

Report No.:

Test Time: 2022/11/19 9:54:23

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 40W 30120 Panel
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 50 mm

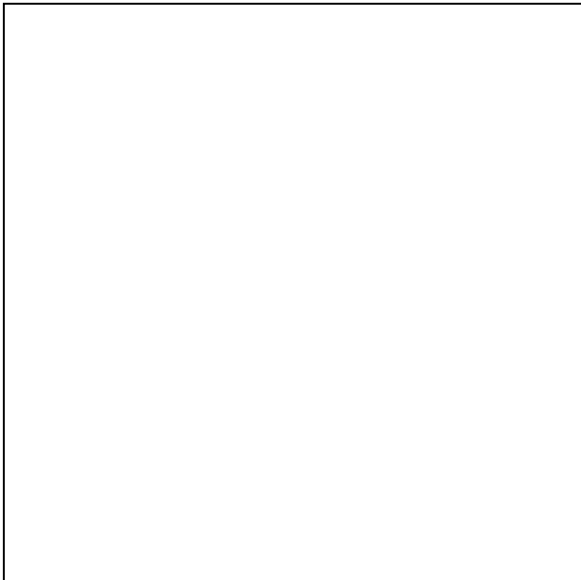
Voltage(V): 219.70 V
Current(A): 0.2170 A
Power(W): 40.23 W
Power Factor: 0.8410
Lamp Luminous Flux: 4278.79

Photometric Results

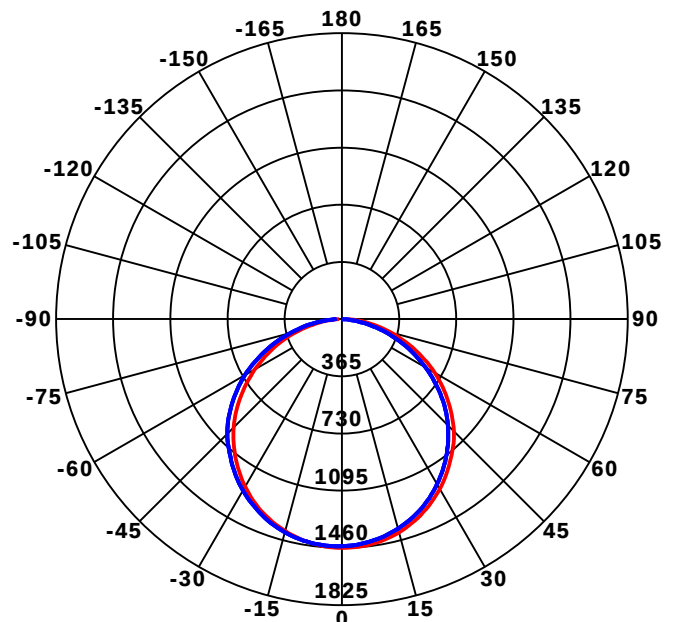
CIE Class: Direct
Luminaire Luminous Flux: 4278.793 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.36 lm/W
Beam Angle(50%) C0-180,C90-270: 114.2,115.1
Field Angle(10%) C0-180,C90-270: 164.3,163.4
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 1459.70 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1459.70 cd
Effective Luminous Flux: 4211.23 lm
ERP(φ use)(120deg): 3325.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 114.2 deg,115.1 deg

C0-180 — C90-270 —

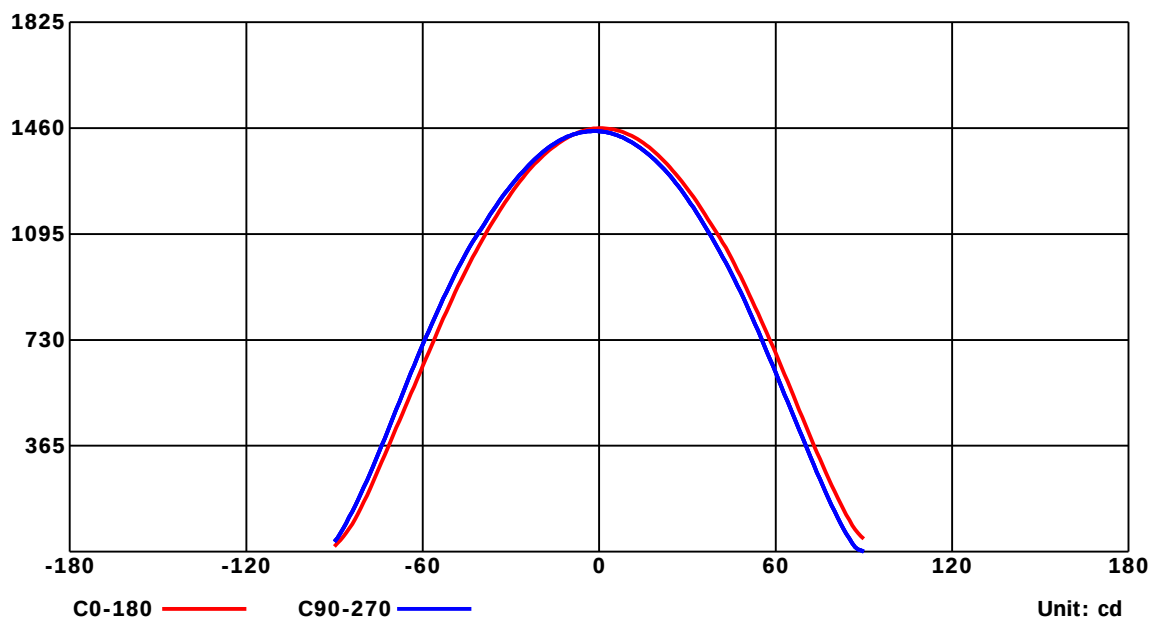
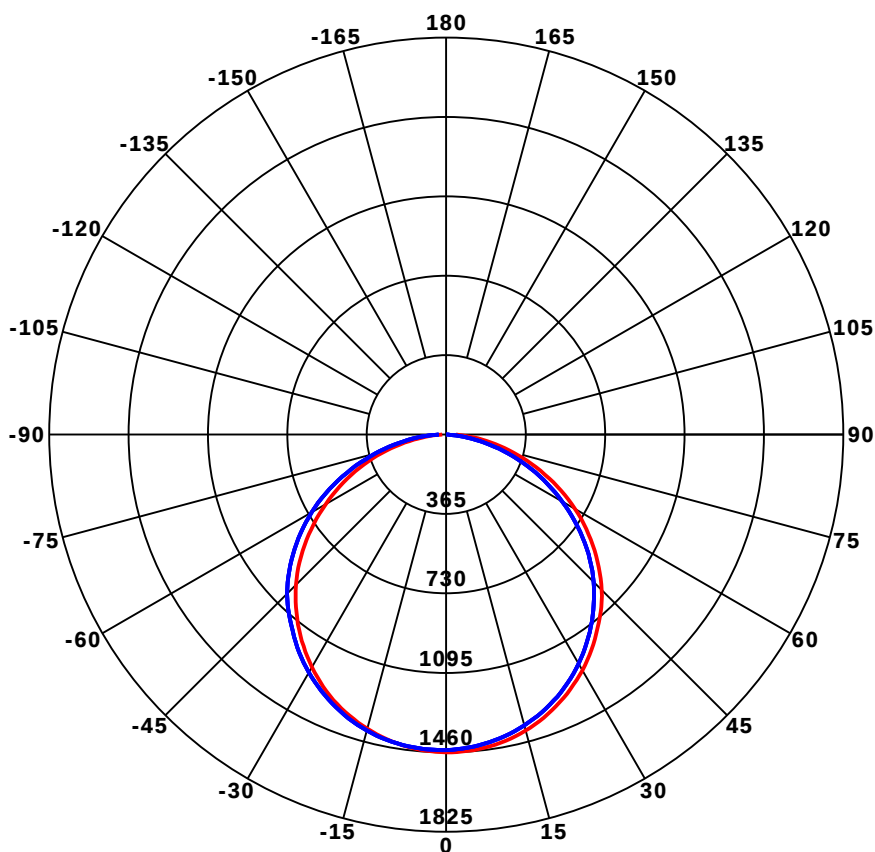
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.38
Operators:
Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800B Goniophotometer
Humidity: 1
Test Distance: 6.38 m
Remarks:

Report No.:

Test Time: 2022/11/19 9:54:23

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

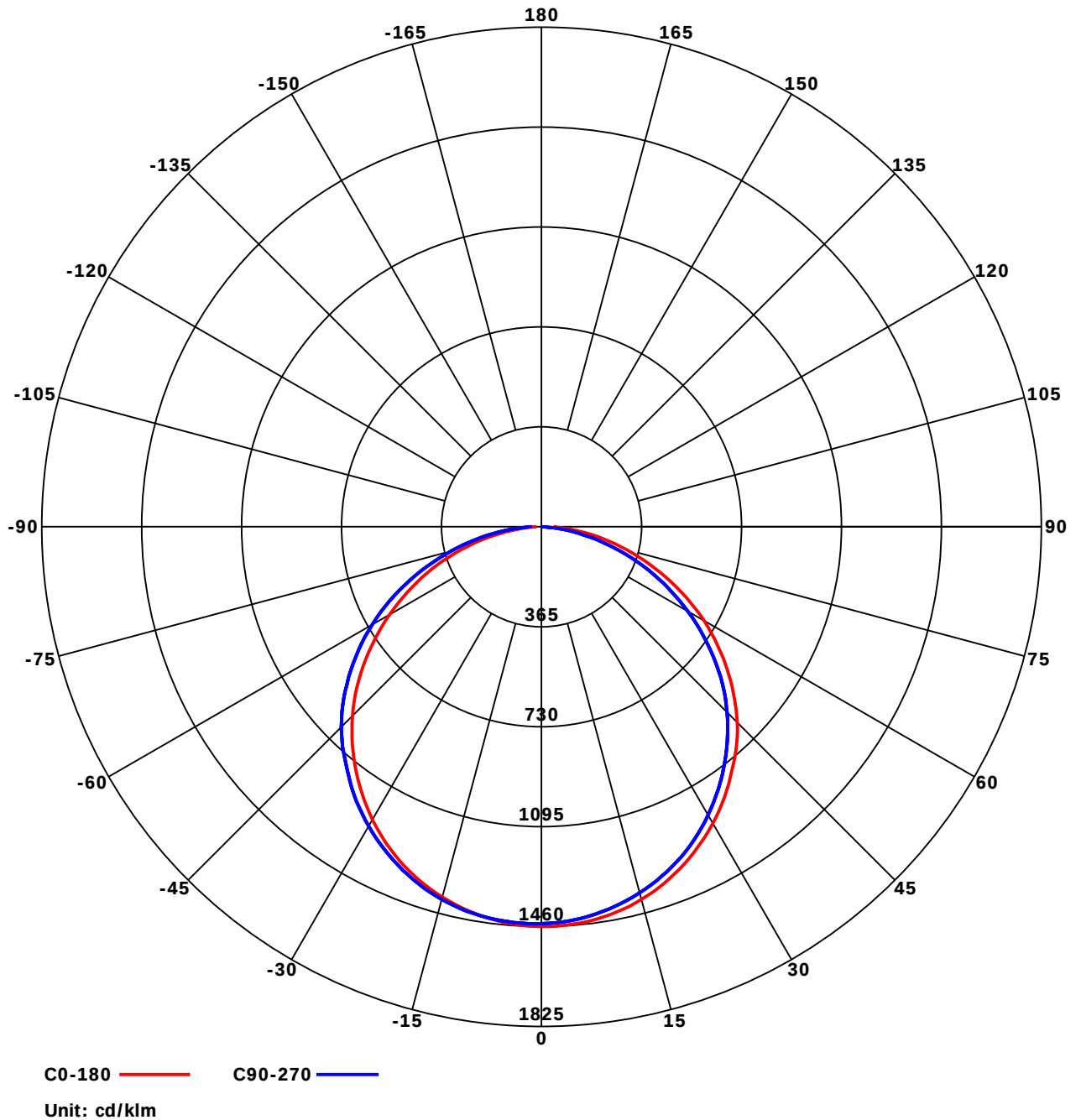
Test Distance: 6.38 m

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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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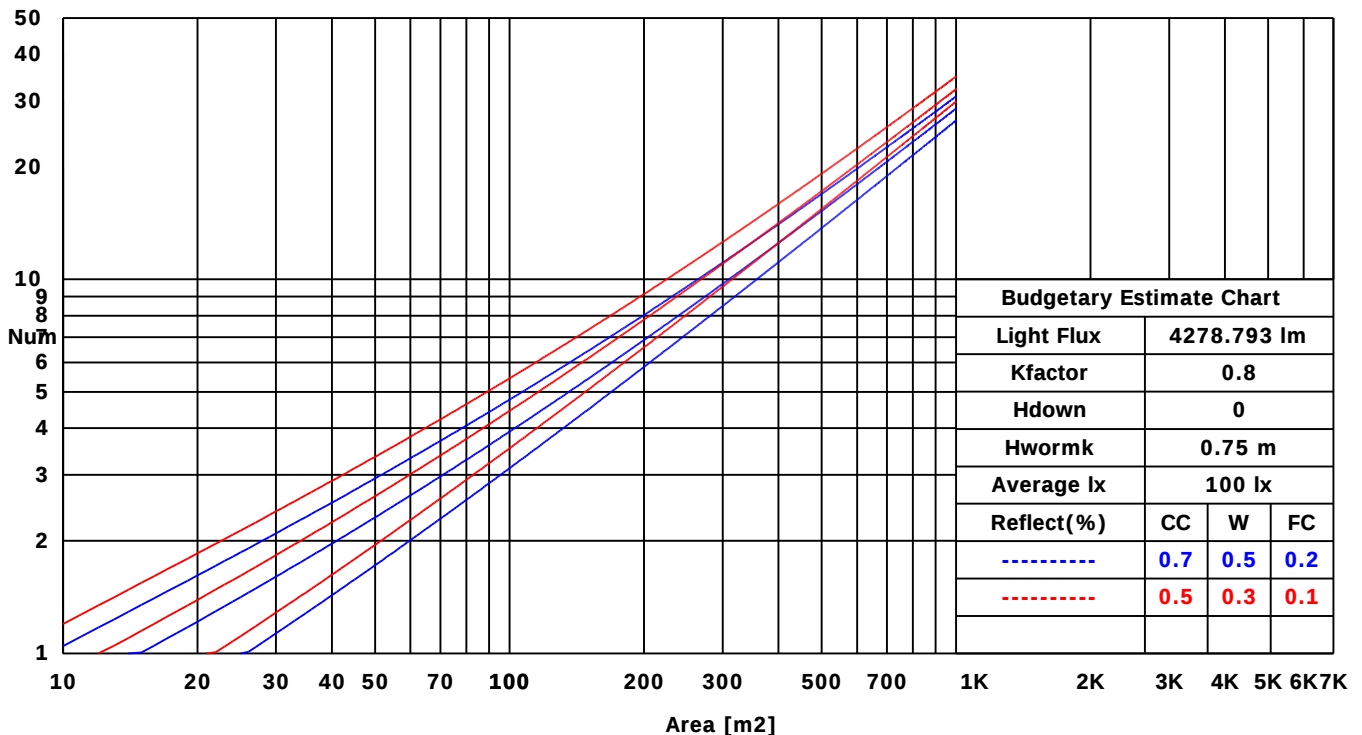
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UTILIZATION FACTORS TABLE

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	1.07	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	0.94	0.92	0.91	0.93	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.71
3	0.84	0.81	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.79	0.74	0.71	0.75	0.70	0.67	0.62
4	0.75	0.72	0.71	0.75	0.71	0.69	0.73	0.69	0.66	0.71	0.67	0.63	0.69	0.64	0.59	0.55
5	0.67	0.65	0.63	0.67	0.64	0.62	0.67	0.62	0.59	0.65	0.60	0.56	0.63	0.58	0.53	0.49
6	0.61	0.59	0.57	0.61	0.58	0.56	0.61	0.57	0.54	0.60	0.55	0.51	0.59	0.53	0.48	0.45
7	0.56	0.53	0.52	0.56	0.53	0.51	0.56	0.52	0.49	0.56	0.50	0.46	0.55	0.49	0.44	0.41
8	0.51	0.49	0.48	0.52	0.49	0.47	0.52	0.48	0.45	0.52	0.46	0.43	0.51	0.45	0.40	0.37
9	0.47	0.45	0.44	0.48	0.45	0.43	0.48	0.44	0.41	0.48	0.43	0.39	0.48	0.42	0.37	0.34
10	0.44	0.42	0.41	0.45	0.42	0.40	0.45	0.41	0.38	0.45	0.40	0.37	0.45	0.39	0.35	0.32

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

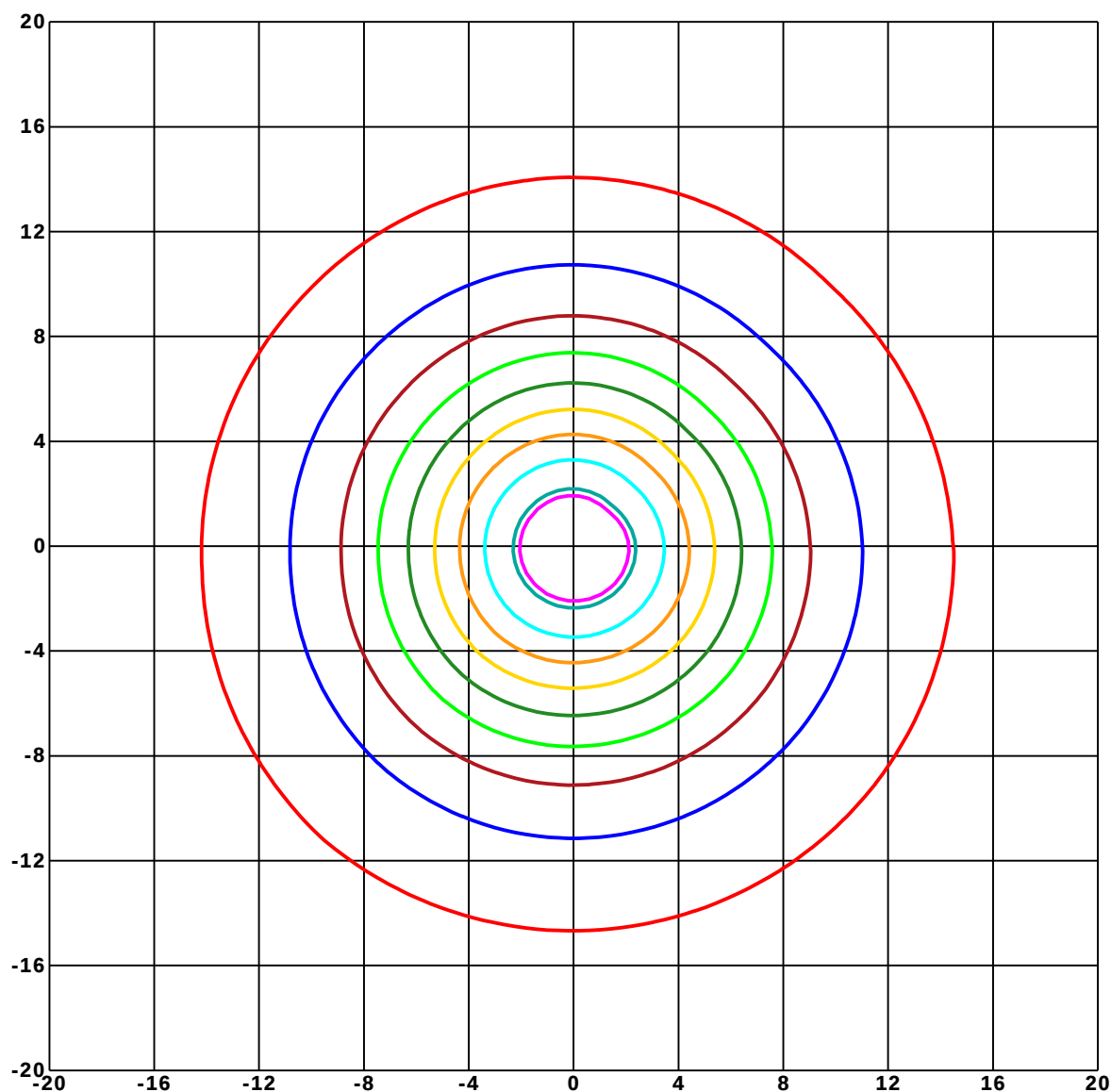
Test Distance: 6.38 m

Remarks:

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Test Time: 2022/11/19 9:54:23

ISOLX DIAGRAM



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

13.429(1%E _{max})	7.299(1%E _{max})
13.137(1%E _{max})	5.839(0%E _{max})
11.678(1%E _{max})	4.379(0%E _{max})
10.218(1%E _{max})	2.919(0%E _{max})
8.758(1%E _{max})	1.46(0%E _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

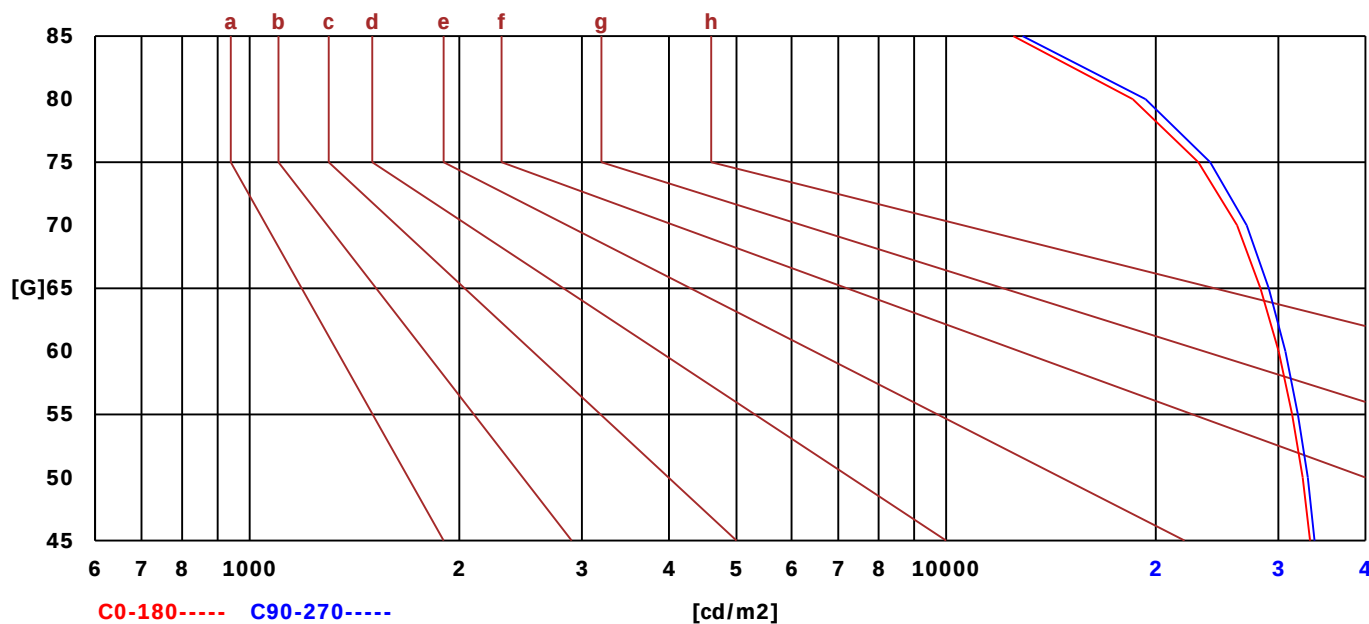
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	33301	32511	31386	30019	28278	26150	23016	18524	12493
C90	33803	33070	32000	30695	29039	27007	23933	19333	12878
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: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

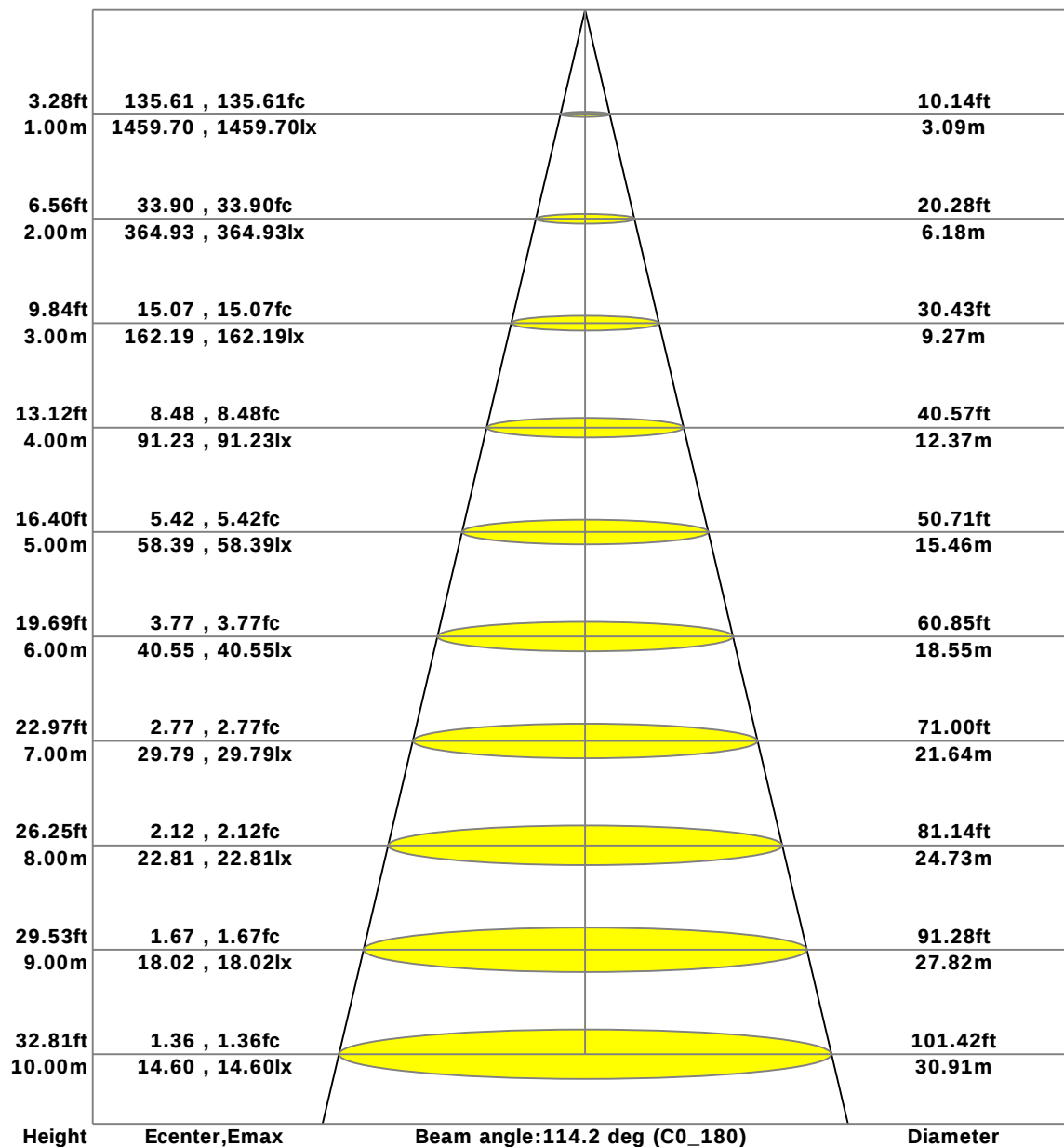
Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2022/11/19 9:54:23

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 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	19.37	19.45	19.57	19.64	19.88	19.14	19.22	19.34	19.41	19.65
3H	19.48	19.55	19.68	19.75	19.99	19.27	19.35	19.48	19.54	19.79
4H	19.48	19.56	19.69	19.75	20.00	19.29	19.37	19.50	19.56	19.81
6H	19.46	19.53	19.68	19.73	19.99	19.28	19.35	19.49	19.55	19.80
8H	19.44	19.51	19.66	19.72	19.97	19.26	19.33	19.48	19.53	19.79
12H	19.43	19.50	19.65	19.70	19.96	19.24	19.31	19.47	19.52	19.77
4H 2H	22.05	22.12	22.26	22.32	22.57	21.51	21.58	21.72	21.78	22.03
3H	22.27	22.34	22.49	22.54	22.80	21.77	21.84	21.99	22.04	22.30
4H	22.31	22.37	22.54	22.59	22.84	21.82	21.89	22.05	22.10	22.36
6H	22.30	22.36	22.54	22.58	22.85	21.84	21.90	22.08	22.12	22.38
8H	22.29	22.34	22.53	22.57	22.84	21.83	21.89	22.07	22.11	22.38
12H	22.27	22.32	22.52	22.55	22.82	21.81	21.86	22.06	22.10	22.37
8H 4H	22.85	22.92	23.07	23.12	23.38	22.02	22.09	22.24	22.29	22.54
6H	23.32	23.37	23.57	23.61	23.88	22.52	22.57	22.78	22.81	23.08
8H	23.31	23.36	23.57	23.60	23.88	22.53	22.57	22.79	22.82	23.10
12H	23.30	23.34	23.56	23.59	23.87	22.52	22.56	22.79	22.82	23.10
12H 4H	23.52	23.57	23.77	23.81	24.08	22.55	22.60	22.80	22.83	23.10
6H	23.59	23.63	23.85	23.88	24.16	22.62	22.66	22.88	22.91	23.19

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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1800B Goniophotometer
 Humidity: 1
 Test Distance: 6.38 m
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ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

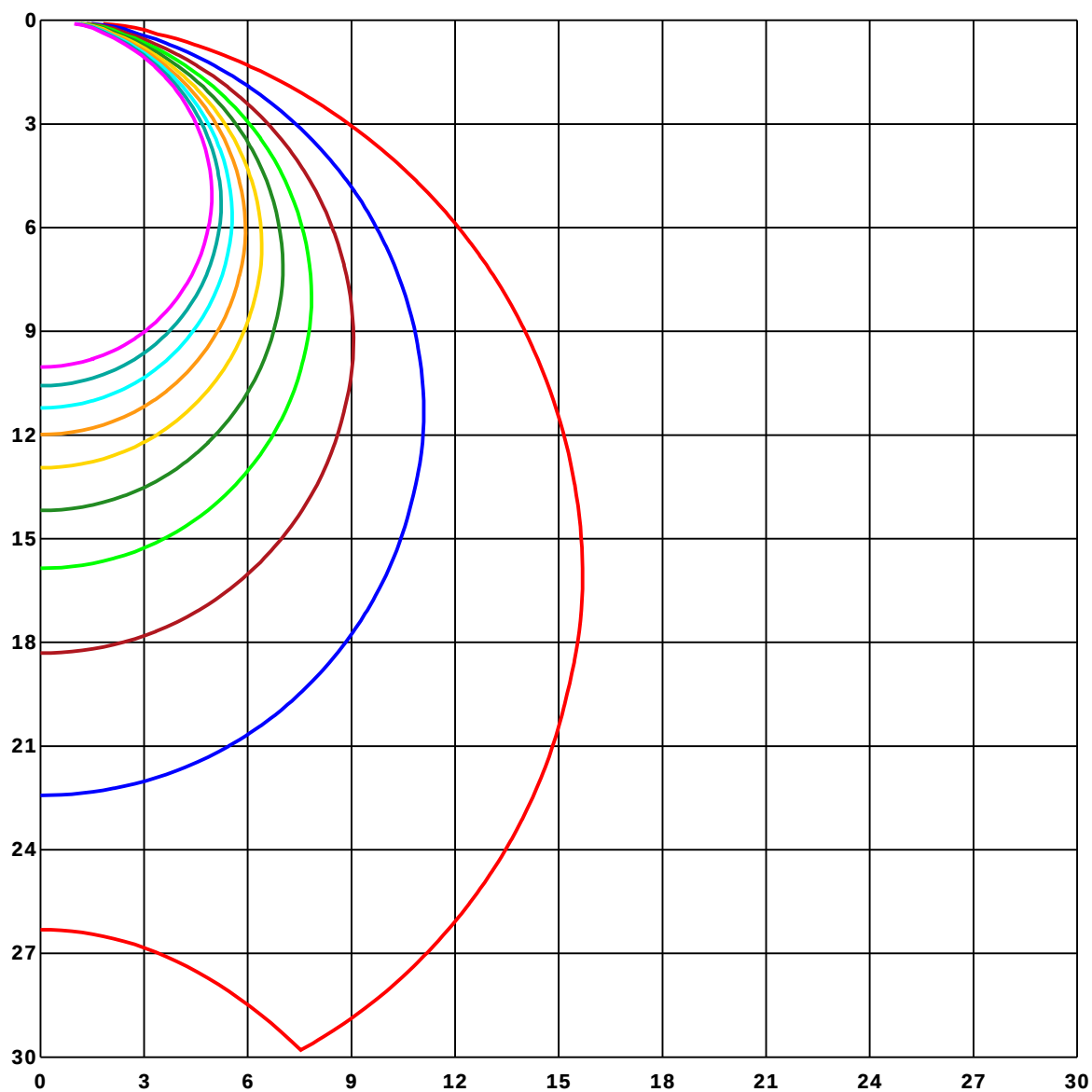
Test Distance: 6.38 m

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

14.517	7.259
13.065	5.807
11.614	4.355
10.162	2.903
8.71	1.452

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2022/11/19 9:54:23

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1459.7	1445.13	1449.16	1453.72	1459.7	1445.13	1449.16	1453.72	1459.7	
G1	1459.7	1444.03	1448.1	1452.74	1459.21	1445.9	1449.65	1454.12	1459.7	
G2	1459.21	1442.36	1446.76	1451.32	1458.15	1446.11	1449.85	1454.04	1459.21	
G3	1458.11	1440.12	1444.6	1449.32	1456.69	1445.82	1449.2	1453.6	1458.11	
G4	1456.57	1437.48	1442.24	1446.8	1454.61	1445.05	1448.39	1452.62	1456.57	
G5	1454.82	1434.14	1439.27	1443.75	1452.13	1443.83	1446.96	1451.15	1454.82	
G6	1452.41	1430.23	1435.69	1440.37	1449.0	1442.24	1445.29	1449.24	1452.41	
G7	1449.52	1426.2	1431.62	1436.26	1445.37	1440.29	1443.05	1446.84	1449.52	
G8	1446.19	1421.48	1427.3	1431.86	1441.26	1437.52	1440.45	1443.99	1446.19	
G9	1442.48	1416.39	1422.25	1426.89	1436.62	1434.51	1437.23	1440.73	1442.48	
G10	1438.17	1410.82	1417.08	1421.52	1431.66	1430.88	1433.53	1437.03	1438.17	
G11	1433.24	1404.71	1411.18	1415.66	1426.12	1427.02	1429.54	1432.59	1433.24	
G12	1427.95	1398.28	1404.95	1409.39	1420.18	1422.42	1424.9	1427.91	1427.95	
G13	1422.17	1391.32	1398.28	1402.27	1413.7	1417.41	1419.81	1422.54	1422.17	
G14	1415.66	1383.91	1391.07	1395.43	1406.74	1412.08	1414.19	1416.84	1415.66	
G15	1408.86	1375.93	1383.58	1387.74	1399.5	1406.01	1408.17	1410.53	1408.86	
G16	1401.53	1367.75	1375.65	1379.68	1391.77	1399.46	1401.58	1403.81	1401.53	
G17	1393.64	1359.16	1367.22	1371.17	1383.62	1392.7	1394.61	1396.57	1393.64	
G18	1385.17	1350.0	1358.47	1362.09	1374.95	1385.25	1387.0	1388.92	1385.17	
G19	1376.26	1340.52	1349.19	1352.89	1366.2	1377.56	1378.74	1380.82	1376.26	
G20	1366.81	1330.59	1339.5	1342.96	1356.47	1369.5	1370.27	1372.51	1366.81	
G21	1356.88	1320.0	1329.45	1332.5	1346.5	1361.16	1361.24	1363.8	1356.88	
G22	1346.58	1309.18	1318.66	1321.88	1336.0	1352.69	1351.75	1354.97	1346.58	
G23	1335.92	1297.86	1307.63	1310.64	1325.17	1344.18	1341.82	1346.01	1335.92	
G24	1324.73	1285.73	1296.03	1298.72	1313.61	1335.59	1331.6	1337.22	1324.73	
G25	1313.41	1273.32	1283.86	1286.42	1301.56	1326.8	1320.94	1328.19	1313.41	
G26	1301.48	1260.21	1271.0	1273.4	1288.99	1317.52	1309.91	1318.66	1301.48	
G27	1289.31	1246.82	1257.81	1259.92	1275.88	1306.45	1298.51	1307.43	1289.31	
G28	1276.73	1232.94	1244.29	1246.37	1262.41	1294.93	1286.75	1295.38	1276.73	
G29	1263.71	1218.41	1230.41	1231.8	1248.61	1283.13	1274.54	1283.45	1263.71	
G30	1250.52	1203.87	1215.88	1217.43	1234.24	1270.83	1262.24	1270.83	1250.52	
G31	1236.76	1188.41	1200.82	1202.04	1219.18	1258.3	1249.18	1257.89	1236.76	
G32	1222.6	1173.22	1185.76	1186.82	1204.24	1245.19	1236.03	1244.54	1222.6	
G33	1208.11	1157.31	1169.89	1171.15	1188.65	1231.63	1222.39	1230.74	1208.11	
G34	1192.97	1141.07	1154.13	1155.03	1172.9	1217.79	1208.23	1216.61	1192.97	
G35	1177.58	1124.7	1137.89	1138.62	1156.9	1203.67	1193.33	1202.08	1177.58	
G36	1161.42	1107.97	1121.61	1121.85	1140.5	1189.1	1178.35	1187.35	1161.42	

C Range: 0 - 360 Deg

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1144.85	1090.51	1104.56	1104.68	1123.48	1174.04	1162.72	1171.88	1144.85	
G38	1128.69	1073.01	1087.21	1087.21	1106.26	1158.57	1146.48	1156.17	1128.69	
G39	1112.98	1055.1	1069.43	1069.06	1088.48	1142.29	1130.44	1139.81	1112.98	
G40	1097.84	1037.07	1051.8	1051.07	1070.69	1125.84	1115.02	1122.99	1097.84	
G41	1082.09	1018.63	1033.49	1032.63	1052.25	1108.91	1100.0	1105.69	1082.09	
G42	1065.4	1000.11	1015.13	1014.23	1033.69	1091.37	1084.41	1087.7	1065.4	
G43	1047.89	981.06	996.36	995.22	1014.8	1073.5	1068.17	1069.63	1047.89	
G44	1029.41	961.85	977.19	975.97	995.47	1055.18	1051.44	1050.83	1029.41	
G45	1010.24	941.9	957.65	956.11	975.97	1036.7	1033.89	1032.14	1010.24	
G46	990.42	921.75	937.59	935.92	955.78	1017.69	1015.49	1012.77	990.42	
G47	970.43	901.4	917.31	915.56	935.51	998.6	996.53	993.47	970.43	
G48	949.72	880.03	896.51	894.32	914.67	979.1	976.99	973.69	949.72	
G49	928.87	858.21	875.1	872.62	893.38	959.44	956.59	953.7	928.87	
G50	907.83	835.91	852.64	850.27	871.24	939.25	935.71	933.19	907.83	
G51	886.62	813.15	830.17	827.36	848.85	919.23	914.75	912.88	886.62	
G52	864.81	790.52	807.45	804.73	826.71	898.31	893.54	891.55	864.81	
G53	842.83	767.28	784.46	781.4	803.95	877.38	872.38	870.18	842.83	
G54	820.76	743.91	761.01	758.04	780.95	856.14	850.23	848.48	820.76	
G55	798.25	720.1	736.91	734.19	757.67	834.36	828.09	826.42	798.25	
G56	775.87	696.33	713.06	710.33	734.1	812.58	806.11	804.4	775.87	
G57	753.36	672.64	688.96	686.56	710.7	790.72	783.4	782.18	753.36	
G58	730.4	648.67	665.11	662.5	687.25	768.21	760.89	759.54	730.4	
G59	707.48	624.41	640.73	638.2	663.77	745.83	737.73	736.79	707.48	
G60	684.08	600.39	616.47	613.9	640.2	722.79	714.4	713.47	684.08	
G61	660.47	575.68	591.64	589.07	616.26	699.22	690.55	689.74	660.47	
G62	636.25	551.26	567.05	564.45	592.25	675.61	666.49	665.68	636.25	
G63	611.83	526.96	542.35	540.15	568.44	651.39	641.34	641.14	611.83	
G64	587.53	502.86	518.0	515.85	544.99	626.77	616.75	616.39	587.53	
G65	562.49	478.03	493.7	490.9	521.3	602.34	591.15	591.6	562.49	
G66	538.23	454.51	468.96	466.92	497.73	577.23	566.32	566.24	538.23	
G67	513.08	430.16	444.33	442.33	474.04	552.64	540.84	541.61	513.08	
G68	488.41	405.95	420.4	418.28	450.6	527.69	515.15	516.38	488.41	
G69	463.83	382.17	395.73	393.9	426.83	502.25	489.76	490.65	463.83	
G70	439.16	357.75	371.14	369.47	403.01	477.95	464.44	466.19	439.16	
G71	414.82	333.33	346.6	344.73	379.2	453.2	439.2	441.24	414.82	
G72	391.01	309.96	322.5	321.16	355.68	428.33	414.21	416.28	391.01	
G73	366.83	285.87	298.77	296.61	332.23	404.28	388.97	392.27	366.83	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks:

Report No.:

Test Time: 2022/11/19 9:54:23

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.38

Operators:

Test Date: 2022/11/19 9:54:23

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800B Goniophotometer

Humidity: 1

Test Distance: 6.38 m

Remarks: