

Report No.:

Test Time: 2025/7/16 18:00:44

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

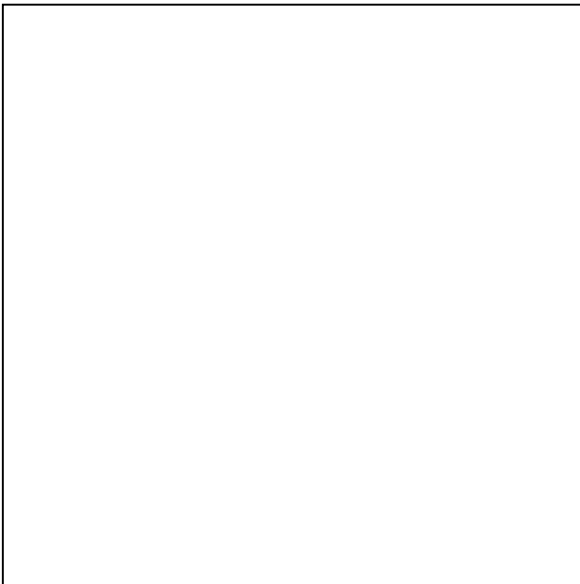
Voltage(V): 219.70 V
Current(A): 0.3400 A
Power(W): 72.30 W
Power Factor: 0.9650
Lamp Luminous Flux: 6561.58

Photometric Results

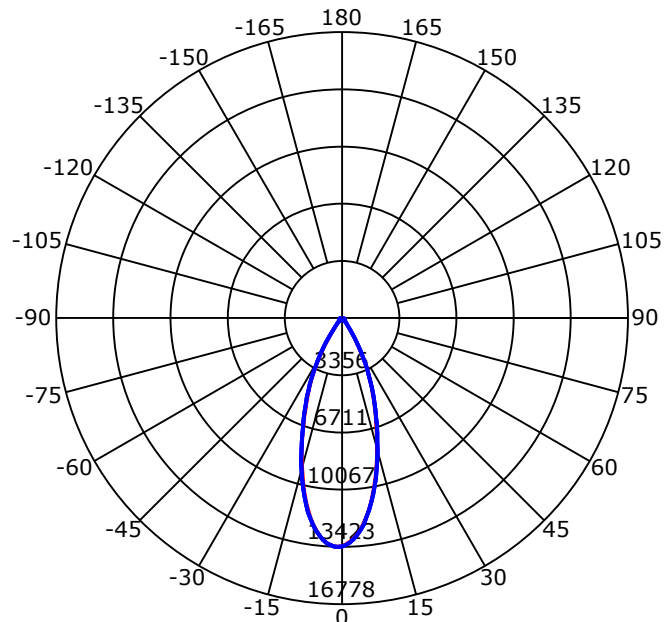
CIE Class: Direct
Luminaire Luminous Flux: 6561.584 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.75 lm/W
Beam Angle(50%) C0-180,C90-270: 37.3,37.8
Field Angle(10%) C0-180,C90-270: 66.5,67.0
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 13422.61 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 13381.88 cd
Effective Luminous Flux: 5786.55 lm
ERP(ϕ use)(120deg): 6461.30 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.3 deg,37.8 deg

C0-180 — C90-270 —

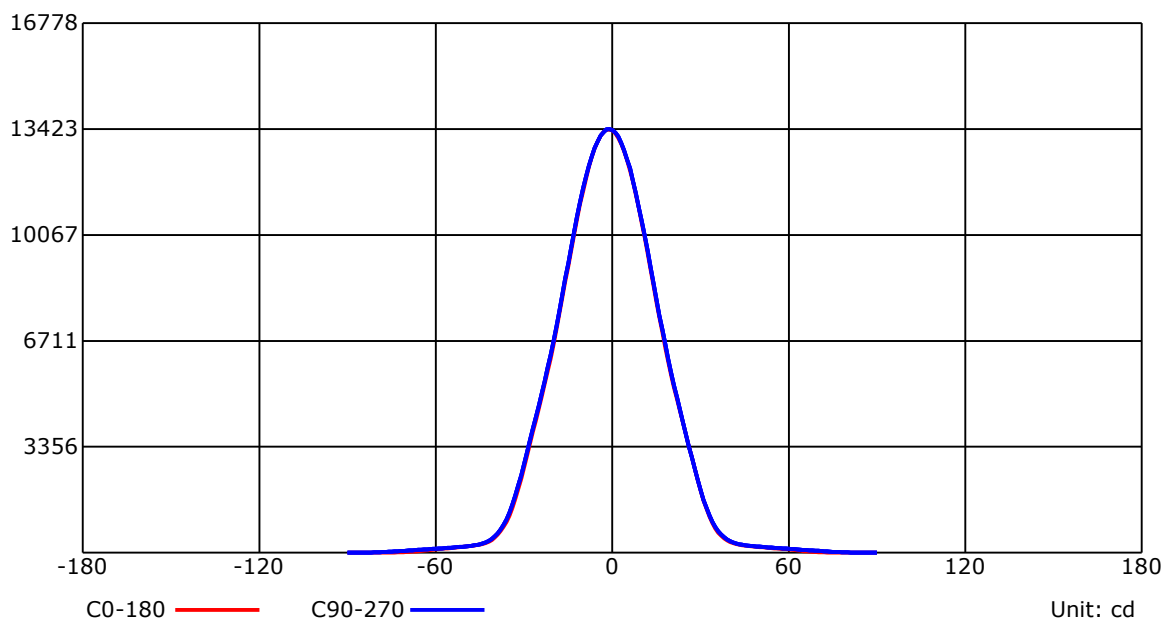
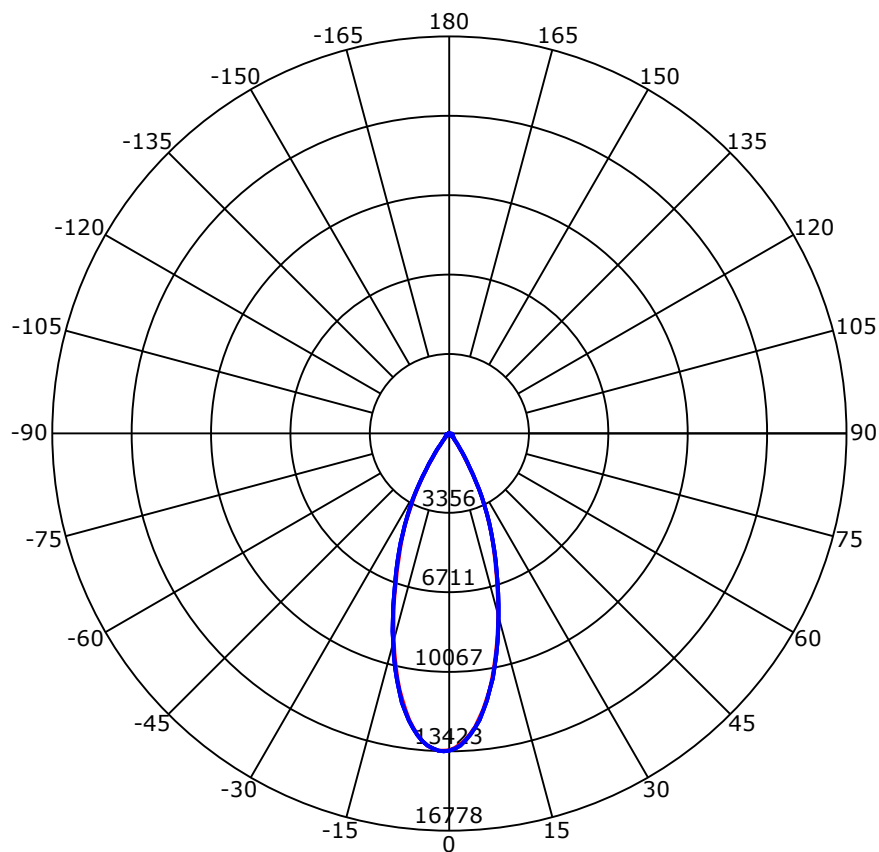
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:00:44

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: 2025/7/16 18:00:44

Luminous Intensity Distribution Curve



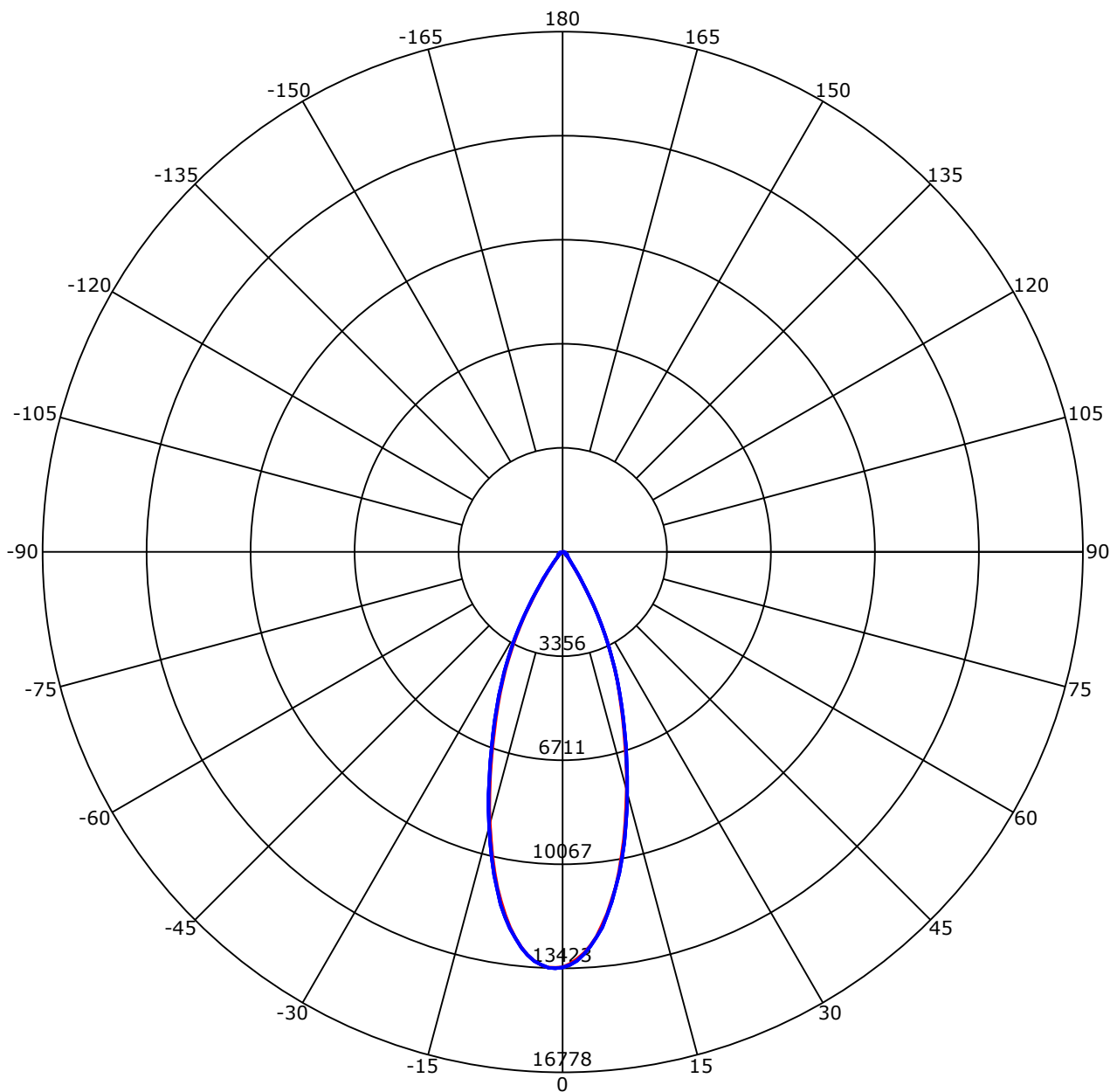
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Temperature: 25
Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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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: 2025/7/16 18:00:44

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

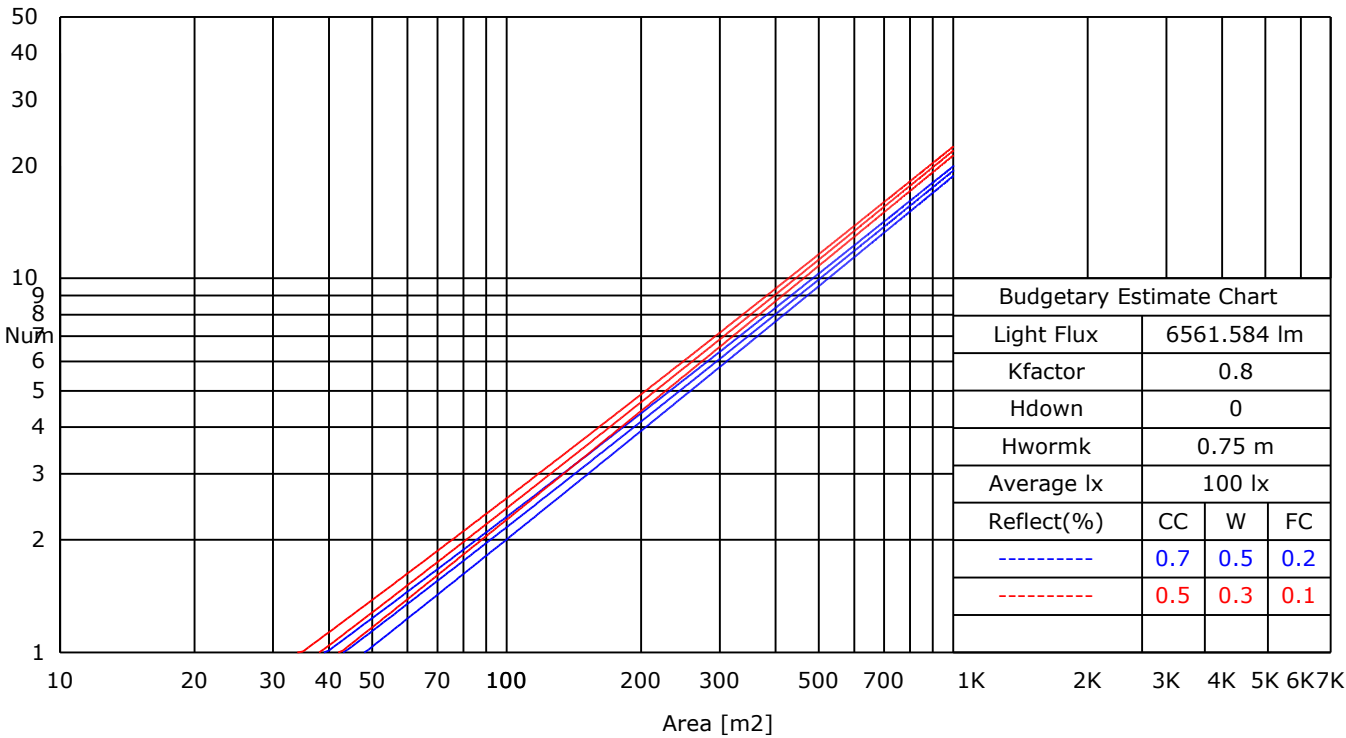
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UTILIZATION FACTORS TABLE

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	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	1.01	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.92	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	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	0.67
5	0.86	0.85	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	0.72	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	0.70	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	0.70	0.72	0.68	0.66	0.70	0.65	0.62	0.59
10	0.75	0.74	0.73	0.74	0.73	0.72	0.72	0.70	0.68	0.70	0.67	0.64	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



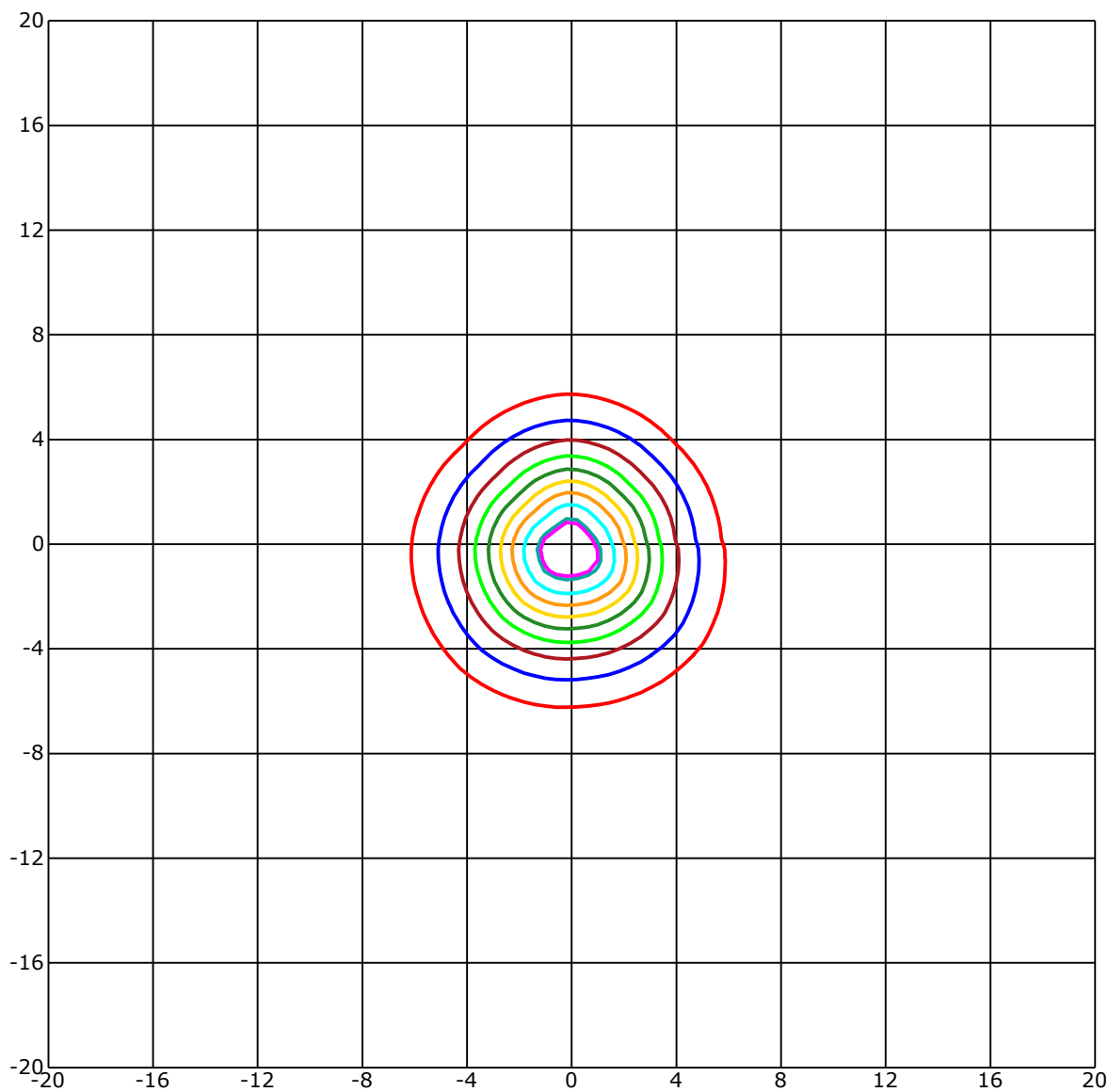
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:00:44

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

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:00:44

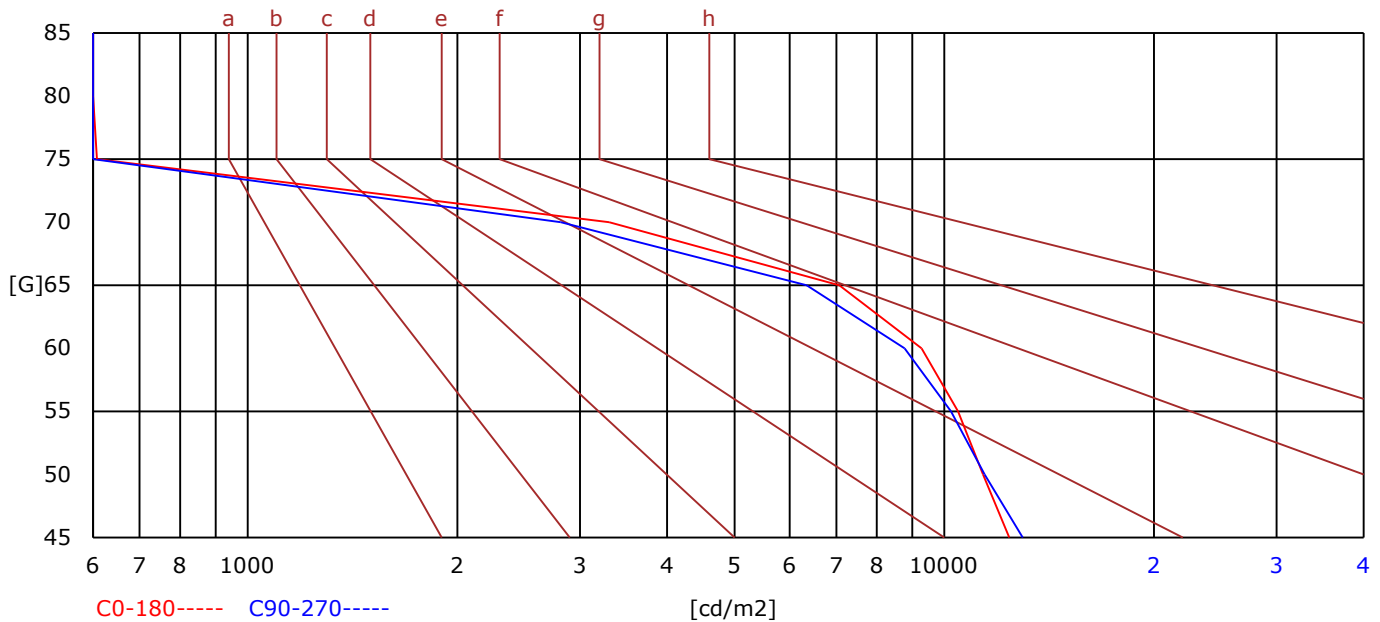
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12398	11363	10462	9275	7068	3302	608	0	0
C90	12955	11422	10230	8773	6346	2815	188	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



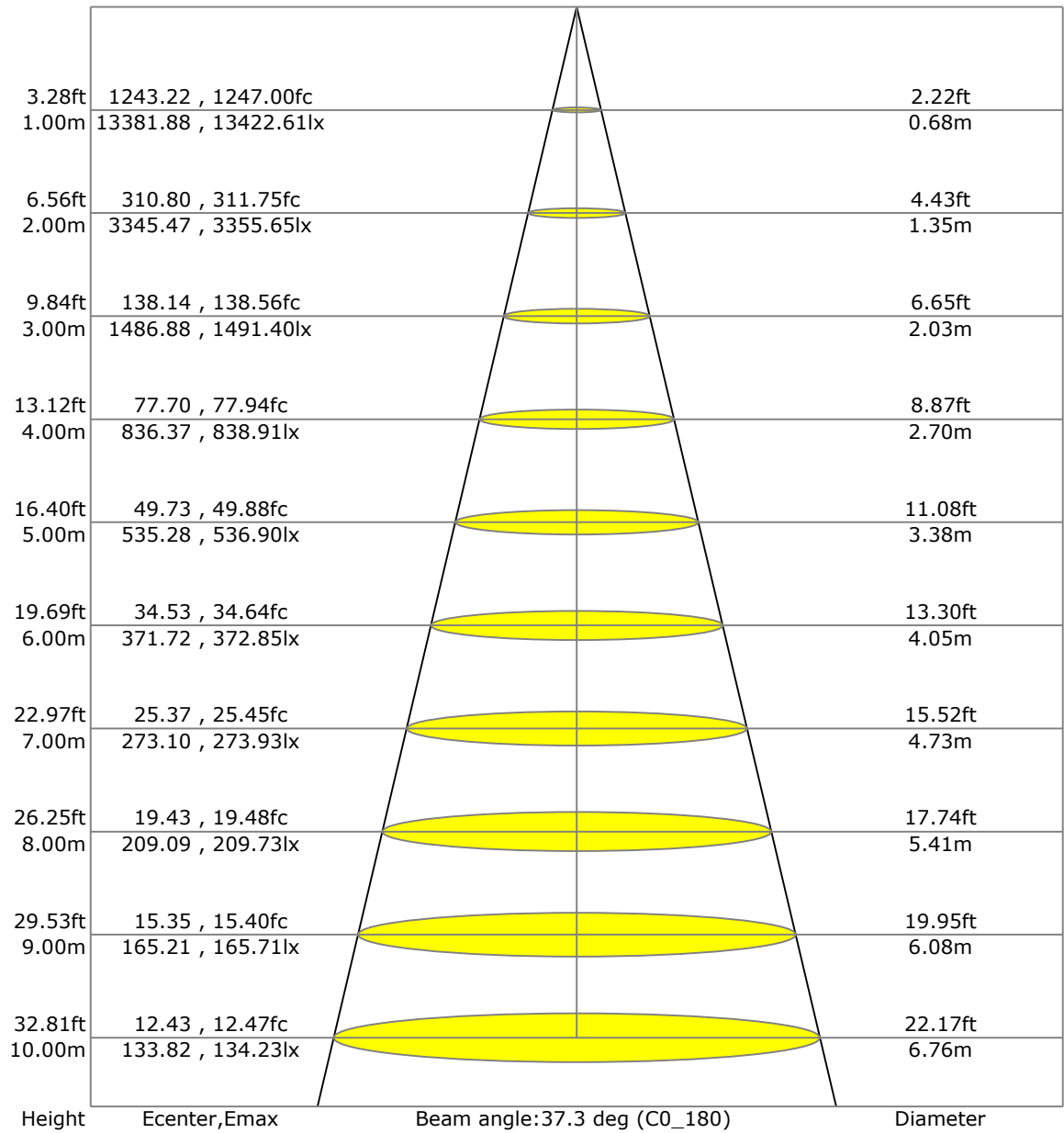
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:00:44

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: 2025/7/16 18:00:44

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:00:44

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: 2025/7/16 18:00:44

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	5.25	5.30	5.45	5.49	5.73	5.40	5.45	5.60	5.64	5.88
	3H	5.28	5.34	5.49	5.53	5.77	5.41	5.46	5.61	5.65	5.90
	4H	5.27	5.32	5.48	5.52	5.77	5.39	5.45	5.60	5.64	5.89
	6H	5.26	5.31	5.47	5.51	5.76	5.38	5.43	5.59	5.63	5.88
	8H	5.25	5.30	5.47	5.50	5.76	5.37	5.42	5.59	5.62	5.88
	12H	5.24	5.29	5.46	5.50	5.75	5.36	5.41	5.58	5.62	5.87
4H	2H	5.59	5.65	5.80	5.84	6.09	6.17	6.22	6.38	6.42	6.66
	3H	5.62	5.68	5.84	5.88	6.14	6.17	6.22	6.39	6.43	6.69
	4H	5.61	5.66	5.84	5.87	6.13	6.15	6.20	6.38	6.42	6.68
	6H	5.59	5.64	5.82	5.86	6.12	6.13	6.18	6.37	6.40	6.67
	8H	5.57	5.62	5.82	5.85	6.12	6.12	6.17	6.36	6.39	6.66
	12H	5.56	5.61	5.81	5.84	6.11	6.10	6.15	6.35	6.38	6.65
8H	4H	5.57	5.62	5.79	5.83	6.08	6.18	6.24	6.40	6.44	6.69
	6H	5.55	5.59	5.80	5.83	6.11	6.13	6.18	6.39	6.42	6.69
	8H	5.53	5.58	5.79	5.82	6.10	6.12	6.17	6.38	6.41	6.69
	12H	5.51	5.56	5.78	5.81	6.09	6.10	6.15	6.37	6.40	6.68
12H	4H	5.56	5.61	5.81	5.84	6.11	6.15	6.20	6.40	6.43	6.70
	6H	5.53	5.58	5.79	5.82	6.10	6.12	6.17	6.38	6.41	6.69

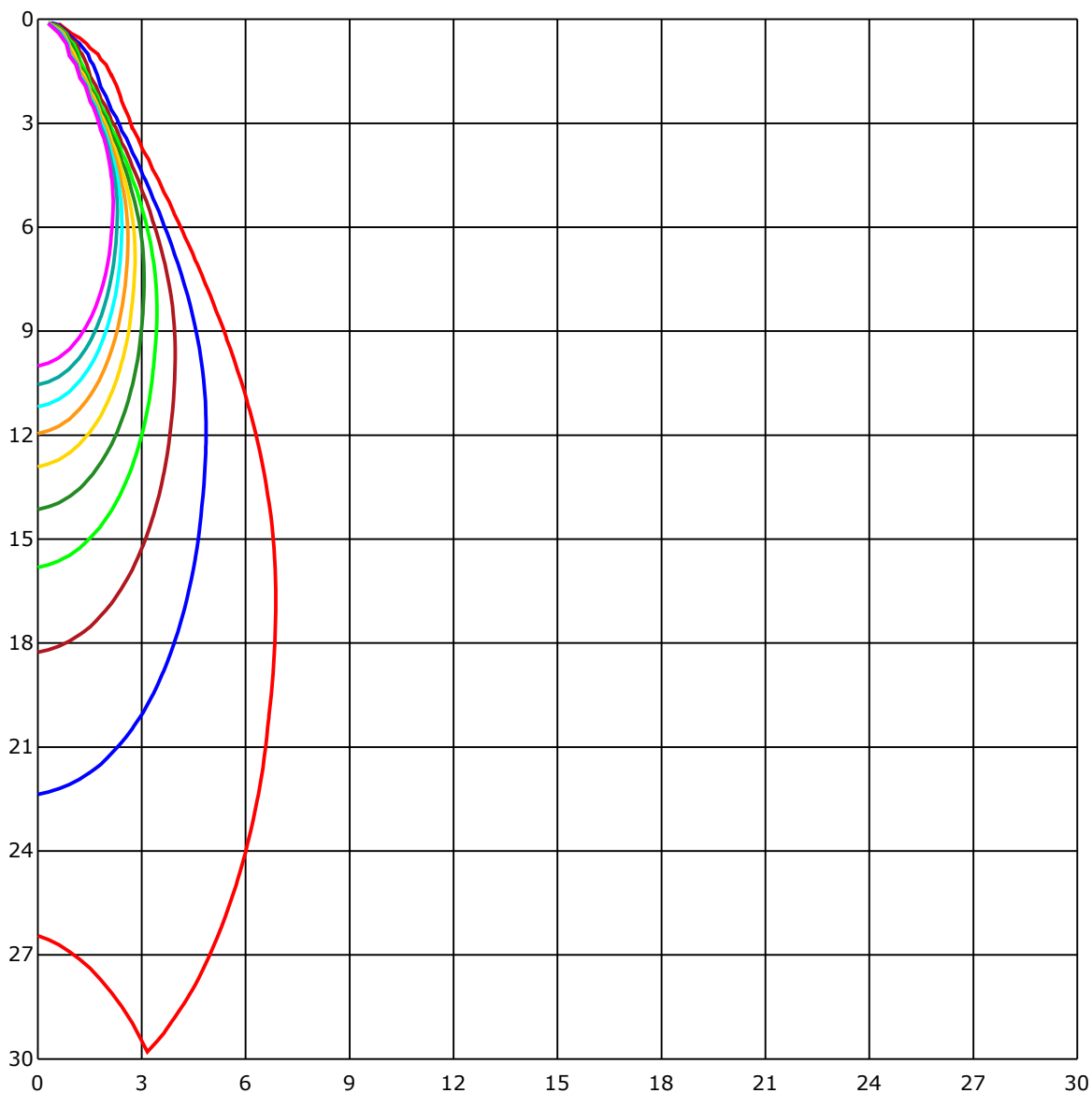
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Test Speed: High
Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

133.747

120.372

106.998

93.623

80.248

66.873

53.499

40.124

26.749

13.375

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:00:44

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: 2025/7/16 18:00:44

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	13381.88	13284.18	13396.65	13320.62	13381.88	13284.18	13396.65	13320.62	13381.88	
G1	13282.43	13140.65	13315.71	13209.94	13407.93	13357.38	13422.61	13381.41	13282.43	
G2	13136.5	12946.72	13189.64	13040.08	13404.2	13408.07	13412.79	13367.48	13136.5	
G3	12955.08	12697.76	12986.56	12851.24	13329.44	13396.08	13323.45	13316.04	12955.08	
G4	12718.76	12421.99	12750.95	12579.01	13212.3	13346.48	13220.42	13214.75	12718.76	
G5	12453.04	12094.25	12471.36	12288.66	13040.55	13222.54	13042.15	13065.23	12453.04	
G6	12092.84	11741.03	12172.17	11921.51	12808.62	13051.36	12821.08	12871.59	12092.84	
G7	11751.7	11318.85	11770.95	11549.17	12528.65	12821.51	12545.88	12601.24	11751.7	
G8	11329.66	10878.51	11386.91	11107.55	12215.88	12584.16	12251.98	12313.53	11329.66	
G9	10928.58	10411.49	10939.72	10679.29	11841.42	12244.81	11915.42	11996.84	10928.58	
G10	10447.55	9947.93	10518.16	10191.51	11442.23	11897.54	11542.33	11597.32	10447.55	
G11	9964.4	9450.42	10027.64	9705.52	11031.05	11492.44	11087.02	11184.44	9964.4	
G12	9464.54	8950.99	9561.76	9201.79	10557.9	11055.64	10654.46	10761.08	9464.54	
G13	8964.77	8443.2	9036.22	8707.4	10076.21	10599.24	10166.73	10309.74	8964.77	
G14	8458.91	7923.98	8541.03	8192.39	9577.62	10151.16	9682.26	9825.45	8458.91	
G15	7950.13	7425.72	8033.01	7701.45	9079.13	9653.04	9173.57	9340.46	7950.13	
G16	7464.8	6944.79	7530.97	7202.39	8583.13	9146.95	8685.08	8841.54	7464.8	
G17	6976.36	6476.5	7062.78	6748.87	8072.65	8629.15	8173.13	8340.35	6976.36	
G18	6480.84	6039.6	6609.17	6276.34	7576.85	8126.32	7664.3	7830.63	6480.84	
G19	6043.85	5608.46	6132.95	5841.8	7086.0	7595.3	7173.98	7346.01	6043.85	
G20	5623.27	5207.66	5701.1	5435.34	6602.42	7095.91	6719.71	6866.58	5623.27	
G21	5226.68	4822.72	5298.8	5052.48	6162.69	6638.48	6286.49	6420.34	5226.68	
G22	4844.86	4469.59	4904.23	4671.97	5735.13	6188.84	5858.74	5995.61	4844.86	
G23	4478.84	4081.4	4515.19	4301.2	5344.58	5761.89	5433.92	5599.96	4478.84	
G24	4118.07	3717.04	4132.42	3917.44	4955.11	5360.81	5058.14	5206.67	4118.07	
G25	3755.13	3349.56	3753.0	3544.35	4579.37	4964.08	4667.77	4831.5	3755.13	
G26	3379.63	2993.37	3383.64	3173.99	4201.61	4607.98	4312.24	4458.97	3379.63	
G27	3023.58	2631.51	3011.73	2811.28	3829.04	4240.08	3925.98	4100.42	3023.58	
G28	2661.53	2282.96	2656.43	2450.04	3451.27	3888.32	3562.61	3724.97	2661.53	
G29	2309.06	1949.09	2311.42	2119.42	3079.17	3518.2	3183.48	3359.85	2309.06	
G30	1967.73	1641.84	1993.31	1795.04	2709.2	3151.81	2820.02	2990.4	1967.73	
G31	1653.07	1367.96	1680.3	1512.66	2345.64	2780.18	2461.37	2628.44	1653.07	
G32	1377.77	1128.01	1411.99	1255.72	2003.32	2426.25	2126.36	2278.05	1377.77	
G33	1133.81	931.81	1175.96	1043.19	1693.57	2087.61	1812.08	1954.8	1133.81	
G34	931.15	771.43	977.73	868.8	1413.17	1767.19	1528.19	1649.67	931.15	
G35	765.39	640.18	814.24	727.82	1172.61	1479.95	1272.62	1379.71	765.39	
G36	635.88	540.64	681.29	611.96	974.0	1231.18	1058.34	1147.97	635.88	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:00:44

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	535.54	455.83	577.03	518.51	810.18	1017.57	879.18	955.97	535.54	
G38	451.58	393.15	494.67	441.2	679.82	848.36	735.99	794.47	451.58	
G39	387.44	345.01	421.85	384.51	566.88	706.58	613.32	671.0	387.44	
G40	341.14	309.33	370.54	339.58	475.41	597.14	521.53	568.25	341.14	
G41	306.45	279.92	327.69	305.98	398.48	506.47	441.9	484.71	306.45	
G42	276.9	261.33	298.0	278.08	346.47	434.78	380.74	417.22	276.9	
G43	256.42	242.59	270.82	257.84	309.8	380.69	330.19	366.72	256.42	
G44	240.66	230.6	252.79	242.69	281.29	340.86	293.66	328.54	240.66	
G45	227.54	220.93	239.15	230.84	260.81	308.9	266.9	299.18	227.54	
G46	215.03	212.57	227.06	219.61	243.44	286.01	247.17	278.32	215.03	
G47	205.07	204.22	216.63	210.55	229.52	267.46	231.36	260.15	205.07	
G48	195.49	198.56	207.62	202.95	216.11	252.6	218.1	245.28	195.49	
G49	187.65	189.5	199.97	194.5	205.59	238.91	206.82	233.96	187.65	
G50	178.12	184.07	191.38	185.01	193.22	228.39	197.99	223.62	178.12	
G51	170.43	176.66	182.79	178.64	183.27	217.72	188.32	215.97	170.43	
G52	163.63	170.57	175.71	169.63	173.21	210.12	181.76	207.1	163.63	
G53	155.56	164.86	169.15	162.4	166.46	200.4	173.54	201.29	155.56	
G54	146.83	158.16	162.4	154.62	155.84	191.95	166.89	192.85	146.83	
G55	139.09	151.22	156.27	147.87	146.78	182.32	157.92	185.86	139.09	
G56	132.2	145.04	148.86	139.7	138.43	174.63	151.83	178.59	132.2	
G57	125.07	137.39	142.68	132.72	130.59	165.61	145.46	172.5	125.07	
G58	116.53	130.97	136.87	125.02	121.2	158.02	139.66	164.81	116.53	
G59	110.35	123.09	131.68	117.66	113.46	150.13	132.43	158.82	110.35	
G60	99.11	116.86	124.18	110.54	104.21	142.39	126.82	150.94	99.11	
G61	90.71	108.18	117.43	102.23	95.2	134.32	120.73	144.09	90.71	
G62	82.69	101.33	111.57	94.25	86.13	125.87	114.41	136.59	82.69	
G63	72.12	92.51	103.83	84.81	76.93	118.32	107.99	129.18	72.12	
G64	59.18	84.58	95.05	76.22	64.38	110.63	102.04	121.58	59.18	
G65	46.63	75.28	88.31	67.59	51.63	101.71	95.76	114.5	46.63	
G66	38.7	67.07	82.83	58.1	44.7	94.77	89.86	105.25	38.7	
G67	33.6	56.92	76.13	49.89	37.8	86.23	80.14	98.12	33.6	
G68	27.94	46.91	69.76	40.26	32.61	77.4	74.76	88.97	27.94	
G69	22.65	36.96	63.95	32.75	27.42	67.82	69.57	80.57	22.65	
G70	17.79	28.46	58.85	24.26	20.91	58.67	64.61	71.98	17.79	
G71	13.5	21.99	51.96	18.22	17.42	48.71	58.0	62.72	13.5	
G72	11.14	17.84	46.06	12.37	12.74	40.02	52.91	53.66	11.14	
G73	5.57	12.84	38.65	8.26	8.5	30.96	47.39	45.03	5.57	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 18:00:44

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

[illegible]

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