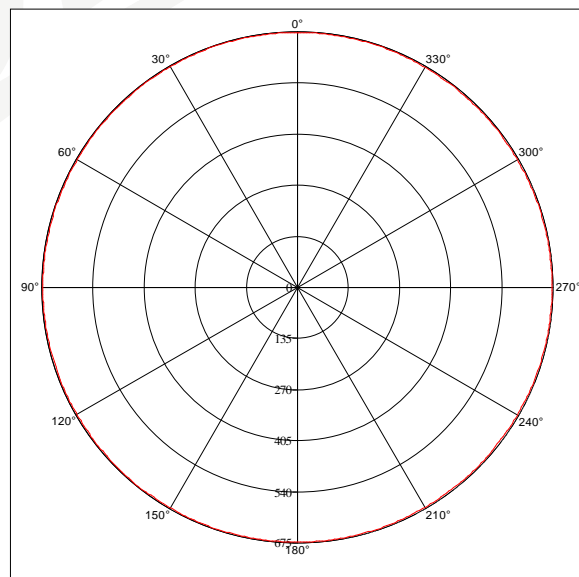
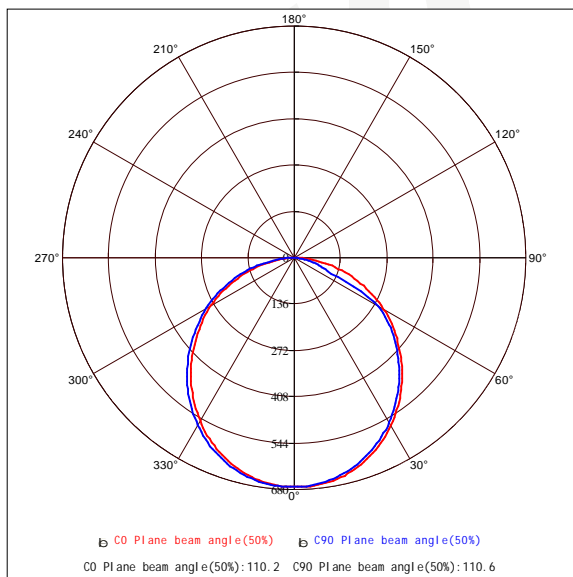


Goniophotometer Test Report

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.23lm						
Lamp Name: LED DOWN LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPDL-20AS01-Y		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-20AS01-Y		Peak Value(cd)	673.4	Efficiency(lm/w)	87.1
Nominal P(w)	1.0		Position	0.0, 1.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	1747.23	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): 9.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

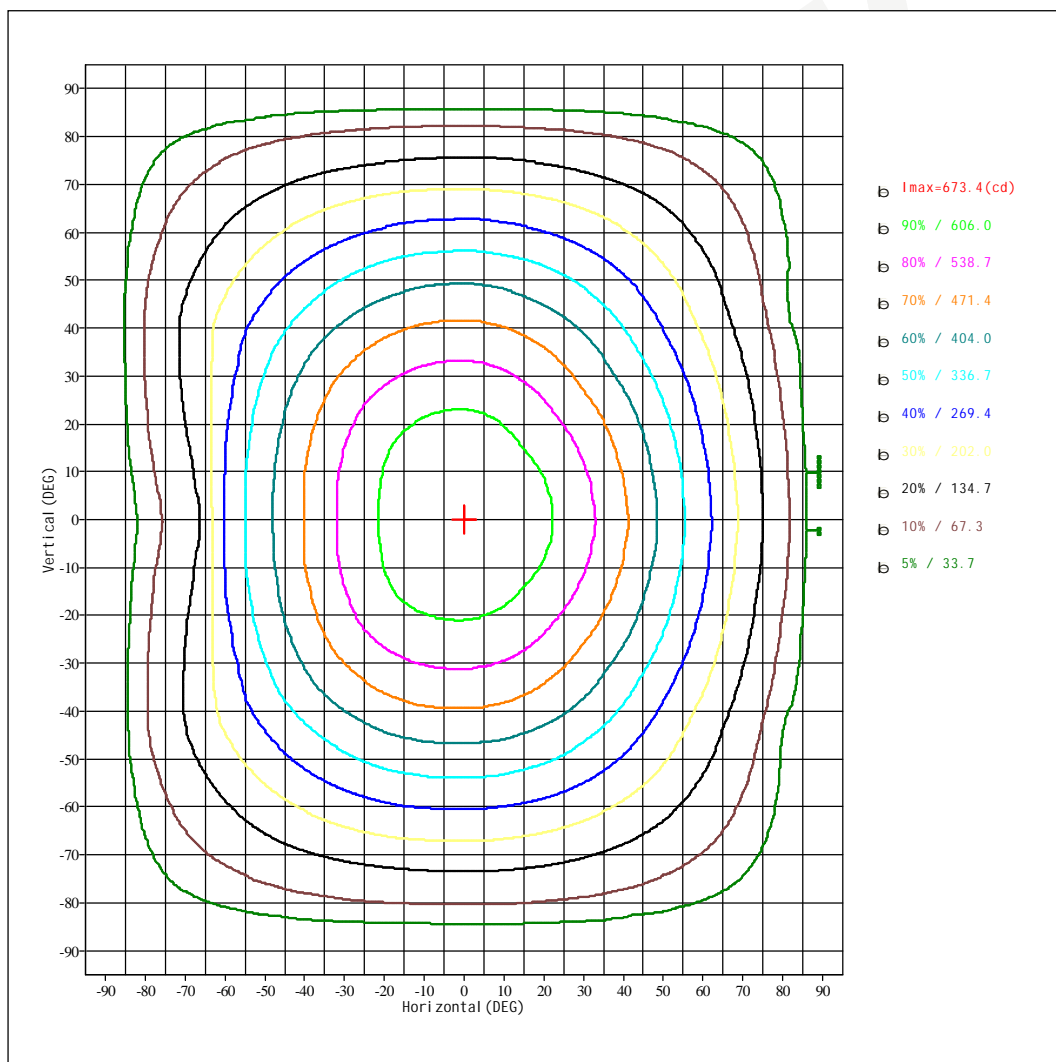
Humi dity(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.231m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-20AS01-Y	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): 9.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

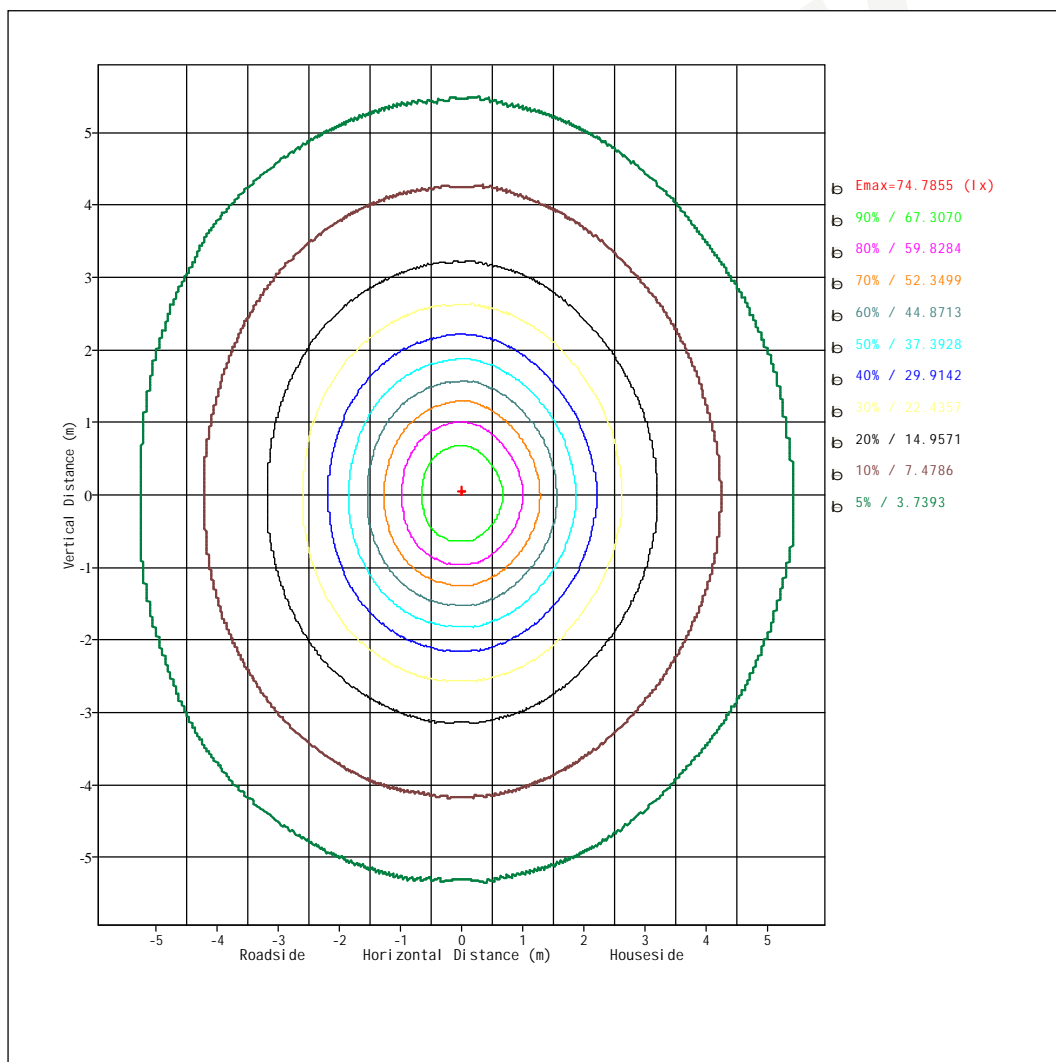
Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.23lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-20AS01-Y	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: zxcg

Distance(m): 9.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

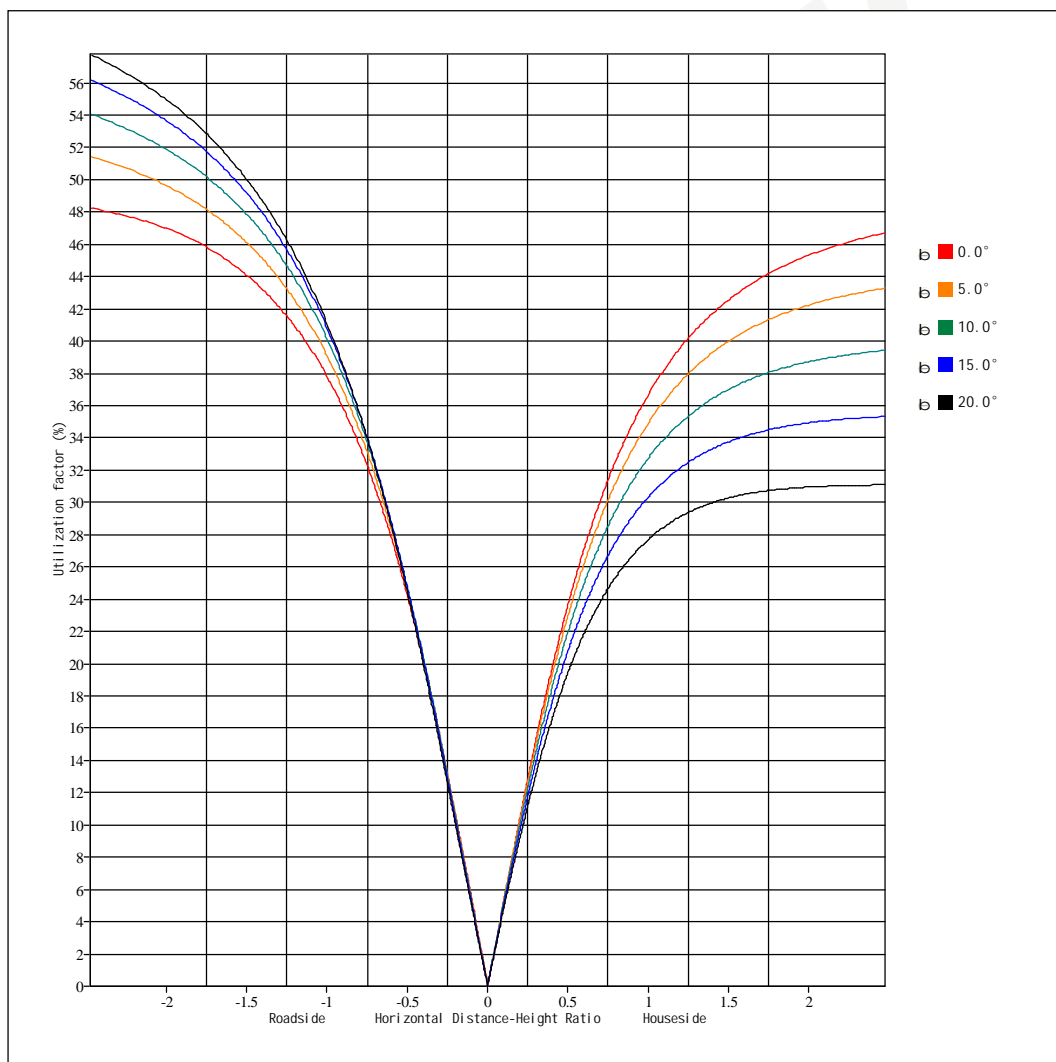
Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.23lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-20AS01-Y	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): 9.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

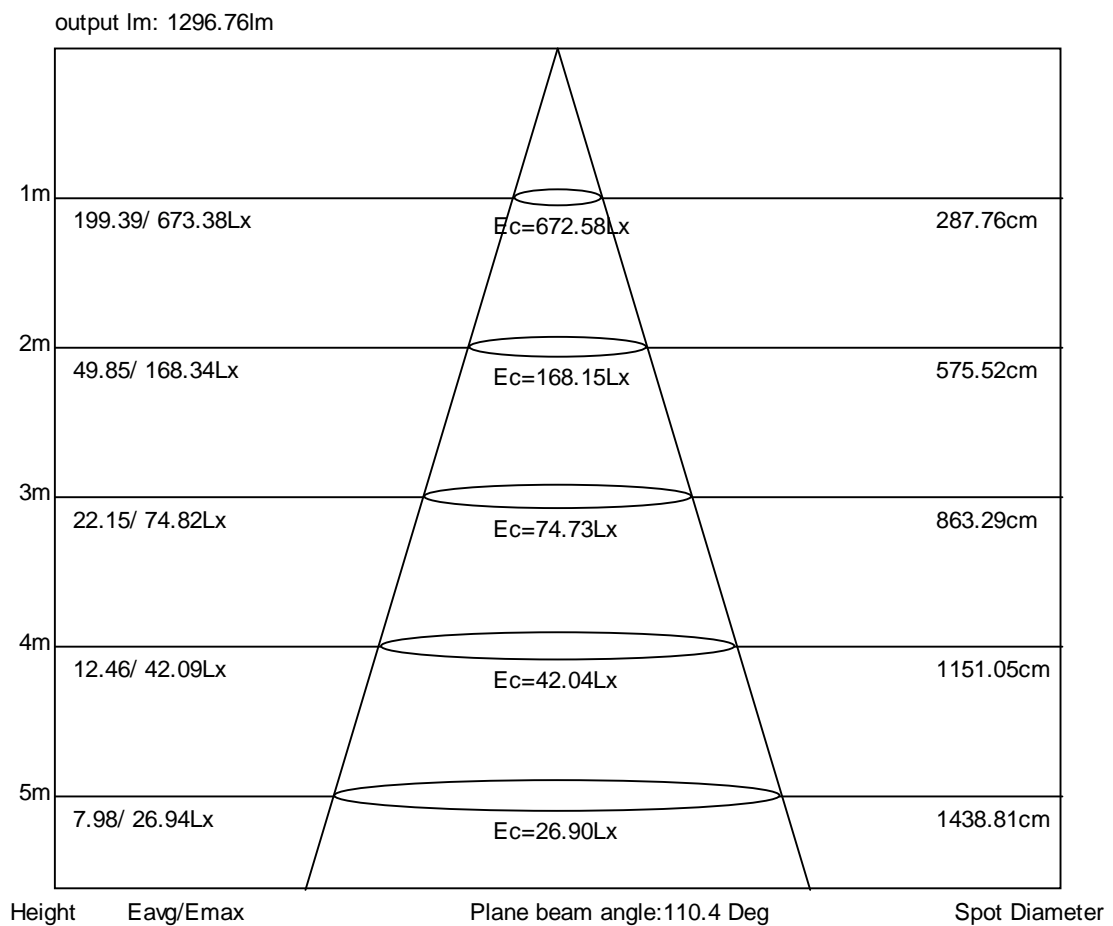
Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.23lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-20AS01-Y	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): 9.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.231m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-20AS01-Y	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	671	671	668	670	668	667	670	667	0-5	16	16
10	663	664	658	662	657	654	661	655	5-10	47.5	63.6
15	647	649	640	646	638	635	645	637	10-15	77.2	141
20	626	628	617	624	614	610	623	613	15-20	104	245
25	598	601	589	597	584	579	596	583	20-25	127	372
30	565	569	555	564	549	543	563	548	25-30	145	517
35	528	533	517	527	510	503	525	509	30-35	158	675
40	487	492	475	486	467	459	483	465	35-40	166	841
45	443	449	430	441	422	413	438	420	40-45	168	1010
50	396	402	386	395	375	366	391	374	45-50	165	1175
55	349	354	336	346	326	315	342	323	50-55	157	1332
60	298	305	278	298	276	262	293	271	55-60	144	1475
65	246	254	154	246	224	209	242	218	60-65	124	1599
70	193	202	90	193	172	155	190	164	65-70	99	1698
75	139	149	64.4	141	120	103	137	112	70-75	75.8	1774
80	88.2	97.3	40.8	89.5	70.5	52.7	86	61.1	75-80	51.7	1826
85	42.3	48.2	14	41	22	8.26	37.3	17	80-85	27.4	1853
90	5.95	3.91	3.35	3.8	6.59	6.2	6.67	6.61	85-90	7.46	1860
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): 9.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.5V I: 141.7mA P: 20.06W PF: 0.654 Test LM: 1747.231m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPDL-20AS01-Y	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	671	671	671	670	669	669	670	670	669	668	668	667	668	669	670	668	668	670
10.0	663	663	664	662	659	659	660	661	659	657	655	654	656	659	660	657	656	659
15.0	647	648	649	646	642	642	644	645	642	638	637	635	638	643	644	640	638	643
20.0	626	627	628	624	619	618	622	623	619	614	612	610	614	620	621	616	614	620
25.0	598	599	601	597	591	591	594	596	590	584	582	579	584	592	593	587	585	591
30.0	565	567	569	565	558	557	561	562	556	549	546	544	549	558	560	553	550	558
35.0	528	530	532	528	520	519	523	525	517	510	507	504	510	520	521	514	511	520
40.0	487	489	491	486	479	477	482	484	475	467	464	460	467	478	479	471	468	478
45.0	443	446	448	443	434	433	438	439	430	422	418	414	421	433	434	426	422	433
50.0	396	399	401	396	389	388	392	393	384	375	371	367	374	386	387	380	376	387
55.0	349	351	353	348	340	338	343	344	335	326	321	317	324	336	338	329	326	338
60.0	298	301	304	296	284	283	291	295	286	276	270	264	272	286	288	278	274	286
65.0	246	249	253	221	176	174	216	243	234	224	217	210	220	235	237	226	221	234
70.0	193	197	201	165	114	113	159	191	181	172	164	157	166	182	184	173	167	180
75.0	139	144	148	121	82.9	81.1	116	138	129	120	112	105	114	130	131	120	115	127
80.0	88.2	92.2	96.3	78.8	53.2	51.5	73.5	87.4	78.8	70.5	62.7	54.7	63.6	78.7	80.6	69.3	64.1	76.4
85.0	42.3	44.9	47.5	37	21.5	19.9	32.1	38.9	30.3	22	16	9.77	17.8	31	32.9	23.6	19.7	31.2
90.0	5.95	5.06	4.14	3.73	3.48	3.45	3.65	4.1	5.37	6.59	6.42	6.24	6.35	6.57	6.66	6.63	6.54	6.24
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
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145.0																		
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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: 2023-11-10

Distance(m): 9.000

Remark:

Test System: ZWL Goniophotometer System V3.0