

Report No.:

Test Time: 2025/7/16 17:48:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-3F-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

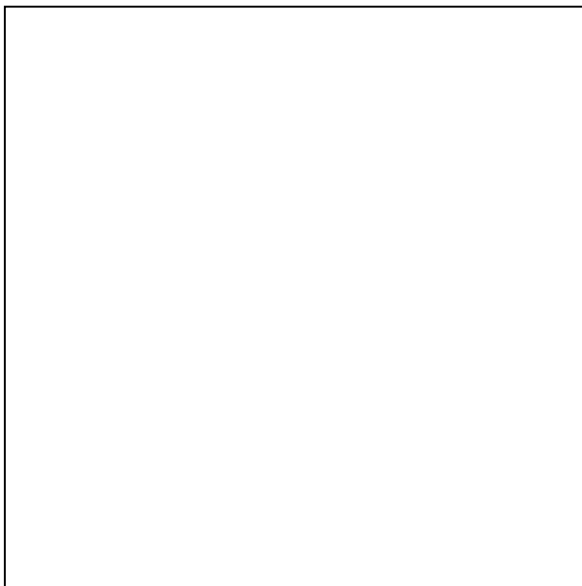
Voltage(V): 219.80 V
Current(A): 0.3420 A
Power(W): 72.64 W
Power Factor: 0.9660
Lamp Luminous Flux: 6483.21

Photometric Results

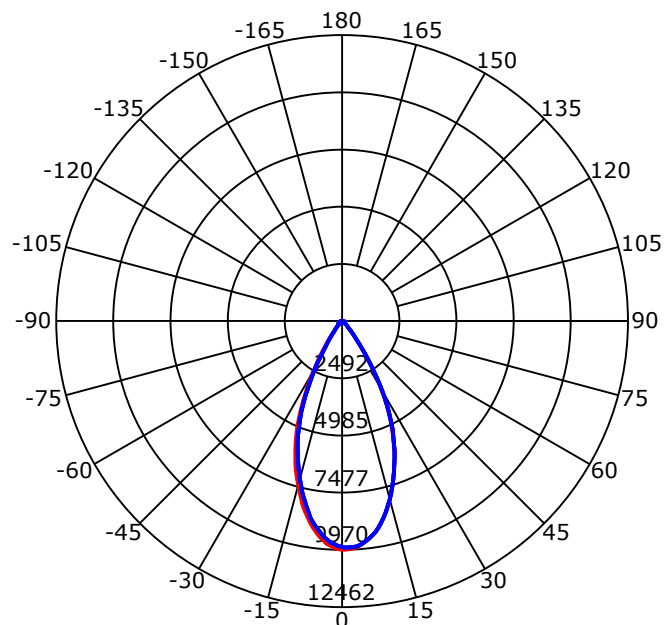
CIE Class: Direct
Luminaire Luminous Flux: 6483.214 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.25 lm/W
Beam Angle(50%) C0-180,C90-270: 48.4,48.2
Field Angle(10%) C0-180,C90-270: 73.9,73.1
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 9969.68 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9969.68 cd
Effective Luminous Flux: 5840.22 lm
ERP(ϕ use)(120deg): 6394.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.4 deg,48.2 deg

C0-180 — C90-270 —

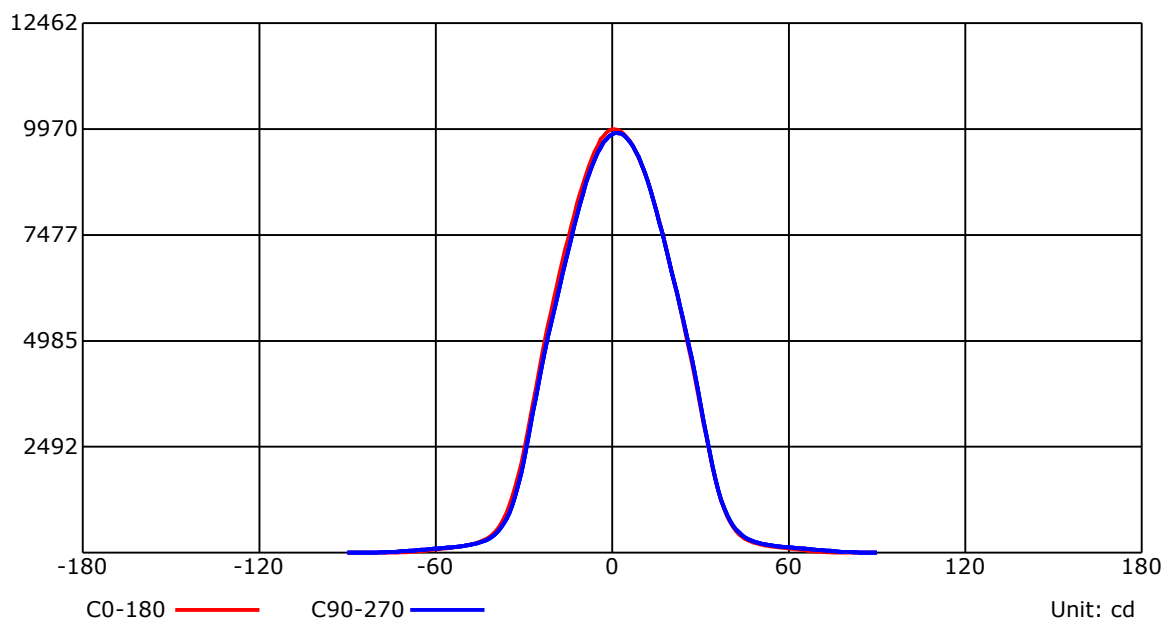
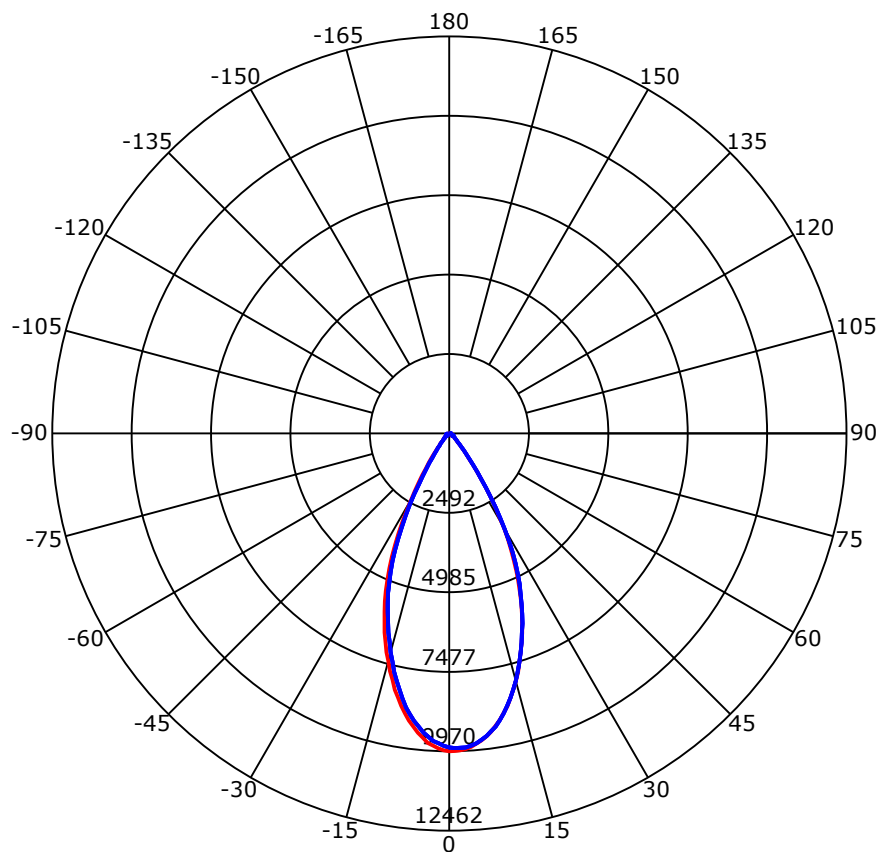
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 17:48:59

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 17:48:59

Luminous Intensity Distribution Curve



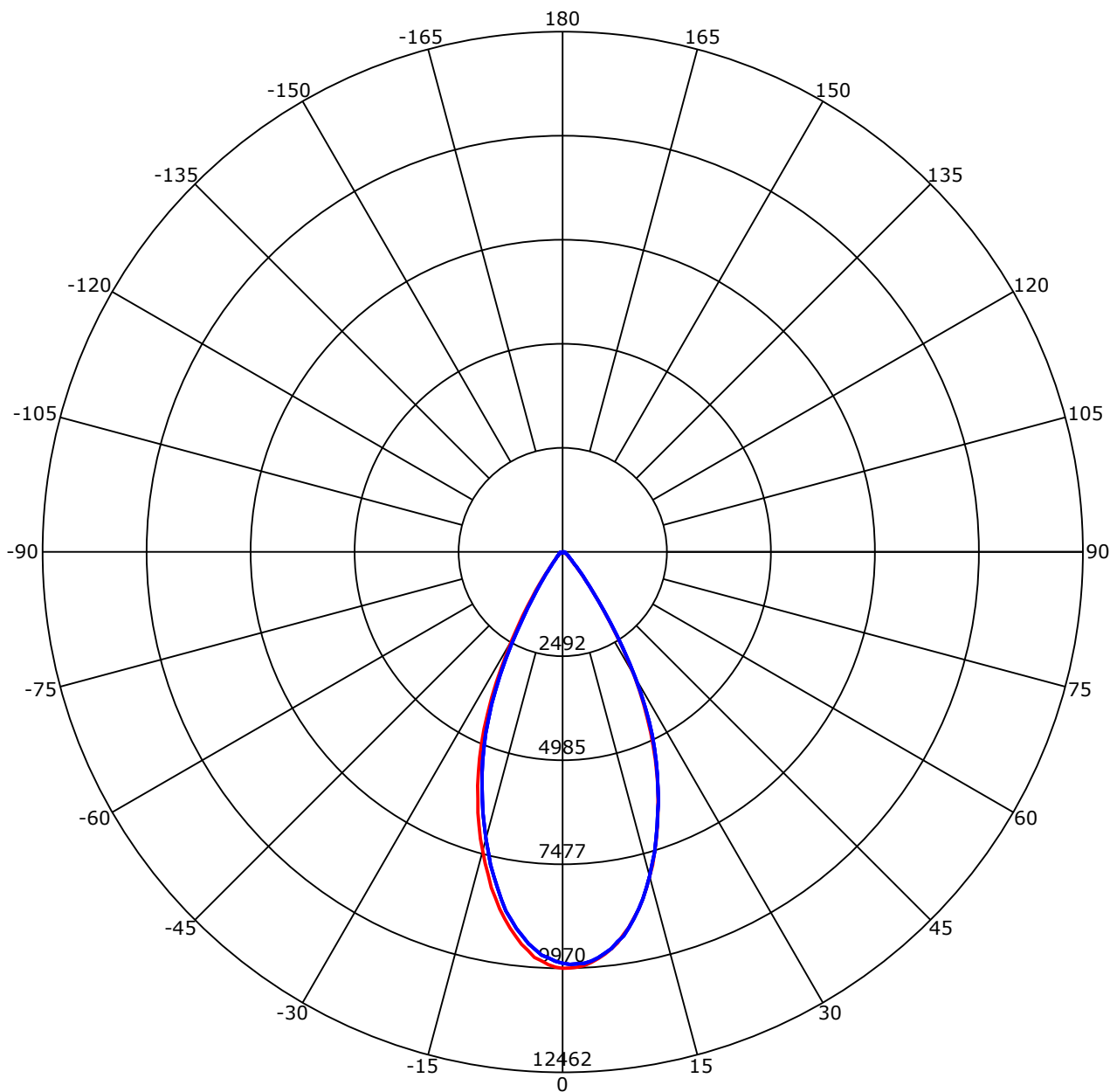
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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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 17:48:59

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

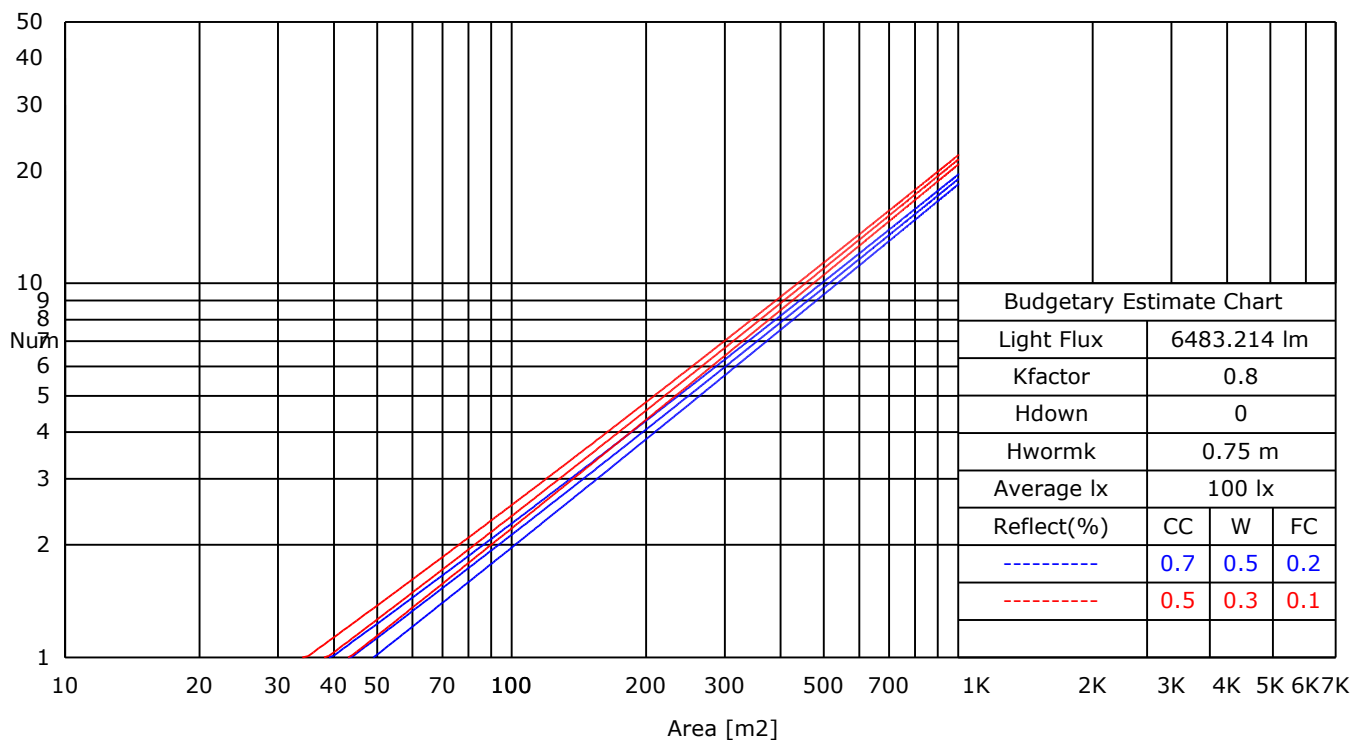
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UTILIZATION FACTORS TABLE

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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.86	0.83	0.78
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.86	0.85	0.82	0.80	0.75
3	0.95	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.86	0.88	0.84	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.75	0.71	0.67
6	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.79	0.77	0.79	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	0.78	0.76	0.77	0.75	0.73	0.75	0.71	0.69	0.72	0.68	0.65	0.62
9	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.71	0.73	0.69	0.67	0.70	0.66	0.63	0.60
10	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.71	0.69	0.71	0.68	0.65	0.69	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



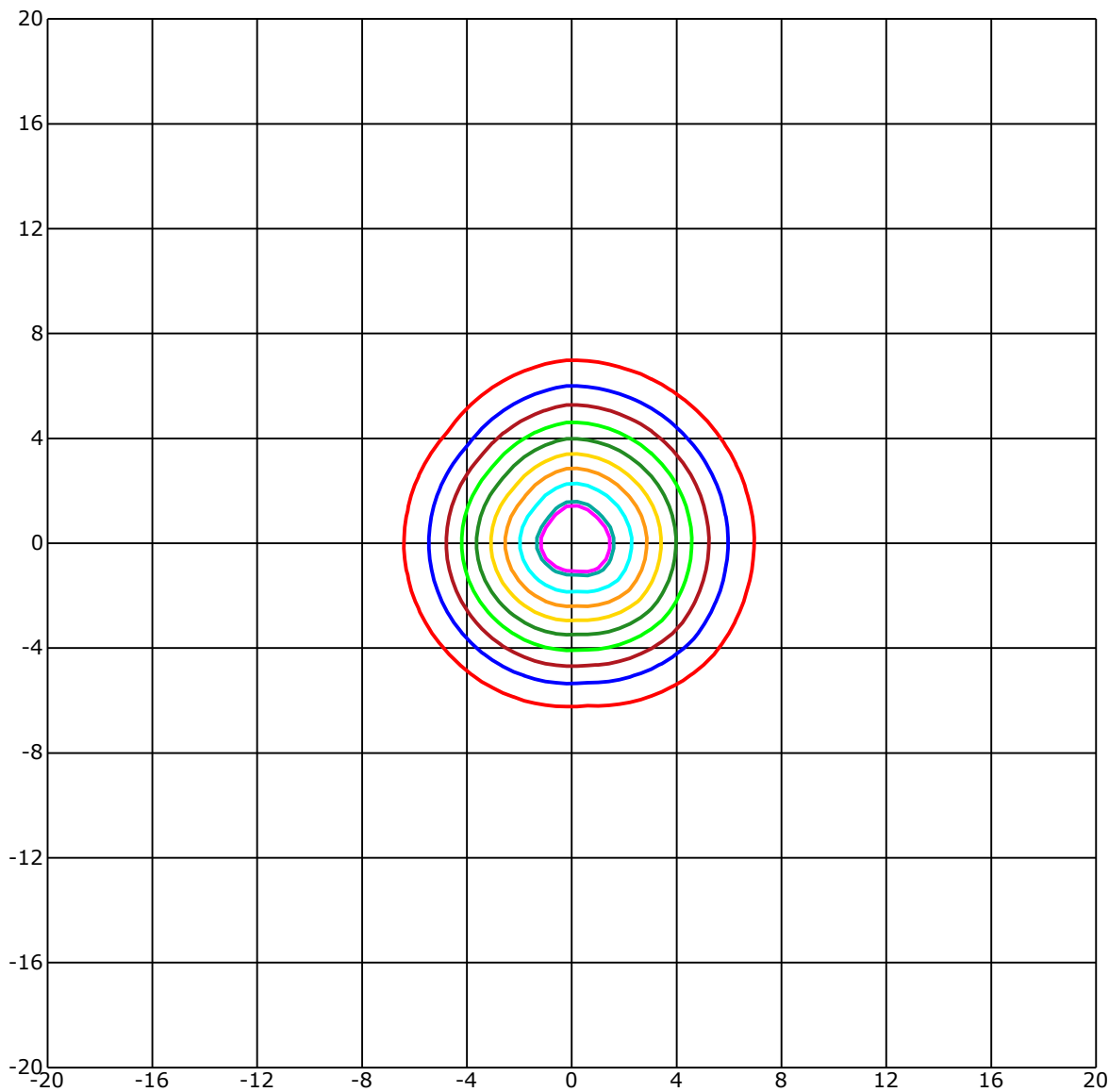
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 17:48:59

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)

- | | |
|-----------------|-----------------|
| 91.721(92%Emax) | 49.848(50%Emax) |
| 89.727(90%Emax) | 39.879(40%Emax) |
| 79.757(80%Emax) | 29.909(30%Emax) |
| 69.788(70%Emax) | 19.939(20%Emax) |
| 59.818(60%Emax) | 9.97(10%Emax) |

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
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Operators: QC01
Test Date: 2025/7/16 17:48:59

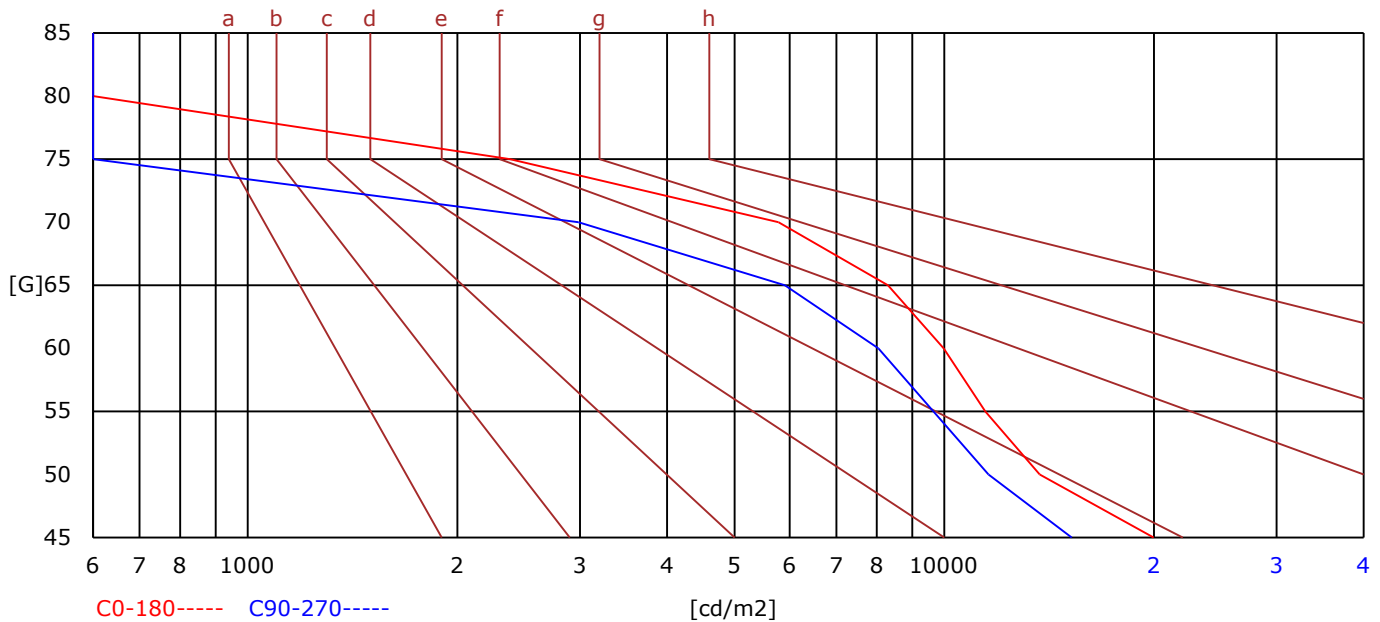
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	19982	13712	11455	9975	8305	5783	2381	0	0
C90	15243	11570	9646	8046	5907	2984	261	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



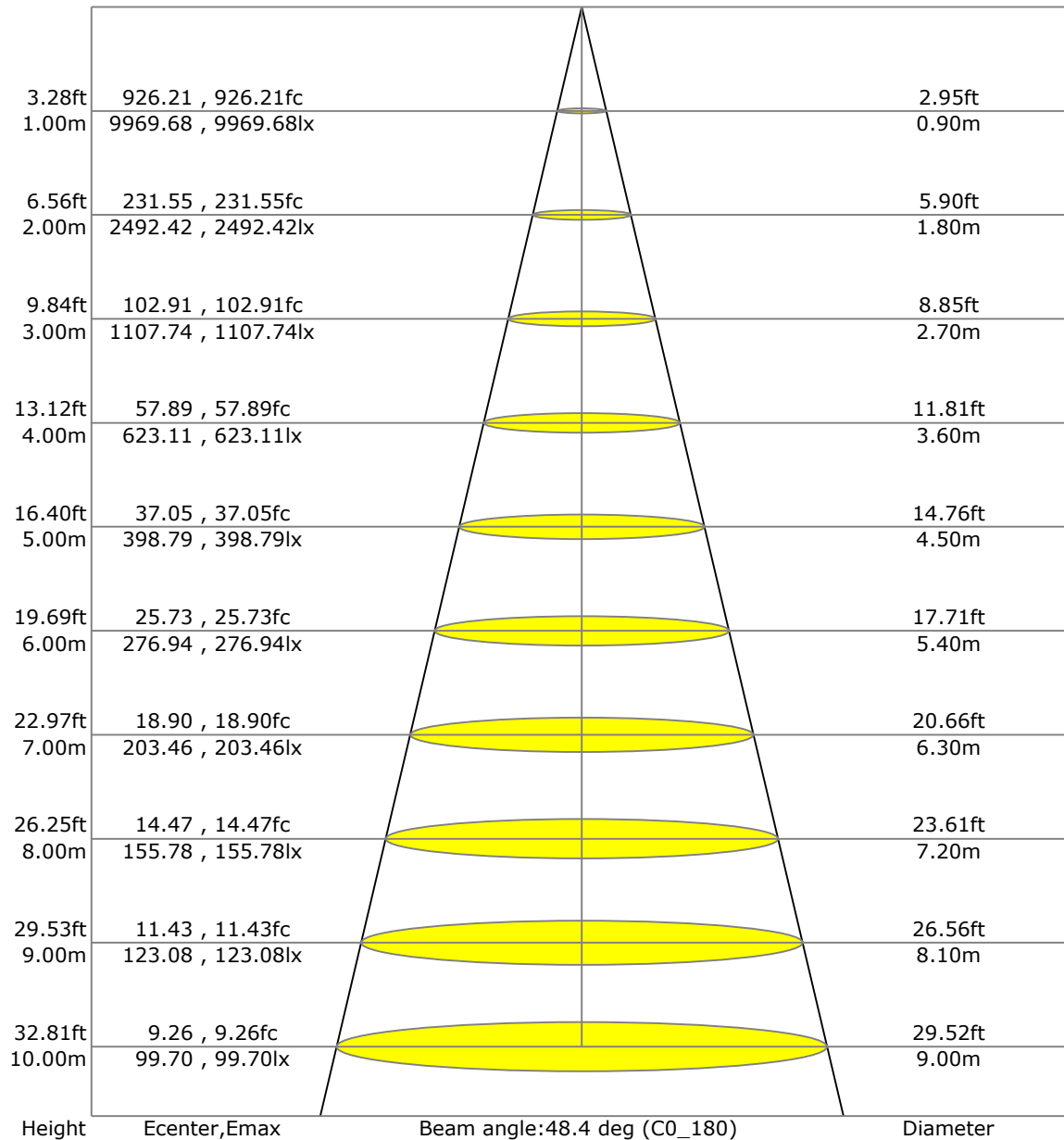
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 17:48:59

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 17:48:59

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 17:48:59

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

UGR(Unified Glare Rating) TABLE

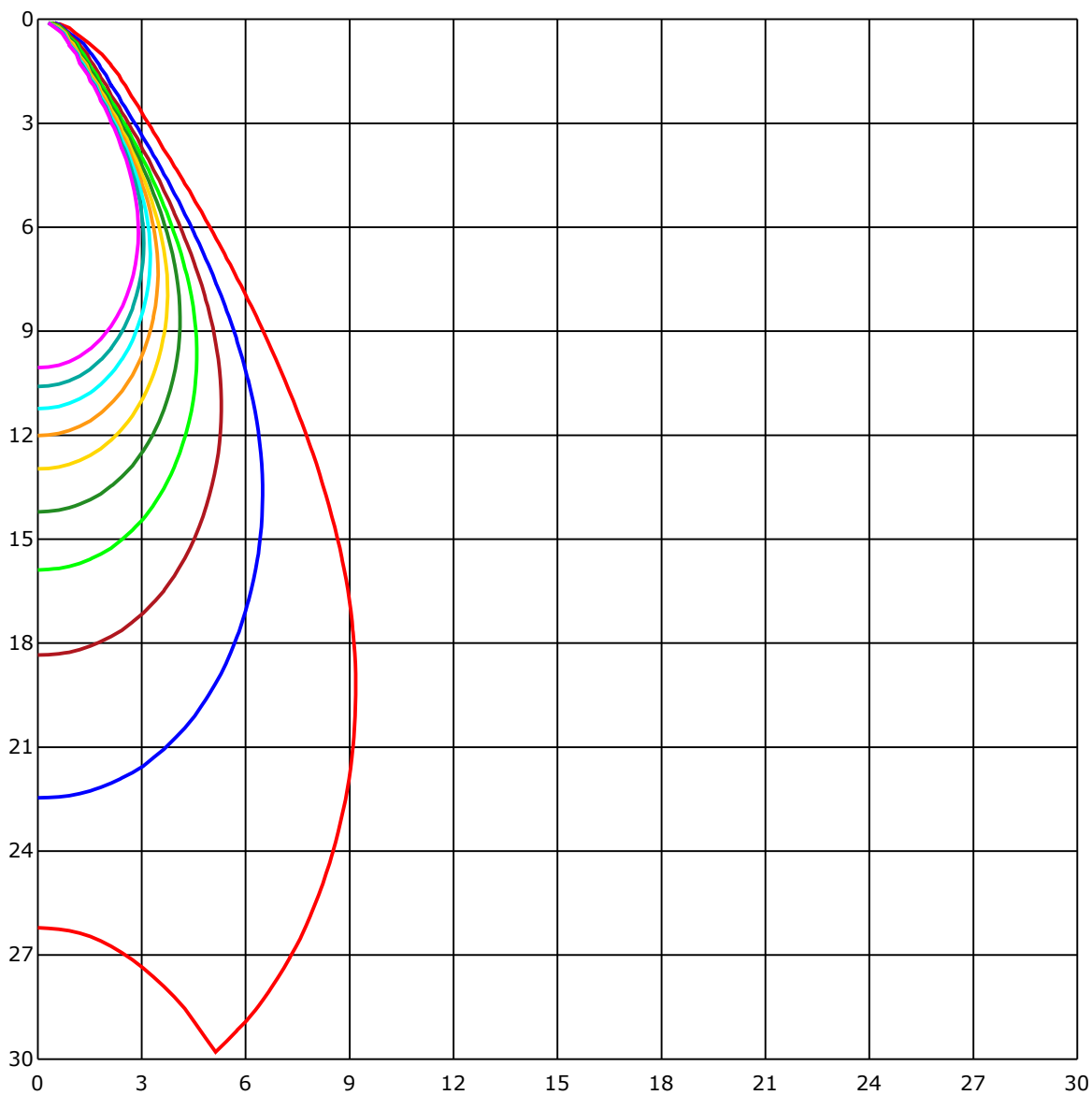
RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	9.77	9.82	9.97	10.01	10.25	9.84	9.89	10.04	10.08	10.32
3H	9.77	9.82	9.98	10.01	10.26	9.83	9.88	10.03	10.07	10.32
4H	9.76	9.81	9.97	10.00	10.25	9.81	9.86	10.02	10.06	10.31
6H	9.74	9.79	9.96	9.99	10.24	9.80	9.85	10.01	10.05	10.30
8H	9.73	9.78	9.95	9.99	10.24	9.79	9.84	10.00	10.04	10.29
12H	9.72	9.77	9.94	9.98	10.23	9.78	9.83	10.00	10.03	10.29
4H 2H	9.91	9.96	10.12	10.16	10.41	10.15	10.20	10.36	10.40	10.65
3H	9.91	9.96	10.13	10.17	10.42	10.15	10.20	10.37	10.41	10.66
4H	9.90	9.95	10.12	10.16	10.42	10.13	10.18	10.36	10.39	10.65
6H	9.87	9.92	10.11	10.14	10.41	10.11	10.16	10.34	10.38	10.64
8H	9.86	9.91	10.10	10.14	10.40	10.09	10.14	10.34	10.37	10.63
12H	9.85	9.89	10.10	10.13	10.40	10.08	10.13	10.33	10.36	10.63
8H 4H	9.88	9.94	10.10	10.14	10.39	10.16	10.21	10.38	10.41	10.66
6H	9.83	9.88	10.09	10.12	10.39	10.10	10.15	10.36	10.39	10.66
8H	9.82	9.86	10.08	10.11	10.38	10.09	10.13	10.35	10.38	10.65
12H	9.80	9.84	10.07	10.10	10.38	10.07	10.11	10.34	10.36	10.65
12H 4H	9.85	9.89	10.10	10.13	10.39	10.12	10.17	10.37	10.40	10.67
6H	9.82	9.86	10.08	10.11	10.38	10.09	10.13	10.35	10.38	10.65

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

98.781
88.903
79.025
69.147
59.268

49.39
39.512
29.634
19.756
9.878

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 17:48:59

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 17:48:59

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9969.68	9843.76	9849.95	9899.83	9969.68	9843.76	9849.95	9899.83	9969.68	
G1	9961.43	9854.67	9879.02	9870.19	9940.75	9833.24	9804.49	9920.36	9961.43	
G2	9946.89	9840.74	9869.39	9804.87	9886.48	9741.53	9729.73	9905.17	9946.89	
G3	9912.53	9811.81	9863.02	9715.72	9804.68	9671.12	9664.37	9860.66	9912.53	
G4	9851.93	9751.16	9820.92	9610.52	9733.89	9578.56	9536.56	9797.18	9851.93	
G5	9772.97	9666.3	9754.42	9501.44	9575.73	9470.96	9416.82	9720.86	9772.97	
G6	9680.51	9573.28	9661.96	9352.73	9443.25	9301.42	9243.37	9656.44	9680.51	
G7	9571.44	9465.2	9567.05	9189.99	9270.89	9132.18	9084.74	9529.72	9571.44	
G8	9452.78	9319.17	9427.3	9021.12	9093.1	8929.94	8891.47	9403.98	9452.78	
G9	9282.55	9190.61	9311.81	8828.56	8892.98	8739.64	8702.59	9252.06	9282.55	
G10	9126.51	9014.32	9137.04	8618.15	8680.78	8508.61	8447.35	9089.37	9126.51	
G11	8928.19	8851.17	8948.39	8382.17	8445.18	8266.77	8193.38	8885.62	8928.19	
G12	8750.02	8634.39	8741.01	8144.49	8219.15	8015.17	7937.72	8676.82	8750.02	
G13	8528.53	8440.13	8523.48	7870.74	7938.24	7768.85	7682.48	8461.93	8528.53	
G14	8290.75	8187.77	8282.35	7618.15	7685.83	7483.73	7389.76	8230.01	8290.75	
G15	8047.59	7944.8	8038.01	7324.68	7405.1	7210.84	7115.07	7973.54	8047.59	
G16	7801.69	7691.44	7771.63	7053.01	7142.83	6923.13	6812.21	7714.71	7801.69	
G17	7521.63	7426.67	7515.21	6768.08	6848.55	6660.29	6531.01	7454.28	7521.63	
G18	7246.85	7151.6	7229.67	6471.64	6568.3	6342.23	6227.25	7169.26	7246.85	
G19	6956.3	6882.87	6946.44	6186.43	6250.29	6038.42	5931.66	6877.53	6956.3	
G20	6671.09	6595.25	6656.84	5882.81	5952.57	5737.54	5645.88	6576.18	6671.09	
G21	6372.48	6320.42	6392.44	5575.18	5635.69	5444.78	5356.99	6294.75	6372.48	
G22	6079.67	6029.45	6095.48	5274.87	5318.67	5120.3	5040.16	5998.58	6079.67	
G23	5771.05	5741.88	5799.37	4950.86	4980.31	4795.68	4720.59	5689.68	5771.05	
G24	5457.05	5430.85	5507.26	4620.34	4634.55	4457.32	4377.47	5380.92	5457.05	
G25	5128.27	5126.01	5207.09	4256.36	4260.37	4121.8	4027.26	5057.76	5128.27	
G26	4812.9	4799.17	4889.5	3891.05	3885.3	3761.97	3659.36	4731.06	4812.9	
G27	4469.64	4481.3	4565.45	3504.32	3502.81	3395.16	3295.29	4395.54	4469.64	
G28	4130.3	4132.99	4219.97	3128.49	3135.29	3033.2	2917.38	4045.48	4130.3	
G29	3773.82	3768.48	3865.19	2762.86	2774.05	2664.41	2550.14	3677.91	3773.82	
G30	3416.54	3402.99	3494.27	2410.91	2428.33	2311.75	2191.21	3314.21	3416.54	
G31	3042.55	3037.64	3111.6	2073.17	2100.26	1988.83	1871.17	2942.68	3042.55	
G32	2698.91	2674.32	2736.95	1771.72	1807.22	1687.15	1583.5	2579.92	2698.91	
G33	2349.04	2333.23	2388.82	1509.07	1552.87	1436.15	1334.92	2243.03	2349.04	
G34	2022.34	2014.98	2053.44	1284.04	1327.74	1207.58	1116.16	1929.65	2022.34	
G35	1728.12	1720.61	1747.8	1086.85	1124.51	1016.01	938.37	1643.54	1728.12	
G36	1461.03	1459.33	1478.58	924.21	942.52	859.17	791.07	1395.33	1461.03	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 17:48:59

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	1228.25	1230.0	1245.81	782.43	786.73	730.84	670.9	1178.65	1228.25	
G38	1025.59	1030.26	1049.66	667.51	662.93	623.09	572.97	1000.29	1025.59	
G39	856.01	870.07	891.5	573.02	561.83	538.47	491.84	848.08	856.01	
G40	721.74	738.82	751.89	496.89	481.97	464.84	422.6	724.05	721.74	
G41	608.7	625.17	645.56	428.69	414.06	409.39	368.61	622.48	608.7	
G42	514.54	540.31	555.74	376.87	363.89	361.43	323.82	537.53	514.54	
G43	435.01	462.67	481.88	335.24	320.56	323.58	289.88	461.3	435.01	
G44	375.64	401.5	414.2	299.23	287.05	292.76	262.89	406.32	375.64	
G45	328.11	356.05	364.78	271.62	257.88	268.74	240.56	360.11	328.11	
G46	292.53	318.25	325.38	249.95	234.0	246.89	220.79	324.67	292.53	
G47	262.98	286.11	293.33	229.8	213.28	229.57	206.25	293.05	262.98	
G48	238.86	261.47	267.46	214.7	196.67	214.6	189.87	269.16	238.86	
G49	216.96	239.62	245.09	200.82	179.82	201.72	177.93	249.91	216.96	
G50	200.63	222.11	225.41	187.42	166.04	189.87	166.65	233.15	200.63	
G51	182.98	209.08	209.13	177.22	154.48	179.44	156.36	218.0	182.98	
G52	170.19	195.87	195.63	166.27	144.42	169.25	147.73	207.71	170.19	
G53	158.16	184.73	183.69	156.5	134.61	161.08	141.02	192.94	158.16	
G54	148.06	173.5	172.32	148.67	126.2	151.5	133.28	183.6	148.06	
G55	138.43	165.57	163.21	139.42	118.04	143.62	126.3	174.06	138.43	
G56	131.07	155.8	153.96	132.06	109.92	135.79	120.02	165.24	131.07	
G57	122.19	148.34	146.78	123.7	100.95	129.04	114.83	156.79	122.19	
G58	115.4	140.17	139.23	116.58	93.12	120.02	107.89	149.19	115.4	
G59	107.42	133.8	133.66	108.03	85.52	112.38	102.51	141.83	107.42	
G60	101.66	125.69	126.82	101.38	78.3	104.45	96.75	133.85	101.66	
G61	93.12	117.47	121.67	93.83	69.57	96.9	91.18	126.87	93.12	
G62	85.47	110.58	115.21	86.18	60.13	89.91	85.52	120.59	85.47	
G63	77.26	104.59	109.45	77.97	50.17	81.65	78.06	111.81	77.26	
G64	69.8	95.76	102.7	70.46	43.42	73.96	71.88	104.16	69.8	
G65	59.94	88.45	96.38	62.91	36.25	68.01	67.49	97.13	59.94	
G66	50.17	81.04	90.33	55.93	31.48	58.48	61.4	89.49	50.17	
G67	40.35	73.86	82.08	47.43	25.77	50.41	56.68	81.79	40.35	
G68	33.27	65.27	76.32	39.93	21.8	42.57	50.74	74.76	33.27	
G69	28.37	57.86	70.23	32.28	15.86	36.72	47.34	66.41	28.37	
G70	23.27	49.84	64.47	25.72	12.88	28.7	41.16	59.18	23.27	
G71	18.12	41.53	59.04	19.49	9.49	22.56	37.29	49.56	18.12	
G72	14.82	33.04	54.28	13.78	5.81	17.56	31.72	42.57	14.82	
G73	10.9	25.53	48.8	10.01	2.69	14.54	26.15	34.78	10.9	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/7/16 17:48:59

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: