

Report No.:

Test Time: 2024/10/26 14:09:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-60°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

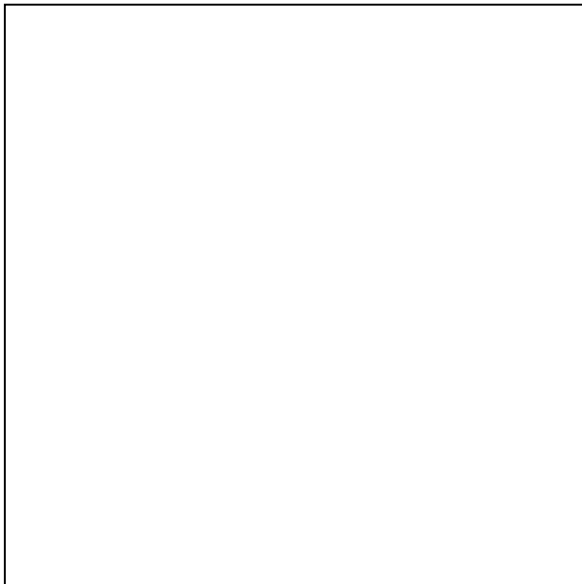
Voltage(V): 219.80 V
Current(A): 0.0950 A
Power(W): 20.45 W
Power Factor: 0.9720
Lamp Luminous Flux: 2157.53

Photometric Results

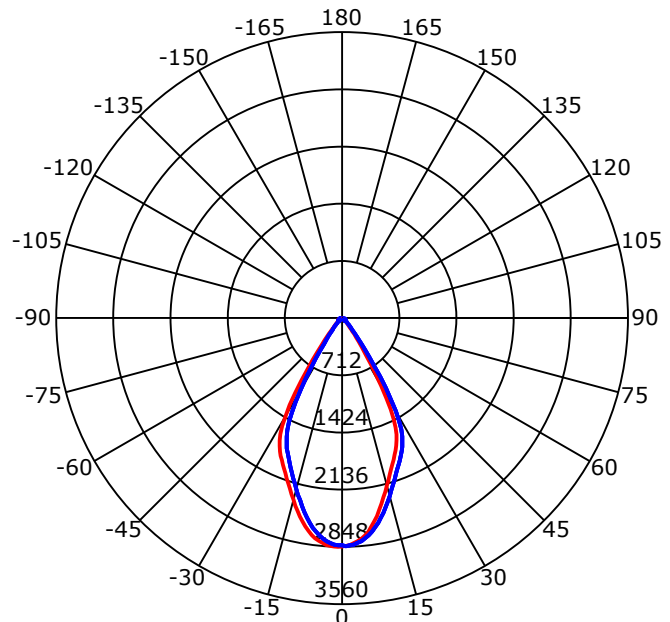
CIE Class: Direct
Luminaire Luminous Flux: 2157.534 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.50 lm/W
Beam Angle(50%) C0-180,C90-270: 56.8,56.6
Field Angle(10%) C0-180,C90-270: 75.5,75.6
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 2847.96 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2844.94 cd
Effective Luminous Flux: 1954.04 lm
ERP(ϕ use)(120deg): 2120.49 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 56.8 deg,56.6 deg

C0-180 — C90-270

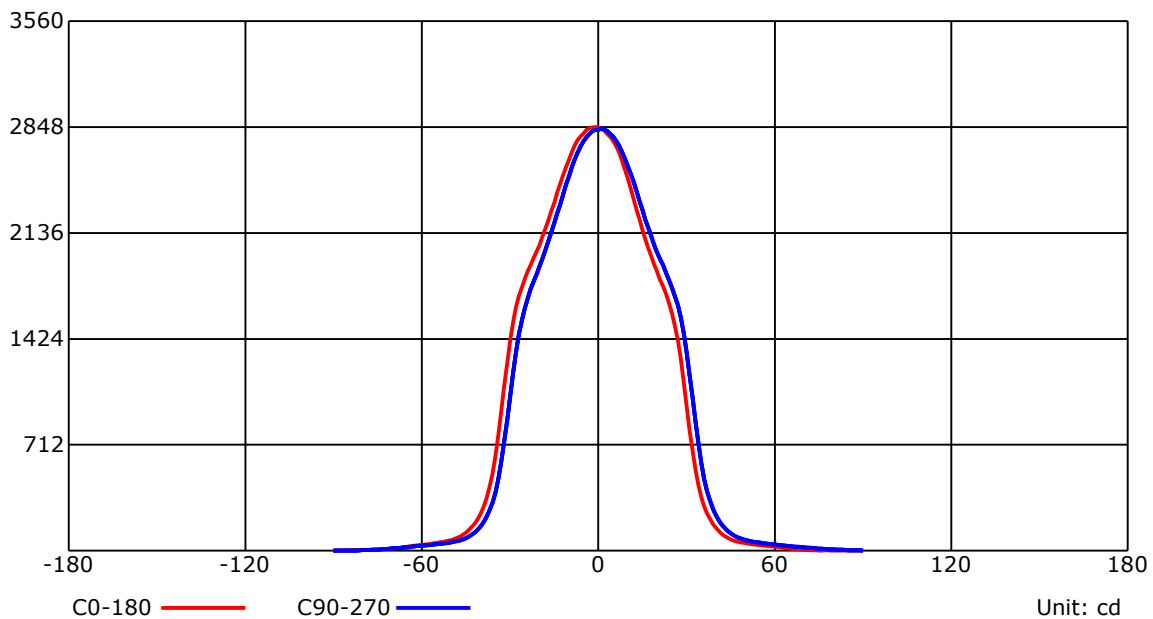
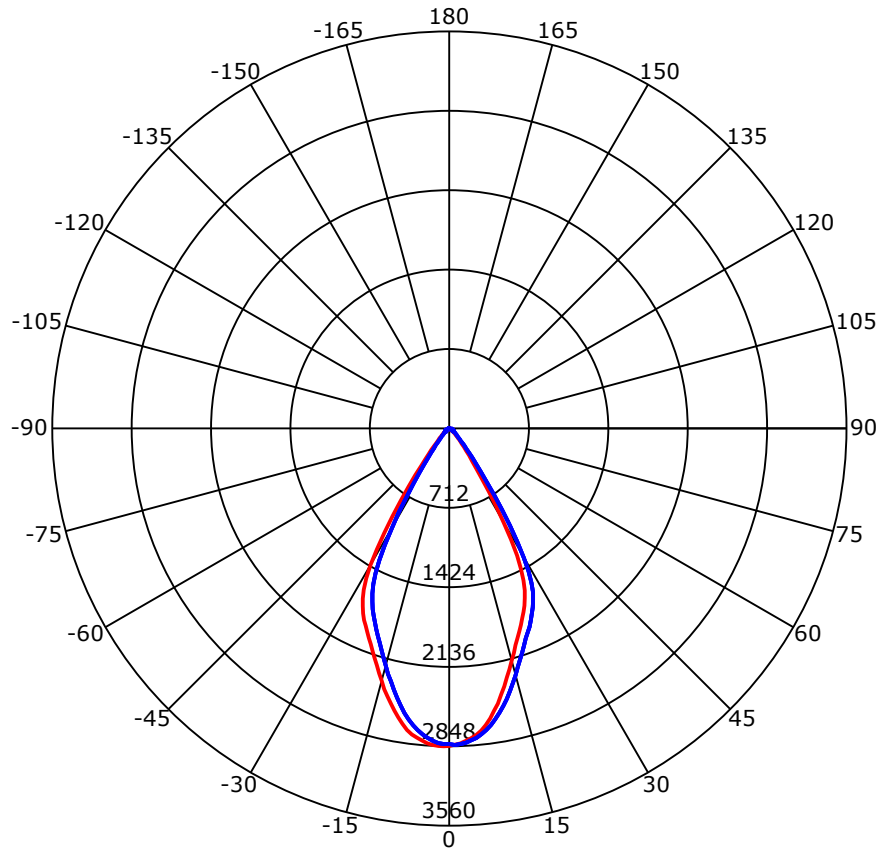
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



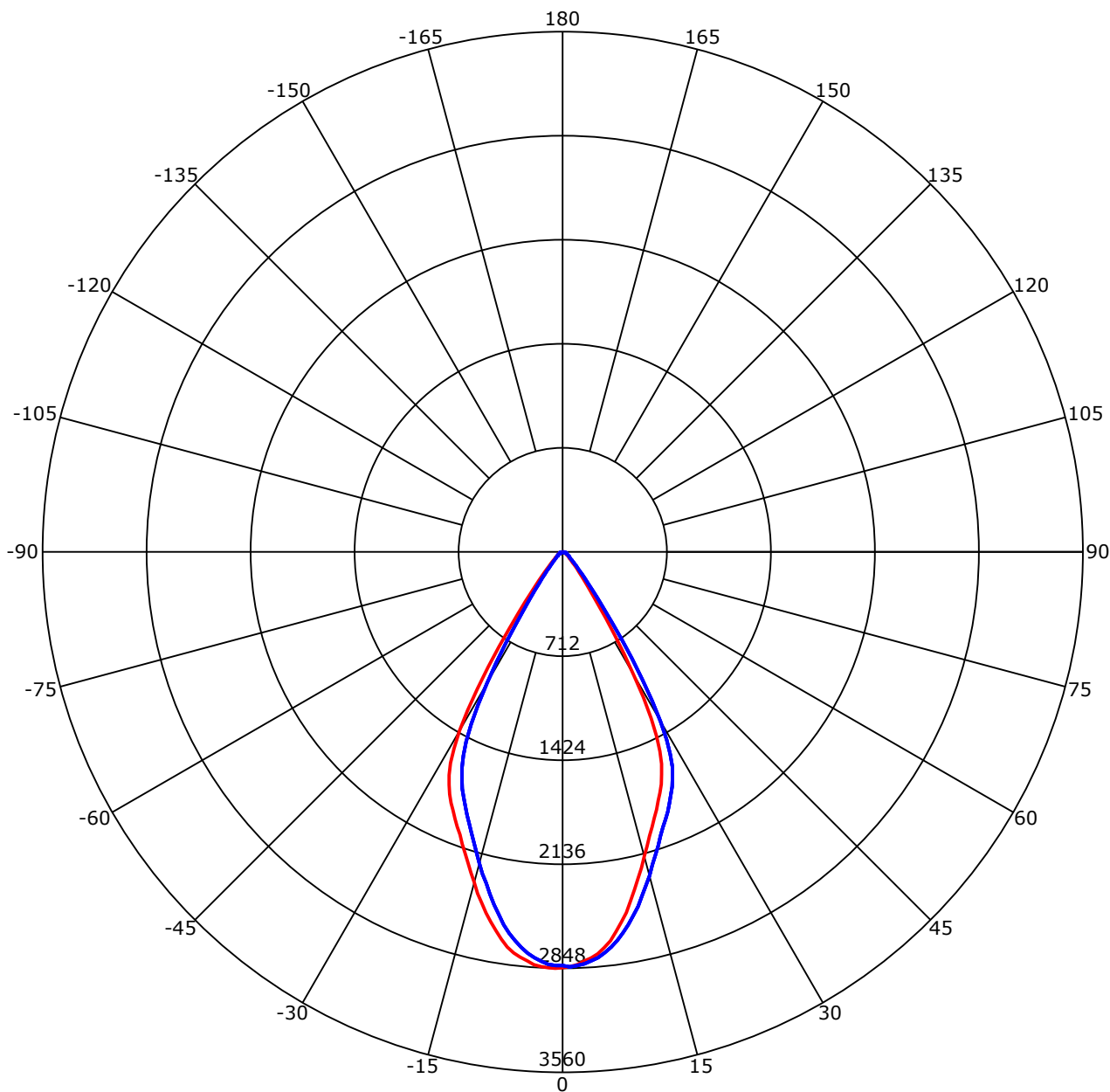
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Humidity: 1
Test Distance: 6.81 m
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

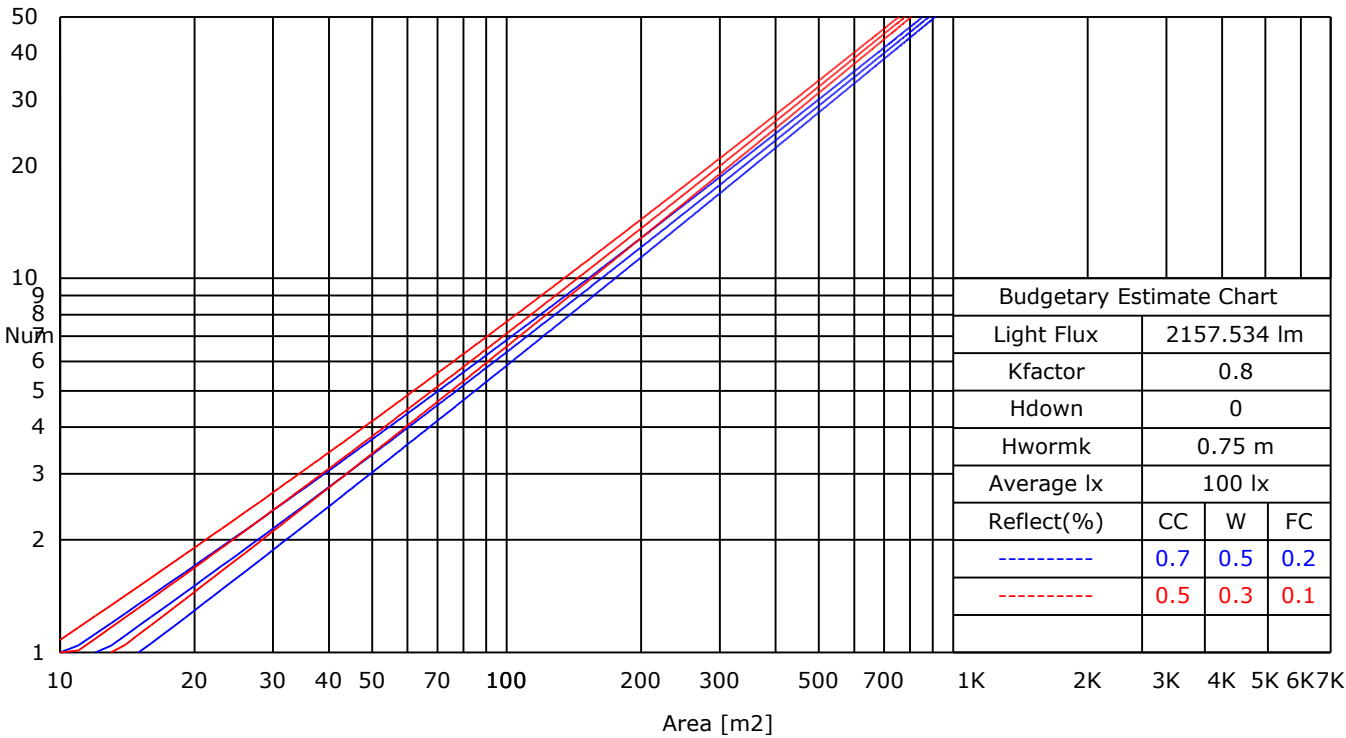
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UTILIZATION FACTORS TABLE

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	1.05	1.03	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.84	0.79
2	1.00	0.99	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.83	0.84	0.80	0.77	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.69	0.65
7	0.83	0.81	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.75	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



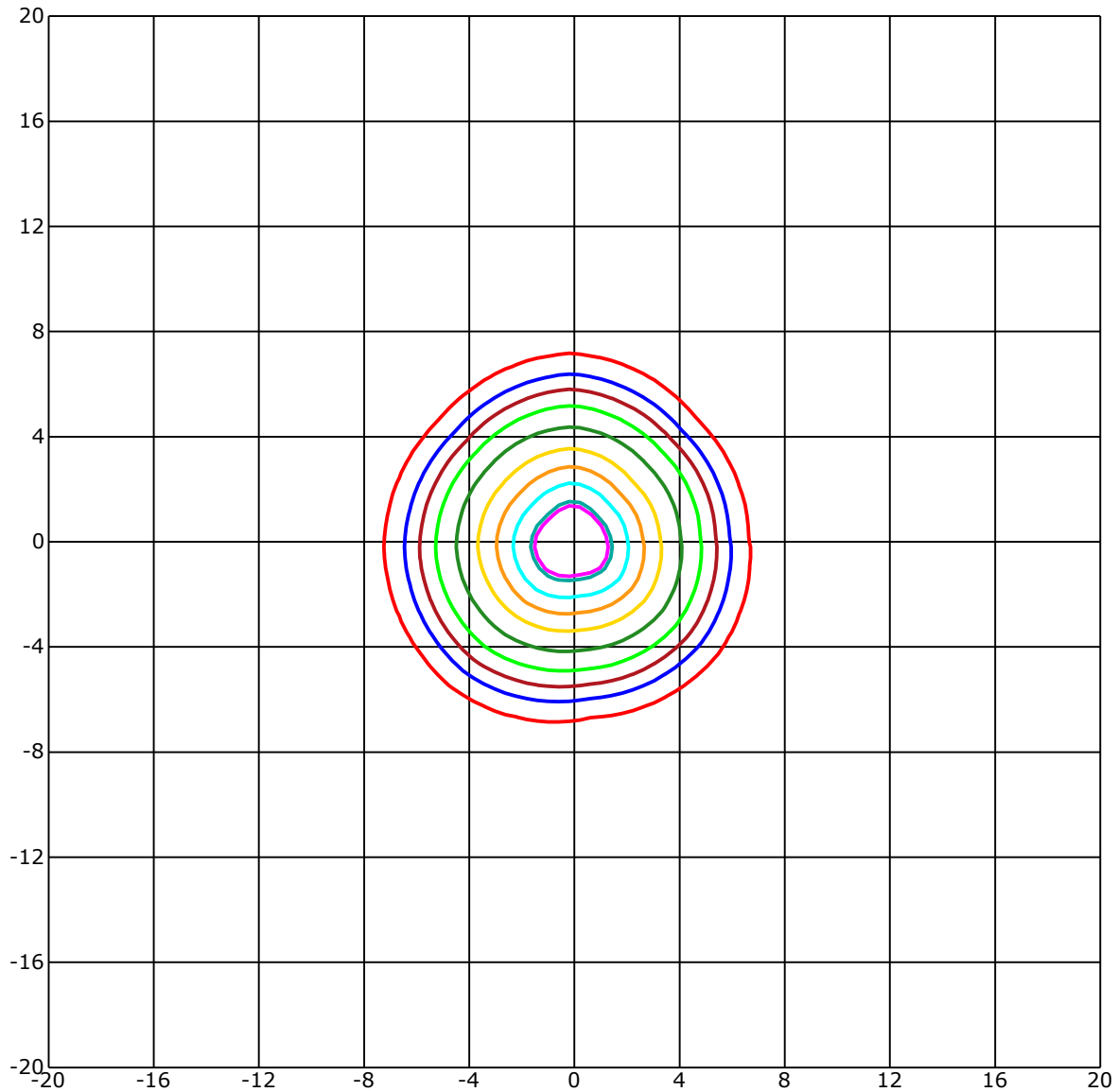
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
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ISOLX DIAGRAM



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

26.189(92%Emax)	14.233(50%Emax)
25.62(90%Emax)	11.387(40%Emax)
22.773(80%Emax)	8.54(30%Emax)
19.927(70%Emax)	5.693(20%Emax)
17.08(60%Emax)	2.847(10%Emax)

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Test Speed: High
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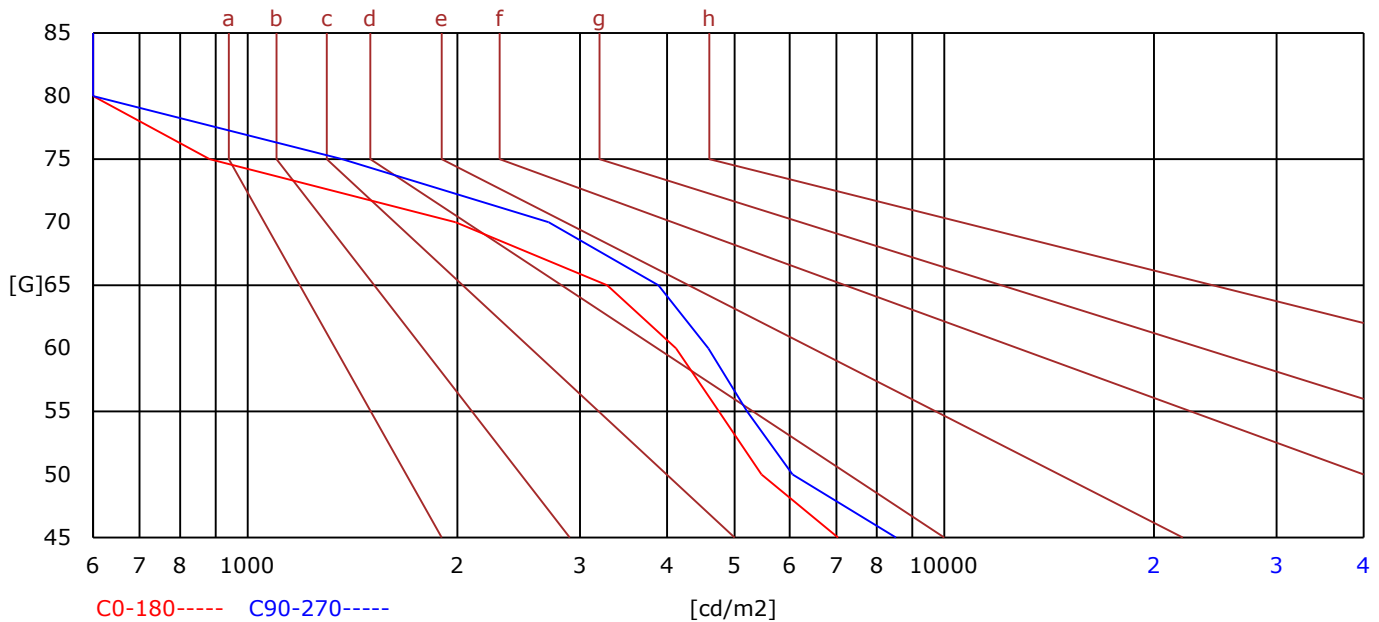
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7035	5464	4749	4122	3282	1987	882	337	128
C90	8520	6054	5211	4585	3889	2704	1367	529	511
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



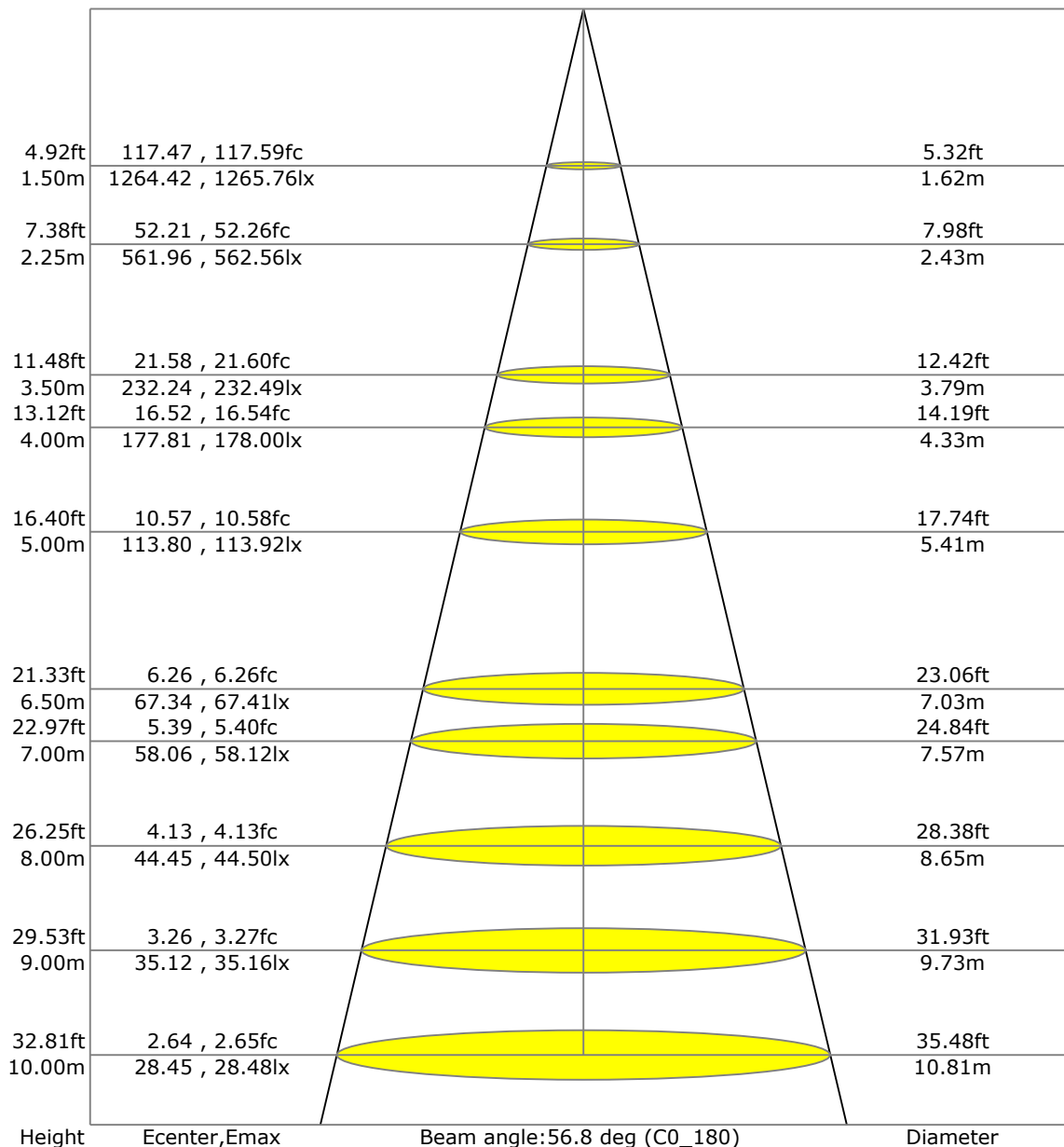
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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: 6.81
 Operators: QC01
 Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 1
 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	7.82	7.87	8.02	8.06	8.30	8.09	8.14	8.29	8.33	8.57
	3H	7.83	7.89	8.04	8.08	8.32	8.08	8.13	8.29	8.33	8.57
	4H	7.82	7.88	8.03	8.07	8.32	8.07	8.12	8.28	8.31	8.56
	6H	7.81	7.86	8.02	8.06	8.31	8.05	8.10	8.26	8.30	8.55
	8H	7.80	7.85	8.02	8.05	8.31	8.04	8.09	8.26	8.29	8.55
	12H	7.79	7.84	8.01	8.05	8.30	8.03	8.08	8.25	8.29	8.54
4H	2H	7.99	8.04	8.20	8.24	8.49	8.67	8.72	8.88	8.92	9.17
	3H	8.01	8.06	8.23	8.27	8.52	8.68	8.73	8.90	8.93	9.19
	4H	8.00	8.05	8.23	8.26	8.52	8.66	8.71	8.88	8.92	9.18
	6H	7.98	8.03	8.22	8.25	8.51	8.63	8.68	8.87	8.90	9.17
	8H	7.97	8.02	8.21	8.24	8.51	8.62	8.67	8.86	8.89	9.16
	12H	7.96	8.00	8.20	8.23	8.50	8.61	8.65	8.85	8.88	9.15
8H	4H	7.97	8.02	8.19	8.23	8.48	8.78	8.83	9.00	9.04	9.29
	6H	7.95	7.99	8.20	8.23	8.50	8.76	8.81	9.02	9.05	9.32
	8H	7.94	7.98	8.20	8.22	8.50	8.75	8.79	9.01	9.04	9.31
	12H	7.92	7.96	8.19	8.21	8.50	8.73	8.77	9.00	9.02	9.31
12H	4H	7.96	8.01	8.21	8.24	8.51	8.82	8.86	9.06	9.09	9.36
	6H	7.94	7.98	8.20	8.22	8.50	8.79	8.83	9.05	9.08	9.36

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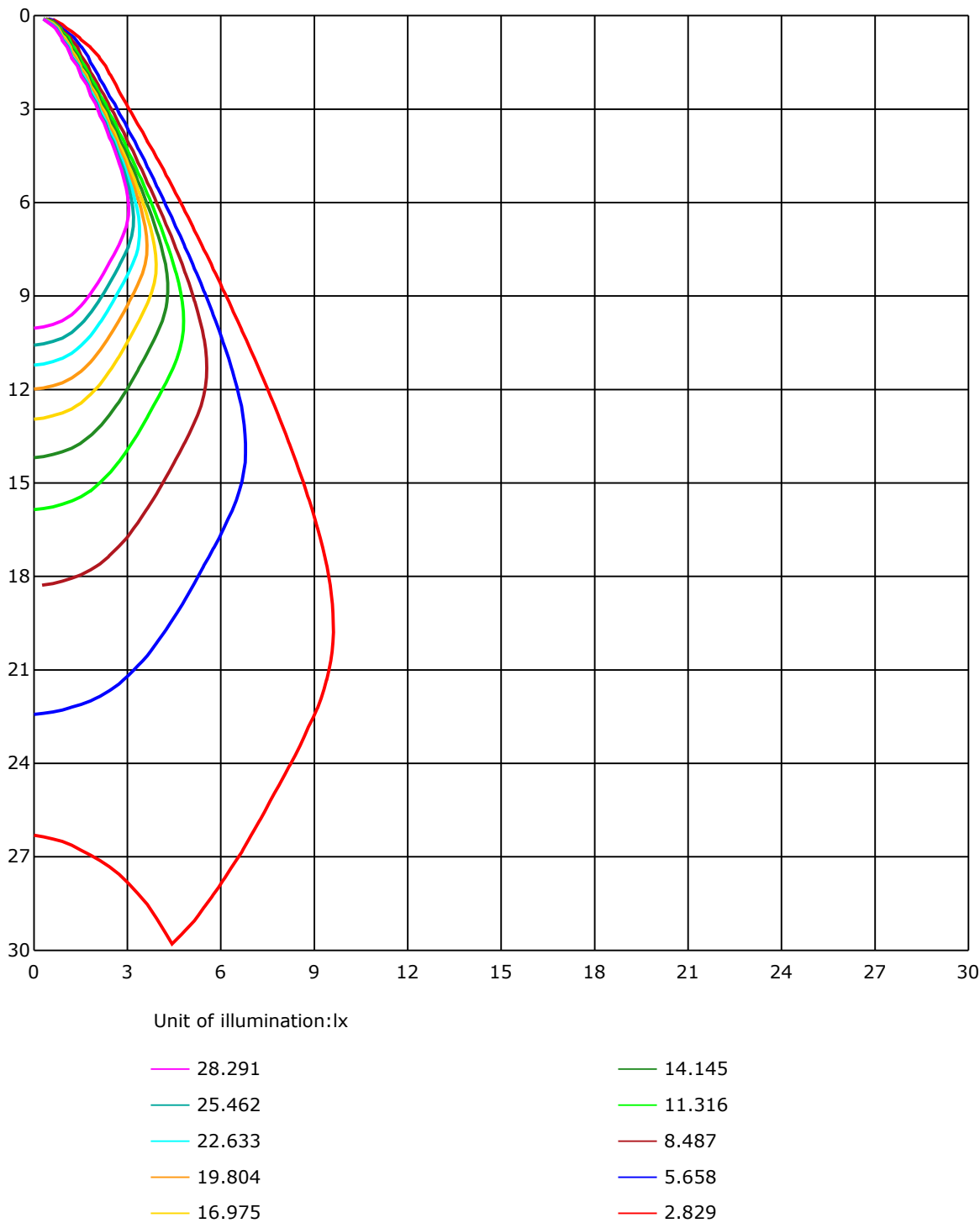
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.81
 Operators: QC01
 Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 1
 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	2844.94	2821.57	2828.71	2844.71	2844.94	2821.57	2828.71	2844.71	2844.94	
G1	2835.95	2806.13	2838.64	2844.01	2847.96	2823.05	2828.2	2838.36	2835.95	
G2	2825.19	2793.97	2829.87	2824.26	2846.43	2830.38	2822.17	2831.21	2825.19	
G3	2802.79	2780.16	2822.03	2805.34	2840.63	2829.55	2803.39	2829.45	2802.79	
G4	2782.98	2757.8	2802.6	2782.1	2830.47	2815.45	2781.73	2814.47	2782.98	
G5	2758.45	2724.27	2785.4	2754.28	2807.33	2795.18	2754.6	2796.34	2758.45	
G6	2722.09	2682.21	2755.2	2721.3	2786.37	2773.66	2718.38	2764.48	2722.09	
G7	2680.91	2635.83	2722.93	2685.73	2762.3	2744.45	2678.45	2723.21	2680.91	
G8	2623.4	2579.62	2682.21	2638.24	2728.35	2715.65	2633.75	2682.35	2623.4	
G9	2563.02	2519.8	2637.46	2593.26	2681.98	2678.82	2581.99	2635.79	2563.02	
G10	2504.87	2466.05	2588.07	2534.83	2631.52	2634.12	2518.73	2573.32	2504.87	
G11	2430.48	2394.68	2532.51	2482.14	2577.26	2582.92	2459.05	2517.62	2430.48	
G12	2362.54	2324.51	2478.85	2418.65	2523.6	2529.21	2392.87	2456.45	2362.54	
G13	2290.61	2247.57	2414.8	2361.8	2464.33	2463.68	2325.07	2406.41	2290.61	
G14	2227.21	2190.16	2350.71	2297.94	2408.59	2395.23	2269.51	2338.28	2227.21	
G15	2156.3	2114.52	2292.23	2246.88	2339.26	2334.85	2204.53	2276.97	2156.3	
G16	2095.04	2053.72	2225.36	2188.35	2282.03	2280.82	2138.45	2205.23	2095.04	
G17	2030.58	1995.75	2167.99	2136.64	2220.4	2207.5	2080.53	2147.12	2030.58	
G18	1977.94	1946.22	2112.48	2080.25	2165.81	2151.16	2021.3	2083.96	1977.94	
G19	1923.26	1897.29	2054.65	2031.27	2113.82	2091.52	1965.88	2028.68	1923.26	
G20	1875.82	1849.8	2003.4	1989.35	2056.83	2033.08	1913.66	1973.72	1875.82	
G21	1821.24	1806.95	1960.36	1945.11	2012.54	1977.66	1861.03	1926.7	1821.24	
G22	1776.81	1765.58	1917.23	1893.72	1966.81	1935.83	1809.22	1868.49	1776.81	
G23	1725.98	1709.7	1867.71	1845.31	1919.92	1890.71	1760.44	1820.17	1725.98	
G24	1664.9	1653.91	1819.29	1800.0	1879.81	1846.14	1697.37	1763.82	1664.9	
G25	1599.98	1592.56	1770.55	1748.19	1830.14	1794.99	1631.47	1703.95	1599.98	
G26	1516.08	1507.83	1714.2	1666.43	1772.4	1743.51	1551.65	1631.84	1516.08	
G27	1413.36	1398.29	1652.15	1578.5	1712.39	1683.08	1453.89	1547.15	1413.36	
G28	1290.83	1269.45	1568.25	1478.61	1635.87	1610.27	1333.92	1448.88	1290.83	
G29	1137.05	1118.36	1465.72	1347.69	1534.21	1522.16	1192.98	1322.04	1137.05	
G30	974.73	955.67	1336.75	1188.71	1413.08	1408.95	1038.55	1182.41	974.73	
G31	814.6	796.18	1186.12	1032.56	1264.4	1269.82	880.64	1025.52	814.6	
G32	669.72	652.74	1028.11	877.95	1104.03	1113.31	730.84	866.86	669.72	
G33	542.14	527.9	868.95	726.95	935.82	952.19	596.44	723.19	542.14	
G34	441.45	430.93	723.28	592.04	778.24	792.85	482.27	589.58	441.45	
G35	359.92	352.41	590.32	483.84	636.98	645.37	390.39	480.04	359.92	
G36	298.62	292.54	481.43	397.63	518.3	521.92	323.89	394.94	298.62	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	249.6	244.96	398.88	330.71	423.78	425.41	269.26	330.06	249.6	
G38	210.59	205.72	332.01	277.19	352.23	350.42	226.87	277.84	210.59	
G39	177.71	174.7	279.09	233.23	295.55	293.56	192.23	235.03	177.71	
G40	152.35	150.35	236.66	197.24	250.34	248.16	164.59	200.76	152.35	
G41	131.38	130.27	202.11	168.53	213.61	211.24	142.61	173.91	131.38	
G42	113.06	114.69	173.96	145.76	183.88	182.63	123.92	152.11	113.06	
G43	97.85	102.12	151.51	127.58	158.88	158.61	108.06	134.86	97.85	
G44	85.93	91.55	132.87	112.6	139.45	139.78	95.49	120.25	85.93	
G45	75.96	82.83	117.66	100.31	122.11	123.55	84.96	108.33	75.96	
G46	68.17	75.82	104.62	90.29	107.13	110.47	76.43	97.81	68.17	
G47	62.14	70.21	93.96	81.71	95.07	99.8	69.8	89.6	62.14	
G48	57.32	65.44	85.1	74.94	85.75	91.41	64.28	82.69	57.32	
G49	53.56	61.82	77.87	69.47	77.73	84.73	60.06	77.08	53.56	
G50	50.5	58.48	71.88	64.79	71.7	78.28	56.25	72.3	50.5	
G51	47.12	55.74	67.15	60.98	66.5	73.74	53.24	68.4	47.12	
G52	44.52	53.05	63.07	57.78	62.56	69.7	50.46	65.02	44.52	
G53	41.92	50.64	59.64	55.09	58.8	66.13	47.58	61.63	41.92	
G54	39.79	47.81	56.35	52.17	55.47	63.03	45.36	58.57	39.79	
G55	37.29	45.36	53.61	49.76	52.36	60.2	43.13	55.88	37.29	
G56	35.29	43.18	51.06	46.93	49.95	57.88	41.18	53.19	35.29	
G57	33.3	40.81	48.37	44.61	46.7	54.82	39.37	50.83	33.3	
G58	31.26	38.72	46.1	42.39	44.06	52.4	37.43	48.0	31.26	
G59	29.03	36.45	43.92	40.39	41.65	49.81	35.85	45.54	29.03	
G60	26.76	34.32	41.83	38.17	39.51	47.21	33.72	43.08	26.76	
G61	24.49	32.0	40.02	36.03	37.1	44.66	32.0	40.63	24.49	
G62	22.08	29.96	37.94	33.85	34.74	42.34	29.77	38.12	22.08	
G63	18.55	27.73	35.99	31.77	32.28	39.93	27.73	35.66	18.55	
G64	15.07	25.37	33.9	29.68	29.96	37.7	25.0	33.34	15.07	
G65	12.99	23.1	31.67	27.36	27.32	35.11	23.1	30.93	12.99	
G66	11.36	20.64	29.08	25.04	23.47	32.65	21.38	28.24	11.36	
G67	9.65	18.27	27.08	22.77	20.08	30.14	19.85	25.65	9.65	
G68	8.25	15.77	25.46	20.45	18.18	27.55	18.36	22.86	8.25	
G69	6.91	13.31	23.88	18.09	16.09	24.95	16.88	19.99	6.91	
G70	5.61	11.32	22.17	15.4	14.38	22.21	15.35	17.39	5.61	
G71	4.36	9.04	20.5	13.12	12.66	19.48	13.82	14.7	4.36	
G72	3.48	7.56	18.97	10.85	11.13	17.16	12.34	12.8	3.48	
G73	2.5	6.17	17.44	9.04	9.74	14.7	11.13	10.99	2.5	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.81
Operators: QC01
Test Date: 2024/10/26 14:09:57

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.81 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: