

Report No.:

Test Time: 2023/7/15 16:30:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL141CT200-35W
Lamp Type: -
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

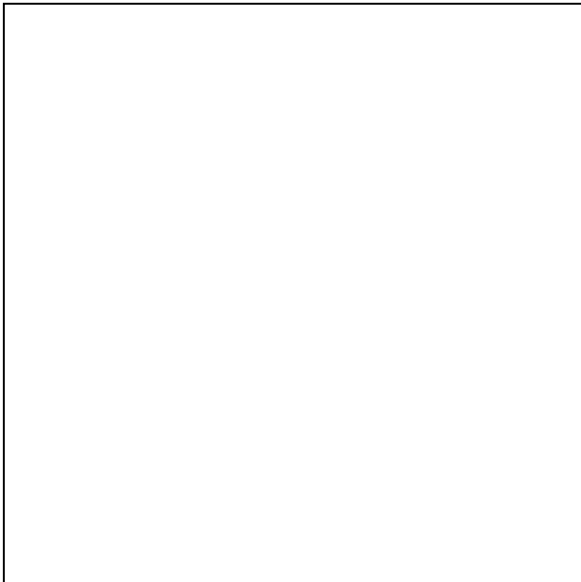
Voltage(V): 219.70 V
Current(A): 0.1530 A
Power(W): 33.01 W
Power Factor: 0.9750
Lamp Luminous Flux: 3494.40

Photometric Results

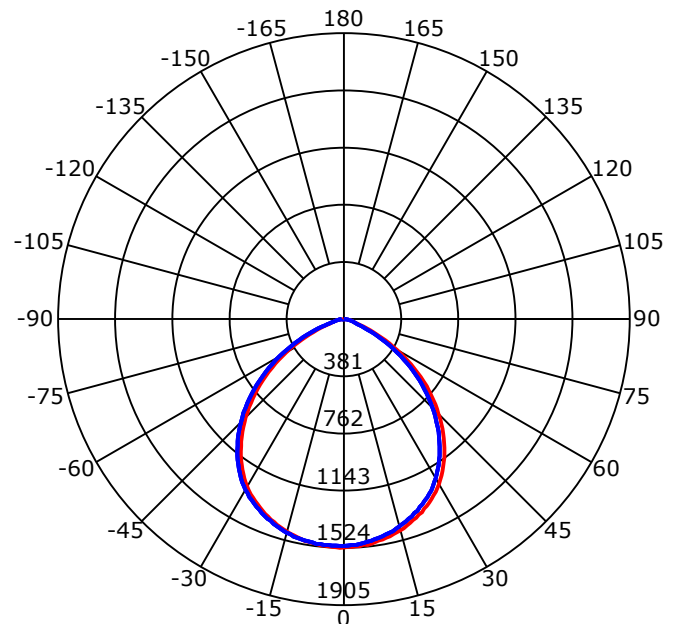
CIE Class: Direct
Luminaire Luminous Flux: 3494.402 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.86 lm/W
Beam Angle(50%) C0-180,C90-270: 99.6,99.6
Field Angle(10%) C0-180,C90-270: 138.1,138.1
S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 1523.75 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1521.31 cd
Effective Luminous Flux: 3377.90 lm
ERP(ϕ use)(120deg): 3118.17 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 99.6 deg,99.6 deg

C0-180 — C90-270 —

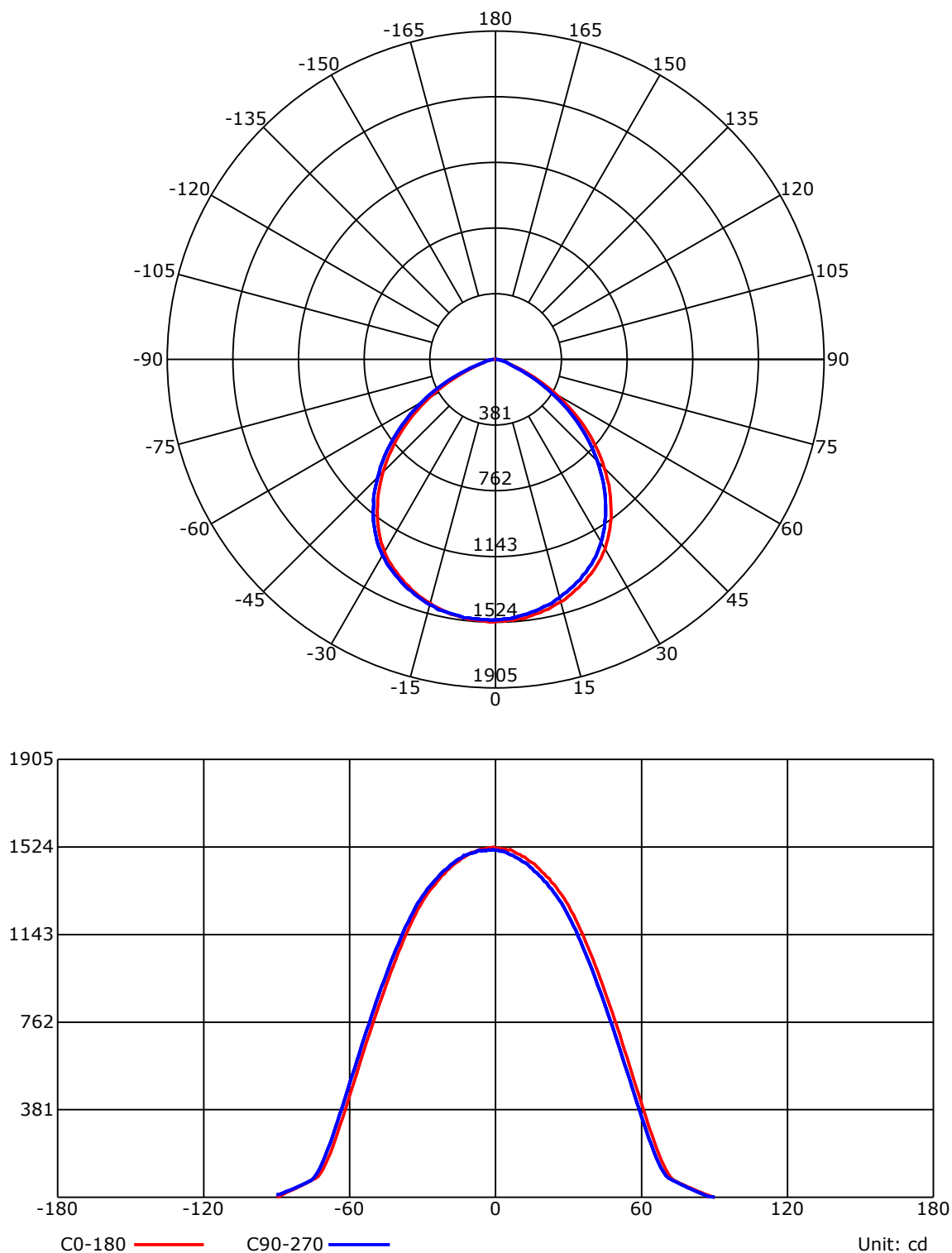
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/15 16:30:11

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1800 Goniophotometer
Humidity: 60
Test Distance: 6.66 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: 2023/7/15 16:30:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

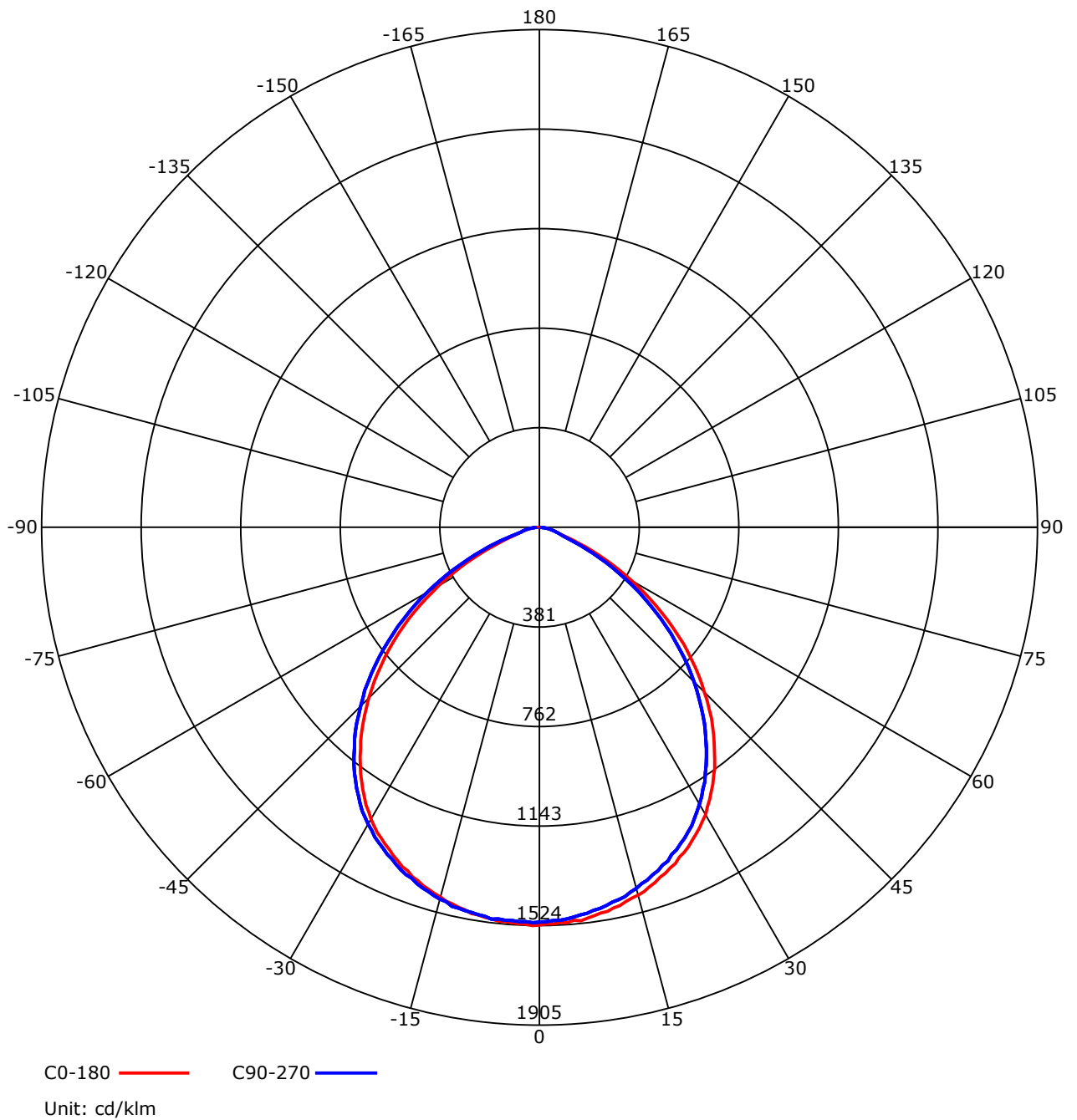
Test Distance: 6.66 m

Remarks:

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Luminous Intensity Distribution Curve



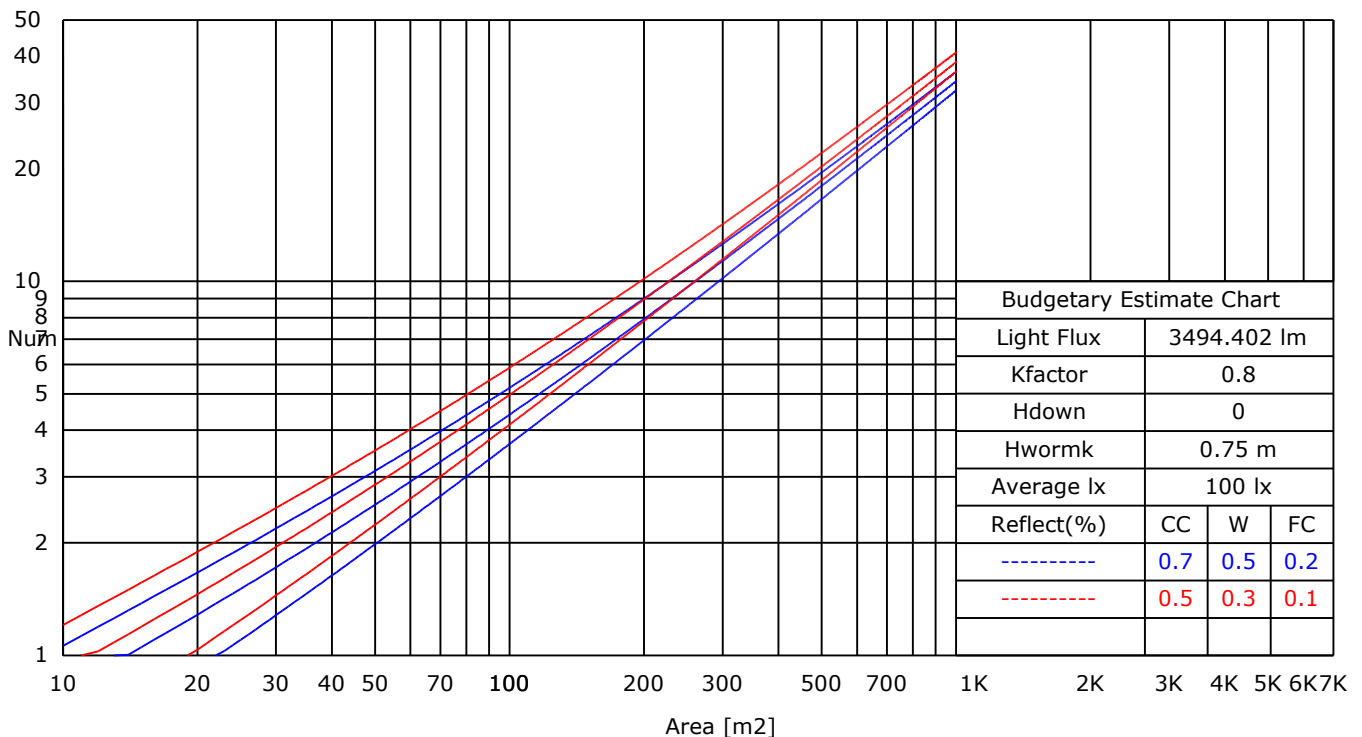
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 Humidity: 60
 Test Distance: 6.66 m
 Remarks:

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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	0.98	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.89	0.90	0.87	0.85	0.85	0.82	0.79	0.74
3	0.90	0.88	0.86	0.89	0.86	0.84	0.86	0.83	0.81	0.83	0.80	0.77	0.79	0.75	0.72	0.67
4	0.82	0.80	0.78	0.81	0.79	0.77	0.80	0.76	0.73	0.77	0.73	0.69	0.74	0.69	0.65	0.61
5	0.75	0.73	0.71	0.75	0.72	0.70	0.73	0.70	0.67	0.71	0.67	0.63	0.69	0.64	0.60	0.56
6	0.69	0.67	0.66	0.69	0.66	0.64	0.68	0.64	0.61	0.66	0.62	0.58	0.64	0.59	0.55	0.51
7	0.64	0.62	0.61	0.64	0.61	0.59	0.63	0.59	0.57	0.62	0.57	0.54	0.60	0.55	0.51	0.47
8	0.59	0.57	0.56	0.59	0.57	0.55	0.59	0.55	0.52	0.58	0.53	0.50	0.57	0.51	0.47	0.44
9	0.55	0.53	0.52	0.55	0.53	0.51	0.55	0.51	0.49	0.55	0.50	0.47	0.54	0.48	0.44	0.41
10	0.52	0.50	0.49	0.52	0.49	0.48	0.52	0.48	0.46	0.52	0.47	0.44	0.51	0.45	0.41	0.38

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



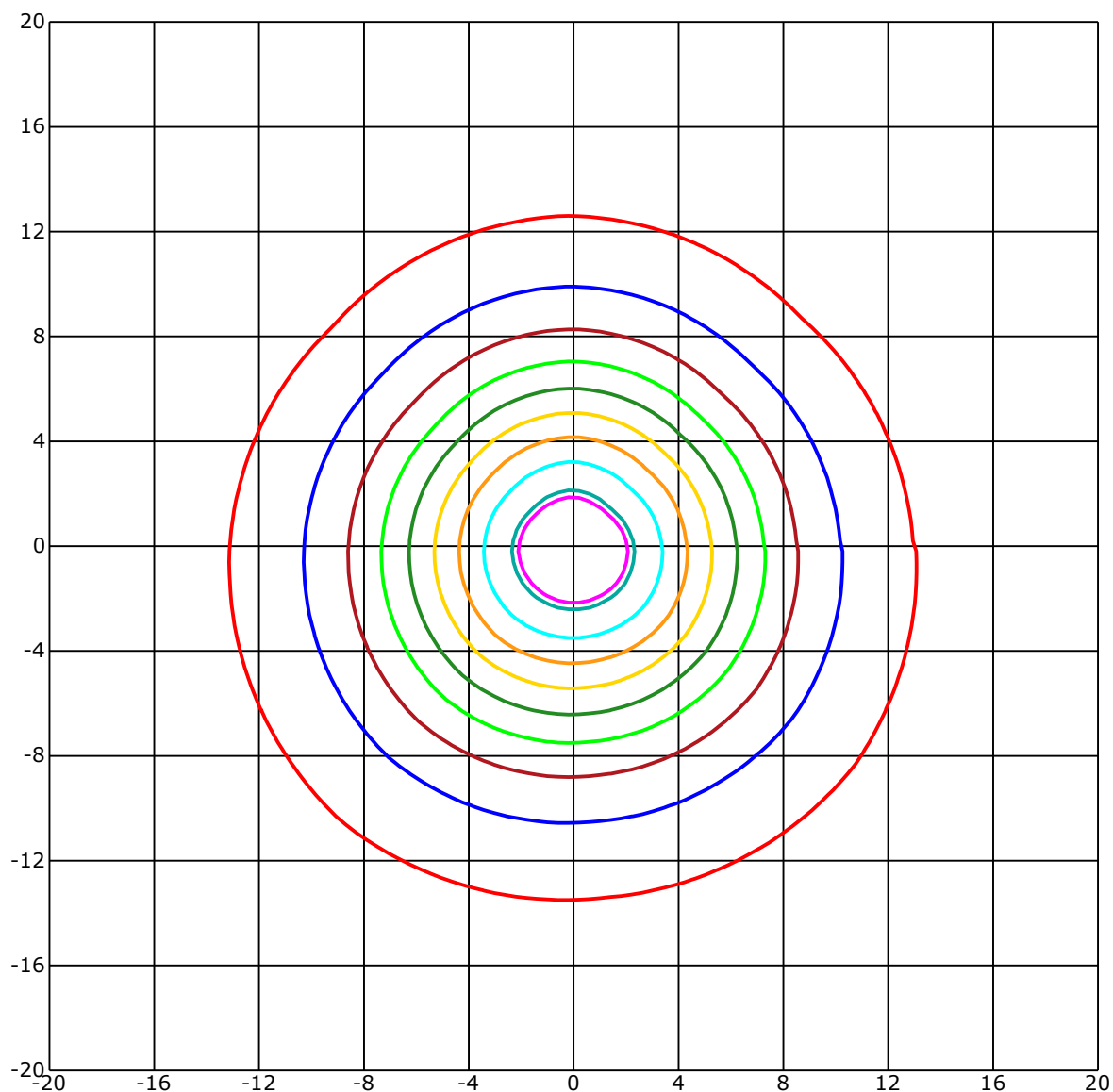
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2023/7/15 16:30:11

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



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

14.012(1%E _{max})	7.615(0%E _{max})
13.707(1%E _{max})	6.092(0%E _{max})
12.184(1%E _{max})	4.569(0%E _{max})
10.661(1%E _{max})	3.046(0%E _{max})
9.138(1%E _{max})	1.523(0%E _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/15 16:30:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

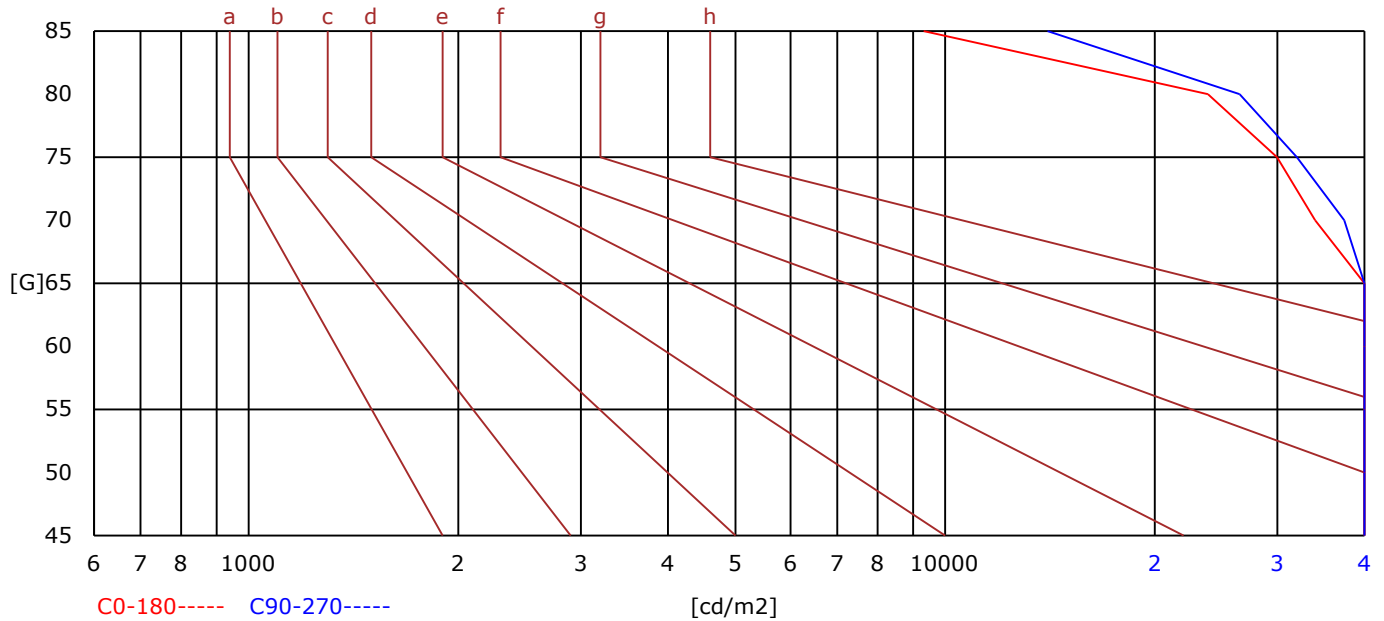
Humidity: 60

Test Distance: 6.66 m

Remarks:

BRIGHT LIMIT DIAGRAM

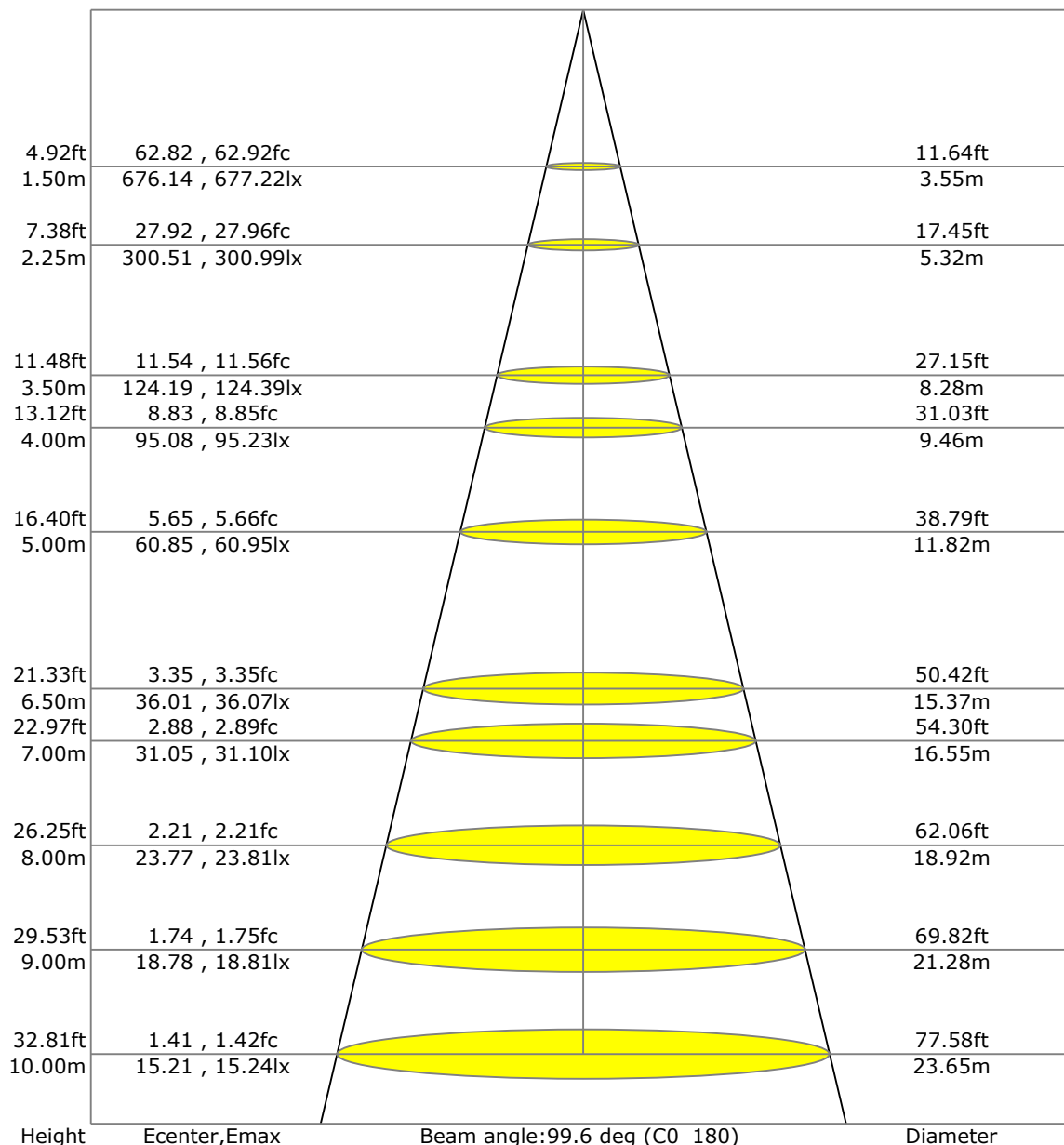
C/G	45	50	55	60	65	70	75	80	85
C0	174453	153528	126942	95184	59790	33979	29973	23830	9316
C90	179766	159676	133918	102775	67127	37412	31976	26477	14030
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	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



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Operators: QC01

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G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.66 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	24.06	24.13	24.26	24.32	24.56	23.76	23.83	23.96	24.01	24.26
3H	24.04	24.11	24.25	24.30	24.55	23.74	23.81	23.95	24.00	24.25
4H	24.02	24.09	24.23	24.28	24.53	23.72	23.79	23.93	23.98	24.23
6H	23.99	24.06	24.21	24.26	24.51	23.69	23.76	23.91	23.96	24.21
8H	23.98	24.04	24.20	24.25	24.50	23.68	23.74	23.90	23.95	24.20
12H	23.96	24.03	24.19	24.23	24.49	23.66	23.73	23.89	23.93	24.19
4H 2H	24.70	24.76	24.91	24.96	25.21	24.29	24.36	24.50	24.55	24.80
3H	24.70	24.76	24.92	24.97	25.22	24.31	24.37	24.53	24.57	24.83
4H	24.69	24.74	24.92	24.96	25.22	24.29	24.35	24.52	24.56	24.82
6H	24.66	24.71	24.90	24.94	25.20	24.27	24.32	24.51	24.54	24.81
8H	24.64	24.70	24.89	24.92	25.19	24.25	24.30	24.49	24.53	24.80
12H	24.62	24.67	24.87	24.91	25.18	24.23	24.28	24.48	24.51	24.78
8H 4H	24.81	24.88	25.03	25.08	25.33	24.40	24.46	24.62	24.67	24.92
6H	24.83	24.87	25.08	25.11	25.38	24.43	24.47	24.68	24.71	24.98
8H	24.81	24.85	25.07	25.10	25.37	24.41	24.45	24.67	24.70	24.98
12H	24.79	24.83	25.06	25.08	25.36	24.39	24.43	24.66	24.68	24.96
12H 4H	24.87	24.92	25.12	25.16	25.43	24.46	24.51	24.71	24.74	25.01
6H	24.86	24.90	25.12	25.15	25.42	24.45	24.49	24.71	24.74	25.01

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Test Distance: 6.66 m
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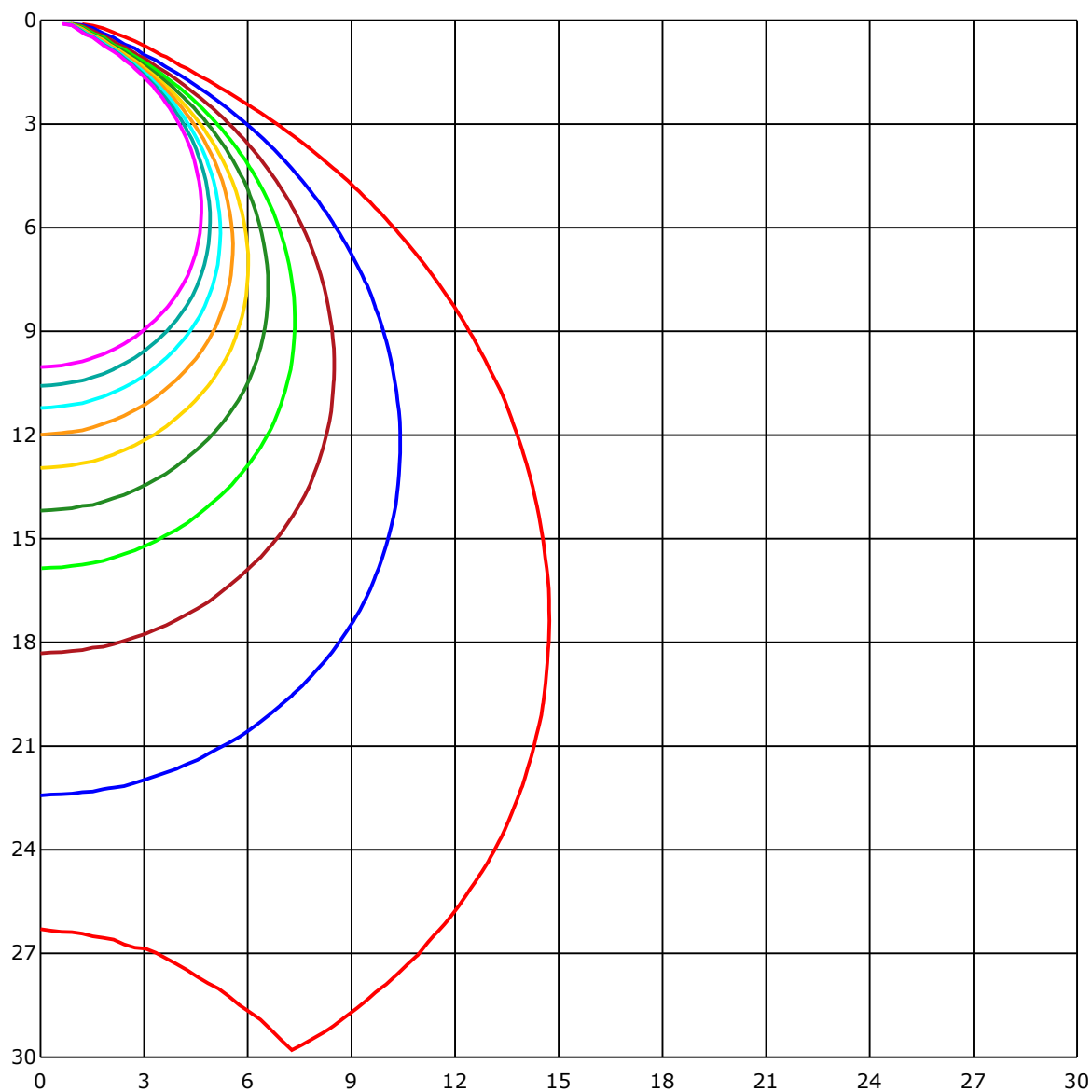
ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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Remarks:

SPACE ISOLX DIAGRAM



Unit of illumination:lx



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G Range: 0 - 90 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1521.31	1505.6	1510.17	1511.11	1521.31	1505.6	1510.17	1511.11	1521.31	
G1	1517.49	1503.03	1508.48	1510.35	1523.75	1505.28	1512.17	1510.42	1517.49	
G2	1518.56	1496.71	1505.16	1506.85	1519.93	1506.54	1509.54	1516.61	1518.56	
G3	1514.61	1496.46	1505.6	1503.97	1518.99	1507.47	1510.6	1513.61	1514.61	
G4	1515.74	1487.19	1501.46	1501.71	1516.37	1509.04	1507.91	1513.42	1515.74	
G5	1508.73	1488.94	1496.46	1495.27	1514.3	1509.98	1509.29	1511.29	1508.73	
G6	1513.23	1479.8	1490.88	1491.7	1515.05	1505.85	1506.85	1508.79	1513.23	
G7	1506.22	1476.3	1488.13	1485.75	1509.85	1505.53	1510.17	1508.1	1506.22	
G8	1500.65	1465.9	1479.61	1483.5	1506.28	1503.72	1502.09	1505.72	1500.65	
G9	1493.89	1461.65	1475.92	1477.36	1501.03	1503.72	1500.09	1504.03	1493.89	
G10	1491.7	1456.57	1469.66	1468.78	1500.78	1497.52	1496.71	1499.65	1491.7	
G11	1482.87	1449.0	1460.64	1461.77	1491.2	1493.07	1493.83	1496.83	1482.87	
G12	1479.61	1439.11	1456.39	1455.2	1486.31	1490.26	1489.44	1491.38	1479.61	
G13	1469.53	1428.15	1450.63	1443.68	1479.17	1486.31	1488.25	1486.19	1469.53	
G14	1462.15	1422.95	1438.04	1437.79	1474.42	1479.3	1476.23	1481.8	1462.15	
G15	1456.26	1413.19	1430.22	1428.59	1464.02	1478.24	1473.04	1479.11	1456.26	
G16	1449.81	1399.91	1417.88	1419.95	1457.39	1468.16	1465.96	1473.54	1449.81	
G17	1437.79	1388.96	1410.81	1408.43	1449.0	1467.97	1456.7	1459.95	1437.79	
G18	1428.27	1376.81	1398.04	1397.6	1440.92	1459.02	1450.0	1452.32	1428.27	
G19	1415.63	1365.67	1389.96	1382.95	1429.4	1448.18	1441.36	1446.37	1415.63	
G20	1408.05	1353.33	1374.81	1374.87	1422.58	1439.92	1429.03	1436.54	1408.05	
G21	1394.97	1341.5	1368.3	1359.47	1407.8	1434.47	1423.7	1426.21	1394.97	
G22	1387.2	1328.23	1349.51	1348.14	1400.54	1424.08	1413.62	1421.39	1387.2	
G23	1370.05	1314.39	1340.25	1334.68	1385.89	1411.0	1402.1	1407.61	1370.05	
G24	1361.03	1300.3	1324.53	1319.96	1374.43	1404.73	1388.71	1395.59	1361.03	
G25	1347.7	1287.78	1312.45	1305.13	1359.59	1391.96	1379.19	1385.2	1347.7	
G26	1331.98	1269.31	1296.05	1291.16	1348.39	1380.51	1365.85	1373.31	1331.98	
G27	1317.4	1251.22	1281.08	1273.76	1334.68	1368.48	1353.58	1361.79	1317.4	
G28	1303.0	1229.62	1261.93	1255.41	1321.72	1354.96	1341.94	1349.08	1303.0	
G29	1285.4	1214.16	1242.89	1233.19	1305.25	1344.69	1324.35	1333.49	1285.4	
G30	1269.38	1190.8	1223.11	1213.09	1288.53	1328.17	1311.64	1322.15	1269.38	
G31	1246.59	1167.76	1203.14	1191.12	1269.44	1315.77	1294.67	1305.56	1246.59	
G32	1228.49	1145.66	1180.03	1167.76	1252.22	1299.87	1280.21	1287.41	1228.49	
G33	1205.7	1121.18	1161.06	1146.85	1229.43	1286.16	1260.3	1270.69	1205.7	
G34	1184.48	1098.27	1133.45	1122.56	1209.46	1264.05	1238.64	1252.41	1184.48	
G35	1161.13	1074.42	1111.73	1098.21	1186.23	1248.34	1219.6	1232.06	1161.13	
G36	1140.34	1045.99	1085.06	1071.97	1164.82	1225.24	1196.56	1213.72	1140.34	

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C Interval: 45.0 Deg

Test Speed: High

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Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1113.23	1020.76	1060.39	1044.49	1139.03	1206.08	1176.78	1188.11	1113.23	
G38	1086.81	994.15	1033.72	1018.69	1115.42	1183.35	1152.8	1167.26	1086.81	
G39	1060.95	966.79	1007.8	990.9	1087.75	1159.75	1127.88	1143.66	1060.95	
G40	1036.35	936.11	981.57	963.79	1065.21	1137.21	1100.52	1118.55	1036.35	
G41	1008.05	908.94	953.14	933.73	1037.29	1113.61	1078.99	1091.95	1008.05	
G42	983.01	879.52	923.03	906.63	1009.05	1086.69	1053.25	1068.66	983.01	
G43	950.14	850.09	893.6	874.26	981.25	1060.64	1025.39	1040.73	950.14	
G44	922.97	820.79	865.37	846.08	951.39	1032.66	995.9	1015.31	922.97	
G45	891.41	789.49	835.75	813.53	924.22	1005.73	967.61	987.2	891.41	
G46	862.42	758.68	804.2	785.17	893.04	980.06	938.68	958.65	862.42	
G47	833.25	729.26	774.15	754.05	864.37	952.02	915.01	928.91	833.25	
G48	801.82	695.7	742.91	723.12	833.12	921.46	880.77	901.99	801.82	
G49	769.7	664.21	710.29	689.38	801.26	892.54	852.59	869.44	769.7	
G50	739.46	631.59	678.73	656.88	771.39	862.99	819.73	840.82	739.46	
G51	710.98	598.53	647.18	622.39	739.34	834.0	789.92	810.27	710.98	
G52	673.54	565.66	614.31	590.2	708.97	802.51	756.12	779.47	673.54	
G53	640.54	534.36	581.25	557.96	676.04	771.96	725.25	746.79	640.54	
G54	607.92	499.74	547.44	525.53	642.48	739.78	693.32	716.92	607.92	
G55	573.3	465.99	515.89	491.6	610.24	707.53	661.95	683.68	573.3	
G56	540.37	433.94	482.14	458.04	576.93	673.47	626.71	651.62	540.37	
G57	506.19	400.88	449.21	425.86	542.62	642.98	595.15	618.88	506.19	
G58	473.57	368.64	416.47	393.12	510.07	608.99	561.47	585.13	473.57	
G59	439.88	337.33	382.28	360.62	475.19	574.68	529.04	551.2	439.88	
G60	406.51	304.59	349.48	328.88	442.2	540.81	496.29	517.77	406.51	
G61	374.21	274.29	318.8	297.51	408.45	508.0	462.48	483.58	374.21	
G62	342.59	243.23	287.81	265.65	375.77	474.76	428.3	451.53	342.59	
G63	308.34	214.56	257.51	236.09	343.91	441.82	395.24	417.66	308.34	
G64	278.17	187.32	228.33	208.17	312.1	408.33	363.13	385.66	278.17	
G65	247.61	161.72	199.91	181.56	278.98	374.9	329.57	351.86	247.61	
G66	218.5	138.55	173.3	156.39	248.68	342.34	298.01	320.43	218.5	
G67	191.08	117.7	149.7	133.29	219.63	309.47	266.71	288.0	191.08	
G68	164.47	98.73	128.53	112.94	191.83	277.92	236.09	257.38	164.47	
G69	141.18	84.15	109.25	95.6	166.1	247.99	208.3	227.96	141.18	
G70	120.14	74.38	94.04	81.89	142.81	217.88	180.81	199.72	120.14	
G71	101.24	69.56	84.71	73.13	121.77	191.39	156.02	172.86	101.24	
G72	86.4	63.86	79.07	68.81	104.62	164.35	133.04	149.19	86.4	
G73	75.88	59.6	73.25	62.98	90.16	141.12	112.57	126.78	75.88	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2023/7/15 16:30:11

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.:

Test Time: 2023/7/15 16:30:11

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: 2023/7/15 16:30:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1800 Goniophotometer

Humidity: 60

Test Distance: 6.66 m

Remarks: