

Report No.:

Test Time: 2024/7/25 10:45:24

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-28.1W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

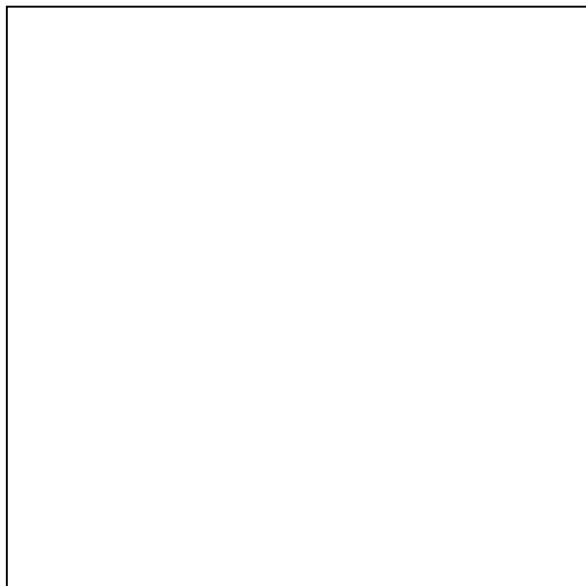
Voltage(V): 219.70 V
Current(A): 0.1350 A
Power(W): 28.11 W
Power Factor: 0.9460
Lamp Luminous Flux: 2885.08

Photometric Results

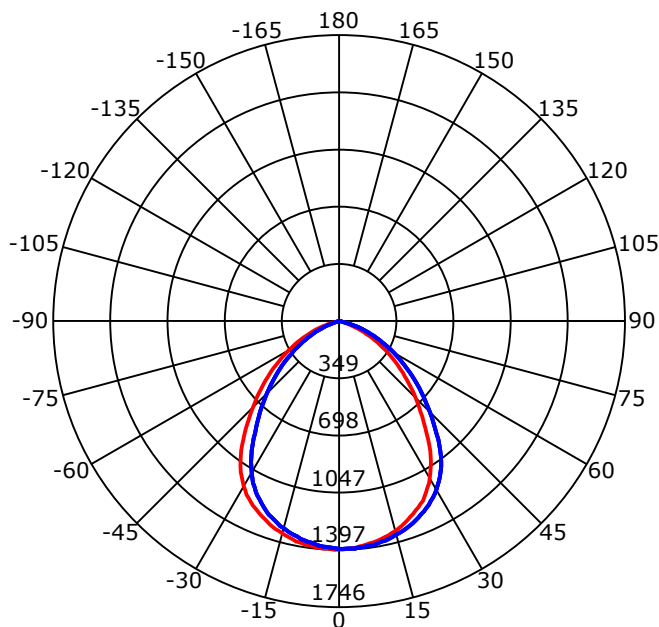
CIE Class: Direct
Luminaire Luminous Flux: 2885.075 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 102.64 lm/W
Beam Angle(50%) C0-180,C90-270: 90.2,90.4
Field Angle(10%) C0-180,C90-270: 137.3,137.4
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1396.53 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1393.97 cd
Effective Luminous Flux: 2821.34 lm
ERP(ϕ use)(120deg): 2626.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.2 deg,90.4 deg

C0-180 — C90-270 —

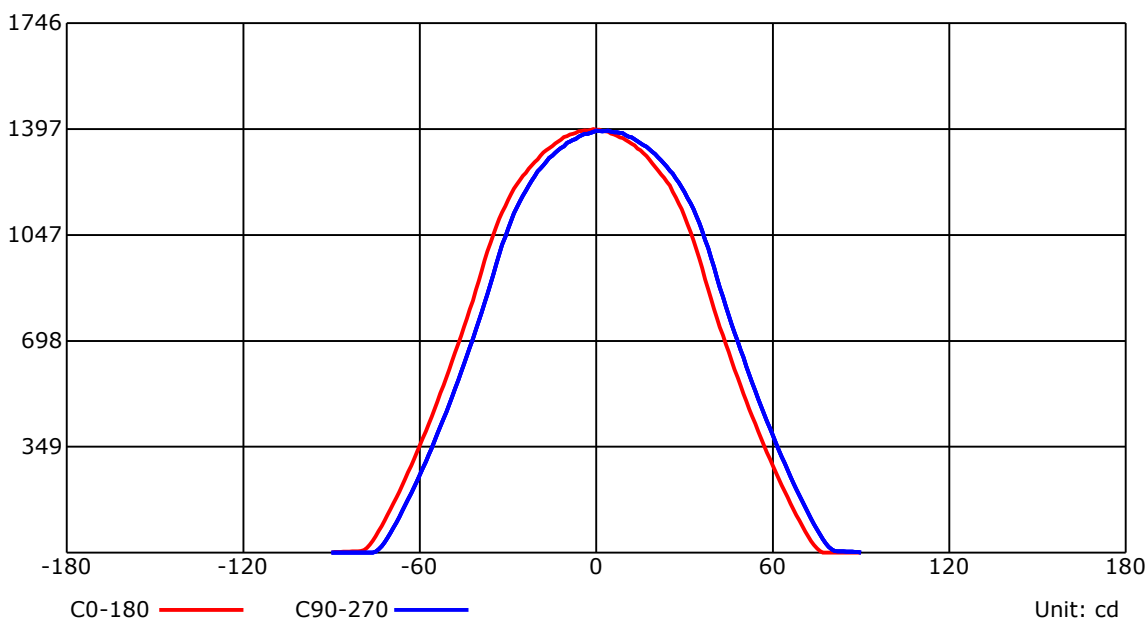
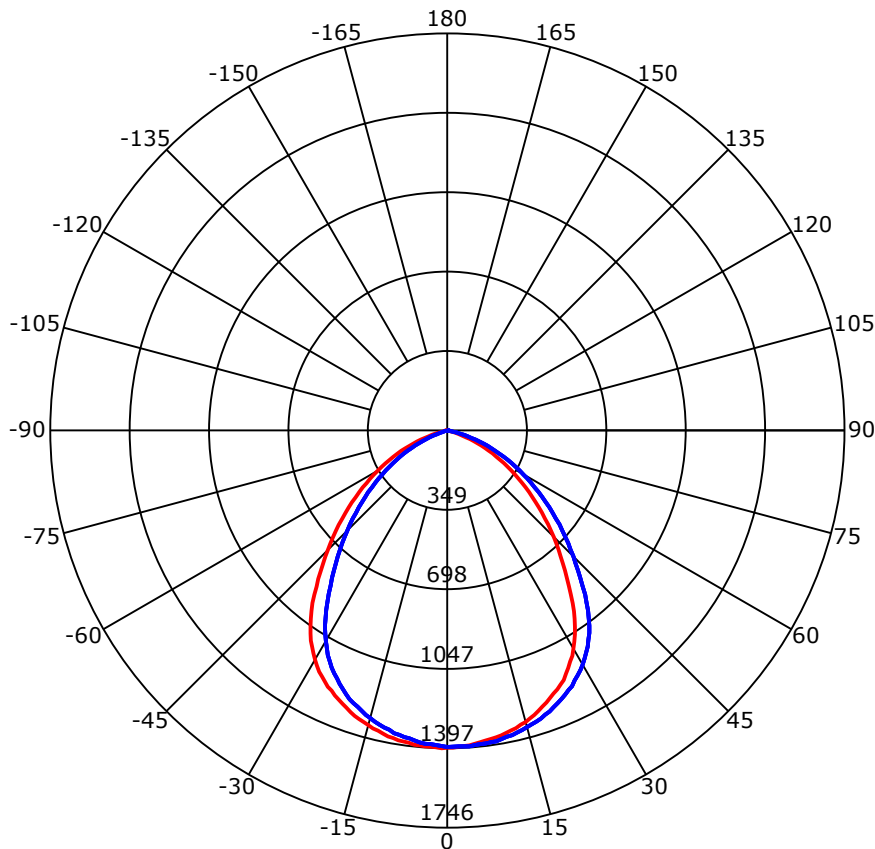
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 10:45:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

Test Time: 2024/7/25 10:45:24

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/25 10:45:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

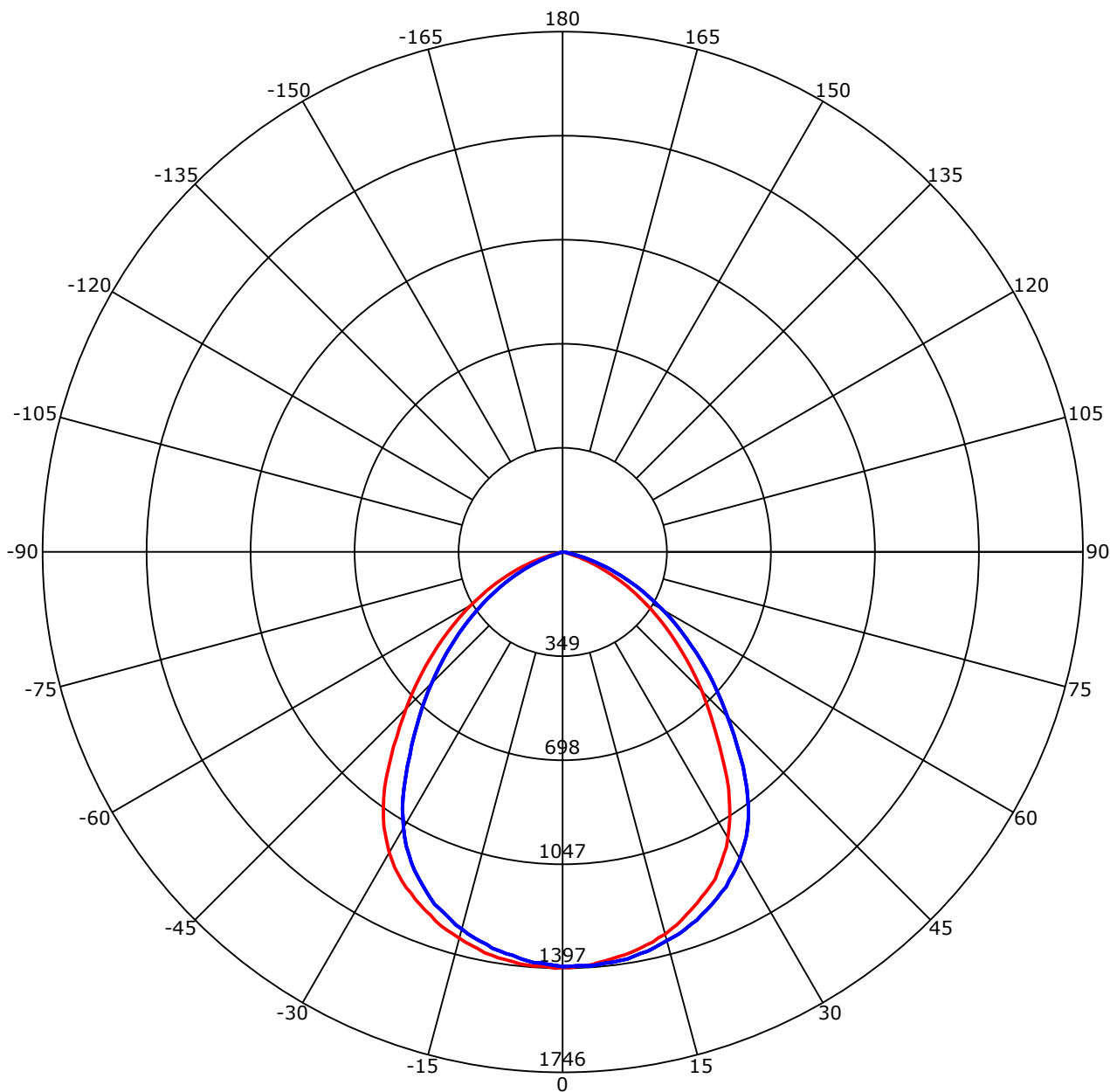
Test Distance: 6.7 m

Remarks:

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Test Time: 2024/7/25 10:45:24

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: 2024/7/25 10:45:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

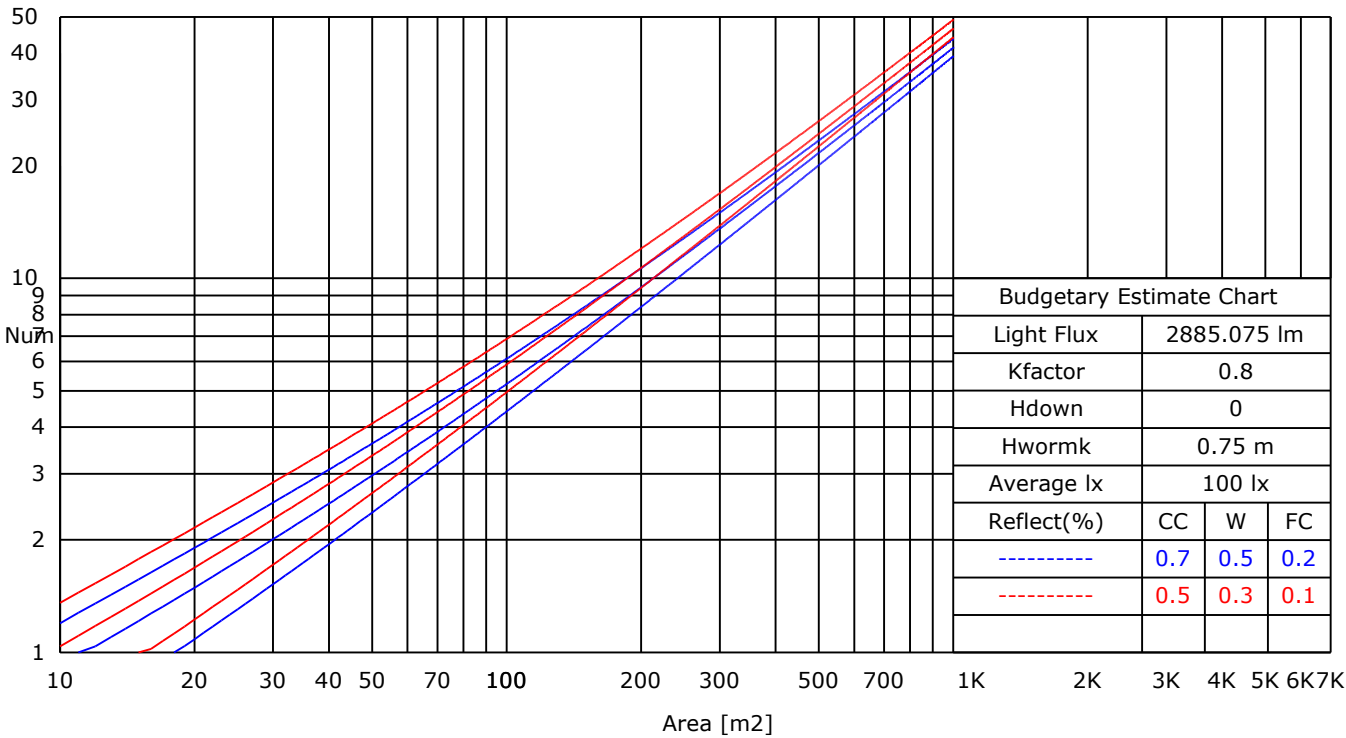
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UTILIZATION FACTORS TABLE

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	COEFFCIENTS 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	1.05	1.04	1.03	1.01	1.00	0.98	0.96	0.94	0.91	0.89	0.88	0.82
2	0.99	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.90	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.77	0.75	0.74	0.77	0.74	0.72	0.75	0.72	0.69	0.73	0.69	0.65	0.70	0.66	0.62	0.58
6	0.71	0.69	0.68	0.71	0.68	0.67	0.70	0.66	0.64	0.68	0.64	0.60	0.66	0.61	0.57	0.53
7	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.62	0.59	0.64	0.59	0.56	0.62	0.57	0.53	0.49
8	0.62	0.60	0.59	0.62	0.59	0.58	0.61	0.57	0.55	0.60	0.56	0.52	0.59	0.53	0.49	0.46
9	0.58	0.56	0.55	0.58	0.55	0.54	0.58	0.54	0.51	0.57	0.52	0.49	0.56	0.50	0.46	0.43
10	0.55	0.53	0.52	0.55	0.52	0.51	0.54	0.51	0.48	0.54	0.49	0.46	0.53	0.47	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



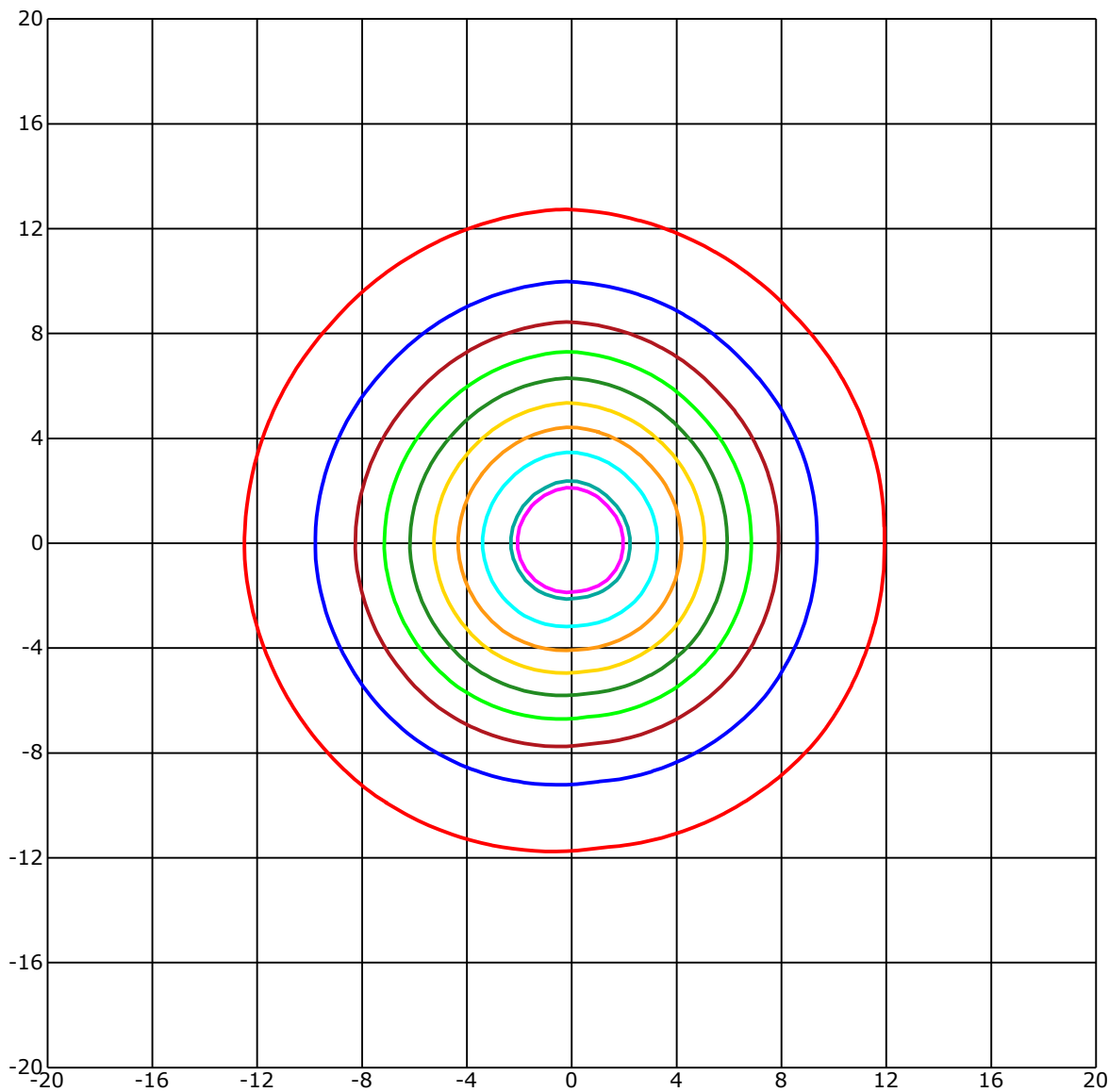
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/25 10:45:24

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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ISOLX DIAGRAM



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

- | | |
|-----------------|----------------|
| 12.842(92%Emax) | 6.979(50%Emax) |
| 12.563(90%Emax) | 5.584(40%Emax) |
| 11.167(80%Emax) | 4.188(30%Emax) |
| 9.771(70%Emax) | 2.792(20%Emax) |
| 8.375(60%Emax) | 1.396(10%Emax) |

C Range: 0 - 360 Deg
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Test Speed: High
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Operators: QC01
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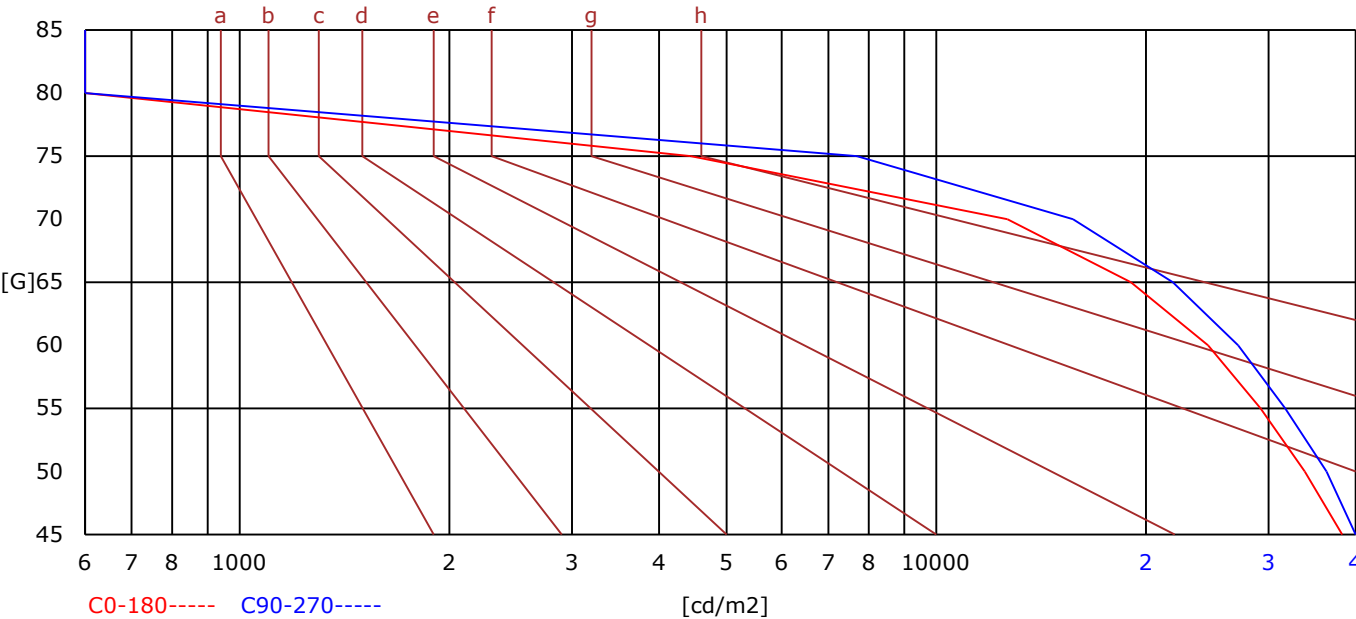
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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BRIGHT LIMIT DIAGRAM

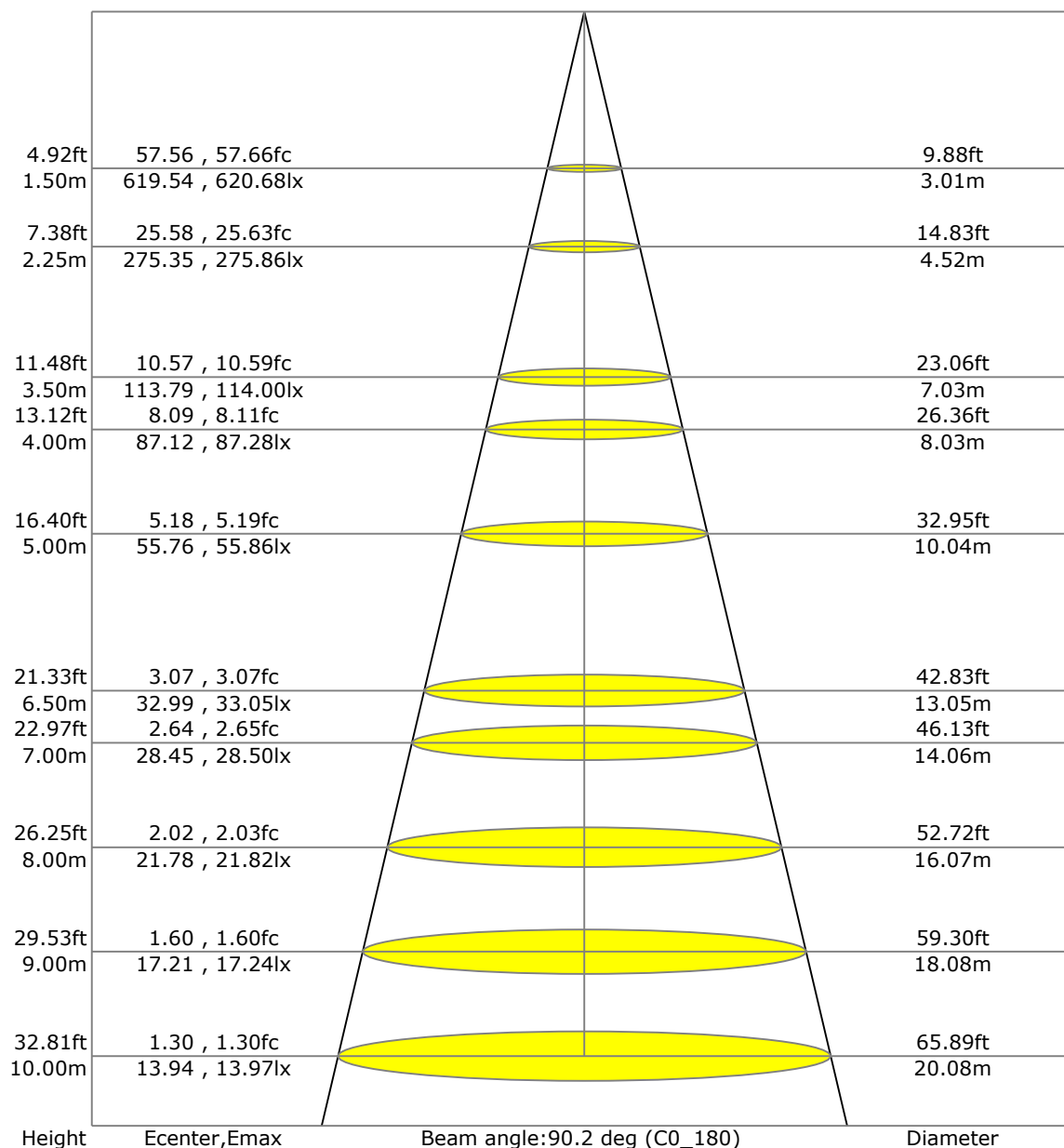
C/G	45	50	55	60	65	70	75	80	85
C0	38237	33797	29211	24560	19020	12643	4444	0	0
C90	40699	36318	31687	27113	21858	15704	7696	0	0
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/25 10:45:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

Report No.:

Test Time: 2024/7/25 10:45:24

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	16.94	17.00	17.14	17.19	17.44	17.34	17.40	17.54	17.59	17.83
3H	16.98	17.04	17.19	17.24	17.48	17.35	17.41	17.55	17.60	17.85
4H	16.96	17.03	17.17	17.22	17.47	17.32	17.39	17.53	17.58	17.83
6H	16.94	17.00	17.15	17.20	17.45	17.30	17.36	17.51	17.56	17.81
8H	16.92	16.98	17.14	17.19	17.44	17.28	17.34	17.50	17.55	17.80
12H	16.91	16.97	17.13	17.17	17.43	17.27	17.33	17.49	17.53	17.79
4H 2H	17.56	17.62	17.77	17.82	18.07	18.34	18.41	18.55	18.60	18.85
3H	17.61	17.67	17.84	17.88	18.14	18.36	18.42	18.59	18.63	18.88
4H	17.59	17.65	17.82	17.86	18.12	18.34	18.39	18.57	18.61	18.86
6H	17.56	17.61	17.80	17.84	18.10	18.30	18.36	18.54	18.58	18.84
8H	17.54	17.60	17.79	17.82	18.09	18.29	18.34	18.53	18.56	18.83
12H	17.53	17.57	17.77	17.81	18.08	18.27	18.32	18.52	18.55	18.82
8H 4H	17.52	17.58	17.74	17.79	18.04	18.33	18.39	18.55	18.59	18.85
6H	17.51	17.55	17.76	17.79	18.06	18.28	18.32	18.53	18.56	18.83
8H	17.49	17.53	17.75	17.78	18.05	18.26	18.30	18.52	18.55	18.82
12H	17.47	17.50	17.73	17.76	18.04	18.24	18.28	18.51	18.53	18.81
12H 4H	17.53	17.57	17.77	17.81	18.08	18.30	18.35	18.55	18.58	18.85
6H	17.49	17.53	17.75	17.77	18.05	18.26	18.30	18.52	18.55	18.82

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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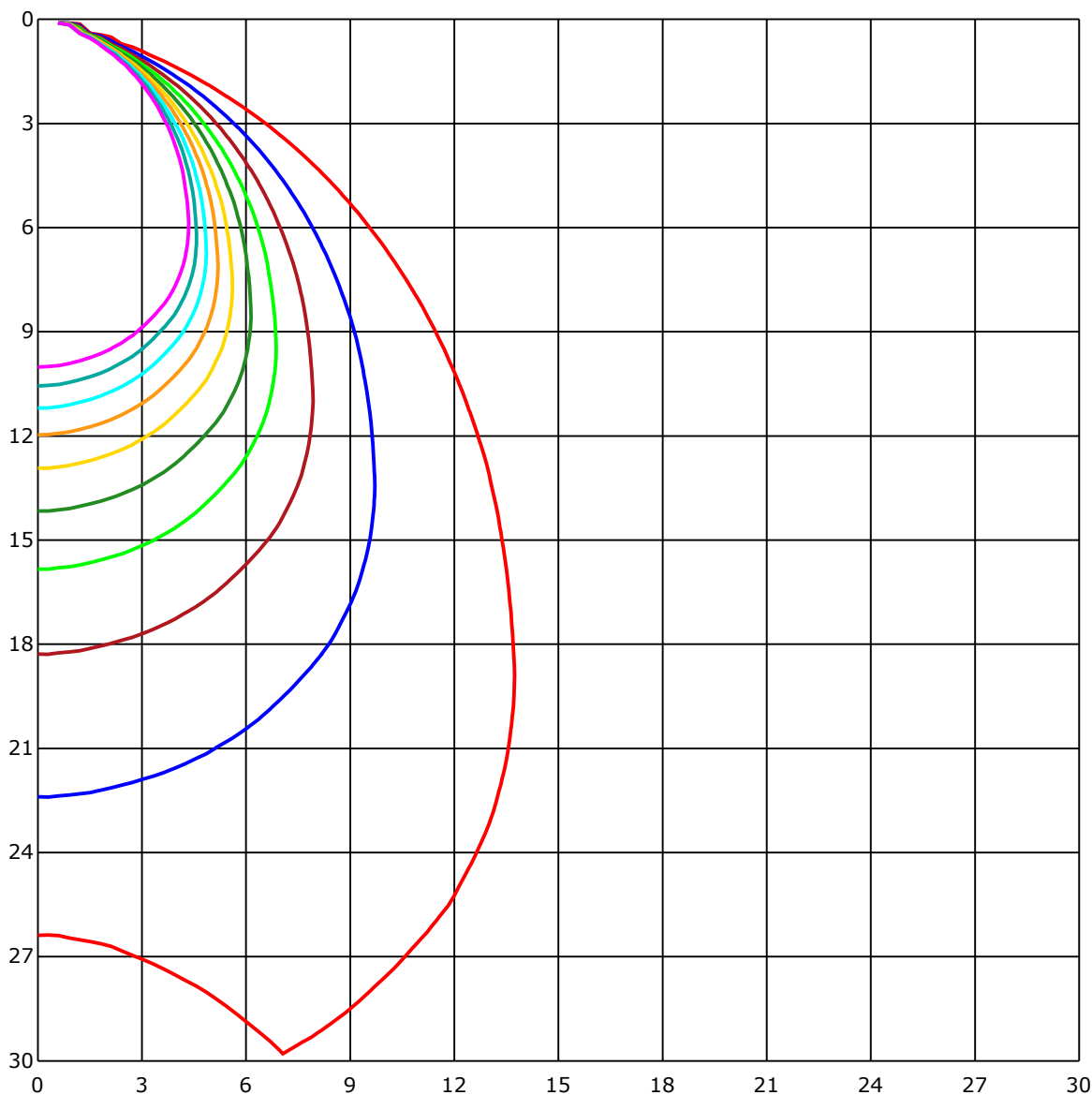
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/25 10:45:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

Report No.:

Test Time: 2024/7/25 10:45:24

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1393.97	1389.17	1391.23	1392.89	1393.97	1389.17	1391.23	1392.89	1393.97	
G1	1395.0	1387.68	1390.38	1393.21	1396.53	1389.08	1387.51	1394.15	1395.0	
G2	1390.69	1387.64	1388.99	1390.96	1393.03	1387.42	1384.27	1390.6	1390.69	
G3	1389.62	1386.02	1390.15	1394.19	1391.28	1386.2	1380.5	1388.58	1389.62	
G4	1388.0	1381.13	1391.55	1389.71	1392.04	1384.45	1381.13	1388.13	1388.0	
G5	1381.94	1378.57	1388.63	1387.73	1390.2	1381.04	1376.51	1385.26	1381.94	
G6	1378.26	1377.58	1386.11	1386.29	1388.85	1381.04	1370.94	1378.89	1378.26	
G7	1374.13	1377.85	1385.93	1384.27	1384.05	1375.88	1363.85	1377.09	1374.13	
G8	1369.5	1370.81	1383.42	1377.81	1380.64	1370.85	1360.66	1372.29	1369.5	
G9	1366.63	1363.4	1382.48	1375.79	1378.62	1365.37	1354.96	1364.43	1366.63	
G10	1360.84	1361.2	1376.64	1372.15	1373.19	1363.44	1350.7	1360.98	1360.84	
G11	1354.69	1353.66	1371.48	1370.13	1370.18	1356.89	1340.01	1355.05	1354.69	
G12	1348.32	1349.75	1368.97	1359.72	1361.6	1349.08	1334.8	1347.82	1348.32	
G13	1343.02	1341.13	1362.95	1356.4	1354.92	1344.5	1327.17	1342.88	1343.02	
G14	1332.47	1336.78	1356.44	1345.98	1349.35	1338.49	1318.87	1332.52	1332.47	
G15	1327.04	1326.14	1349.66	1341.76	1341.18	1330.41	1309.17	1328.43	1327.04	
G16	1317.03	1320.71	1344.05	1335.88	1333.41	1322.41	1301.45	1317.07	1317.03	
G17	1308.01	1309.53	1338.17	1327.62	1327.08	1314.83	1288.43	1310.61	1308.01	
G18	1296.38	1299.57	1330.58	1313.8	1319.09	1309.44	1277.26	1297.82	1296.38	
G19	1283.81	1289.73	1321.29	1307.02	1309.31	1294.04	1266.93	1287.94	1283.81	
G20	1271.96	1279.81	1314.47	1299.75	1296.11	1284.39	1257.23	1274.34	1271.96	
G21	1260.42	1265.67	1303.34	1285.47	1287.49	1273.53	1241.43	1267.83	1260.42	
G22	1246.78	1254.14	1293.37	1272.45	1276.63	1264.96	1225.81	1249.87	1246.78	
G23	1235.96	1241.48	1282.33	1263.07	1265.36	1248.66	1210.01	1236.36	1235.96	
G24	1222.67	1232.19	1271.91	1253.33	1252.21	1237.3	1193.36	1224.38	1222.67	
G25	1210.77	1214.68	1259.52	1246.24	1242.56	1222.76	1177.38	1208.75	1210.77	
G26	1189.77	1202.74	1250.01	1232.9	1228.59	1209.61	1159.24	1193.36	1189.77	
G27	1170.91	1187.66	1233.08	1214.23	1214.27	1191.79	1137.92	1175.4	1170.91	
G28	1151.02	1166.15	1219.84	1194.21	1200.63	1176.39	1118.7	1152.73	1151.02	
G29	1132.44	1145.91	1204.98	1180.25	1182.13	1156.32	1093.57	1133.11	1132.44	
G30	1108.69	1126.6	1188.6	1160.72	1163.77	1138.77	1068.16	1111.66	1108.69	
G31	1082.79	1103.4	1169.7	1139.26	1142.77	1115.88	1041.04	1087.33	1082.79	
G32	1057.03	1079.92	1151.61	1118.21	1121.89	1092.71	1015.41	1062.37	1057.03	
G33	1029.73	1054.47	1132.4	1097.02	1101.2	1068.61	983.94	1034.49	1029.73	
G34	999.43	1025.69	1109.37	1073.28	1076.15	1043.69	952.03	1006.21	999.43	
G35	970.25	1000.01	1087.06	1045.58	1049.35	1011.6	918.76	972.81	970.25	
G36	938.16	969.44	1060.71	1016.58	1021.83	984.17	886.62	939.46	938.16	

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	901.88	936.54	1031.89	987.8	993.24	953.51	851.92	906.19	901.88	
G38	867.95	904.13	1004.06	953.73	962.35	917.1	822.88	873.96	867.95	
G39	835.9	868.98	971.69	920.56	928.15	881.82	791.86	843.71	835.9	
G40	803.71	837.83	941.57	888.91	895.15	851.29	763.09	810.13	803.71	
G41	773.54	806.0	906.91	853.94	865.3	818.48	734.85	782.07	773.54	
G42	743.56	778.12	874.5	820.81	830.73	789.84	705.54	753.3	743.56	
G43	716.71	747.46	843.3	792.53	802.27	759.81	676.81	726.59	716.71	
G44	687.04	721.43	812.33	763.94	772.24	731.98	649.83	696.06	687.04	
G45	661.68	692.16	782.25	736.73	744.19	702.12	621.59	671.46	661.68	
G46	632.59	666.84	752.98	706.79	715.28	676.85	595.87	640.45	632.59	
G47	604.31	637.89	725.47	680.8	688.12	647.22	567.86	612.93	604.31	
G48	577.11	611.99	696.51	654.09	659.7	621.82	541.01	584.87	577.11	
G49	551.56	583.3	668.86	626.93	632.54	592.1	514.75	559.51	551.56	
G50	524.0	556.14	643.77	597.62	603.73	566.69	489.21	532.62	524.0	
G51	499.81	528.76	613.42	569.07	577.33	539.98	464.12	506.81	499.81	
G52	473.14	503.98	587.57	542.68	550.76	515.07	441.22	482.3	473.14	
G53	449.66	478.98	560.81	517.0	525.53	489.48	415.64	458.06	449.66	
G54	425.33	453.7	533.43	491.19	498.77	465.28	392.92	432.83	425.33	
G55	400.01	428.92	507.08	465.28	473.01	439.74	368.23	408.77	400.01	
G56	376.67	404.86	482.3	440.55	448.18	415.37	344.35	385.2	376.67	
G57	353.82	381.97	457.97	416.76	424.43	390.86	322.76	361.9	353.82	
G58	331.15	359.39	433.77	393.42	400.55	369.27	299.78	338.25	331.15	
G59	308.44	335.6	409.4	369.58	376.76	345.38	277.73	315.62	308.44	
G60	286.44	314.36	386.5	347.04	353.46	322.04	256.46	292.86	286.44	
G61	265.48	290.84	362.49	324.42	331.24	300.31	235.45	272.17	265.48	
G62	243.57	269.3	338.92	302.2	308.04	278.45	215.16	250.58	243.57	
G63	223.19	247.61	316.38	279.8	286.62	257.22	195.18	229.84	223.19	
G64	202.01	226.92	294.84	257.0	264.85	236.35	175.3	209.37	202.01	
G65	182.43	205.78	272.84	236.48	243.53	215.43	156.08	188.94	182.43	
G66	162.23	185.84	250.53	215.79	221.89	195.18	137.0	169.01	162.23	
G67	142.66	166.32	228.8	194.82	201.11	175.12	116.94	150.34	142.66	
G68	123.63	147.33	208.96	175.12	181.4	155.63	99.03	130.41	123.63	
G69	105.63	129.15	188.67	156.26	162.1	135.79	81.83	111.51	105.63	
G70	87.54	110.7	169.15	137.5	142.62	117.25	64.78	93.64	87.54	
G71	70.21	92.83	149.8	118.87	124.3	98.58	48.75	76.0	70.21	
G72	54.36	75.95	130.81	101.05	105.9	81.39	34.3	59.39	54.36	
G73	38.74	59.17	111.82	83.41	88.12	64.73	21.41	44.08	38.74	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/25 10:45:24

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.7 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: