

Report No.:

Test Time: 2025/8/1 18:30:14

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-EB-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

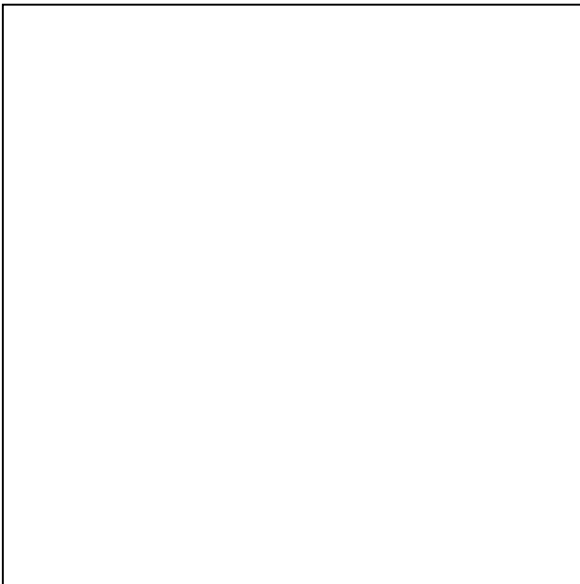
Voltage(V): 219.80 V
Current(A): 0.1020 A
Power(W): 20.58 W
Power Factor: 0.9160
Lamp Luminous Flux: 1489.58

Photometric Results

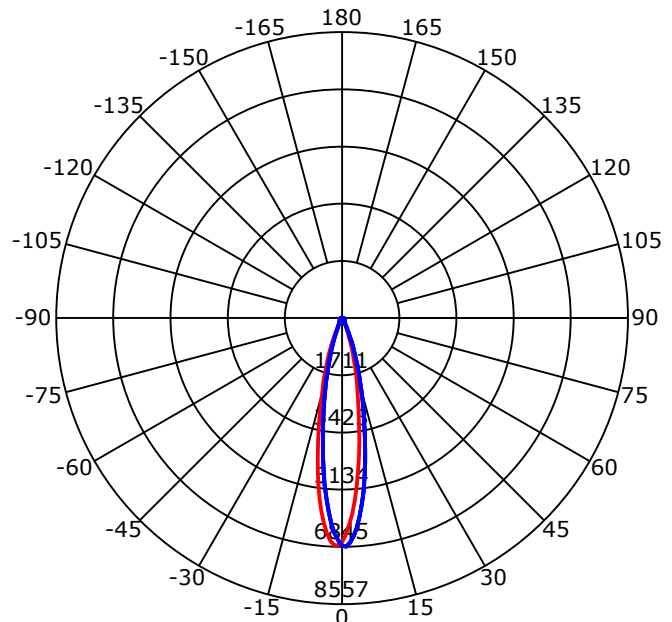
CIE Class: Direct
Luminaire Luminous Flux: 1489.578 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 72.39 lm/W
Beam Angle(50%) C0-180,C90-270: 20.6,21.1
Field Angle(10%) C0-180,C90-270: 42.1,42.6
S/MH C0-180,C90-270: 0.353,0.389

Max. Intensity: 6845.39 cd
Max.Intensity Angle: C=225 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6701.68 cd
Effective Luminous Flux: 1043.97 lm
ERP(ϕ use)(120deg): 1401.09 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.6 deg,21.1 deg

C0-180 — C90-270 —

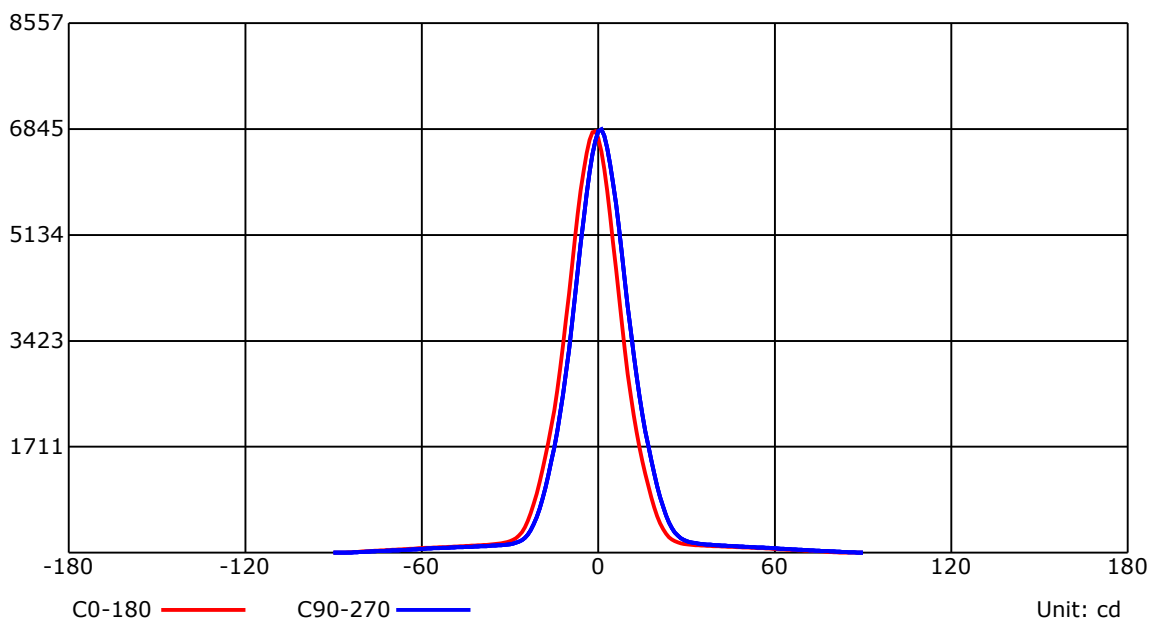
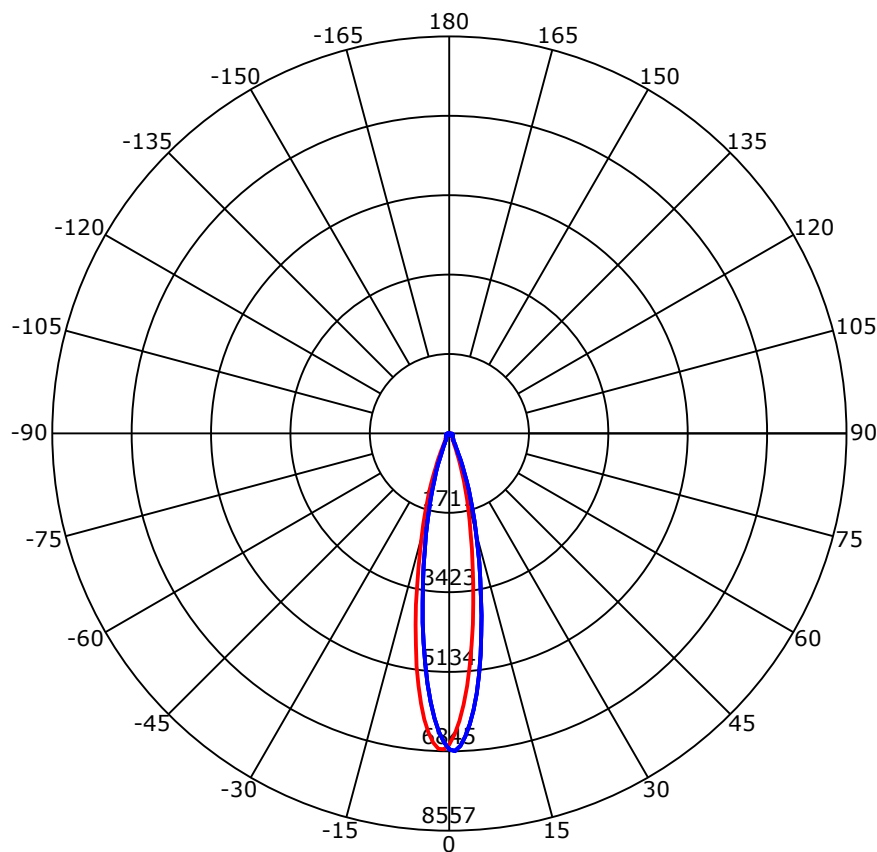
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

Luminous Intensity Distribution Curve



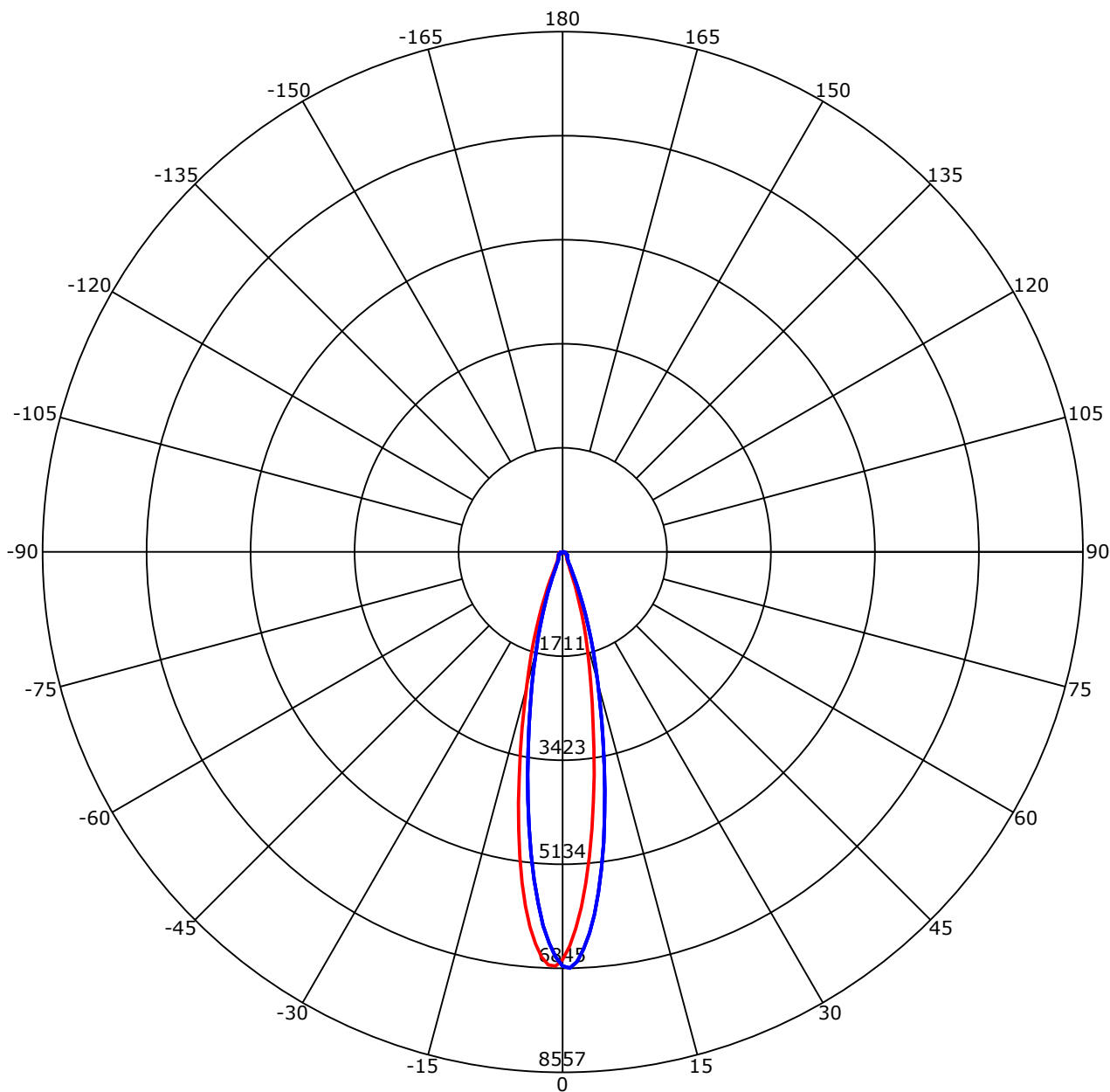
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

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

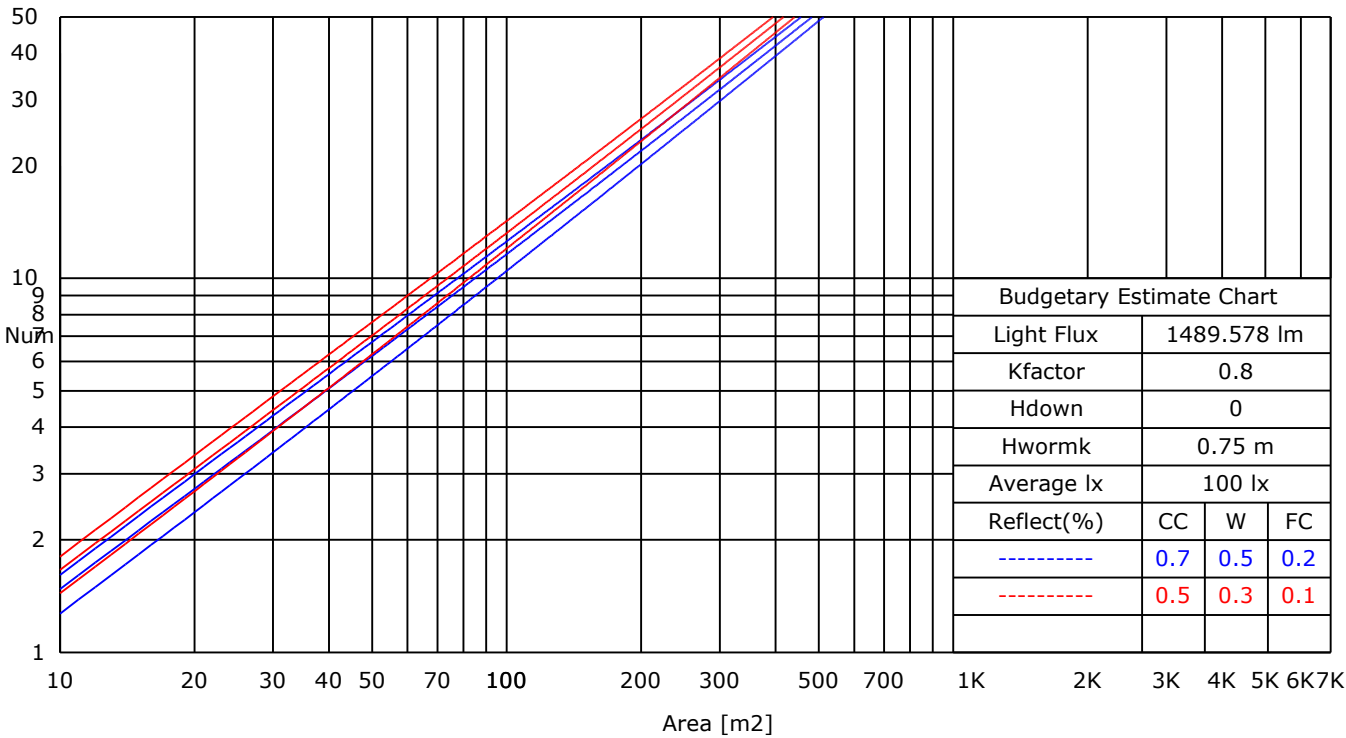
Report No.:

Test Time: 2025/8/1 18:30:14

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	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.79	0.75	0.80	0.75	0.71	0.75	0.70	0.66	0.61
2	0.80	0.77	0.75	0.80	0.76	0.73	0.79	0.74	0.71	0.76	0.71	0.67	0.72	0.67	0.63	0.58
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.72	0.70	0.68	0.72	0.69	0.67	0.71	0.67	0.64	0.70	0.65	0.61	0.67	0.62	0.57	0.53
5	0.69	0.67	0.65	0.69	0.66	0.64	0.69	0.64	0.61	0.67	0.62	0.58	0.65	0.59	0.55	0.51
6	0.67	0.65	0.63	0.67	0.64	0.62	0.66	0.62	0.59	0.65	0.60	0.56	0.63	0.57	0.53	0.50
7	0.65	0.63	0.62	0.65	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.55	0.61	0.56	0.52	0.48
8	0.63	0.61	0.60	0.63	0.60	0.59	0.62	0.58	0.56	0.61	0.56	0.53	0.60	0.54	0.50	0.47
9	0.61	0.60	0.59	0.61	0.59	0.57	0.61	0.57	0.55	0.60	0.55	0.52	0.58	0.53	0.49	0.46
10	0.60	0.58	0.57	0.60	0.58	0.56	0.59	0.56	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.45

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



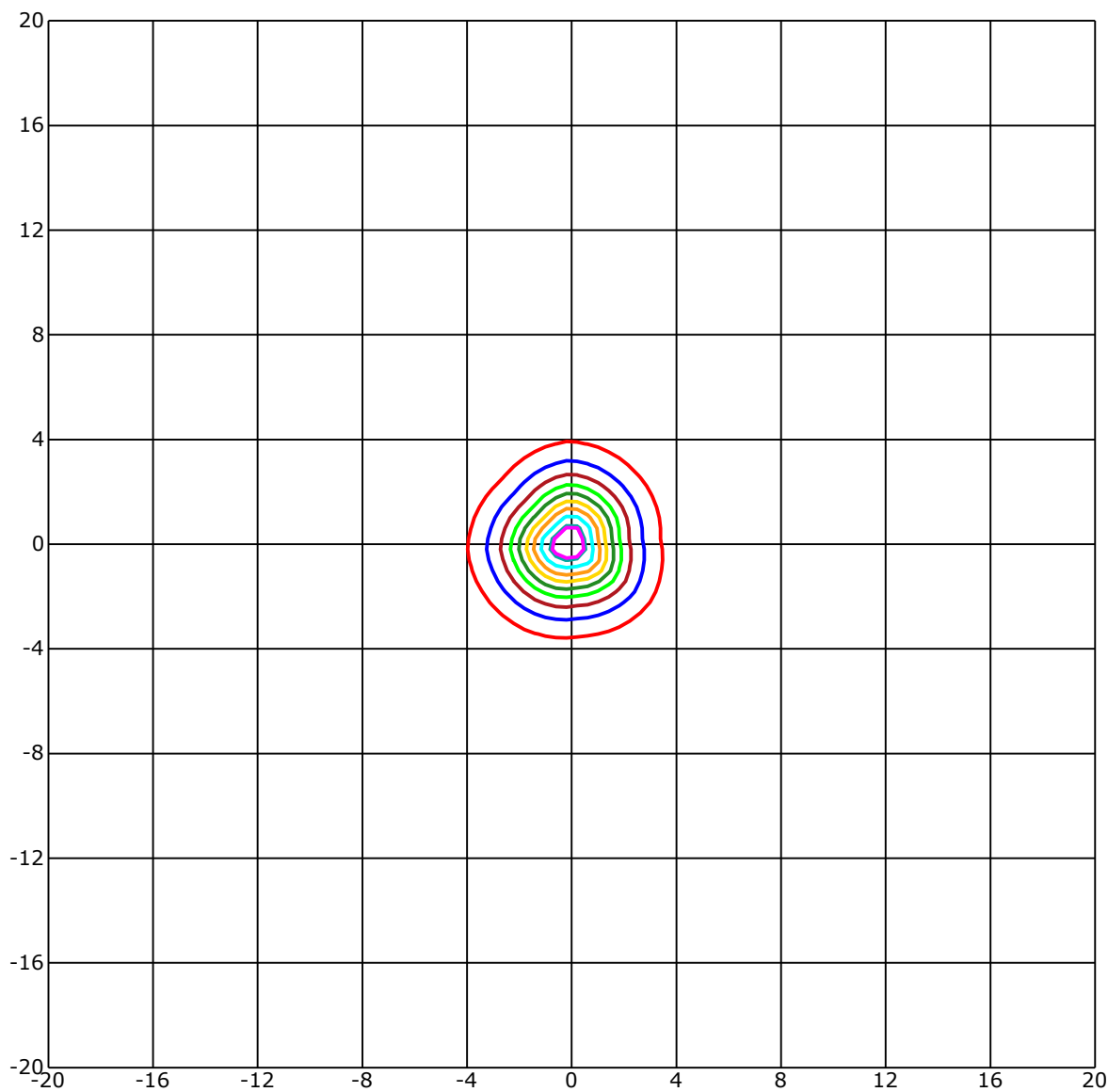
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

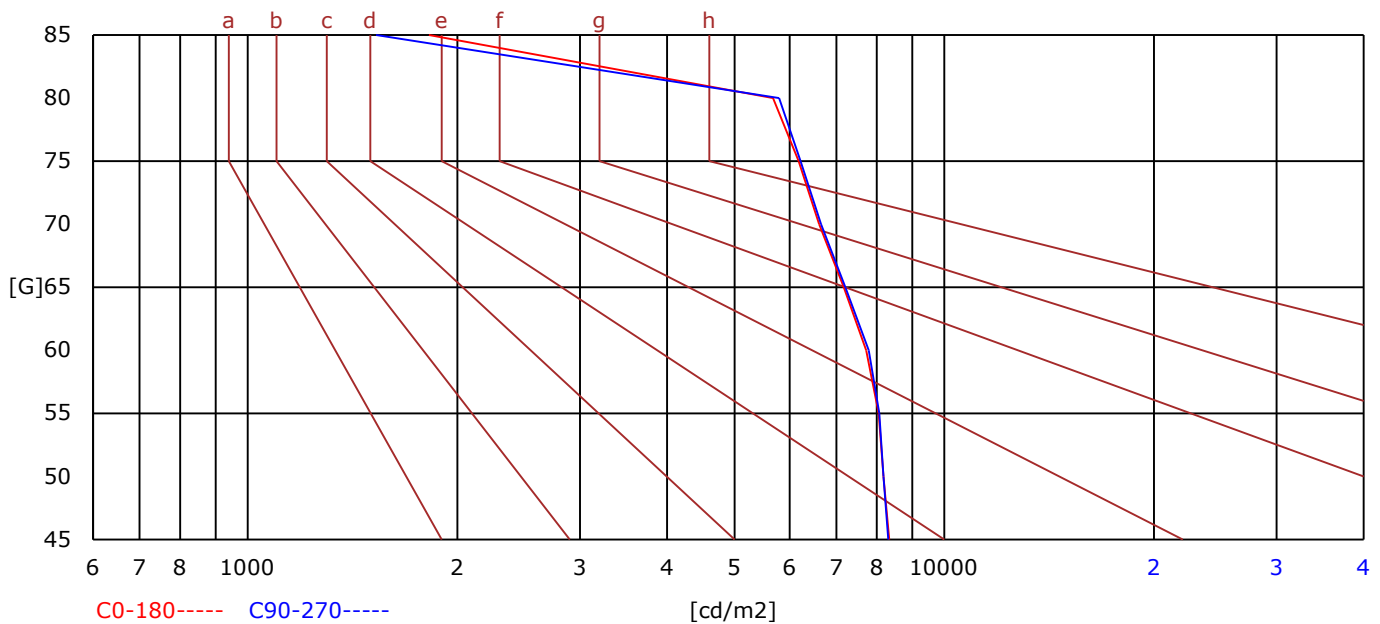
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/8/1 18:30:14

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8334	8176	8051	7722	7177	6614	6177	5681	1821
C90	8310	8180	8065	7790	7210	6655	6221	5795	1529
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



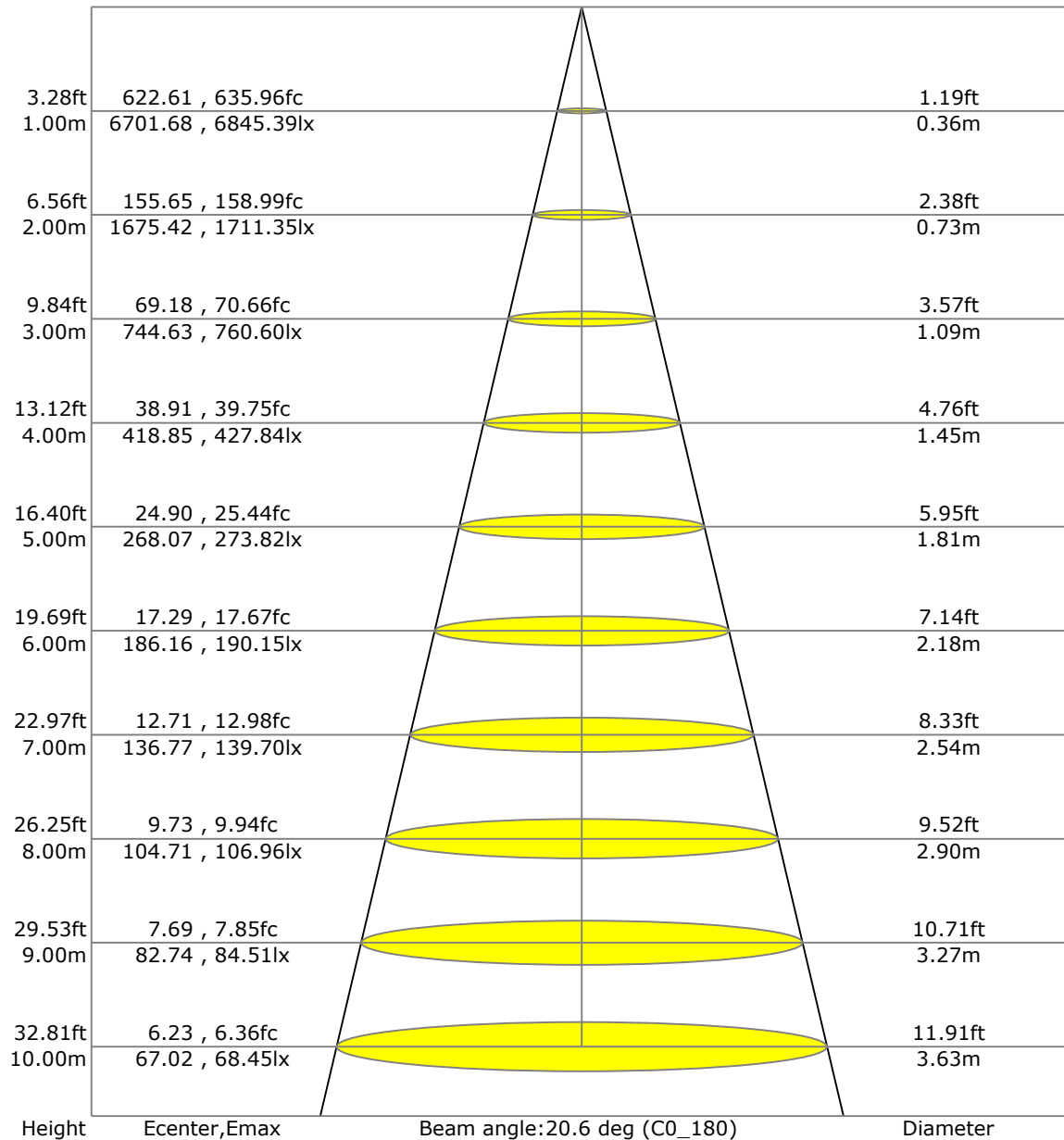
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

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	10.54	10.61	10.74	10.79	11.04	10.81	10.87	11.01	11.06	11.30
3H	10.71	10.78	10.92	10.98	11.22	10.94	11.01	11.15	11.20	11.45
4H	10.74	10.81	10.95	11.01	11.26	10.95	11.02	11.16	11.22	11.47
6H	10.73	10.80	10.95	11.01	11.26	10.94	11.01	11.16	11.21	11.46
8H	10.72	10.79	10.94	11.00	11.25	10.93	11.00	11.15	11.20	11.46
12H	10.71	10.78	10.94	10.99	11.25	10.92	10.99	11.14	11.20	11.45
4H 2H	12.45	12.52	12.66	12.71	12.96	13.03	13.10	13.25	13.30	13.55
3H	12.79	12.86	13.01	13.06	13.32	13.32	13.39	13.55	13.60	13.86
4H	12.87	12.94	13.10	13.15	13.41	13.38	13.45	13.62	13.67	13.93
6H	12.90	12.97	13.14	13.19	13.45	13.39	13.46	13.63	13.68	13.94
8H	12.89	12.96	13.14	13.19	13.46	13.38	13.45	13.62	13.67	13.94
12H	12.88	12.95	13.13	13.18	13.45	13.36	13.43	13.61	13.66	13.93
8H 4H	12.69	12.76	12.91	12.97	13.22	13.60	13.67	13.82	13.87	14.13
6H	13.31	13.38	13.57	13.62	13.89	14.18	14.25	14.44	14.49	14.76
8H	13.32	13.38	13.58	13.63	13.91	14.18	14.24	14.44	14.49	14.76
12H	13.31	13.37	13.58	13.62	13.91	14.16	14.22	14.43	14.47	14.76
12H 4H	13.23	13.30	13.48	13.53	13.80	14.24	14.30	14.49	14.53	14.81
6H	13.30	13.37	13.57	13.61	13.89	14.30	14.36	14.56	14.61	14.89

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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

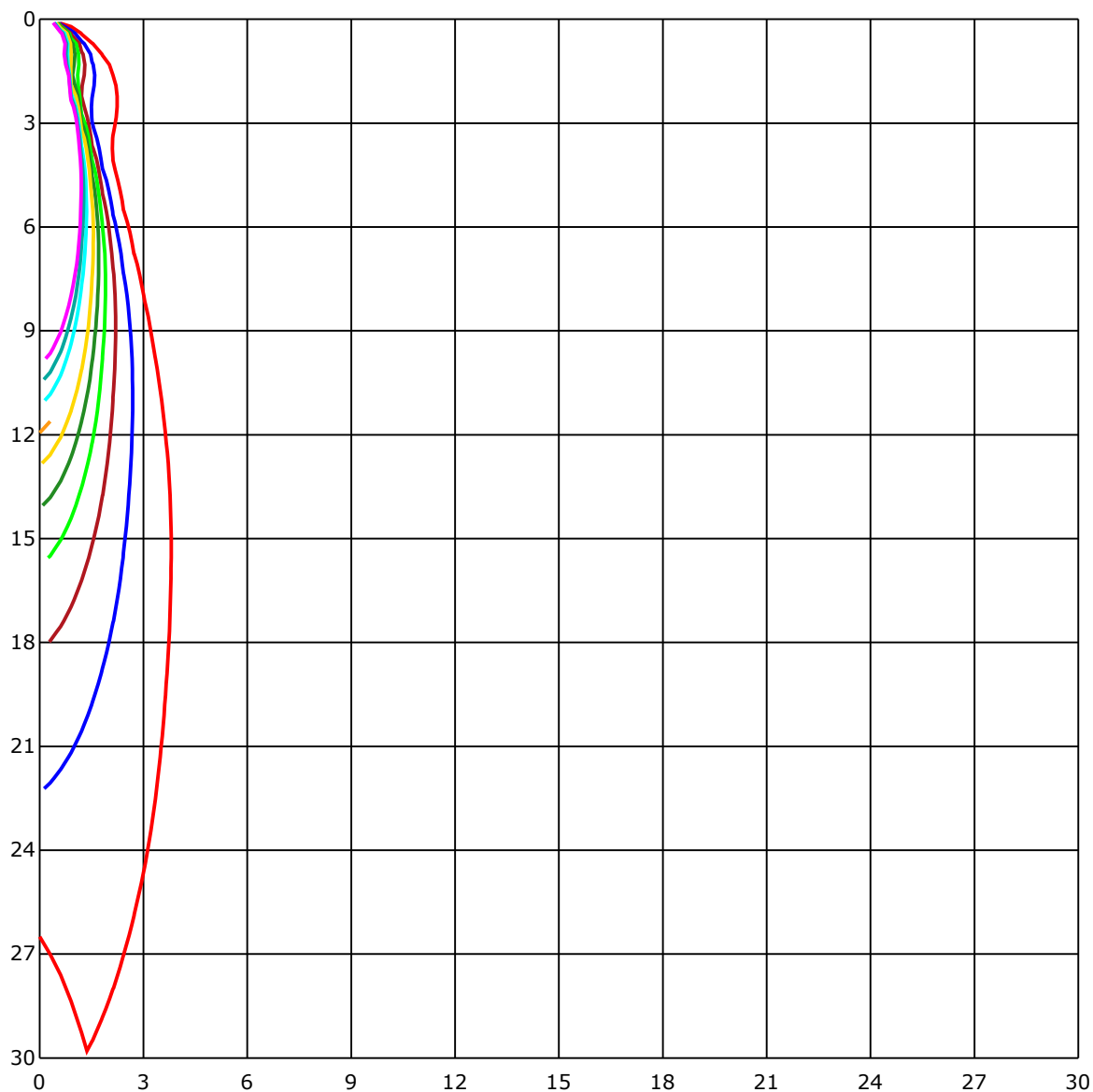
[illegible]

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

Report No.:

Test Time: 2025/8/1 18:30:14

SPACE ISOLX DIAGRAM



Unit of illumination:lx

67.118

60.406

53.694

46.982

40.271

33.559

26.847

20.135

13.424

6.712

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6701.68	6845.39	6806.97	6817.12	6701.68	6845.39	6806.97	6817.12	6701.68	
G1	6484.85	6761.57	6839.68	6722.21	6808.25	6803.24	6655.42	6785.59	6484.85	
G2	6196.62	6558.86	6736.74	6531.39	6793.57	6660.38	6434.78	6625.55	6196.62	
G3	5850.29	6282.62	6538.99	6270.2	6668.69	6443.18	6148.67	6391.22	5850.29	
G4	5454.64	5962.1	6284.13	5949.64	6458.09	6161.37	5799.04	6090.76	5454.64	
G5	5021.75	5588.92	5979.33	5576.03	6184.73	5828.06	5406.64	5742.35	5021.75	
G6	4576.83	5177.97	5629.65	5163.1	5852.32	5451.34	4988.19	5347.88	4576.83	
G7	4140.73	4744.0	5244.47	4729.93	5477.72	5044.92	4551.95	4923.82	4140.73	
G8	3704.34	4309.5	4828.38	4278.59	5061.21	4626.0	4118.07	4493.52	3704.34	
G9	3280.09	3876.9	4398.28	3841.69	4618.83	4199.16	3694.62	4059.17	3280.09	
G10	2885.71	3460.57	3982.29	3428.34	4184.57	3767.3	3279.0	3627.93	2885.71	
G11	2533.67	3073.98	3577.34	3032.21	3758.81	3362.64	2900.82	3224.07	2533.67	
G12	2222.55	2718.4	3197.07	2683.57	3347.02	2993.84	2551.61	2859.38	2222.55	
G13	1944.89	2396.05	2853.62	2364.09	2973.03	2655.44	2251.01	2523.52	1944.89	
G14	1700.32	2103.57	2524.19	2079.97	2618.48	2335.49	1958.29	2227.41	1700.32	
G15	1477.41	1838.89	2229.82	1819.82	2305.95	2052.83	1704.56	1958.15	1477.41	
G16	1272.0	1599.5	1961.22	1587.14	2030.22	1786.36	1469.1	1715.56	1272.0	
G17	1072.64	1383.96	1716.36	1367.86	1782.53	1546.41	1248.83	1486.84	1072.64	
G18	890.65	1177.56	1490.81	1163.92	1556.46	1324.06	1046.5	1272.95	890.65	
G19	732.17	990.99	1277.43	973.62	1340.72	1114.6	869.89	1073.02	732.17	
G20	592.93	820.14	1076.7	803.57	1137.21	929.17	712.39	895.09	592.93	
G21	475.04	668.97	899.57	651.27	951.87	764.21	573.87	729.95	475.04	
G22	379.04	540.64	740.66	523.04	785.07	619.46	456.91	588.17	379.04	
G23	305.51	434.02	603.74	417.74	637.16	499.11	363.94	472.58	305.51	
G24	251.75	351.1	490.23	337.46	511.94	400.75	292.43	378.66	251.75	
G25	213.24	287.62	399.43	276.34	410.66	327.22	241.36	309.23	213.24	
G26	185.53	240.23	329.25	232.68	333.12	270.67	204.17	258.31	185.53	
G27	165.71	205.87	276.29	201.96	277.42	230.04	178.26	220.88	165.71	
G28	152.68	180.72	236.74	179.16	235.61	200.07	160.14	194.45	152.68	
G29	143.01	163.68	208.42	163.87	206.86	179.87	147.63	175.53	143.01	
G30	135.69	151.31	188.41	152.87	186.0	164.81	138.48	162.31	135.69	
G31	130.26	142.87	173.45	144.38	171.09	154.15	132.1	152.54	130.26	
G32	126.06	136.26	162.45	138.1	160.75	146.12	126.91	145.41	126.06	
G33	122.33	131.02	154.48	132.86	152.16	139.8	122.33	139.04	122.33	
G34	119.46	126.77	147.44	128.56	145.51	134.51	118.7	134.23	119.46	
G35	116.53	123.04	141.97	124.84	139.99	130.07	115.59	130.07	116.53	
G36	113.93	119.64	137.01	121.48	135.36	126.35	112.71	126.35	113.93	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 18:30:14

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: 2025/8/1 18:30:14

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	111.53	116.77	132.86	117.95	131.3	122.85	109.92	122.95	111.53	
G38	109.07	114.03	128.94	115.02	127.76	119.74	107.37	120.02	109.07	
G39	106.67	111.67	125.36	112.23	124.36	116.91	105.11	117.14	106.67	
G40	104.73	108.84	122.05	109.87	121.3	113.79	102.79	114.45	104.73	
G41	102.42	106.71	119.08	107.09	118.28	111.57	100.67	111.72	102.42	
G42	100.48	104.35	116.06	104.87	115.54	108.93	98.5	109.4	100.48	
G43	98.36	102.51	112.9	102.23	112.71	106.52	96.56	106.85	98.36	
G44	96.47	99.96	110.25	100.2	110.54	104.12	94.77	105.01	96.47	
G45	94.39	98.12	107.61	97.84	107.66	102.09	92.6	102.56	94.39	
G46	92.55	96.09	105.01	96.0	105.44	99.87	90.52	100.72	92.55	
G47	90.57	94.16	102.75	93.64	103.08	97.51	88.64	98.17	90.57	
G48	88.31	91.66	100.48	91.7	100.58	95.57	86.8	95.95	88.31	
G49	86.23	89.91	98.08	89.63	98.5	93.69	84.91	93.78	86.23	
G50	84.39	87.5	95.72	87.55	96.19	91.37	82.74	92.22	84.39	
G51	82.31	85.62	93.4	85.28	94.25	89.39	80.99	89.77	82.31	
G52	80.19	83.44	91.09	83.26	91.75	87.17	78.87	87.55	80.19	
G53	78.3	81.23	88.97	81.27	89.63	85.24	77.03	85.71	78.3	
G54	76.08	79.01	86.75	79.34	87.6	82.97	74.95	83.35	76.08	
G55	74.0	76.88	84.48	77.03	85.76	80.8	73.25	81.13	74.0	
G56	71.79	74.81	82.03	75.09	83.35	78.87	71.41	79.43	71.79	
G57	69.0	72.64	79.72	72.73	81.08	76.93	69.29	77.17	69.0	
G58	66.22	70.18	77.87	70.65	78.96	75.14	66.64	74.95	66.22	
G59	63.06	67.54	75.28	67.63	76.79	71.98	64.05	71.83	63.06	
G60	60.22	64.28	72.12	64.85	74.48	69.0	60.79	68.58	60.22	
G61	57.25	61.4	68.95	61.73	71.46	66.45	58.24	65.56	57.25	
G62	54.56	58.76	65.98	59.04	68.39	63.29	55.31	62.63	54.56	
G63	51.92	55.79	63.2	56.07	65.13	60.55	52.86	59.89	51.92	
G64	48.75	52.95	60.13	53.57	62.35	57.86	50.31	57.2	48.75	
G65	46.16	50.5	57.3	50.74	59.47	55.41	47.1	54.51	46.16	
G66	43.66	47.43	54.75	47.81	56.78	52.39	44.7	51.96	43.66	
G67	41.3	44.79	51.92	45.03	53.99	49.84	42.62	48.85	41.3	
G68	38.89	42.43	48.8	42.71	51.4	46.87	39.93	46.3	38.89	
G69	36.62	40.07	46.25	40.12	48.24	44.65	37.76	43.85	36.62	
G70	34.31	37.66	43.75	37.9	45.83	42.1	35.4	41.82	34.31	
G71	32.0	35.3	41.2	35.59	43.23	39.83	33.37	39.17	32.0	
G72	29.97	33.04	38.84	33.27	40.83	37.47	31.24	36.86	29.97	
G73	27.75	30.82	36.48	31.15	38.47	35.54	28.93	34.69	27.75	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 18:30:14

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

Test Time: 2025/8/1 18:30:14

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