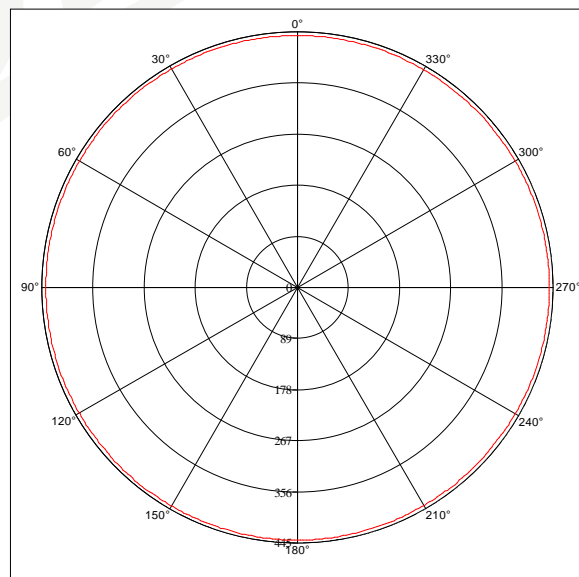
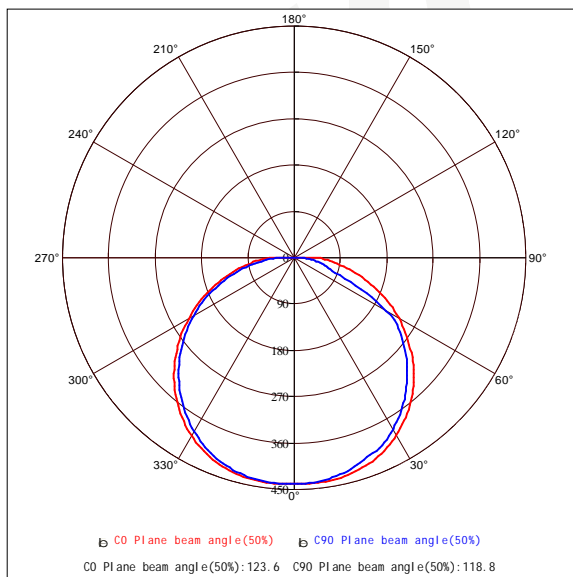


Goniophotometer Test Report

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.62lm						
Lamp Name: LED DOWN LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LP-DL20MF01-TB-C		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LP-DL20MF01-TB-C		Peak Value(cd)	440.3	Efficiency(lm/w)	85.4
Nominal P(w)	1.0		Position	180.0, 5.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	1733.62	Down(C0-C180)	50.5
Rated Flux(lm)	1.0		Up Flux Rate(%)	0.0	UP(C180-C360)	0.0
Illuminant QTY	1		Dw Flux Rate(%)	100.0	Down(C180-C360)	49.5

Planar Intensity Distribution Curve

Peak Point Conical surface Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

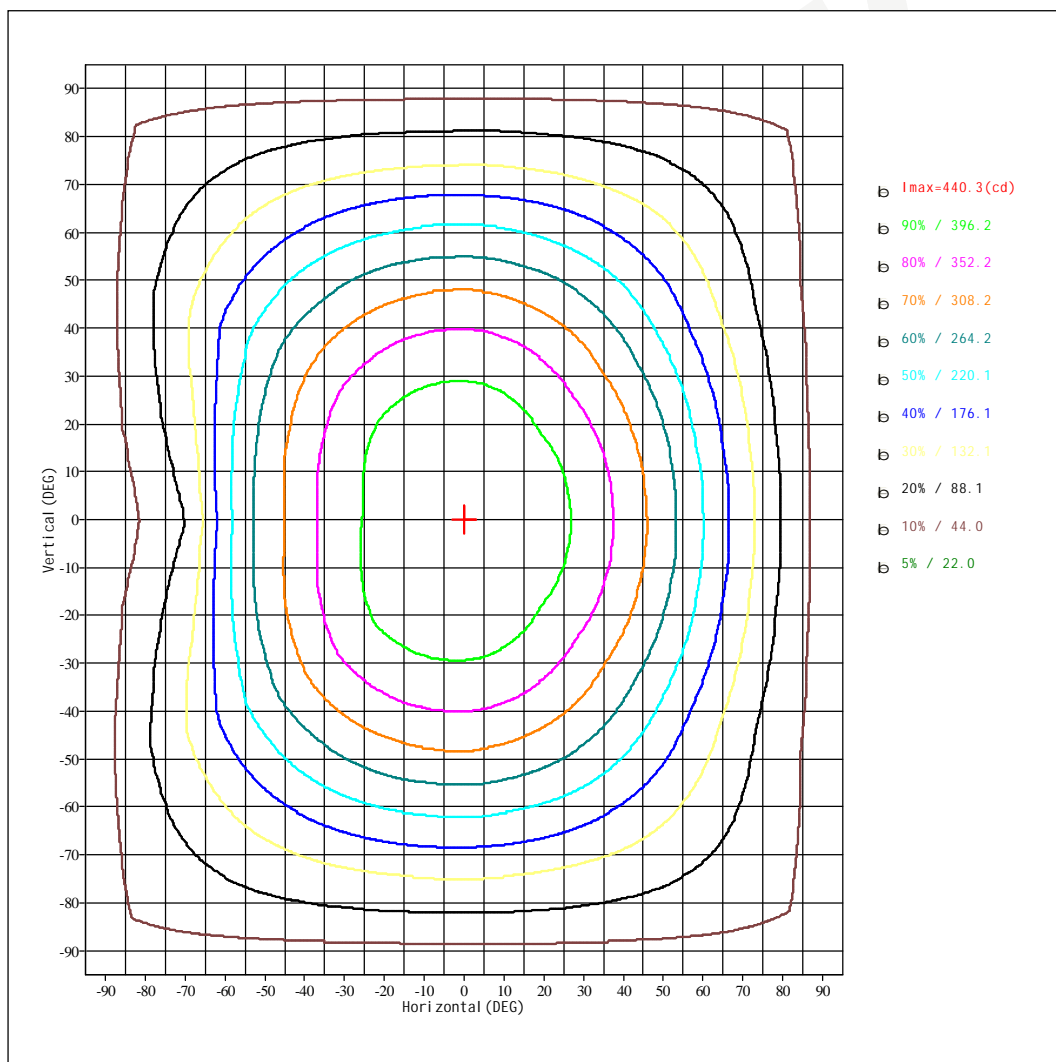
Humi dity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.62lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL20MF01-TB-C	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

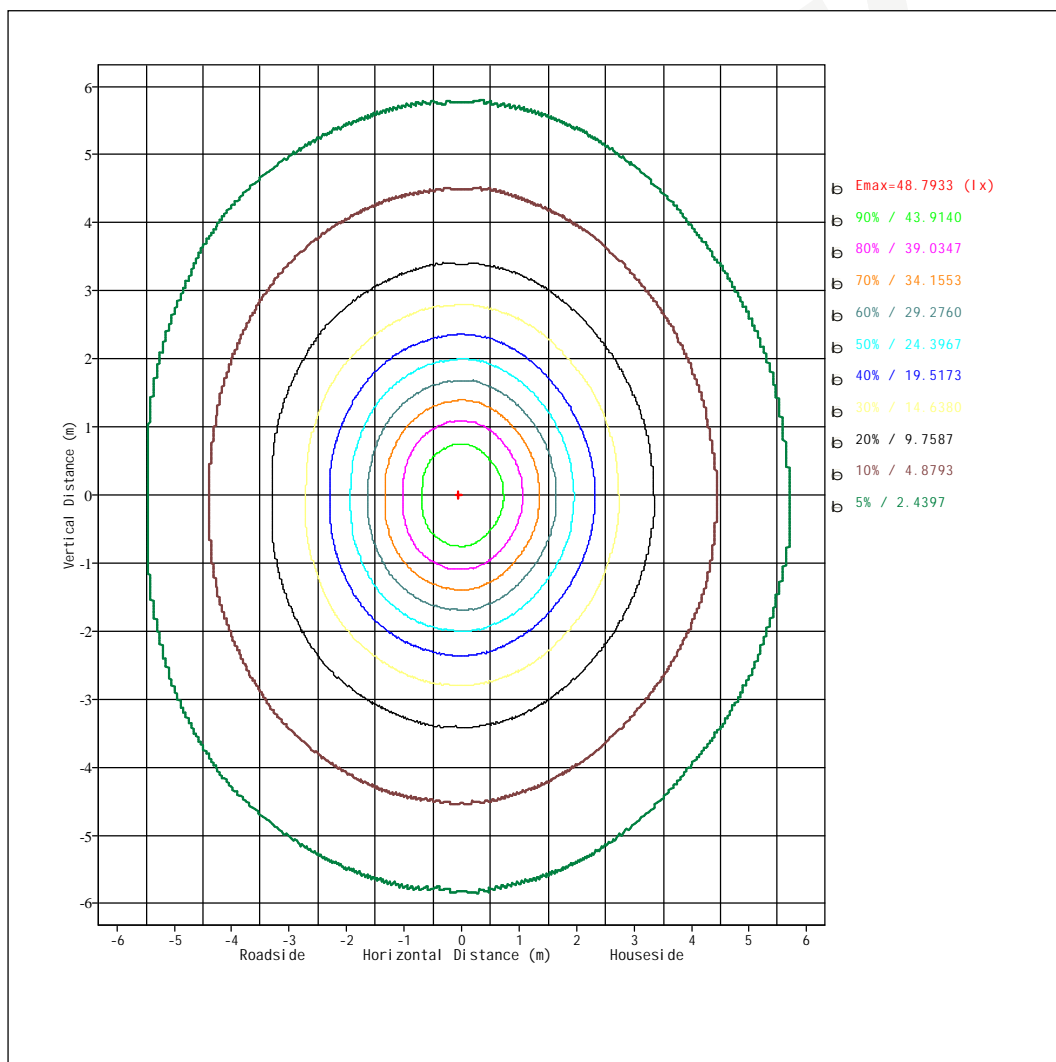
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.62lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL20MF01-TB-C	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Planar Isolux curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

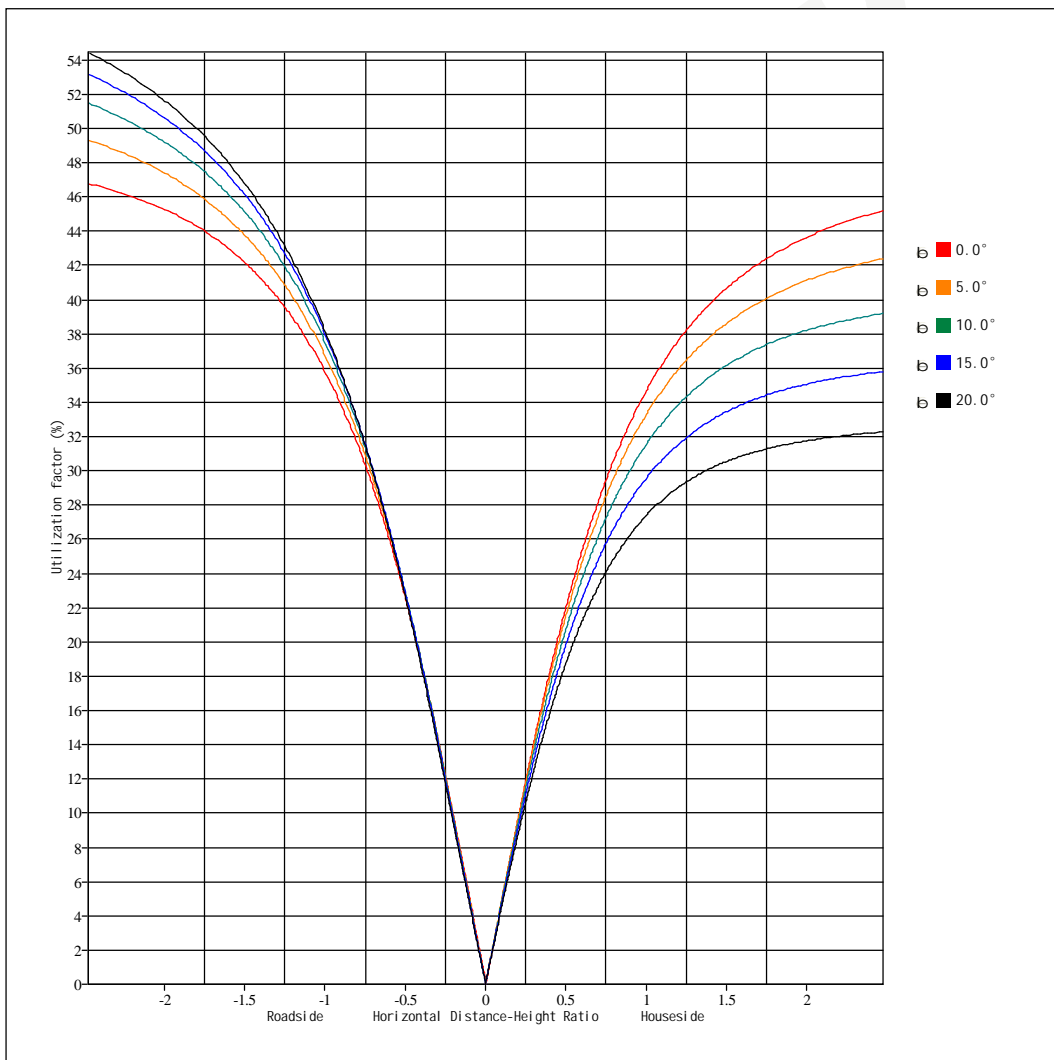
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.62lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL20MF01-TB-C	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Utilization Coefficient



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

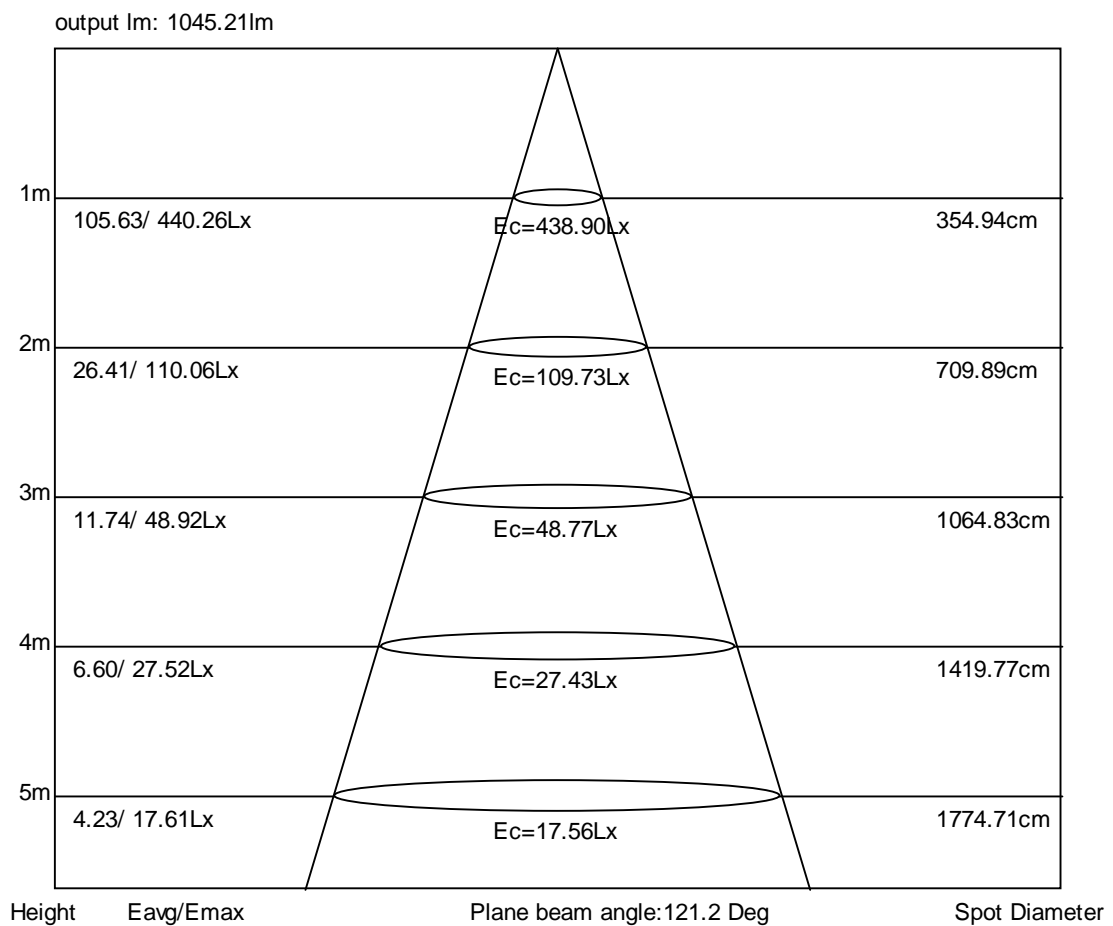
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.62lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL20MF01-TB-C	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.621m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL20MF01-TB-C	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	439	439	438	439	440	439	439	438	0-5	10.5	10.5
10	438	437	432	438	438	435	436	434	5-10	31.3	41.8
15	433	432	424	435	434	427	430	427	10-15	51.4	93.2
20	425	424	411	427	426	416	419	417	15-20	70.1	163
25	412	412	402	416	414	402	406	402	20-25	86.9	250
30	396	396	383	400	397	383	387	383	25-30	101	351
35	376	377	361	381	377	361	366	362	30-35	112	463
40	353	354	336	359	354	336	342	336	35-40	120	583
45	327	328	308	333	328	308	315	309	40-45	123	706
50	297	300	279	305	298	278	286	278	45-50	123	829
55	264	270	249	274	267	247	255	247	50-55	119	949
60	232	237	201	241	234	212	222	211	55-60	112	1060
65	196	202	137	207	201	176	189	175	60-65	99.4	1160
70	161	167	80.6	171	165	140	154	140	65-70	84	1244
75	127	132	63.8	135	132	105	119	105	70-75	68.3	1312
80	94.3	98.1	45.6	101	99.9	73.4	85.9	74.5	75-80	53.1	1365
85	67.1	67.6	29.1	70.4	71.7	47.4	56.1	49.9	80-85	38.1	1403
90	51.4	43.3	17.3	45.6	49	40.5	28.6	43.3	85-90	25.9	1429
95									90-95		
100									95-100		
105									100-105		
110									105-110		
115									110-115		
120									115-120		
125									120-125		
130									125-130		
135									130-135		
140									135-140		
145									140-145		
150									145-150		
155									150-155		
160									155-160		
165									160-165		
170									165-170		
175									170-175		
180									175-180		

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.7V I: 144.1mA P: 20.30W PF: 0.650 Test LM: 1733.62lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LP-DL20MF01-TB-C	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

CD Table

Gm\C(Deg)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340
5.0	439	439	439	439	438	438	439	439	440	440	440	439	439	439	439	439	438	438
10.0	438	437	437	436	433	434	436	438	438	438	437	435	435	436	436	435	435	436
15.0	433	432	432	429	425	426	431	435	434	434	431	428	428	429	429	428	428	430
20.0	425	424	424	420	414	414	421	426	426	426	422	418	417	419	419	418	418	421
25.0	412	412	412	408	404	405	411	415	415	414	408	403	403	405	405	403	403	408
30.0	396	396	396	392	386	387	395	400	399	397	391	384	384	386	387	385	385	390
35.0	376	376	377	371	364	365	374	380	379	377	370	363	363	365	365	363	363	370
40.0	353	354	354	348	340	341	351	358	356	354	346	338	338	341	341	338	338	346
45.0	327	327	328	321	312	314	325	332	330	328	319	310	310	313	313	311	311	319
50.0	297	298	300	293	283	285	296	304	301	298	289	280	281	284	284	281	280	289
55.0	264	267	269	263	253	254	266	273	270	267	258	249	250	253	253	250	249	257
60.0	232	234	236	225	209	209	228	240	237	234	224	214	215	220	220	215	213	223
65.0	196	199	202	181	151	152	184	206	203	201	190	178	180	186	186	180	178	187
70.0	161	163	166	138	99.5	100	141	170	168	165	154	143	144	151	150	144	142	152
75.0	127	129	131	110	78.7	79.5	112	135	133	132	120	108	110	116	116	110	108	117
80.0	94.3	96	97.7	80.9	57.1	57.7	82.8	101	100	99.9	88.3	76.3	77.5	83.2	83.4	78.3	76.7	85.7
85.0	67.1	67.3	67.6	55	37.5	38.2	56.9	70.5	71.1	71.7	61	50.1	50.3	54.2	54.8	51.9	51.8	59.5
90.0	51.4	47.8	44.2	34.8	23	23.5	36.3	46	47.5	49	45.3	41.4	36.6	31.2	31.9	38.5	44.2	47.8
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
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150.0																		
155.0																		
160.0																		
165.0																		
170.0																		
175.0																		
180.0																		

Gama Angle Range: -90 - 90(Deg)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: zxcg

Date: 2023-10-23

Distance(m): 7.500

Remark:

Test System: ZWL Goniophotometer System V3.0