

Report No.:

Test Time: 2025/4/7 15:03:26

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H94-45°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

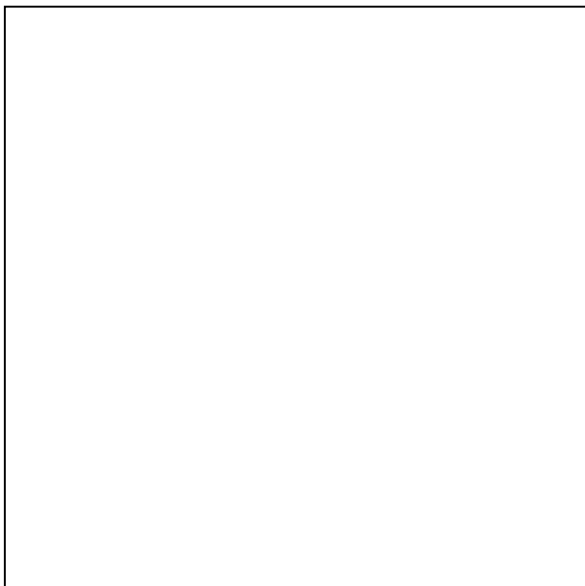
Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.69 W
Power Factor: 0.9470
Lamp Luminous Flux: 1206.70

Photometric Results

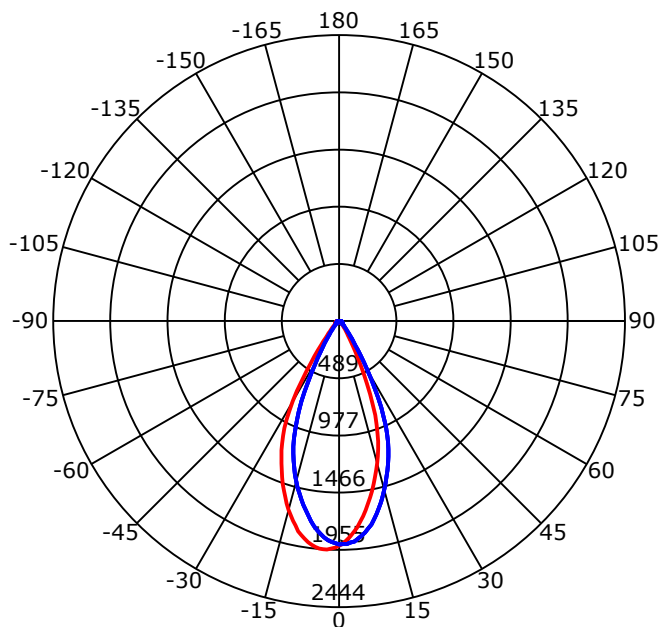
CIE Class: Direct
Luminaire Luminous Flux: 1206.704 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.14 lm/W
Beam Angle(50%) C0-180,C90-270: 47.1,47.0
Field Angle(10%) C0-180,C90-270: 68.9,69.8
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1954.94 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1918.74 cd
Effective Luminous Flux: 1046.83 lm
ERP(ϕ use)(120deg): 1165.65 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.1 deg,47.0 deg

C0-180 — C90-270 —

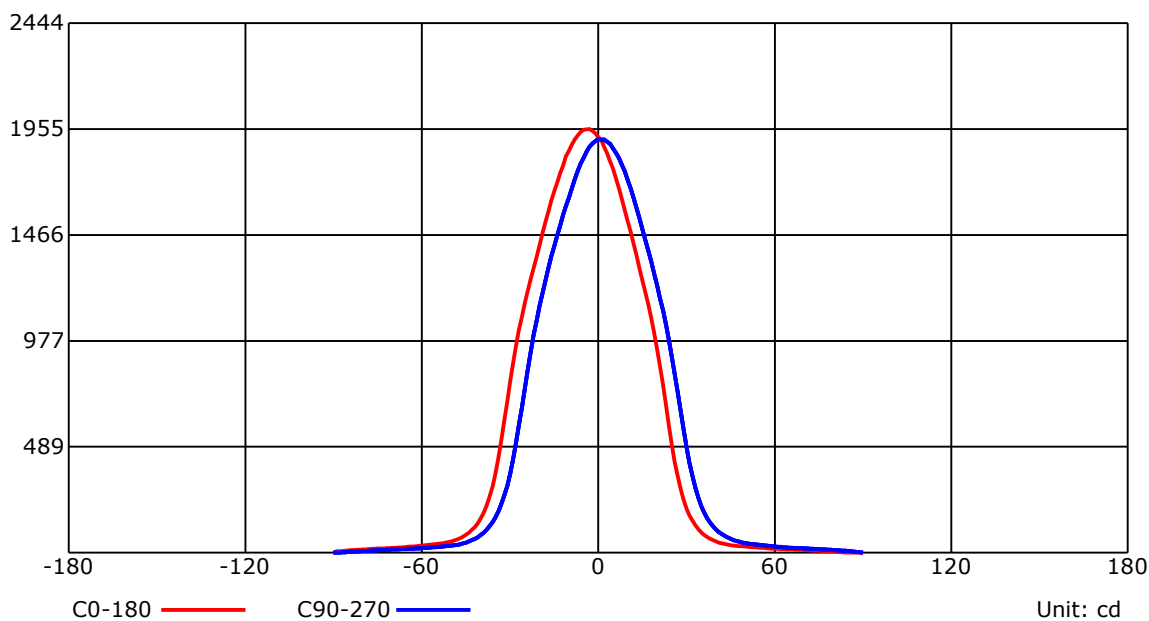
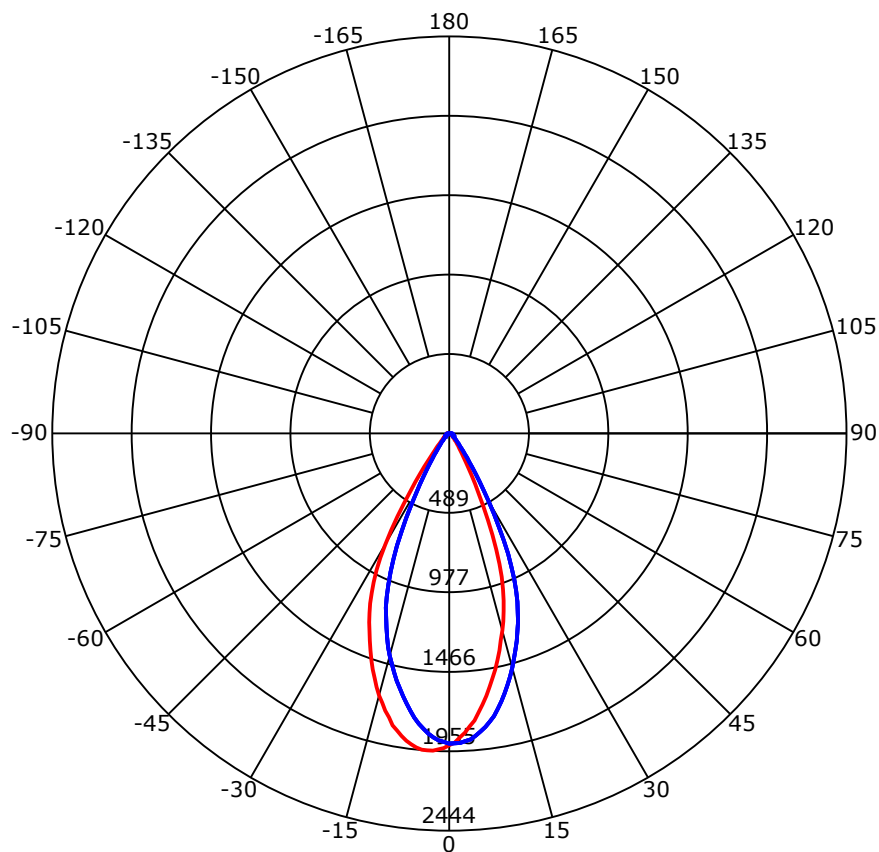
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

Luminous Intensity Distribution Curve



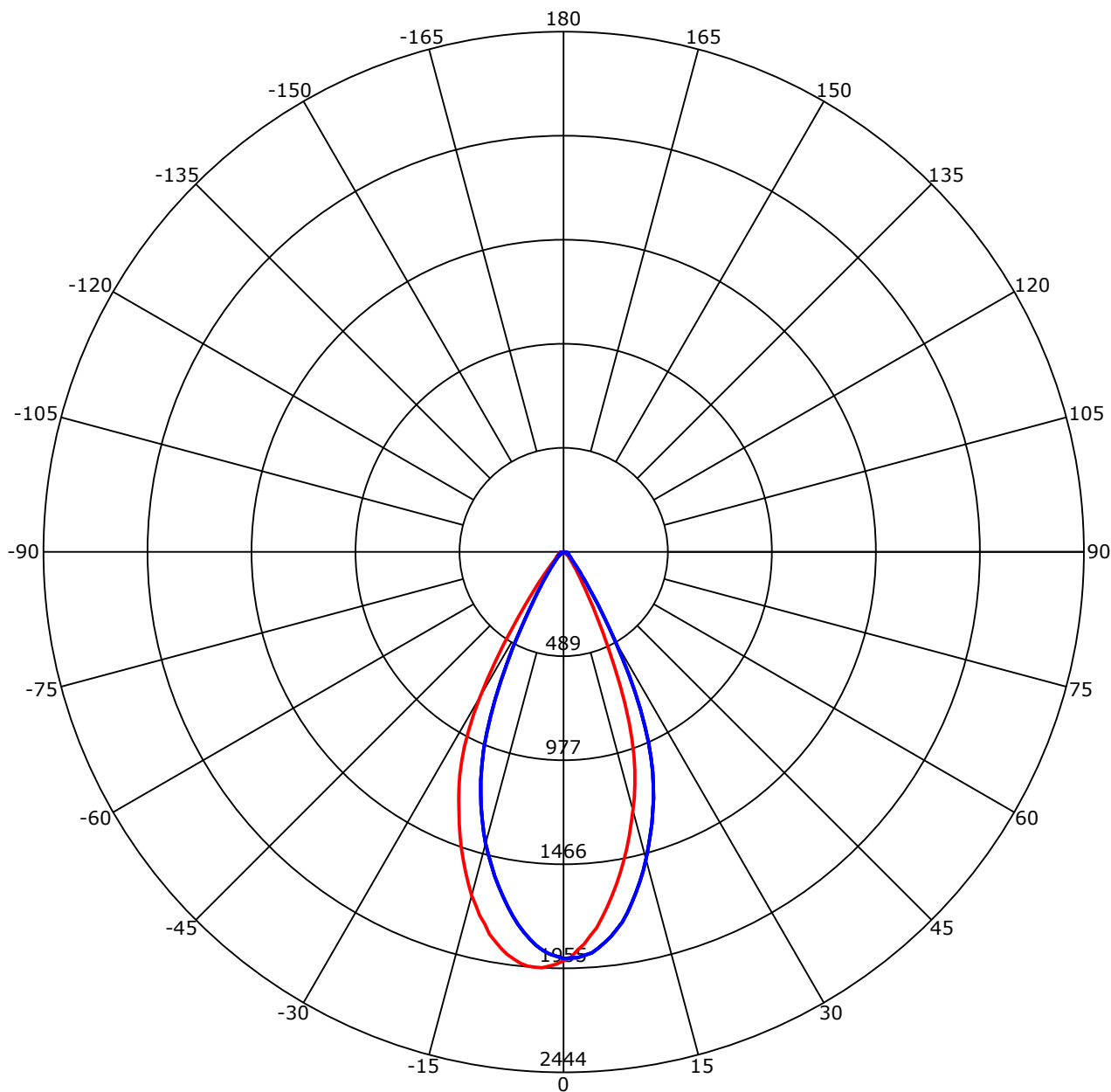
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

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: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

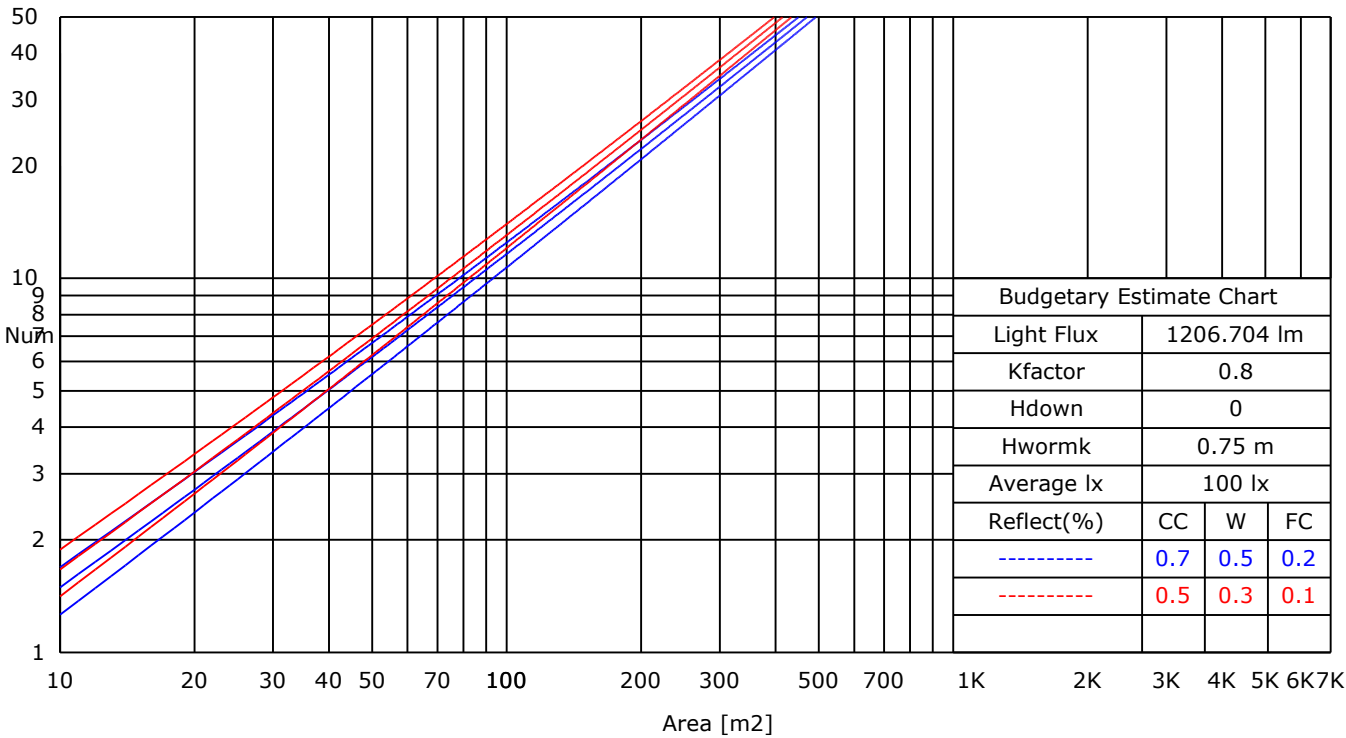
Report No.:

Test Time: 2025/4/7 15:03:26

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	1.03	1.01	0.99	1.02	0.99	0.98	0.98	0.96	0.94	0.93	0.91	0.89	0.87	0.85	0.82	0.77
2	0.98	0.96	0.95	0.97	0.95	0.93	0.94	0.91	0.89	0.90	0.87	0.84	0.85	0.81	0.79	0.74
3	0.94	0.92	0.91	0.93	0.90	0.89	0.90	0.87	0.85	0.86	0.83	0.80	0.82	0.78	0.75	0.71
4	0.90	0.88	0.87	0.89	0.87	0.85	0.87	0.84	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.68
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.76	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
8	0.79	0.78	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.68	0.71	0.67	0.64	0.60
9	0.77	0.76	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.69	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.72	0.71	0.72	0.69	0.68	0.70	0.67	0.64	0.68	0.64	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



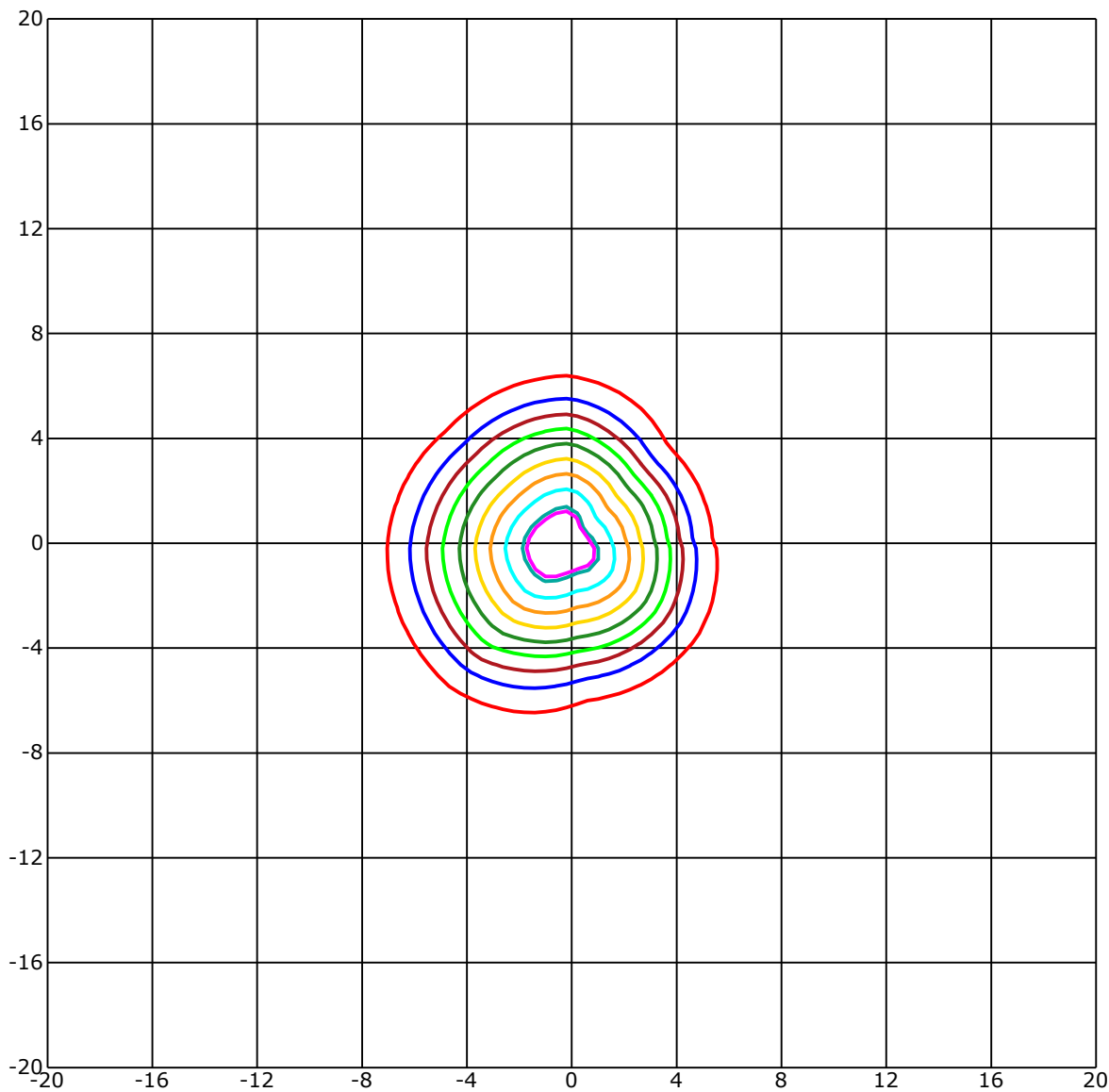
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

ISOLX DIAGRAM



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

- | | |
|-----------------|----------------|
| 17.912(92%Emax) | 9.735(50%Emax) |
| 17.522(90%Emax) | 7.788(40%Emax) |
| 15.575(80%Emax) | 5.841(30%Emax) |
| 13.628(70%Emax) | 3.894(20%Emax) |
| 11.682(60%Emax) | 1.947(10%Emax) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

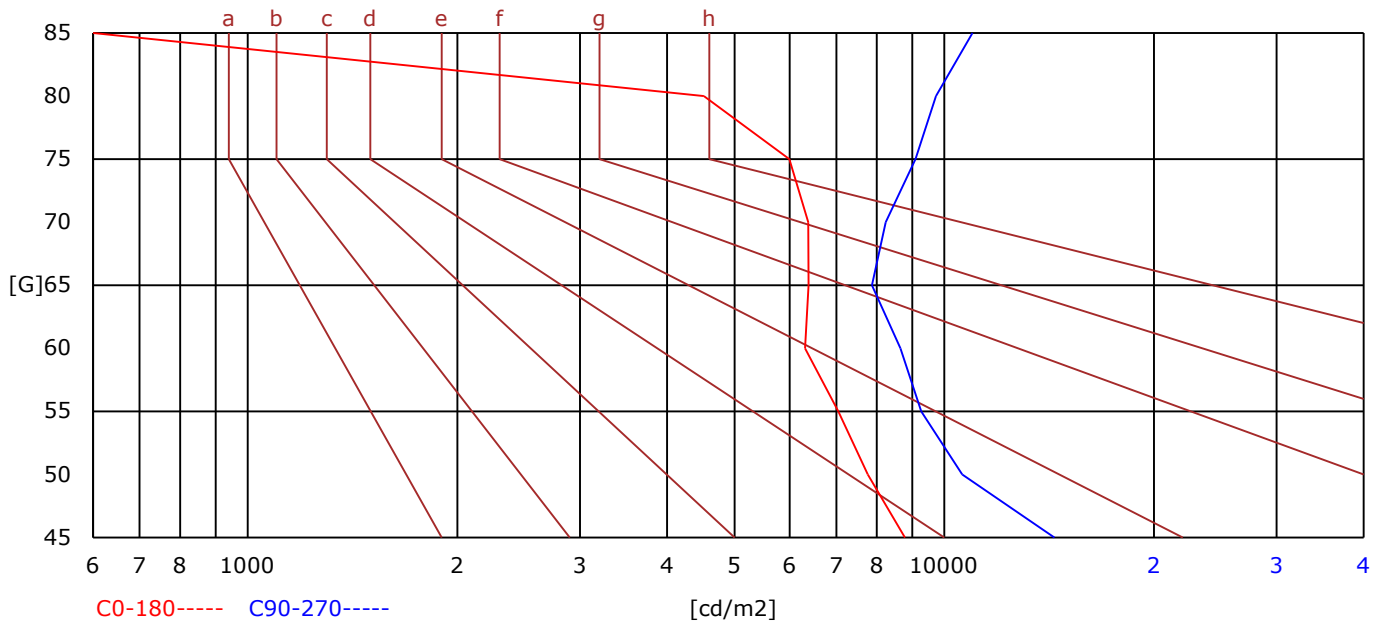
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8776	7764	7047	6309	6383	6376	5994	4517	0
C90	14395	10606	9271	8653	7872	8240	9091	9728	10977
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



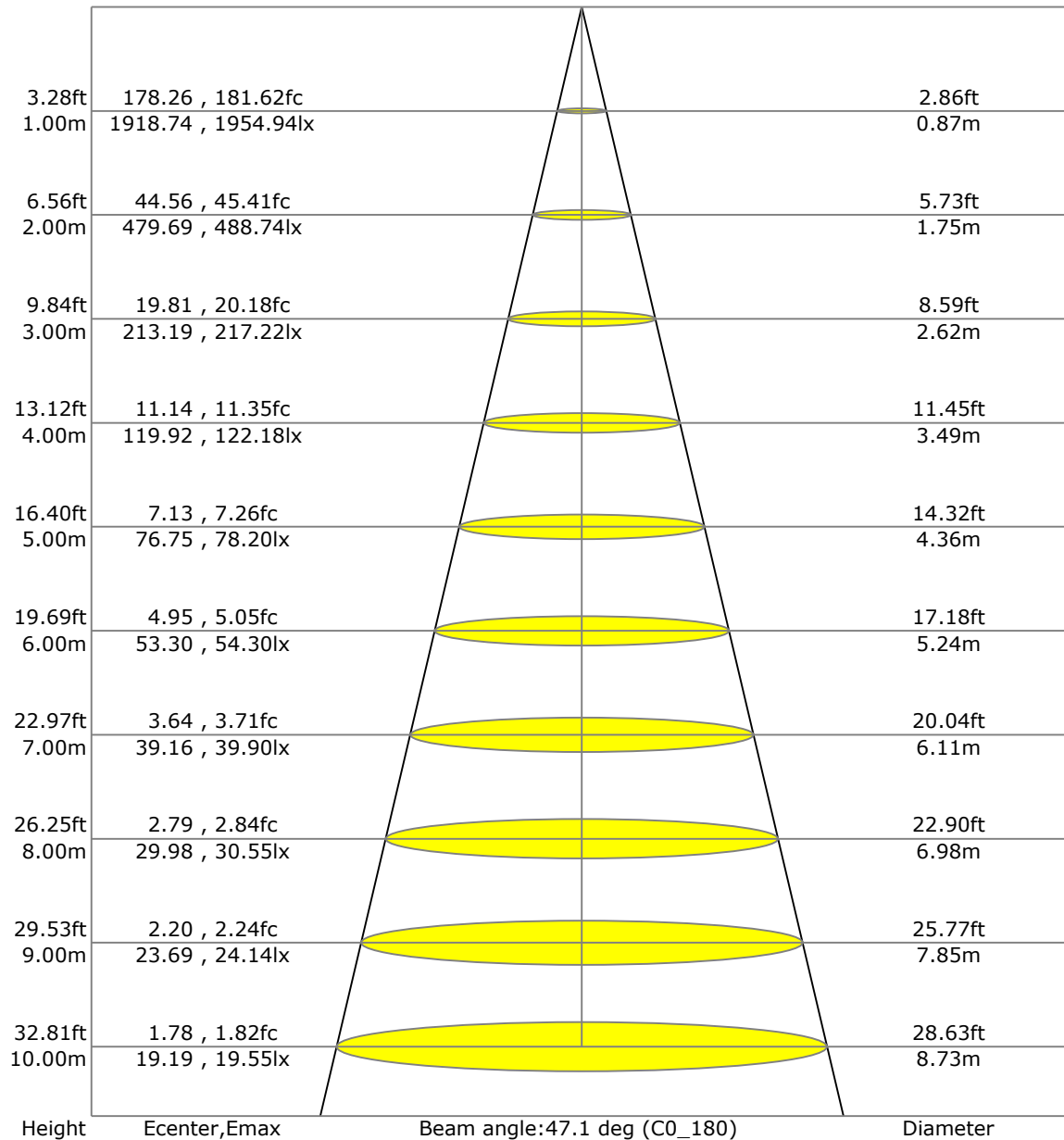
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

UGR(Unified Glare Rating) TABLE

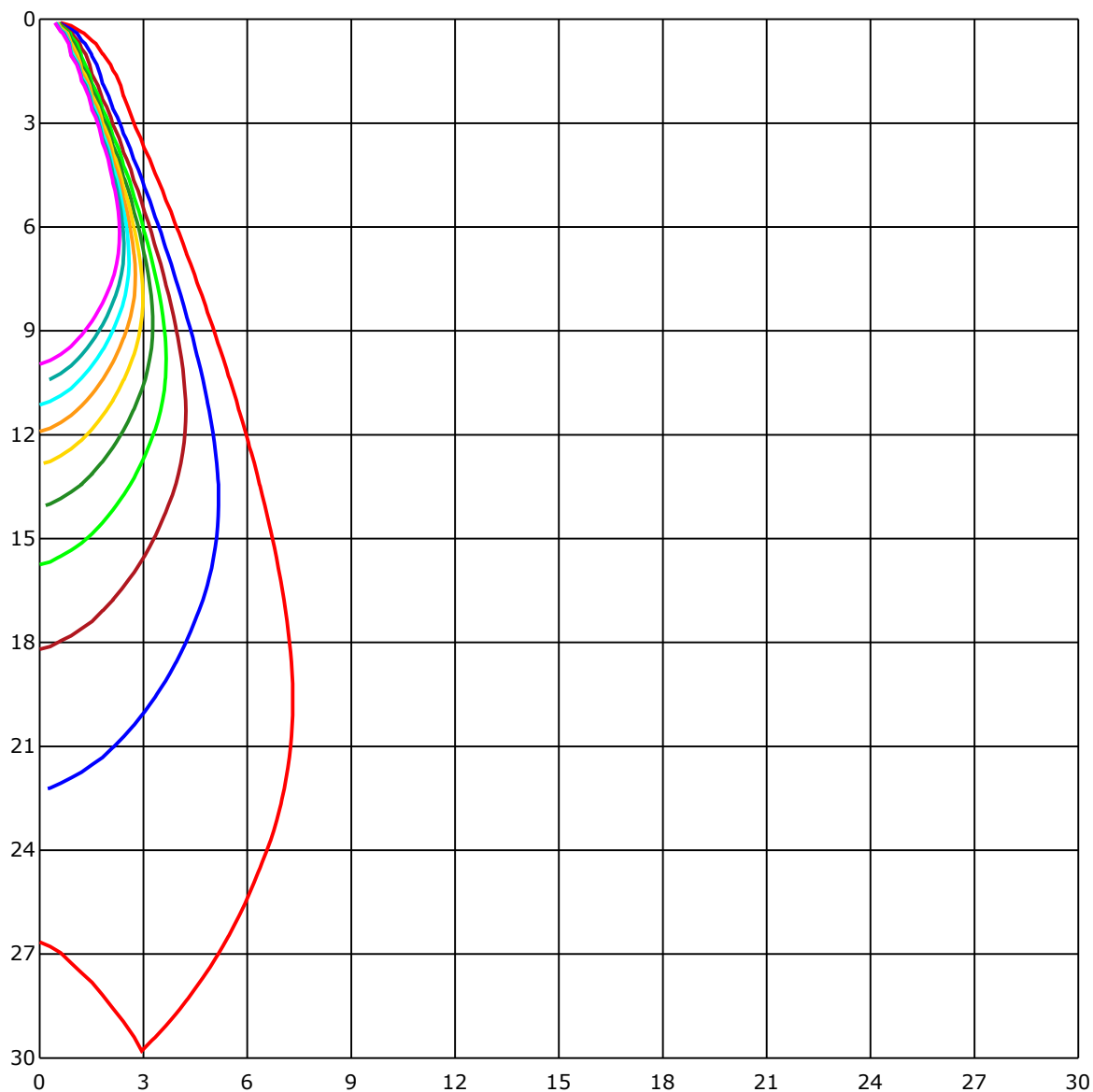
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	8.47	8.52	8.67	8.71	8.95	9.23	9.28	9.43	9.46	9.71
3H	8.65	8.70	8.85	8.89	9.14	9.32	9.37	9.52	9.56	9.81
4H	8.69	8.74	8.90	8.94	9.19	9.33	9.38	9.54	9.57	9.82
6H	8.69	8.75	8.91	8.95	9.20	9.31	9.37	9.53	9.57	9.82
8H	8.68	8.74	8.90	8.94	9.19	9.31	9.36	9.52	9.56	9.81
12H	8.67	8.73	8.90	8.93	9.19	9.30	9.35	9.52	9.55	9.81
4H 2H	10.22	10.27	10.43	10.47	10.72	11.58	11.63	11.79	11.83	12.08
3H	10.55	10.60	10.77	10.80	11.06	11.81	11.86	12.03	12.07	12.32
4H	10.64	10.69	10.87	10.90	11.16	11.85	11.90	12.08	12.11	12.37
6H	10.68	10.73	10.92	10.95	11.22	11.85	11.90	12.09	12.12	12.38
8H	10.69	10.74	10.93	10.96	11.23	11.84	11.89	12.08	12.11	12.38
12H	10.68	10.73	10.93	10.96	11.23	11.82	11.87	12.07	12.10	12.37
8H 4H	10.60	10.65	10.82	10.85	11.11	12.57	12.62	12.78	12.82	13.07
6H	11.18	11.23	11.44	11.47	11.74	13.06	13.11	13.31	13.34	13.62
8H	11.19	11.24	11.45	11.48	11.76	13.05	13.09	13.31	13.34	13.61
12H	11.19	11.23	11.46	11.49	11.77	13.03	13.07	13.30	13.33	13.61
12H 4H	11.12	11.17	11.37	11.40	11.67	13.42	13.47	13.67	13.70	13.97
6H	11.18	11.23	11.44	11.47	11.75	13.47	13.51	13.73	13.76	14.04

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

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: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1918.74	1861.16	1908.64	1940.17	1918.74	1861.16	1908.64	1940.17	1918.74	
G1	1903.64	1835.96	1905.95	1938.38	1935.59	1886.13	1899.11	1929.55	1903.64	
G2	1870.84	1808.02	1906.0	1935.92	1945.46	1897.98	1888.82	1917.75	1870.84	
G3	1842.9	1771.63	1895.95	1933.7	1954.94	1908.6	1873.81	1898.21	1842.9	
G4	1806.08	1736.37	1887.12	1915.39	1953.86	1911.95	1851.68	1876.93	1806.08	
G5	1772.62	1697.15	1866.92	1896.32	1952.21	1915.77	1824.11	1848.99	1772.62	
G6	1724.72	1657.13	1844.31	1873.76	1941.68	1911.19	1795.7	1820.76	1724.72	
G7	1679.55	1612.1	1819.91	1848.94	1925.87	1901.28	1761.58	1781.87	1679.55	
G8	1630.84	1565.38	1789.94	1815.24	1908.31	1885.52	1725.14	1745.86	1630.84	
G9	1579.96	1518.04	1760.3	1780.08	1883.44	1871.64	1683.75	1703.53	1579.96	
G10	1529.46	1468.34	1720.47	1746.71	1855.97	1845.64	1641.08	1664.02	1529.46	
G11	1477.83	1419.49	1678.32	1702.82	1828.74	1818.64	1598.8	1618.48	1477.83	
G12	1423.27	1366.26	1634.85	1658.97	1785.6	1783.52	1557.12	1571.61	1423.27	
G13	1369.37	1317.97	1588.98	1611.11	1751.24	1750.49	1509.45	1529.18	1369.37	
G14	1311.08	1259.26	1542.77	1565.24	1708.95	1712.21	1464.0	1478.96	1311.08	
G15	1256.38	1203.33	1492.27	1512.24	1669.5	1672.89	1415.77	1427.57	1256.38	
G16	1203.14	1143.44	1443.75	1459.19	1622.35	1629.33	1365.5	1373.9	1203.14	
G17	1142.92	1082.51	1390.7	1404.91	1572.46	1587.04	1311.37	1320.99	1142.92	
G18	1079.72	1013.46	1341.29	1353.04	1524.98	1541.31	1255.2	1268.79	1079.72	
G19	1013.18	938.89	1286.45	1294.38	1475.61	1497.18	1197.62	1208.52	1013.18	
G20	939.03	860.4	1233.35	1241.28	1420.82	1445.45	1140.28	1148.91	939.03	
G21	860.35	776.06	1174.21	1181.76	1367.34	1395.85	1073.35	1081.42	860.35	
G22	769.88	685.25	1116.16	1128.71	1313.07	1345.77	1002.84	1012.19	769.88	
G23	678.46	596.71	1050.32	1066.18	1261.72	1294.75	924.68	930.77	678.46	
G24	584.16	509.68	979.85	999.35	1209.23	1240.38	844.78	844.73	584.16	
G25	496.98	431.8	903.58	926.85	1153.63	1188.51	760.01	753.03	496.98	
G26	416.98	362.9	822.64	851.86	1091.29	1131.83	672.18	662.41	416.98	
G27	349.07	303.62	735.14	771.43	1027.38	1070.57	586.47	571.27	349.07	
G28	291.02	254.16	649.76	686.81	952.62	998.17	506.28	489.57	291.02	
G29	242.88	213.71	566.13	598.93	873.66	920.67	430.53	415.05	242.88	
G30	203.18	180.34	486.93	515.34	790.22	835.2	364.12	350.72	203.18	
G31	171.94	154.05	414.34	436.52	698.23	743.02	308.24	296.16	171.94	
G32	146.97	131.63	351.1	366.77	603.93	651.13	261.99	251.65	146.97	
G33	125.73	113.65	296.92	307.06	516.48	562.4	223.05	214.98	125.73	
G34	108.13	98.78	252.41	257.08	435.82	480.09	190.01	184.59	108.13	
G35	94.06	86.84	215.17	216.82	365.4	406.18	162.83	159.24	94.06	
G36	82.36	76.32	184.87	182.98	305.22	343.12	140.27	138.15	82.36	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/4/7 15:03:26

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	72.68	67.77	159.62	155.28	255.67	290.69	120.92	121.06	72.68	
G38	64.52	60.6	138.38	133.47	215.93	246.79	105.25	106.67	64.52	
G39	57.67	54.7	121.25	115.21	183.88	210.83	92.08	94.58	57.67	
G40	52.06	49.13	107.33	99.96	158.06	181.09	81.51	85.0	52.06	
G41	46.87	45.03	95.38	87.41	136.82	156.69	72.02	76.51	46.87	
G42	42.85	41.39	85.66	77.26	119.17	135.6	64.14	69.19	42.85	
G43	39.74	38.47	76.88	68.81	104.82	118.23	57.34	63.01	39.74	
G44	37.19	35.87	69.9	61.69	92.46	104.02	51.87	57.67	37.19	
G45	35.02	33.98	63.57	55.74	82.78	92.22	46.68	53.33	35.02	
G46	33.18	32.33	58.38	50.93	74.52	82.08	42.81	49.13	33.18	
G47	31.67	30.96	53.9	46.21	67.44	74.0	39.46	46.02	31.67	
G48	30.39	29.59	50.31	42.52	61.59	66.97	36.53	43.56	30.39	
G49	29.31	28.55	46.68	39.46	56.78	61.07	34.22	41.25	29.31	
G50	28.08	27.33	44.08	37.33	52.58	55.88	32.38	39.27	28.08	
G51	27.04	26.48	41.91	34.93	48.75	52.11	30.87	37.62	27.04	
G52	26.1	25.2	40.07	33.13	46.06	48.19	29.59	36.25	26.1	
G53	25.01	24.45	38.32	31.57	43.66	45.21	28.22	34.78	25.01	
G54	23.88	23.17	36.81	30.25	41.63	42.67	27.19	33.46	23.88	
G55	22.89	22.14	35.44	29.12	39.83	40.73	25.96	32.24	22.89	
G56	22.04	21.0	33.98	27.99	38.23	38.75	25.06	31.1	22.04	
G57	21.1	19.96	32.66	26.76	36.77	37.38	23.98	29.92	21.1	
G58	20.06	18.6	31.43	25.82	35.21	35.73	23.17	28.98	20.06	
G59	18.83	17.7	30.11	24.68	34.08	34.45	22.04	27.66	18.83	
G60	17.84	17.27	29.03	23.69	32.66	33.32	21.19	26.57	17.84	
G61	17.51	16.71	27.56	22.61	31.39	32.0	20.15	24.97	17.51	
G62	16.9	16.33	26.29	21.66	30.25	30.63	19.07	24.12	16.9	
G63	16.33	15.81	24.64	20.34	28.98	29.55	18.12	23.27	16.33	
G64	15.91	15.43	23.83	18.93	27.85	28.37	17.65	22.7	15.91	
G65	15.48	14.77	23.13	18.22	26.67	27.37	17.13	22.09	15.48	
G66	14.87	14.25	22.47	17.75	25.25	25.91	16.57	21.33	14.87	
G67	14.3	13.73	21.76	17.18	24.26	24.64	16.05	20.72	14.3	
G68	13.69	13.12	21.1	16.66	23.32	23.65	15.57	20.11	13.69	
G69	13.12	12.51	20.53	16.0	22.89	23.08	15.01	19.35	13.12	
G70	12.41	11.94	19.82	15.43	22.18	22.23	14.44	18.74	12.41	
G71	11.8	11.23	19.11	15.01	21.52	21.76	13.83	18.03	11.8	
G72	11.19	10.62	18.5	14.54	20.72	21.1	13.45	17.18	11.19	
G73	10.71	10.05	17.75	13.92	20.06	20.34	12.7	16.52	10.71	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/7 15:03:26

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: