

Report No.:

Test Time: 2025/7/16 18:40:16

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-15°
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): 72.16 W
Power Factor: 0.9650
Lamp Luminous Flux: 6664.64

Photometric Results

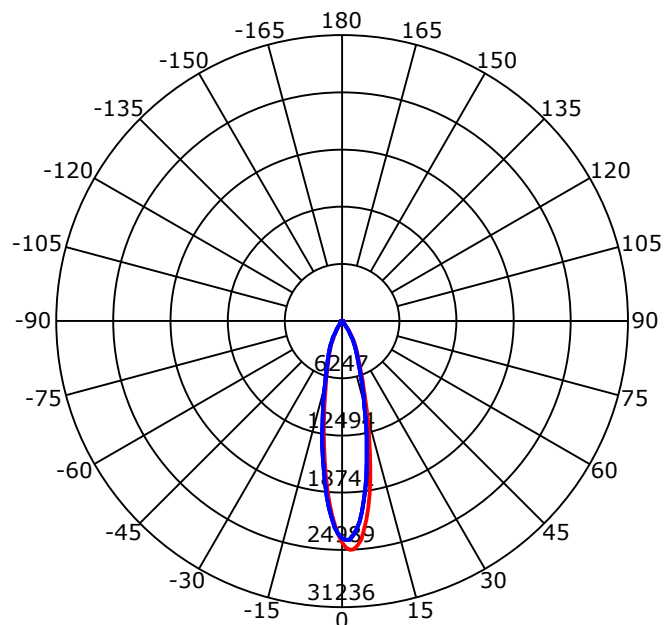
CIE Class: Direct
Luminaire Luminous Flux: 6664.637 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.36 lm/W
Beam Angle(50%) C0-180,C90-270: 22.7,23.2
Field Angle(10%) C0-180,C90-270: 56.0,56.7
S/MH C0-180,C90-270: 0.425,0.389

Max. Intensity: 24988.63 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 24167.74 cd
Effective Luminous Flux: 5497.25 lm
ERP(ϕ use)(120deg): 6574.45 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.7 deg,23.2 deg

C0-180 — C90-270

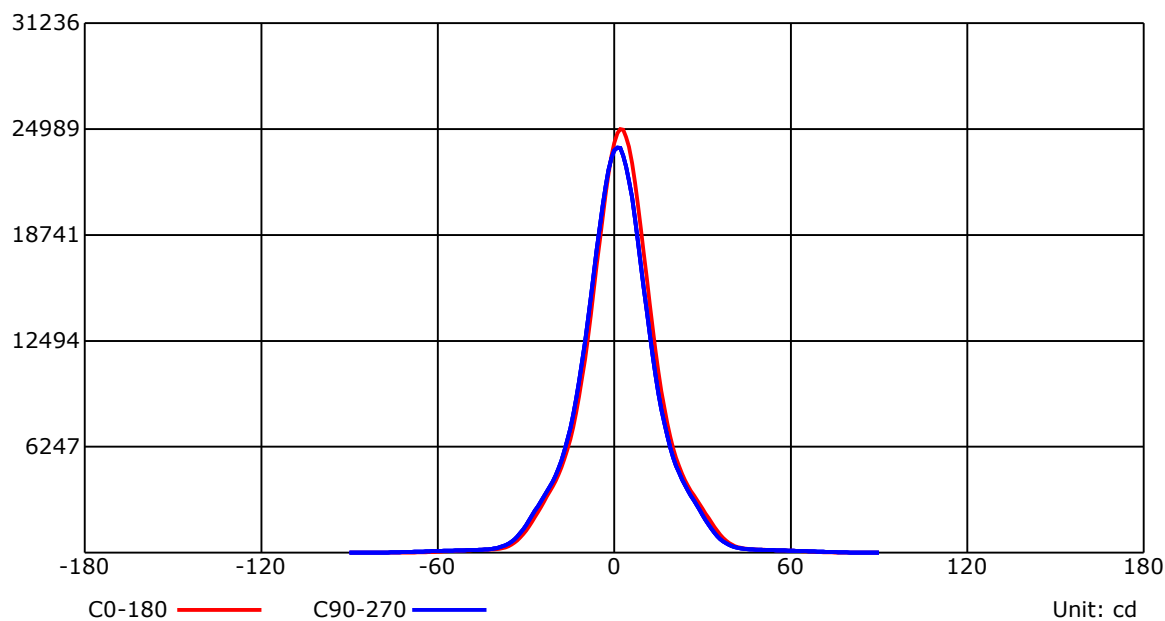
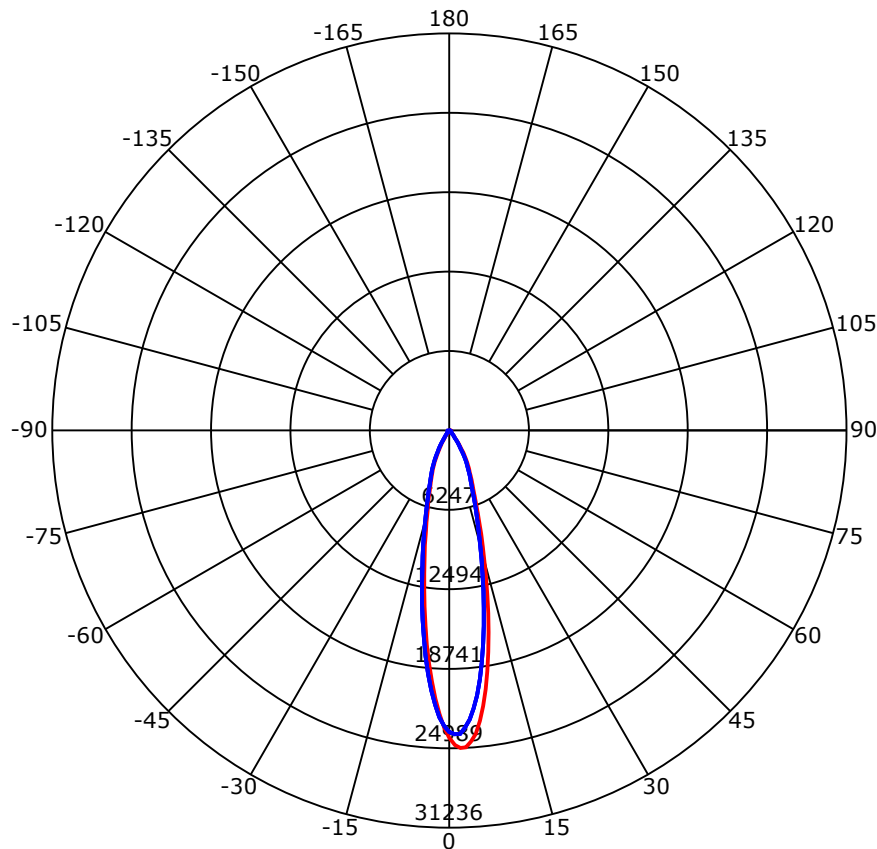
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

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.:

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Luminous Intensity Distribution Curve



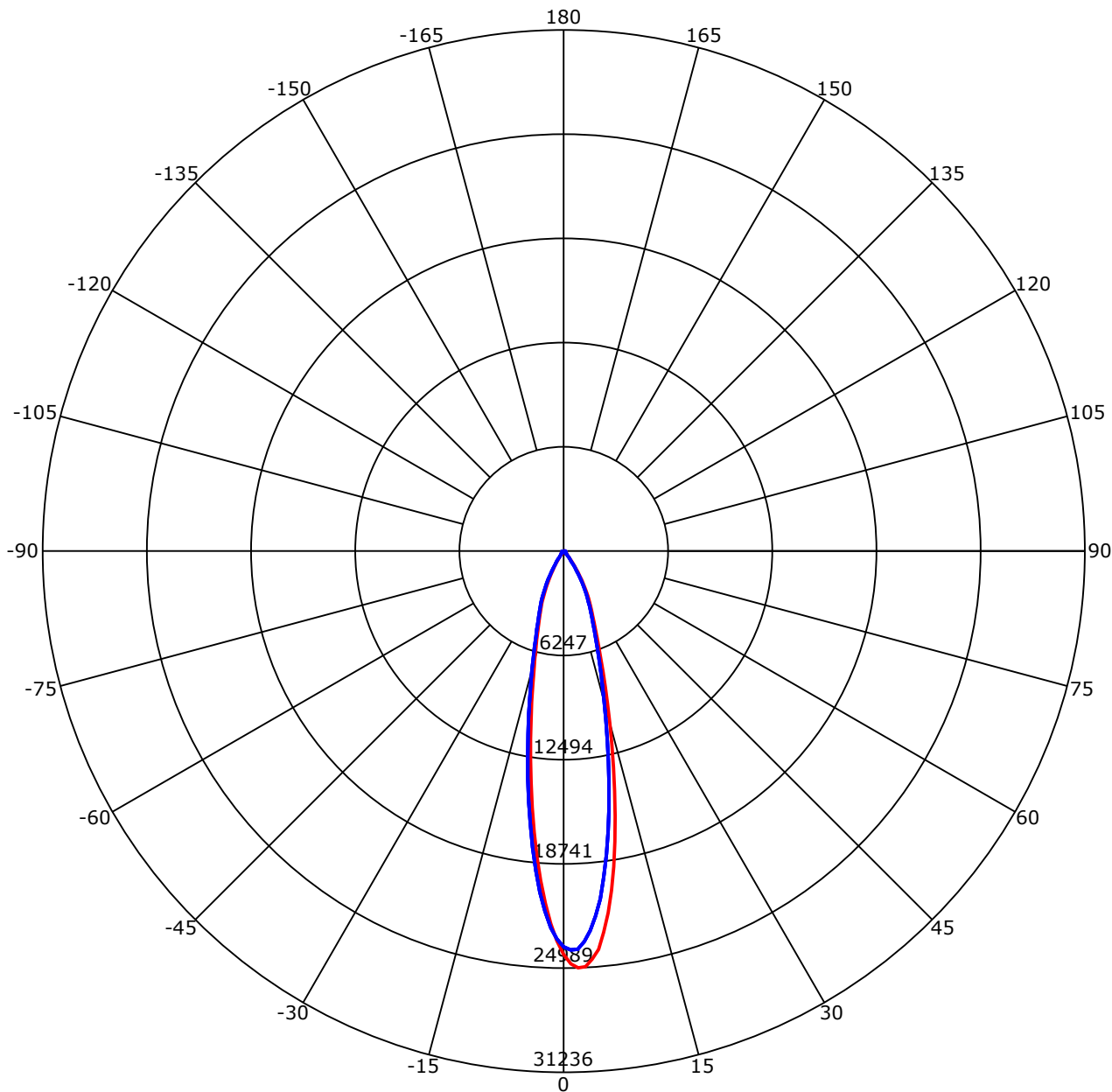
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

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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 18:40:16

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

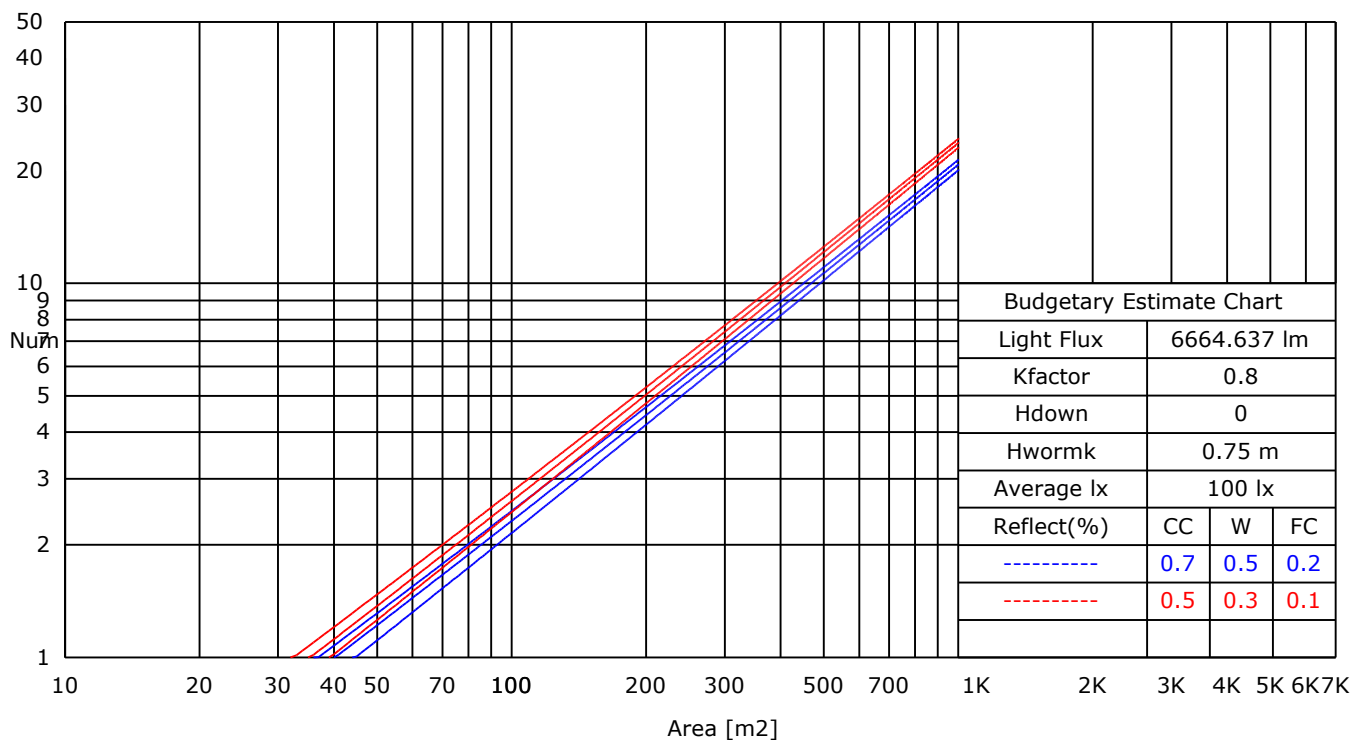
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.87	0.91	0.88	0.85	0.89	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.72	0.67
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.65
3	0.84	0.82	0.80	0.84	0.81	0.79	0.82	0.78	0.75	0.79	0.75	0.72	0.75	0.71	0.67	0.63
4	0.81	0.79	0.78	0.81	0.78	0.76	0.79	0.76	0.73	0.77	0.73	0.69	0.73	0.69	0.65	0.61
5	0.79	0.77	0.76	0.78	0.76	0.74	0.77	0.73	0.71	0.75	0.70	0.67	0.72	0.67	0.63	0.59
6	0.77	0.75	0.74	0.76	0.74	0.72	0.75	0.71	0.69	0.73	0.68	0.65	0.70	0.65	0.62	0.58
7	0.75	0.73	0.72	0.74	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.64	0.68	0.64	0.60	0.56
8	0.73	0.71	0.70	0.72	0.70	0.69	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.71	0.70	0.69	0.71	0.69	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.61	0.57	0.54
10	0.70	0.68	0.67	0.69	0.67	0.66	0.68	0.65	0.63	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



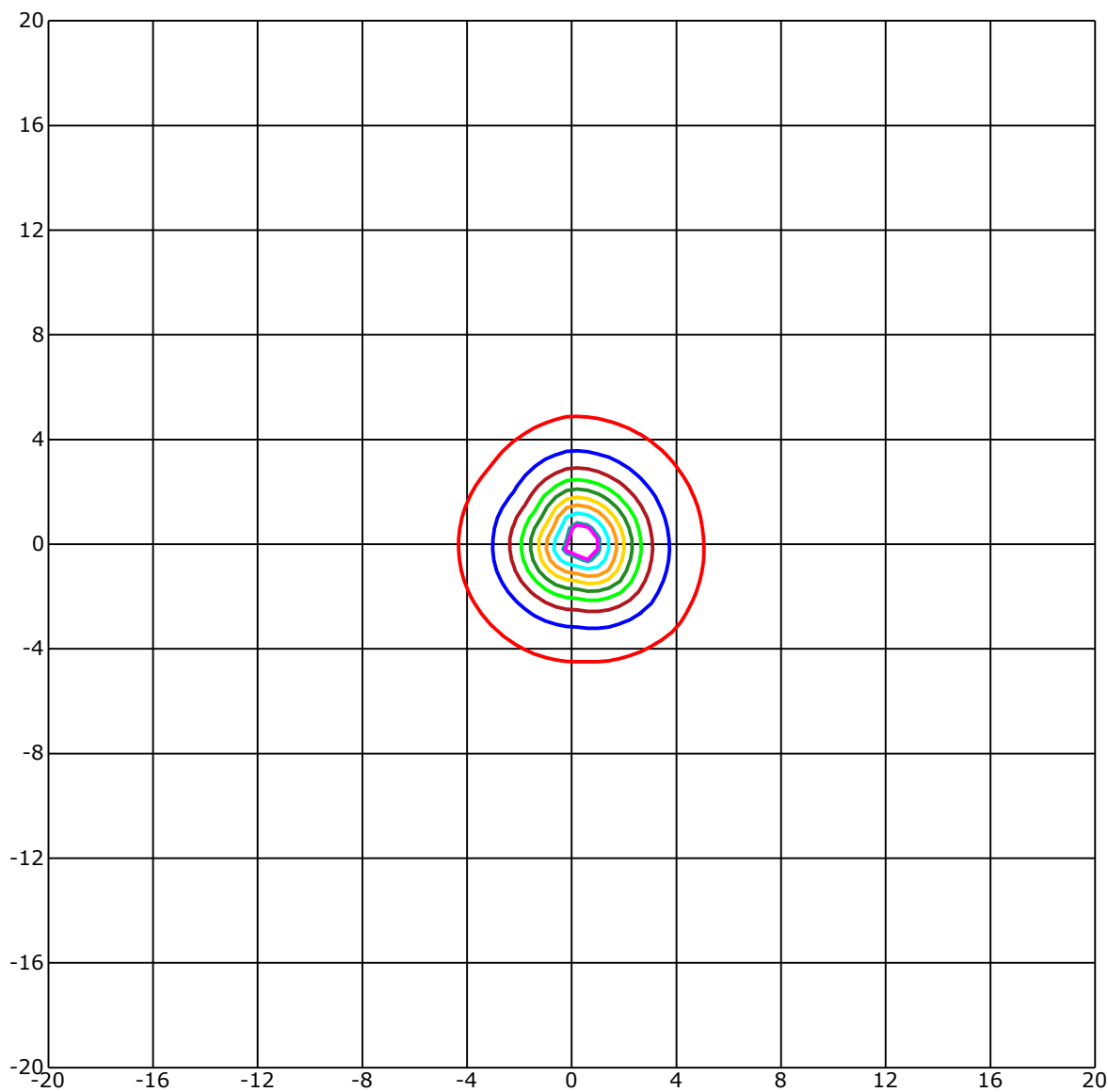
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

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



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

229.476(92%Emax)	124.715(50%Emax)
224.487(90%Emax)	99.772(40%Emax)
199.544(80%Emax)	74.829(30%Emax)
174.601(70%Emax)	49.886(20%Emax)
149.658(60%Emax)	24.943(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

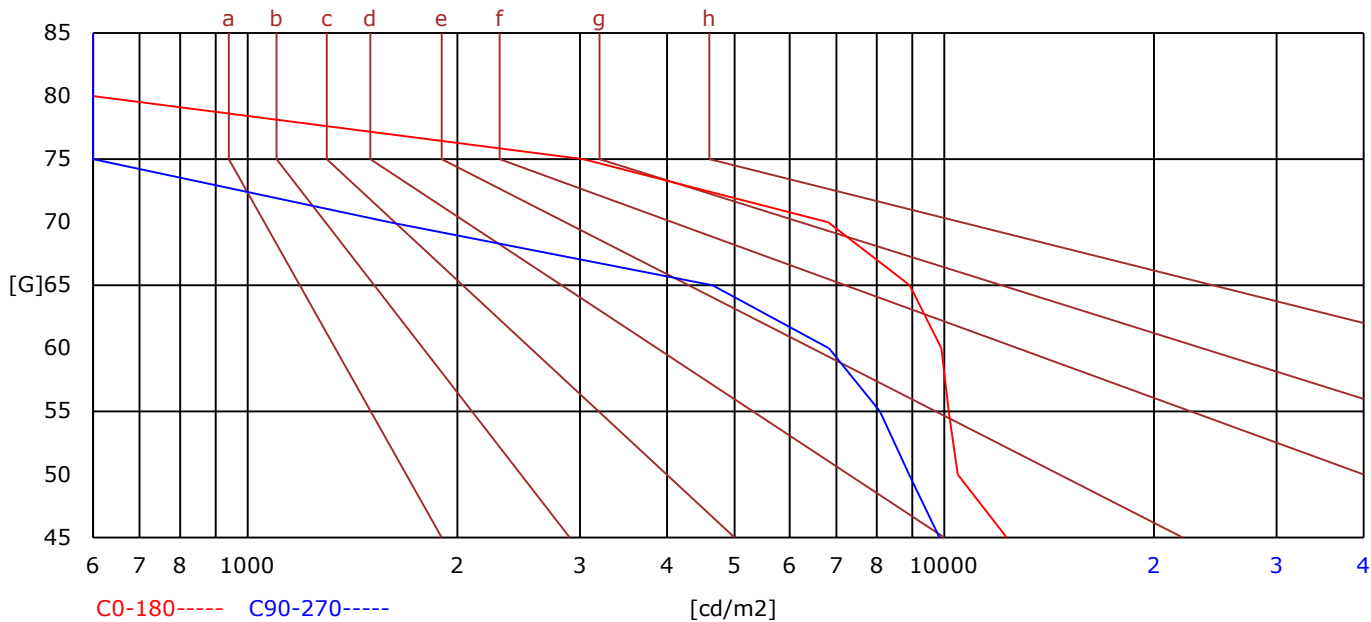
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12292	10451	10155	9908	8921	6812	3032	22	0
C90	9840	8898	8085	6836	4649	1599	0	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



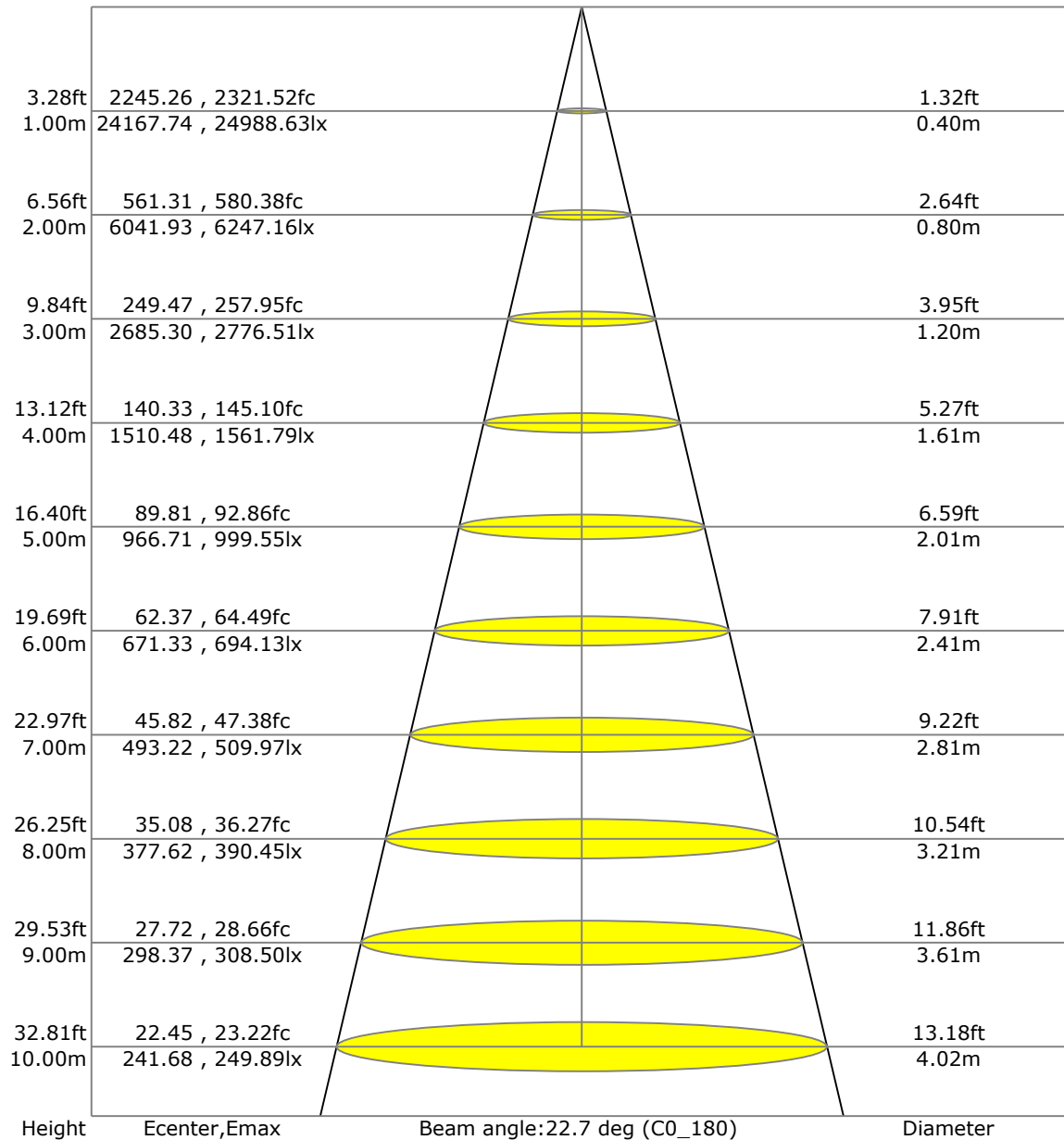
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

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.:

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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: 2025/7/16 18:40:16

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.:

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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	7.21	7.27	7.41	7.46	7.70	7.20	7.26	7.40	7.45	7.69
3H	7.24	7.30	7.45	7.49	7.74	7.23	7.28	7.43	7.48	7.72
4H	7.23	7.29	7.44	7.49	7.74	7.21	7.27	7.42	7.47	7.72
6H	7.22	7.28	7.43	7.48	7.73	7.20	7.26	7.41	7.46	7.71
8H	7.21	7.27	7.43	7.47	7.73	7.19	7.25	7.41	7.45	7.71
12H	7.20	7.26	7.42	7.47	7.72	7.18	7.24	7.40	7.45	7.70
4H 2H	7.70	7.75	7.91	7.95	8.20	7.88	7.93	8.09	8.13	8.38
3H	7.75	7.81	7.97	8.02	8.27	7.93	7.99	8.15	8.19	8.45
4H	7.74	7.80	7.97	8.01	8.27	7.91	7.97	8.14	8.18	8.44
6H	7.72	7.78	7.96	8.00	8.26	7.89	7.95	8.13	8.17	8.43
8H	7.71	7.77	7.95	7.99	8.26	7.88	7.93	8.12	8.16	8.43
12H	7.69	7.75	7.94	7.98	8.25	7.86	7.92	8.11	8.15	8.42
8H 4H	7.67	7.73	7.89	7.94	8.19	7.90	7.96	8.12	8.16	8.42
6H	7.69	7.74	7.94	7.98	8.25	7.91	7.96	8.16	8.20	8.47
8H	7.67	7.72	7.93	7.97	8.25	7.89	7.94	8.15	8.19	8.47
12H	7.65	7.70	7.92	7.96	8.24	7.87	7.92	8.14	8.18	8.46
12H 4H	7.70	7.76	7.95	7.99	8.26	7.92	7.98	8.17	8.21	8.48
6H	7.67	7.72	7.93	7.97	8.25	7.89	7.95	8.15	8.19	8.47

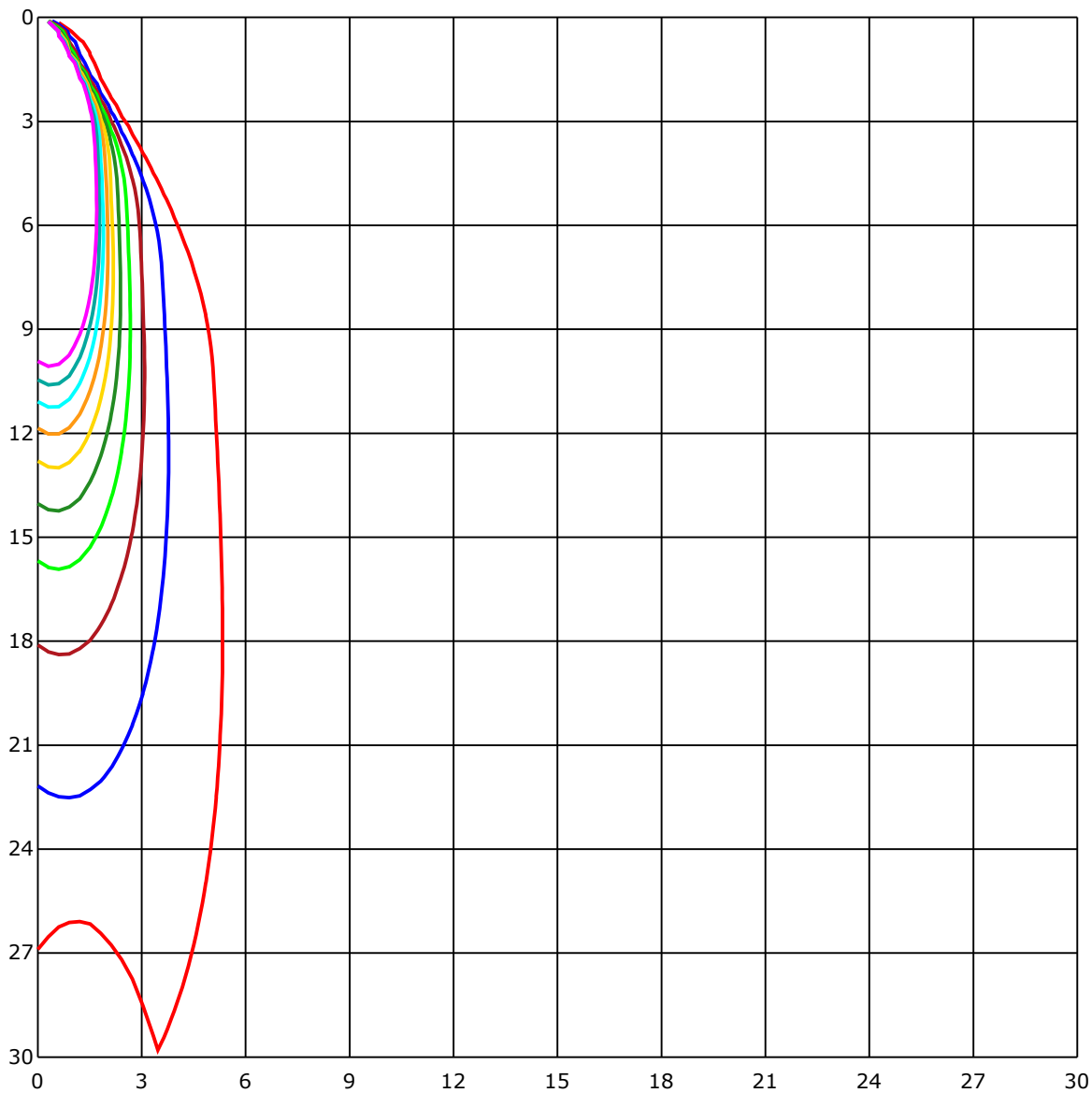
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C Interval: 45.0 Deg
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

245.705	122.852
221.134	98.282
196.564	73.711
171.993	49.141
147.423	24.57

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	24167.74	24229.9	23719.89	23394.37	24167.74	24229.9	23719.89	23394.37	24167.74	
G1	24740.62	24567.73	23901.12	22605.29	23362.7	23528.93	23247.54	23941.29	24740.62	
G2	24988.63	24619.32	23873.61	21619.86	22331.54	22650.83	22576.73	24199.41	24988.63	
G3	24943.46	24382.01	23427.64	20481.33	21142.65	21559.07	21590.65	24132.44	24943.46	
G4	24517.33	23896.78	22789.35	19197.81	19781.35	20310.67	20482.98	23811.21	24517.33	
G5	23950.68	23081.93	21946.94	17838.02	18406.46	18896.6	19229.9	23241.59	23950.68	
G6	22961.81	22092.44	20949.05	16406.59	16938.54	17428.78	17855.01	22424.43	22961.81	
G7	21842.82	20857.21	19687.48	15008.05	15484.64	15933.3	16451.28	21392.18	21842.82	
G8	20537.78	19567.36	18354.12	13609.23	14012.62	14491.0	15081.58	20194.85	20537.78	
G9	19154.01	18142.49	16985.31	12322.69	12677.51	13115.12	13747.8	18945.5	19154.01	
G10	17692.37	16682.45	15619.01	11094.29	11418.3	11777.61	12454.27	17584.67	17692.37	
G11	16179.76	15241.39	14221.27	9968.17	10258.86	10547.0	11198.64	16156.87	16179.76	
G12	14685.36	13840.4	12911.8	8946.13	9205.05	9446.74	10090.08	14768.85	14685.36	
G13	13276.11	12459.79	11630.5	8035.04	8251.95	8449.28	9079.03	13432.94	13276.11	
G14	11894.37	11210.77	10458.27	7212.16	7407.88	7586.34	8151.71	12151.31	11894.37	
G15	10678.2	10044.63	9395.77	6511.33	6685.11	6808.86	7333.6	10992.39	10678.2	
G16	9536.04	9007.76	8457.83	5894.85	6044.51	6139.99	6620.64	9861.7	9536.04	
G17	8530.37	8061.47	7616.4	5354.44	5514.72	5545.31	5996.13	8858.76	8530.37	
G18	7621.59	7243.54	6879.0	4890.87	5026.09	5048.65	5427.88	7955.79	7621.59	
G19	6838.6	6517.04	6203.7	4499.23	4615.43	4612.13	4968.09	7155.71	6838.6	
G20	6162.92	5905.7	5614.97	4131.15	4232.71	4254.47	4557.14	6447.29	6162.92	
G21	5597.51	5369.26	5123.79	3810.3	3906.06	3915.69	4197.6	5859.35	5597.51	
G22	5089.95	4905.41	4700.1	3513.01	3593.48	3625.81	3878.12	5327.73	5089.95	
G23	4659.89	4507.59	4316.49	3221.76	3307.51	3342.15	3585.5	4878.65	4659.89	
G24	4274.62	4162.01	3992.1	2923.99	2998.09	3081.06	3305.77	4479.13	4274.62	
G25	3945.05	3836.4	3662.57	2629.39	2694.75	2806.52	3023.25	4134.26	3945.05	
G26	3649.6	3539.11	3369.62	2331.48	2395.72	2543.49	2748.51	3816.96	3649.6	
G27	3388.74	3258.38	3084.55	2042.92	2096.49	2266.82	2474.44	3518.34	3388.74	
G28	3120.56	2979.35	2800.29	1764.6	1815.76	1988.83	2191.49	3231.9	3120.56	
G29	2861.31	2690.74	2509.18	1498.93	1552.59	1713.39	1908.93	2953.96	2861.31	
G30	2585.07	2411.29	2222.03	1255.2	1305.99	1457.44	1631.36	2671.2	2585.07	
G31	2314.54	2123.72	1930.4	1038.99	1092.42	1215.18	1381.5	2385.47	2314.54	
G32	2045.04	1850.07	1655.15	854.41	898.3	1006.76	1154.34	2094.27	2045.04	
G33	1785.13	1581.29	1403.49	709.56	731.79	828.97	952.91	1821.85	1785.13	
G34	1518.51	1336.76	1172.75	585.9	589.82	684.31	785.73	1555.47	1518.51	
G35	1279.84	1114.27	969.9	487.69	475.18	564.33	646.6	1315.09	1279.84	
G36	1059.43	920.58	798.43	407.55	381.12	466.82	534.13	1097.75	1059.43	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	870.12	752.79	656.79	349.54	316.08	395.42	443.65	913.68	870.12	
G38	710.46	615.45	549.94	299.18	269.4	341.33	373.94	759.07	710.46	
G39	575.99	507.65	454.46	264.77	238.11	300.69	318.3	631.12	575.99	
G40	474.75	420.19	384.42	237.78	216.87	268.74	277.33	529.64	474.75	
G41	391.55	354.83	330.8	217.39	202.43	243.77	242.21	442.23	391.55	
G42	330.19	305.22	290.64	201.81	192.52	226.83	217.25	375.78	330.19	
G43	286.01	267.98	256.09	189.83	182.79	211.35	199.5	325.8	286.01	
G44	252.98	239.15	231.78	180.67	173.97	201.72	187.23	288.47	252.98	
G45	230.27	219.04	211.49	175.34	166.65	191.01	178.31	261.47	230.27	
G46	212.1	204.36	200.07	166.27	160.0	183.64	171.14	238.16	212.1	
G47	199.83	192.0	190.16	160.47	153.91	176.8	165.28	220.55	199.83	
G48	188.36	183.08	181.33	155.94	147.11	169.91	159.62	208.14	188.36	
G49	179.96	175.19	175.01	149.94	141.02	163.58	155.28	200.87	179.96	
G50	173.07	169.3	168.59	144.14	134.75	159.43	149.57	191.71	173.07	
G51	166.18	164.01	164.43	139.56	128.75	152.16	144.04	185.3	166.18	
G52	160.56	160.61	158.58	133.33	121.82	146.36	140.93	178.5	160.56	
G53	157.21	155.75	152.3	128.75	115.21	141.45	135.46	173.21	157.21	
G54	150.42	151.08	149.47	122.33	107.89	135.22	132.06	167.6	150.42	
G55	146.5	146.78	143.81	116.86	100.44	128.42	126.11	162.36	146.5	
G56	139.84	143.86	138.38	110.91	92.36	121.53	122.33	158.35	139.84	
G57	134.37	138.19	133.57	106.67	84.44	115.68	116.15	154.0	134.37	
G58	129.46	134.04	128.66	99.26	76.41	108.55	112.33	149.76	129.46	
G59	123.7	129.89	123.51	92.74	68.15	101.38	106.43	144.66	123.7	
G60	116.86	124.84	118.79	86.13	57.67	95.01	100.95	139.18	116.86	
G61	110.72	119.31	113.08	80.05	47.95	86.94	95.57	135.27	110.72	
G62	103.83	114.64	108.18	71.93	39.6	80.61	90.71	129.84	103.83	
G63	96.47	107.61	102.09	65.7	33.56	71.55	83.92	123.84	96.47	
G64	88.07	101.9	97.08	57.63	28.08	64.09	77.54	117.61	88.07	
G65	80.71	95.01	91.0	49.51	22.98	55.65	71.13	112.23	80.71	
G66	71.69	88.78	85.24	41.3	18.45	47.76	66.83	104.78	71.69	
G67	62.58	81.93	77.92	34.12	14.96	38.84	60.46	99.11	62.58	
G68	51.35	73.72	72.12	26.81	10.19	31.48	55.74	91.0	51.35	
G69	42.52	65.56	66.74	19.92	7.03	24.21	50.45	83.21	42.52	
G70	35.11	58.71	61.31	13.78	3.59	19.87	46.39	76.08	35.11	
G71	29.88	49.98	55.98	10.48	2.03	14.44	41.25	67.26	29.88	
G72	24.5	41.91	50.41	5.47	0.0	10.81	36.01	58.71	24.5	
G73	20.58	32.75	46.16	2.5	0.0	6.99	30.39	50.83	20.58	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:40:16

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

Remarks: