

Report No.:

Test Time: 2025/4/17 16:50:34

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP138CT095H104-38°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 95 mm

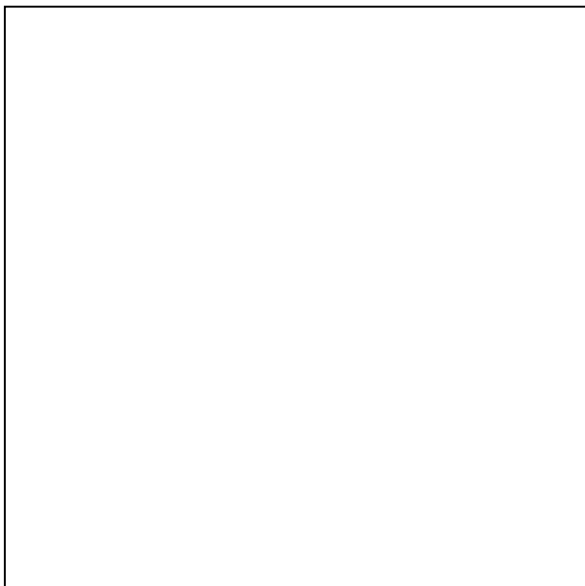
Voltage(V): 219.90 V
Current(A): 0.0500 A
Power(W): 10.05 W
Power Factor: 0.9090
Lamp Luminous Flux: 848.86

Photometric Results

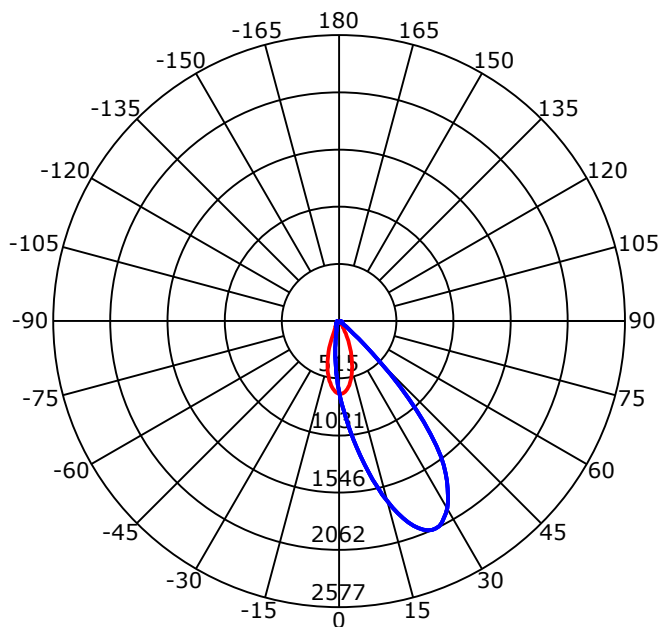
CIE Class: Direct
Luminaire Luminous Flux: 848.8558 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 84.46 lm/W
Beam Angle(50%) C0-180,C90-270: 37.5,34.9
Field Angle(10%) C0-180,C90-270: 63.5,57.5
S/MH C0-180,C90-270: 0.611,1.620

Max. Intensity: 2061.75 cd
Max.Intensity Angle: C=90 Gamma=24
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 654.39 cd
Effective Luminous Flux: 710.84 lm
ERP(ϕ use)(120deg): 824.56 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.5 deg,34.9 deg

C0-180 — C90-270

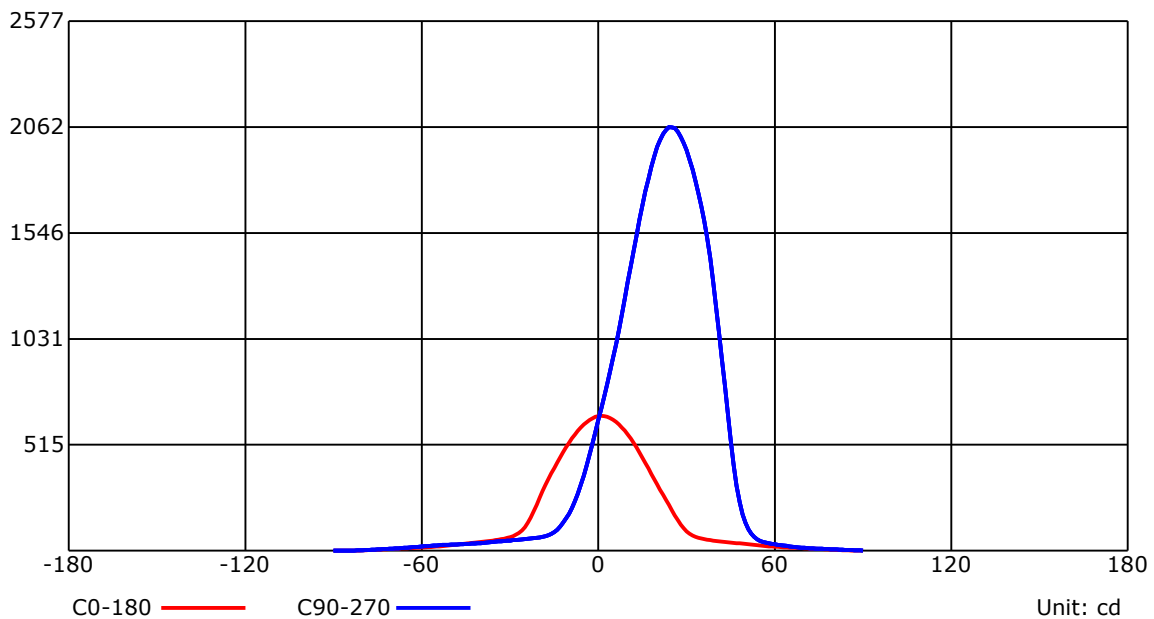
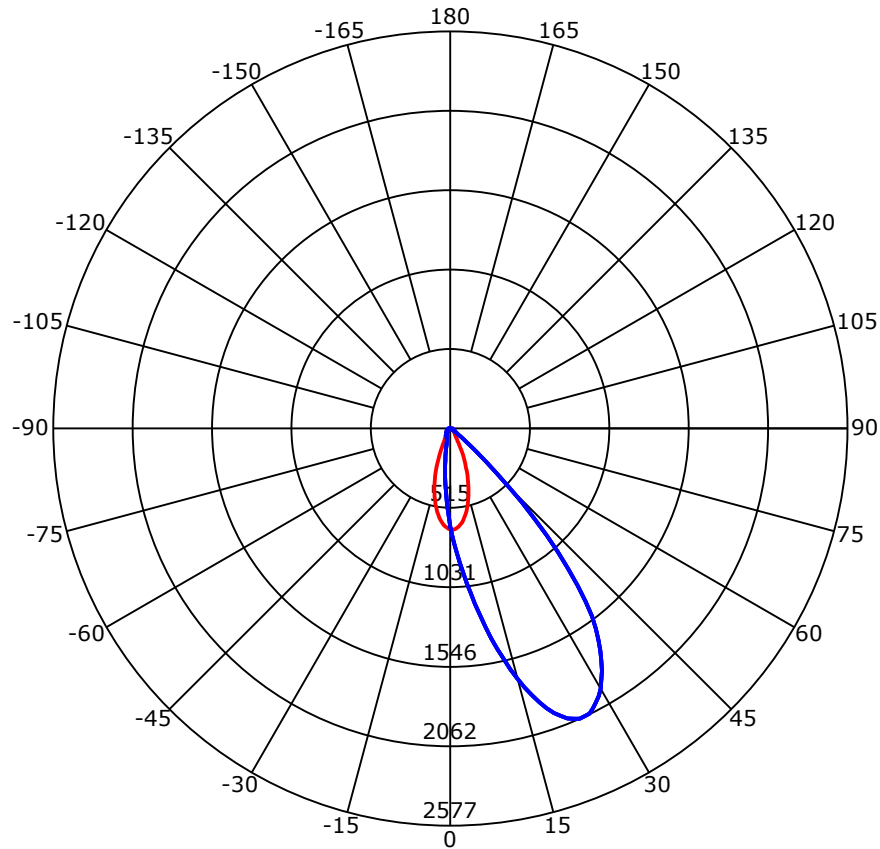
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:50:34

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



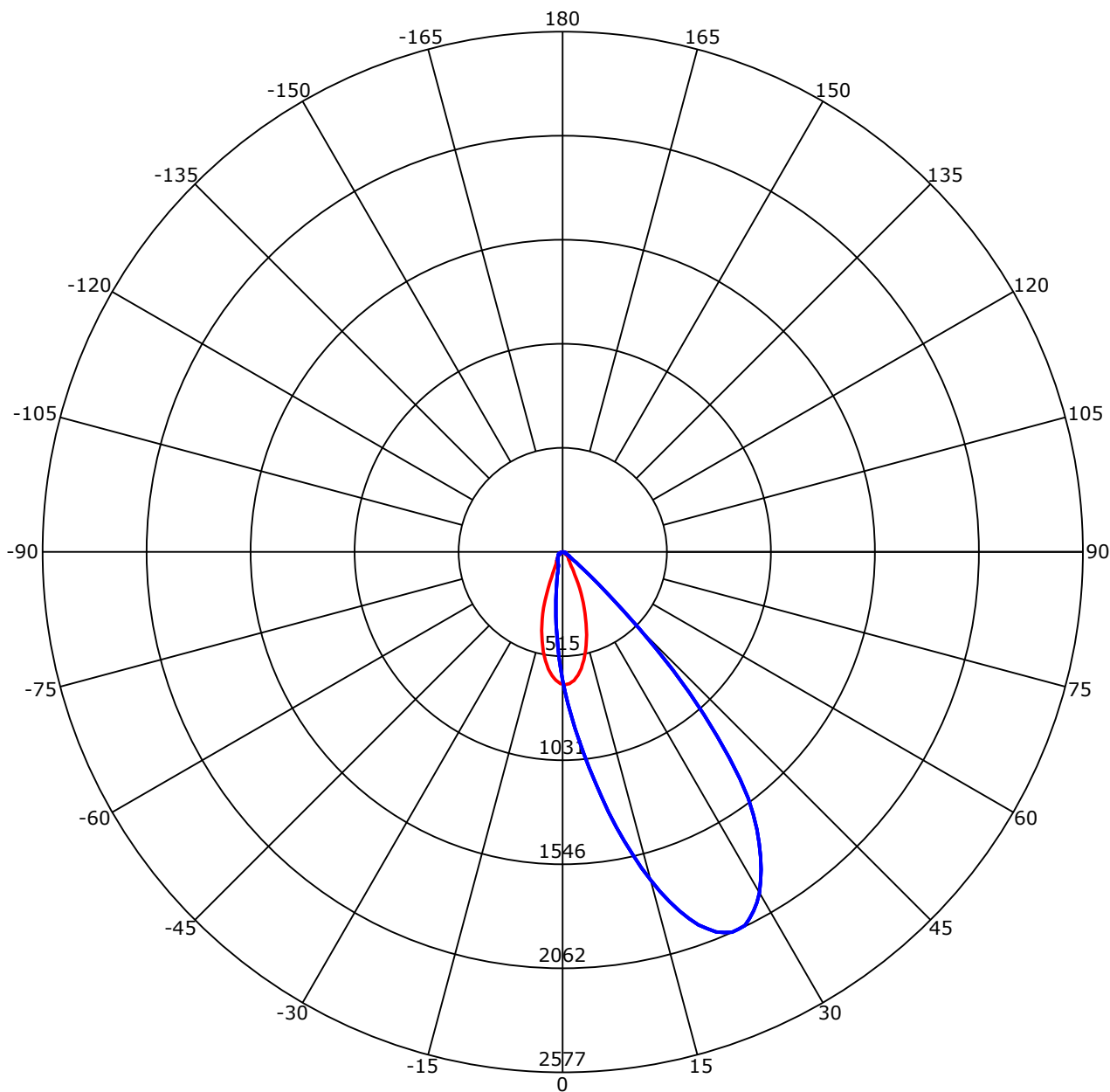
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:50:34

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 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: 2025/4/17 16:50:34

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

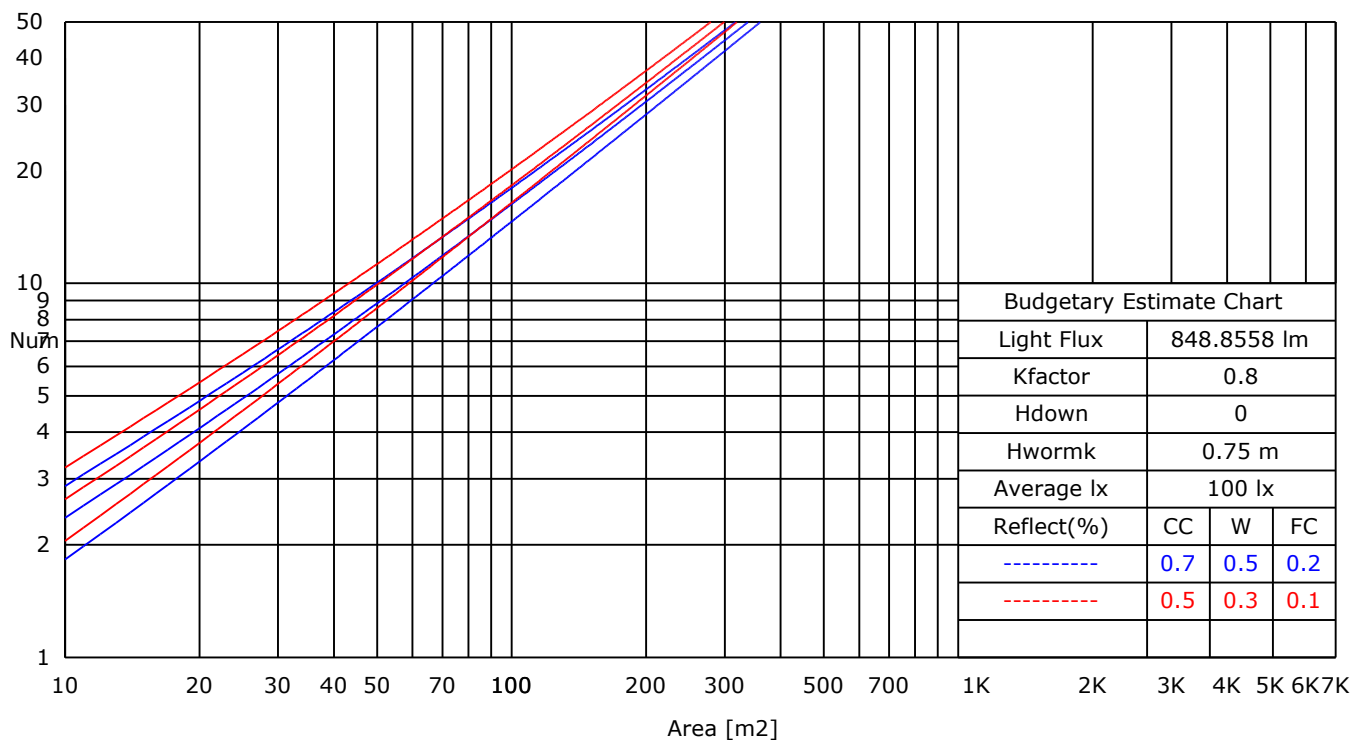
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UTILIZATION FACTORS TABLE

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	1.08	1.07	1.06	1.07	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.91	0.89	0.87	0.82
2	1.02	1.00	0.99	1.01	0.99	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.85	0.82	0.78
3	0.96	0.95	0.94	0.95	0.93	0.92	0.92	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.73
4	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.78	0.80	0.77	0.74	0.70
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
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	0.75	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
9	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55
10	0.69	0.68	0.67	0.69	0.67	0.66	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



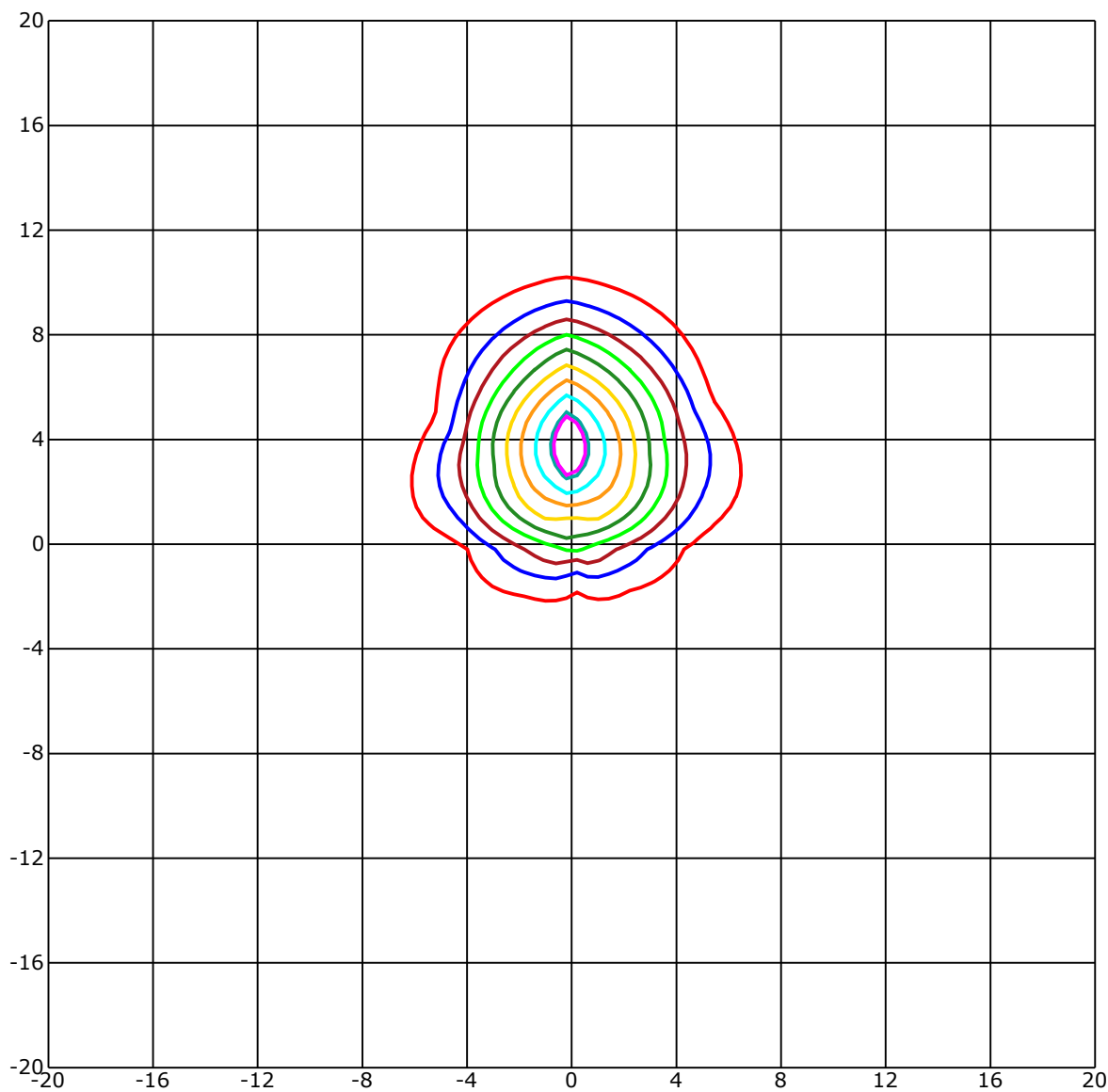
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:50:34

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



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

15.0(92%Emax)	8.152(50%Emax)
14.674(90%Emax)	6.522(40%Emax)
13.043(80%Emax)	4.891(30%Emax)
11.413(70%Emax)	3.261(20%Emax)
9.782(60%Emax)	1.63(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:50:34

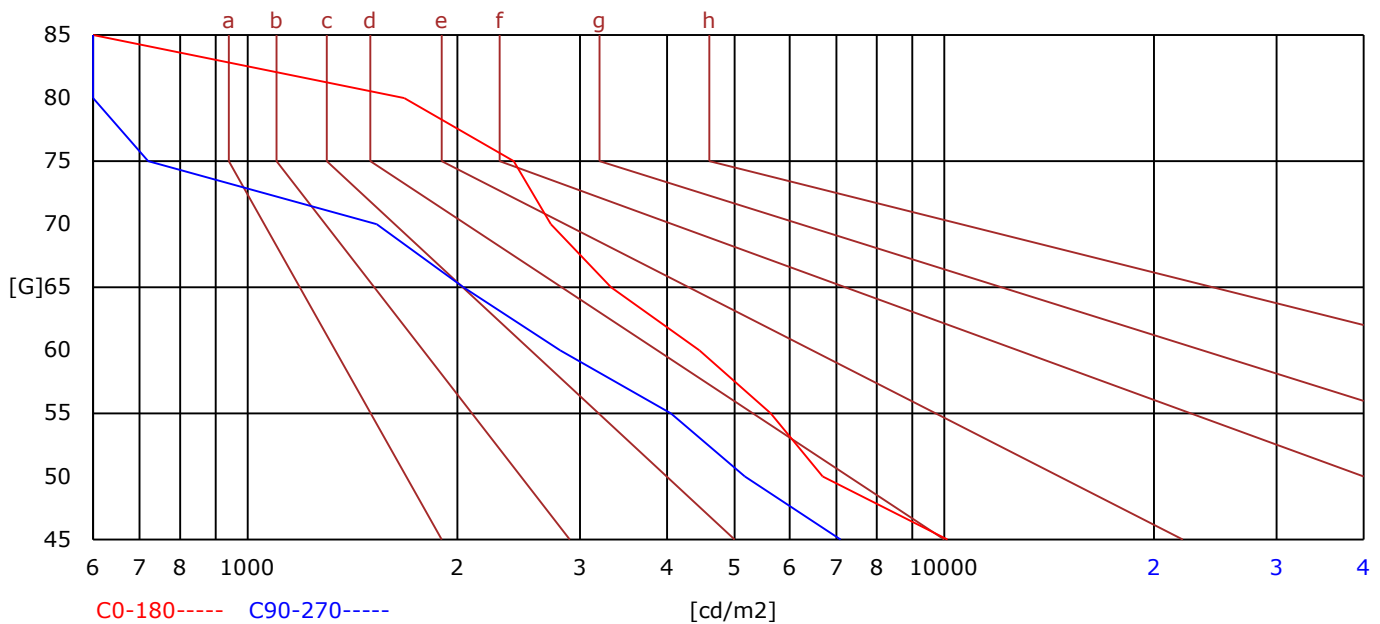
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10103	6690	5638	4452	3323	2726	2409	1678	0
C90	7095	5176	4053	2809	2041	1533	720	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



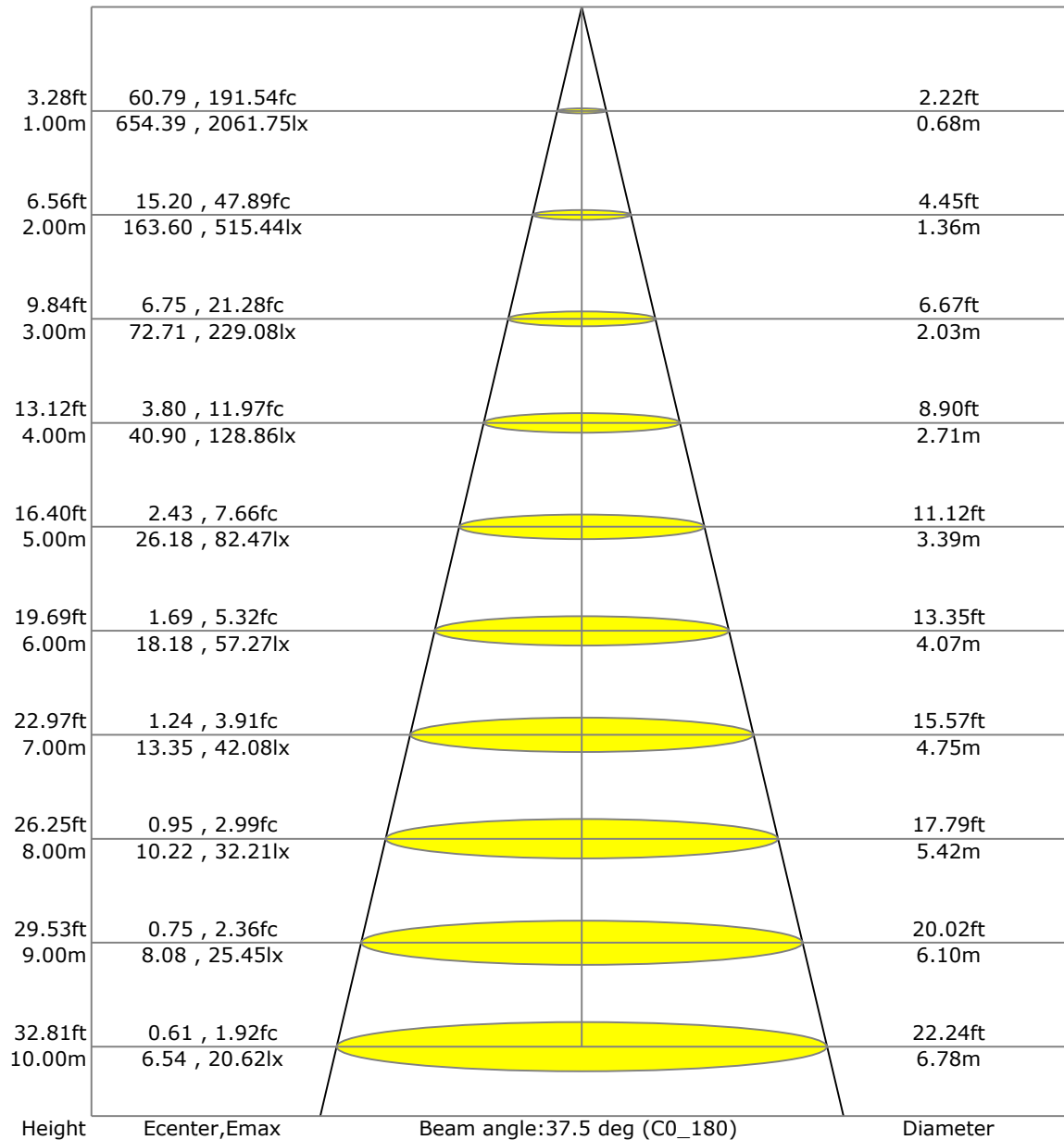
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:50:34

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: 2025/4/17 16:50:34

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	18.21	18.26	18.41	18.45	18.69	18.81	18.86	19.01	19.05	19.29
3H	18.18	18.24	18.39	18.43	18.68	18.78	18.83	18.99	19.03	19.27
4H	18.17	18.22	18.38	18.42	18.67	18.76	18.82	18.97	19.01	19.26
6H	18.15	18.20	18.36	18.40	18.65	18.74	18.80	18.96	19.00	19.25
8H	18.14	18.19	18.36	18.39	18.65	18.73	18.79	18.95	18.99	19.24
12H	18.13	18.18	18.35	18.38	18.64	18.72	18.77	18.94	18.98	19.23
4H 2H	18.29	18.34	18.50	18.54	18.79	18.91	18.96	19.12	19.15	19.40
3H	18.27	18.32	18.49	18.53	18.78	18.88	18.93	19.10	19.14	19.39
4H	18.25	18.30	18.48	18.51	18.77	18.86	18.91	19.09	19.13	19.38
6H	18.23	18.28	18.46	18.50	18.76	18.84	18.89	19.08	19.11	19.37
8H	18.21	18.26	18.46	18.49	18.75	18.82	18.87	19.07	19.10	19.36
12H	18.20	18.24	18.45	18.48	18.74	18.81	18.85	19.06	19.09	19.35
8H 4H	18.30	18.35	18.52	18.55	18.80	18.93	18.98	19.15	19.19	19.44
6H	18.24	18.28	18.49	18.52	18.79	18.87	18.91	19.12	19.15	19.42
8H	18.22	18.26	18.48	18.51	18.78	18.85	18.90	19.12	19.14	19.42
12H	18.20	18.24	18.47	18.50	18.78	18.84	18.87	19.11	19.13	19.41
12H 4H	18.26	18.30	18.50	18.53	18.80	18.91	18.95	19.15	19.18	19.45
6H	18.23	18.27	18.49	18.51	18.79	18.88	18.92	19.14	19.17	19.44

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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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ZONAL LUMINOUS FLUX TABLE

[illegible]

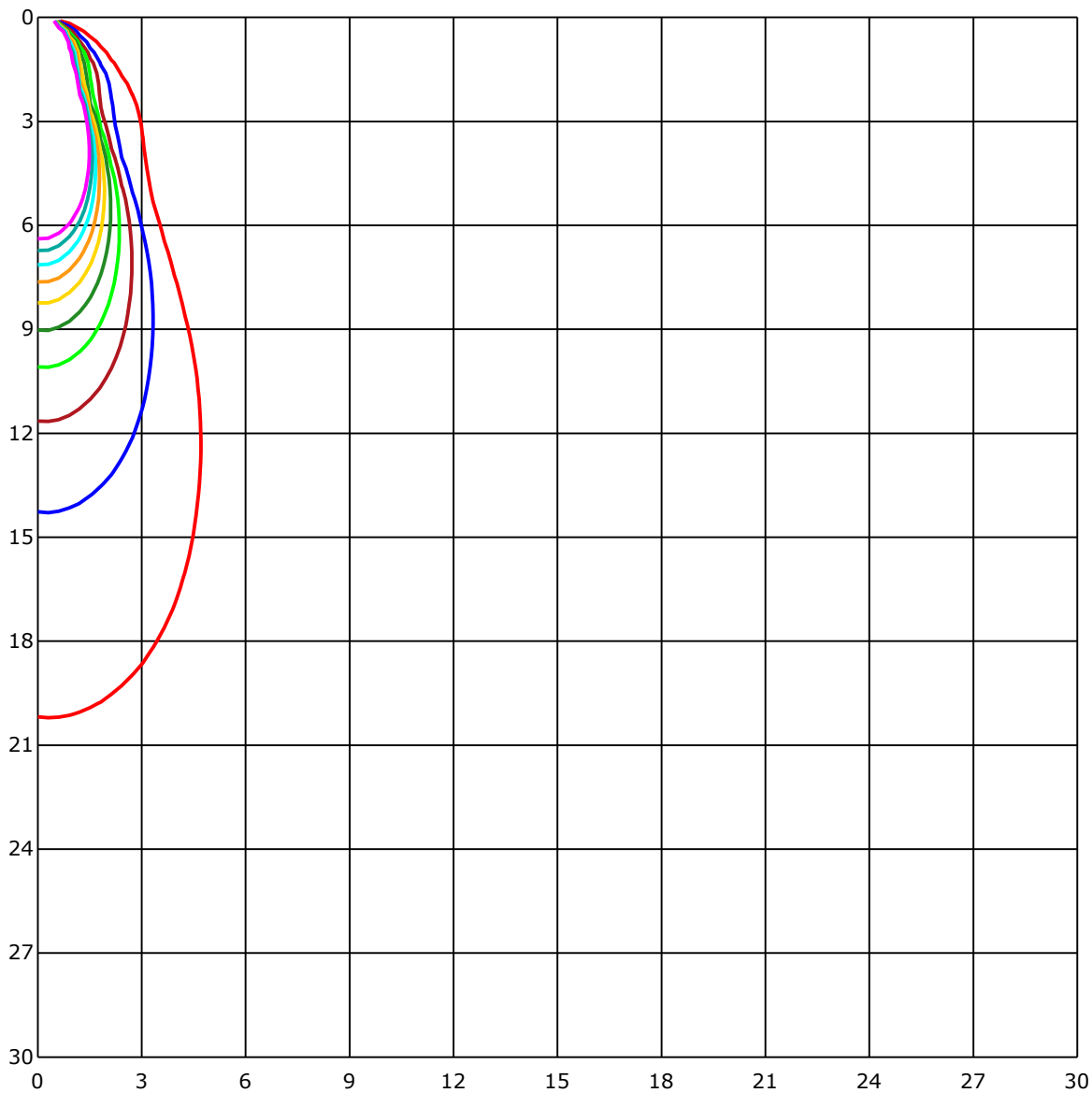
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:50:34

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	654.39	724.24	634.52	748.07	654.39	724.24	634.52	748.07	654.39	
G1	657.03	763.17	693.7	782.67	651.55	685.3	577.17	710.74	657.03	
G2	655.47	800.51	752.18	816.84	644.14	641.12	521.24	671.71	655.47	
G3	652.5	837.65	810.61	849.36	636.54	599.59	467.2	631.35	652.5	
G4	645.61	874.51	873.57	883.95	625.78	556.64	415.62	591.9	645.61	
G5	638.39	910.71	936.58	913.02	613.89	513.97	365.54	549.75	638.39	
G6	626.59	944.55	1005.34	944.93	598.83	470.69	319.05	507.41	626.59	
G7	614.31	979.9	1076.18	969.52	583.87	428.93	275.91	466.54	614.31	
G8	599.45	1007.42	1149.62	994.67	564.85	387.96	240.23	425.95	599.45	
G9	584.68	1036.21	1226.03	1017.19	546.59	348.6	207.15	384.89	584.68	
G10	565.28	1057.21	1307.35	1034.75	525.21	311.26	179.87	347.23	565.28	
G11	545.93	1080.24	1387.21	1052.21	502.55	277.38	155.75	312.07	545.93	
G12	524.4	1098.98	1462.16	1064.05	478.77	245.05	135.79	279.55	524.4	
G13	502.32	1112.15	1535.55	1073.54	454.13	216.4	117.95	248.73	502.32	
G14	477.44	1122.91	1612.39	1081.38	428.74	190.91	102.32	221.35	477.44	
G15	452.67	1131.78	1680.35	1082.32	402.5	168.73	90.19	196.67	452.67	
G16	427.37	1130.98	1747.89	1081.23	375.4	146.78	81.51	175.48	427.37	
G17	400.51	1127.86	1809.67	1074.06	347.79	127.53	75.09	157.07	400.51	
G18	373.28	1119.32	1868.05	1065.52	320.14	111.29	70.56	139.84	373.28	
G19	347.98	1111.91	1919.07	1052.63	290.64	98.64	67.35	122.85	347.98	
G20	322.31	1095.39	1964.9	1038.47	257.41	89.11	64.9	109.17	322.31	
G21	296.49	1078.02	1997.61	1018.6	223.1	82.59	62.68	98.12	296.49	
G22	271.67	1057.21	2029.04	993.68	189.97	77.31	61.17	89.96	271.67	
G23	246.89	1034.27	2047.17	967.68	160.28	73.77	59.42	83.63	246.89	
G24	223.29	1004.26	2061.75	939.97	135.31	70.61	57.77	78.87	223.29	
G25	197.38	974.8	2060.38	908.54	114.88	68.29	56.16	75.18	197.38	
G26	171.37	941.3	2057.88	877.53	98.69	65.65	54.84	72.21	171.37	
G27	147.92	910.85	2038.01	841.71	86.61	63.81	53.52	69.66	147.92	
G28	126.91	872.72	2013.14	801.21	77.69	61.97	52.34	67.49	126.91	
G29	108.98	835.76	1984.58	750.38	71.17	60.08	51.16	65.41	108.98	
G30	94.39	798.34	1949.19	691.62	66.03	58.38	49.42	63.62	94.39	
G31	82.74	758.64	1903.78	625.97	62.21	56.78	48.24	61.69	82.74	
G32	74.05	708.85	1854.74	557.3	58.76	55.31	47.24	60.13	74.05	
G33	67.77	653.77	1798.2	481.08	56.02	53.85	45.88	58.67	67.77	
G34	62.87	591.52	1739.77	402.64	53.52	52.15	44.88	57.25	62.87	
G35	59.18	522.85	1676.95	327.22	51.59	50.69	43.42	55.88	59.18	
G36	56.21	446.44	1606.91	257.79	48.99	49.04	42.19	54.7	56.21	

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	53.62	370.17	1526.44	199.93	47.15	47.39	41.01	53.29	53.62	
G38	51.35	296.49	1425.25	154.38	45.31	46.06	39.69	51.96	51.35	
G39	48.99	231.12	1310.8	120.54	43.75	44.65	37.9	50.45	48.99	
G40	47.29	175.62	1188.18	95.24	42.05	43.33	36.72	48.8	47.29	
G41	45.64	132.91	1065.47	76.46	40.49	41.86	35.68	47.29	45.64	
G42	43.94	102.51	936.58	63.29	38.8	40.26	34.74	46.02	43.94	
G43	42.38	81.93	800.79	53.8	37.24	38.65	33.93	44.6	42.38	
G44	40.97	67.68	667.36	46.39	35.59	36.86	33.32	43.19	40.97	
G45	39.55	57.86	535.92	40.64	34.26	35.68	32.61	41.25	39.55	
G46	38.09	50.69	417.6	36.48	32.75	34.55	32.09	39.5	38.09	
G47	36.86	44.65	316.17	33.13	31.24	33.56	31.29	38.32	36.86	
G48	35.49	40.59	235.61	31.1	29.5	32.47	30.68	37.43	35.49	
G49	34.03	37.24	176.89	28.88	28.08	31.62	30.02	36.11	34.03	
G50	32.57	34.83	135.6	26.95	26.34	30.49	29.5	35.26	32.57	
G51	31.24	32.8	105.01	25.34	24.73	29.78	29.07	34.36	31.24	
G52	29.64	31.06	83.21	23.79	23.41	28.7	28.6	33.65	29.64	
G53	28.22	29.17	66.83	21.99	22.18	27.99	27.89	32.47	28.22	
G54	26.62	27.52	55.08	20.44	21.1	27.0	27.04	31.86	26.62	
G55	24.87	26.19	46.96	18.83	20.01	26.34	26.1	30.91	24.87	
G56	23.32	24.26	42.15	17.42	18.97	25.53	25.25	30.16	23.32	
G57	22.28	22.84	38.7	15.72	18.12	24.87	23.98	29.45	22.28	
G58	21.24	21.1	36.01	14.21	17.04	23.98	22.89	28.79	21.24	
G59	20.29	19.82	33.75	12.55	16.28	23.13	21.62	28.03	20.29	
G60	19.35	18.03	31.43	11.37	15.39	22.23	20.67	27.28	19.35	
G61	18.5	16.28	29.21	10.52	14.82	21.43	19.35	26.43	18.5	
G62	17.98	14.73	27.28	9.39	14.02	20.34	18.31	25.68	17.98	
G63	16.75	13.45	25.06	8.45	13.5	19.3	17.18	24.59	16.75	
G64	16.05	12.37	23.03	7.74	12.84	18.27	16.24	23.69	16.05	
G65	15.2	11.37	21.0	6.99	12.08	17.46	15.1	22.65	15.2	
G66	14.49	10.48	19.35	6.23	11.28	16.28	14.06	21.62	14.49	
G67	13.88	9.72	17.56	5.57	10.62	15.39	13.07	20.48	13.88	
G68	13.22	8.92	16.19	5.0	9.82	14.49	12.08	19.45	13.22	
G69	12.6	8.17	14.91	4.67	9.16	13.59	11.19	18.5	12.6	
G70	11.94	7.55	13.78	4.25	8.31	12.51	10.24	17.37	11.94	
G71	11.23	7.17	12.79	3.73	7.65	11.61	9.34	16.28	11.23	
G72	10.48	6.56	11.94	3.16	6.8	10.76	8.59	15.29	10.48	
G73	9.86	6.14	10.86	2.69	6.09	9.82	7.74	14.16	9.86	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/4/17 16:50:34

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: