

Report No.:

Test Time: 2025/1/7 15:09:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP110CT075H113-45°-15W
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 91 mm

Voltage(V): 228.00 V
Current(A): 0.0710 A
Power(W): 15.43 W
Power Factor: 0.9460
Lamp Luminous Flux: 1094.44

Photometric Results

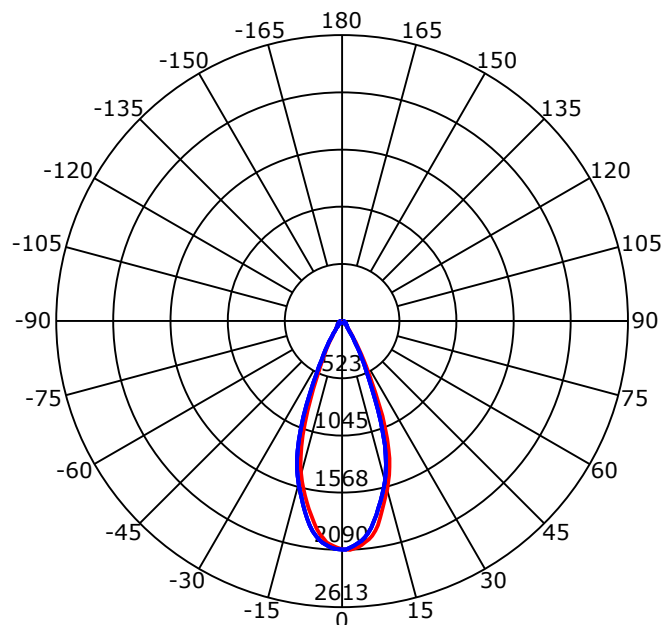
CIE Class: Direct
Luminaire Luminous Flux: 1094.443 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 70.93 lm/W
Beam Angle(50%) C0-180,C90-270: 41.6,41.6
Field Angle(10%) C0-180,C90-270: 64.8,64.6
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 2090.05 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2085.36 cd
Effective Luminous Flux: 929.12 lm
ERP(ϕ use)(120deg): 1068.25 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 41.6 deg,41.6 deg

C0-180 — C90-270

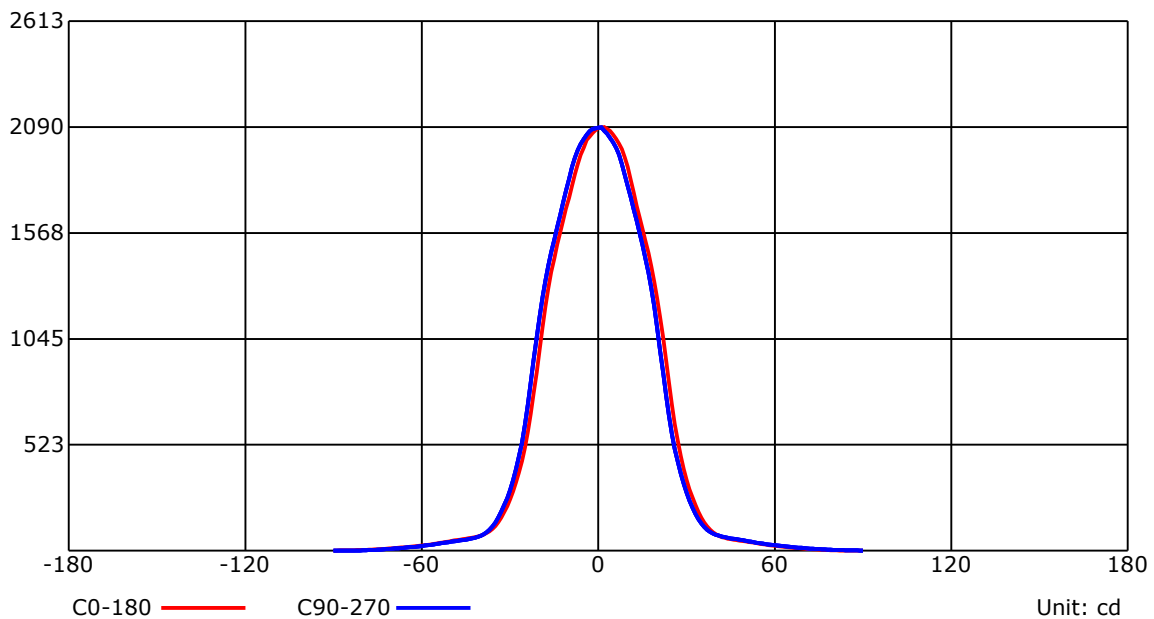
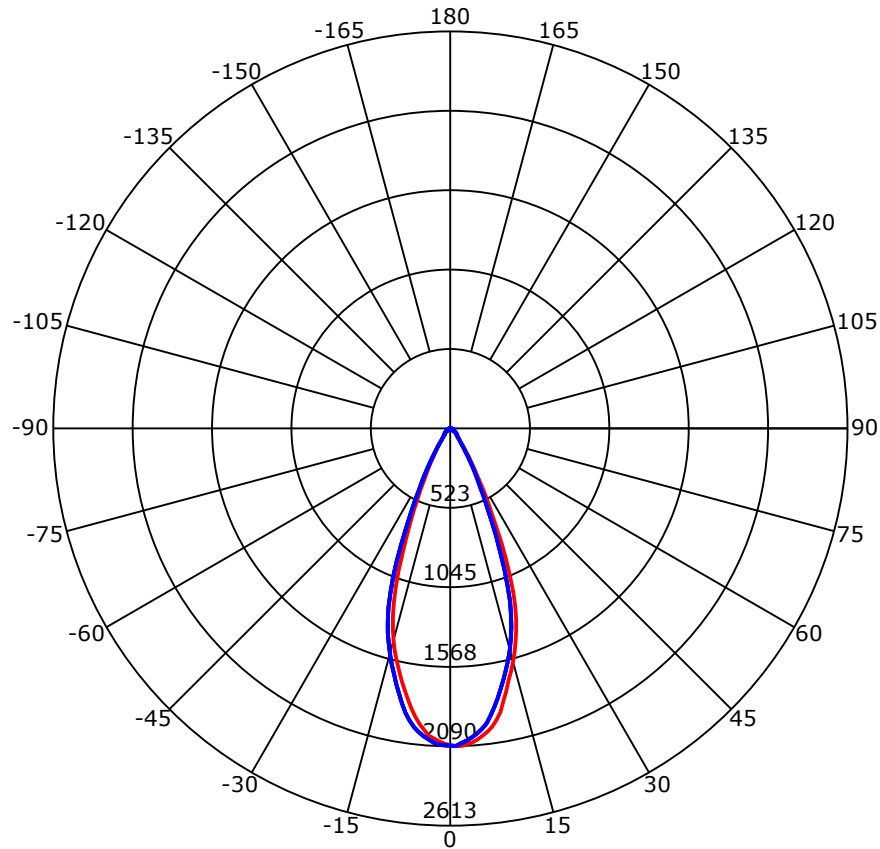
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:09:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



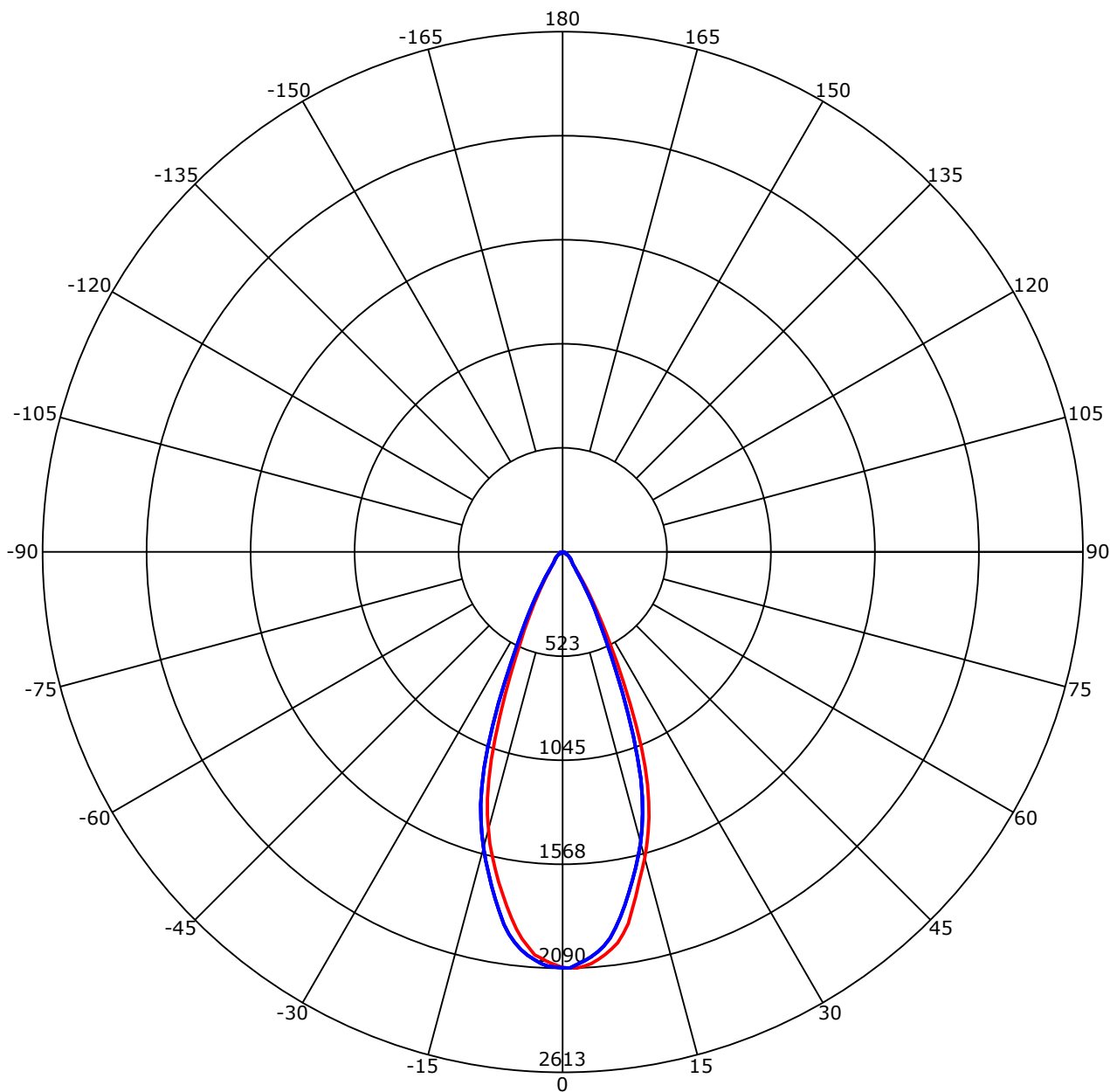
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

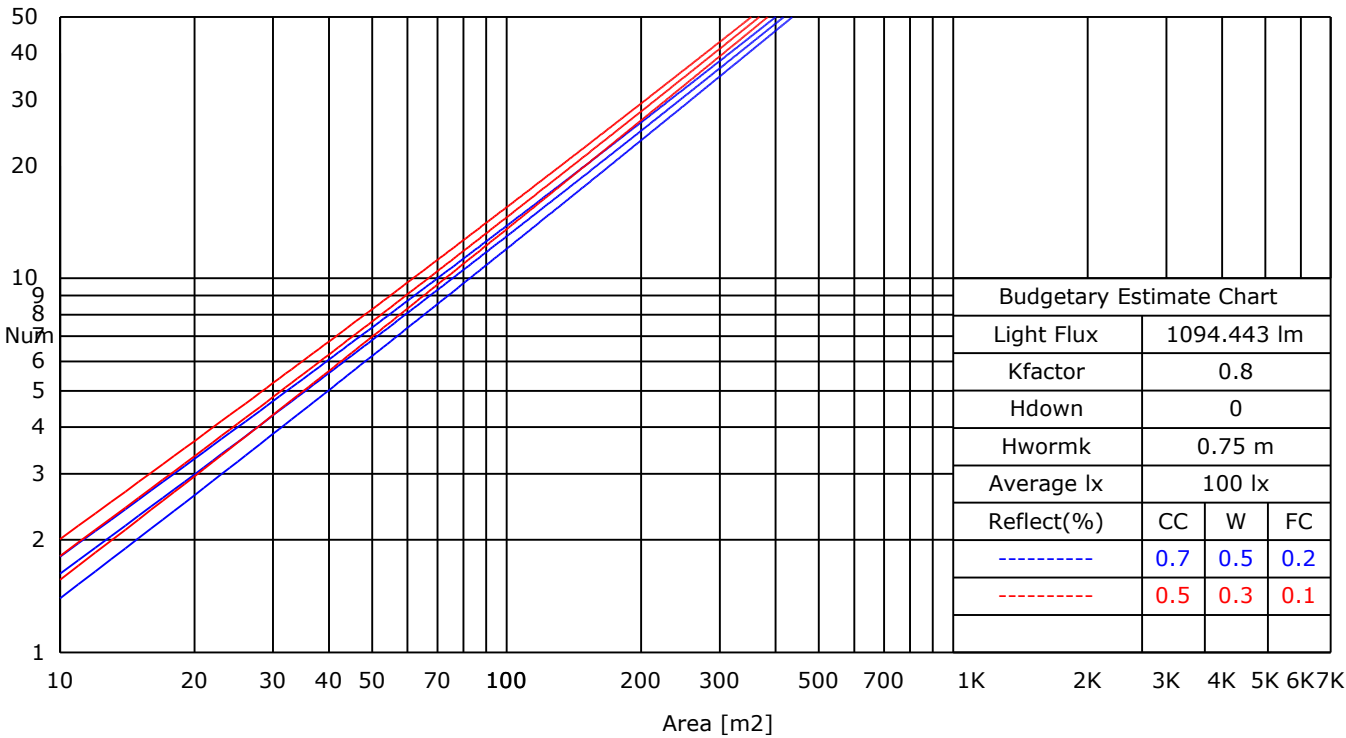
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UTILIZATION FACTORS TABLE

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	1.01	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.72	0.68
5	0.86	0.84	0.83	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.69	0.65
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	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	0.72	0.70	0.72	0.69	0.66	0.70	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



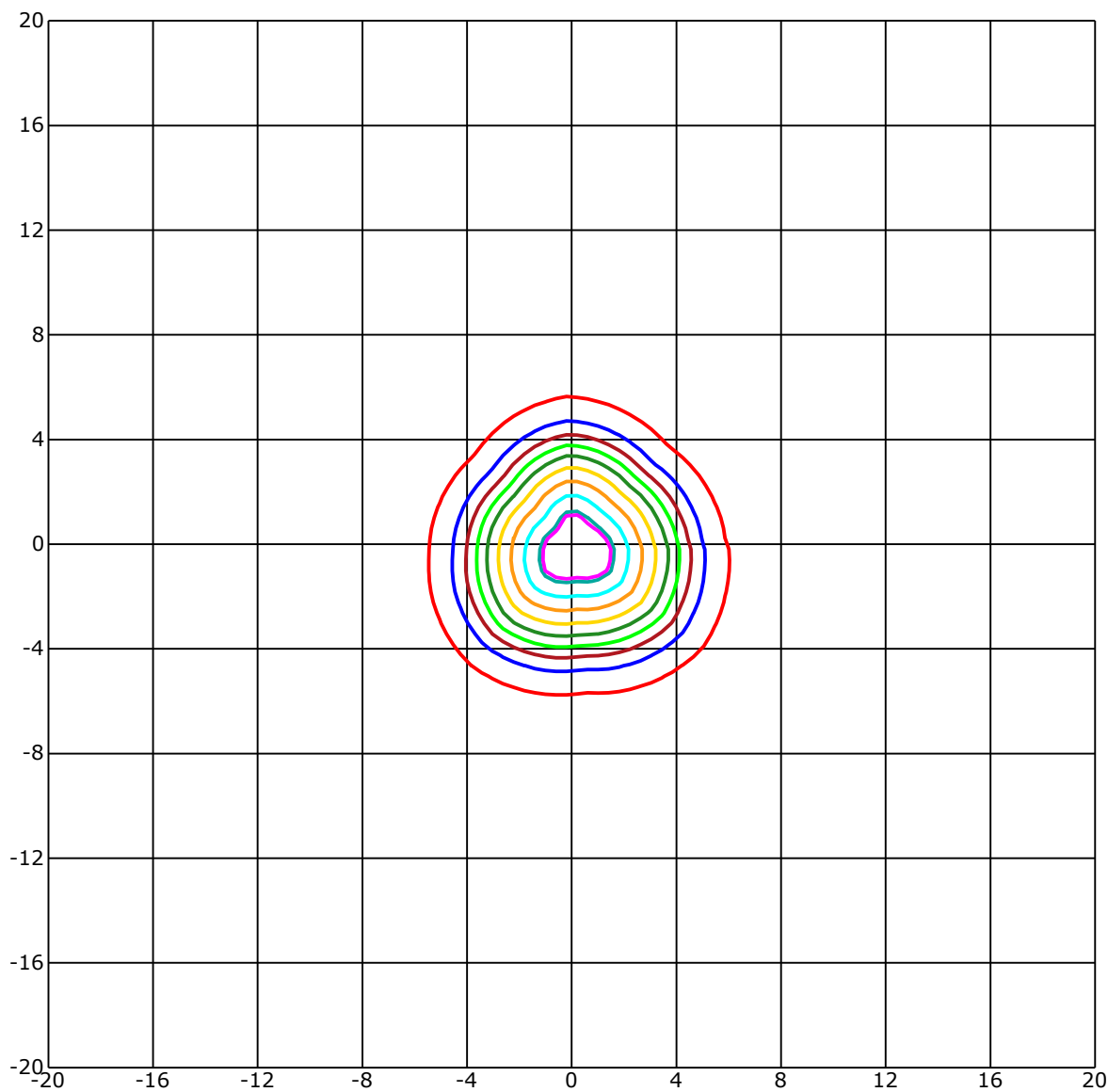
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G Range: 0 - 90 Deg
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ISOLX DIAGRAM



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

19.207(92%Emax)	10.439(50%Emax)
18.79(90%Emax)	8.351(40%Emax)
16.702(80%Emax)	6.263(30%Emax)
14.614(70%Emax)	4.176(20%Emax)
12.527(60%Emax)	2.088(10%Emax)

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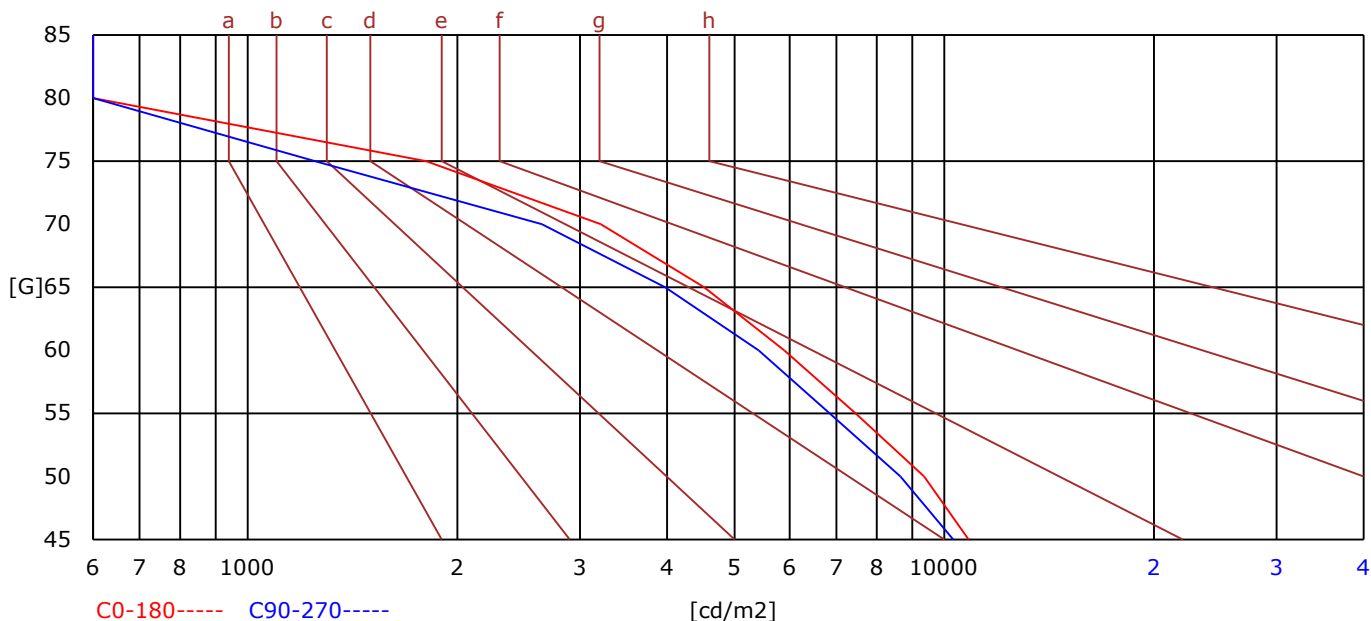
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10838	9353	7463	5890	4521	3213	1804	124	0
C90	10300	8649	6850	5416	3977	2646	1249	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



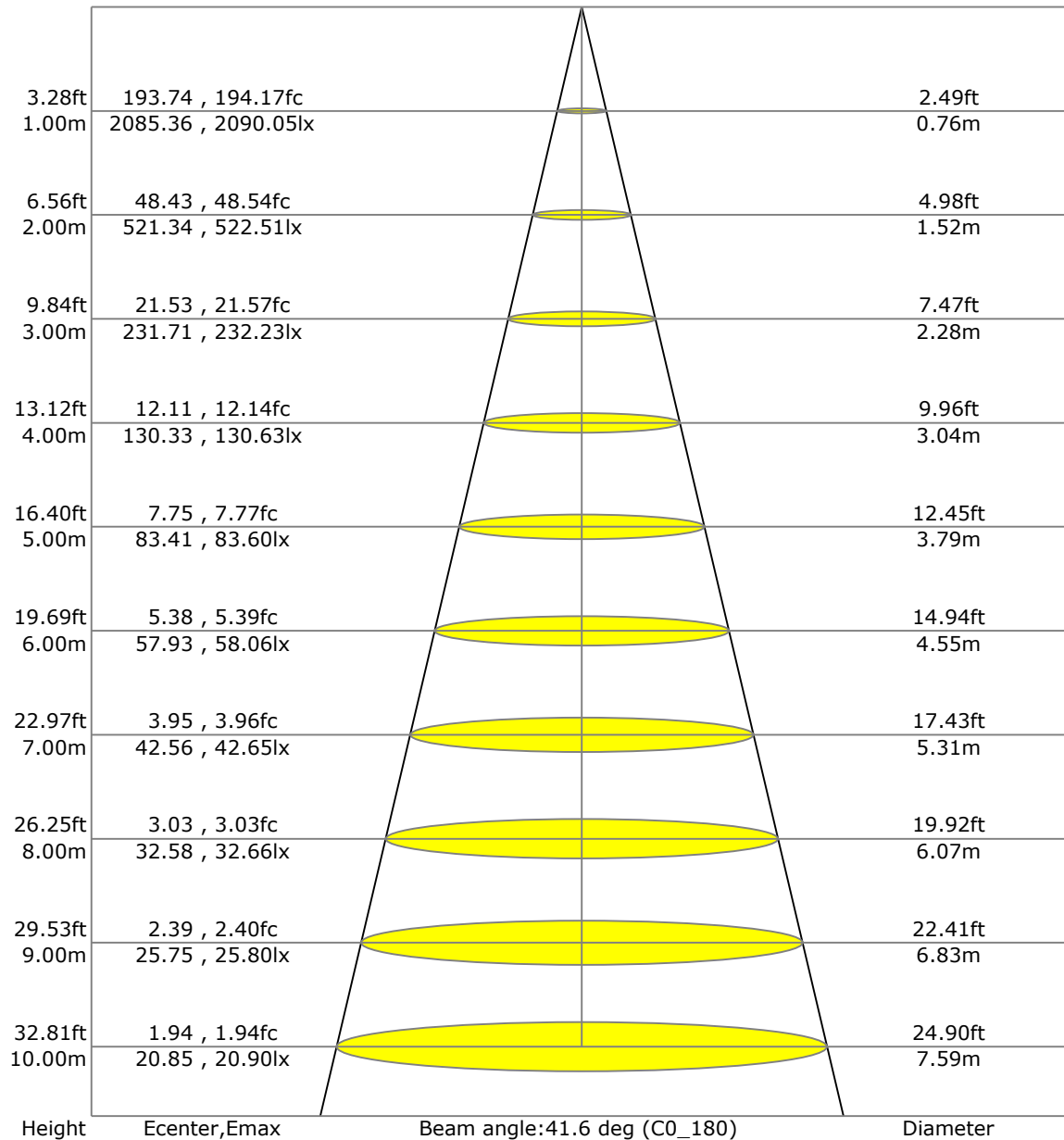
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 15:09:54

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.78 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		10.04	10.09	10.24	10.28	10.52	10.19	10.24	10.38	10.42	10.67
3H		10.08	10.13	10.28	10.32	10.57	10.21	10.27	10.42	10.46	10.70
4H		10.07	10.12	10.28	10.32	10.57	10.20	10.26	10.41	10.45	10.70
6H		10.06	10.11	10.27	10.31	10.56	10.19	10.24	10.40	10.44	10.69
8H		10.05	10.10	10.27	10.30	10.56	10.18	10.23	10.40	10.44	10.69
12H		10.04	10.09	10.26	10.30	10.55	10.17	10.22	10.39	10.43	10.68
4H 2H		10.83	10.88	11.04	11.08	11.32	11.16	11.22	11.38	11.41	11.66
3H		10.89	10.94	11.11	11.15	11.40	11.22	11.27	11.44	11.48	11.73
4H		10.88	10.94	11.11	11.15	11.41	11.21	11.26	11.44	11.47	11.73
6H		10.87	10.92	11.10	11.14	11.40	11.19	11.24	11.42	11.46	11.72
8H		10.85	10.91	11.10	11.13	11.40	11.17	11.22	11.42	11.45	11.72
12H		10.84	10.89	11.09	11.12	11.39	11.16	11.21	11.41	11.44	11.71
8H 4H		10.86	10.91	11.08	11.12	11.37	11.31	11.36	11.53	11.57	11.82
6H		10.89	10.94	11.15	11.18	11.45	11.35	11.40	11.60	11.64	11.91
8H		10.88	10.93	11.14	11.17	11.45	11.33	11.38	11.60	11.63	11.90
12H		10.86	10.91	11.13	11.16	11.44	11.32	11.36	11.59	11.61	11.90
12H 4H		10.90	10.95	11.15	11.18	11.45	11.42	11.47	11.67	11.70	11.97
6H		10.88	10.92	11.14	11.17	11.45	11.40	11.45	11.66	11.69	11.97

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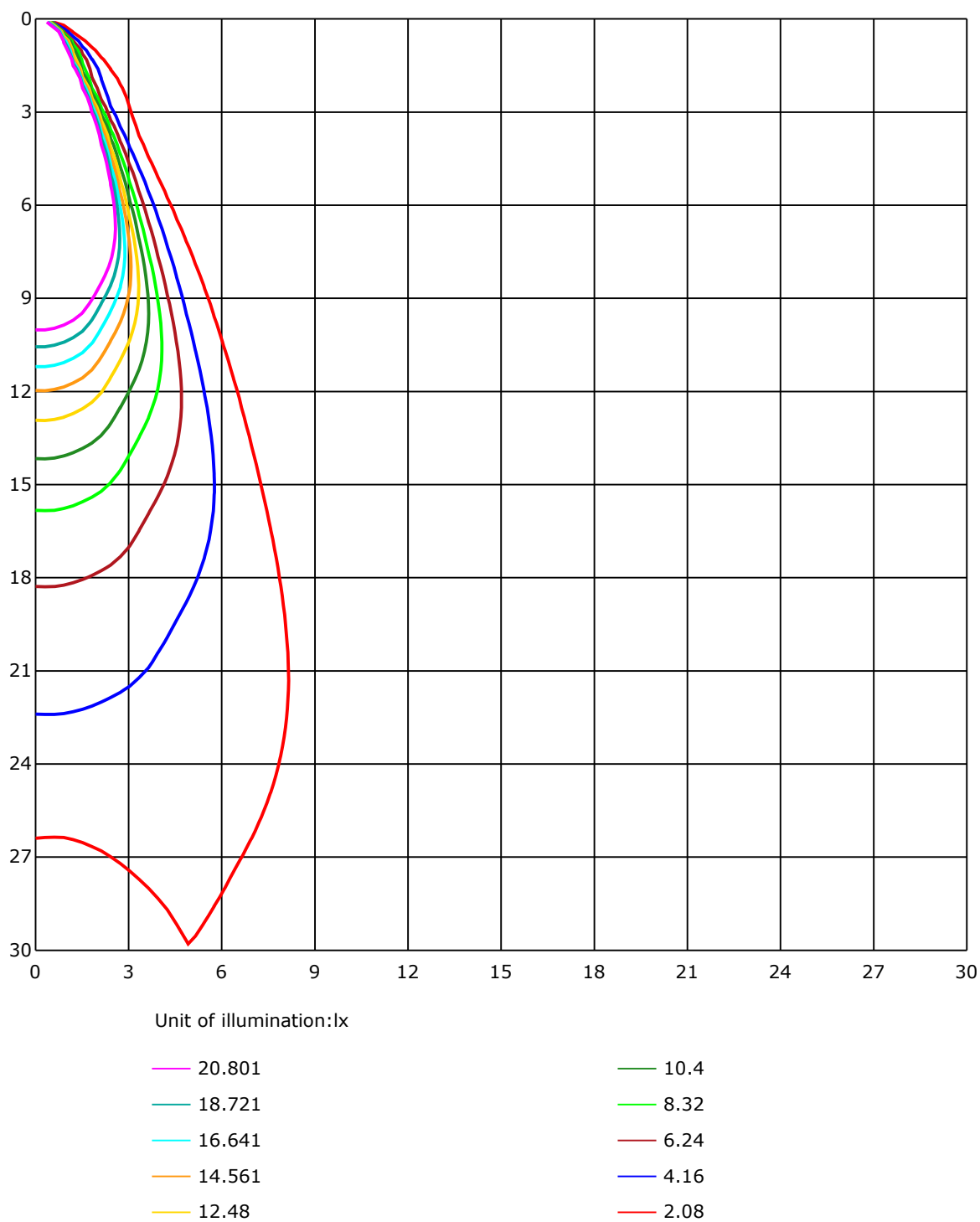
G Range: 0 - 90 Deg
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 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.78 m
 Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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SPACE ISOLX DIAGRAM



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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2085.36	2071.47	2087.43	2053.68	2085.36	2071.47	2087.43	2053.68	2085.36	
G1	2088.71	2061.32	2088.39	2031.44	2073.91	2085.63	2084.35	2069.64	2088.71	
G2	2090.05	2045.46	2071.24	2003.12	2060.44	2083.56	2080.9	2086.28	2090.05	
G3	2081.27	2021.51	2056.21	1975.35	2042.19	2078.83	2069.41	2089.86	2081.27	
G4	2070.46	1998.75	2036.77	1941.89	2026.98	2073.22	2052.08	2088.71	2070.46	
G5	2053.32	1965.15	2015.16	1897.81	1989.33	2061.41	2032.03	2085.91	2053.32	
G6	2032.17	1927.13	1988.13	1847.65	1953.43	2045.92	2006.61	2078.19	2032.17	
G7	2008.36	1878.64	1953.57	1786.93	1907.18	2018.79	1976.09	2062.83	2008.36	
G8	1980.87	1818.97	1906.54	1726.53	1855.61	1991.44	1937.89	2047.71	1980.87	
G9	1939.73	1761.0	1854.0	1668.65	1799.57	1958.21	1892.2	2020.5	1939.73	
G10	1893.67	1700.46	1798.88	1606.87	1741.28	1915.64	1834.14	1986.85	1893.67	
G11	1827.01	1644.61	1741.1	1542.98	1687.18	1866.73	1774.89	1943.82	1827.01	
G12	1766.15	1585.22	1683.32	1482.39	1627.56	1812.58	1715.22	1896.01	1766.15	
G13	1701.98	1527.16	1629.07	1415.28	1569.55	1754.98	1653.85	1837.59	1701.98	
G14	1645.85	1465.66	1569.18	1342.0	1511.9	1699.04	1596.62	1780.68	1645.85	
G15	1590.14	1402.86	1510.38	1258.25	1442.08	1641.44	1536.26	1724.18	1590.14	
G16	1531.35	1324.53	1444.28	1166.86	1374.36	1580.44	1472.23	1668.75	1531.35	
G17	1468.97	1238.8	1372.02	1069.5	1294.01	1524.31	1406.4	1610.64	1468.97	
G18	1400.98	1143.6	1292.59	964.33	1203.78	1462.76	1331.93	1553.46	1400.98	
G19	1327.25	1034.47	1204.97	857.26	1101.45	1395.46	1249.97	1490.85	1327.25	
G20	1244.82	920.2	1099.06	755.12	992.92	1316.31	1154.59	1423.41	1244.82	
G21	1154.41	807.11	989.38	656.24	880.48	1228.28	1053.46	1344.25	1154.41	
G22	1050.06	698.9	876.71	569.46	773.88	1128.62	940.33	1262.25	1050.06	
G23	940.65	600.53	766.34	493.88	673.71	1018.29	828.26	1167.23	940.65	
G24	830.05	514.06	665.48	428.29	585.09	903.05	719.36	1065.18	830.05	
G25	722.39	443.32	577.32	372.21	506.94	788.31	620.71	956.74	722.39	
G26	624.66	384.39	501.65	323.62	442.12	681.44	533.97	850.69	624.66	
G27	539.26	332.77	435.87	281.65	384.25	587.57	462.53	746.02	539.26	
G28	466.76	286.34	379.06	244.41	336.26	507.81	400.98	651.28	466.76	
G29	403.88	245.79	330.65	210.49	293.19	441.39	348.12	567.16	403.88	
G30	349.54	209.43	286.89	181.21	254.85	384.3	300.96	494.34	349.54	
G31	301.83	176.89	247.13	154.96	219.32	333.36	260.04	429.94	301.83	
G32	261.65	149.17	211.18	133.08	189.25	288.5	224.19	374.0	261.65	
G33	224.79	126.96	181.02	114.6	162.87	249.33	192.7	324.72	224.79	
G34	191.46	109.04	155.47	99.57	140.89	214.03	163.97	281.88	191.46	
G35	163.46	94.83	134.41	87.48	122.23	183.0	140.16	244.18	163.46	
G36	139.97	83.52	116.99	78.33	107.38	156.75	120.3	211.36	139.97	

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C Interval: 45.0 Deg

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Humidity: 60

Test Distance: 6.78 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	120.07	75.25	103.11	71.11	95.84	134.69	103.57	181.67	120.07	
G38	103.66	69.04	92.58	66.01	87.16	117.22	90.7	156.94	103.66	
G39	90.79	64.36	84.54	61.46	80.08	103.66	81.18	136.2	90.79	
G40	81.36	60.72	78.38	58.1	74.88	92.76	73.5	118.97	81.36	
G41	73.27	57.69	73.92	55.21	70.65	84.63	67.99	105.22	73.27	
G42	67.44	55.16	69.5	52.73	67.11	78.42	63.3	94.37	67.44	
G43	62.93	53.09	66.33	50.66	64.17	73.6	59.67	85.78	62.93	
G44	59.48	51.02	63.62	48.77	61.87	69.87	56.86	79.34	59.48	
G45	56.63	49.05	60.95	46.61	59.16	66.84	54.43	74.28	56.63	
G46	54.15	46.84	58.66	44.59	57.05	64.13	52.36	70.06	54.15	
G47	51.9	45.1	56.59	42.43	54.84	61.6	50.24	66.56	51.9	
G48	50.06	42.93	54.38	40.45	52.73	59.39	47.99	63.76	50.06	
G49	47.44	40.87	52.22	37.79	50.43	57.23	46.15	61.0	47.44	
G50	45.69	38.48	49.69	35.58	47.49	55.16	44.18	58.66	45.69	
G51	43.76	36.04	46.52	33.14	44.82	53.05	42.24	56.4	43.76	
G52	41.79	33.69	43.95	31.07	42.57	50.84	40.04	54.47	41.79	
G53	39.3	31.35	41.51	29.1	39.81	48.63	37.65	52.22	39.3	
G54	36.87	29.24	38.98	27.08	37.6	45.32	35.17	49.55	36.87	
G55	34.25	27.4	36.91	25.14	35.3	42.93	32.96	46.52	34.25	
G56	32.04	25.37	34.43	23.54	33.33	40.18	30.84	43.81	32.04	
G57	29.93	23.63	32.36	21.83	31.12	37.88	28.91	41.42	29.93	
G58	28.04	21.97	30.43	20.27	29.33	35.53	26.8	38.8	28.04	
G59	25.93	20.46	28.5	18.71	27.49	33.42	25.01	36.5	25.93	
G60	24.18	18.85	26.8	17.33	25.83	31.4	23.26	34.38	24.18	
G61	22.48	17.61	25.05	15.86	24.04	29.51	21.65	32.13	22.48	
G62	20.87	16.09	23.35	14.57	22.52	27.58	20.04	30.16	20.87	
G63	19.21	14.66	21.88	13.38	20.96	26.16	18.48	28.32	19.21	
G64	17.79	13.38	20.46	11.95	19.63	24.27	17.1	26.57	17.79	
G65	16.36	12.23	18.98	10.76	18.16	22.75	15.81	24.87	16.36	
G66	15.08	11.08	17.7	9.61	16.87	21.1	14.34	23.31	15.08	
G67	13.74	9.98	16.32	8.6	15.49	19.67	13.15	21.65	13.74	
G68	12.5	8.83	15.03	7.58	14.3	18.25	11.86	20.32	12.5	
G69	11.31	7.91	13.93	6.62	13.15	16.96	10.8	18.71	11.31	
G70	10.2	7.03	12.92	5.79	12.14	15.58	9.75	17.42	10.2	
G71	9.1	6.11	11.72	4.92	10.99	14.43	8.87	16.0	9.1	
G72	8.09	5.24	10.66	4.23	10.07	13.24	7.68	14.76	8.09	
G73	7.17	4.46	9.79	3.45	9.01	12.37	6.9	13.47	7.17	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

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