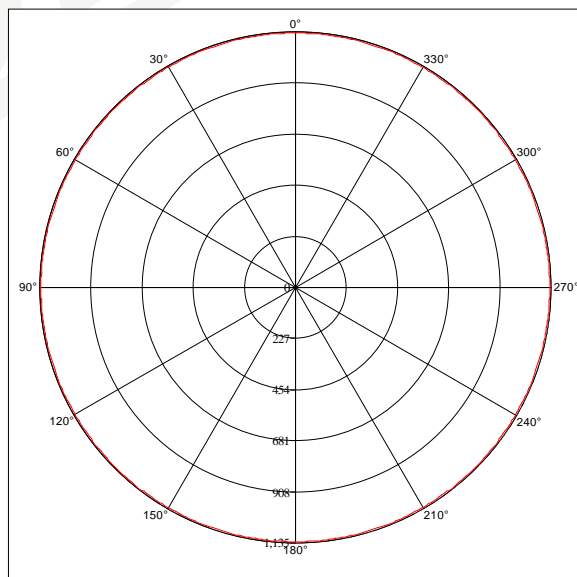
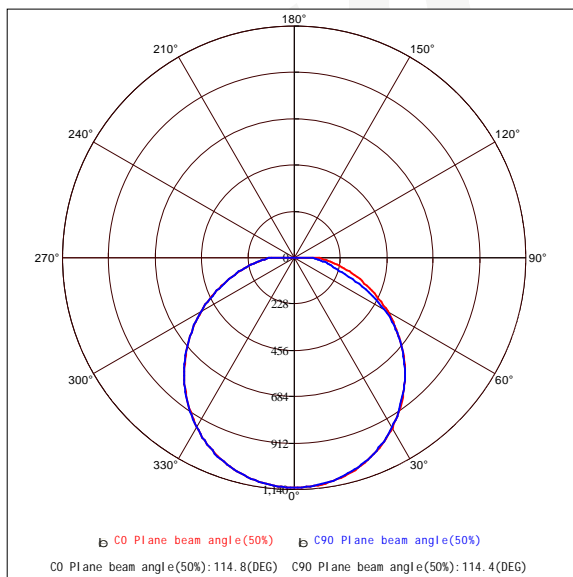


Goniophotometer Test Report

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.57lm						
Lamp Name: LED DOWN LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPDL-45MS01-Y		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-45MS01-Y		Peak Value(cd)	1131.2	Efficiency(lm/w)	89.3
Nominal P(w)	1.0		Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	4009.57	Down(C0-C180)	50.7
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)	49.3

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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

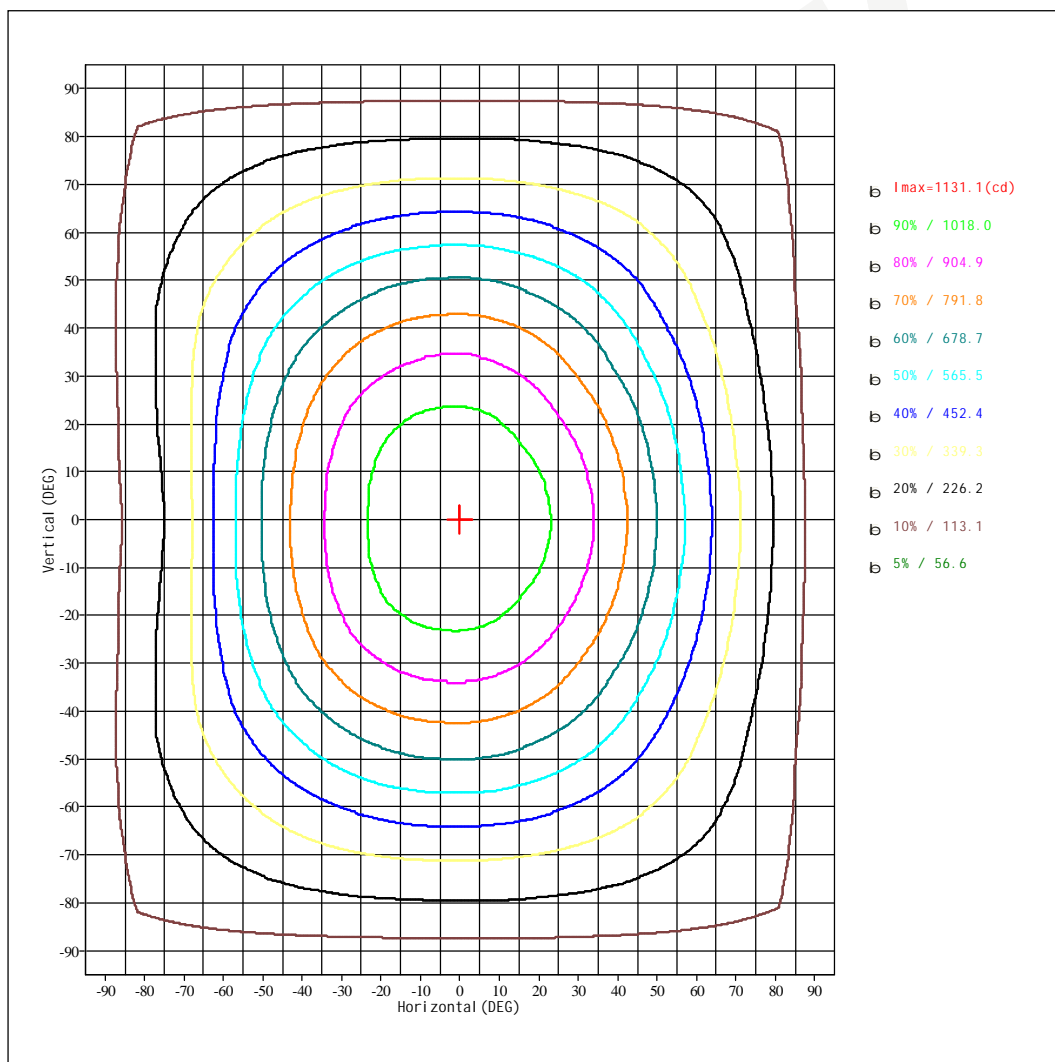
Humi dity(%): 60

Date: 2023-10-13

Remark:

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.571m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-45MS01-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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

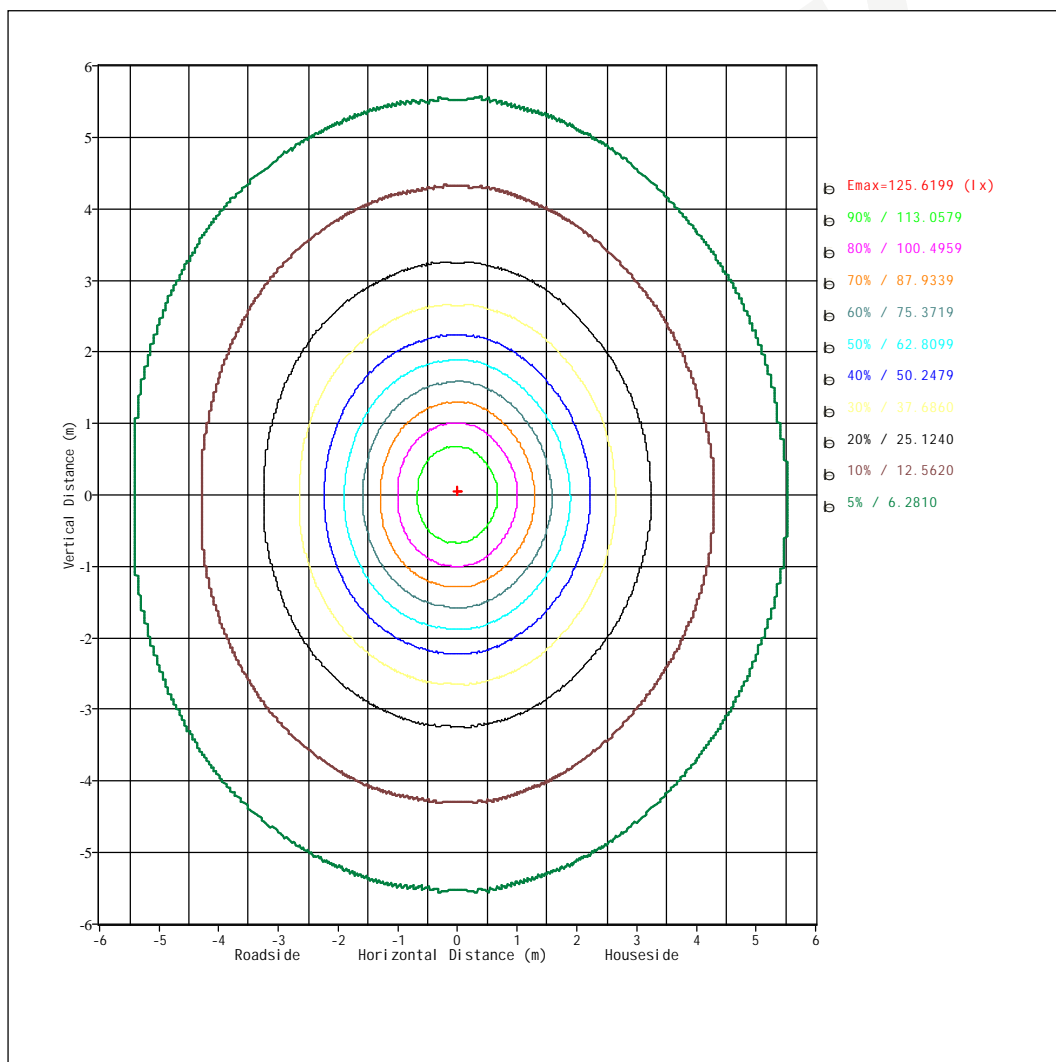
Humi di ty(%): 60

Date: 2023-10-13

Remark:

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.571m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-45MS01-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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

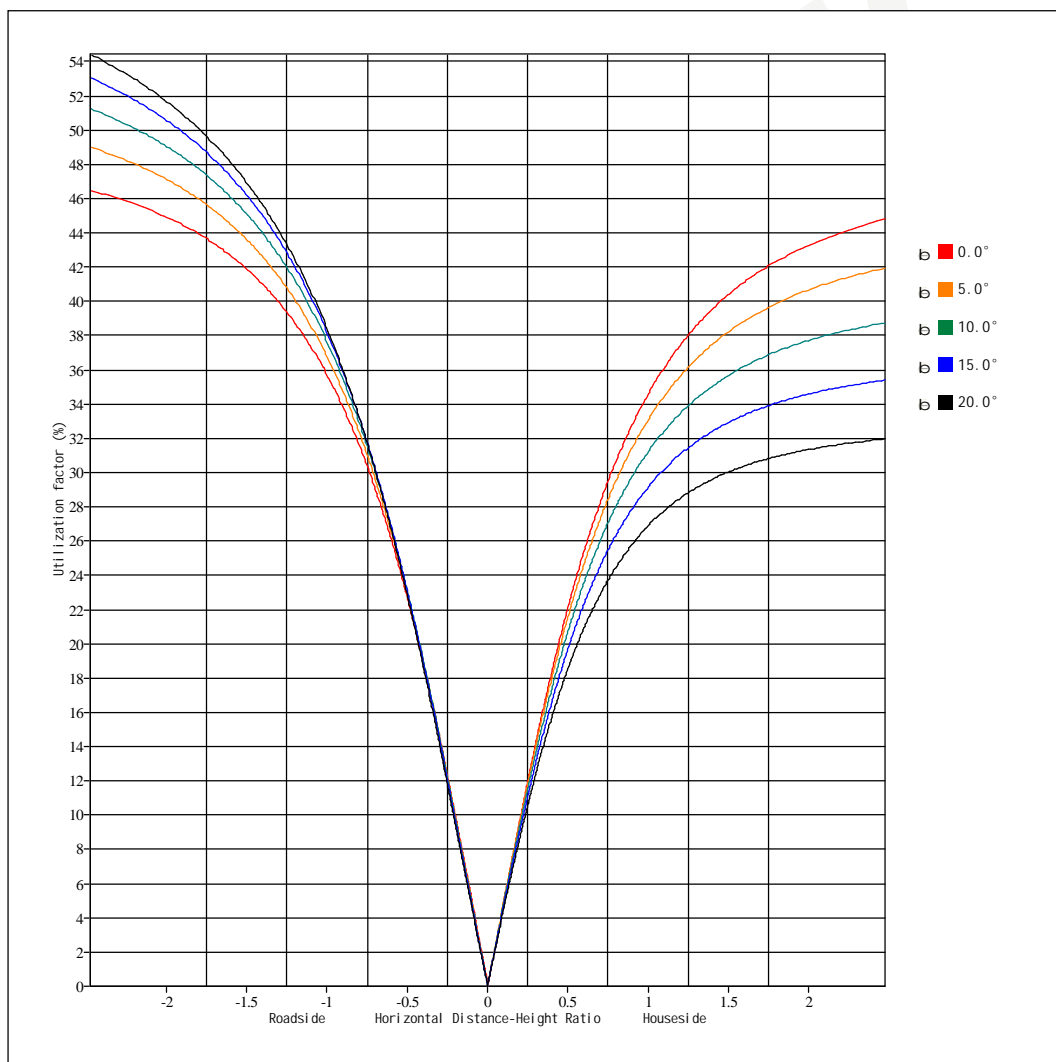
Humi di ty(%): 60

Date: 2023-10-13

Remark:

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.571m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-45MS01-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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

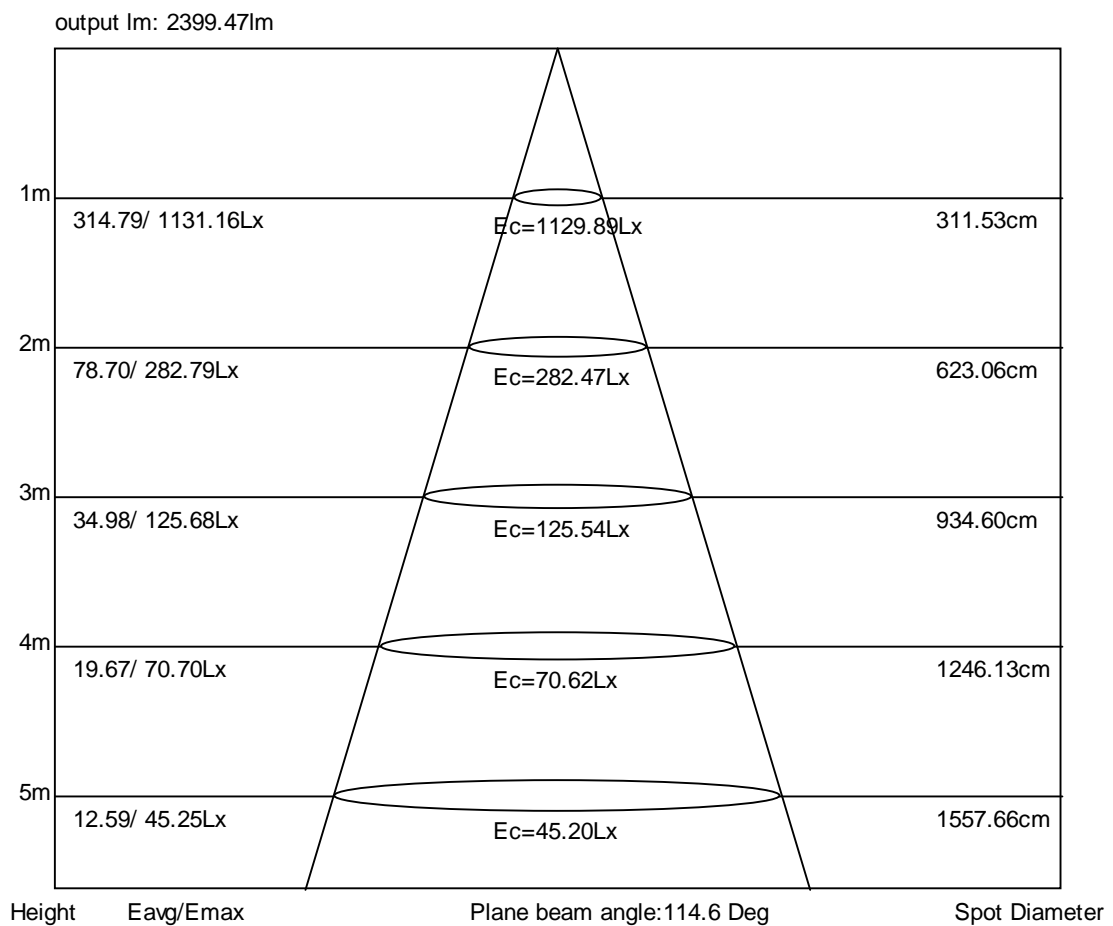
Humi di ty(%): 60

Date: 2023-10-13

Remark:

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.57lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-45MS01-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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-10-13

Remark:

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.571m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-45MS01-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	1126	1128	1125	1127	1125	1122	1125	1121	0-5	27	27
10	1113	1116	1111	1115	1110	1104	1110	1103	5-10	80	107
15	1088	1095	1086	1094	1085	1076	1085	1075	10-15	130	237
20	1055	1063	1053	1063	1051	1039	1051	1038	15-20	176	413
25	1012	1022	1010	1022	1007	993	1008	991	20-25	216	629
30	961	972	959	972	955	939	956	937	25-30	249	878
35	902	915	900	915	896	878	897	875	30-35	273	1151
40	836	851	833	851	829	809	830	807	35-40	288	1439
45	765	781	763	781	757	735	759	732	40-45	294	1733
50	687	704	686	704	680	656	682	654	45-50	291	2024
55	606	624	604	625	602	574	602	572	50-55	279	2303
60	523	541	503	542	520	490	519	488	55-60	258	2561
65	439	458	396	459	438	408	436	405	60-65	230	2791
70	359	378	294	379	358	331	358	329	65-70	197	2987
75	287	302	215	303	286	258	286	256	70-75	162	3150
80	219	235	165	235	219	194	220	192	75-80	129	3279
85	162	174	121	173	161	139	162	137	80-85	98.3	3377
90	125	121	93.3	121	112	110	112	108	85-90	71.5	3448
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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2023-10-13

Remark:

Measured Para U: 215.7V I: 337.1mA P: 44.90W PF: 0.552 Test LM: 4009.571m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPDL-45MS01-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	1126	1127	1128	1127	1126	1126	1127	1127	1126	1125	1124	1123	1123	1125	1124	1123	1122	1124
10.0	1113	1114	1116	1115	1112	1112	1114	1115	1112	1110	1107	1104	1106	1109	1108	1105	1104	1108
15.0	1088	1091	1094	1092	1088	1088	1091	1093	1089	1085	1081	1077	1079	1083	1083	1078	1076	1082
20.0	1055	1058	1062	1060	1055	1055	1059	1061	1056	1051	1046	1041	1043	1049	1048	1042	1039	1047
25.0	1012	1016	1021	1018	1013	1013	1018	1020	1014	1007	1001	995	998	1005	1004	997	994	1003
30.0	961	966	971	968	962	962	968	970	962	955	948	941	945	952	952	943	939	950
35.0	902	908	914	910	903	903	910	913	904	896	888	879	884	892	892	882	878	890
40.0	836	842	849	845	837	837	845	848	839	829	820	811	816	826	825	814	810	823
45.0	765	772	779	775	767	766	775	778	767	757	747	737	743	753	753	741	736	750
50.0	687	695	702	698	690	690	698	702	690	680	669	659	665	676	676	663	658	673
55.0	606	614	622	618	608	608	618	622	612	602	590	577	583	596	595	582	575	591
60.0	523	531	539	528	511	511	529	539	529	520	507	493	499	513	512	498	492	508
65.0	439	447	456	438	410	410	438	457	447	438	425	411	417	430	429	415	409	424
70.0	359	367	375	350	312	312	351	376	367	358	346	334	340	352	352	339	332	346
75.0	287	294	301	274	234	235	274	301	293	286	274	262	268	280	280	266	260	273
80.0	219	226	233	212	180	180	212	233	226	219	208	197	203	214	214	201	195	207
85.0	162	167	172	157	133	133	156	172	166	161	151	142	147	157	156	145	140	151
90.0	125	123	122	112	99.4	99.3	112	120	116	112	111	110	110	111	111	109	109	117
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: zxg

Date: 2023-10-13

Distance(m): 8.500

Remark:

Test System: ZWL Goniophotometer System V3.0