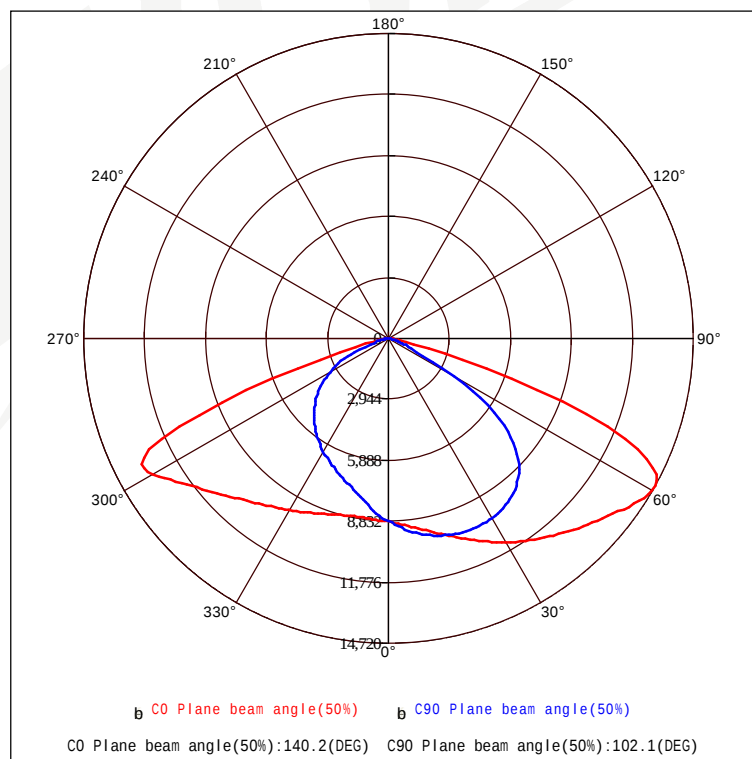


Goniophotometer Test Report

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm						
Lamp Name: LED STREET LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPSTL-200W			Lamp Spec: LPSTL-200W		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPSTL-200W		Peak Value(cd)	14717.0	Efficiency(lm/w)	175.1
Nominal P(w)		1.0	Position	0.0,60.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	34715.825	Down(C0-C180)	56.3
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)	43.7

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

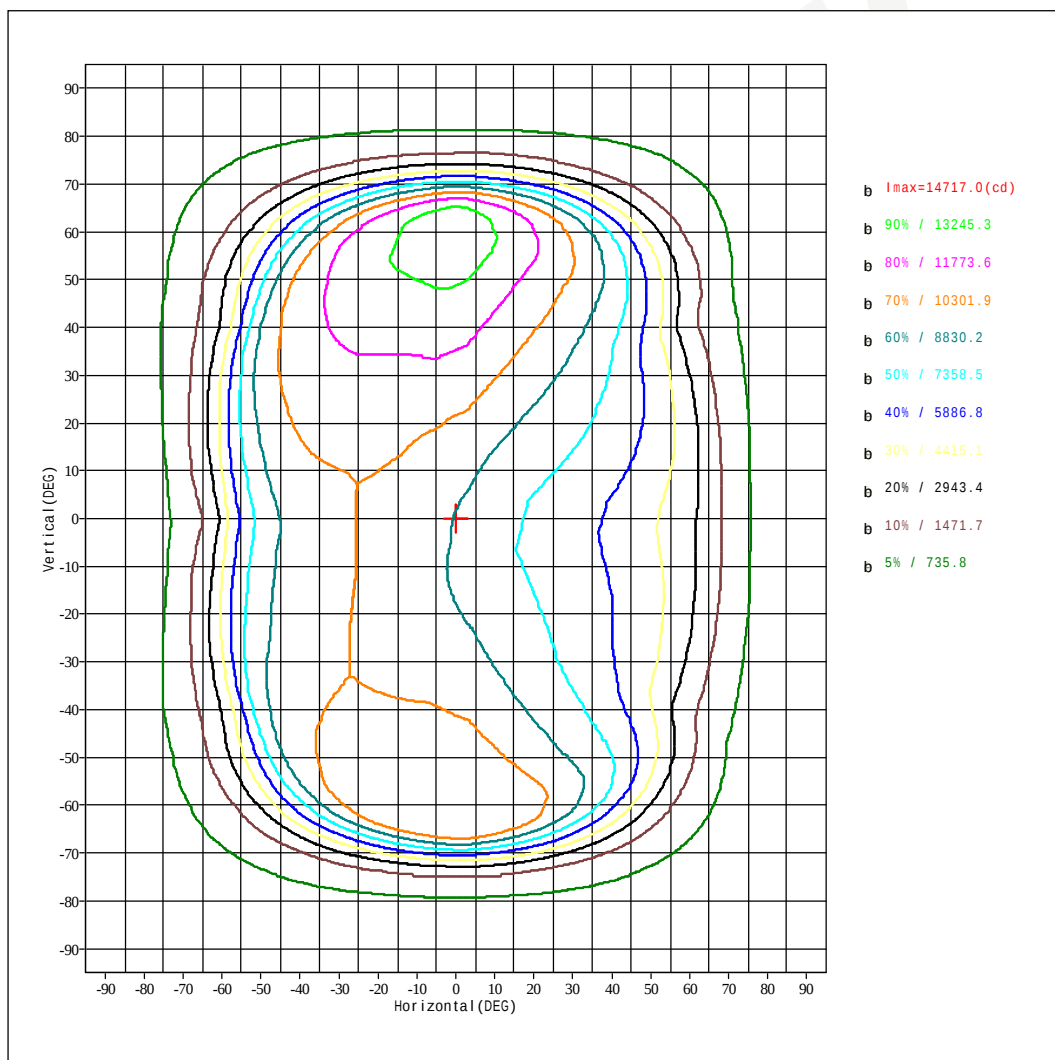
Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

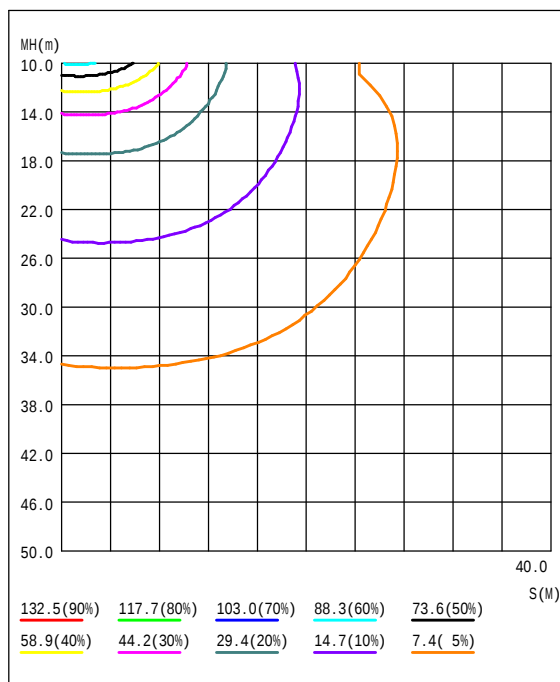
Humidity(%): 60

Date: 2026-1-30

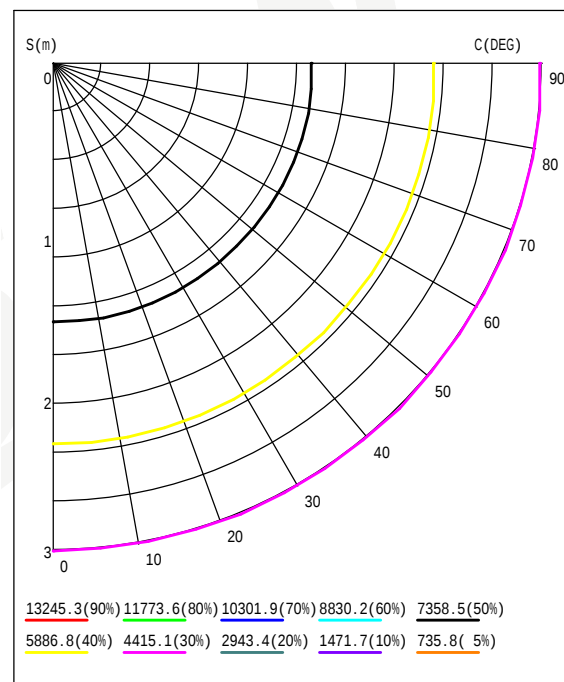
Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Spatial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-30

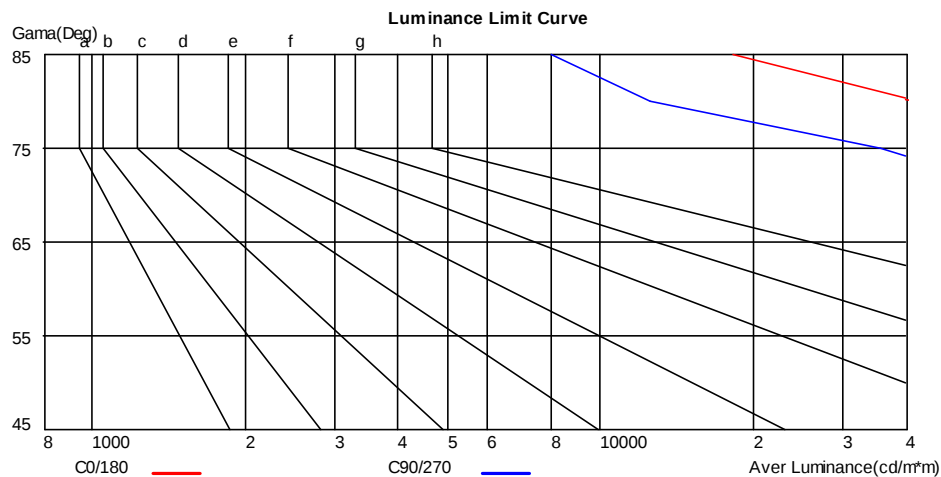
Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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	1301384.1	1359015.5	1422368.1	1471699.3	1352450.5	827811.4	250371.4	42034.7	18317.7
C90	883708.1	775900.8	601365.2	331777.5	109423.9	68525.5	35770.5	12510.7	7991.9

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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

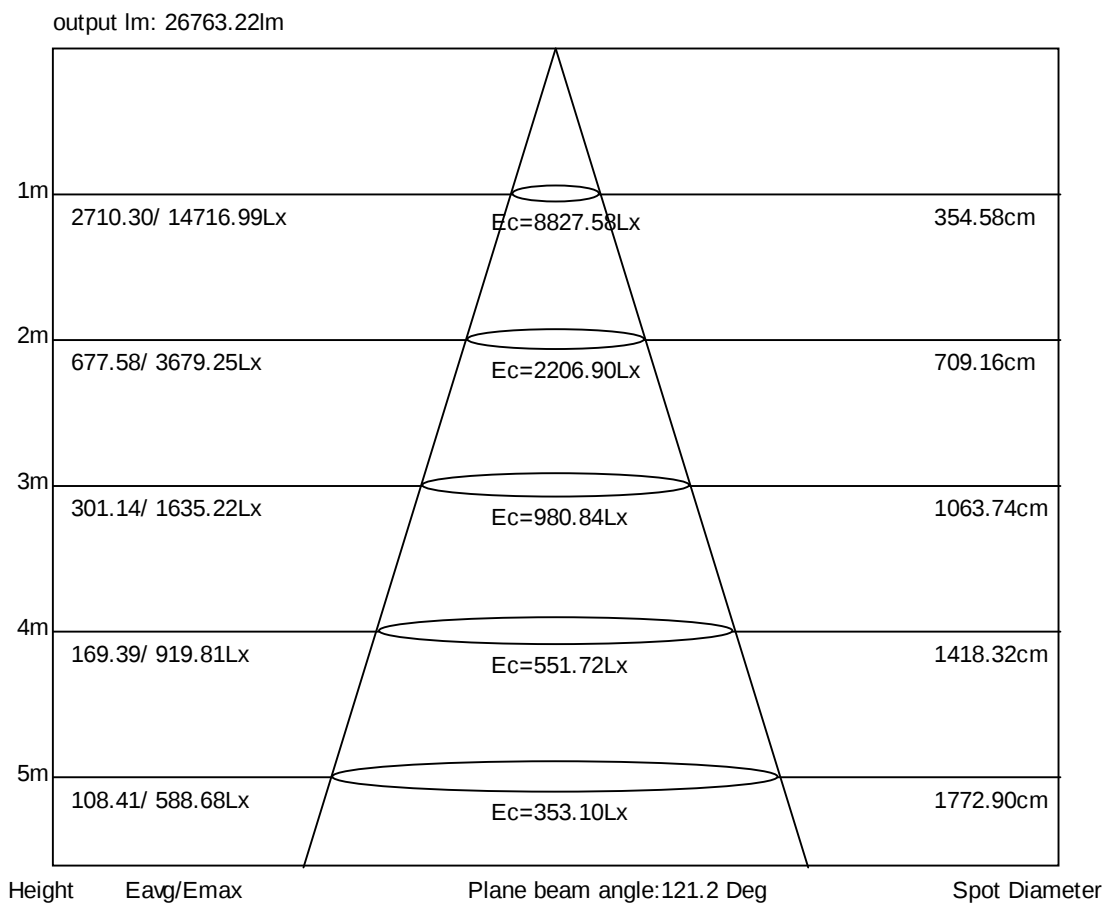
Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

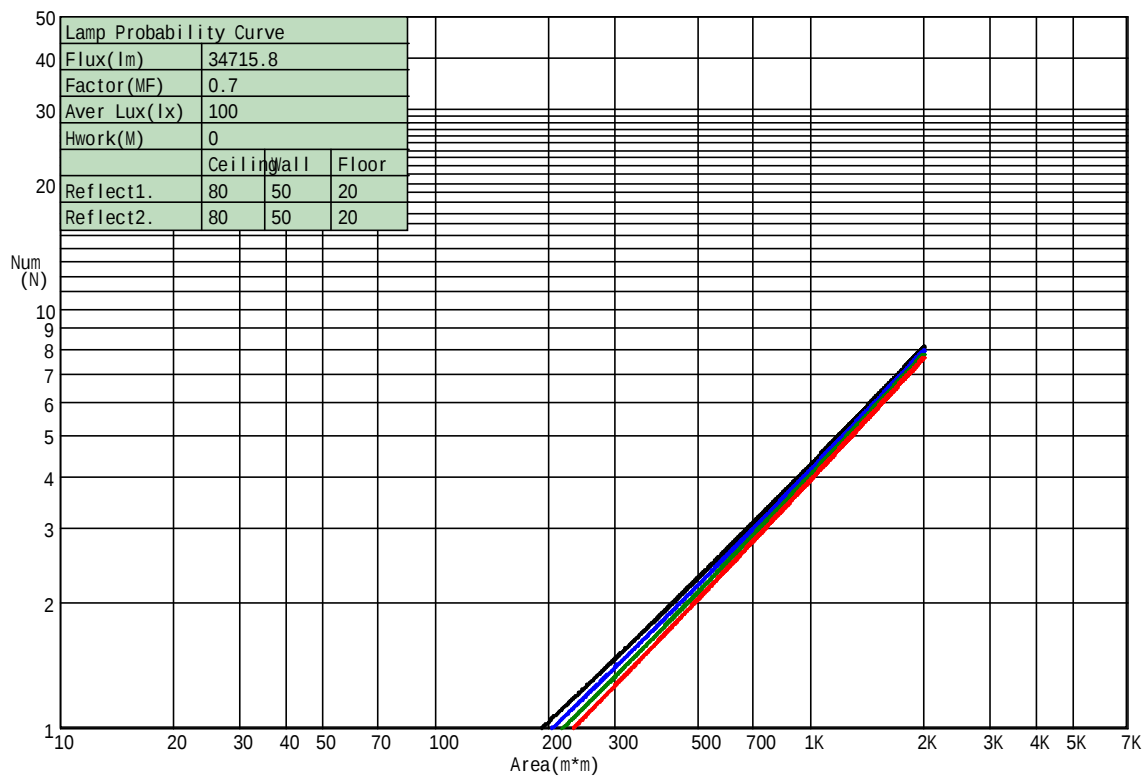
Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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	54	40	31	53	39	30	50	38	30
0.80	62	47	37	60	46	36	56	44	36
1.00	67	51	41	64	50	40	60	48	39
1.25	70	55	43	68	53	42	62	50	41
1.50	72	56	44	69	54	43	63	51	41
2.00	73	56	43	70	54	42	64	50	40
2.50	73	55	41	70	53	39	62	49	37
3.00	73	55	39	69	52	37	61	47	35
4.00	73	53	36	68	50	34	60	45	31
5.00	72	52	34	67	49	32	58	43	28

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	1.01	0.97	1.02	0.99	0.95	0.98	0.95	0.92	0.94	0.92	0.9	0.91	0.89	0.87
2	0.91	0.84	0.78	0.89	0.83	0.77	0.85	0.8	0.76	0.82	0.78	0.74	0.79	0.75	0.72
3	0.79	0.71	0.64	0.77	0.7	0.64	0.74	0.68	0.62	0.72	0.66	0.61	0.69	0.64	0.6
4	0.69	0.6	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.57	0.51	0.61	0.55	0.51
5	0.61	0.52	0.45	0.6	0.51	0.45	0.58	0.5	0.44	0.56	0.49	0.44	0.54	0.48	0.43
6	0.54	0.45	0.39	0.54	0.45	0.38	0.52	0.44	0.38	0.5	0.43	0.38	0.48	0.42	0.37
7	0.49	0.4	0.33	0.48	0.39	0.33	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.33
8	0.44	0.35	0.29	0.44	0.35	0.29	0.42	0.35	0.29	0.41	0.34	0.29	0.4	0.33	0.29
9	0.4	0.32	0.26	0.4	0.32	0.26	0.39	0.31	0.26	0.37	0.31	0.26	0.36	0.3	0.25
10	0.37	0.29	0.23	0.36	0.29	0.23	0.35	0.28	0.23	0.34	0.28	0.23	0.33	0.27	0.23

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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	0.29	0.17	0.05	0.29	0.16	0.05	0.27	0.16	0.05	0.26	0.15	0.05	0.25	0.15	0.05
2	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.04
3	0.27	0.14	0.04	0.27	0.14	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04
4	0.25	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
5	0.24	0.12	0.03	0.23	0.12	0.03	0.22	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.2	0.1	0.03
7	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
8	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
9	0.18	0.09	0.02	0.18	0.09	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02
10	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

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	0.03	0.02	0.01	0.01
3	0.16	0.11	0.07	0.14	0.1	0.06	0.1	0.07	0.05	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.14	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	0.09	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.14	0.08	0.03	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.02	0.08	0.04	0.02	0.05	0.03	0.01	0.01	0.01	0
9	0.13	0.07	0.02	0.11	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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	9090	9207	9300	9052	8763	8283	8305	8618	0-5	211	211
10	9411	9640	9638	9287	8759	7872	7718	8451	5-10	632	843
15	9826	10049	9883	9524	8854	7606	7293	8367	10-15	1054	1897
20	10321	10420	10021	9750	9042	7434	6933	8350	15-20	1480	3377
25	10872	10735	10060	9942	9299	7293	6600	8336	20-25	1907	5284
30	11427	11004	10000	10099	9601	7147	6262	8307	25-30	2326	7610
35	11963	11218	9813	10219	9947	6964	5890	8225	30-35	2727	10337
40	12481	11353	9464	10267	10355	6711	5485	8034	35-40	3097	13434
45	13014	11344	8837	10168	10856	6358	5036	7685	40-45	3416	16850
50	13590	11102	7759	9908	11481	5862	4525	7130	45-50	3659	20509
55	14224	10491	6014	9475	12270	5158	3912	6258	50-55	3791	24300
60	14717	8874	3318	8265	13209	4105	3153	4902	55-60	3734	28034
65	13525	5099	1094	4631	12444	2510	2273	2824	60-65	3229	31264
70	8278	1983	685	1868	6693	1058	1005	1132	65-70	2122	33386
75	2504	842	358	792	1349	436	454	502	70-75	909	34295
80	420	375	125	335	283	207	223	243	75-80	269	34564
85	183	163	79.9	139	111	94.9	99	102	80-85	100	34664
90	109	87.8	81.4	86.4	80.8	78.8	64.7	66.6	85-90	51.7	34716
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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-30

Remark:

Measured Para U: 228.2V I: 871.0mA P: 198.30W PF: 0.998 Test LM: 34715.83lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-200W	Lamp Spec: LPSTL-200W	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	9090	9141	9194	9237	9280	9246	9133	9020	8890	8763	8553	8336	8291	8300	8374	8515	8669	8883
10.0	9411	9511	9615	9639	9639	9562	9403	9229	8990	8759	8371	7969	7821	7752	7878	8210	8556	8991
15.0	9826	9924	10k	9995	9920	9805	9642	9451	9147	8854	8308	7742	7503	7361	7528	8015	8527	9188
20.0	10k	10k	10k	10k	10k	9962	9839	9672	9352	9042	8338	7609	7269	7043	7243	7885	8565	9459
25.0	11k	11k	11k	11k	10k	10k	9981	9872	9580	9299	8422	7513	7066	6752	6980	7766	8613	9762
30.0	11k	11k	11k	11k	10k	10k	10k	10k	9819	9601	8527	7415	6857	6456	6709	7636	8648	10k
35.0	12k	12k	11k	11k	10k	9902	10k	10k	10k	9947	8642	7290	6612	6125	6401	7459	8634	10k
40.0	12k	12k	11k	11k	9877	9640	10k	10k	10k	10k	8761	7110	6309	5753	6043	7198	8521	11k
45.0	13k	12k	12k	11k	9385	9128	9732	10k	11k	11k	8888	6850	5924	5325	5616	6816	8268	11k
50.0	14k	13k	11k	10k	8490	8229	9203	10k	11k	11k	9023	6477	5423	4817	5095	6275	7836	11k
55.0	14k	13k	11k	9022	6993	6771	8339	9781	11k	12k	9158	5936	4749	4185	4426	5489	7130	11k
60.0	15k	12k	9513	7051	4533	4400	6642	8806	11k	13k	9226	5100	3792	3361	3536	4328	5976	10k
65.0	14k	9838	6020	3785	1970	1868	3470	5485	9026	12k	8098	3596	2432	2324	2393	2643	3995	8843
70.0	8278	5524	2672	1557	969	944	1480	2396	4582	6693	4228	1674	1041	1017	1033	1090	1913	5152
75.0	2504	1777	1024	683	464	453	650	853	1105	1349	949	536	442	450	464	486	721	1628
80.0	420	401	380	293	180	171	266	329	306	283	250	216	212	219	227	236	262	343
85.0	183	174	165	135	98	92.7	119	136	123	111	104	96.7	96.3	98.1	99.6	101	111	148
90.0	109	99.9	90.1	85.7	82.8	82.5	84.8	85.8	83.2	80.8	79.9	79	74.2	67.8	65.1	66	71.3	90.7
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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-30

Remark: