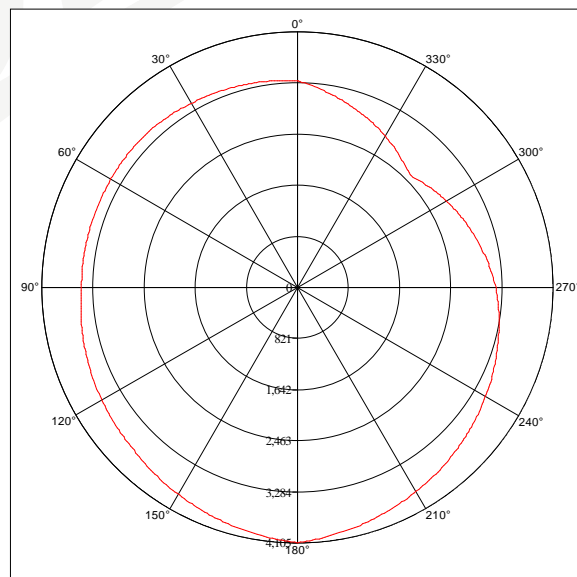
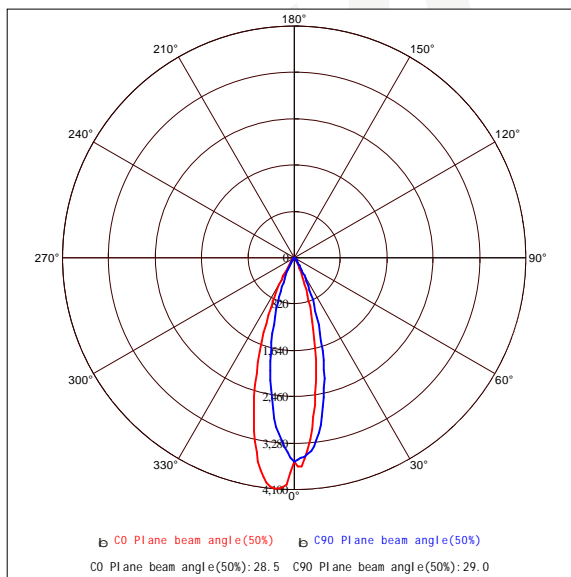


Goniophotometer Test Report

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.11m						
Lamp Name: LED DOWN LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LPDL-15A-Y		Lamp Spec: LPDL-15A-Y		Shape Size:		
Manufactory: LIPER		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPDL-15A-Y		Peak Value(cd)	4101.0	Efficiency(lm/w)	88.8
Nominal P(w)	1.0		Position	180.0, 4.0	UP(C0-C180)	0.0
Rated Volt(v)	1.0		Total Flux(lm)	1217.108	Down(C0-C180)	59.5
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)	40.5

Planar Intensity Distribution Curve

Peak Point Conical surface Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxx

Distance(m): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

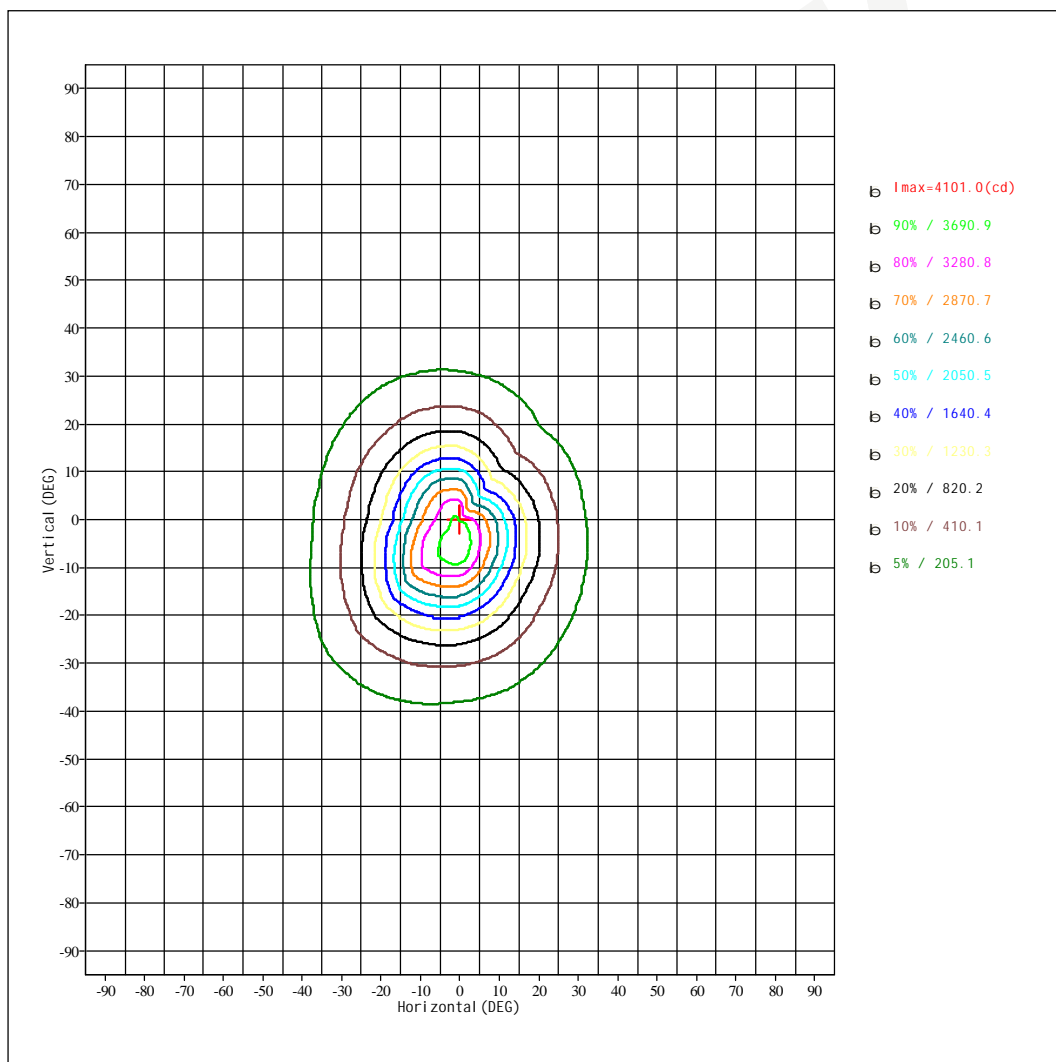
Humi dity(%): 60

Date: 2023-9-21

Remark:

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.11lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-15A-Y	Lamp Spec: LPDL-15A-Y	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

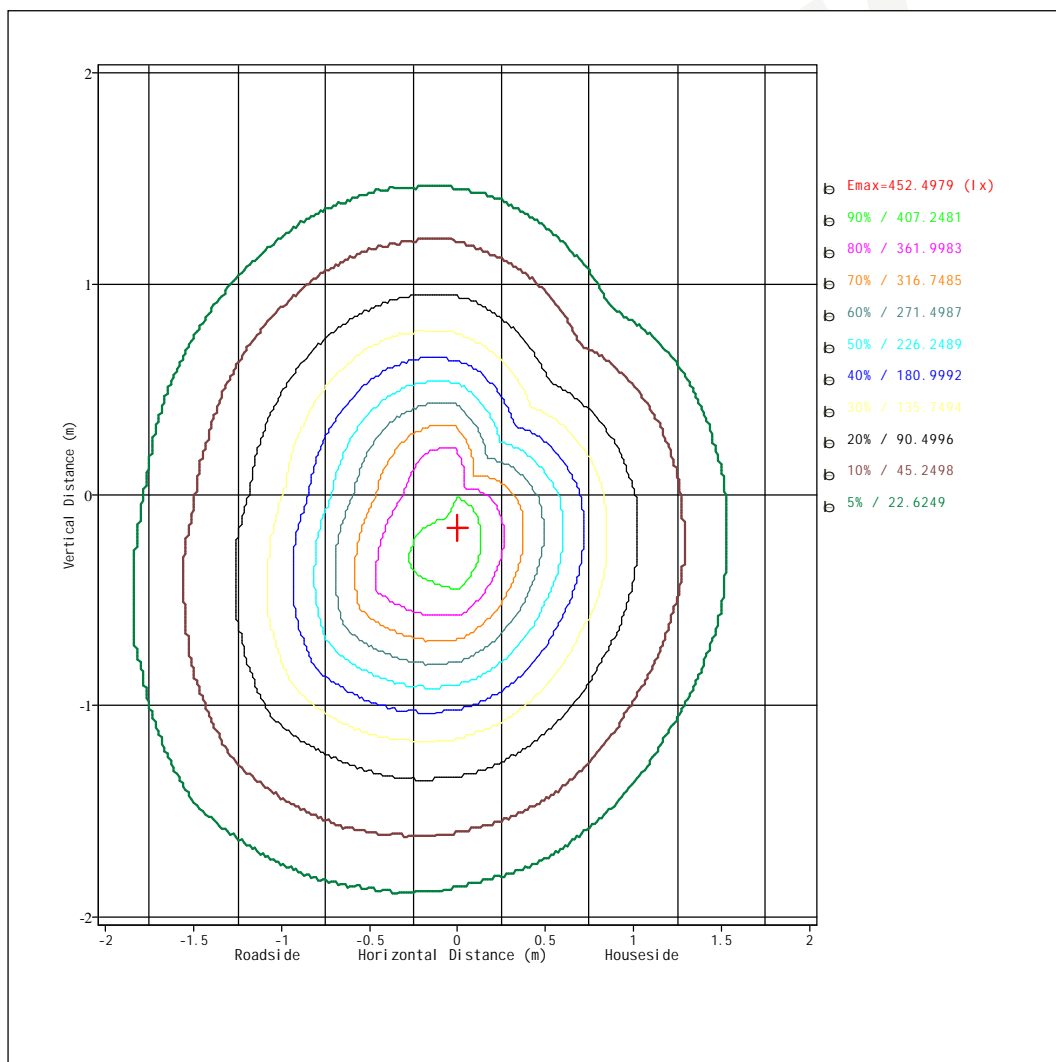
Humi di ty(%): 60

Date: 2023-9-21

Remark:

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.111m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-15A-Y	Lamp Spec: LPDL-15A-Y	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): 8.500

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

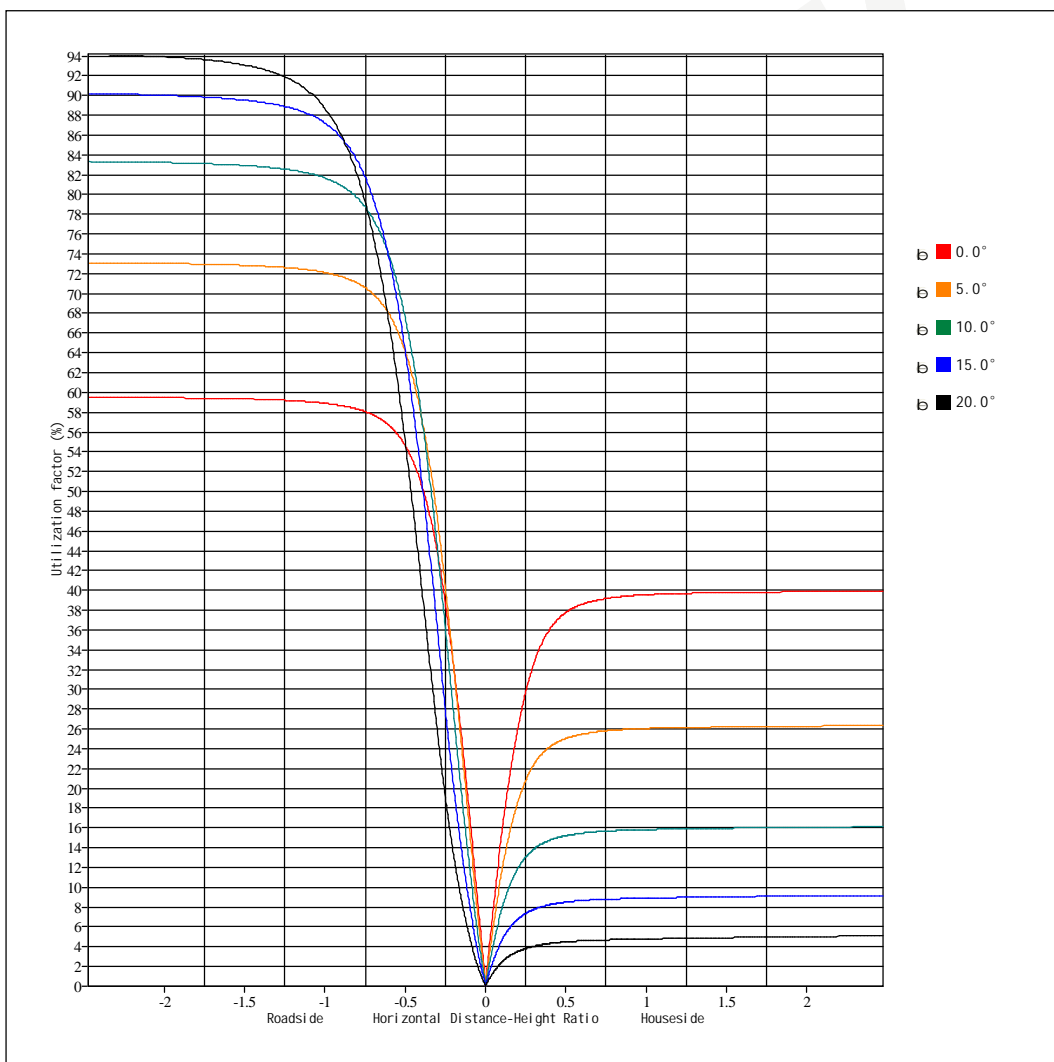
Humi di ty(%): 60

Date: 2023-9-21

Remark:

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.11lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-15A-Y	Lamp Spec: LPDL-15A-Y	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

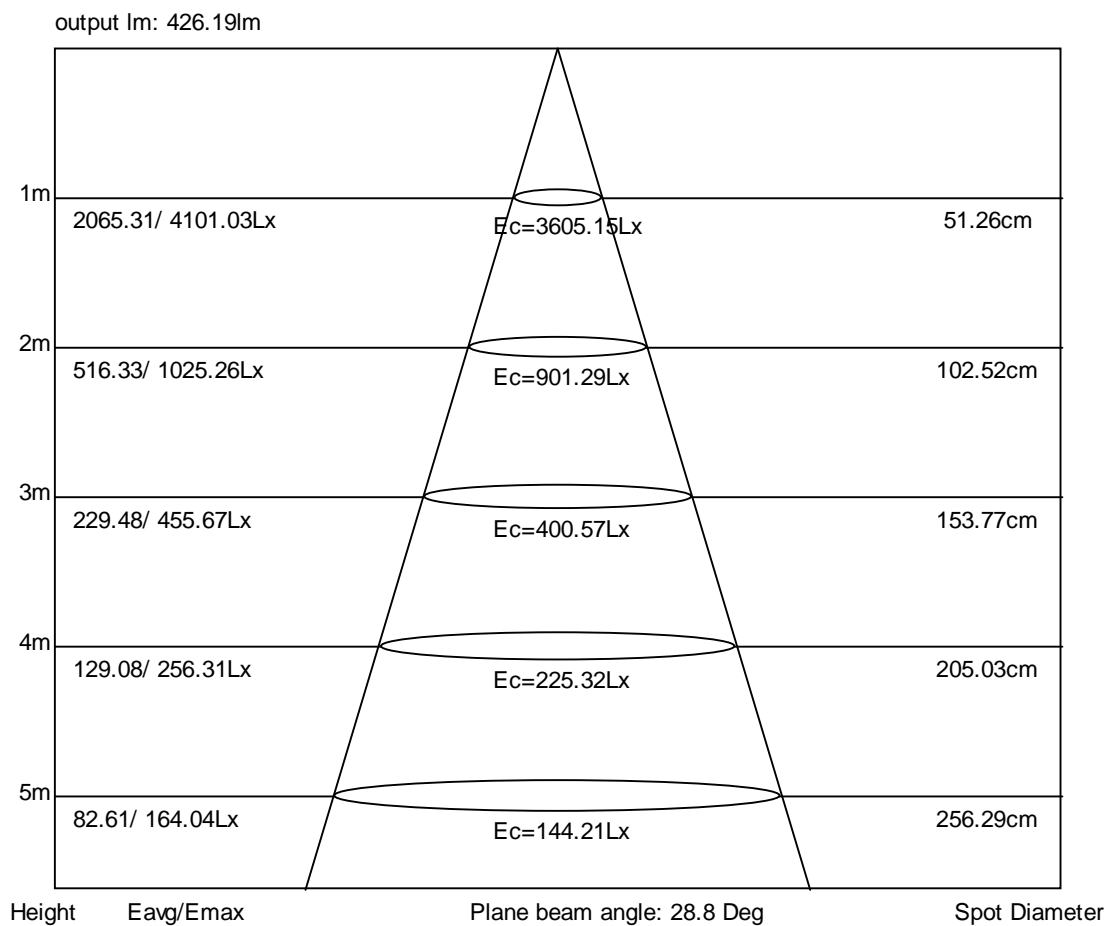
Humi di ty(%): 60

Date: 2023-9-21

Remark:

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.11lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-15A-Y	Lamp Spec: LPDL-15A-Y	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: 2023-9-21

Remark:

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.11lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPDL-15A-Y	Lamp Spec: LPDL-15A-Y	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	3140	3335	3407	3766	4085	3550	3080	2354	0-5	82.9	82.9
10	2128	2504	2776	3701	3589	2818	2287	1454	5-10	214	296
15	1247	1611	1963	3091	2652	1898	1462	768	10-15	263	560
20	650	903	1202	2212	1679	1096	796	363	15-20	238	798
25	294	443	676	1347	915	535	371	158	20-25	173	971
30	127	203	329	720	417	221	158	79.8	25-30	106	1077
35	62.9	99	154	337	161	97.9	75.1	42.5	30-35	57.1	1134
40	38	53.6	75.3	156	72.8	50.7	40.8	22.8	35-40	30.4	1165
45	21.6	31.8	40.6	77.6	43.4	29.7	24.4	11.1	40-45	17.6	1182
50	11.2	16.9	22.2	42.9	29.6	16.6	11.9	4.88	45-50	10.7	1193
55	5.82	8.38	11.7	26	16.2	8.05	5.7	3.82	50-55	6.37	1199
60	4.91	5.49	6.2	13.3	7.69	4.26	4.06	3.84	55-60	3.75	1203
65	4.44	4.85	4.91	6.78	4.53	3.92	3.92	4.02	60-65	2.57	1206
70	4.13	4.34	4.2	5.24	4.26	3.97	4.02	4.44	65-70	2.25	1208
75	3.98	4.12	3.97	4.62	4.19	4.31	4.43	4.58	70-75	2.24	1210
80	3.76	3.89	3.81	4.01	4.53	4.75	4.85	5.02	75-80	2.31	1212
85	3.48	3.63	3.63	3.96	4.91	5.07	5.1	4.99	80-85	2.35	1215
90	3.28	3.35	3.47	3.7	5.1	5.19	5.12	4.79	85-90	2.35	1217
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: 2023-9-21

Remark:

Measured Para U: 214.9V I: 99.0mA P: 13.70W PF: 0.642 Test LM: 1217.111m		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LPDL-15A-Y	Lamp Spec: LPDL-15A-Y	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	3140	3225	3314	3358	3391	3485	3648	3801	3946	4085	3851	3608	3396	3183	2922	2592	2440	2796
10.0	2128	2293	2463	2593	2717	2979	3398	3689	3638	3589	3251	2902	2644	2403	2105	1727	1528	1833
15.0	1247	1406	1571	1727	1886	2210	2721	3043	2844	2652	2322	1980	1755	1557	1310	995	820	1037
20.0	650	761	875	1001	1137	1423	1881	2154	1913	1679	1424	1160	997	861	701	505	394	524
25.0	294	359	427	520	625	823	1127	1300	1104	915	748	576	481	407	324	228	173	235
30.0	127	160	195	244	301	414	592	687	550	417	332	243	200	172	141	105	85	106
35.0	62.9	78.7	95.1	117	142	194	277	318	238	161	133	105	90.4	80.1	68	53.2	44.7	54
40.0	38	44.8	51.9	60.7	70.6	93	130	147	109	72.8	63.1	53.1	47.4	43	36.9	28.7	24.4	31.3
45.0	21.6	26.1	30.7	34.7	38.6	48.7	65.5	73.9	58.4	43.4	37.4	31.2	28	25.6	21.5	15.4	12.2	17
50.0	11.2	13.7	16.3	18.6	21	26.7	36.1	41.5	35.4	29.6	23.9	18	15	12.9	10.4	7.19	5.56	8.41
55.0	5.82	6.94	8.1	9.47	11	14.8	21.3	24.9	20.5	16.2	12.7	8.94	7.28	6.21	5.29	4.44	4.04	4.94
60.0	4.91	5.17	5.43	5.72	6.04	7.74	10.9	12.7	10.1	7.69	6.19	4.64	4.2	4.1	4.01	3.91	3.95	4.44
65.0	4.44	4.62	4.8	4.87	4.89	5.32	6.17	6.54	5.52	4.53	4.26	3.98	3.92	3.92	3.94	3.99	4.06	4.25
70.0	4.13	4.22	4.32	4.3	4.23	4.43	4.9	5.13	4.69	4.26	4.13	4	3.99	4.01	4.12	4.31	4.41	4.27
75.0	3.98	4.04	4.1	4.07	4	4.11	4.41	4.58	4.38	4.19	4.24	4.29	4.35	4.4	4.46	4.53	4.52	4.24
80.0	3.76	3.82	3.88	3.87	3.83	3.86	3.95	4.07	4.3	4.53	4.62	4.72	4.78	4.83	4.89	4.96	4.88	4.31
85.0	3.48	3.54	3.62	3.63	3.63	3.7	3.85	4.06	4.49	4.91	4.98	5.05	5.08	5.09	5.08	5.03	4.83	4.14
90.0	3.28	3.31	3.34	3.39	3.44	3.52	3.62	3.85	4.49	5.1	5.14	5.18	5.17	5.13	5.04	4.9	4.63	3.94
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
135.0																		
140.0																		
145.0																		
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: 2023-9-21

Distance(m): 8.500

Remark:

Test System: ZWL Goniophotometer System V3.0