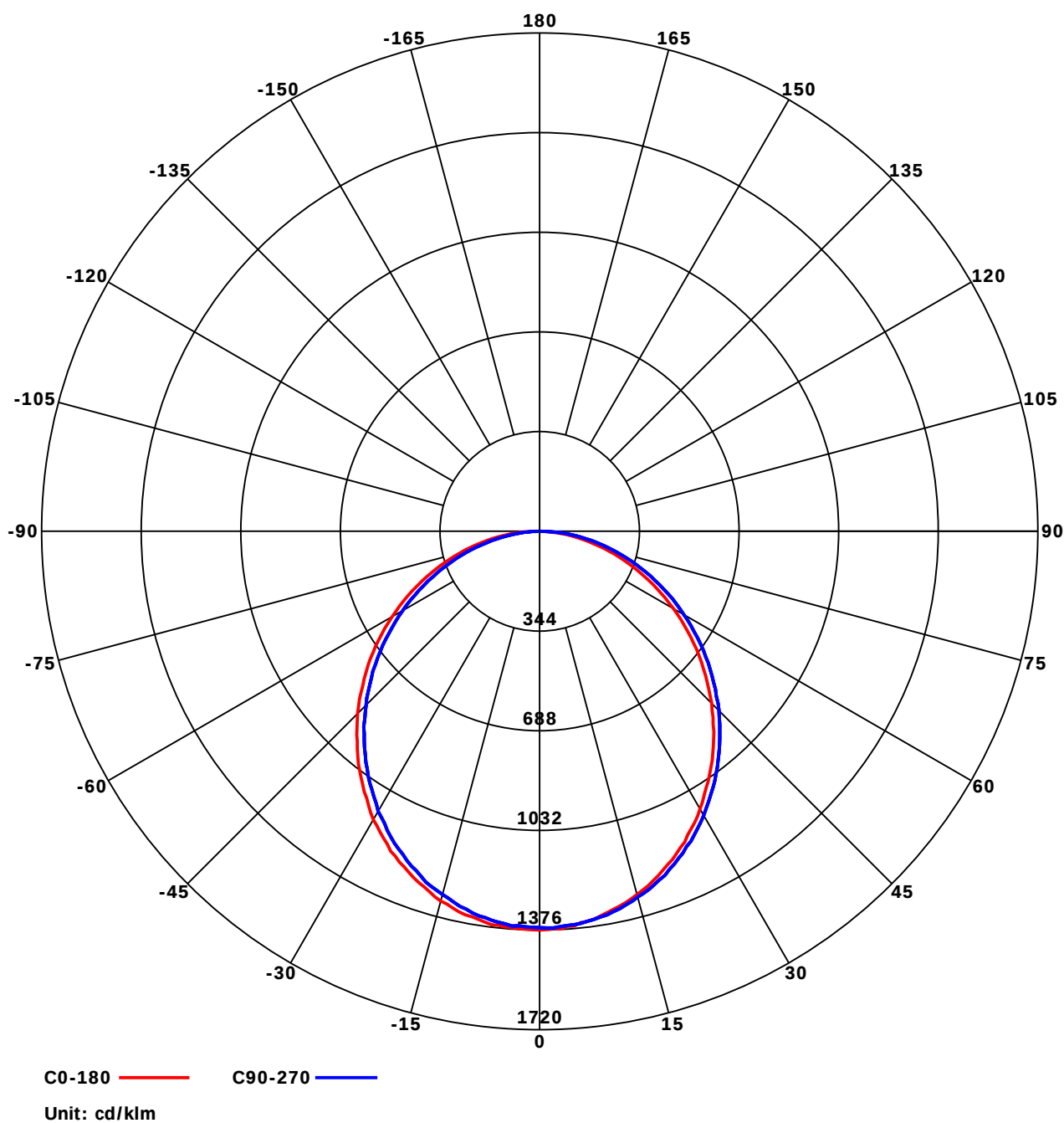
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

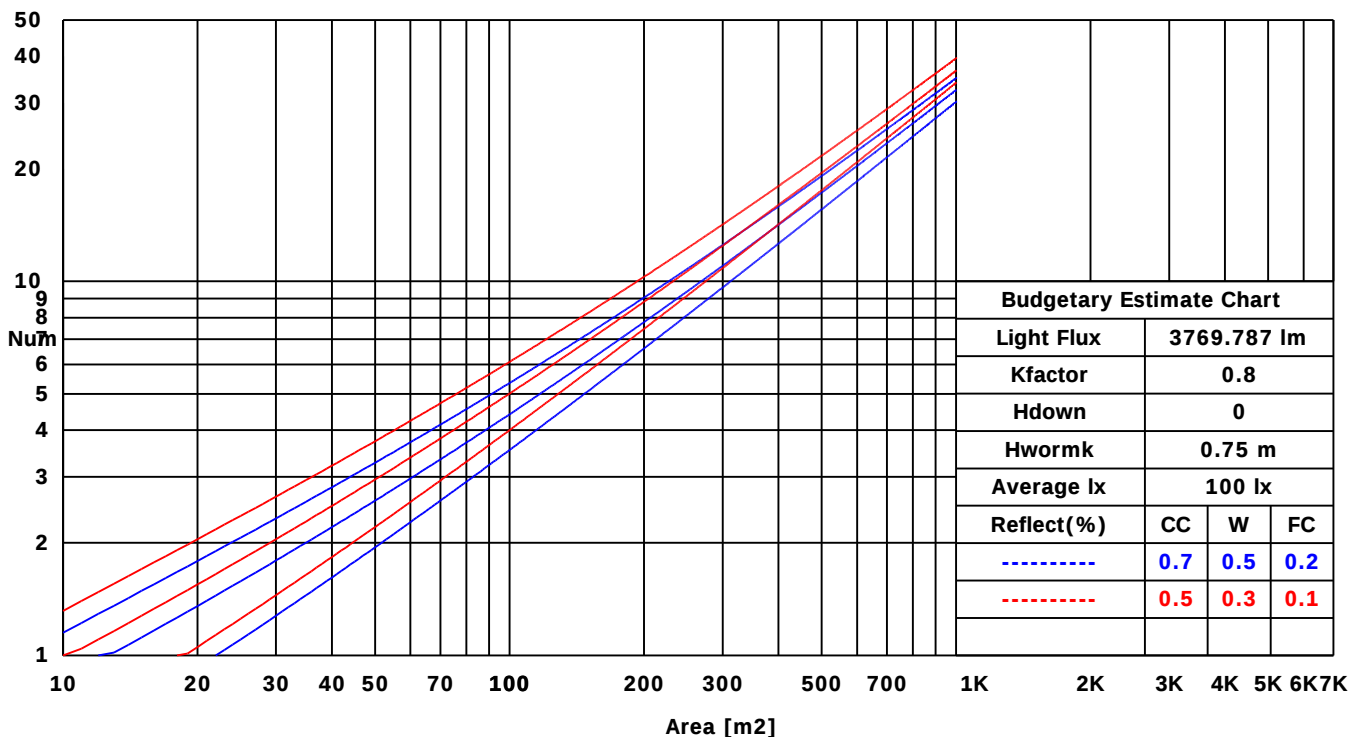
Test Distance: 6.66 m

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	1.07	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.81
2	0.95	0.92	0.91	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.76	0.71
3	0.84	0.82	0.80	0.84	0.81	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.62
4	0.75	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.60	0.56
5	0.68	0.66	0.64	0.68	0.65	0.63	0.67	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
6	0.62	0.59	0.58	0.62	0.59	0.57	0.62	0.57	0.54	0.61	0.56	0.52	0.59	0.53	0.49	0.45
7	0.57	0.54	0.53	0.57	0.54	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.55	0.49	0.45	0.41
8	0.52	0.50	0.49	0.53	0.50	0.48	0.53	0.48	0.46	0.52	0.47	0.43	0.52	0.46	0.41	0.38
9	0.48	0.46	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.49	0.43	0.38	0.35
10	0.45	0.43	0.42	0.46	0.43	0.41	0.46	0.42	0.39	0.46	0.41	0.37	0.46	0.40	0.36	0.33

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

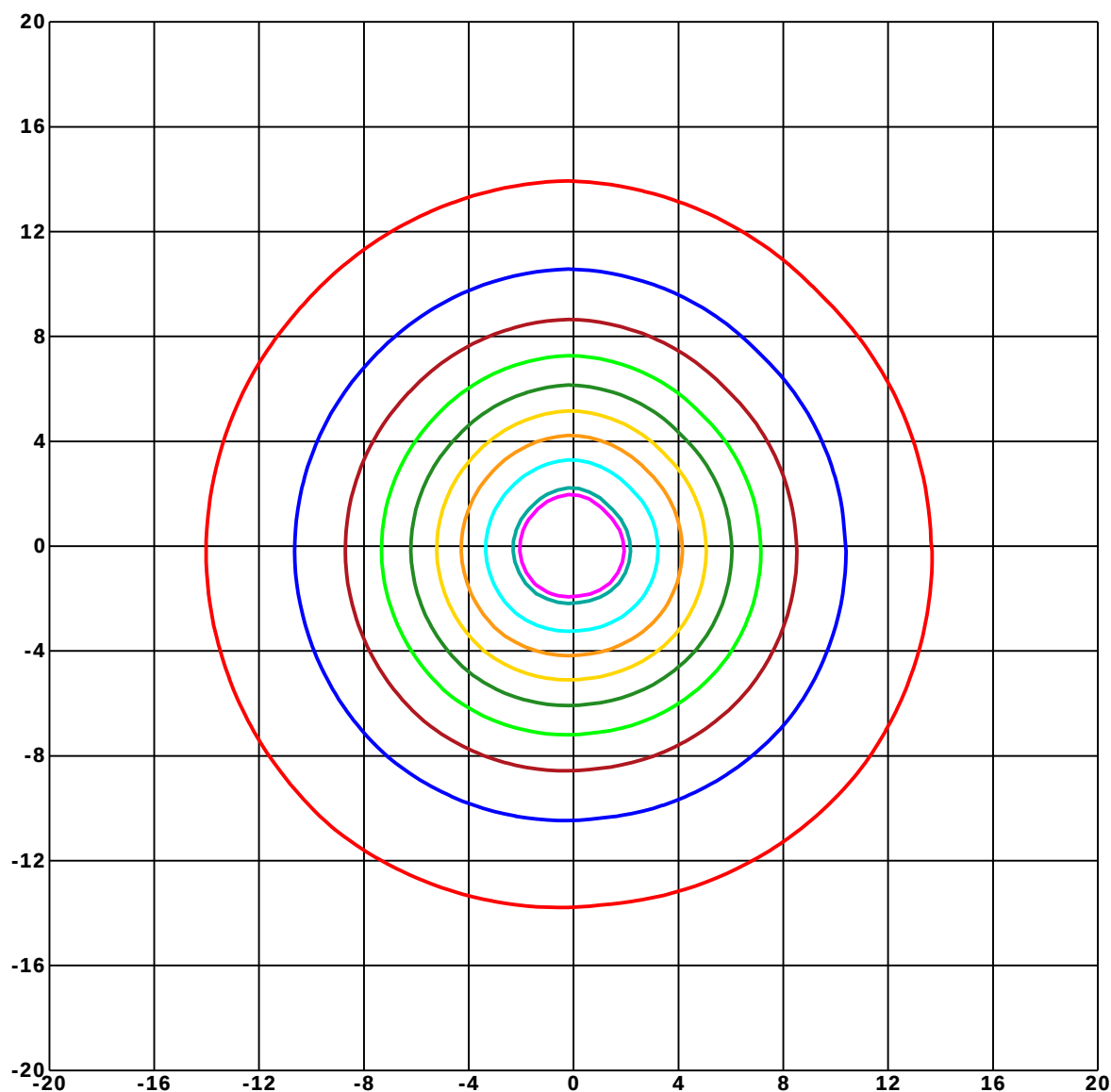
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

ISOLX DIAGRAM



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

12.658(1%Emax)	6.879(1%Emax)
12.382(1%Emax)	5.503(0%Emax)
11.007(1%Emax)	4.127(0%Emax)
9.631(1%Emax)	2.752(0%Emax)
8.255(1%Emax)	1.376(0%Emax)

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Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

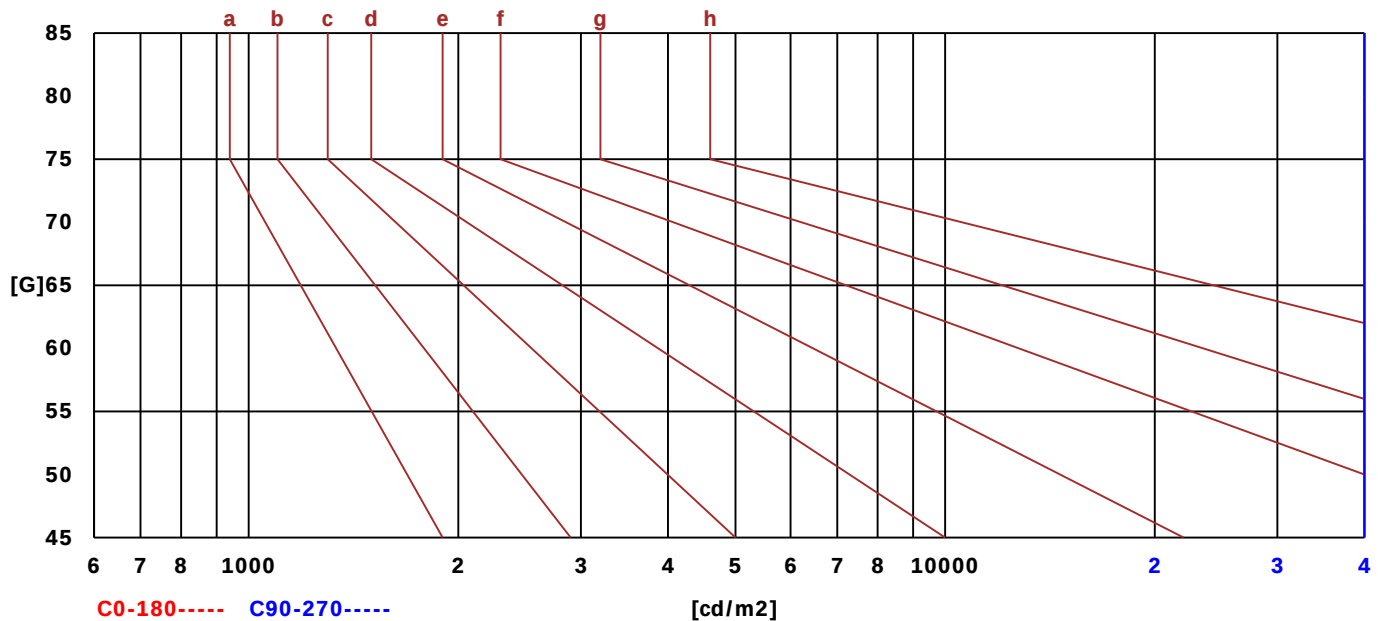
Humidity: 60

Test Distance: 6.66 m

Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	179628	173041	166287	158904	150249	139637	127113	110395	80155
C90	190243	185785	180328	175468	169075	162737	155417	148271	144248
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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Test Date: 2023/7/29 14:55:08

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G Interval: 1.0 Deg

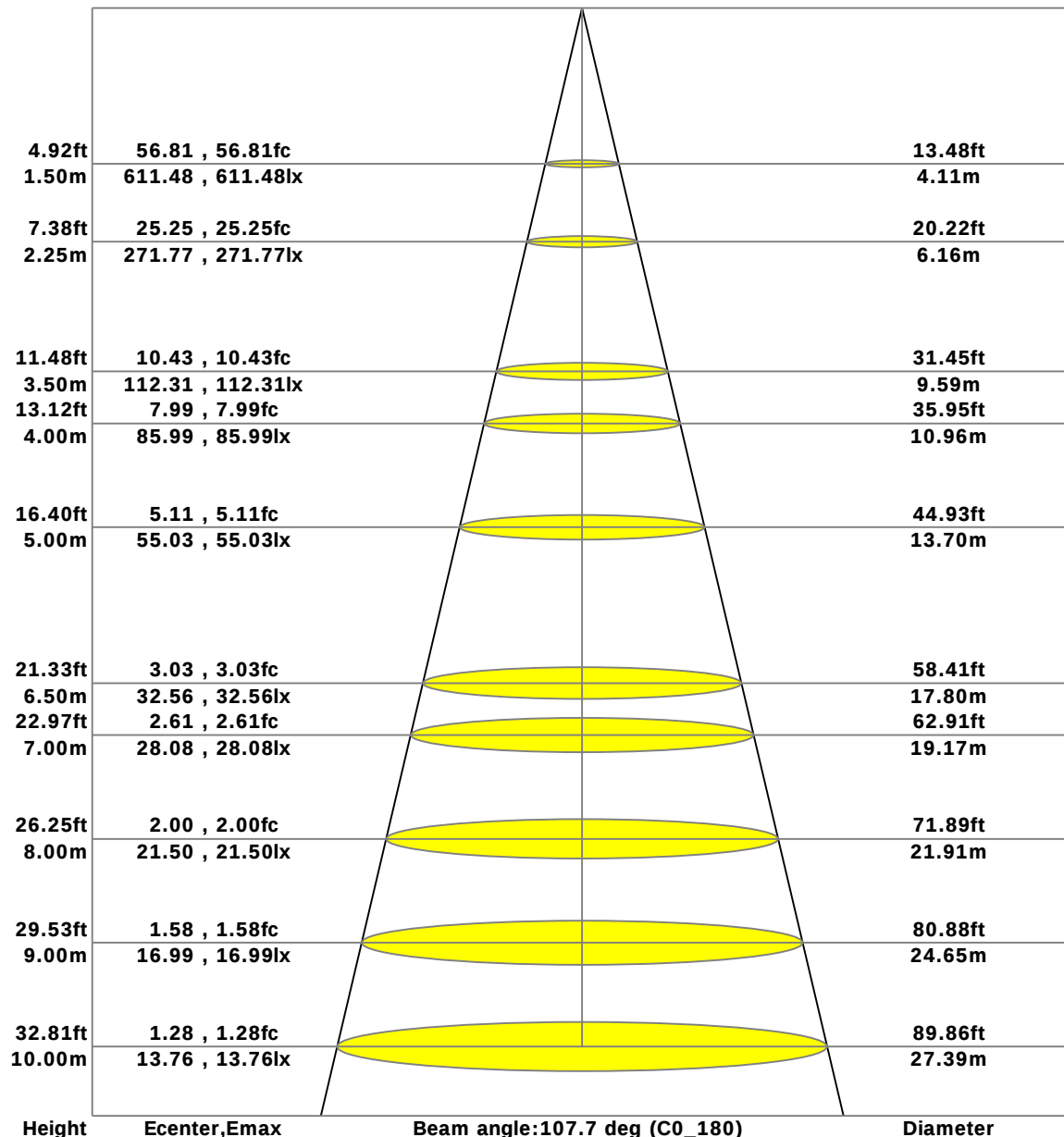
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

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	25.26	25.34	25.46	25.53	25.77	25.44	25.52	25.64	25.70	25.95
3H	25.40	25.47	25.61	25.67	25.91	25.55	25.63	25.76	25.82	26.07
4H	25.41	25.49	25.63	25.69	25.94	25.56	25.63	25.77	25.83	26.08
6H	25.40	25.47	25.62	25.67	25.93	25.54	25.61	25.76	25.81	26.07
8H	25.39	25.46	25.61	25.66	25.91	25.52	25.60	25.74	25.80	26.05
12H	25.37	25.44	25.59	25.64	25.90	25.51	25.58	25.73	25.78	26.04
4H 2H	27.72	27.79	27.93	27.99	28.24	28.12	28.19	28.33	28.39	28.64
3H	27.98	28.05	28.21	28.26	28.51	28.35	28.42	28.58	28.63	28.88
4H	28.05	28.11	28.28	28.33	28.58	28.40	28.47	28.63	28.68	28.94
6H	28.06	28.12	28.30	28.35	28.61	28.41	28.47	28.64	28.69	28.95
8H	28.06	28.11	28.30	28.34	28.61	28.39	28.45	28.64	28.68	28.94
12H	28.04	28.09	28.29	28.33	28.60	28.38	28.43	28.62	28.66	28.93
8H 4H	28.37	28.44	28.59	28.64	28.89	28.95	29.02	29.17	29.23	29.48
6H	28.94	28.99	29.19	29.23	29.50	29.49	29.54	29.74	29.78	30.05
8H	28.95	29.00	29.21	29.24	29.52	29.49	29.54	29.75	29.78	30.06
12H	28.94	28.99	29.21	29.24	29.52	29.48	29.52	29.75	29.77	30.05
12H 4H	29.02	29.07	29.27	29.30	29.57	29.68	29.73	29.93	29.97	30.24
6H	29.11	29.16	29.37	29.40	29.68	29.77	29.82	30.03	30.06	30.34

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

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Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

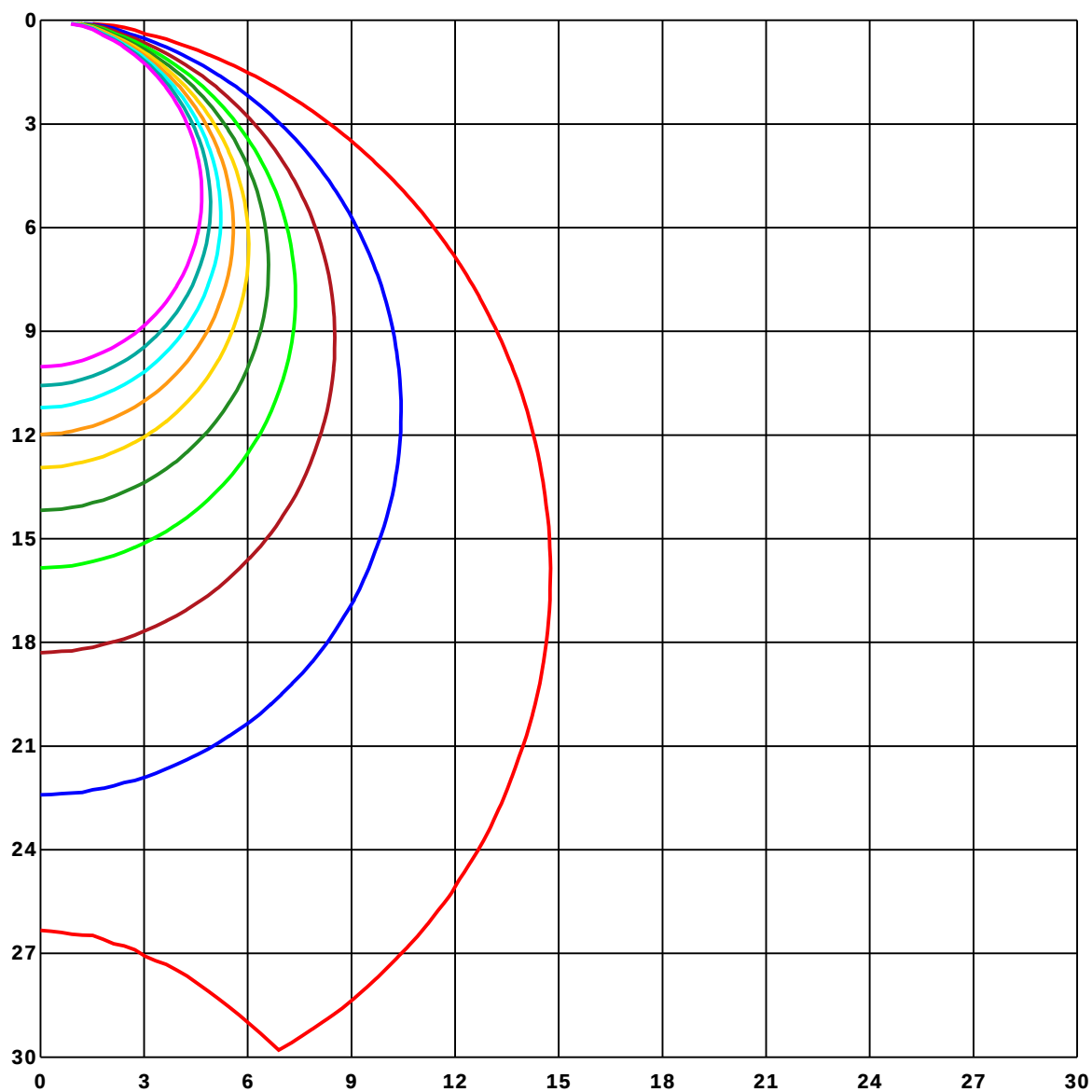
Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx

13.696
12.326
10.956
9.587
8.217

6.848
5.478
4.109
2.739
1.37

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1375.82	1365.13	1367.04	1372.41	1375.82	1365.13	1367.04	1372.41	1375.82	
G1	1373.87	1363.45	1368.15	1370.1	1375.16	1367.26	1366.33	1371.08	1373.87	
G2	1371.52	1359.06	1369.48	1372.05	1374.0	1367.84	1365.22	1371.39	1371.52	
G3	1374.05	1360.03	1365.35	1370.46	1373.43	1367.0	1362.52	1368.99	1374.05	
G4	1366.2	1354.58	1363.67	1366.24	1371.03	1364.02	1364.91	1367.13	1366.2	
G5	1366.64	1350.54	1362.43	1362.69	1369.97	1366.6	1360.08	1365.35	1366.64	
G6	1356.97	1346.02	1360.34	1361.5	1366.42	1359.85	1356.57	1363.18	1356.97	
G7	1356.17	1339.72	1355.82	1357.55	1367.35	1359.32	1352.54	1359.54	1356.17	
G8	1350.98	1333.86	1351.91	1353.07	1361.63	1355.46	1346.64	1353.16	1350.98	
G9	1343.49	1328.54	1347.12	1347.08	1355.33	1351.78	1343.35	1348.23	1343.49	
G10	1336.26	1319.67	1343.8	1341.49	1350.45	1347.52	1336.83	1343.62	1336.26	
G11	1329.43	1315.06	1336.17	1334.44	1347.88	1346.68	1328.41	1337.41	1329.43	
G12	1322.11	1304.37	1330.67	1330.54	1341.8	1338.43	1323.35	1329.83	1322.11	
G13	1315.19	1298.55	1322.91	1319.4	1334.31	1333.51	1313.95	1323.62	1315.19	
G14	1306.76	1288.26	1315.59	1314.3	1325.52	1325.04	1304.99	1317.23	1306.76	
G15	1296.74	1278.86	1306.81	1306.05	1320.6	1320.95	1297.27	1307.91	1296.74	
G16	1288.26	1266.97	1299.35	1298.2	1311.55	1312.62	1289.33	1300.37	1288.26	
G17	1279.57	1260.9	1291.33	1286.93	1300.82	1305.43	1280.86	1287.2	1279.57	
G18	1267.95	1246.39	1281.34	1278.02	1290.3	1294.87	1272.61	1281.92	1267.95	
G19	1256.55	1234.73	1271.45	1268.48	1282.5	1285.65	1258.86	1267.99	1256.55	
G20	1243.95	1220.84	1263.11	1258.59	1272.43	1275.8	1245.82	1259.92	1243.95	
G21	1232.24	1211.26	1248.43	1244.57	1260.72	1268.26	1237.03	1247.15	1232.24	
G22	1221.42	1198.4	1238.81	1235.53	1248.52	1254.73	1224.17	1236.9	1221.42	
G23	1208.65	1185.36	1225.9	1221.33	1239.47	1245.28	1210.82	1221.95	1208.65	
G24	1194.63	1171.74	1215.34	1208.91	1226.3	1232.69	1198.98	1211.97	1194.63	
G25	1183.27	1158.39	1199.86	1194.81	1217.74	1222.4	1187.13	1198.98	1183.27	
G26	1165.62	1143.44	1190.5	1181.68	1200.13	1206.43	1172.63	1184.92	1165.62	
G27	1151.87	1129.43	1175.02	1169.35	1188.55	1196.23	1158.44	1171.21	1151.87	
G28	1138.39	1112.08	1161.32	1155.2	1174.98	1181.23	1141.05	1157.95	1138.39	
G29	1123.97	1096.69	1146.73	1139.01	1160.52	1167.4	1128.05	1140.78	1123.97	
G30	1106.18	1079.75	1131.51	1123.75	1148.59	1152.4	1115.32	1128.01	1106.18	
G31	1090.57	1065.07	1115.77	1105.87	1132.98	1140.92	1095.98	1110.35	1090.57	
G32	1072.34	1047.81	1100.55	1092.57	1114.57	1124.37	1079.62	1097.93	1072.34	
G33	1055.22	1030.82	1083.61	1075.54	1096.87	1108.31	1063.6	1078.99	1055.22	
G34	1040.01	1012.33	1068.97	1059.79	1083.92	1091.77	1047.99	1064.09	1040.01	
G35	1023.06	999.15	1053.18	1041.43	1065.24	1076.38	1031.8	1045.82	1023.06	
G36	1006.21	978.8	1034.82	1027.45	1049.85	1060.68	1012.73	1030.16	1006.21	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	989.44	960.48	1018.27	1006.87	1032.42	1045.82	996.94	1011.13	989.44	
G38	970.32	942.87	1000.31	993.52	1016.76	1026.83	978.22	996.8	970.32	
G39	952.8	926.9	983.41	973.74	997.87	1009.76	960.88	977.15	952.8	
G40	933.73	905.21	965.93	955.29	979.55	992.41	942.6	962.12	933.73	
G41	916.16	887.78	947.04	936.17	960.65	975.34	923.97	941.58	916.16	
G42	894.25	868.22	928.81	917.5	944.02	955.24	907.56	923.22	894.25	
G43	878.15	849.9	911.86	899.62	925.44	939.05	885.83	904.5	878.15	
G44	855.8	830.47	892.43	882.01	906.67	919.36	866.84	886.36	855.8	
G45	839.83	812.91	874.6	860.94	889.46	902.9	847.99	867.06	839.83	
G46	817.47	791.66	856.6	843.78	869.59	881.88	830.29	848.92	817.47	
G47	798.45	771.74	833.8	822.35	851.05	862.05	809.58	827.63	798.45	
G48	778.57	754.27	816.23	803.55	830.47	843.51	789.49	809.22	778.57	
G49	759.23	732.31	795.21	783.94	809.18	826.21	769.66	788.64	759.23	
G50	737.77	711.86	776.36	764.29	790.77	805.1	751.74	770.15	737.77	
G51	718.56	693.81	757.24	743.8	771.17	786.78	729.83	750.32	718.56	
G52	698.73	671.63	738.3	724.99	751.78	766.55	709.6	729.83	698.73	
G53	678.64	653.05	717.41	703.75	732.75	748.55	689.15	710.53	678.64	
G54	656.86	630.2	698.29	683.39	711.02	727.34	669.5	689.33	656.86	
G55	637.48	610.42	677.53	661.96	692.26	705.34	647.81	667.77	637.48	
G56	614.81	590.11	657.13	643.73	670.26	685.03	626.74	648.83	614.81	
G57	594.5	569.22	635.88	621.82	649.68	666.89	606.92	628.08	594.5	
G58	574.63	548.9	615.97	603.41	630.25	645.37	586.65	608.69	574.63	
G59	553.82	528.54	595.3	580.44	608.91	624.57	566.47	587.0	553.82	
G60	533.55	508.49	575.03	561.5	587.67	603.5	545.44	565.05	533.55	
G61	511.46	487.69	554.0	539.63	567.18	582.26	525.39	545.22	511.46	
G62	491.55	466.22	534.35	519.27	547.35	563.27	504.86	525.61	491.55	
G63	470.57	447.28	514.66	497.58	526.81	541.85	482.68	504.37	470.57	
G64	450.03	426.52	494.43	479.35	506.41	521.71	462.85	484.67	450.03	
G65	429.81	406.39	472.96	457.31	485.03	501.22	441.96	463.52	429.81	
G66	408.6	385.23	452.74	437.35	463.65	480.55	422.09	443.38	408.6	
G67	388.56	365.49	431.36	416.94	443.11	459.7	400.44	422.44	388.56	
G68	367.0	345.18	413.22	396.63	423.24	439.34	379.91	402.88	367.0	
G69	348.72	325.26	391.13	376.31	402.84	418.5	360.88	381.1	348.72	
G70	327.7	305.65	371.3	356.22	382.12	397.83	341.18	361.54	327.7	
G71	308.05	286.89	351.12	336.04	362.39	377.55	320.56	340.83	308.05	
G72	288.67	267.33	331.6	316.97	341.89	356.84	301.62	320.65	288.67	
G73	268.75	248.44	311.33	296.3	321.8	337.19	282.19	301.44	268.75	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

Report No.: IBDL240CT215-32W

Test Time: 2023/7/29 14:55:08

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: 2023/7/29 14:55:08

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks: