

Report No.:

Test Time: 2025/5/13 9:57:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095H135-38°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

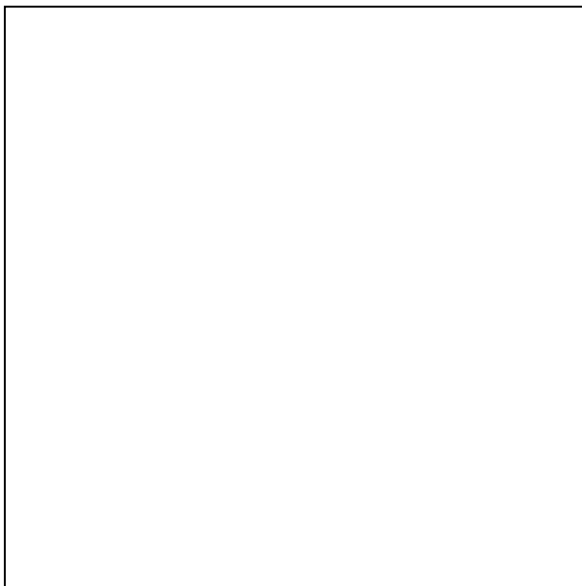
Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.64 W
Power Factor: 0.9730
Lamp Luminous Flux: 3607.59

Photometric Results

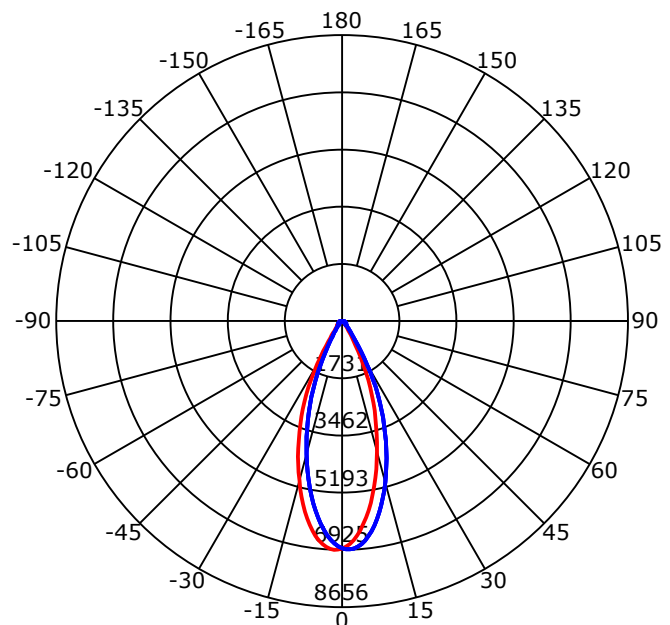
CIE Class: Direct
Luminaire Luminous Flux: 3607.589 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.00 lm/W
Beam Angle(50%) C0-180,C90-270: 39.0,39.6
Field Angle(10%) C0-180,C90-270: 64.5,65.5
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 6924.54 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6889.47 cd
Effective Luminous Flux: 2991.64 lm
ERP(ϕ use)(120deg): 3442.70 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.0 deg,39.6 deg

C0-180 — C90-270 —

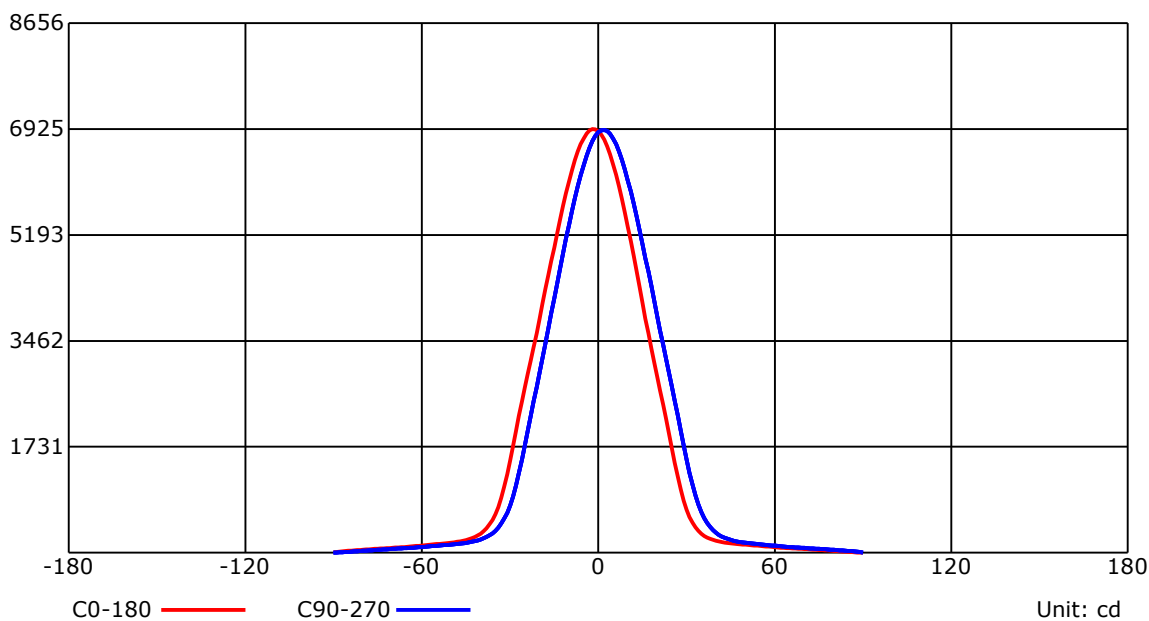
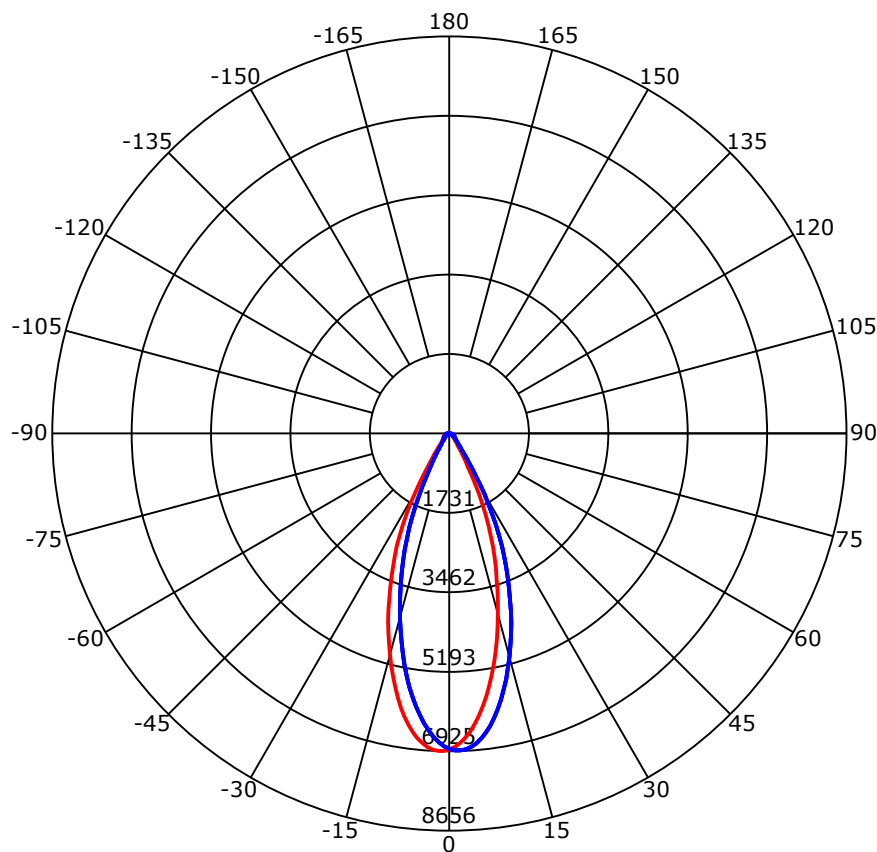
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

Luminous Intensity Distribution Curve



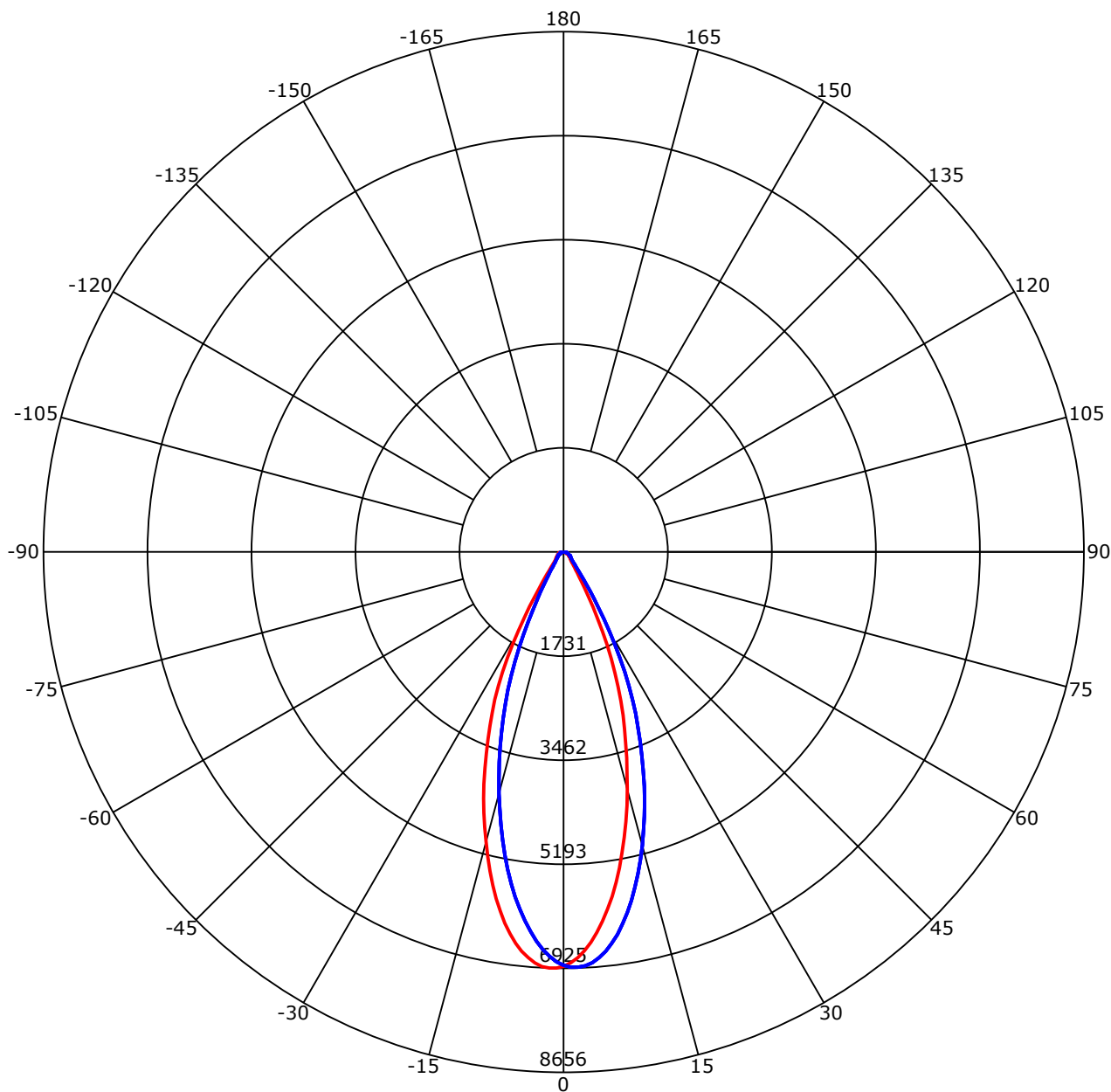
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

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

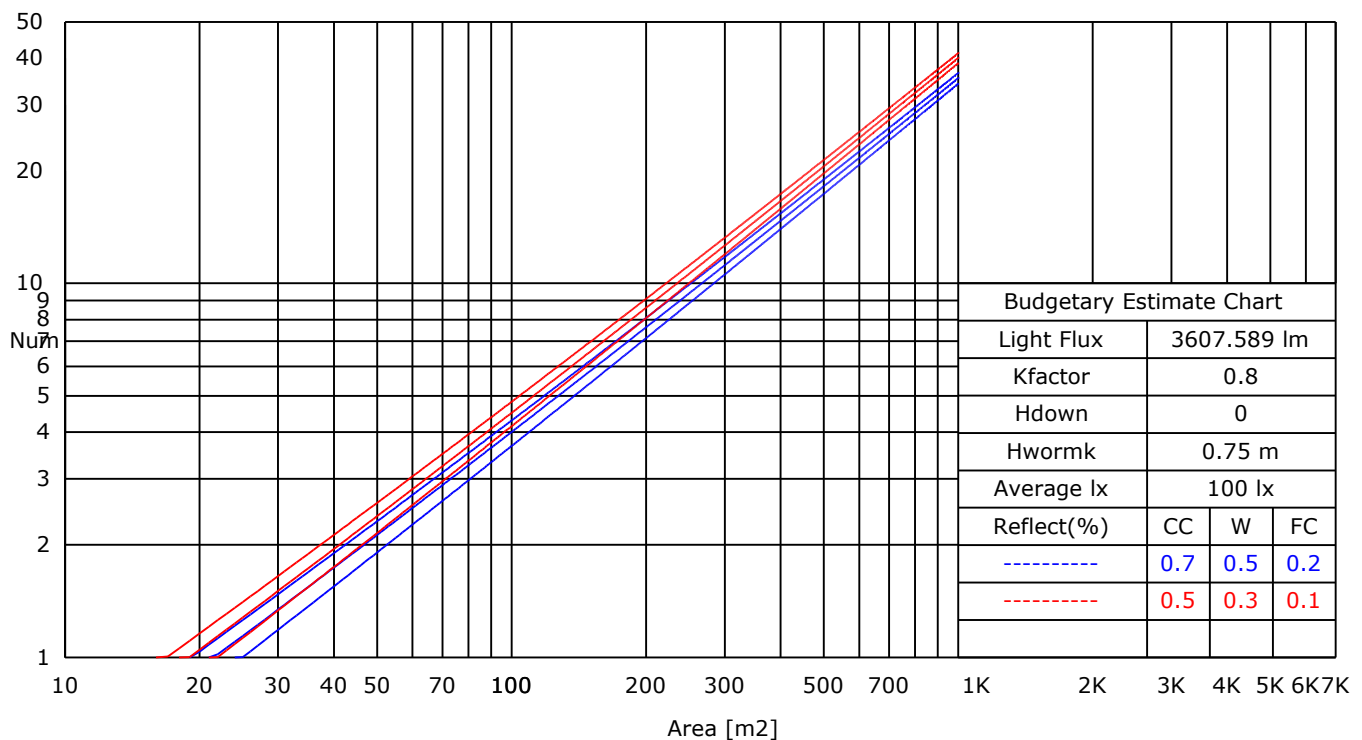
Report No.:

Test Time: 2025/5/13 9:57:54

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	1.00	0.98	0.96	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.85	0.83	0.80	0.75
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.84	0.82	0.83	0.79	0.76	0.71
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.87	0.85	0.84	0.87	0.84	0.82	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.80	0.81	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.64
6	0.81	0.80	0.79	0.81	0.78	0.77	0.79	0.76	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
7	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
8	0.77	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.70	0.65	0.62	0.58
9	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.72	0.71	0.72	0.70	0.69	0.70	0.68	0.66	0.68	0.65	0.62	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



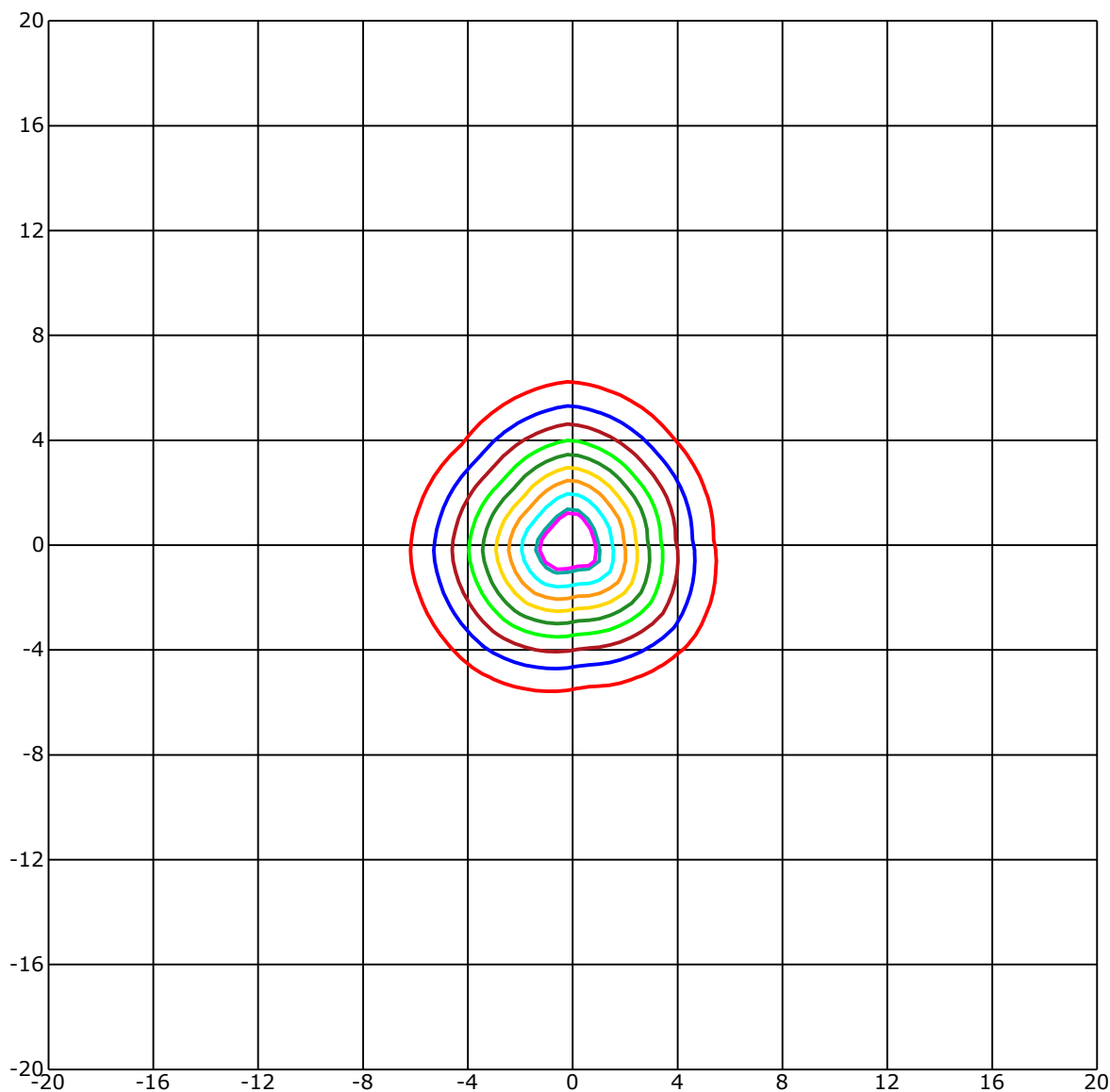
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

ISOLX DIAGRAM



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

63.656(92%Emax)	34.596(50%Emax)
62.272(90%Emax)	27.676(40%Emax)
55.353(80%Emax)	20.757(30%Emax)
48.434(70%Emax)	13.838(20%Emax)
41.515(60%Emax)	6.919(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

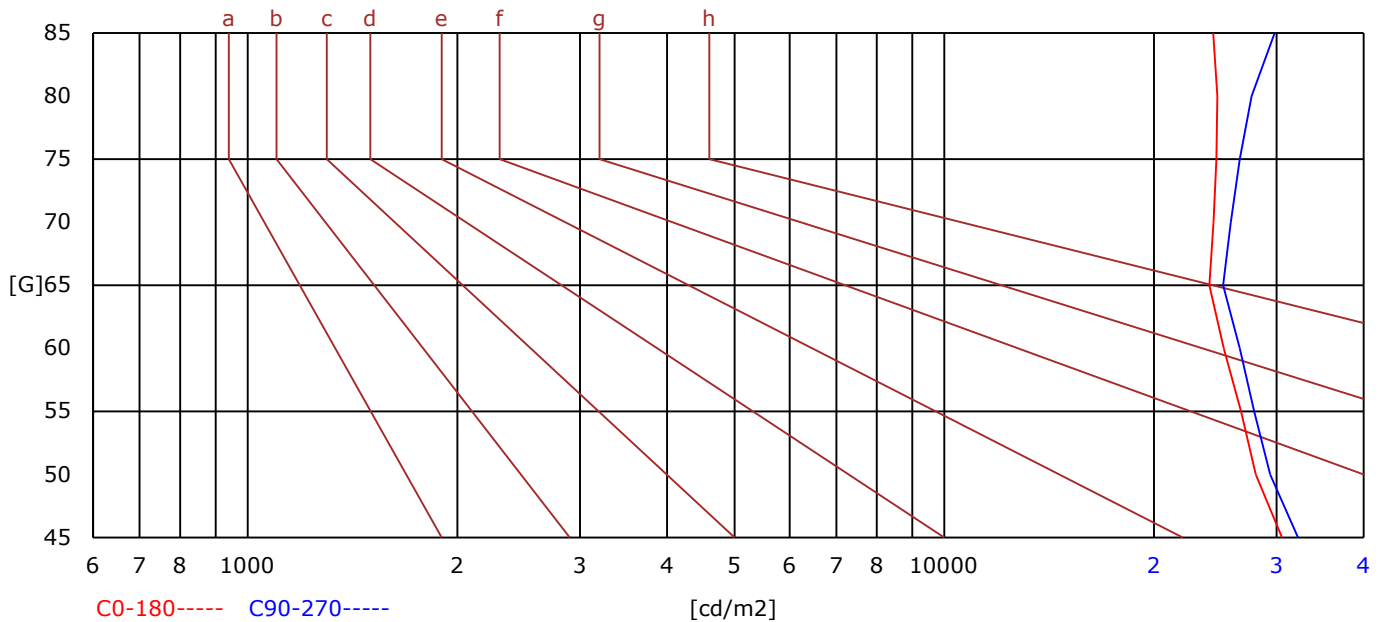
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/5/13 9:57:54

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	30549	27986	26668	25181	24024	24349	24582	24659	24309
C90	32182	29346	27859	26559	25141	25785	26554	27599	29800
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



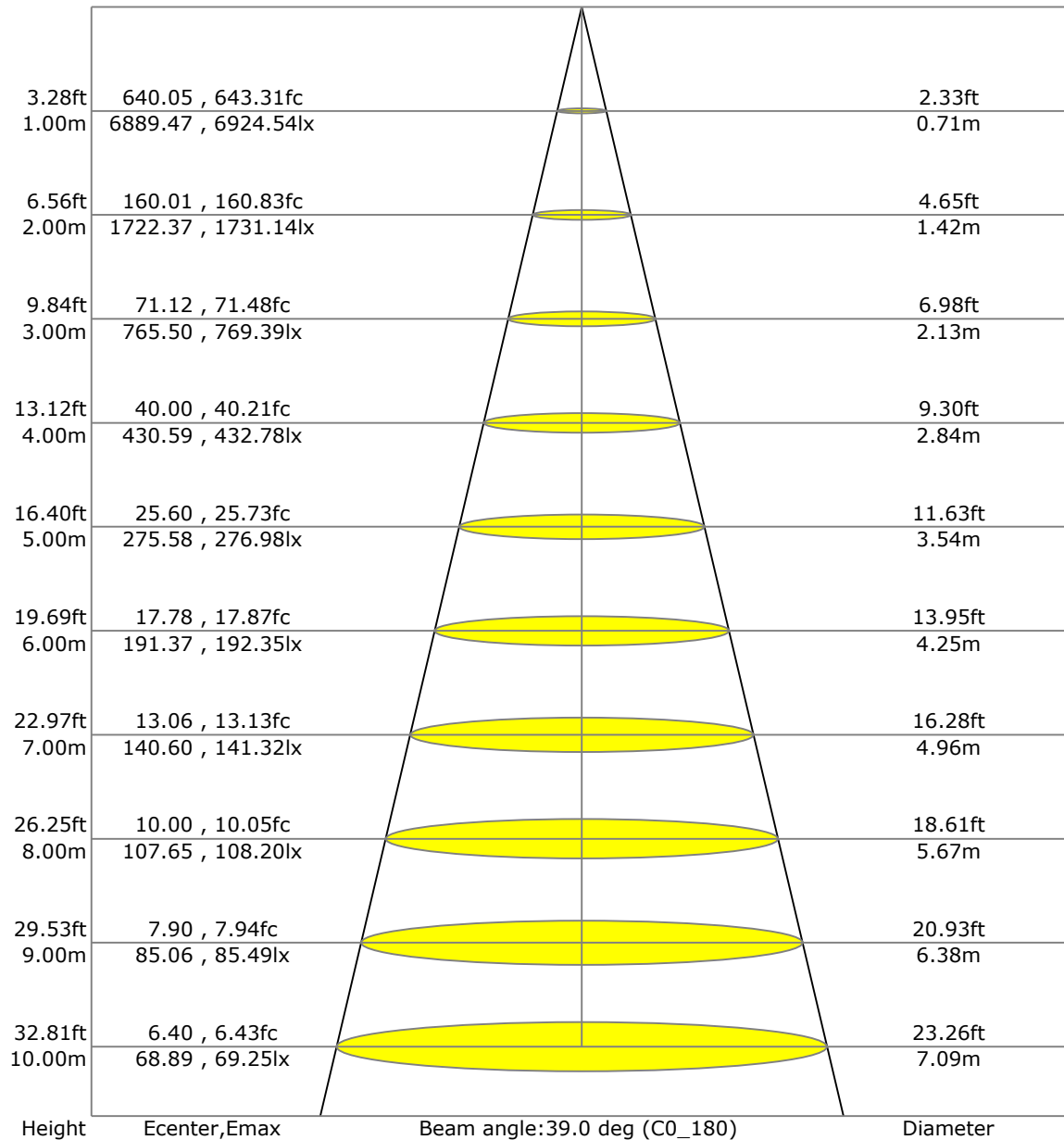
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

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	11.14	11.20	11.34	11.38	11.63	11.49	11.54	11.69	11.73	11.97
3H	11.31	11.36	11.51	11.55	11.80	11.61	11.66	11.82	11.86	12.10
4H	11.34	11.40	11.55	11.59	11.84	11.63	11.68	11.84	11.88	12.13
6H	11.34	11.40	11.56	11.60	11.85	11.62	11.67	11.83	11.87	12.13
8H	11.33	11.39	11.55	11.59	11.84	11.61	11.67	11.83	11.87	12.12
12H	11.32	11.38	11.54	11.58	11.84	11.60	11.66	11.82	11.86	12.12
4H 2H	13.02	13.07	13.23	13.27	13.52	13.71	13.77	13.93	13.97	14.21
3H	13.38	13.44	13.60	13.64	13.90	14.02	14.08	14.24	14.28	14.54
4H	13.49	13.55	13.72	13.76	14.02	14.10	14.15	14.33	14.37	14.62
6H	13.54	13.60	13.78	13.82	14.08	14.12	14.17	14.36	14.40	14.66
8H	13.55	13.60	13.79	13.83	14.09	14.12	14.17	14.36	14.40	14.66
12H	13.54	13.60	13.79	13.83	14.10	14.11	14.16	14.36	14.39	14.66
8H 4H	13.57	13.63	13.79	13.83	14.08	14.60	14.66	14.82	14.86	15.11
6H	14.41	14.46	14.66	14.70	14.97	15.36	15.41	15.61	15.64	15.92
8H	14.45	14.50	14.71	14.74	15.02	15.38	15.42	15.64	15.67	15.94
12H	14.47	14.51	14.74	14.77	15.05	15.37	15.42	15.64	15.67	15.95
12H 4H	14.42	14.47	14.67	14.71	14.98	15.64	15.69	15.89	15.92	16.19
6H	14.60	14.65	14.86	14.89	15.17	15.80	15.85	16.06	16.09	16.37

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

ZONAL LUMINOUS FLUX TABLE

[illegible]

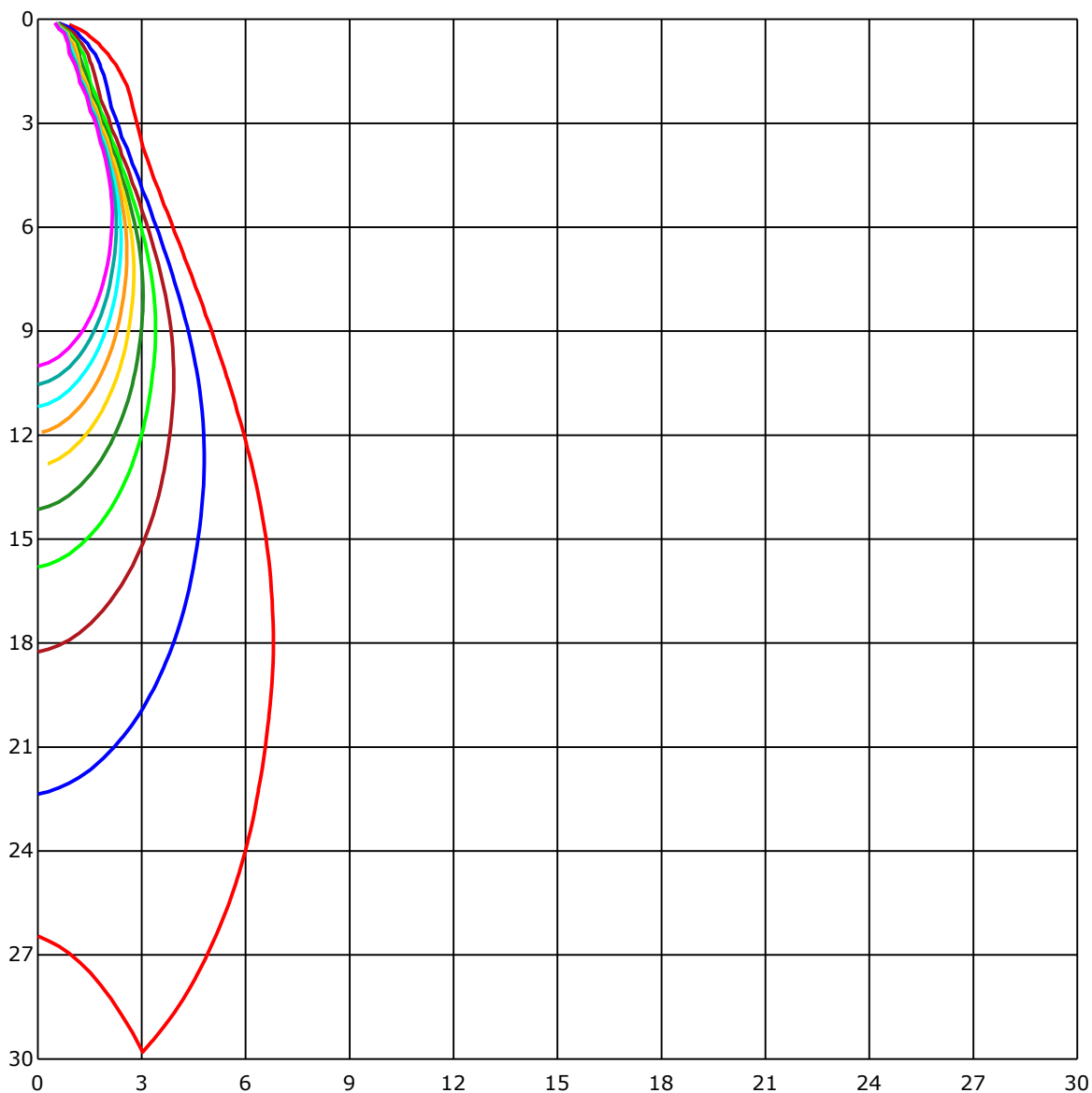
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

SPACE ISOLX DIAGRAM



Unit of illumination:lx

68.892	34.446
62.003	27.557
55.114	20.668
48.224	13.778
41.335	6.889

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6889.47	6892.87	6872.2	6919.11	6889.47	6892.87	6872.2	6919.11	6889.47	
G1	6831.19	6852.66	6904.58	6903.77	6919.77	6905.14	6816.27	6912.79	6831.19	
G2	6749.82	6792.77	6911.42	6857.62	6924.54	6889.52	6730.18	6877.01	6749.82	
G3	6642.35	6707.1	6891.83	6785.4	6903.49	6849.07	6623.57	6815.56	6642.35	
G4	6509.07	6594.02	6845.77	6689.12	6851.81	6780.59	6489.95	6731.18	6509.07	
G5	6352.75	6455.4	6774.97	6570.75	6774.31	6686.86	6336.56	6622.29	6352.75	
G6	6177.27	6301.97	6678.55	6421.85	6678.17	6576.23	6167.74	6486.98	6177.27	
G7	5986.27	6122.38	6560.7	6255.71	6557.44	6442.09	5988.2	6333.73	5986.27	
G8	5785.44	5933.26	6423.21	6071.13	6415.29	6288.8	5792.95	6160.23	5785.44	
G9	5565.74	5721.26	6263.78	5871.63	6250.19	6118.46	5586.08	5976.07	5565.74	
G10	5335.61	5511.7	6089.53	5657.87	6069.66	5928.17	5360.25	5778.93	5335.61	
G11	5094.62	5291.67	5903.58	5433.97	5874.98	5726.54	5130.49	5563.38	5094.62	
G12	4853.78	5062.25	5704.41	5204.12	5667.03	5516.0	4890.21	5337.45	4853.78	
G13	4602.55	4822.53	5495.8	4968.84	5449.07	5297.29	4646.06	5107.46	4602.55	
G14	4347.68	4585.23	5276.28	4726.49	5222.9	5073.9	4400.69	4872.04	4347.68	
G15	4093.2	4346.46	5051.06	4495.46	4989.85	4848.77	4164.37	4642.62	4093.2	
G16	3829.46	4105.56	4817.06	4265.23	4761.41	4621.33	3911.21	4409.18	3829.46	
G17	3584.09	3848.95	4594.62	4018.16	4535.15	4391.63	3660.69	4166.17	3584.09	
G18	3340.64	3586.68	4363.31	3783.92	4312.57	4157.1	3419.37	3909.74	3340.64	
G19	3108.95	3350.18	4118.4	3532.59	4078.99	3907.05	3183.1	3652.0	3108.95	
G20	2886.28	3111.22	3872.27	3298.83	3825.07	3654.22	2948.63	3416.25	2886.28	
G21	2654.02	2884.63	3631.14	3074.08	3585.22	3426.68	2707.97	3198.44	2654.02	
G22	2417.66	2652.94	3398.98	2863.53	3355.09	3194.99	2471.65	2987.05	2417.66	
G23	2188.95	2421.34	3166.72	2632.69	3135.34	2967.32	2232.74	2751.49	2188.95	
G24	1948.43	2183.09	2943.1	2405.91	2926.02	2729.49	1996.48	2519.94	1948.43	
G25	1707.87	1938.05	2716.47	2162.42	2708.44	2501.01	1757.47	2284.71	1707.87	
G26	1464.94	1700.88	2482.37	1912.42	2478.92	2261.63	1523.47	2042.45	1464.94	
G27	1237.36	1480.05	2236.09	1661.94	2238.5	2023.61	1298.62	1790.13	1237.36	
G28	1031.87	1263.32	1990.81	1431.34	1984.87	1781.35	1097.52	1549.29	1031.87	
G29	849.4	1066.46	1752.99	1207.01	1741.66	1547.63	918.26	1318.87	849.4	
G30	700.21	894.76	1523.42	1007.75	1506.1	1327.74	772.42	1103.42	700.21	
G31	583.5	746.7	1305.04	836.14	1281.11	1125.6	652.64	916.89	583.5	
G32	490.52	626.11	1105.78	697.99	1073.64	949.79	554.94	762.37	490.52	
G33	415.8	528.23	932.33	586.47	895.99	803.53	475.18	639.52	415.8	
G34	355.53	449.5	785.36	497.79	746.99	679.64	409.15	541.21	355.53	
G35	310.18	386.21	664.15	426.9	629.89	578.3	356.67	460.45	310.18	
G36	275.16	334.53	566.83	369.46	534.74	494.77	316.27	397.73	275.16	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	248.44	293.99	485.89	323.53	459.93	430.06	283.98	349.49	248.44	
G38	226.31	262.65	419.53	287.57	397.63	378.14	257.32	311.07	226.31	
G39	209.04	237.59	367.1	258.59	349.92	334.11	234.99	280.3	209.04	
G40	194.83	217.86	324.81	236.03	311.78	299.98	216.87	255.81	194.83	
G41	183.27	202.1	291.39	216.49	281.62	273.18	201.39	235.84	183.27	
G42	173.07	188.65	264.92	200.82	257.18	250.38	188.65	219.75	173.07	
G43	165.09	176.85	242.59	188.22	237.49	232.16	177.65	205.64	165.09	
G44	158.49	167.22	224.23	177.55	220.88	215.97	168.87	194.31	158.49	
G45	152.45	159.76	208.75	168.3	207.29	203.75	160.56	184.87	152.45	
G46	147.25	153.15	196.1	161.37	195.54	192.33	153.81	176.71	147.25	
G47	142.49	147.35	185.44	154.48	186.33	183.03	147.35	169.34	142.49	
G48	137.96	142.25	176.14	148.81	178.17	174.58	142.63	163.63	137.96	
G49	133.94	137.53	168.68	143.62	171.32	167.69	137.63	157.73	133.94	
G50	129.7	133.05	162.26	139.51	164.76	161.74	133.43	153.25	129.7	
G51	126.2	128.94	156.03	135.08	159.43	156.84	129.18	147.96	126.2	
G52	122.29	124.84	150.89	130.5	154.0	151.17	124.93	143.34	122.29	
G53	118.09	121.25	145.89	126.25	149.1	146.59	120.82	139.04	118.09	
G54	114.26	116.81	141.17	122.48	144.47	141.78	117.1	134.98	114.26	
G55	110.2	113.13	136.54	118.18	140.27	137.15	113.08	130.12	110.2	
G56	106.43	108.88	132.62	114.26	135.74	132.76	109.07	126.2	106.43	
G57	102.18	105.25	127.9	110.02	131.49	128.42	104.87	121.58	102.18	
G58	98.36	101.05	123.51	106.71	126.72	123.99	100.91	117.57	98.36	
G59	94.11	97.32	118.84	102.28	122.52	119.55	96.9	112.94	94.11	
G60	89.63	93.12	114.5	98.22	117.99	115.11	92.74	109.02	89.63	
G61	84.91	88.68	110.39	93.92	113.79	110.68	88.07	104.49	84.91	
G62	80.9	83.77	106.1	89.91	109.4	106.48	83.87	100.25	80.9	
G63	78.44	80.19	101.85	84.91	105.06	101.85	80.71	94.72	78.44	
G64	75.66	77.4	96.66	81.32	100.1	96.38	78.06	91.04	75.66	
G65	73.11	75.09	92.32	78.58	95.53	92.84	75.37	88.16	73.11	
G66	70.32	72.31	89.25	76.22	91.94	89.63	72.78	85.19	70.32	
G67	67.68	69.57	86.37	73.58	88.97	86.89	70.04	82.12	67.68	
G68	64.99	66.93	83.26	70.75	85.95	83.68	67.21	79.29	64.99	
G69	62.35	64.42	80.38	68.11	83.02	80.66	64.28	76.46	62.35	
G70	59.56	61.59	77.45	65.23	79.81	77.92	61.73	73.58	59.56	
G71	57.01	59.0	74.71	62.49	76.93	74.71	58.62	70.56	57.01	
G72	54.09	55.98	71.79	59.75	73.86	71.5	55.79	67.59	54.09	
G73	50.93	53.14	68.72	56.73	70.89	68.53	52.86	64.52	50.93	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 9:57:54

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: 2025/5/13 9:57:54

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