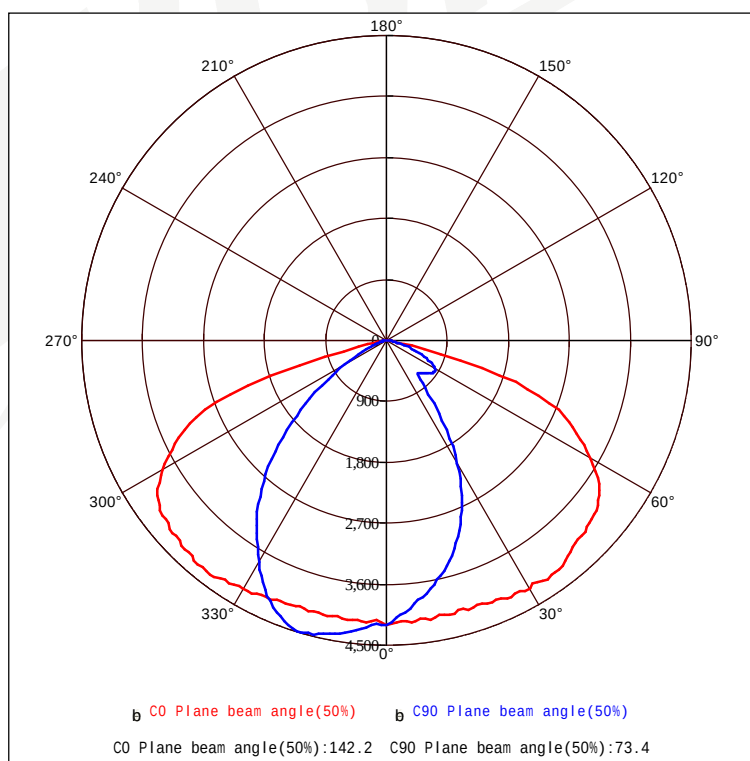


Goniophotometer Test Report

Measured Para U: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm						
Lamp Name: LED STREET LIGHT			Lamp Type: Class I		Weight(kg):	
Lamp ID: LPSTL-150A01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPSTL-150A01		Peak Value(cd)	4506.7	Efficiency(lm/w)	90.1
Nominal P(w)		1.0	Position	270.0,16.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	13353.72	Down(C0-C180)	44.5
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)	55.5

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

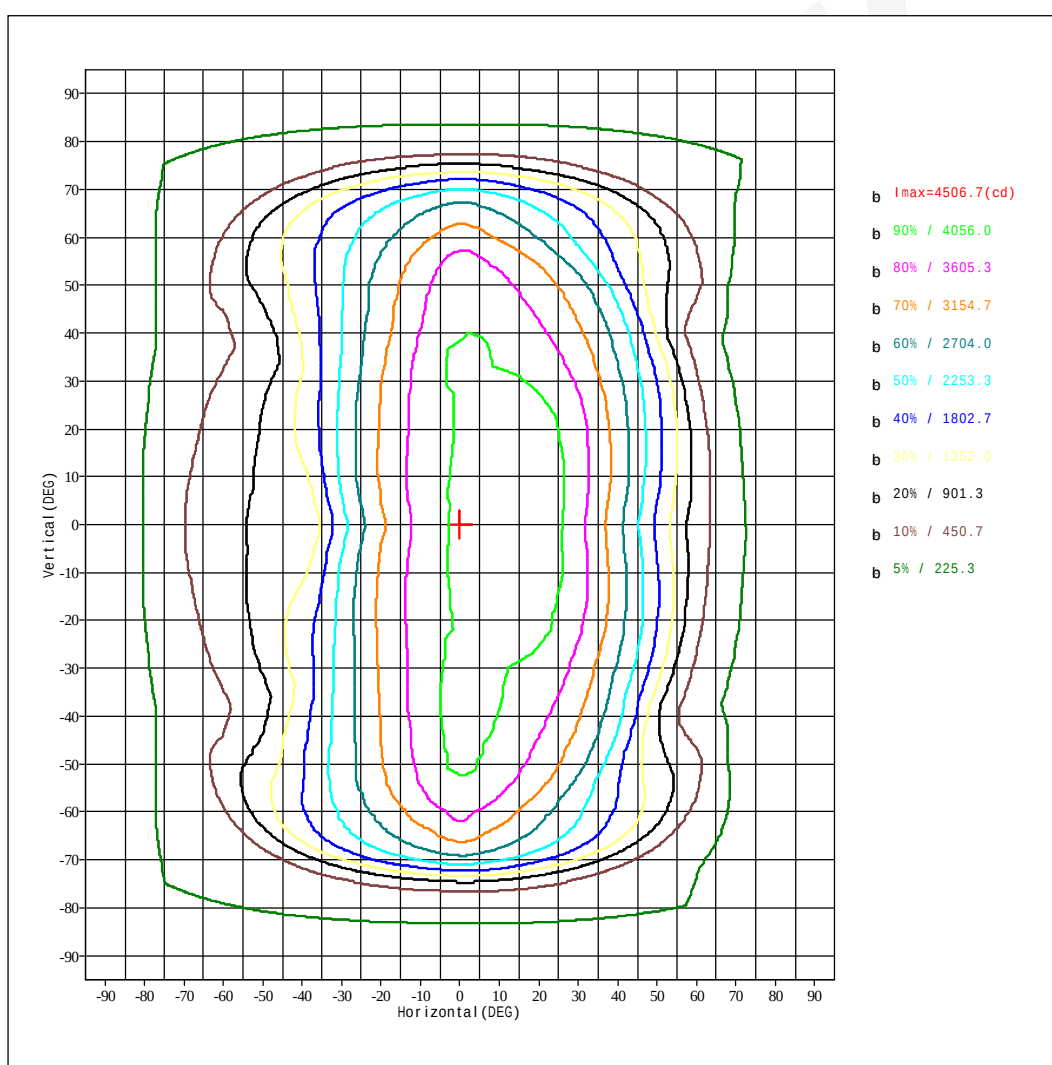
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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

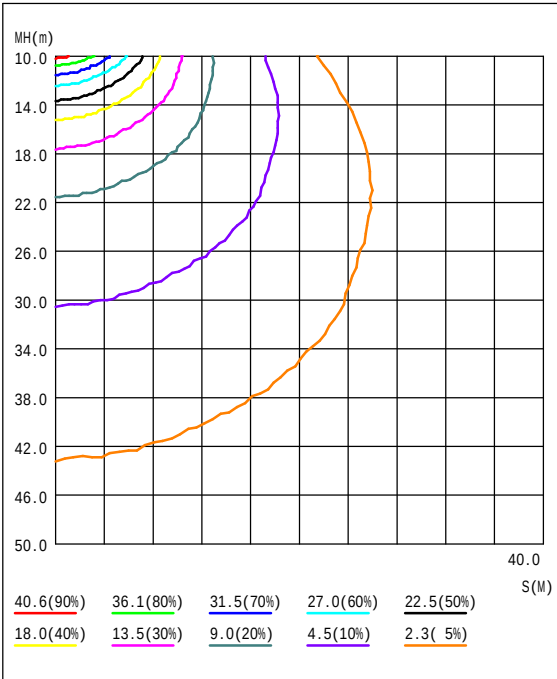
Humidity(%): 60

Date: 2023-5-21

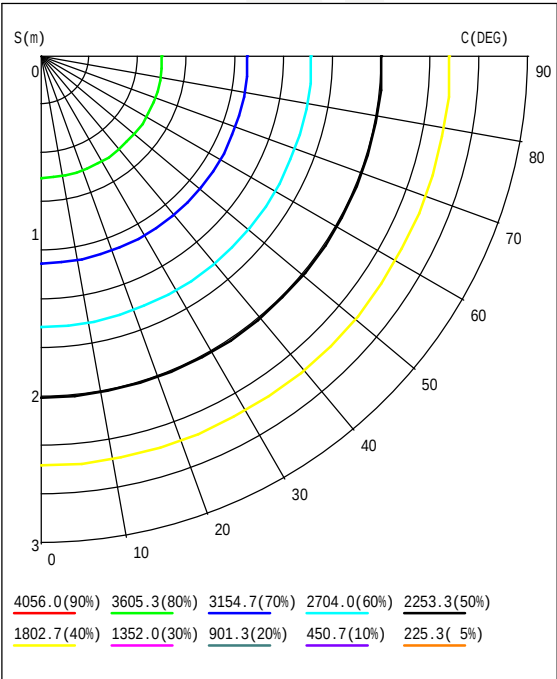
Remark:

Measured Para U: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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

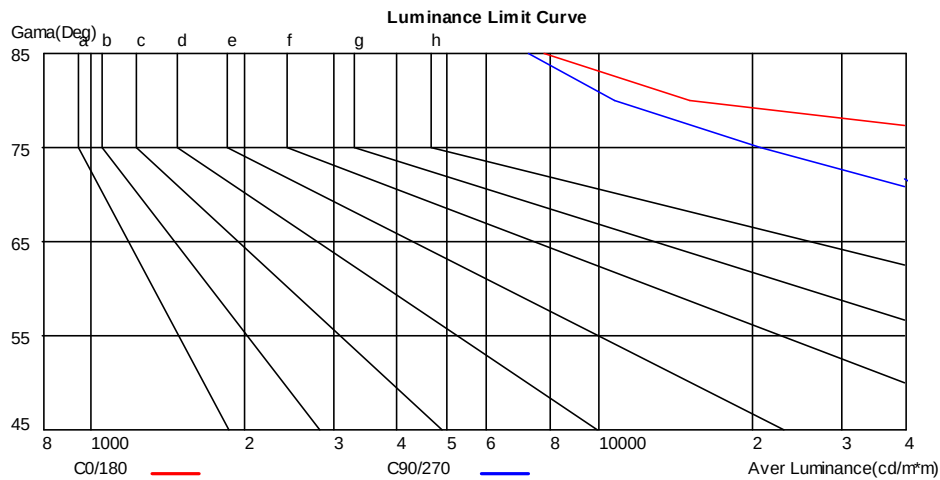
Remark:

Measured Para U: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m²m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	408895.5	398508.6	381601.2	344325.0	299899.4	229708.1	95117.3	15101.4	7814.6
C90	69626.0	77008.2	83350.8	81306.9	67205.2	45523.7	20834.2	10718.8	7270.8

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

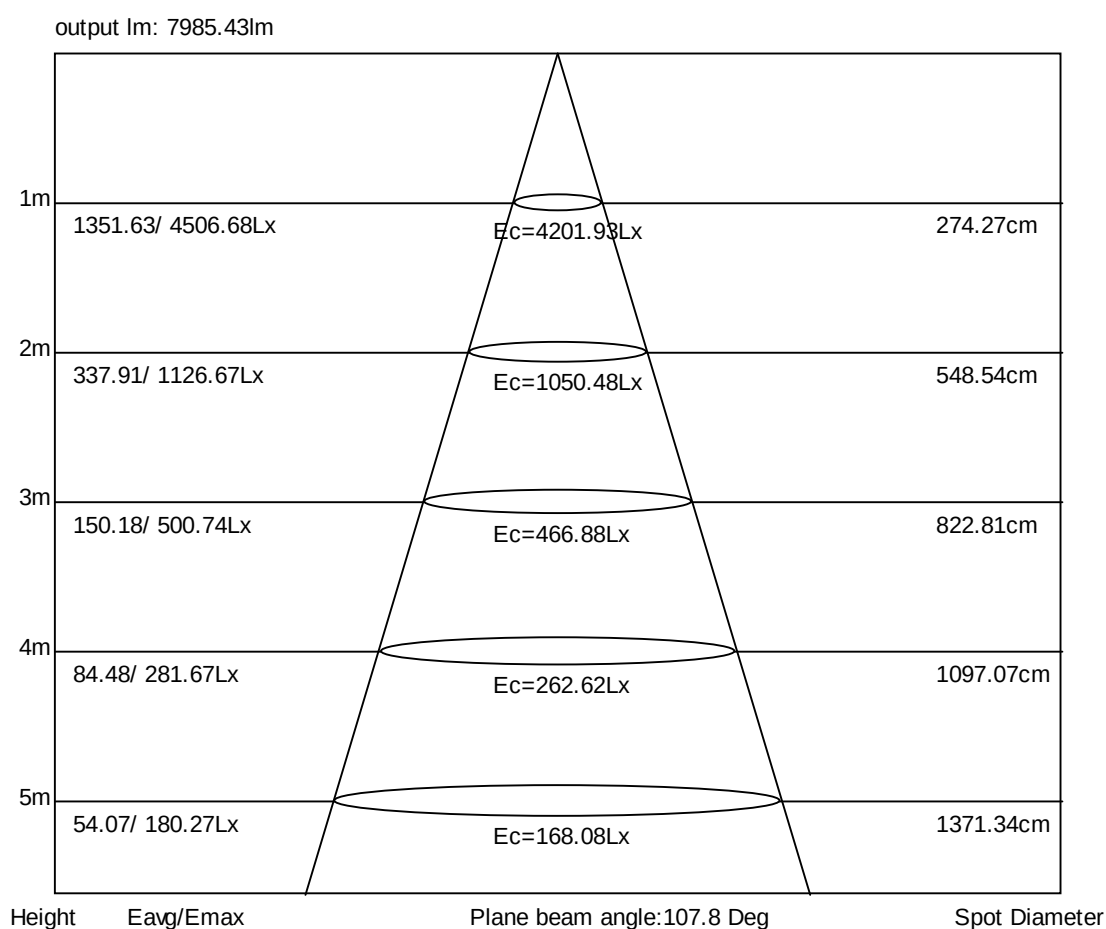
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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

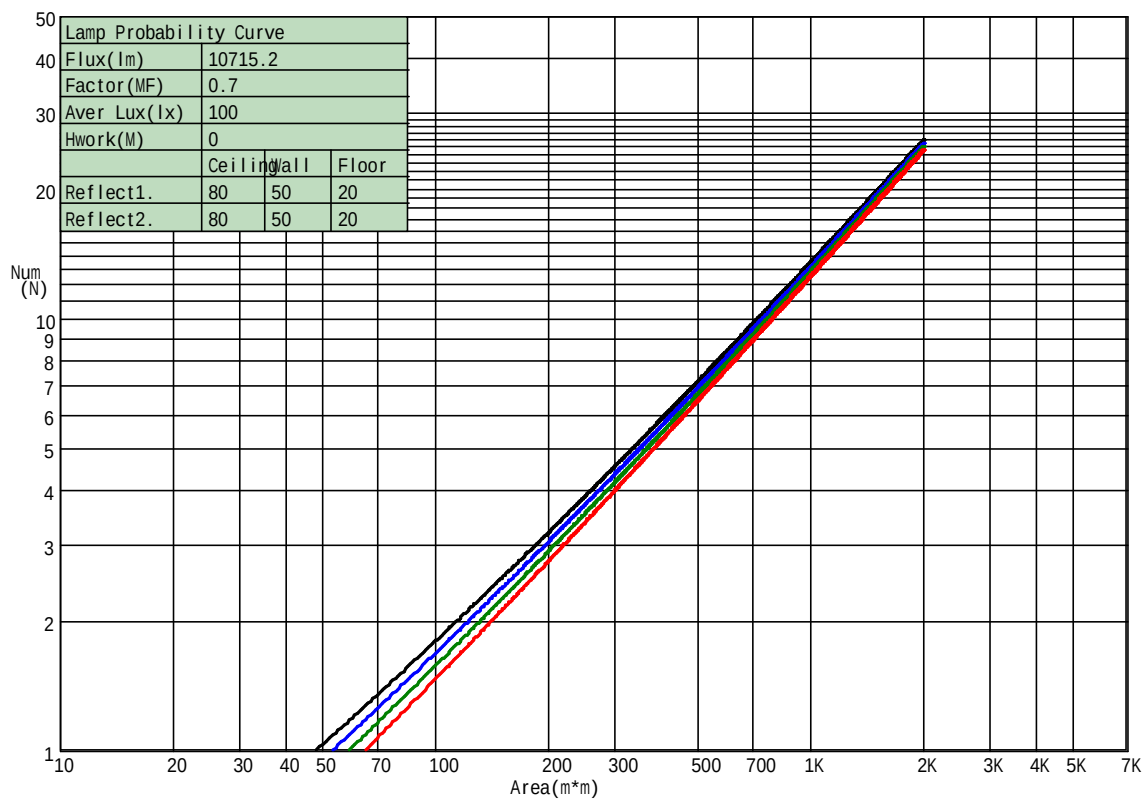
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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: 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: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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	58	44	36	56	43	35	53	42	35
0.80	63	49	39	61	48	38	58	46	37
1.00	67	52	41	65	50	40	60	48	39
1.25	70	54	42	67	52	41	62	49	40
1.50	71	55	42	68	53	41	62	50	39
2.00	73	56	42	69	54	41	63	50	39
2.50	73	55	40	69	53	39	62	48	36
3.00	73	55	39	69	52	38	62	47	35
4.00	73	54	37	69	51	36	61	46	33
5.00	74	54	36	69	51	34	60	45	31

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	1.06	1.02	0.99	1.04	1	0.97	0.99	0.96	0.94	0.95	0.93	0.91	0.92	0.9	0.88
2	0.93	0.87	0.82	0.91	0.86	0.81	0.88	0.83	0.79	0.85	0.81	0.77	0.82	0.78	0.75
3	0.82	0.75	0.69	0.81	0.74	0.68	0.78	0.72	0.67	0.75	0.7	0.66	0.73	0.68	0.65
4	0.73	0.65	0.59	0.72	0.64	0.58	0.7	0.63	0.58	0.67	0.62	0.57	0.65	0.6	0.56
5	0.66	0.57	0.51	0.65	0.57	0.51	0.63	0.56	0.5	0.61	0.55	0.5	0.59	0.53	0.49
6	0.59	0.51	0.45	0.59	0.5	0.44	0.57	0.49	0.44	0.55	0.49	0.44	0.54	0.48	0.43
7	0.54	0.46	0.4	0.53	0.45	0.39	0.52	0.44	0.39	0.5	0.44	0.39	0.49	0.43	0.39
8	0.49	0.41	0.35	0.49	0.41	0.35	0.47	0.4	0.35	0.46	0.4	0.35	0.45	0.39	0.35
9	0.45	0.37	0.32	0.45	0.37	0.32	0.44	0.37	0.32	0.43	0.36	0.32	0.42	0.36	0.31
10	0.42	0.34	0.29	0.41	0.34	0.29	0.4	0.34	0.29	0.39	0.33	0.29	0.39	0.33	0.29

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: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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	0.27	0.16	0.05	0.27	0.15	0.05	0.25	0.15	0.05	0.24	0.14	0.04	0.23	0.13	0.04
2	0.27	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.23	0.13	0.04
3	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
4	0.23	0.12	0.04	0.23	0.12	0.04	0.22	0.12	0.03	0.21	0.11	0.03	0.2	0.11	0.03
5	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03
6	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03
7	0.19	0.09	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	0.07	0.02	0.15	0.07	0.02	0.14	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	0.14	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	0.09	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	0.04	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: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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	4186	4105	3941	4079	4140	4342	4302	4285	0-5	99.9	99.9
10	4135	3947	3692	3909	4122	4384	4398	4338	5-10	297	397
15	4107	3772	3423	3764	4158	4415	4468	4418	10-15	486	883
20	4170	3539	3052	3601	4153	4422	4397	4435	15-20	663	1546
25	4226	3336	2594	3360	4177	4281	4140	4343	20-25	816	2361
30	4203	3074	2047	3102	4233	4105	3720	4210	25-30	936	3297
35	4217	2682	1376	2735	4317	3875	3302	3957	30-35	1014	4311
40	4152	2257	799	2345	4325	3475	2815	3584	35-40	1047	5358
45	4089	1783	696	1946	4266	3045	2267	3177	40-45	1040	6398
50	3985	1297	770	1510	4183	2537	1673	2721	45-50	1009	7408
55	3816	853	834	1050	4090	1835	1087	2170	50-55	939	8347
60	3443	558	813	662	3807	839	666	1330	55-60	810	9157
65	2999	336	672	356	3320	312	293	437	60-65	621	9777
70	2297	249	455	257	2555	119	171	143	65-70	476	10254
75	951	191	208	191	794	64.5	93.3	65.5	70-75	296	10549
80	151	140	107	140	103	39.7	56.2	37.3	75-80	95.3	10645
85	78.1	90.1	72.7	90.3	49.3	34.8	33.2	29.7	80-85	40.7	10685
90	66.9	70.9	57.7	68.4	53	34.9	34.1	30.2	85-90	29.9	10715
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: 217.1V I: 684.0mA P: 148.21W PF: 0.998 Test LM: 13353.72lm		
Lamp Name: LED STREET LIGHT	Lamp Type: Class I	Weight(kg):
Lamp ID: LPSTL-150A01	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	4186	4150	4114	4051	3977	3971	4033	4085	4113	4140	4228	4320	4329	4310	4298	4290	4274	4229
10.0	4135	4053	3968	3864	3748	3739	3838	3932	4029	4122	4237	4356	4389	4395	4385	4358	4316	4224
15.0	4107	3960	3809	3657	3499	3498	3652	3807	3986	4158	4271	4387	4432	4456	4457	4434	4384	4243
20.0	4170	3894	3608	3379	3158	3172	3421	3661	3911	4153	4270	4392	4414	4402	4405	4423	4406	4286
25.0	4226	3837	3433	3092	2756	2761	3109	3449	3820	4177	4223	4270	4235	4171	4184	4277	4331	4277
30.0	4203	3709	3197	2737	2272	2278	2756	3226	3739	4233	4177	4119	3978	3804	3827	4049	4209	4206
35.0	4217	3545	2850	2253	1661	1673	2289	2908	3625	4317	4124	3924	3687	3427	3445	3742	3986	4103
40.0	4152	3323	2464	1778	1117	1137	1837	2561	3459	4325	3953	3568	3259	2959	2983	3332	3647	3904
45.0	4089	3080	2035	1426	934	970	1536	2200	3251	4266	3732	3178	2790	2437	2466	2879	3277	3690
50.0	3985	2809	1591	1124	885	932	1267	1802	3014	4183	3463	2717	2254	1862	1903	2377	2859	3432
55.0	3816	2520	1177	847	838	881	979	1382	2760	4090	3103	2081	1589	1250	1324	1814	2350	3096
60.0	3443	2181	873	641	757	780	712	1006	2431	3807	2508	1164	782	704	811	1112	1561	2519
65.0	2999	1834	627	446	598	603	459	680	2023	3320	2004	641	306	297	325	390	717	1878
70.0	2297	1401	473	316	410	412	322	509	1550	2555	1489	385	136	159	165	152	379	1355
75.0	951	619	274	197	205	205	197	257	530	794	475	144	73.9	87	87.2	74.6	162	564
80.0	151	146	141	129	114	114	130	136	119	103	75.4	46.7	45.1	52.6	52	43.5	49.7	101
85.0	78.1	83.4	88.8	84.4	76.5	76.6	84.5	85.8	67.2	49.3	42.9	36.3	34.3	33.6	32.4	30.8	35	56.9
90.0	66.9	68.7	70.5	66.6	60.6	60.1	64.9	66.7	59.7	53	45.1	36.9	34.7	34.3	33.3	31.5	34.2	50.9
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: 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: