

Report No.:

Test Time: 2025/2/7 16:03:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H96-15°-25W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 220.70 V
Current(A): 0.1130 A
Power(W): 24.45 W
Power Factor: 0.9780
Lamp Luminous Flux: 2130.68

Photometric Results

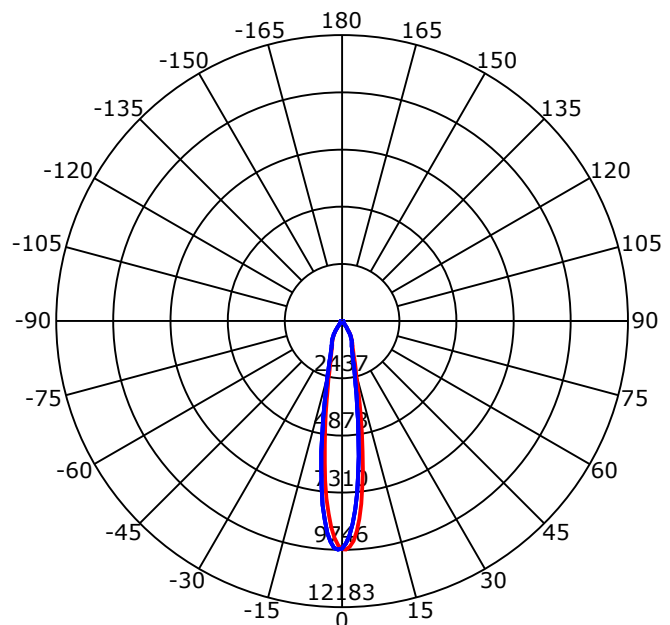
CIE Class: Direct
Luminaire Luminous Flux: 2130.676 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 87.15 lm/W
Beam Angle(50%) C0-180,C90-270: 18.7,18.3
Field Angle(10%) C0-180,C90-270: 51.4,51.1
S/MH C0-180,C90-270: 0.353,0.317

Max. Intensity: 9746.30 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9713.22 cd
Effective Luminous Flux: 1546.53 lm
ERP(ϕ use)(120deg): 2094.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 18.7 deg,18.3 deg

C0-180 — C90-270 —

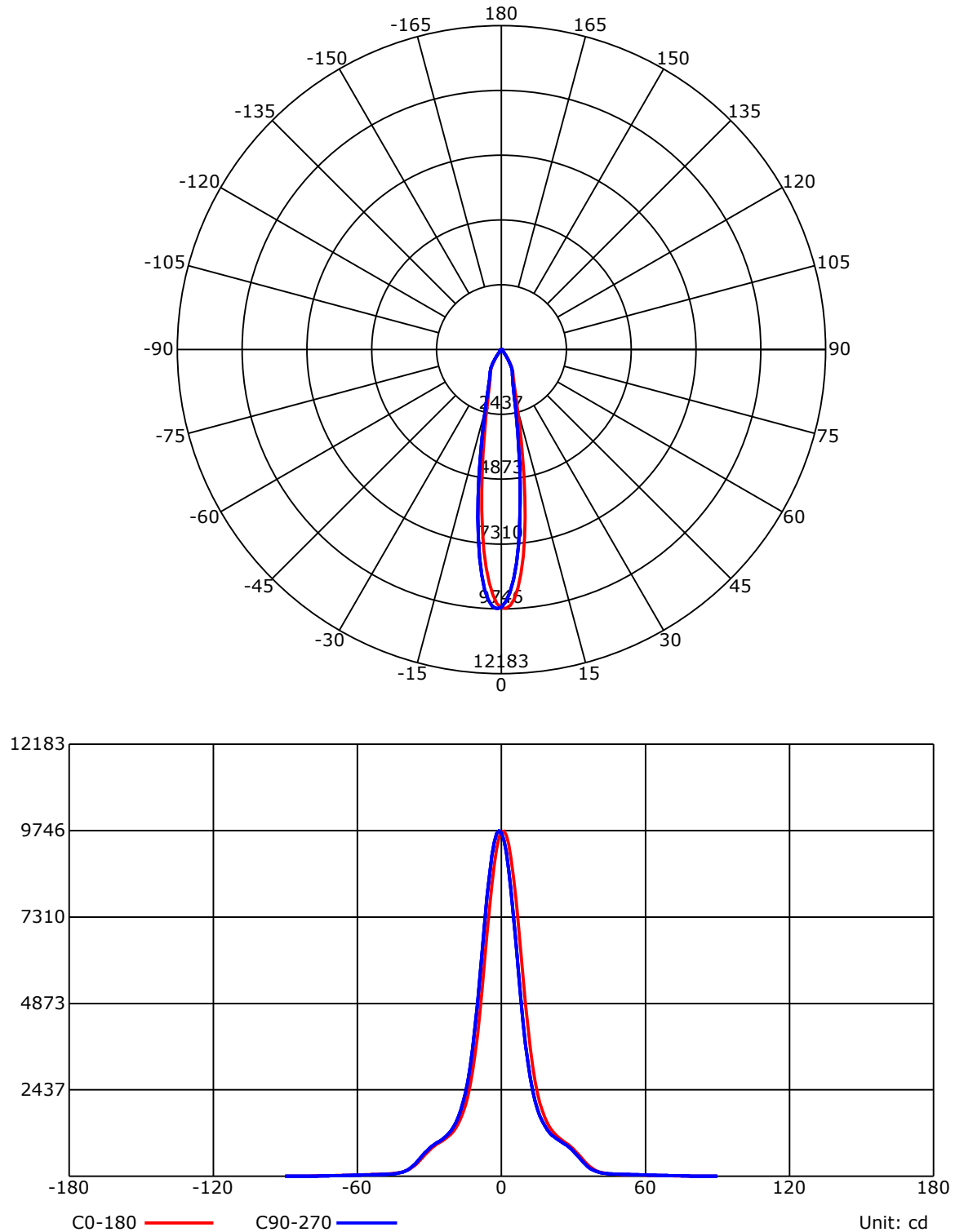
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/2/7 16:03:35

Luminous Intensity Distribution Curve



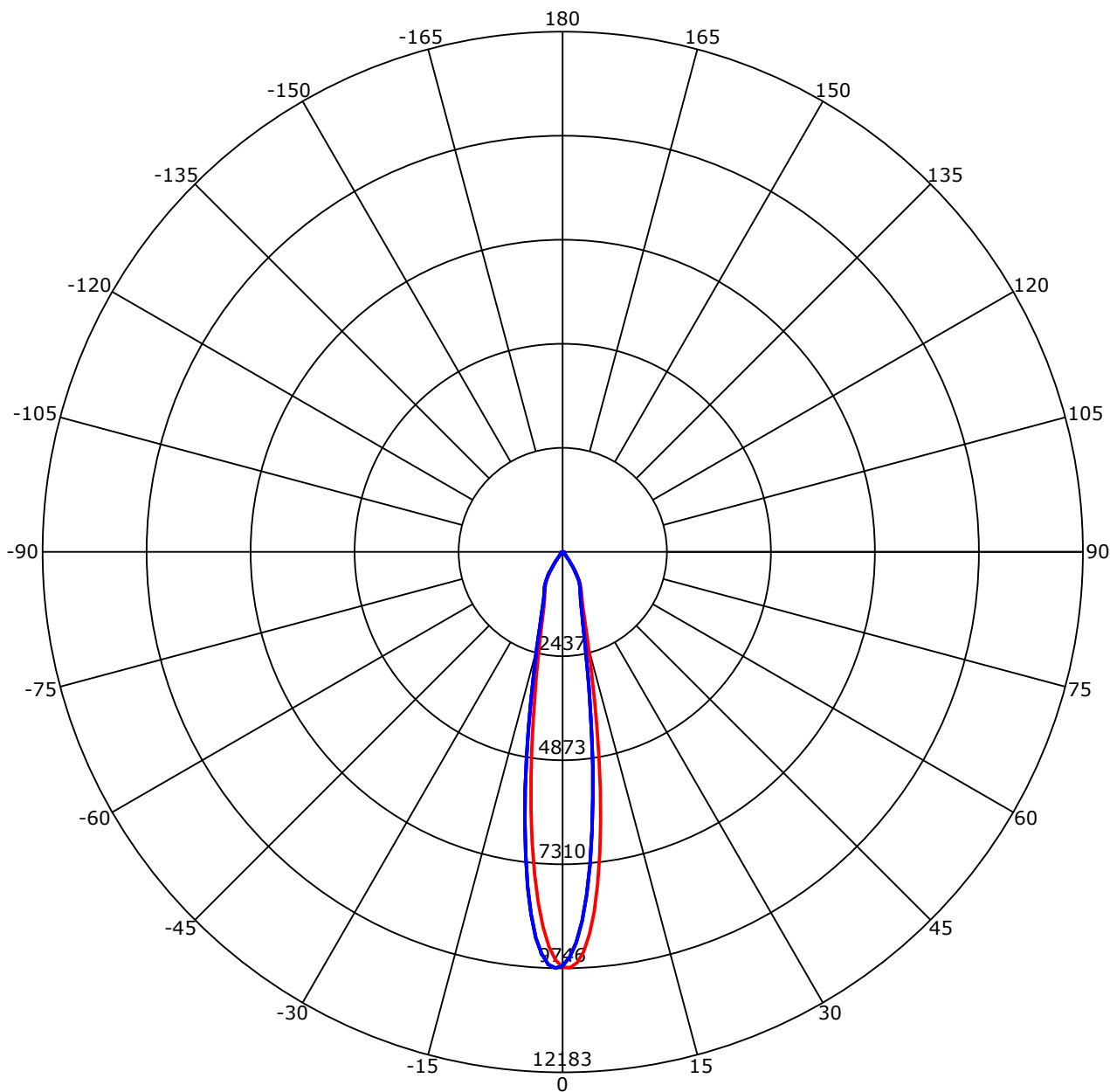
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks:

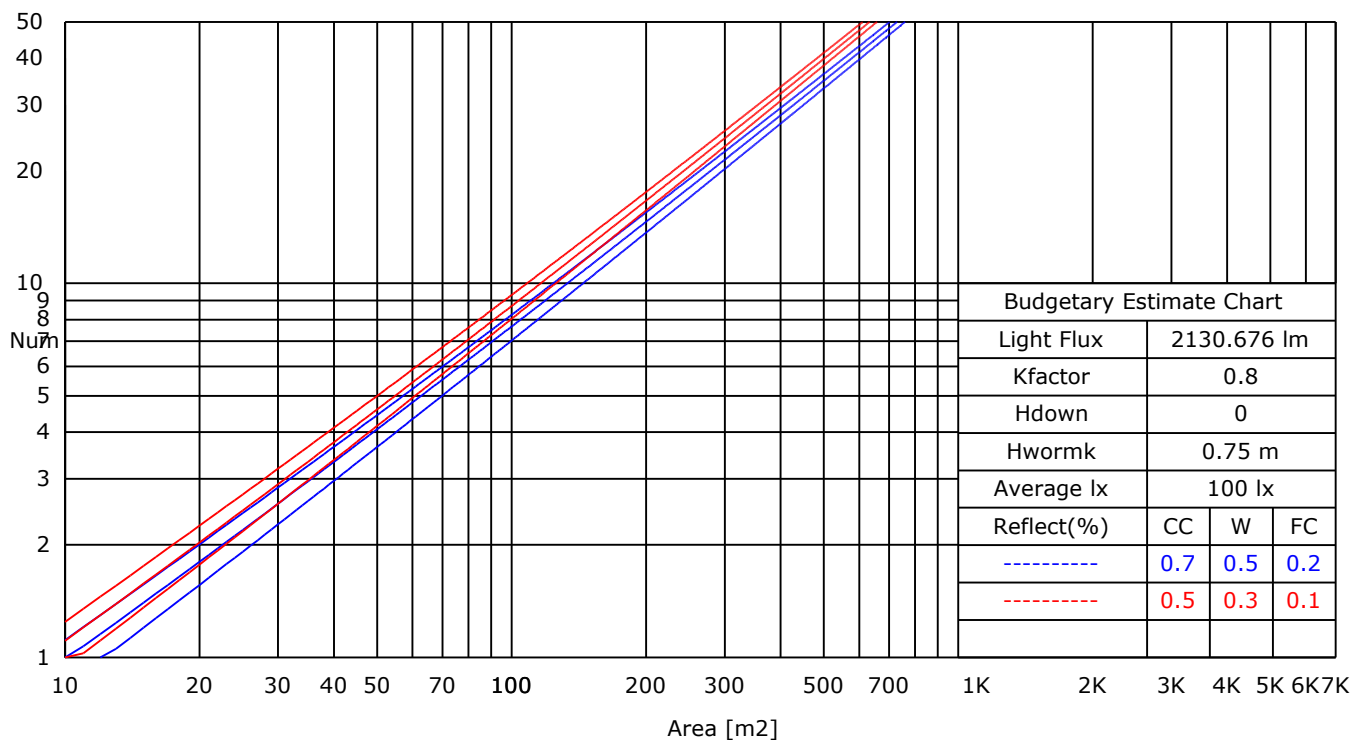
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UTILIZATION FACTORS TABLE

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	0.88	0.85	0.82	0.88	0.84	0.81	0.85	0.81	0.78	0.82	0.78	0.74	0.77	0.73	0.69	0.63
2	0.84	0.81	0.79	0.83	0.80	0.77	0.82	0.77	0.74	0.79	0.74	0.70	0.74	0.70	0.66	0.61
3	0.80	0.77	0.76	0.80	0.76	0.74	0.78	0.74	0.71	0.76	0.71	0.67	0.72	0.67	0.63	0.59
4	0.77	0.74	0.73	0.77	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.74	0.72	0.70	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.66	0.63	0.68	0.63	0.59	0.55
6	0.71	0.69	0.68	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.53
7	0.69	0.67	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
8	0.67	0.66	0.64	0.67	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.51
9	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.61	0.58	0.63	0.59	0.56	0.61	0.56	0.52	0.49
10	0.64	0.62	0.61	0.63	0.61	0.60	0.62	0.59	0.57	0.61	0.57	0.54	0.60	0.55	0.51	0.48

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



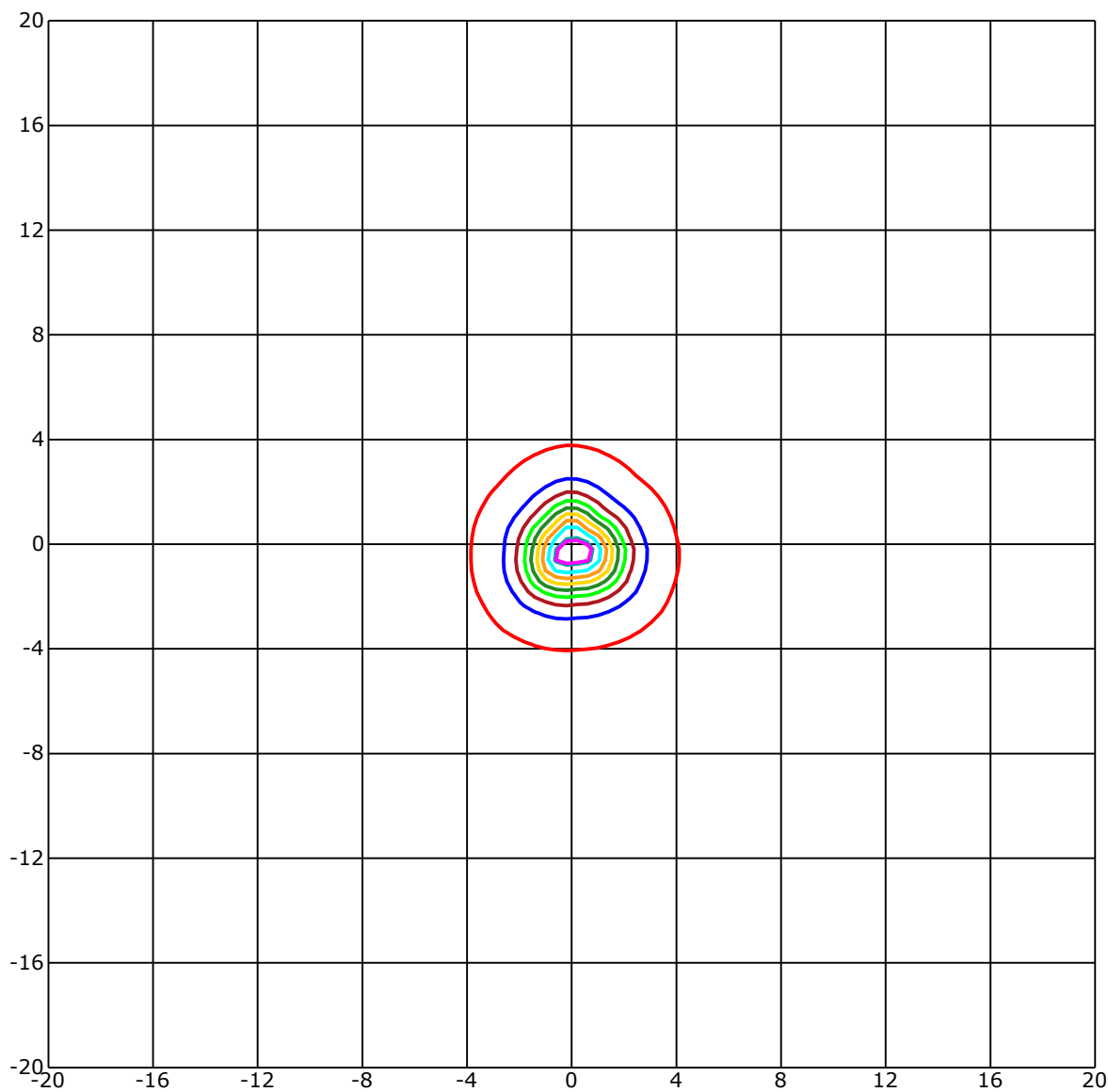
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks:

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ISOLX DIAGRAM



89.557(92%Emax)	48.672(50%Emax)
87.61(90%Emax)	38.938(40%Emax)
77.876(80%Emax)	29.203(30%Emax)
68.141(70%Emax)	19.469(20%Emax)
58.407(60%Emax)	9.734(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

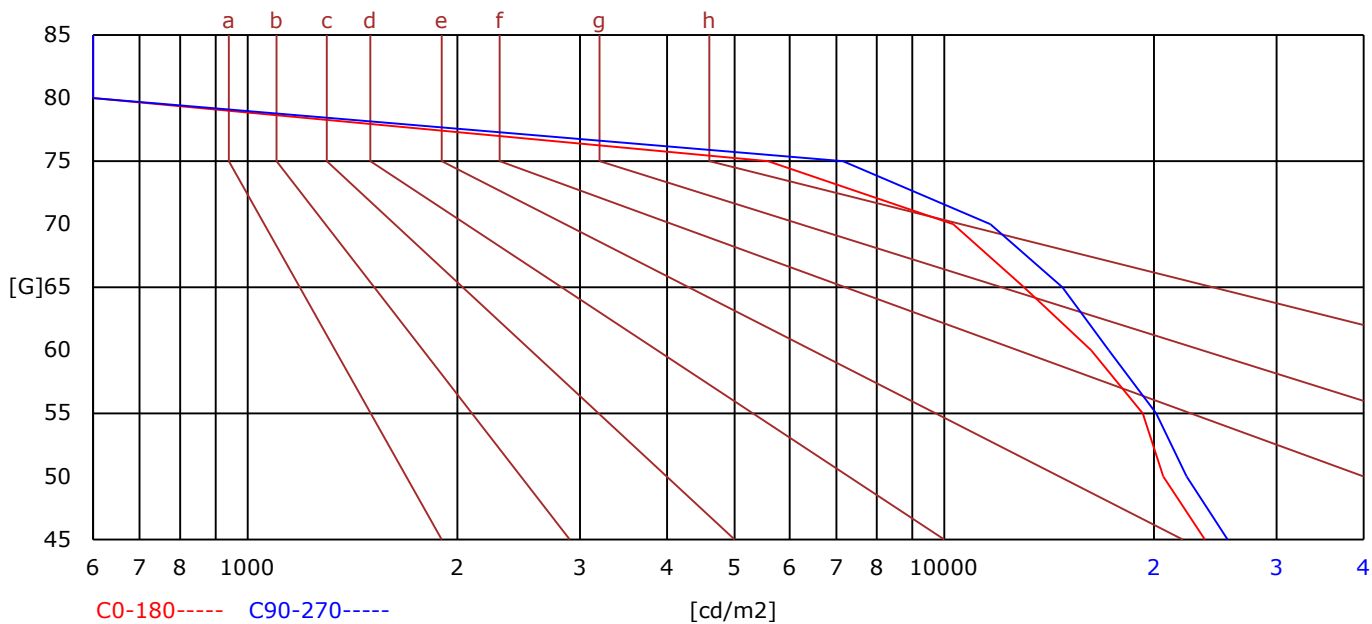
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 1
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	23671	20626	19275	16247	13014	10296	5583	0	0
C90	25496	22285	20155	17229	14773	11650	7155	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



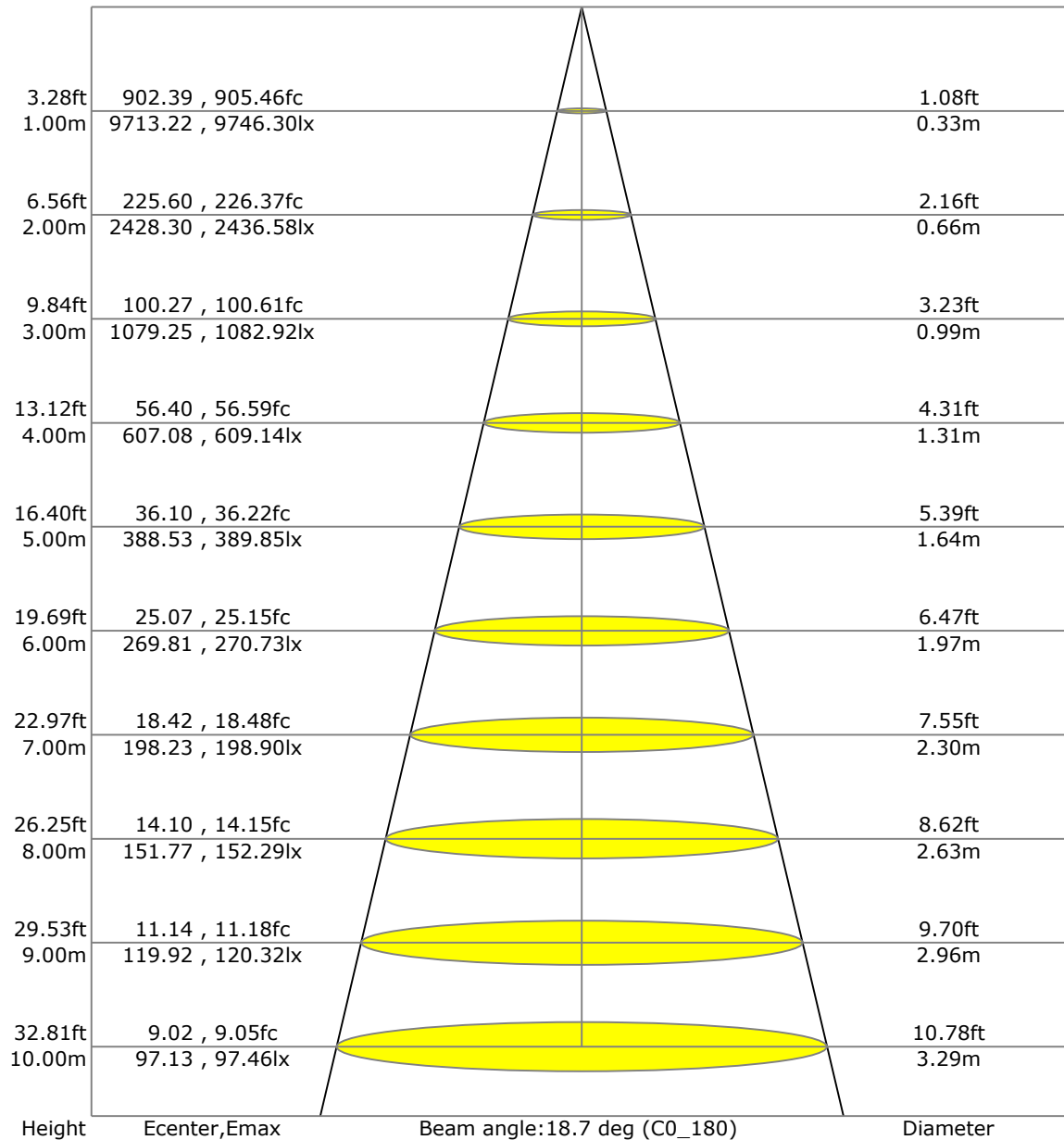
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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	11.48	11.54	11.68	11.73	11.97	11.59	11.65	11.79	11.84	12.08
3H	11.51	11.57	11.71	11.76	12.01	11.61	11.67	11.81	11.86	12.11
4H	11.50	11.56	11.71	11.76	12.01	11.60	11.66	11.81	11.86	12.11
6H	11.48	11.55	11.70	11.75	12.00	11.58	11.64	11.80	11.85	12.10
8H	11.47	11.54	11.69	11.74	12.00	11.57	11.64	11.79	11.84	12.09
12H	11.46	11.53	11.69	11.74	11.99	11.56	11.63	11.78	11.83	12.09
4H 2H	12.15	12.21	12.36	12.41	12.66	12.43	12.49	12.64	12.69	12.94
3H	12.21	12.28	12.43	12.48	12.74	12.48	12.55	12.70	12.75	13.01
4H	12.20	12.27	12.43	12.48	12.74	12.47	12.53	12.70	12.75	13.01
6H	12.18	12.24	12.42	12.47	12.73	12.45	12.51	12.69	12.73	13.00
8H	12.17	12.23	12.41	12.46	12.72	12.43	12.50	12.68	12.72	12.99
12H	12.15	12.22	12.40	12.45	12.72	12.42	12.48	12.67	12.71	12.98
8H 4H	12.16	12.23	12.38	12.43	12.68	12.49	12.55	12.71	12.76	13.01
6H	12.18	12.24	12.44	12.48	12.76	12.50	12.56	12.76	12.80	13.07
8H	12.17	12.23	12.43	12.47	12.75	12.48	12.54	12.75	12.79	13.07
12H	12.15	12.21	12.42	12.46	12.74	12.47	12.52	12.74	12.78	13.06
12H 4H	12.20	12.26	12.45	12.49	12.76	12.51	12.58	12.76	12.81	13.08
6H	12.17	12.23	12.43	12.47	12.75	12.48	12.54	12.75	12.79	13.07

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G Interval: 1.0 Deg
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Humidity: 1
Test Distance: 6.87 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

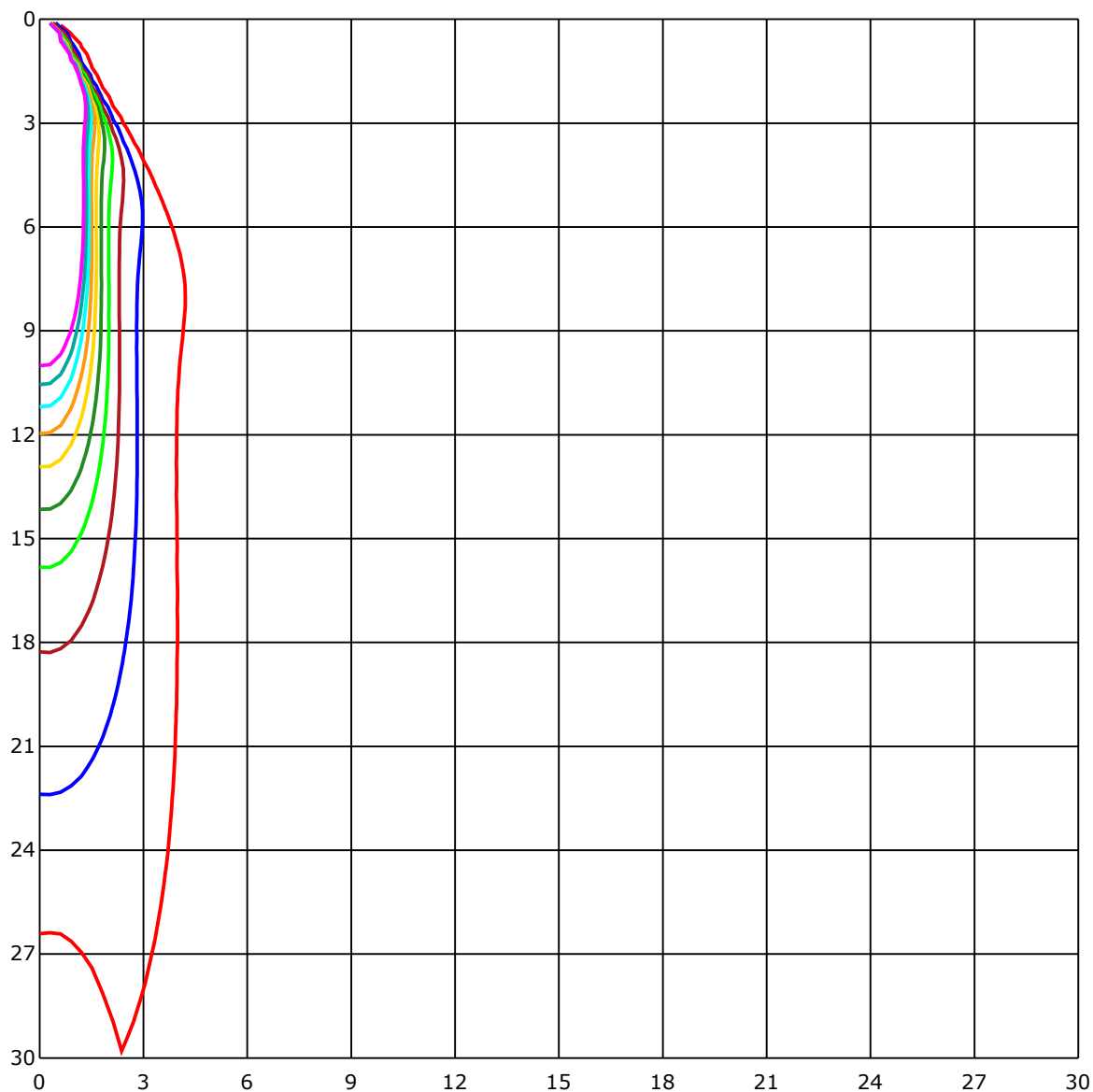
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

96.964	48.482
87.268	38.786
77.571	29.089
67.875	19.393
58.179	9.696

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
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Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9713.22	9472.14	9687.97	9449.81	9713.22	9472.14	9687.97	9449.81	9713.22	
G1	9734.31	9131.75	9477.0	9013.52	9557.61	9692.26	9738.94	9649.03	9734.31	
G2	9620.57	8637.65	9139.26	8509.03	9237.61	9729.92	9663.8	9746.3	9620.57	
G3	9374.53	8044.81	8643.31	7867.87	8787.35	9679.52	9419.75	9707.51	9374.53	
G4	8968.12	7346.86	8046.51	7178.22	8231.52	9444.76	9053.59	9511.02	8968.12	
G5	8454.71	6597.47	7354.41	6406.04	7578.69	9102.54	8506.63	9168.9	8454.71	
G6	7823.17	5823.06	6577.03	5659.48	6837.51	8595.12	7885.52	8685.27	7823.17	
G7	7115.92	5069.51	5802.01	4911.03	6083.3	7974.1	7141.13	8074.82	7115.92	
G8	6369.65	4362.27	5045.21	4241.21	5322.82	7260.11	6380.46	7398.3	6369.65	
G9	5624.79	3744.46	4340.37	3649.36	4620.2	6512.89	5627.33	6650.85	5624.79	
G10	4874.92	3203.07	3729.55	3144.97	3982.85	5718.85	4883.18	5906.27	4874.92	
G11	4208.45	2760.97	3199.43	2721.7	3430.22	4963.04	4200.57	5158.24	4208.45	
G12	3604.47	2398.5	2766.64	2384.34	2964.96	4276.28	3606.5	4463.18	3604.47	
G13	3105.89	2109.37	2408.79	2096.68	2583.09	3658.85	3102.82	3833.1	3105.89	
G14	2682.34	1865.93	2122.92	1866.92	2264.08	3145.34	2692.25	3309.73	2682.34	
G15	2350.69	1679.17	1894.15	1677.47	2006.58	2722.98	2356.78	2865.23	2350.69	
G16	2071.33	1524.74	1705.41	1527.62	1793.34	2374.43	2077.18	2507.67	2071.33	
G17	1850.5	1400.38	1548.63	1396.7	1623.57	2099.41	1853.19	2210.99	1850.5	
G18	1666.05	1295.32	1428.37	1298.48	1480.52	1870.89	1666.95	1965.28	1666.05	
G19	1516.2	1213.2	1317.22	1211.54	1365.12	1680.07	1511.67	1764.17	1516.2	
G20	1395.61	1138.53	1232.74	1146.41	1268.89	1527.76	1392.17	1601.34	1395.61	
G21	1296.64	1083.5	1160.19	1086.33	1198.66	1407.51	1289.51	1465.84	1296.64	
G22	1211.92	1032.29	1105.73	1037.81	1131.69	1301.22	1204.56	1357.29	1211.92	
G23	1144.57	990.38	1055.13	992.08	1075.67	1219.19	1132.73	1268.18	1144.57	
G24	1086.9	945.17	1009.07	952.95	1029.13	1152.5	1076.47	1189.69	1086.9	
G25	1035.08	900.04	967.87	907.83	984.2	1095.44	1026.34	1126.73	1035.08	
G26	981.46	850.3	926.24	864.88	941.3	1047.39	984.39	1075.19	981.46	
G27	933.51	797.49	879.61	816.6	899.01	1006.85	941.48	1026.01	933.51	
G28	883.76	736.79	829.86	760.48	851.43	964.19	895.84	980.09	883.76	
G29	829.58	665.52	770.96	692.43	797.16	923.5	849.78	929.83	829.58	
G30	765.49	589.77	702.48	622.67	733.82	879.47	791.3	879.04	765.49	
G31	695.49	514.12	627.06	547.86	662.08	829.2	723.15	815.61	695.49	
G32	620.17	435.16	552.49	475.51	590.01	767.04	654.57	748.31	620.17	
G33	544.98	366.15	474.42	400.98	518.03	696.63	577.45	670.57	544.98	
G34	464.7	299.7	398.72	333.3	443.27	620.59	500.95	593.5	464.7	
G35	394.66	243.21	330.71	273.65	373.42	544.98	420.15	513.83	394.66	
G36	326.79	192.85	270.34	221.12	310.32	464.94	349.49	434.31	326.79	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.7

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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	266.66	155.89	217.96	178.12	256.7	394.85	283.51	363.37	266.66	
G38	215.17	126.96	178.12	145.84	210.12	325.38	228.1	299.18	215.17	
G39	173.68	107.61	146.78	122.62	175.29	265.34	181.9	244.39	173.68	
G40	142.25	92.18	124.74	104.97	147.44	216.16	146.97	198.84	142.25	
G41	120.87	80.9	106.62	90.29	130.17	176.85	122.19	164.58	120.87	
G42	102.79	70.7	93.78	80.19	111.72	147.49	103.6	139.09	102.79	
G43	88.49	64.23	83.07	70.7	98.83	126.63	88.16	120.73	88.49	
G44	77.64	59.04	76.27	66.88	88.68	110.68	77.87	103.83	77.64	
G45	70.09	56.31	70.18	60.65	80.85	97.08	69.05	91.51	70.09	
G46	62.68	52.2	67.16	57.01	74.52	87.6	64.23	82.64	62.68	
G47	58.34	50.08	63.67	53.71	70.04	79.67	59.85	75.66	58.34	
G48	54.98	47.81	60.32	52.58	66.55	73.63	56.49	70.61	54.98	
G49	52.77	46.77	57.91	50.12	63.72	69.29	53.57	65.98	52.77	
G50	50.41	44.6	55.79	48.19	60.55	65.32	51.54	63.01	50.41	
G51	48.9	42.57	53.43	45.78	58.57	62.25	49.13	60.08	48.9	
G52	46.16	41.72	52.06	45.78	55.22	59.7	48.42	58.81	46.16	
G53	44.88	40.97	50.17	43.04	53.85	57.49	45.5	54.84	44.88	
G54	43.14	38.47	49.6	41.34	51.07	54.8	44.93	53.0	43.14	
G55	41.86	37.19	47.06	38.89	48.57	53.52	42.38	51.21	41.86	
G56	39.13	34.36	44.74	38.65	46.54	51.16	41.3	49.46	39.13	
G57	38.14	32.61	42.71	34.83	45.12	49.23	39.65	47.34	38.14	
G58	35.92	30.68	40.87	33.6	42.34	46.96	36.53	45.36	35.92	
G59	34.93	28.84	38.04	30.63	40.49	45.07	34.08	42.81	34.93	
G60	31.48	27.33	36.67	28.98	38.94	42.34	32.19	42.34	31.48	
G61	29.83	26.05	33.7	26.43	36.62	39.98	30.21	38.61	29.83	
G62	27.56	23.27	31.81	25.3	34.36	37.57	28.08	36.58	27.56	
G63	26.95	22.75	29.59	23.32	31.76	35.4	25.53	34.55	26.95	
G64	23.83	20.53	28.03	22.56	30.49	33.51	24.26	32.28	23.83	
G65	22.32	18.5	26.34	21.0	27.66	30.77	22.32	29.73	22.32	
G66	21.38	17.18	24.68	18.41	26.15	28.37	21.05	27.61	21.38	
G67	20.11	16.33	22.84	16.85	24.21	26.86	18.41	25.86	20.11	
G68	17.65	14.87	21.47	16.57	22.18	24.59	17.65	24.21	17.65	
G69	16.61	14.63	20.44	15.01	22.7	23.32	15.57	22.84	16.61	
G70	15.15	11.85	18.97	13.4	19.59	21.71	14.77	21.43	15.15	
G71	13.59	11.19	17.84	11.94	18.83	20.39	13.45	19.49	13.59	
G72	12.65	9.63	16.94	10.81	16.9	18.88	11.99	19.26	12.65	
G73	11.75	8.68	14.63	9.16	15.48	17.65	10.9	17.37	11.75	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.7
Operators: QC01
Test Date: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks:

Test Time: 2025/2/7 16:03:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.87 m
Remarks: