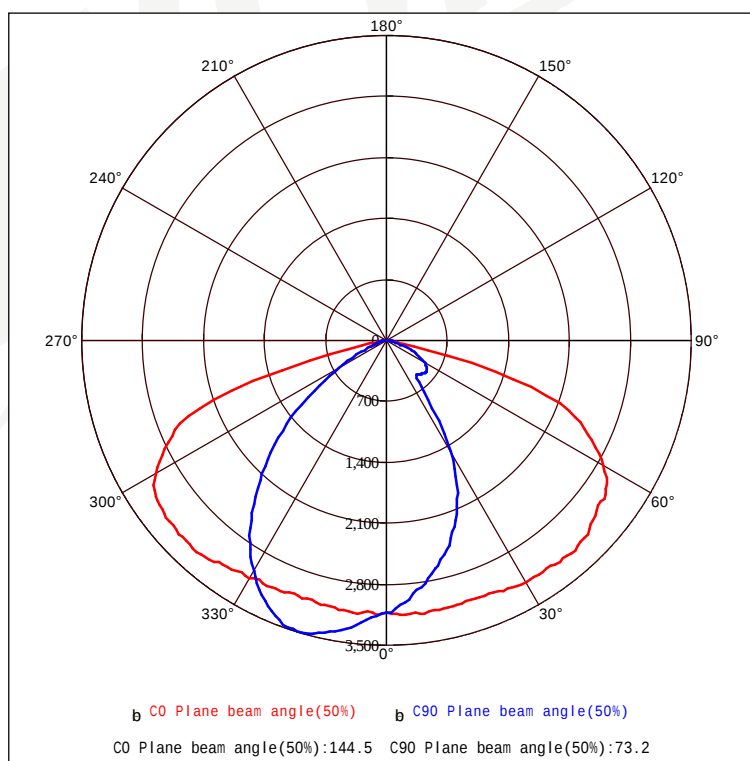


Goniophotometer Test Report

Measured Para U: 216.7V I: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm						
Lamp Name: LED STREET LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPSTL-100A01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPSTL-100A01		Peak Value(cd)	3506.2	Efficiency(lm/w)	92.2
Nominal P(w)		1.0	Position	270.0,16.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	9727.1	Down(C0-C180)	40.7
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)	59.3

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

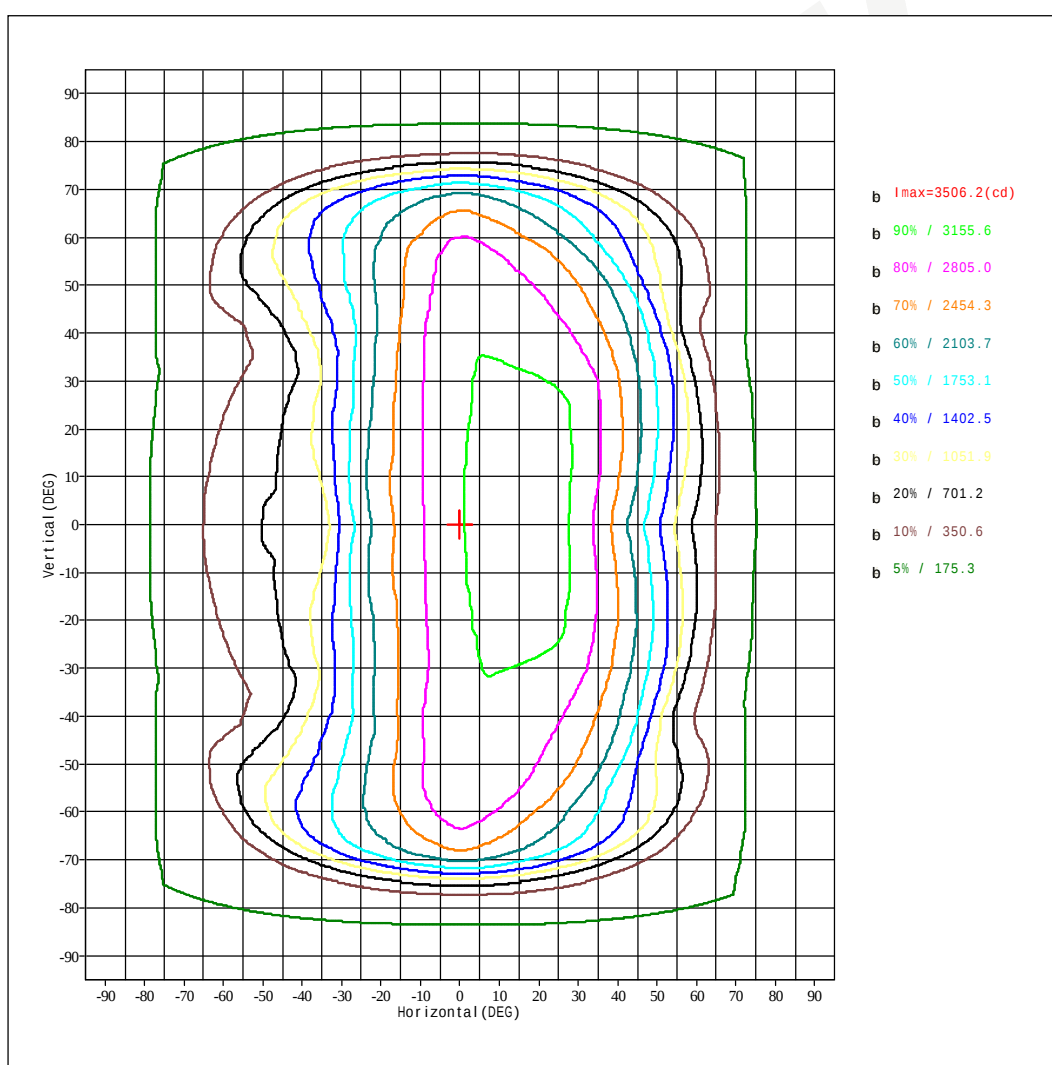
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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

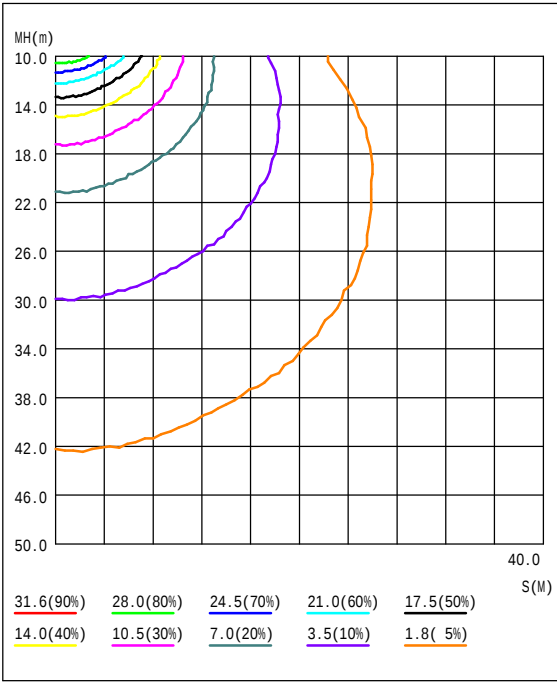
Humidity(%): 60

Date: 2023-5-21

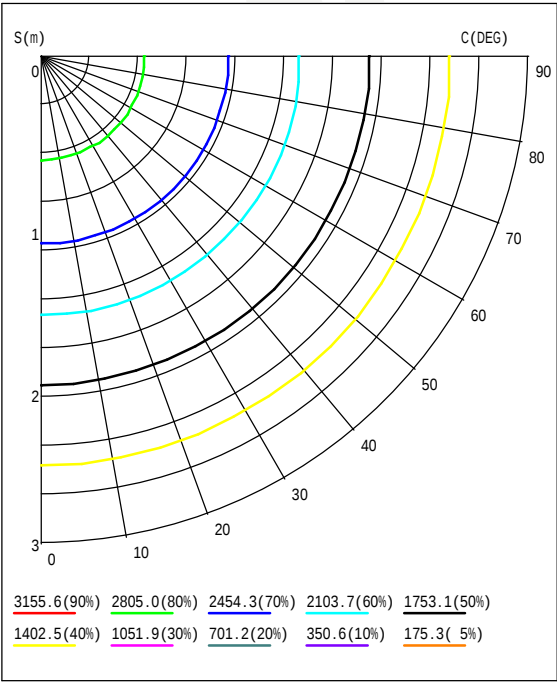
Remark:

Measured Para U: 216.7V I: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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

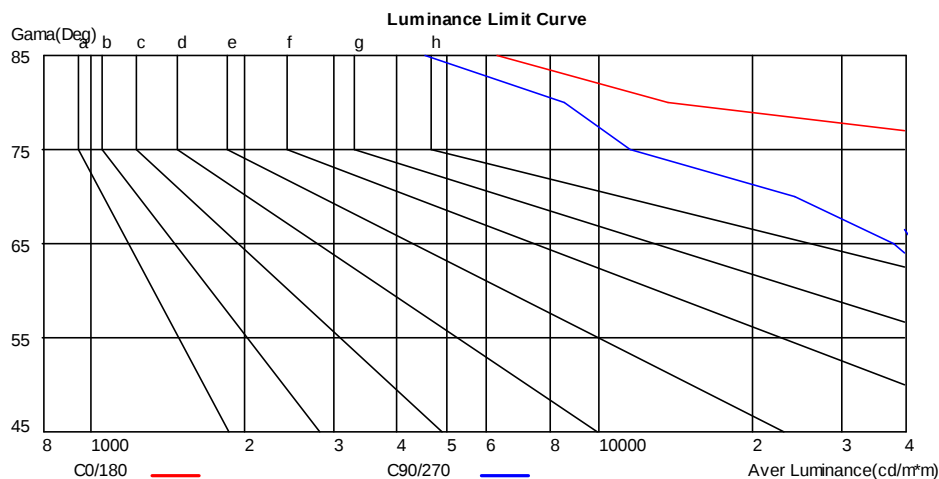
Remark:

Measured Para U: 216.7V I: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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	323146.4	311949.8	304530.5	284836.0	252370.8	203628.5	82965.4	13707.4	6294.1
C90	55559.7	57881.5	56500.9	48652.3	37935.0	24259.2	11557.5	8534.4	4549.6

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: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

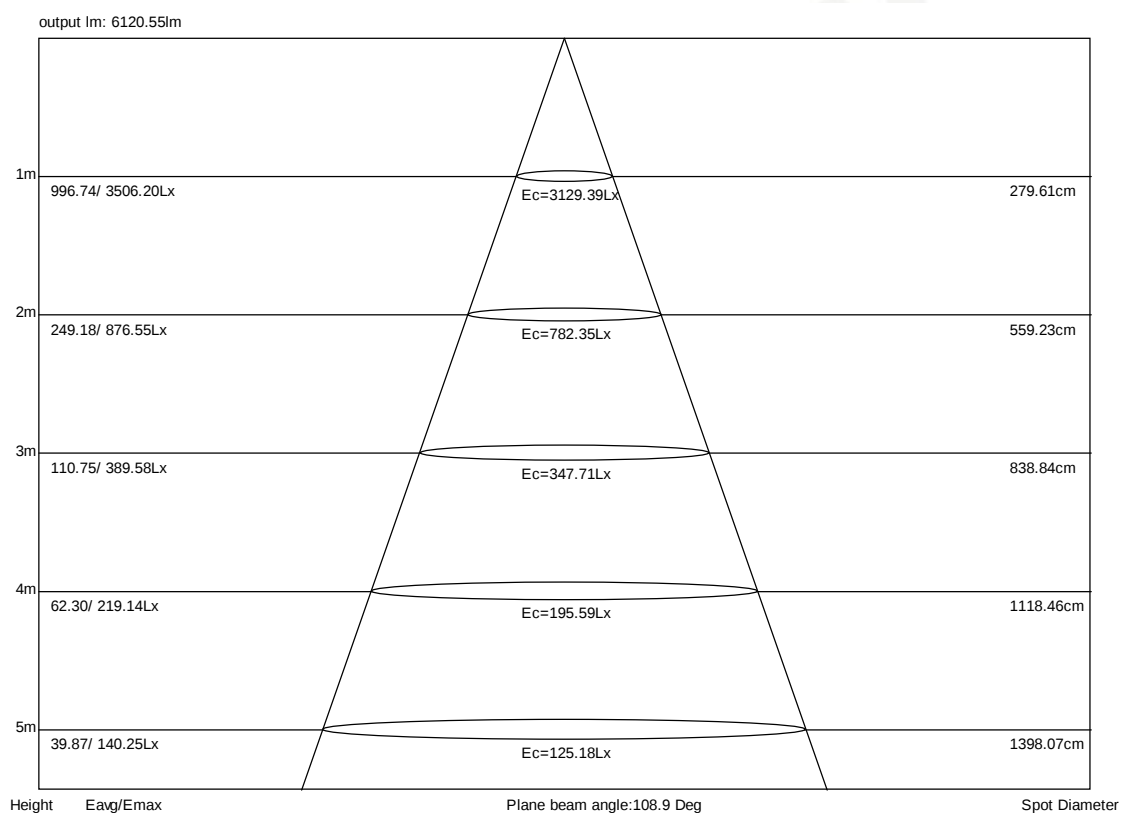
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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

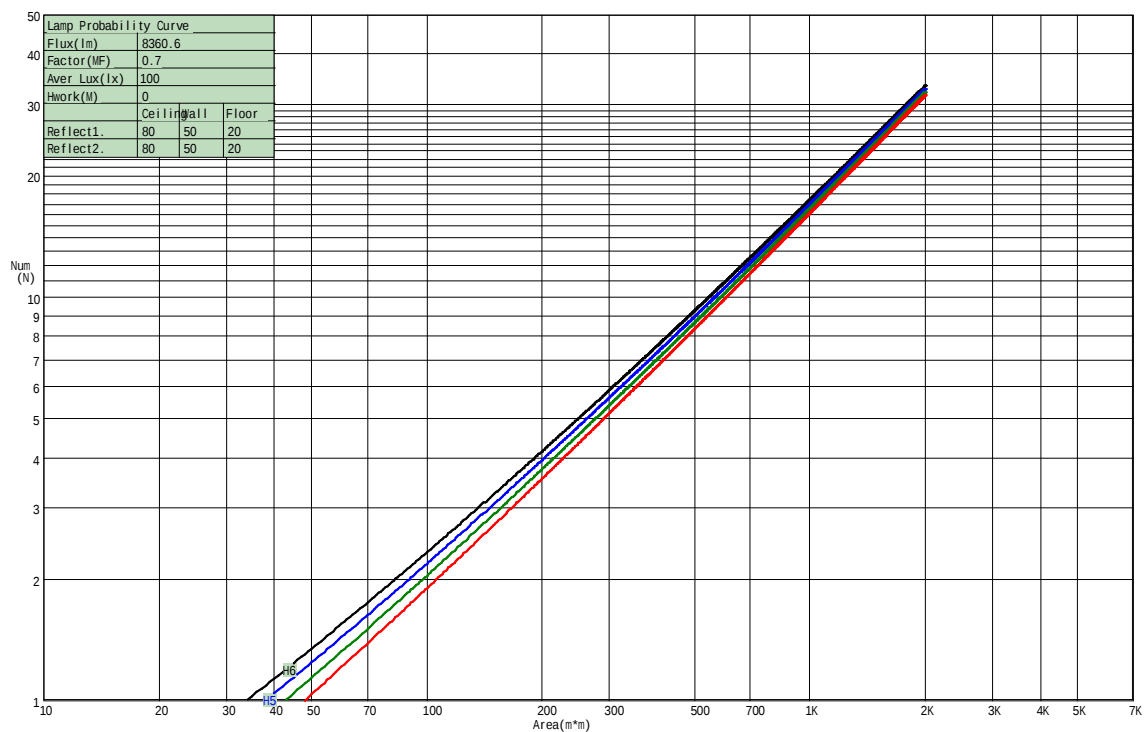
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.7V I: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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	35	56	43	35	53	42	35
0.80	64	49	39	62	48	39	58	46	38
1.00	67	52	42	65	51	41	61	49	40
1.25	70	54	43	67	53	42	62	50	40
1.50	72	55	43	69	54	42	63	50	40
2.00	73	56	43	70	54	42	63	50	39
2.50	74	56	41	70	53	40	63	49	37
3.00	74	55	40	70	53	38	62	48	36
4.00	74	55	38	69	52	36	61	46	33
5.00	74	54	37	69	51	35	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	1.05	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	0.54	0.49	0.58	0.53	0.48
6	0.59	0.5	0.44	0.58	0.49	0.43	0.56	0.49	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	0.44	0.38	0.49	0.43	0.38	0.48	0.42	0.38
8	0.49	0.4	0.34	0.48	0.4	0.34	0.47	0.39	0.34	0.45	0.39	0.34	0.44	0.38	0.34
9	0.45	0.37	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: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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	0.19	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	0.14	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	0.15	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: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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	3147	3025	2958	3018	3151	3202	3280	3252	0-5	74.9	74.9
10	3141	2873	2757	2870	3130	3334	3410	3310	5-10	223	298
15	3142	2762	2518	2702	3111	3365	3490	3377	10-15	366	663
20	3146	2610	2243	2552	3097	3371	3466	3414	15-20	499	1162
25	3181	2383	1905	2326	3123	3369	3285	3414	20-25	614	1776
30	3197	2127	1410	2062	3159	3296	3007	3338	25-30	707	2483
35	3191	1823	775	1799	3194	3164	2704	3216	30-35	764	3247
40	3241	1461	529	1470	3248	2946	2298	3065	35-40	794	4041
45	3231	993	556	1039	3240	2642	1878	2778	40-45	803	4844
50	3119	687	579	737	3243	2280	1454	2445	45-50	779	5623
55	3045	461	565	473	3217	1820	975	2051	50-55	738	6361
60	2848	277	487	283	3032	1179	598	1527	55-60	662	7024
65	2524	209	379	219	2713	441	291	662	60-65	536	7559
70	2036	160	243	165	2205	176	167	224	65-70	407	7967
75	830	123	116	126	794	88.3	98	92.5	70-75	256	8223
80	137	80.8	85.3	85.4	106	50.7	61.9	50.8	75-80	82.4	8305
85	62.9	59.9	45.5	59.3	49.6	30.7	34.9	29	80-85	33.2	8338
90	51.4	50.2	40.5	50.5	42.2	27.9	25.6	23	85-90	22.4	8361
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: 490.3mA P: 105.50W PF: 0.993 Test LM: 9727.1lm		
Lamp Name: LED STREET LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-100A01	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	3147	3094	3038	3003	2972	2971	2998	3032	3093	3151	3173	3197	3228	3263	3274	3261	3240	3193
10.0	3141	3024	2902	2835	2782	2782	2833	2899	3017	3130	3219	3311	3359	3393	3388	3343	3292	3215
15.0	3142	2976	2803	2682	2572	2559	2642	2747	2932	3111	3222	3337	3406	3462	3465	3414	3351	3245
20.0	3146	2911	2669	2490	2323	2311	2450	2611	2859	3097	3217	3341	3402	3445	3455	3431	3385	3263
25.0	3181	2831	2470	2226	2009	1997	2188	2413	2774	3123	3230	3342	3341	3303	3313	3371	3388	3283
30.0	3197	2729	2244	1891	1567	1553	1848	2182	2679	3159	3219	3281	3201	3070	3080	3230	3323	3259
35.0	3191	2593	1972	1479	1004	999	1463	1952	2584	3194	3181	3168	3013	2805	2816	3048	3213	3202
40.0	3241	2462	1655	1155	733	735	1161	1665	2470	3248	3116	2979	2733	2439	2465	2813	3084	3164
45.0	3231	2252	1238	850	651	661	880	1279	2277	3240	2978	2707	2391	2045	2075	2483	2828	3033
50.0	3119	2055	953	652	603	613	685	1011	2147	3243	2822	2386	2009	1635	1671	2120	2519	2824
55.0	3045	1915	743	495	542	545	504	774	2017	3217	2606	1972	1542	1160	1210	1698	2159	2610
60.0	2848	1723	558	346	441	442	350	584	1830	3032	2221	1381	988	725	801	1222	1671	2270
65.0	2524	1511	463	265	342	344	272	492	1622	2713	1719	690	392	324	372	540	866	1709
70.0	2036	1215	365	187	225	226	191	388	1313	2205	1318	398	173	169	180	205	422	1243
75.0	830	521	201	121	117	118	122	199	502	794	485	165	91.5	95.9	96.8	94.3	173	507
80.0	137	112	87	82.3	84.4	85.4	85.4	87.6	96.7	106	81.6	56.7	54.4	59.5	59.5	54.4	60.2	99.3
85.0	62.9	61.6	60.2	55.2	48.7	48.5	54.8	58.3	53.9	49.6	41.4	32.8	32.1	34	33.6	31	32.7	48.1
90.0	51.4	50.9	50.3	47	42.6	42.7	47.2	49.6	45.8	42.2	35.9	29.4	27.1	26.1	25.1	23.9	26.1	39
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: