

Report No.:

Test Time: 2024/7/10 18:49:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.2W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

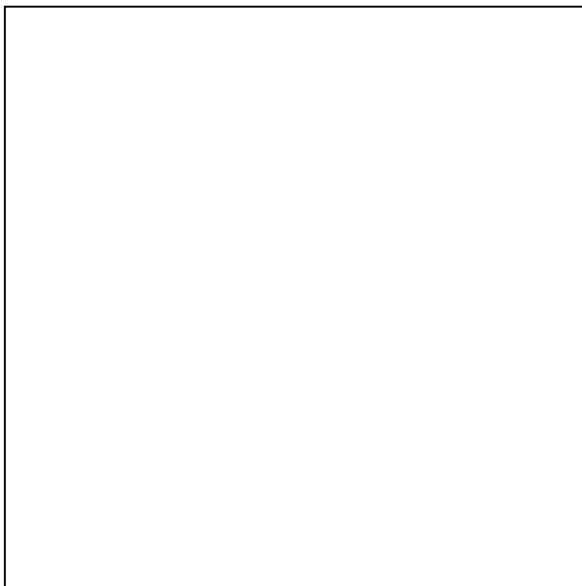
Voltage(V): 219.60 V
Current(A): 0.1910 A
Power(W): 41.19 W
Power Factor: 0.9810
Lamp Luminous Flux: 3368.40

Photometric Results

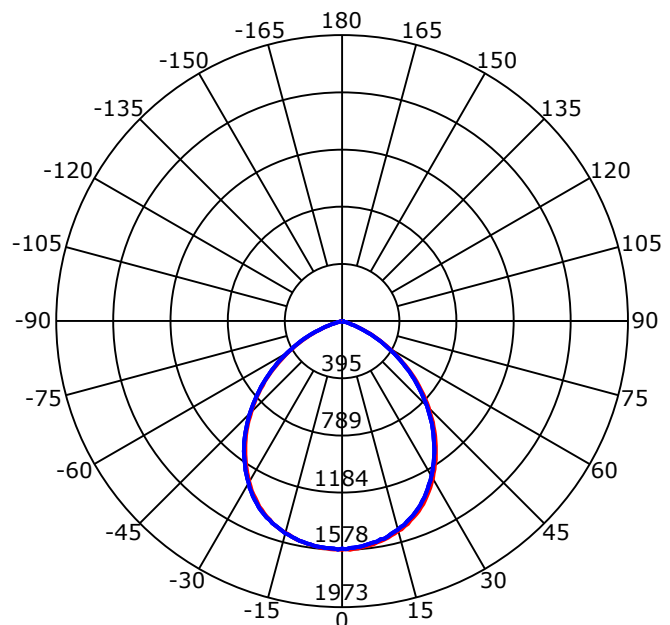
CIE Class: Direct
Luminaire Luminous Flux: 3368.398 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 81.78 lm/W
Beam Angle(50%) C0-180,C90-270: 95.1,95.0
Field Angle(10%) C0-180,C90-270: 136.9,136.9
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 1578.38 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1578.20 cd
Effective Luminous Flux: 3306.38 lm
ERP(ϕ use)(120deg): 3073.22 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 95.1 deg,95.0 deg

C0-180 — C90-270 —

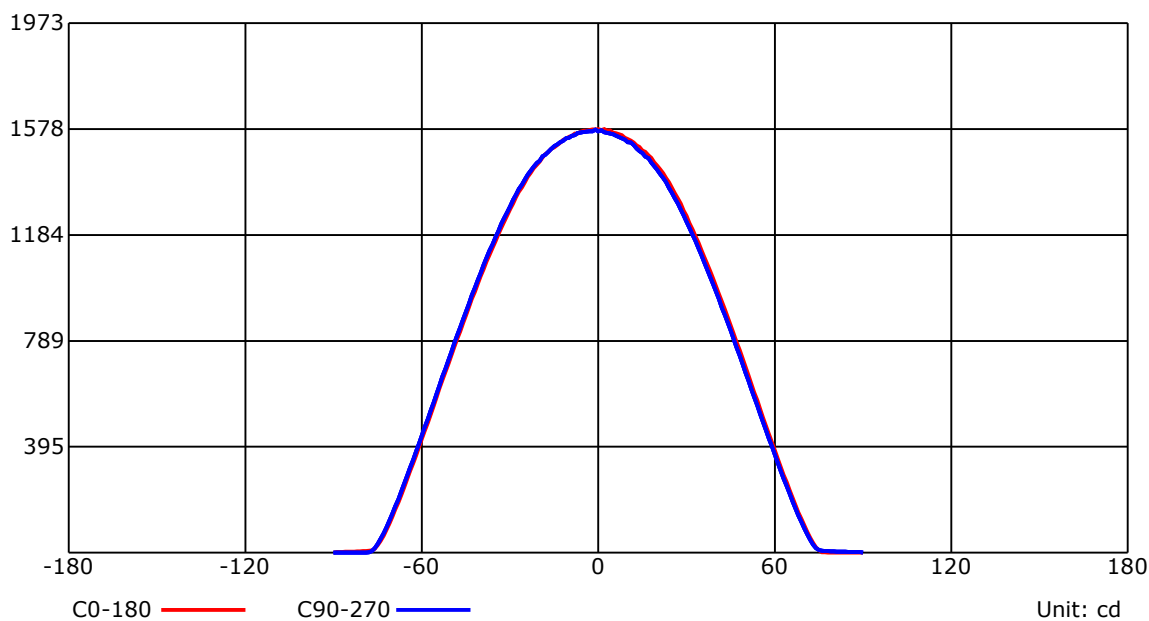
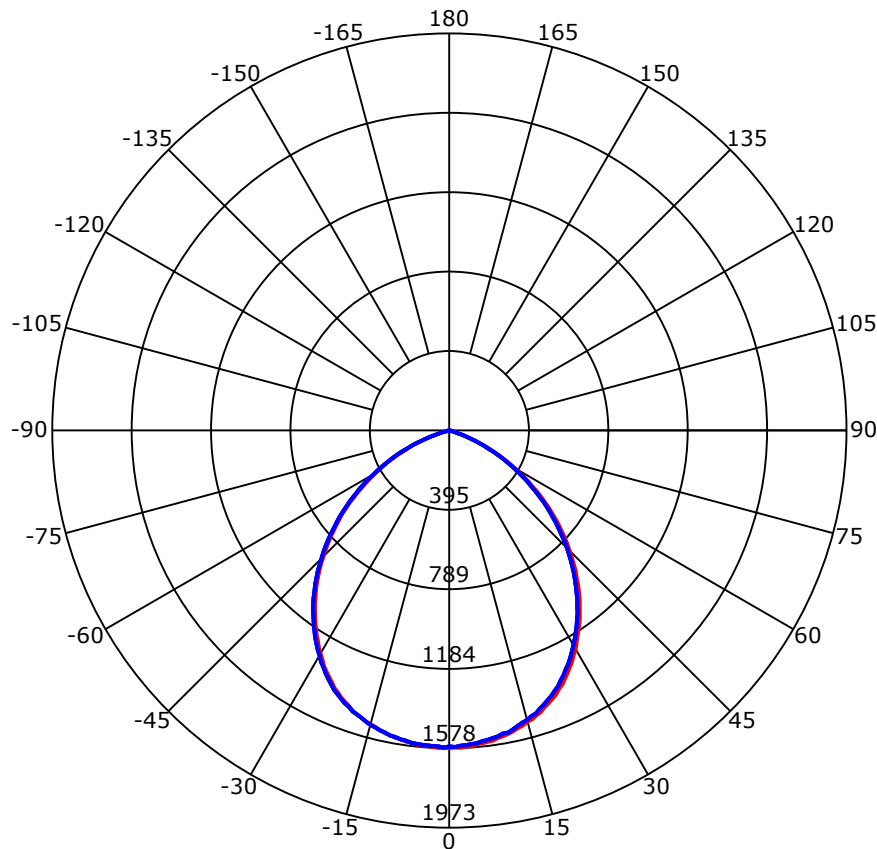
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:49:26

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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Luminous Intensity Distribution Curve



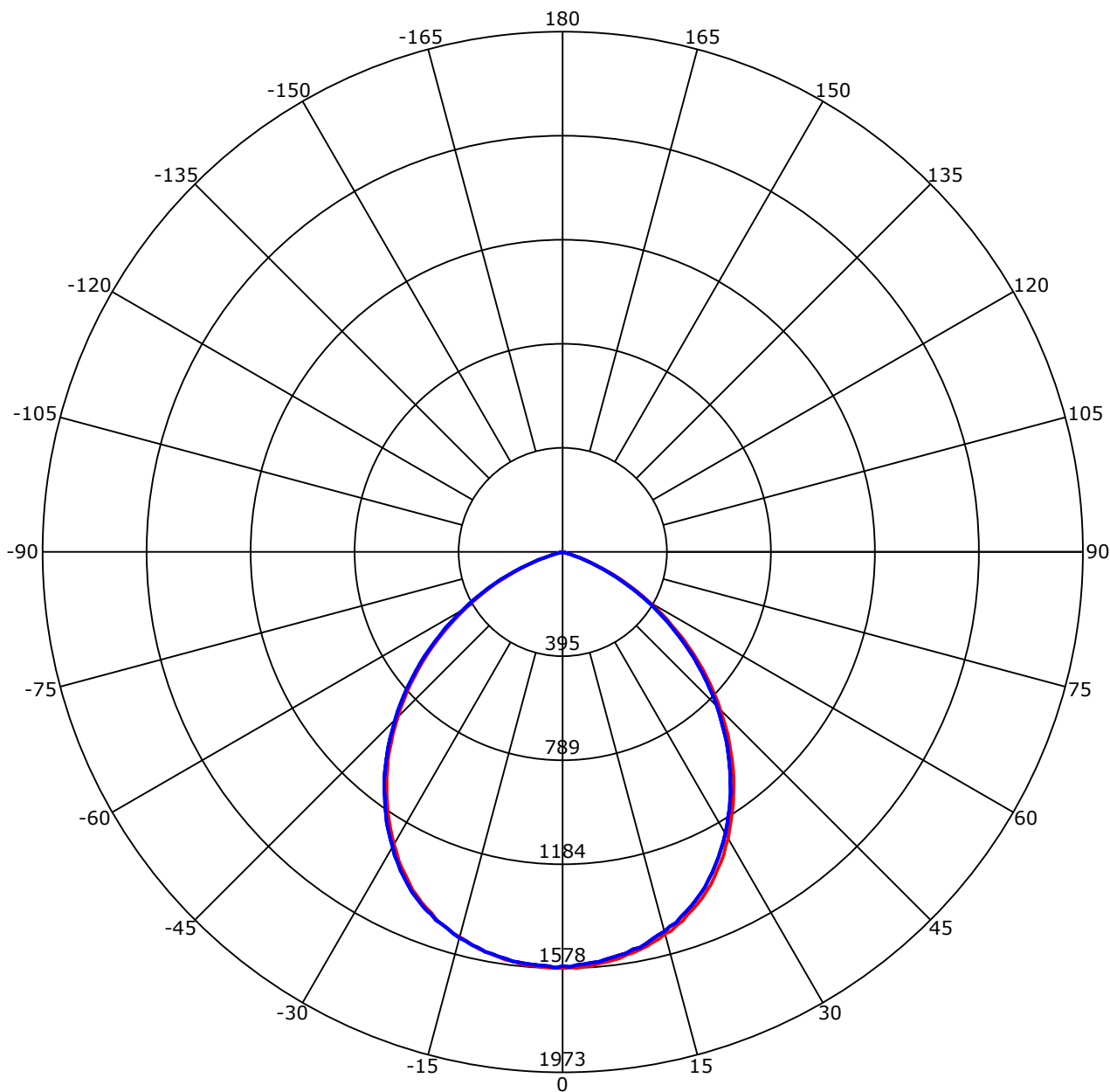
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:49:26

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
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Test Distance: 6.7 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: 2024/7/10 18:49:26

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

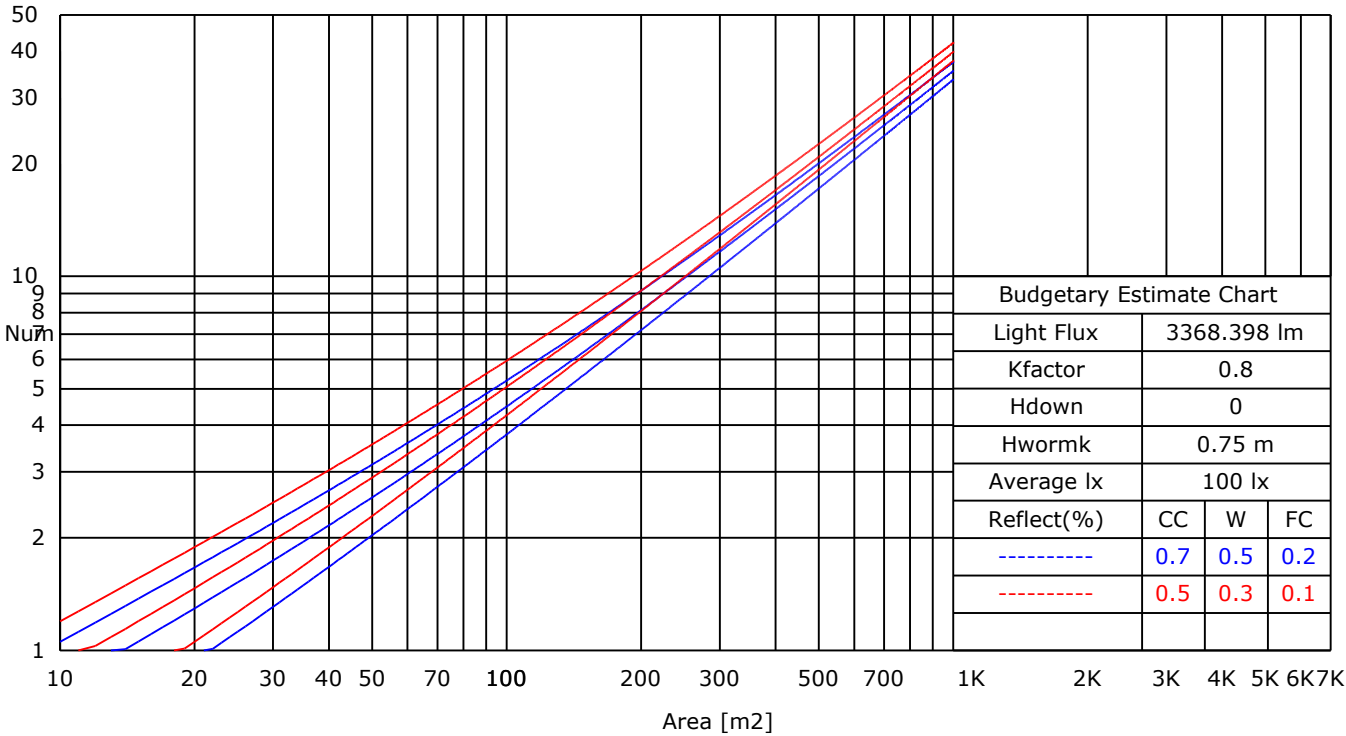
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UTILIZATION FACTORS TABLE

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	0.95	0.91	0.89	0.88	0.83
2	0.99	0.98	0.96	0.98	0.96	0.94	0.95	0.92	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	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.68
4	0.83	0.81	0.80	0.83	0.80	0.78	0.81	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
5	0.77	0.75	0.73	0.76	0.73	0.72	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
6	0.71	0.69	0.67	0.70	0.68	0.66	0.69	0.66	0.63	0.68	0.63	0.60	0.66	0.61	0.56	0.53
7	0.66	0.64	0.62	0.65	0.63	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.62	0.56	0.52	0.49
8	0.61	0.59	0.58	0.61	0.58	0.57	0.61	0.57	0.54	0.60	0.55	0.51	0.58	0.53	0.49	0.45
9	0.57	0.55	0.54	0.57	0.55	0.53	0.57	0.53	0.51	0.56	0.51	0.48	0.55	0.50	0.46	0.42
10	0.54	0.52	0.51	0.54	0.51	0.50	0.54	0.50	0.47	0.53	0.48	0.45	0.52	0.47	0.43	0.40

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



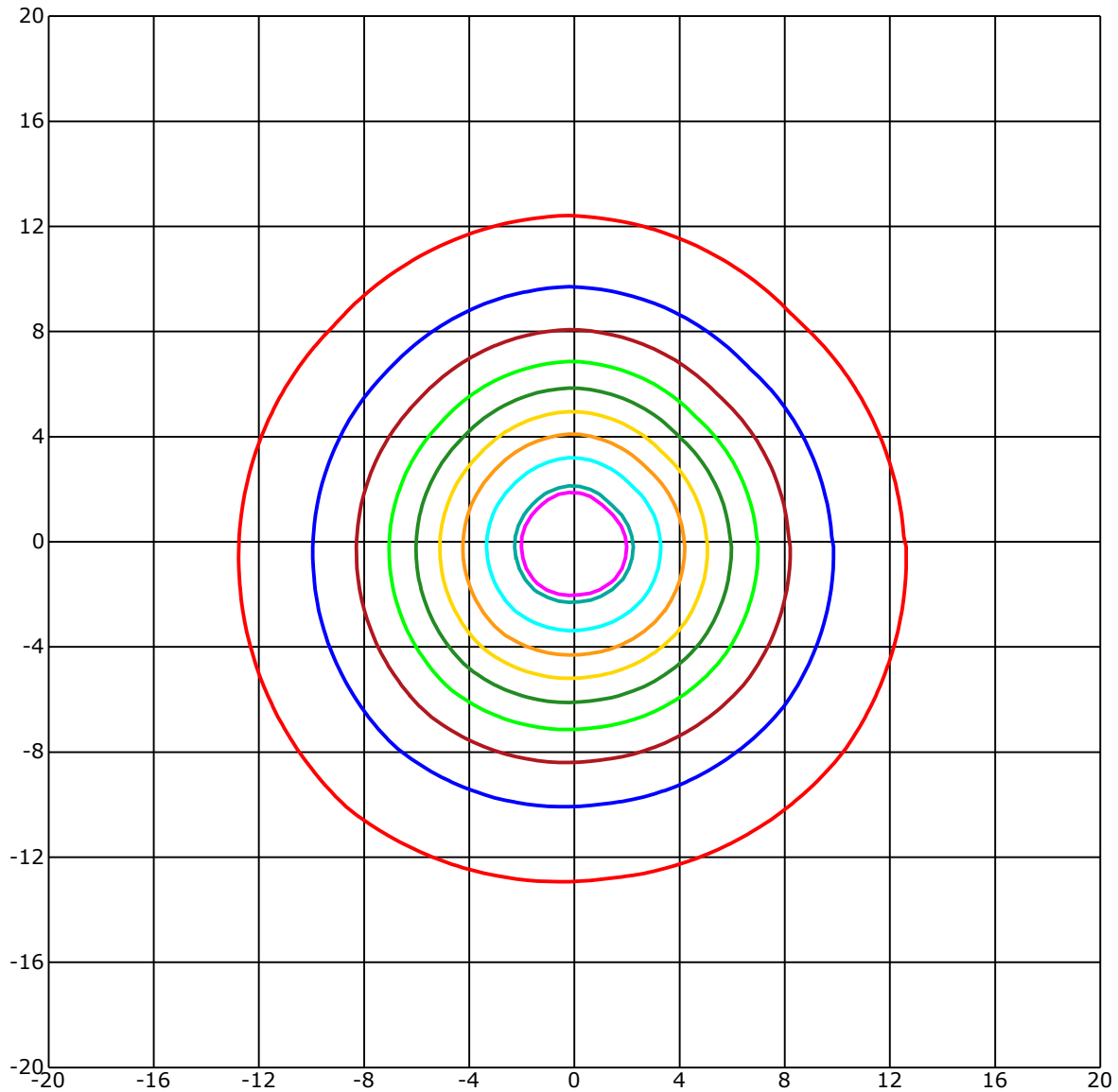
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:49:26

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



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

14.519(92%Emax)	7.891(50%Emax)
14.204(90%Emax)	6.313(40%Emax)
12.626(80%Emax)	4.735(30%Emax)
11.047(70%Emax)	3.156(20%Emax)
9.469(60%Emax)	1.578(10%Emax)

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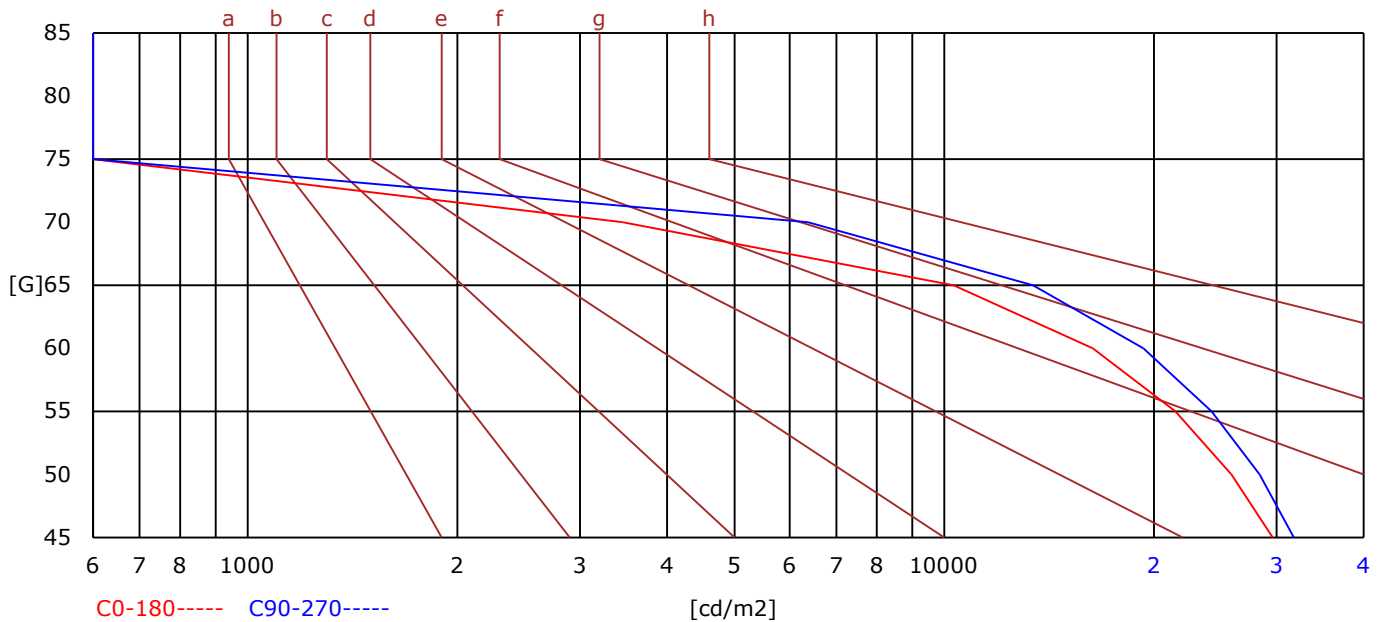
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	29595	25845	21474	16347	10316	3454	34	0	0
C90	31753	28349	24194	19319	13405	6373	197	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



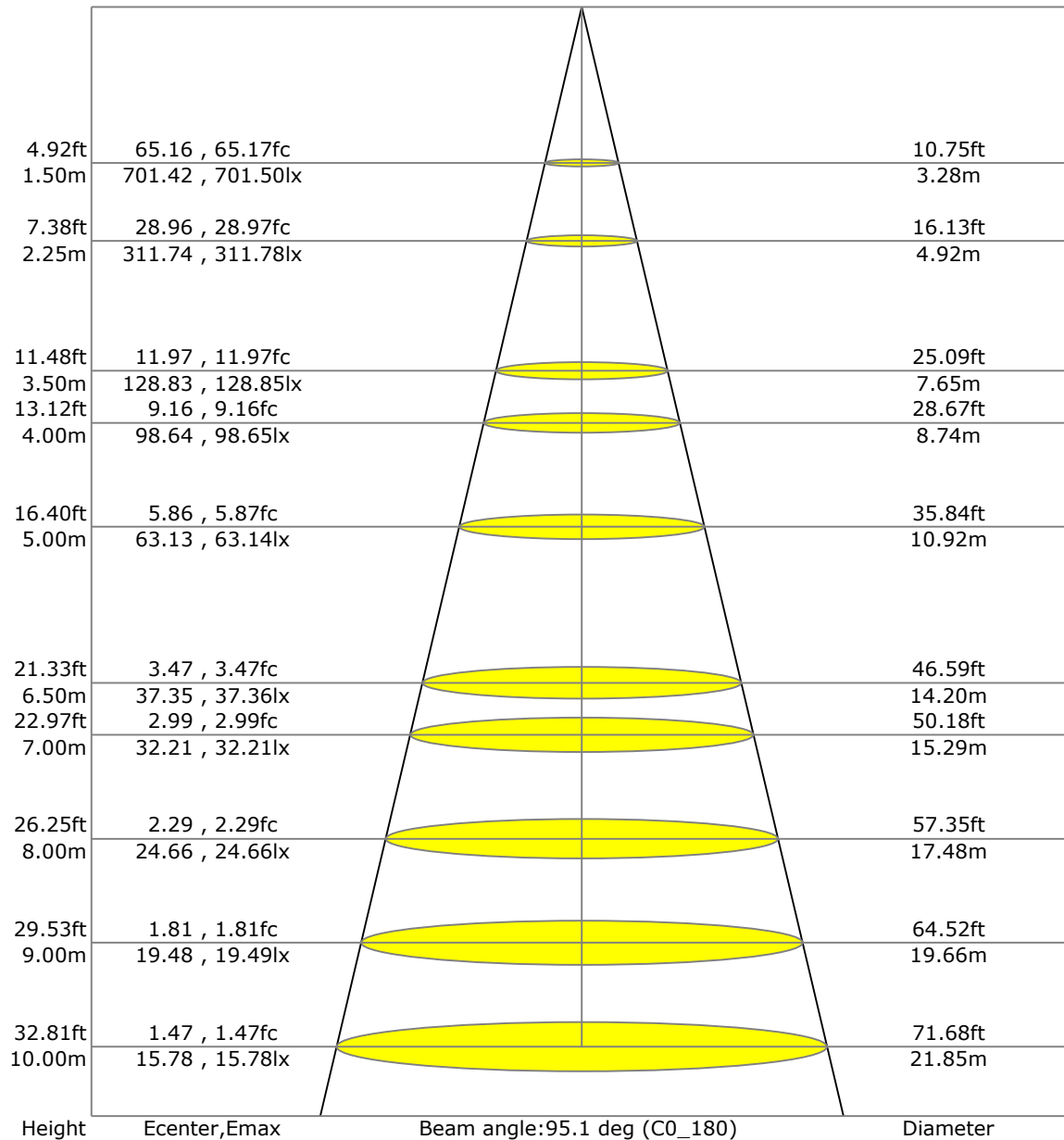
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:49:26

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2024/7/10 18:49:26

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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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	15.38	15.45	15.58	15.63	15.88	15.31	15.38	15.51	15.57	15.81
3H	15.36	15.43	15.57	15.62	15.87	15.30	15.36	15.51	15.56	15.80
4H	15.34	15.40	15.55	15.60	15.85	15.27	15.34	15.48	15.53	15.78
6H	15.31	15.37	15.53	15.57	15.83	15.25	15.31	15.46	15.51	15.76
8H	15.30	15.36	15.52	15.56	15.81	15.23	15.29	15.45	15.50	15.75
12H	15.28	15.34	15.50	15.55	15.80	15.22	15.28	15.44	15.48	15.74
4H 2H	15.84	15.91	16.05	16.10	16.35	15.74	15.80	15.95	16.00	16.25
3H	15.82	15.88	16.04	16.08	16.34	15.71	15.77	15.94	15.98	16.23
4H	15.79	15.84	16.01	16.05	16.31	15.68	15.74	15.91	15.95	16.21
6H	15.75	15.81	15.99	16.03	16.29	15.65	15.70	15.89	15.92	16.19
8H	15.73	15.79	15.98	16.01	16.28	15.63	15.68	15.88	15.91	16.18
12H	15.72	15.76	15.96	16.00	16.27	15.61	15.66	15.86	15.89	16.16
8H 4H	15.80	15.86	16.02	16.07	16.32	15.70	15.76	15.92	15.96	16.22
6H	15.70	15.74	15.95	15.98	16.25	15.60	15.64	15.85	15.88	16.15
8H	15.68	15.72	15.94	15.96	16.24	15.58	15.62	15.84	15.86	16.14
12H	15.66	15.69	15.92	15.95	16.23	15.55	15.59	15.82	15.85	16.13
12H 4H	15.72	15.76	15.96	16.00	16.27	15.62	15.66	15.86	15.90	16.17
6H	15.68	15.72	15.94	15.96	16.24	15.58	15.62	15.84	15.86	16.14

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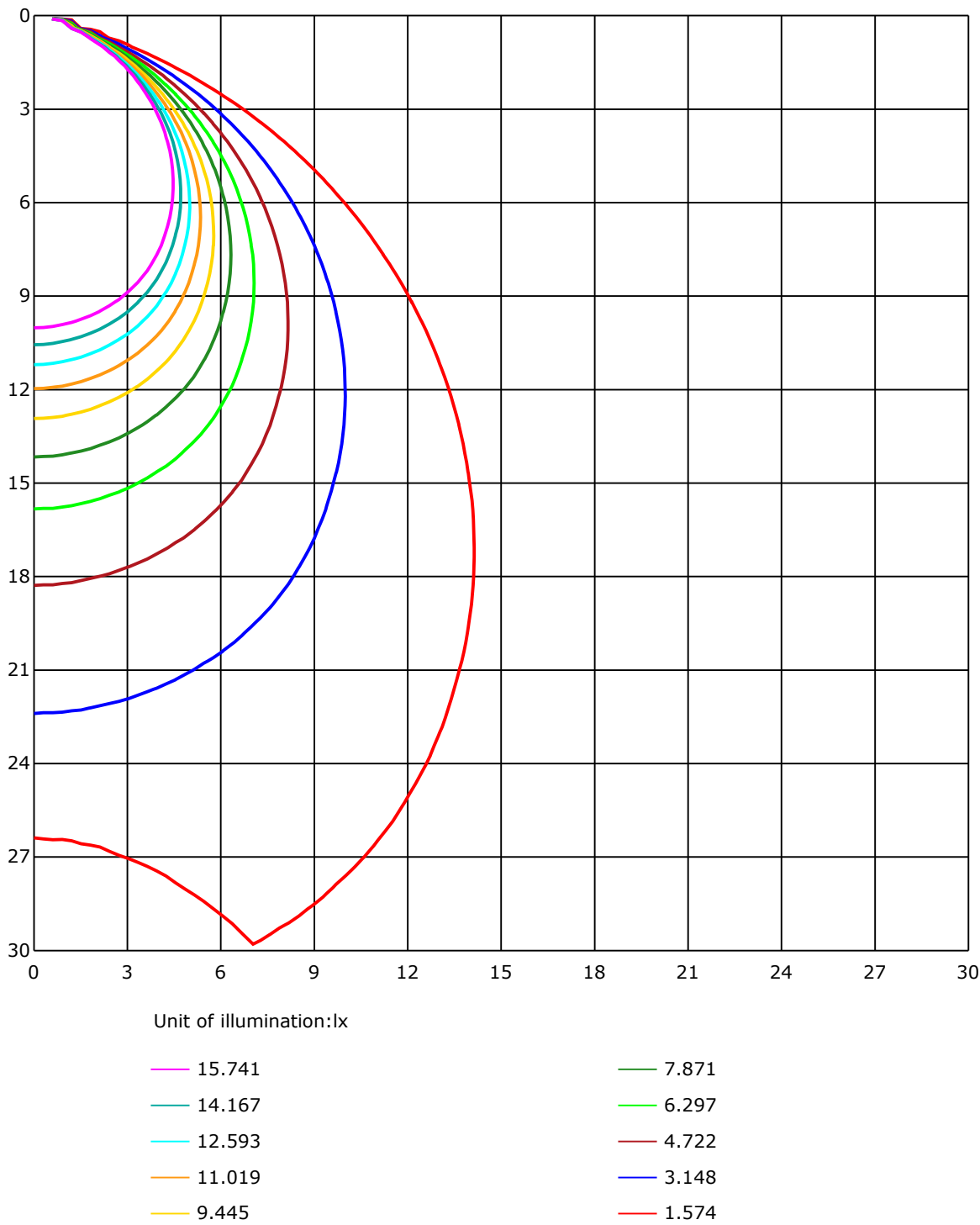
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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



C Range: 0 - 360 Deg
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 Test Speed: High
 Temperature: 25
 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:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1578.2	1566.75	1569.89	1575.1	1578.2	1566.75	1569.89	1575.1	1578.2	
G1	1575.15	1566.12	1573.22	1572.45	1577.17	1570.03	1576.04	1575.91	1575.15	
G2	1578.38	1560.56	1566.89	1569.0	1577.61	1570.21	1570.3	1577.03	1578.38	
G3	1572.95	1559.93	1564.42	1569.49	1575.24	1573.08	1569.62	1574.34	1572.95	
G4	1573.48	1553.06	1561.27	1565.09	1572.18	1573.31	1568.32	1575.42	1573.48	
G5	1565.81	1546.82	1559.52	1558.81	1572.81	1573.84	1567.47	1574.92	1565.81	
G6	1563.03	1540.98	1552.93	1555.12	1568.37	1574.88	1564.82	1568.95	1563.03	
G7	1559.43	1536.67	1548.93	1550.99	1562.26	1569.53	1563.65	1566.84	1559.43	
G8	1555.26	1528.64	1543.45	1547.36	1561.18	1564.73	1556.38	1561.9	1555.26	
G9	1546.28	1524.29	1539.55	1538.69	1553.96	1564.91	1552.84	1560.96	1546.28	
G10	1542.06	1511.85	1529.31	1533.67	1549.33	1556.47	1546.6	1552.75	1542.06	
G11	1535.01	1505.48	1528.42	1523.79	1542.78	1555.26	1543.95	1552.66	1535.01	
G12	1528.5	1492.73	1518.36	1516.38	1538.11	1550.32	1534.25	1544.17	1528.5	
G13	1518.14	1484.83	1506.28	1507.27	1527.43	1542.29	1529.4	1534.21	1518.14	
G14	1511.36	1478.36	1496.05	1495.51	1518.27	1536.09	1520.69	1528.1	1511.36	
G15	1498.74	1465.03	1489.59	1486.35	1510.86	1531.6	1514.68	1517.96	1498.74	
G16	1493.85	1449.81	1476.34	1476.39	1504.08	1520.96	1504.71	1511.54	1493.85	
G17	1480.11	1439.04	1469.56	1461.62	1492.68	1513.96	1493.27	1501.35	1480.11	
G18	1470.91	1426.02	1453.04	1452.37	1484.87	1504.26	1483.3	1493.54	1470.91	
G19	1454.35	1408.42	1440.66	1438.01	1472.84	1494.88	1476.48	1479.98	1454.35	
G20	1441.91	1394.87	1427.05	1424.23	1456.5	1484.83	1460.45	1470.1	1441.91	
G21	1428.76	1373.32	1411.75	1408.15	1444.7	1476.3	1451.56	1457.04	1428.76	
G22	1414.21	1355.63	1396.08	1390.87	1431.5	1463.06	1437.78	1446.27	1414.21	
G23	1396.17	1337.9	1380.55	1371.79	1414.71	1456.73	1423.28	1429.97	1396.17	
G24	1380.91	1315.37	1359.22	1354.6	1401.02	1438.32	1409.46	1416.32	1380.91	
G25	1360.26	1295.97	1341.63	1336.42	1380.37	1425.3	1390.74	1403.89	1360.26	
G26	1339.43	1273.22	1320.35	1311.06	1361.65	1408.83	1372.56	1383.42	1339.43	
G27	1320.08	1252.34	1299.97	1290.45	1344.73	1394.96	1354.83	1363.13	1320.08	
G28	1300.6	1224.51	1277.7	1268.28	1324.84	1377.54	1333.37	1348.9	1300.6	
G29	1274.74	1203.82	1255.93	1247.13	1300.6	1360.03	1315.32	1323.27	1274.74	
G30	1254.86	1177.38	1232.19	1223.57	1280.13	1341.36	1290.54	1305.22	1254.86	
G31	1227.65	1151.88	1209.61	1197.13	1257.64	1318.33	1270.07	1282.69	1227.65	
G32	1203.59	1126.43	1183.66	1173.6	1232.95	1297.95	1246.55	1261.27	1203.59	
G33	1178.41	1101.06	1160.41	1146.76	1210.1	1276.04	1225.23	1237.12	1178.41	
G34	1156.46	1074.71	1134.37	1121.31	1185.86	1252.43	1198.34	1215.26	1156.46	
G35	1129.03	1047.15	1109.73	1095.32	1160.05	1231.02	1175.36	1187.48	1129.03	
G36	1102.72	1020.04	1081.71	1070.09	1135.54	1203.5	1148.47	1164.04	1102.72	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1077.18	991.93	1055.54	1042.93	1108.6	1182.58	1124.67	1137.78	1077.18	
G38	1048.95	964.33	1026.72	1014.69	1084.45	1156.86	1098.77	1114.35	1048.95	
G39	1021.65	937.08	1000.19	988.12	1055.63	1130.64	1072.96	1084.72	1021.65	
G40	992.7	906.15	972.18	960.69	1031.53	1104.83	1042.84	1059.63	992.7	
G41	963.88	876.3	945.43	930.88	1002.04	1077.72	1016.18	1030.72	963.88	
G42	936.58	845.19	913.29	899.6	972.41	1052.36	987.45	1004.95	936.58	
G43	905.34	817.04	884.65	870.87	945.07	1024.57	958.9	976.31	905.34	
G44	875.85	785.71	855.29	841.64	913.56	996.02	927.29	948.12	875.85	
G45	845.68	755.45	827.05	810.53	883.84	965.94	899.01	919.12	845.68	
G46	816.77	724.66	796.3	780.5	855.42	940.54	869.79	887.7	816.77	
G47	785.35	693.69	765.46	751.19	824.49	908.75	840.61	856.59	785.35	
G48	755.23	661.86	734.04	719.41	795.0	878.59	809.19	826.6	755.23	
G49	724.03	632.72	702.53	688.7	764.34	849.95	778.98	796.26	724.03	
G50	693.6	599.73	671.2	657.82	733.5	818.17	747.28	765.24	693.6	
G51	662.76	569.16	641.88	625.18	702.8	788.45	717.39	735.52	662.76	
G52	630.3	538.28	610.19	595.6	674.07	758.24	686.32	705.13	630.3	
G53	598.34	508.02	579.84	563.1	641.97	728.61	656.34	673.22	598.34	
G54	567.99	477.23	547.75	532.89	611.72	695.44	623.48	643.81	567.99	
G55	535.09	444.64	515.97	500.97	578.27	665.22	592.41	610.77	535.09	
G56	502.59	415.73	485.26	471.35	546.98	632.9	559.73	580.29	502.59	
G57	473.1	384.89	456.13	439.65	515.56	600.99	531.09	548.06	473.1	
G58	442.66	354.5	424.39	409.13	484.95	569.83	498.77	517.4	442.66	
G59	410.12	325.09	394.72	378.92	453.43	538.5	467.98	486.97	410.12	
G60	380.62	295.06	363.7	348.71	423.27	506.81	437.0	456.22	380.62	
G61	349.87	266.56	334.3	319.75	392.25	475.88	406.39	424.52	349.87	
G62	320.16	237.6	304.62	289.32	362.04	445.8	376.9	394.0	320.16	
G63	290.48	210.22	276.07	261.35	332.59	414.83	345.88	364.1	290.48	
G64	262.47	183.11	247.34	232.75	303.68	384.98	316.21	335.01	262.47	
G65	233.2	157.38	219.29	204.52	273.07	354.81	286.85	304.76	233.2	
G66	205.87	131.39	191.14	178.26	243.66	324.11	257.98	275.94	205.87	
G67	178.12	107.29	164.7	151.68	215.34	294.34	228.98	246.9	178.12	
G68	150.83	84.35	139.02	126.23	187.46	264.58	199.54	218.39	150.83	
G69	125.83	62.94	114.07	101.81	160.84	235.49	172.96	189.48	125.83	
G70	101.86	42.65	90.32	78.69	134.45	206.76	146.25	162.46	101.86	
G71	78.24	25.36	68.19	57.46	108.95	179.38	120.98	137.0	78.24	
G72	56.79	11.81	48.17	37.53	85.78	151.68	95.97	110.12	56.79	
G73	37.03	3.01	30.39	20.83	63.52	125.83	73.13	85.96	37.03	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/7/10 18:49:26

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]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/10 18:49:26

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