

Report No.:

Test Time: 2024/12/24 18:57:53

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT140-25W
Lamp Type:
Luminous Width: 130 mm
Luminous Length: 130 mm
Luminous Height: 55 mm

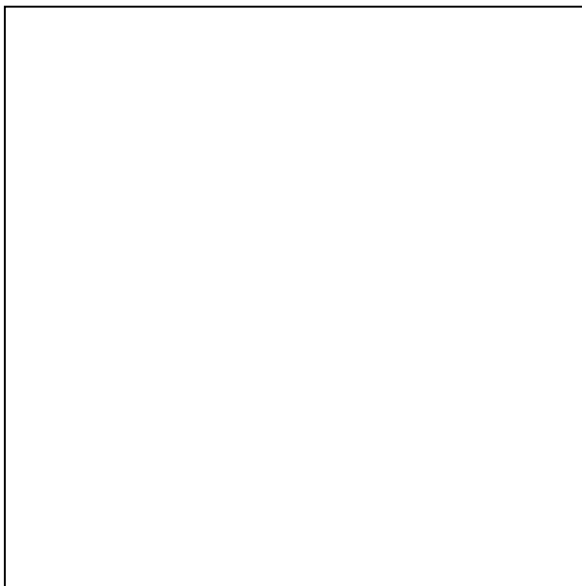
Voltage(V): 219.90 V
Current(A): 0.1170 A
Power(W): 25.17 W
Power Factor: 0.9760
Lamp Luminous Flux: 2597.67

Photometric Results

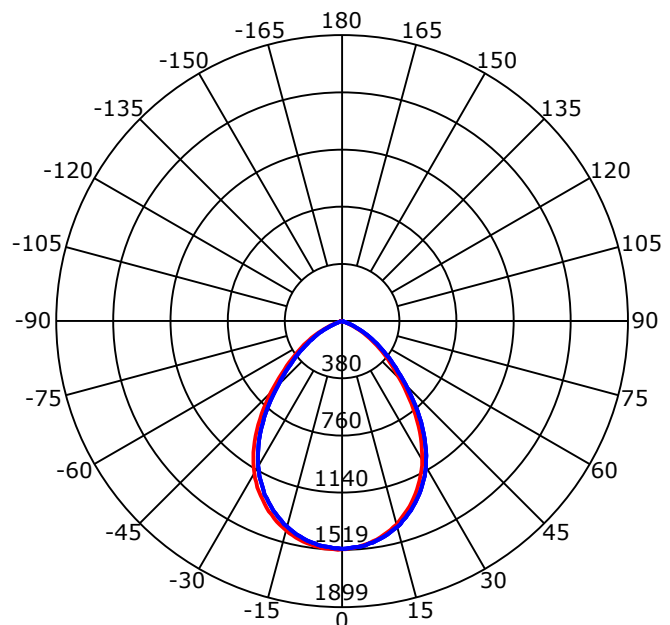
CIE Class: Direct
Luminaire Luminous Flux: 2597.665 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.20 lm/W
Beam Angle(50%) C0-180,C90-270: 81.2,81.4
Field Angle(10%) C0-180,C90-270: 126.5,126.3
S/MH C0-180,C90-270: 1.109,1.109

Max. Intensity: 1519.47 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1515.34 cd
Effective Luminous Flux: 2514.14 lm
ERP(ϕ use)(120deg): 2457.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 81.2 deg,81.4 deg

C0-180 — C90-270 —

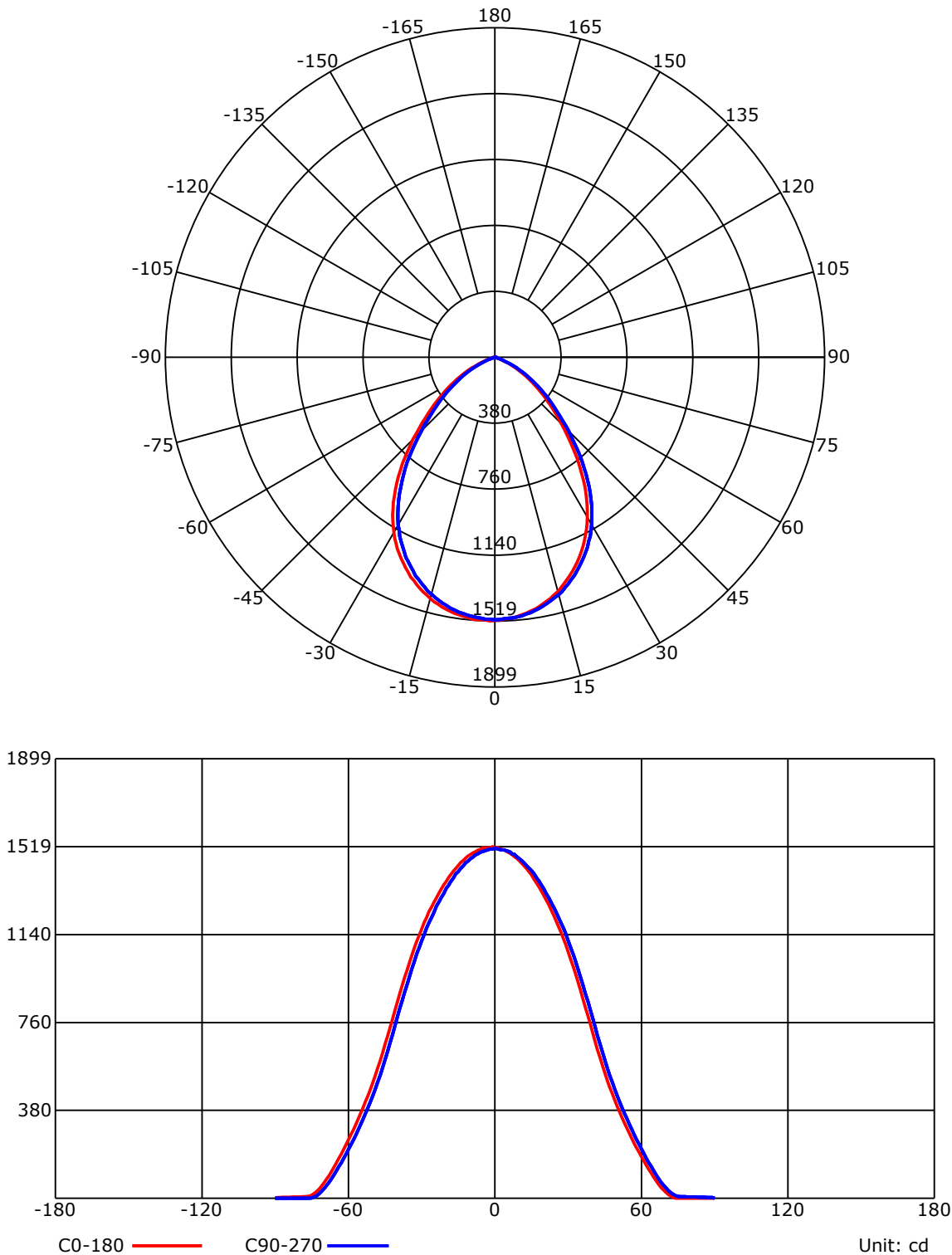
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

Report No.:

Test Time: 2024/12/24 18:57:53

Luminous Intensity Distribution Curve



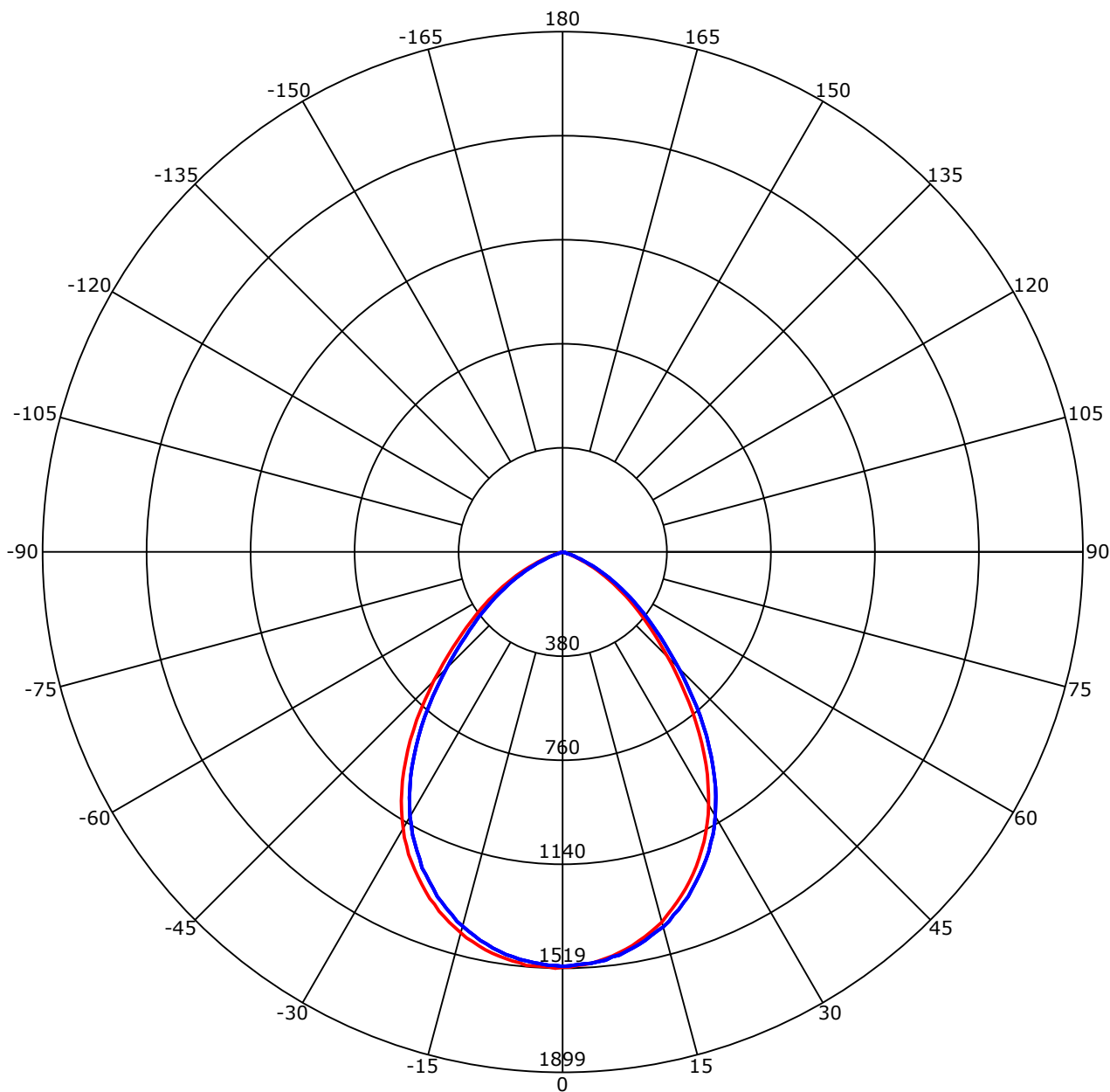
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Test Speed: High
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

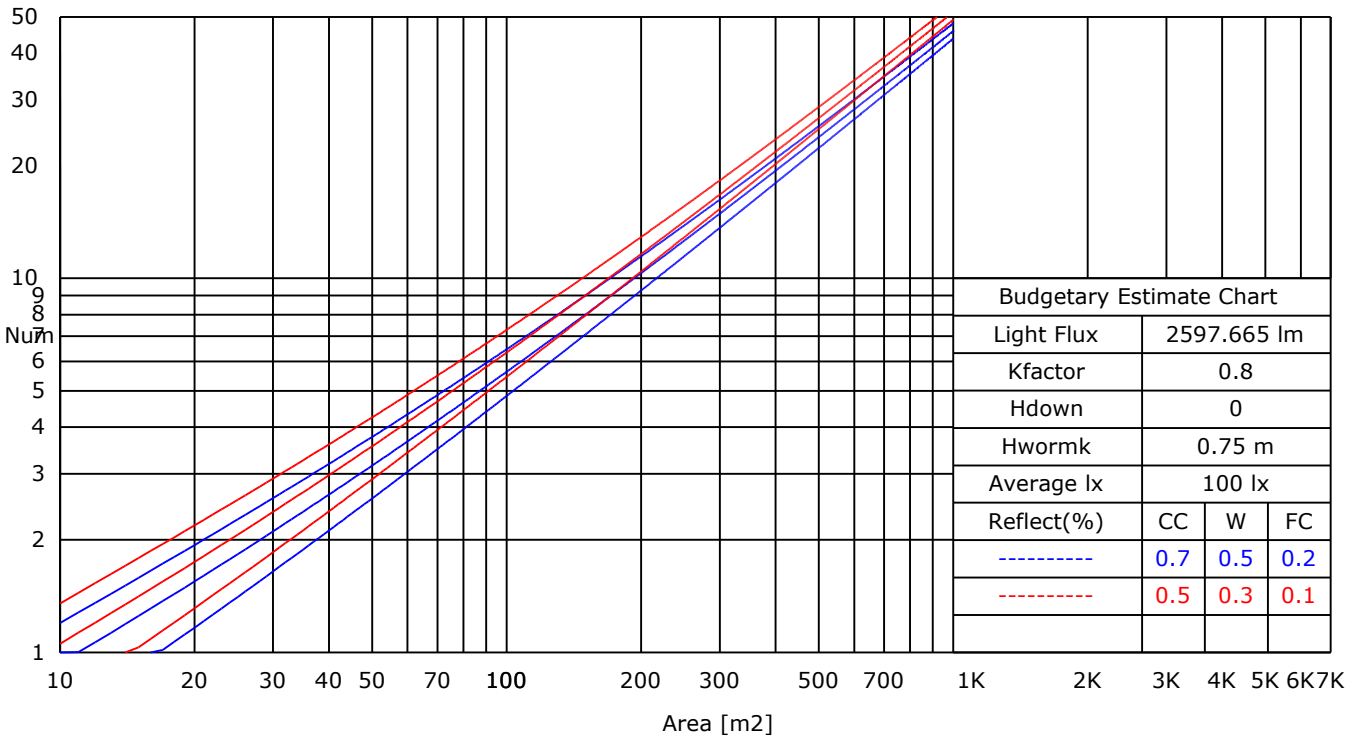
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UTILIZATION FACTORS TABLE

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	1.00	0.99	0.97	0.99	0.97	0.96	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.81	0.78	0.75	0.70
4	0.86	0.84	0.83	0.86	0.83	0.81	0.83	0.80	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
5	0.80	0.78	0.77	0.80	0.77	0.75	0.78	0.75	0.72	0.76	0.71	0.68	0.73	0.68	0.64	0.60
6	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.56
7	0.70	0.68	0.67	0.70	0.67	0.66	0.69	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.56	0.53
8	0.66	0.64	0.63	0.66	0.63	0.62	0.65	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.49
9	0.62	0.60	0.59	0.62	0.60	0.58	0.61	0.58	0.55	0.60	0.56	0.53	0.59	0.54	0.50	0.47
10	0.59	0.57	0.56	0.59	0.56	0.55	0.58	0.55	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.44

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



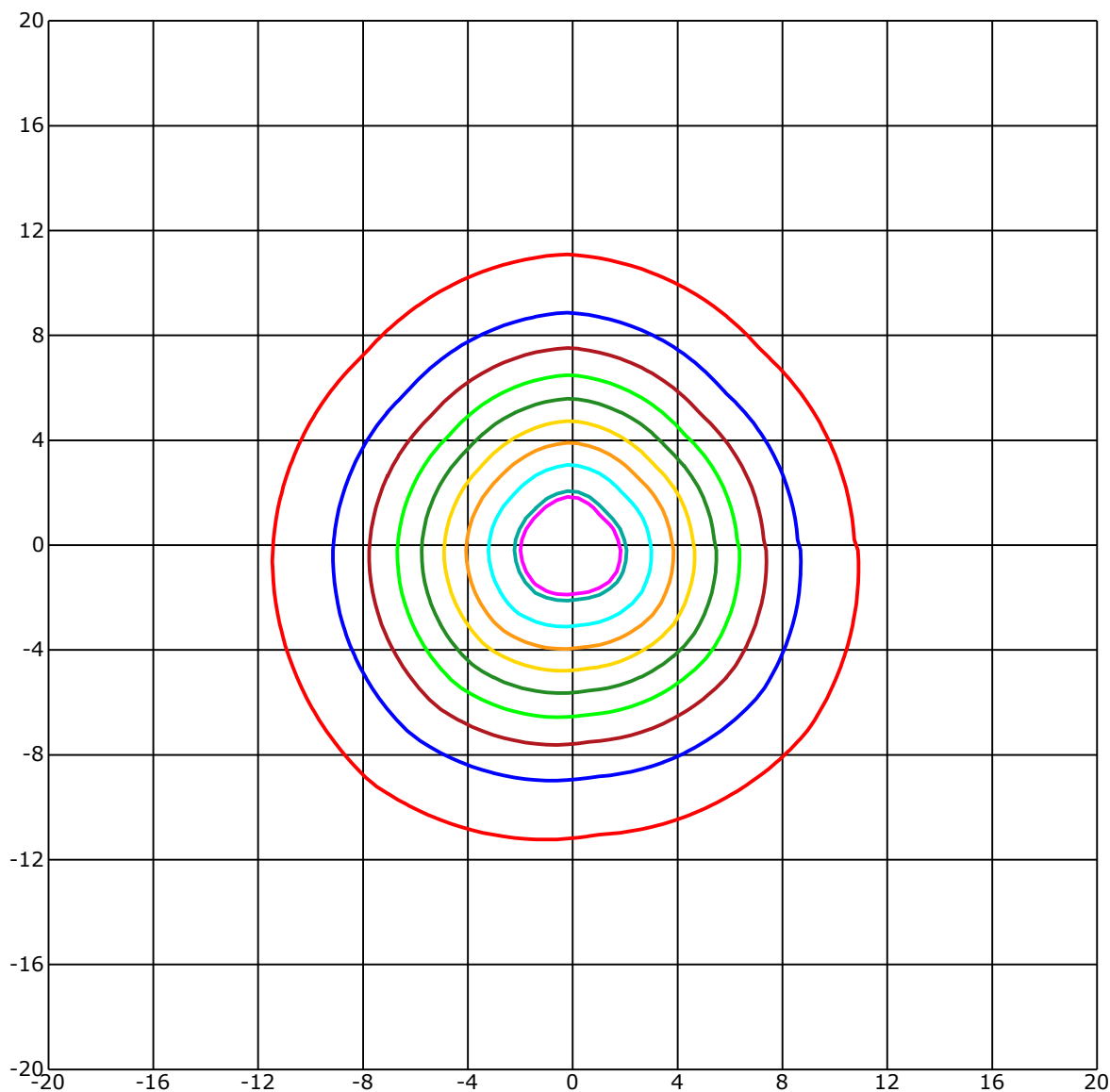
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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ISOLX DIAGRAM



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

13.973(92%Emax)	7.594(50%Emax)
13.669(90%Emax)	6.075(40%Emax)
12.15(80%Emax)	4.556(30%Emax)
10.631(70%Emax)	3.038(20%Emax)
9.113(60%Emax)	1.519(10%Emax)

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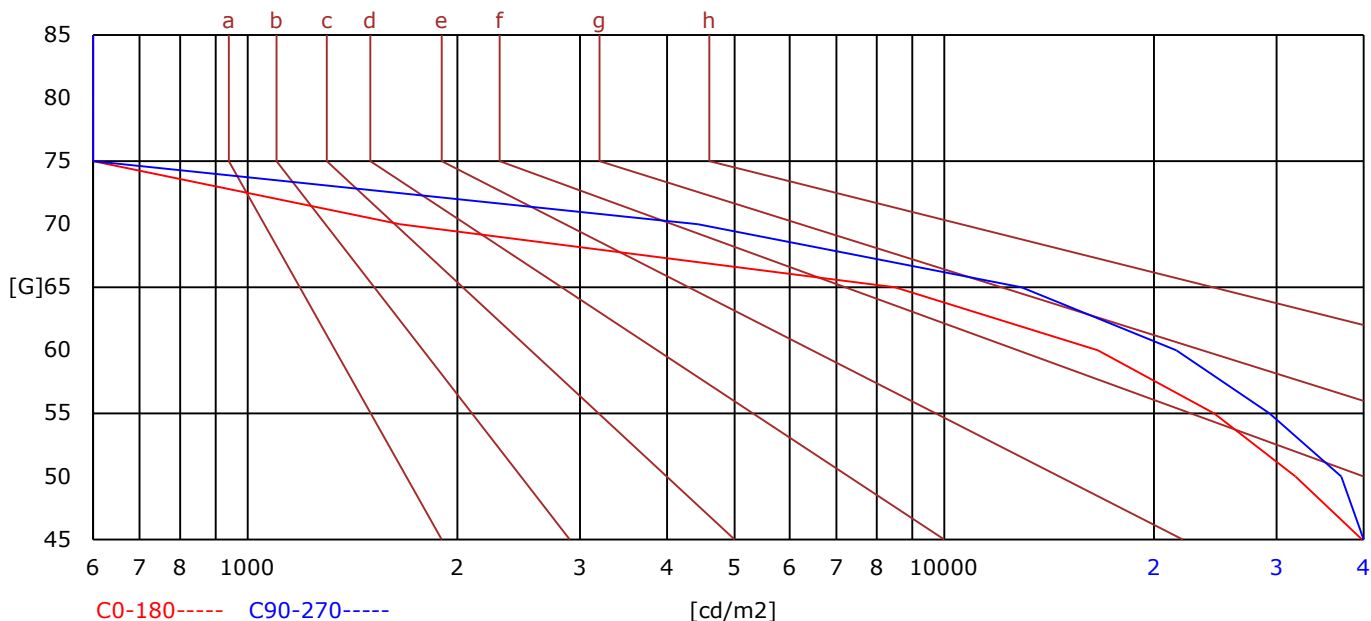
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	39790	31929	24395	16619	8493	1653	0	0	0
C90	45867	37133	29289	21536	12908	4429	0	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



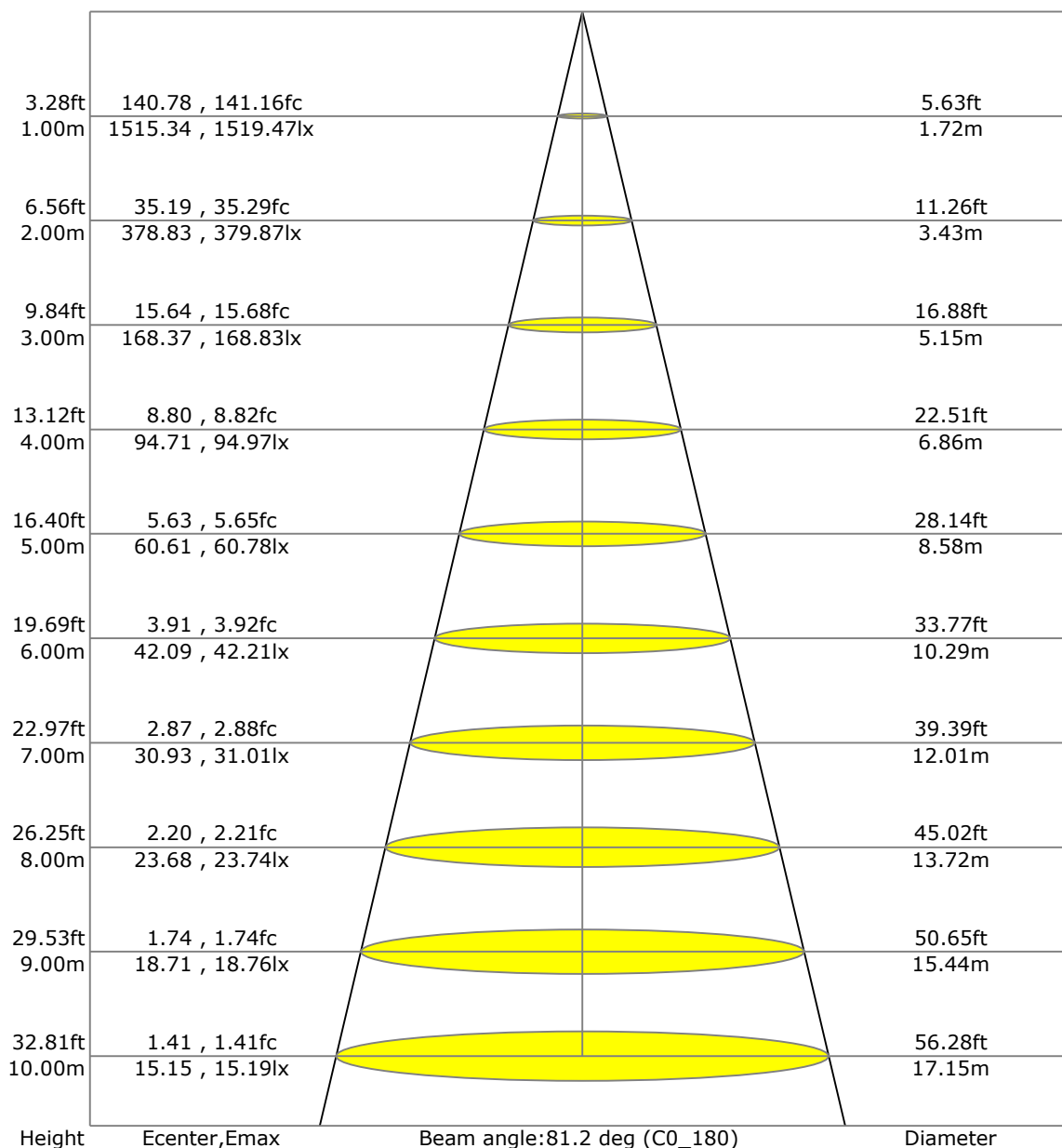
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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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: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.81 m
 Remarks:

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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	15.99	16.05	16.19	16.24	16.48	16.21	16.27	16.41	16.46	16.70
3H	15.96	16.02	16.17	16.22	16.46	16.18	16.24	16.38	16.43	16.68
4H	15.94	16.00	16.15	16.20	16.44	16.15	16.21	16.37	16.41	16.66
6H	15.92	15.97	16.13	16.17	16.43	16.13	16.19	16.35	16.39	16.64
8H	15.90	15.96	16.12	16.16	16.42	16.12	16.18	16.34	16.38	16.63
12H	15.89	15.95	16.11	16.15	16.41	16.10	16.16	16.33	16.37	16.62
4H 2H	16.14	16.20	16.36	16.40	16.65	16.46	16.52	16.67	16.72	16.96
3H	16.11	16.17	16.33	16.37	16.63	16.42	16.48	16.64	16.68	16.94
4H	16.08	16.14	16.31	16.35	16.61	16.39	16.44	16.62	16.66	16.92
6H	16.05	16.10	16.29	16.32	16.59	16.36	16.41	16.60	16.63	16.90
8H	16.03	16.08	16.28	16.31	16.58	16.34	16.39	16.59	16.62	16.88
12H	16.02	16.07	16.27	16.30	16.57	16.33	16.37	16.57	16.60	16.87
8H 4H	16.11	16.17	16.33	16.37	16.62	16.43	16.48	16.64	16.69	16.94
6H	16.00	16.04	16.25	16.28	16.55	16.31	16.36	16.57	16.60	16.87
8H	15.98	16.02	16.24	16.27	16.54	16.29	16.34	16.56	16.58	16.86
12H	15.96	16.00	16.23	16.25	16.53	16.27	16.31	16.54	16.57	16.85
12H 4H	16.02	16.06	16.27	16.30	16.57	16.34	16.38	16.58	16.61	16.88
6H	15.98	16.02	16.24	16.27	16.54	16.30	16.34	16.56	16.59	16.86

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

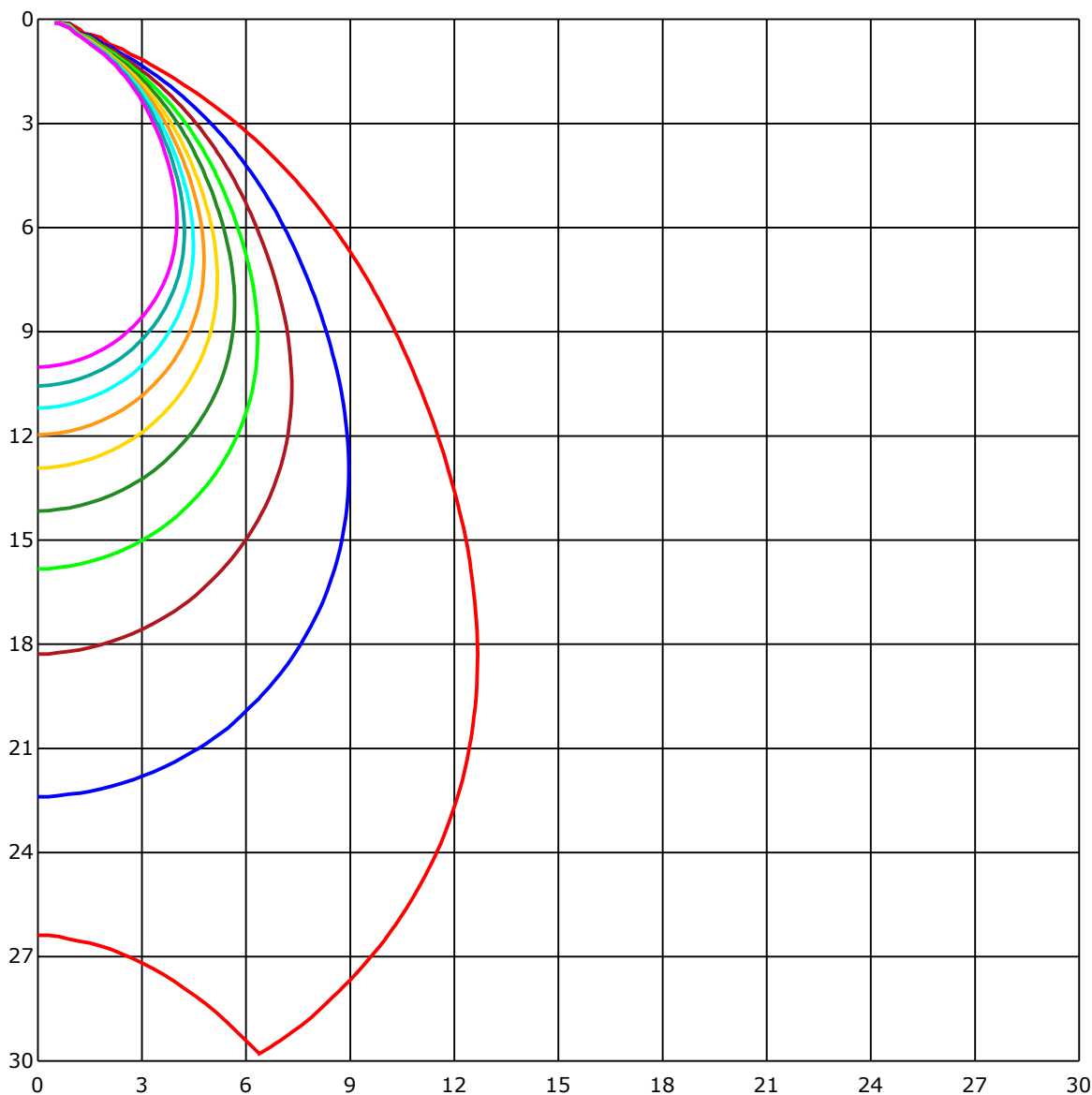
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SPACE ISOLX DIAGRAM



15.114	7.557
13.603	6.046
12.091	4.534
10.58	3.023
9.069	1.511

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1515.34	1501.19	1512.14	1514.04	1515.34	1501.19	1512.14	1514.04	1515.34	
G1	1515.71	1501.98	1510.7	1510.19	1519.47	1505.0	1509.73	1511.72	1515.71	
G2	1509.82	1494.38	1507.36	1508.66	1515.29	1509.31	1509.59	1515.06	1509.82	
G3	1508.48	1491.22	1505.32	1504.3	1514.6	1513.44	1505.37	1513.3	1508.48	
G4	1504.35	1482.88	1504.67	1500.13	1514.04	1509.54	1502.54	1513.95	1504.35	
G5	1498.13	1478.98	1501.01	1493.96	1514.83	1507.92	1498.69	1508.34	1498.13	
G6	1492.11	1467.71	1497.67	1487.93	1507.27	1509.82	1495.12	1505.14	1492.11	
G7	1485.29	1458.58	1489.09	1481.16	1504.3	1507.55	1488.67	1499.99	1485.29	
G8	1476.48	1447.49	1485.89	1474.44	1498.04	1500.17	1483.39	1498.18	1476.48	
G9	1468.55	1438.87	1476.2	1467.76	1493.31	1497.39	1475.18	1490.11	1468.55	
G10	1458.71	1425.0	1468.04	1456.02	1486.54	1492.66	1468.04	1484.41	1458.71	
G11	1446.89	1414.38	1458.95	1444.43	1478.8	1487.1	1457.83	1475.41	1446.89	
G12	1436.18	1398.61	1448.88	1434.92	1470.26	1480.56	1448.93	1468.96	1436.18	
G13	1424.58	1387.11	1436.87	1421.43	1459.6	1473.0	1436.87	1455.75	1424.58	
G14	1410.85	1370.74	1426.02	1408.16	1451.34	1466.92	1425.97	1446.24	1410.85	
G15	1398.33	1353.44	1416.28	1393.97	1439.0	1456.44	1413.27	1433.81	1398.33	
G16	1379.92	1335.17	1403.67	1378.72	1425.93	1444.2	1402.6	1425.65	1379.92	
G17	1362.53	1319.73	1385.39	1363.6	1414.1	1435.25	1383.86	1408.35	1362.53	
G18	1345.83	1300.39	1371.16	1346.53	1400.28	1421.34	1370.09	1397.27	1345.83	
G19	1327.75	1281.37	1353.9	1328.81	1386.18	1412.52	1352.93	1379.18	1327.75	
G20	1309.66	1256.93	1338.55	1312.12	1368.56	1394.3	1338.83	1368.1	1309.66	
G21	1289.67	1237.31	1317.59	1289.91	1355.2	1380.57	1317.08	1346.53	1289.67	
G22	1268.9	1213.94	1298.81	1272.14	1336.14	1365.36	1299.04	1329.32	1268.9	
G23	1246.45	1191.4	1278.91	1247.19	1317.13	1349.41	1279.33	1311.98	1246.45	
G24	1223.87	1164.92	1258.97	1227.53	1298.11	1331.32	1262.27	1293.66	1223.87	
G25	1200.4	1140.16	1238.24	1202.72	1279.15	1313.23	1236.25	1271.26	1200.4	
G26	1176.33	1113.49	1215.75	1178.65	1258.42	1295.66	1213.66	1253.18	1176.33	
G27	1149.94	1085.53	1190.15	1153.37	1239.31	1278.78	1191.12	1229.76	1149.94	
G28	1122.26	1055.15	1167.98	1127.4	1213.15	1255.73	1168.21	1207.82	1122.26	
G29	1095.59	1026.54	1143.03	1098.6	1192.14	1235.27	1139.69	1182.87	1095.59	
G30	1064.8	991.75	1113.49	1070.04	1165.11	1211.16	1114.65	1156.43	1064.8	
G31	1034.23	958.69	1083.81	1039.06	1138.35	1187.92	1085.43	1133.11	1034.23	
G32	1001.59	924.79	1053.99	1007.75	1110.52	1161.91	1056.77	1102.59	1001.59	
G33	969.82	891.67	1023.66	974.83	1082.37	1137.24	1023.8	1072.4	969.82	
G34	934.8	856.66	990.5	942.41	1051.3	1108.95	993.14	1041.93	934.8	
G35	900.39	819.19	957.16	906.65	1020.04	1082.79	959.43	1012.11	900.39	
G36	863.99	782.6	923.72	870.94	987.12	1049.58	924.55	978.95	863.99	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	826.89	747.44	886.99	834.49	953.12	1019.12	889.31	943.15	826.89	
G38	789.92	709.46	852.3	799.43	918.9	984.94	853.92	909.62	789.92	
G39	755.19	672.5	815.11	762.28	883.97	954.98	820.25	873.49	755.19	
G40	716.7	636.56	780.32	725.51	847.89	917.64	783.71	839.22	716.7	
G41	679.13	603.96	743.55	685.9	812.32	882.68	745.12	802.35	679.13	
G42	642.45	569.17	703.11	648.71	774.43	847.62	708.21	765.58	642.45	
G43	607.71	538.01	666.38	613.0	735.25	812.23	669.72	727.83	607.71	
G44	574.65	505.45	632.15	580.81	699.31	774.34	633.54	690.63	574.65	
G45	542.04	475.49	597.83	548.12	667.21	736.27	599.55	653.81	542.04	
G46	510.0	448.13	564.3	516.07	629.23	698.24	566.86	620.37	510.0	
G47	480.73	421.47	531.75	484.86	596.03	664.34	533.7	585.87	480.73	
G48	452.31	395.63	502.3	456.16	562.68	628.77	501.84	552.85	452.31	
G49	425.04	370.82	472.39	429.12	530.54	595.05	471.88	520.25	425.04	
G50	399.21	346.85	445.07	403.38	500.54	561.99	444.38	490.71	399.21	
G51	374.86	324.31	418.87	378.43	472.06	532.03	418.87	462.05	374.86	
G52	350.28	301.17	393.45	354.17	444.93	500.72	392.76	435.94	350.28	
G53	327.18	278.95	368.6	330.2	417.9	473.31	366.97	408.99	327.18	
G54	303.49	257.34	344.44	307.01	392.25	444.93	342.95	384.27	303.49	
G55	281.09	236.47	320.78	283.91	367.86	418.68	319.35	359.14	281.09	
G56	259.75	216.25	298.57	262.54	343.6	392.16	296.95	335.07	259.75	
G57	238.42	196.73	276.17	241.71	320.09	367.67	273.57	310.81	238.42	
G58	218.66	177.67	254.37	221.07	296.85	342.9	252.52	288.64	218.66	
G59	198.49	158.79	232.9	201.13	275.01	320.09	231.46	266.15	198.49	
G60	178.92	140.43	212.63	181.98	253.03	296.53	211.29	245.38	178.92	
G61	160.65	122.9	192.69	162.32	232.02	274.04	191.02	223.63	160.65	
G62	142.42	106.29	173.08	144.23	211.2	252.33	172.01	202.9	142.42	
G63	125.17	90.43	154.2	126.28	190.79	231.37	153.5	183.51	125.17	
G64	107.87	74.94	136.53	109.31	171.31	211.01	135.6	164.68	107.87	
G65	91.31	60.66	118.4	92.2	152.3	191.02	117.05	146.18	91.31	
G66	75.73	47.26	101.38	76.52	133.42	171.08	100.27	127.77	75.73	
G67	61.36	35.43	85.24	61.87	115.11	152.44	83.76	110.38	61.36	
G68	47.81	25.41	70.58	48.18	97.62	133.1	68.73	93.87	47.81	
G69	36.03	16.83	57.14	35.99	81.67	115.15	54.12	77.91	36.03	
G70	25.41	9.55	44.71	25.6	66.36	97.53	41.14	63.4	25.41	
G71	16.74	4.17	33.9	16.46	52.68	81.71	29.91	50.55	16.74	
G72	9.65	0.28	24.81	9.18	40.16	66.55	20.31	38.54	9.65	
G73	4.03	0.0	17.62	3.71	29.63	52.96	12.2	28.34	4.03	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/12/24 18:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks: