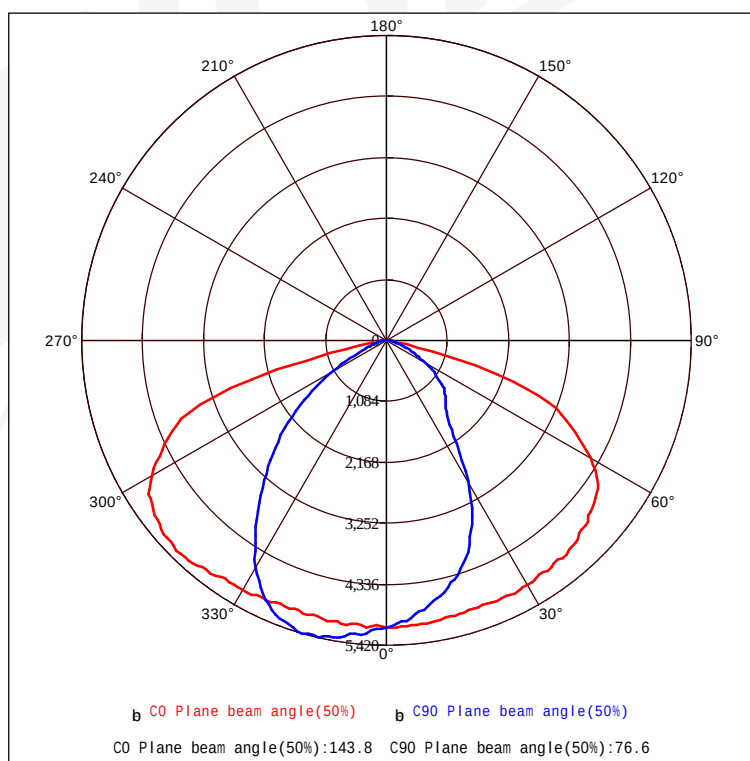


Goniophotometer Test Report

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm						
Lamp Name: LED STREET LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPSTL-200A01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPSTL-200A01		Peak Value(cd)	5429.8	Efficiency(lm/w)	89.7
Nominal P(w)		1.0	Position	270.0,13.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	13674.372	Down(C0-C180)	44.2
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)	55.8

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

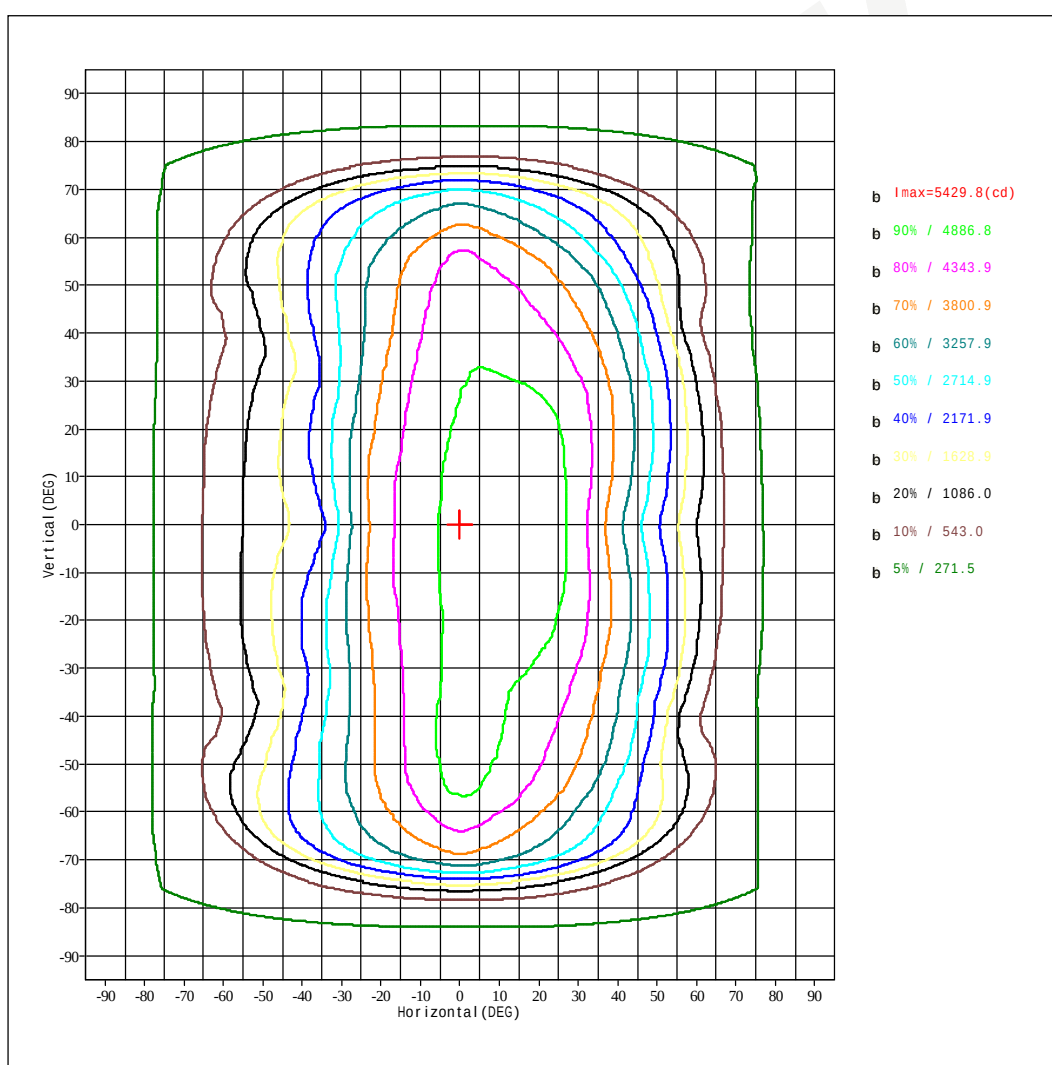
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
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): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

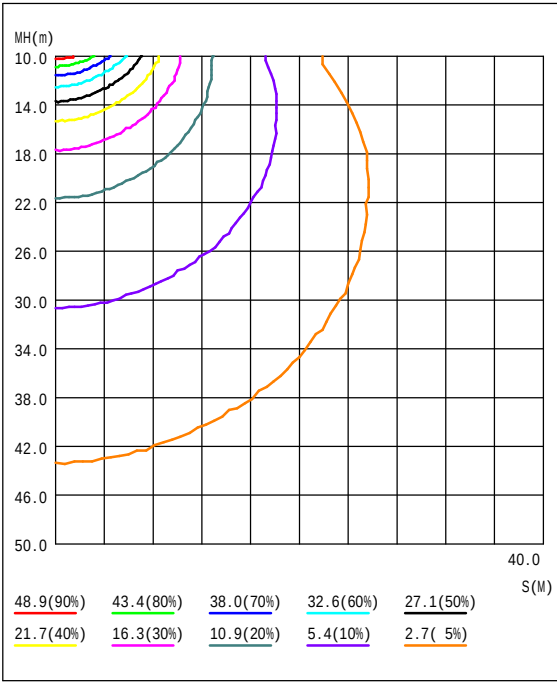
Humidity(%): 60

Date: 2023-5-21

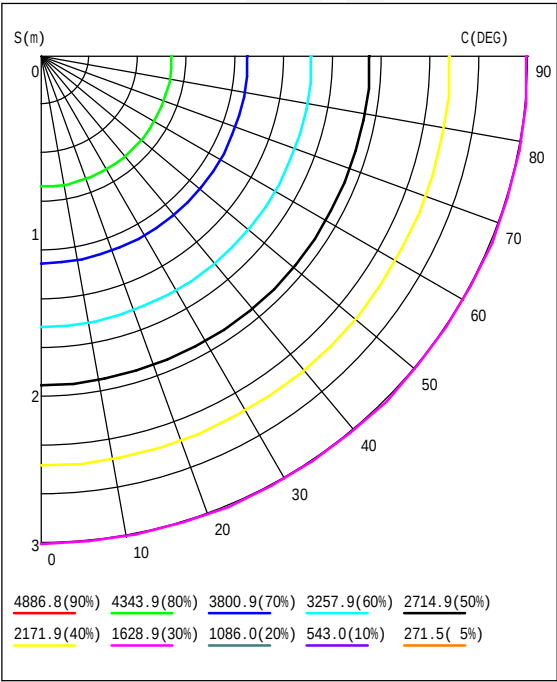
Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-5-21

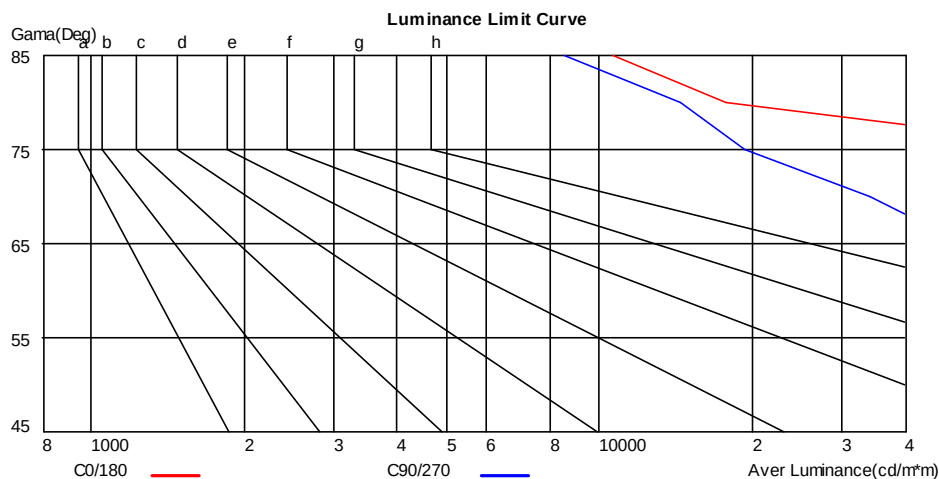
Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m ² m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	483358.0	472926.1	459751.1	411773.1	354487.4	278181.0	100173.7	17719.1	10635.8
C90	147062.1	131548.8	104799.3	77124.7	51727.4	34263.6	19314.7	14514.1	8544.9

Glare									
Glare	Class	Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zyg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

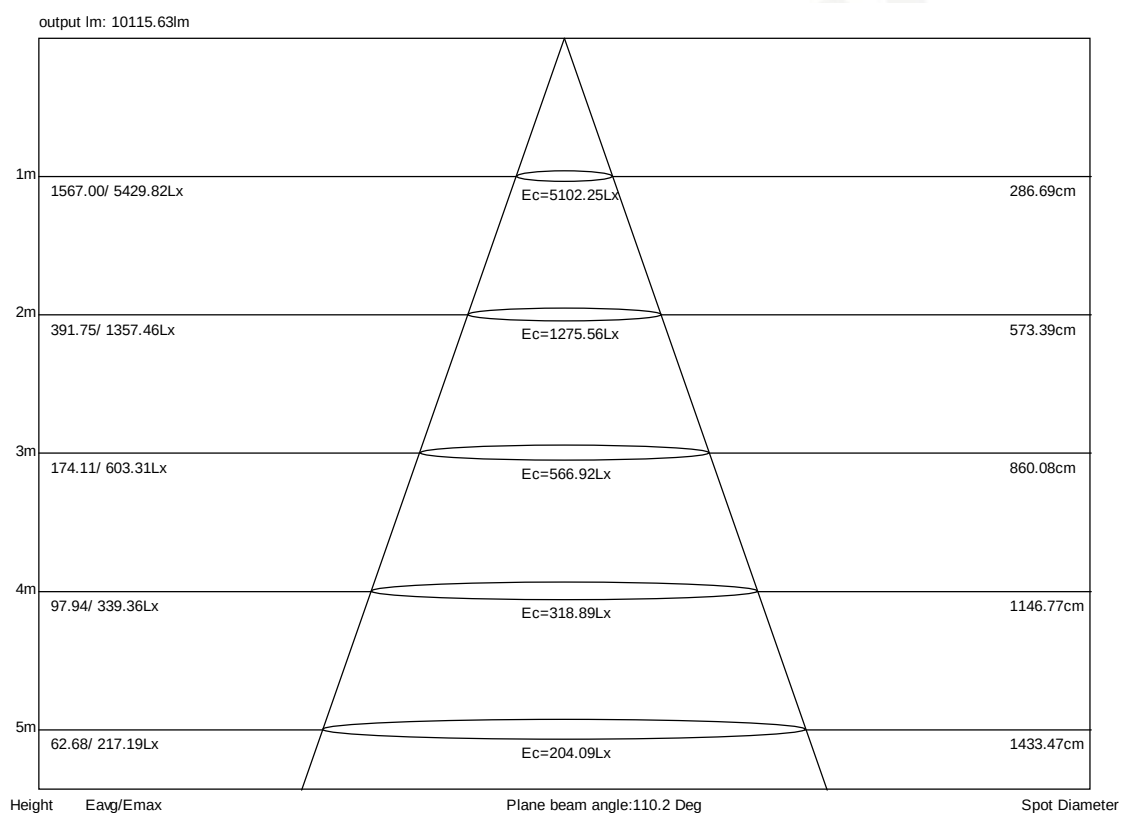
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Average Illumination



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

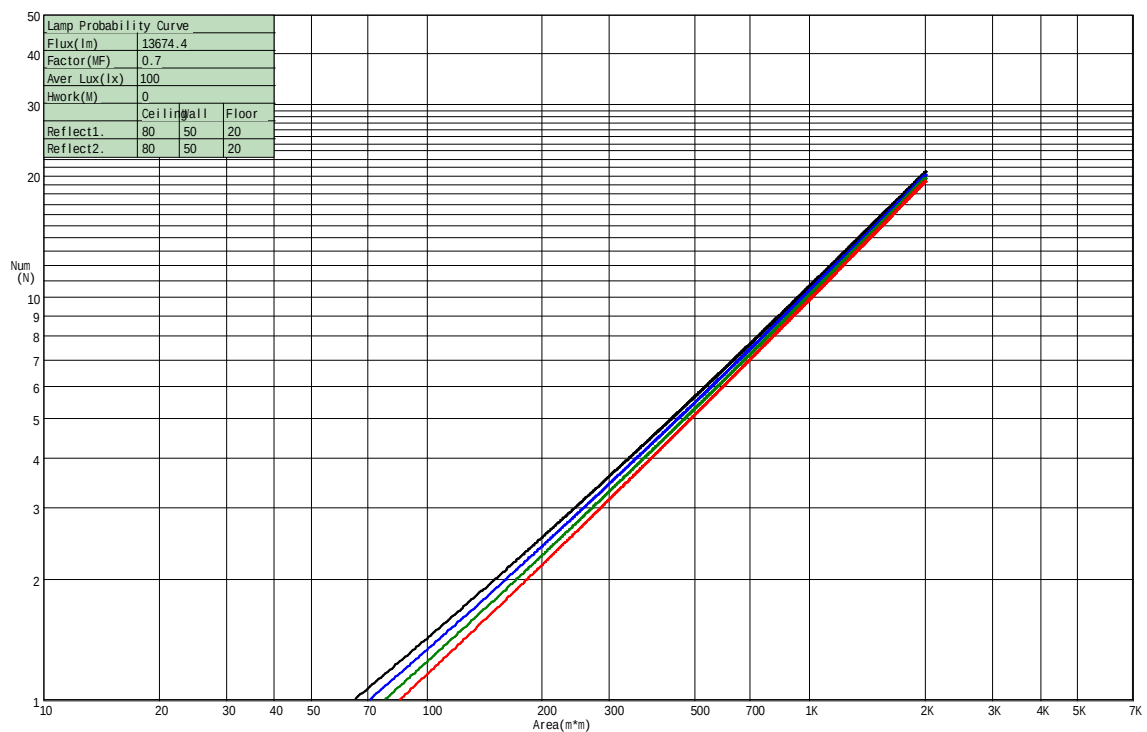
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

UF Table

Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5
Wall	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.60	57	43	34	55	42	34	52	41	33
0.80	62	47	37	60	46	37	56	44	36
1.00	66	50	39	63	49	39	59	47	37
1.25	68	52	40	66	51	39	61	48	38
1.50	70	53	40	67	51	40	61	48	38
2.00	72	54	40	68	52	39	62	48	37
2.50	72	54	39	68	51	37	61	47	35
3.00	72	54	38	68	51	36	61	46	33
4.00	73	53	36	68	50	34	60	45	31
5.00	73	53	35	68	50	33	59	44	30

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02
1	1.05	1.02	0.98	1.03	1	0.96	0.99	0.96	0.93	0.95	0.93	0.91	0.92	0.9	0.88
2	0.93	0.86	0.81	0.91	0.85	0.8	0.87	0.82	0.78	0.84	0.8	0.76	0.81	0.78	0.75
3	0.82	0.74	0.68	0.8	0.73	0.67	0.77	0.71	0.66	0.75	0.69	0.65	0.72	0.68	0.64
4	0.73	0.64	0.58	0.71	0.63	0.57	0.69	0.62	0.57	0.67	0.61	0.56	0.64	0.59	0.55
5	0.65	0.56	0.5	0.64	0.56	0.5	0.62	0.55	0.49	0.6	0.53	0.49	0.58	0.52	0.48
6	0.59	0.5	0.44	0.58	0.49	0.43	0.56	0.48	0.43	0.54	0.48	0.43	0.53	0.47	0.42
7	0.53	0.45	0.39	0.52	0.44	0.38	0.51	0.43	0.38	0.49	0.43	0.38	0.48	0.42	0.38
8	0.48	0.4	0.34	0.48	0.4	0.34	0.46	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34
9	0.45	0.36	0.31	0.44	0.36	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.41	0.35	0.3
10	0.41	0.33	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.32	0.28	0.38	0.32	0.28

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Wall Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.28	0.16	0.05	0.27	0.16	0.05	0.26	0.15	0.05	0.25	0.14	0.05	0.24	0.14	0.04
2	0.27	0.15	0.05	0.26	0.15	0.04	0.25	0.14	0.04	0.24	0.14	0.04	0.23	0.13	0.04
3	0.25	0.14	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04
4	0.24	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.04	0.22	0.12	0.03	0.21	0.11	0.03
5	0.22	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.1	0.03
6	0.21	0.1	0.03	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03
7	0.19	0.1	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03
8	0.18	0.09	0.02	0.18	0.09	0.02	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02
9	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
10	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02	0.15	0.07	0.02

Ceiling Cavity Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0.19	0.19	0.19	0.16	0.16	0.16	0.11	0.11	0.11	0.06	0.06	0.06	0.02	0.02	0.02
1	0.18	0.16	0.14	0.15	0.13	0.12	0.1	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.17	0.13	0.1	0.15	0.11	0.09	0.1	0.08	0.06	0.06	0.05	0.04	0.02	0.01	0.01
3	0.16	0.11	0.08	0.14	0.1	0.07	0.1	0.07	0.05	0.05	0.04	0.03	0.02	0.01	0.01
4	0.15	0.1	0.06	0.13	0.09	0.05	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.15	0.09	0.05	0.13	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.13	0.07	0.03	0.11	0.06	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.01	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.03	0.08	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.1	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.12	0.06	0.02	0.1	0.05	0.02	0.07	0.04	0.01	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	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	5080	4980	4938	4971	5075	5227	5260	5223	0-5	122	122
10	5084	4782	4670	4844	5093	5322	5338	5282	5-10	363	485
15	5032	4636	4434	4682	5079	5331	5410	5290	10-15	596	1080
20	4986	4429	4097	4446	5063	5289	5330	5307	15-20	812	1892
25	5024	4095	3543	4225	5092	5194	5050	5184	20-25	1001	2893
30	5036	3774	2801	3856	5119	5011	4599	5054	25-30	1150	4044
35	4989	3292	2017	3438	5145	4702	3995	4856	30-35	1244	5288
40	4946	2718	1635	3005	5227	4361	3361	4450	35-40	1296	6584
45	4834	2170	1471	2447	5270	3882	2788	4046	40-45	1311	7895
50	4729	1708	1315	1960	5218	3316	2229	3482	45-50	1285	9179
55	4598	1316	1048	1515	5060	2744	1657	2848	50-55	1217	10396
60	4118	930	771	1046	4750	1979	1061	2155	55-60	1088	11484
65	3545	544	517	655	4297	855	582	1024	60-65	883	12367
70	2782	338	343	354	3635	349	327	359	65-70	645	13012
75	1002	208	193	226	1771	171	194	159	70-75	416	13428
80	177	145	145	155	248	97.4	124	85.8	75-80	145	13573
85	106	105	85.4	108	94	63.7	72.3	56.9	80-85	60.7	13634
90	87.8	82.7	72	83.4	65.8	47.1	44.5	41.7	85-90	40.6	13674
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): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 883.0mA P: 195.24W PF: 0.997 Test LM: 17513.03lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200A01	Lamp Spec:	Shape Size:
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	5080	5036	4991	4966	4947	4945	4960	4982	5029	5075	5141	5210	5238	5253	5252	5236	5208	5143
10.0	5084	4952	4815	4745	4694	4708	4787	4872	4984	5093	5193	5297	5328	5335	5326	5300	5260	5170
15.0	5032	4859	4679	4569	4478	4488	4601	4725	4905	5079	5189	5303	5357	5393	5384	5330	5262	5145
20.0	4986	4742	4490	4320	4169	4173	4331	4513	4793	5063	5162	5264	5302	5321	5325	5314	5272	5126
25.0	5024	4618	4197	3914	3664	3692	4001	4320	4713	5092	5137	5183	5147	5081	5079	5140	5166	5094
30.0	5036	4484	3912	3454	3014	3031	3509	3994	4566	5119	5072	5023	4876	4689	4698	4905	5052	5044
35.0	4989	4246	3477	2873	2295	2328	2972	3625	4398	5145	4951	4750	4470	4150	4184	4574	4871	4931
40.0	4946	3971	2961	2362	1872	1934	2555	3248	4255	5227	4848	4456	4033	3580	3600	4093	4505	4729
45.0	4834	3668	2462	1941	1624	1684	2127	2756	4035	5270	4663	4034	3523	3027	3063	3633	4132	4489
50.0	4729	3408	2039	1580	1401	1457	1749	2317	3793	5218	4386	3524	2959	2466	2503	3071	3619	4184
55.0	4598	3162	1675	1228	1107	1150	1362	1903	3509	5060	4047	2997	2387	1895	1918	2457	3039	3832
60.0	4118	2723	1279	878	806	831	956	1452	3130	4750	3538	2282	1678	1262	1300	1796	2370	3259
65.0	3545	2232	872	535	523	547	610	1053	2703	4297	2791	1232	766	642	679	879	1300	2442
70.0	2782	1712	605	339	342	345	350	713	2200	3635	2198	709	342	332	334	349	624	1722
75.0	1002	654	294	203	196	200	215	395	1095	1771	1071	346	178	189	186	170	251	633
80.0	177	163	149	145	145	147	152	165	207	248	182	114	106	118	116	98.4	95.8	137
85.0	106	106	105	98.4	89.7	90.5	101	107	100	94	80.7	67	66.5	70.4	68.9	61.9	62.3	84.7
90.0	87.8	85.5	83.3	79.2	74.3	74.5	79.7	81.5	73.5	65.8	57.6	49.2	46.2	45	43.9	42.6	46.8	67.6
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)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-5-21

Remark: