

Report No.:

Test Time: 2025/5/15 16:41:25

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL230D120-30W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 60 mm

Voltage(V): 220.90 V
Current(A): 0.1420 A
Power(W): 29.92 W
Power Factor: 0.9510
Lamp Luminous Flux: 3495.78

Photometric Results

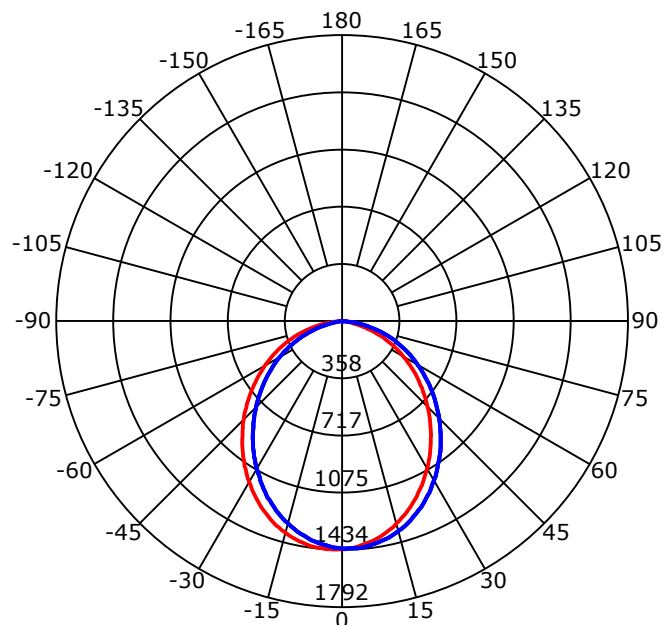
CIE Class: Direct
Luminaire Luminous Flux: 3495.777 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 116.85 lm/W
Beam Angle(50%) C0-180,C90-270: 99.3,99.4
Field Angle(10%) C0-180,C90-270: 154.6,154.5
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1433.98 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1430.87 cd
Effective Luminous Flux: 3427.71 lm
ERP(ϕ use)(120deg): 2865.83 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 99.3 deg,99.4 deg

C0-180 — C90-270 —

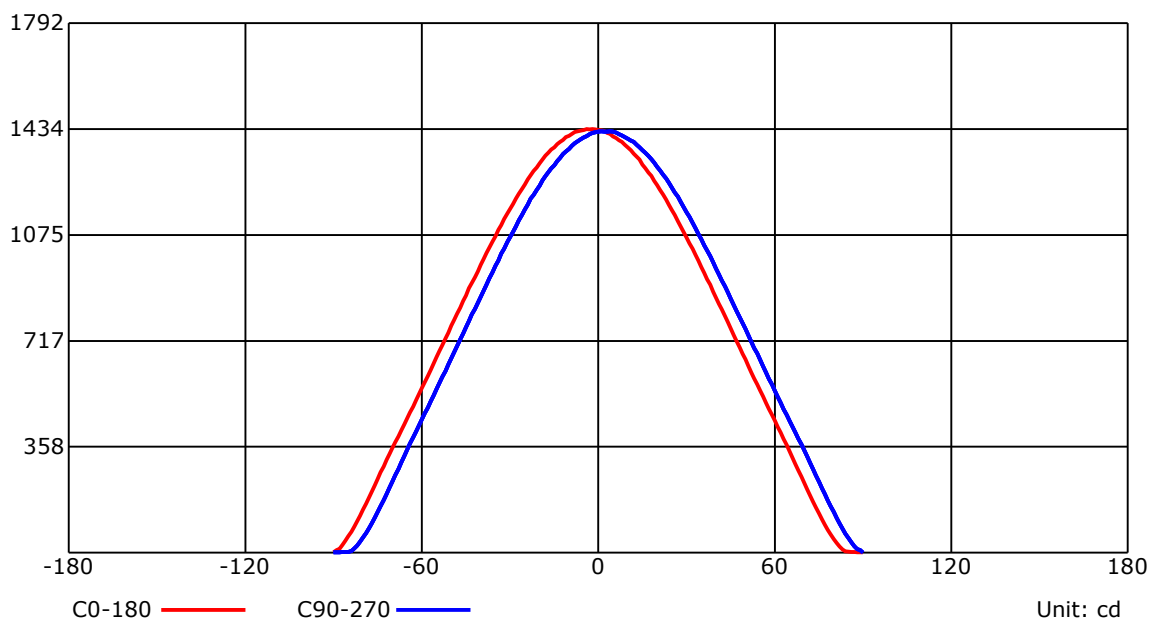
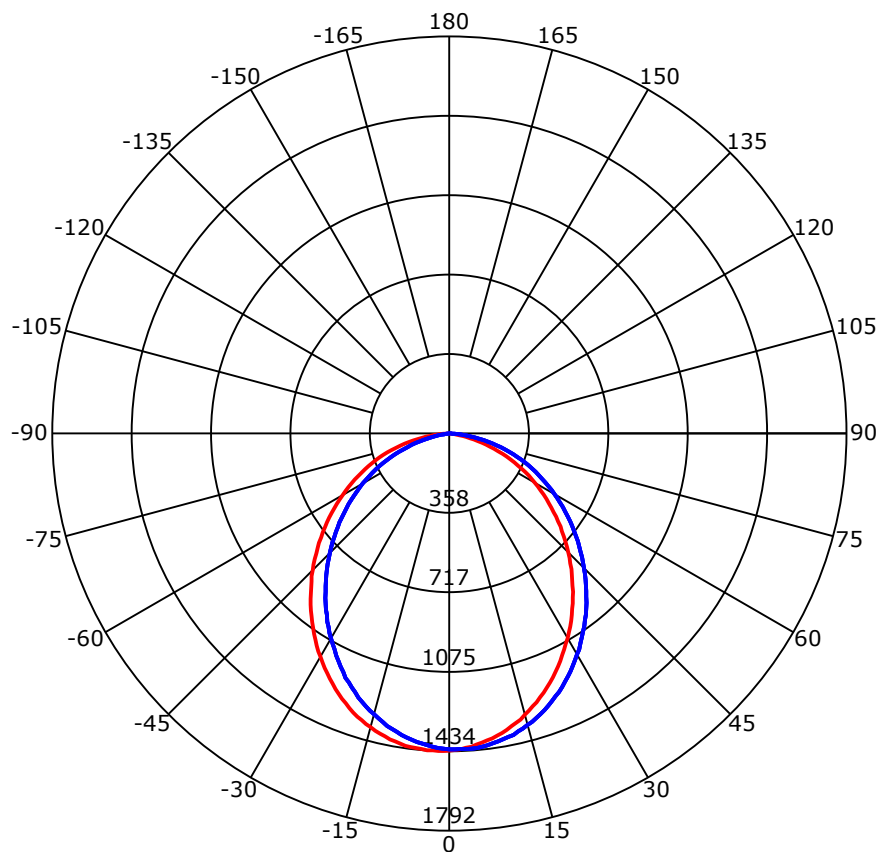
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



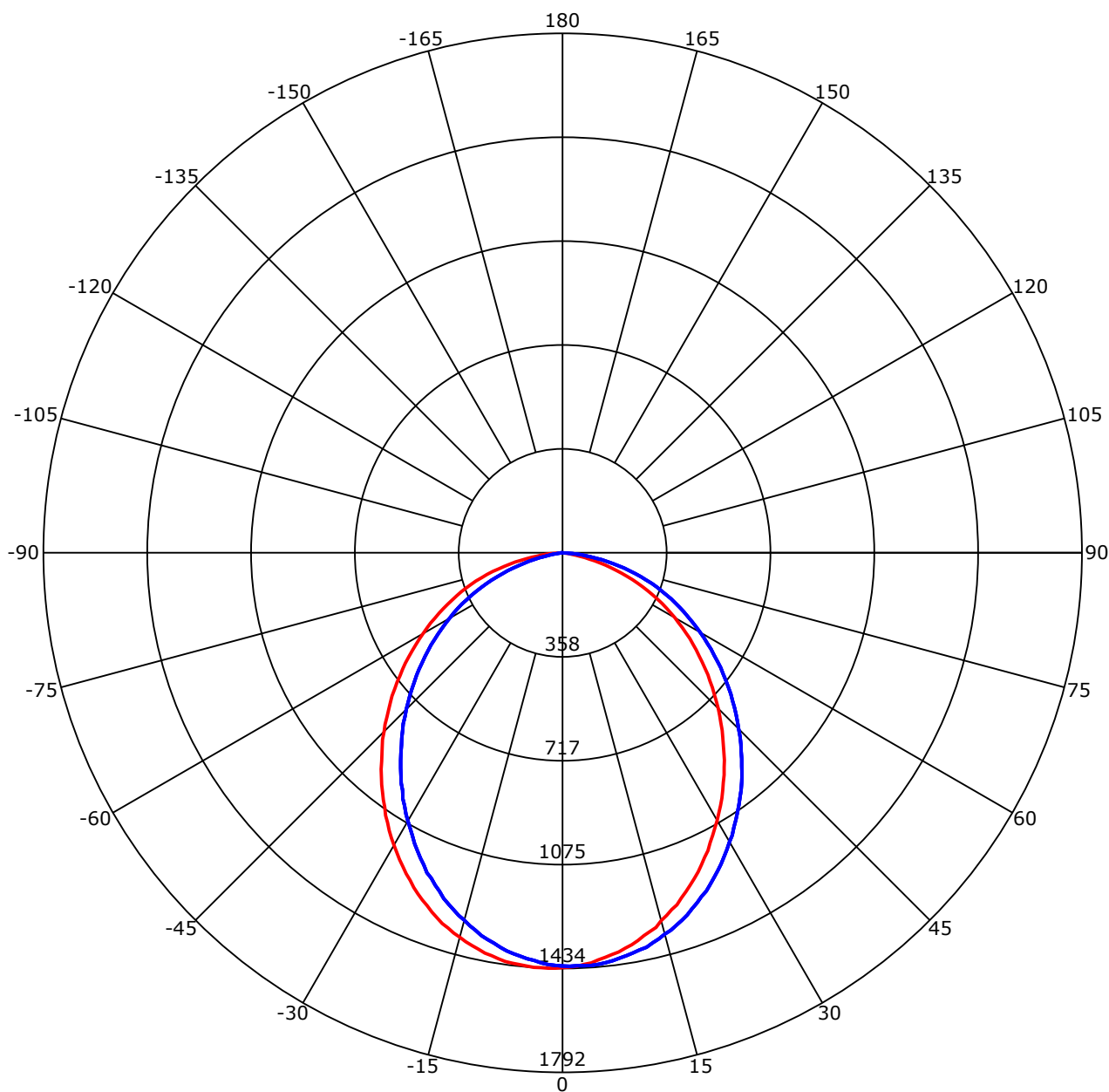
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/15 16:41:25

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

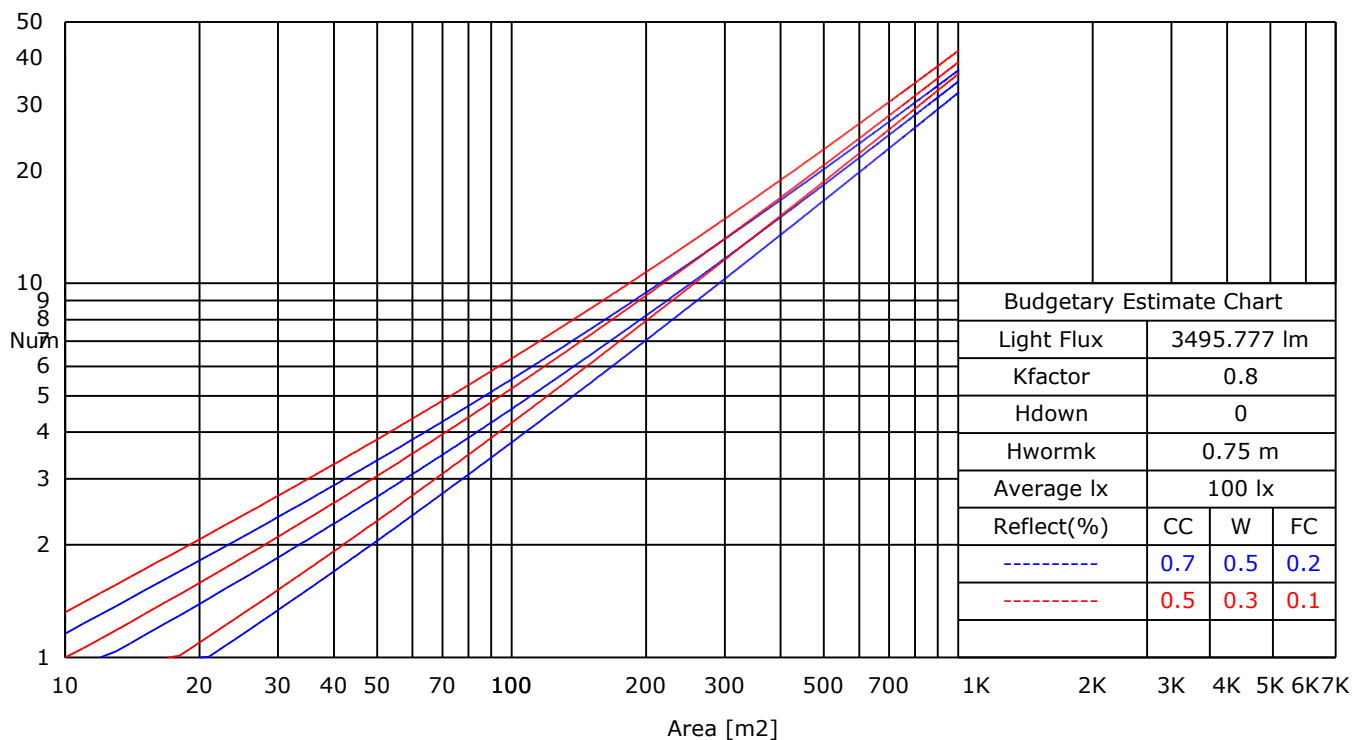
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UTILIZATION FACTORS TABLE

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	1.08	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.82
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.86	0.84	0.82	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.73	0.77	0.72	0.69	0.64
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.71	0.68	0.67	0.70	0.67	0.65	0.70	0.65	0.62	0.68	0.63	0.59	0.66	0.60	0.56	0.52
6	0.64	0.62	0.61	0.65	0.61	0.59	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.56	0.51	0.47
7	0.59	0.57	0.56	0.59	0.56	0.55	0.59	0.55	0.52	0.58	0.53	0.50	0.57	0.51	0.47	0.44
8	0.55	0.53	0.51	0.55	0.52	0.50	0.55	0.51	0.48	0.55	0.49	0.46	0.54	0.48	0.43	0.40
9	0.51	0.49	0.48	0.51	0.48	0.47	0.51	0.47	0.45	0.51	0.46	0.43	0.51	0.45	0.40	0.37
10	0.48	0.46	0.45	0.48	0.45	0.44	0.48	0.44	0.42	0.48	0.43	0.40	0.48	0.42	0.38	0.35

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



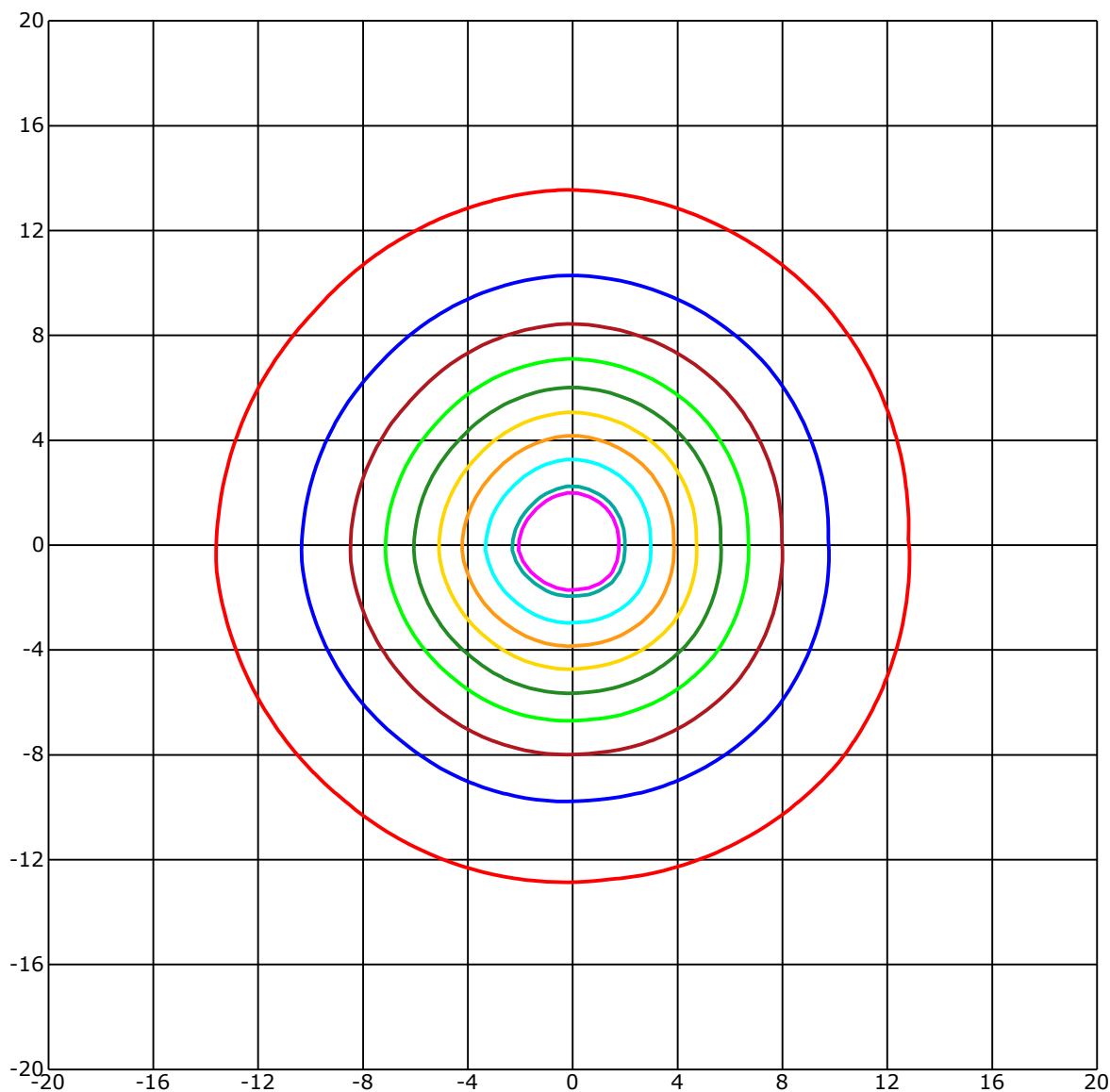
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



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

13.175(92%Emax)	7.161(50%Emax)
12.889(90%Emax)	5.728(40%Emax)
11.457(80%Emax)	4.296(30%Emax)
10.025(70%Emax)	2.864(20%Emax)
8.593(60%Emax)	1.432(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/15 16:41:25

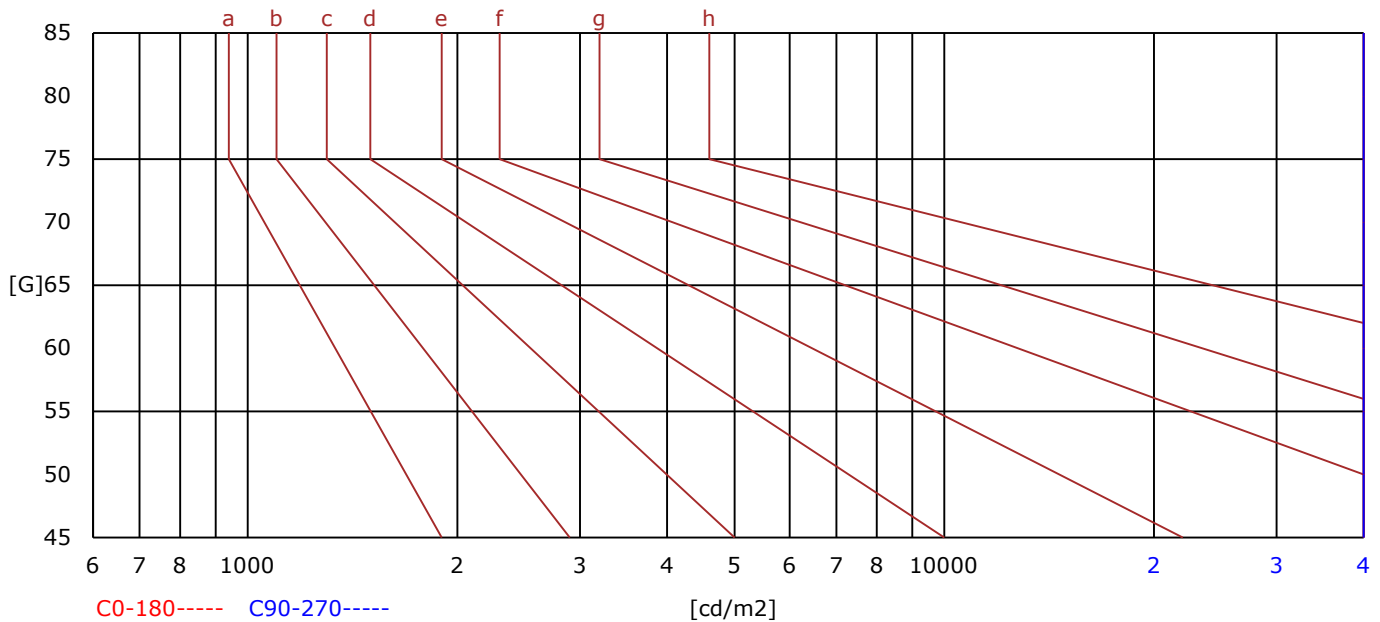
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	157778	151954	145546	139383	132077	122937	107672	83384	44590
C90	158058	151685	145701	138426	131186	122639	107894	82685	42686
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



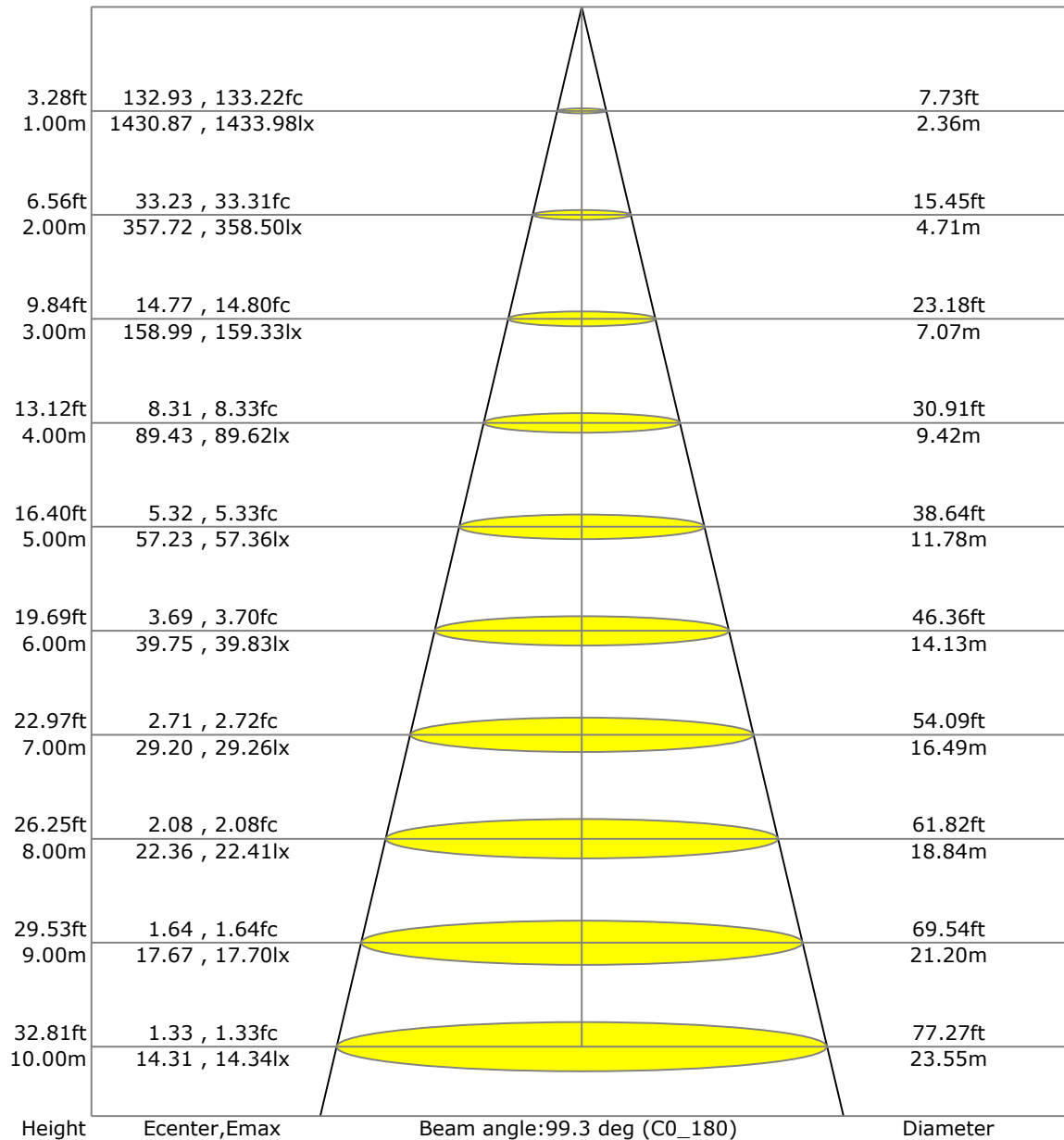
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

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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: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 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	22.26	22.33	22.46	22.52	22.77	22.55	22.62	22.75	22.81	23.05
3H	22.42	22.49	22.63	22.69	22.93	22.66	22.73	22.87	22.92	23.17
4H	22.43	22.50	22.64	22.70	22.95	22.65	22.72	22.86	22.92	23.17
6H	22.41	22.48	22.63	22.68	22.94	22.63	22.70	22.85	22.90	23.15
8H	22.40	22.47	22.62	22.67	22.92	22.61	22.68	22.83	22.88	23.14
12H	22.38	22.45	22.61	22.65	22.91	22.60	22.66	22.82	22.87	23.12
4H 2H	23.96	24.04	24.18	24.23	24.48	24.72	24.79	24.93	24.99	25.24
3H	24.29	24.35	24.51	24.56	24.81	24.98	25.05	25.21	25.25	25.51
4H	24.35	24.41	24.58	24.63	24.89	25.02	25.08	25.25	25.29	25.55
6H	24.36	24.41	24.60	24.64	24.90	25.00	25.06	25.24	25.28	25.54
8H	24.34	24.40	24.59	24.63	24.89	24.98	25.04	25.23	25.27	25.53
12H	24.33	24.38	24.57	24.61	24.88	24.96	25.02	25.21	25.25	25.52
8H 4H	24.09	24.16	24.31	24.37	24.62	25.14	25.21	25.36	25.41	25.66
6H	24.61	24.65	24.86	24.89	25.17	25.58	25.63	25.84	25.87	26.14
8H	24.60	24.65	24.86	24.89	25.17	25.57	25.61	25.83	25.86	26.14
12H	24.59	24.63	24.85	24.88	25.16	25.55	25.59	25.82	25.84	26.12
12H 4H	24.56	24.61	24.81	24.84	25.11	25.63	25.68	25.88	25.92	26.19
6H	24.60	24.64	24.86	24.89	25.16	25.66	25.70	25.92	25.95	26.23

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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ZONAL LUMINOUS FLUX TABLE

[illegible]

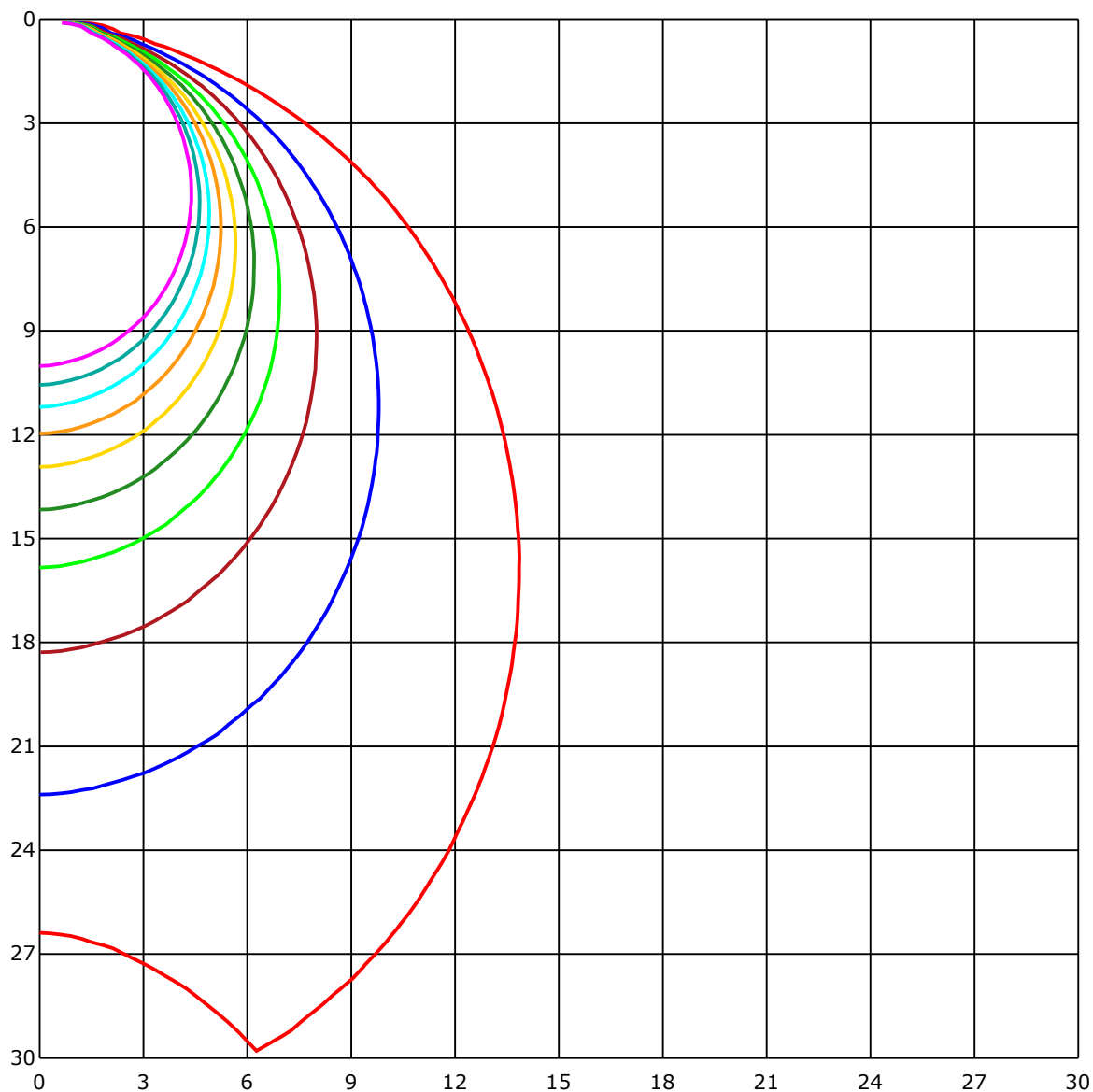
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G Range: 0 - 90 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

14.269	7.134
12.842	5.708
11.415	4.281
9.988	2.854
8.561	1.427

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1430.87	1422.7	1425.35	1429.69	1430.87	1422.7	1425.35	1429.69	1430.87	
G1	1429.45	1421.85	1426.62	1429.83	1432.76	1420.63	1423.08	1429.74	1429.45	
G2	1427.19	1423.46	1425.16	1428.18	1433.7	1420.91	1421.19	1425.91	1427.19	
G3	1421.1	1420.01	1425.87	1428.89	1432.71	1416.43	1416.29	1424.36	1421.1	
G4	1418.27	1420.96	1426.9	1424.73	1433.98	1417.04	1409.77	1420.06	1418.27	
G5	1409.54	1414.96	1425.06	1423.79	1430.4	1408.97	1405.57	1420.06	1409.54	
G6	1403.45	1412.32	1421.67	1418.08	1428.13	1406.0	1399.67	1410.86	1403.45	
G7	1396.42	1407.84	1417.18	1415.44	1425.96	1398.21	1393.11	1406.04	1396.42	
G8	1390.47	1403.59	1412.13	1408.12	1424.17	1393.72	1386.5	1398.59	1390.47	
G9	1380.93	1396.51	1407.18	1404.01	1417.42	1385.7	1377.21	1393.63	1380.93	
G10	1372.49	1390.66	1401.32	1397.22	1410.81	1378.76	1367.11	1383.11	1372.49	
G11	1362.53	1381.26	1394.9	1389.81	1406.61	1369.23	1358.61	1375.84	1362.53	
G12	1350.12	1375.22	1390.7	1382.49	1397.64	1360.88	1349.31	1365.55	1350.12	
G13	1340.63	1368.47	1380.93	1371.64	1391.03	1350.82	1336.29	1356.72	1340.63	
G14	1331.38	1356.96	1372.34	1361.02	1382.73	1342.99	1325.53	1344.97	1331.38	
G15	1313.87	1345.63	1362.06	1351.72	1372.53	1327.79	1312.12	1335.39	1313.87	
G16	1301.5	1335.58	1354.08	1339.59	1364.75	1318.54	1300.89	1322.36	1301.5	
G17	1286.68	1322.17	1343.41	1329.82	1353.37	1302.87	1288.15	1312.45	1286.68	
G18	1276.35	1313.82	1332.46	1316.7	1344.26	1290.51	1274.27	1298.15	1276.35	
G19	1258.88	1298.91	1320.62	1304.52	1331.61	1275.02	1260.63	1283.57	1258.88	
G20	1244.49	1286.35	1306.17	1289.8	1318.45	1263.41	1242.03	1268.28	1244.49	
G21	1228.44	1269.46	1293.81	1275.69	1304.24	1247.65	1228.16	1256.95	1228.44	
G22	1212.16	1256.71	1278.85	1260.11	1292.2	1234.15	1211.07	1236.98	1212.16	
G23	1196.16	1240.9	1267.47	1245.01	1278.05	1215.65	1198.9	1222.12	1196.16	
G24	1177.23	1225.42	1251.76	1230.28	1263.65	1200.6	1178.51	1204.84	1177.23	
G25	1159.58	1208.62	1235.71	1215.13	1246.42	1183.98	1161.8	1189.32	1159.58	
G26	1143.11	1193.99	1219.8	1198.66	1231.65	1166.94	1143.2	1171.29	1143.11	
G27	1122.15	1176.19	1205.27	1181.57	1214.66	1148.3	1125.69	1155.19	1122.15	
G28	1103.94	1158.68	1186.96	1162.22	1198.9	1130.41	1104.46	1137.21	1103.94	
G29	1084.73	1143.58	1169.96	1144.43	1180.87	1112.81	1086.47	1119.7	1084.73	
G30	1066.74	1123.99	1151.84	1128.01	1164.54	1094.87	1068.59	1099.41	1066.74	
G31	1046.78	1104.69	1136.93	1110.17	1147.92	1077.84	1050.98	1083.12	1046.78	
G32	1028.52	1086.66	1116.16	1089.54	1129.19	1056.69	1028.99	1062.4	1028.52	
G33	1008.65	1065.9	1098.23	1070.24	1109.36	1036.44	1012.28	1042.96	1008.65	
G34	988.49	1049.57	1078.59	1050.7	1092.89	1019.03	988.44	1021.86	988.49	
G35	966.78	1027.24	1060.99	1033.42	1071.23	997.13	970.79	1003.74	966.78	
G36	947.38	1008.55	1040.93	1011.43	1053.53	978.11	950.12	982.55	947.38	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/15 16:41:25

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	925.44	988.07	1023.09	992.31	1032.67	958.14	929.54	964.89	925.44	
G38	907.31	969.75	1003.36	970.89	1014.88	937.47	907.74	942.57	907.31	
G39	883.86	948.89	983.44	951.96	994.16	916.42	887.02	923.36	883.86	
G40	862.81	929.12	961.83	930.58	974.1	897.69	865.78	903.73	862.81	
G41	842.28	908.12	941.63	909.3	952.34	875.03	846.1	883.15	842.28	
G42	823.49	888.43	921.09	889.47	932.28	855.54	825.19	859.88	823.49	
G43	800.84	867.05	901.6	870.59	912.65	833.83	806.83	840.67	800.84	
G44	780.31	847.37	880.98	848.13	895.23	814.81	783.42	819.72	780.31	
G45	759.21	825.14	859.64	826.61	870.55	794.04	763.6	798.85	759.21	
G46	737.55	804.47	839.44	804.8	852.09	772.0	741.46	777.43	737.55	
G47	716.4	783.19	818.54	785.03	829.77	750.62	721.59	759.3	716.4	
G48	694.93	763.79	797.25	763.65	808.34	730.7	699.22	735.33	694.93	
G49	673.74	742.55	777.14	743.3	788.33	711.02	678.83	716.31	673.74	
G50	654.62	722.4	757.42	721.12	768.46	689.26	657.64	693.98	654.62	
G51	631.64	700.83	735.85	701.06	745.0	667.84	638.05	674.02	631.64	
G52	610.73	680.25	714.84	680.3	724.9	647.78	615.02	652.92	610.73	
G53	589.82	658.96	693.04	658.21	702.95	625.69	594.87	631.4	589.82	
G54	569.76	638.2	674.3	636.87	682.8	605.3	574.86	609.83	569.76	
G55	548.38	617.43	652.4	618.09	662.22	585.67	553.95	589.87	548.38	
G56	528.79	596.95	630.69	595.06	641.31	564.43	532.38	568.63	528.79	
G57	506.99	575.28	609.97	574.06	619.03	543.28	512.98	548.29	506.99	
G58	486.36	554.37	589.25	553.1	598.55	523.65	491.6	527.38	486.36	
G59	465.83	534.84	568.77	532.33	577.03	502.41	471.54	507.74	465.83	
G60	446.25	515.44	547.91	511.9	557.11	483.3	451.49	486.84	446.25	
G61	425.53	493.54	527.52	492.17	536.3	461.87	430.91	468.38	425.53	
G62	406.6	473.76	507.04	470.65	516.38	442.33	410.24	446.95	406.6	
G63	385.27	453.99	486.27	451.49	494.77	421.7	390.37	426.94	385.27	
G64	364.36	433.69	465.88	430.58	474.61	402.31	369.6	406.46	364.36	
G65	342.74	412.83	446.11	410.05	453.89	381.45	348.08	386.45	342.74	
G66	321.27	393.39	426.47	389.7	434.26	360.96	326.98	364.5	321.27	
G67	299.84	373.14	406.51	371.06	414.34	339.86	305.93	343.45	299.84	
G68	278.56	353.32	385.98	349.87	394.19	318.63	283.61	321.46	278.56	
G69	257.18	332.64	366.3	331.04	373.66	297.1	262.6	300.6	257.18	
G70	235.18	310.98	345.58	310.23	354.54	275.63	240.8	277.85	235.18	
G71	213.99	289.51	325.14	290.17	333.63	254.34	219.8	256.89	213.99	
G72	193.7	269.07	303.81	269.07	314.24	233.15	198.89	235.28	193.7	
G73	172.84	247.69	282.9	247.74	291.91	211.82	178.4	214.65	172.84	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/15 16:41:25

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 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: 2025/5/15 16:41:25

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: