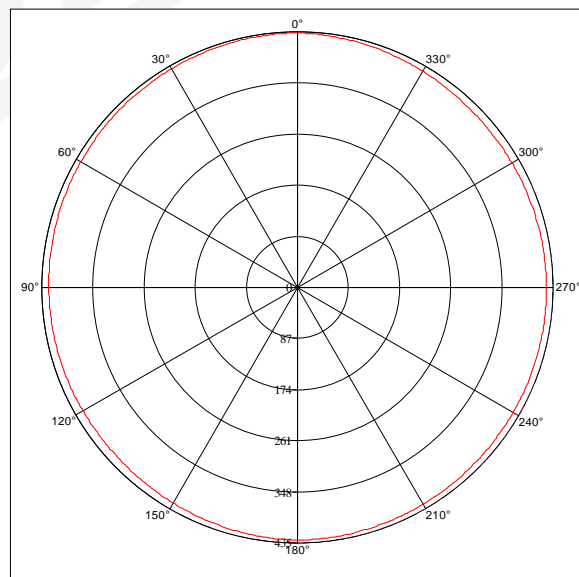
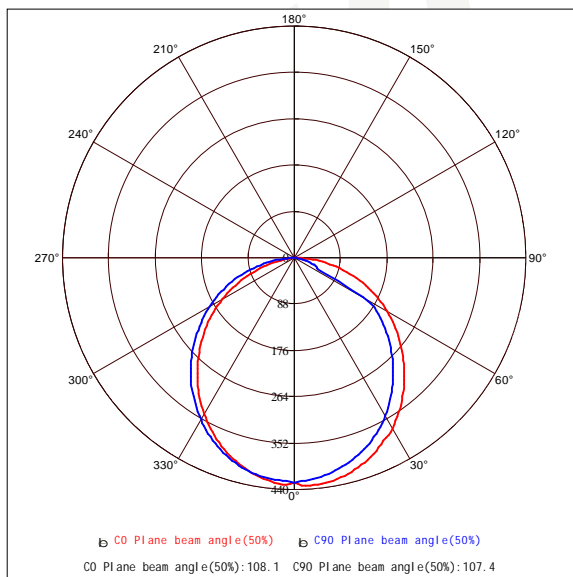


## Goniophotometer Test Report

Measured Para U: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.74lm						
Lamp Name: LED DOWN LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPDL-12AS01-Y		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-12AS01-Y		Peak Value(cd)	433.2	Efficiency(lm/w)	90.4
Nominal P(w)	1.0		Position	0.0, 3.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	1094.74	Down(C0-C180)	49.4
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)	50.6

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

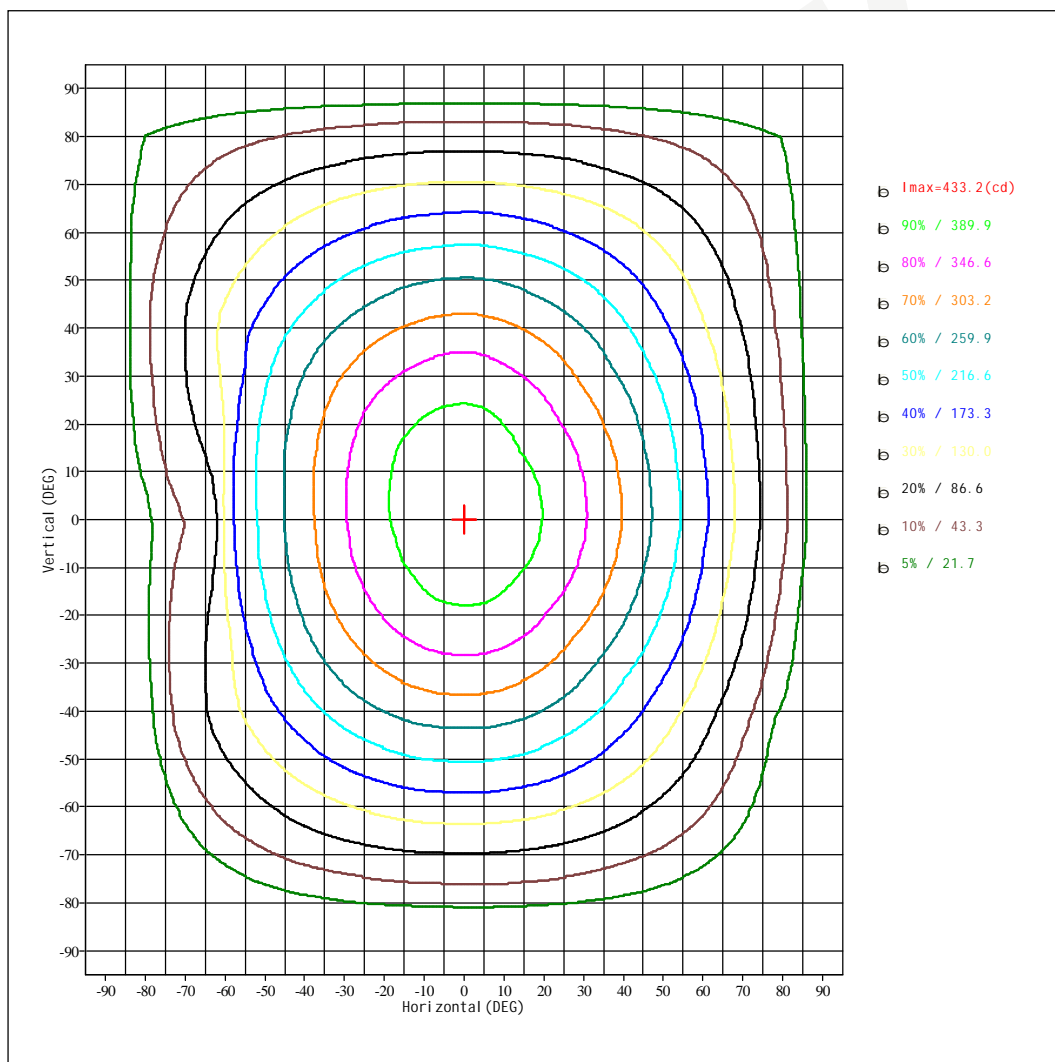
Humi dity(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.74lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-12AS01-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

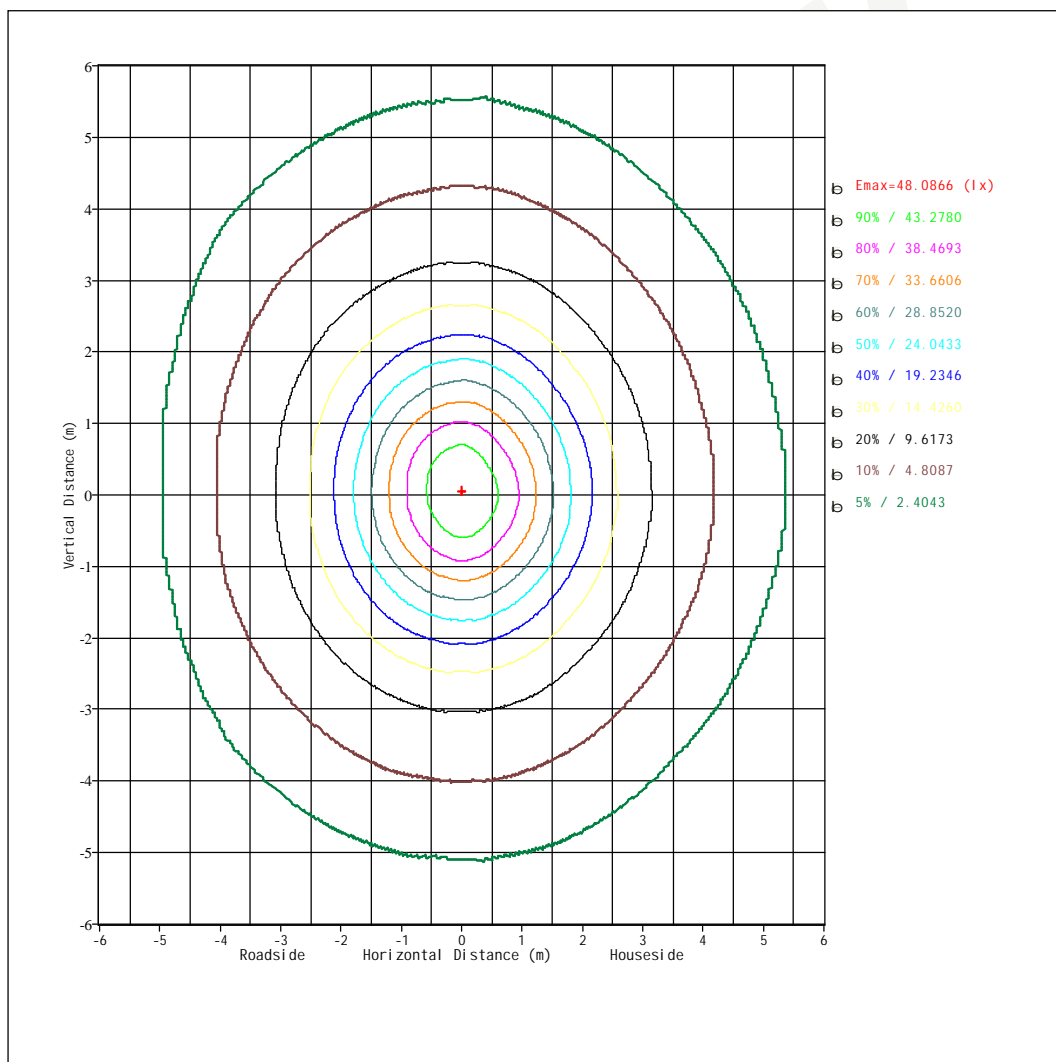
Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.74lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-12AS01-Y	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Planar Isolux 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

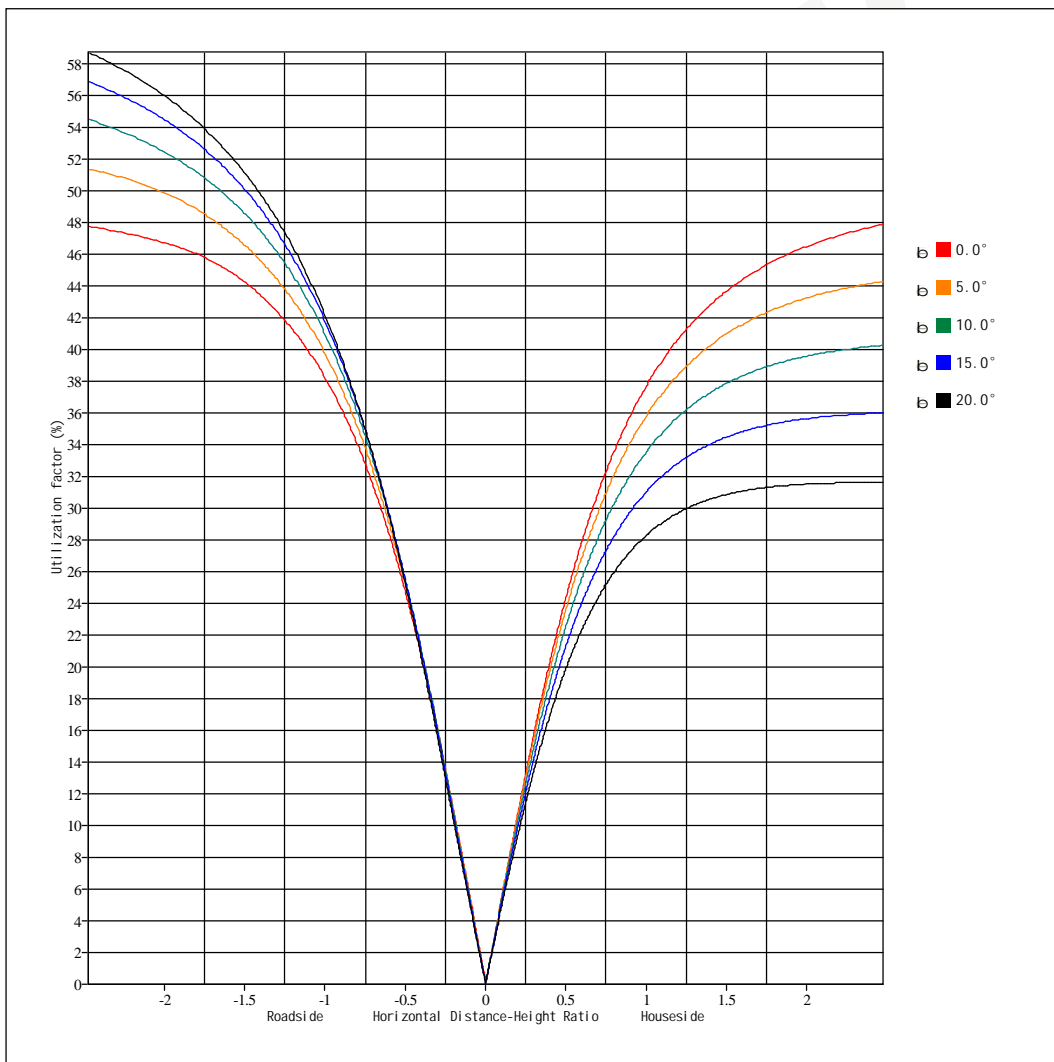
Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.74lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-12AS01-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

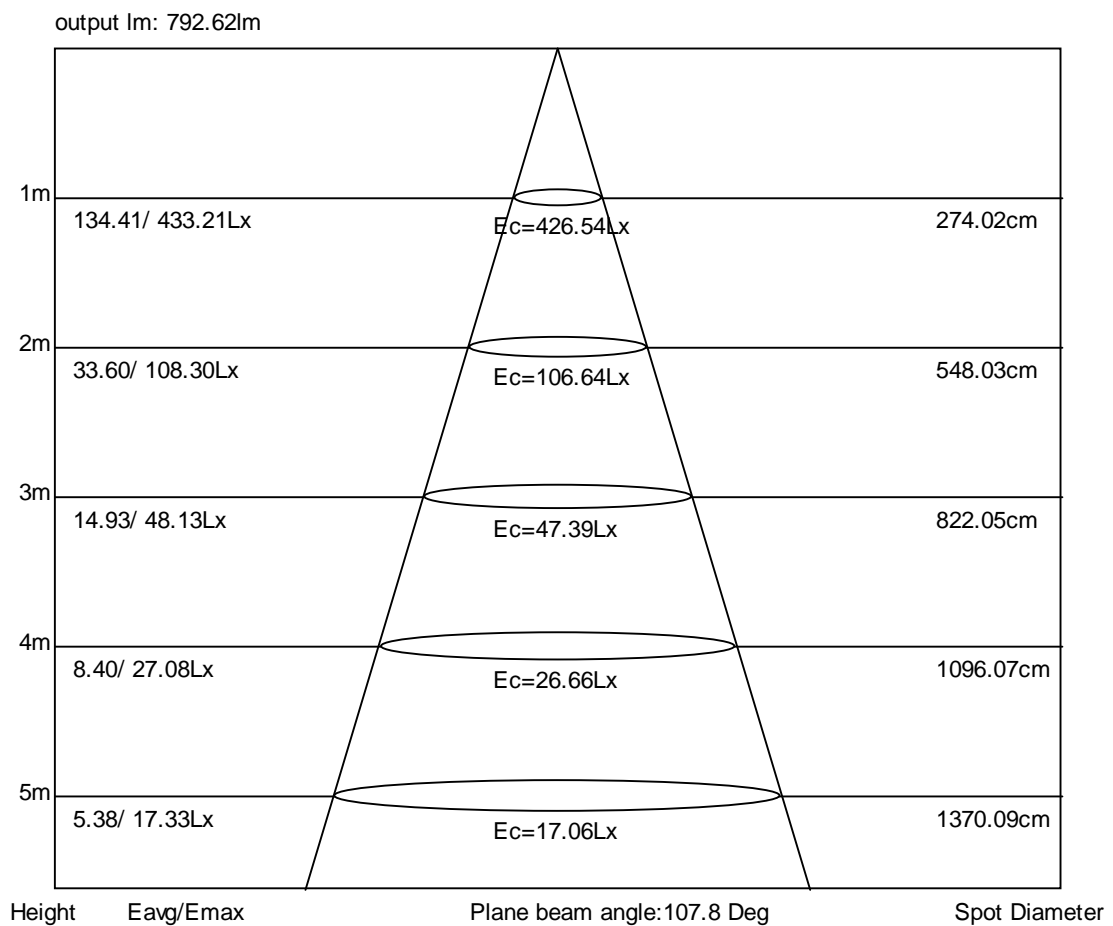
Humi di ty(%): 60

Date: 2023-11-10

Remark:

Measured Para U: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.74lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-12AS01-Y	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	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: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.74lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-12AS01-Y	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	433	427	421	419	428	422	423	421	0-5	10.2	10.2
10	429	423	413	411	418	413	417	415	5-10	30.1	40.3
15	420	414	401	399	403	399	407	405	10-15	48.8	89.1
20	406	400	385	382	385	384	392	390	15-20	65.6	155
25	389	382	367	362	364	362	374	375	20-25	80	235
30	372	361	343	339	339	337	352	353	25-30	91.3	326
35	348	338	317	315	313	310	328	328	30-35	99.3	425
40	322	313	289	286	283	281	303	302	35-40	104	529
45	294	284	260	257	252	250	274	273	40-45	105	634
50	264	254	228	225	220	218	244	244	45-50	102	736
55	233	223	196	194	187	186	213	213	50-55	96.2	832
60	201	191	138	161	154	153	181	182	55-60	87.3	919
65	168	159	48.9	128	119	119	149	150	60-65	72.2	991
70	135	126	42.3	93.2	84.5	84.4	116	117	65-70	58.2	1050
75	100	90.9	26.7	59.3	50.4	50.9	82.2	82.5	70-75	43.8	1093
80	65.1	56.6	11.8	26.7	16.9	18.2	49.7	49.2	75-80	28	1121
85	31.4	23.2	2.3	3.16	4.37	4.04	18.1	16.9	80-85	12.8	1134
90	8.21	2.99	1.9	2.11	3.96	3.68	4.3	4.6	85-90	3.77	1138
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: 216.1V I: 87.6mA P: 12.11W PF: 0.640 Test LM: 1094.741m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPDL-12AS01-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	433	430	428	425	423	421	419	420	424	428	425	423	423	423	422	422	422	428
10.0	429	426	423	420	415	413	412	412	415	418	416	414	414	416	417	416	417	423
15.0	420	417	414	409	403	400	399	399	401	403	401	400	402	405	406	405	406	413
20.0	406	404	401	395	388	384	383	383	384	385	385	384	387	390	392	391	392	399
25.0	389	386	383	377	370	366	364	363	363	364	363	362	366	371	374	374	376	383
30.0	372	367	363	356	347	342	341	339	339	339	338	337	342	349	352	353	355	364
35.0	348	343	339	331	322	317	316	315	314	313	311	310	316	324	328	328	330	339
40.0	322	318	314	305	294	289	287	286	285	283	282	281	288	298	302	302	304	313
45.0	294	289	285	276	265	259	258	256	254	252	251	250	258	269	274	273	275	285
50.0	264	260	255	246	234	228	226	225	222	220	219	218	227	238	244	244	246	255
55.0	233	229	224	214	202	196	195	193	190	187	187	186	195	207	213	213	215	224
60.0	201	197	192	174	150	143	153	160	157	154	154	153	162	175	181	181	184	192
65.0	168	164	160	123	72.9	66.3	102	127	123	119	119	119	129	143	150	150	152	160
70.0	135	131	127	98.3	60.5	53.4	76.5	92.2	88.3	84.5	84.4	84.4	94.8	109	116	117	119	127
75.0	100	96.1	91.9	69.8	40.7	33.8	48.6	58.3	54.3	50.4	50.6	50.9	61.2	75.4	82.3	82.4	84.4	92.5
80.0	65.1	61.4	57.6	41.9	21.6	15	21.8	25.6	21.2	16.9	17.5	18	28.5	42.8	49.6	49.4	51	58.1
85.0	31.4	27.8	24.1	16.3	6.86	2.49	2.88	3.29	3.84	4.37	4.22	4.08	8.66	15	17.8	17.3	18.5	25.1
90.0	8.21	5.93	3.56	2.63	2.13	1.94	2.04	2.31	3.15	3.96	3.84	3.71	3.88	4.16	4.37	4.5	5	6.63
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
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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