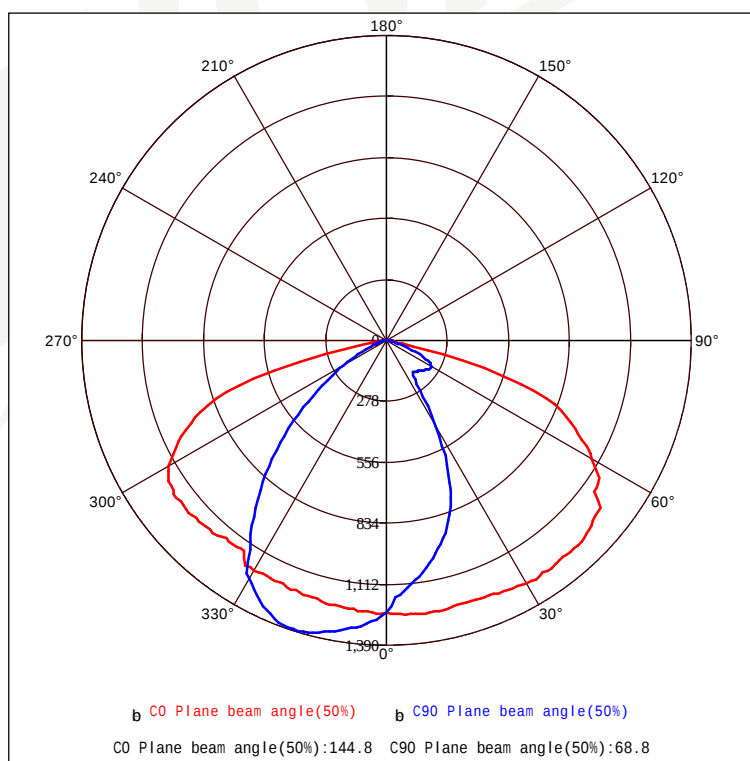


Goniophotometer Test Report

Measured Para U: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm						
Lamp Name: LED STREET LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPSTL-50A01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPSTL-50A01		Peak Value(cd)	1386.5	Efficiency(lm/w)	86.3
Nominal P(w)		1.0	Position	270.0,16.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	4384.04	Down(C0-C180)	40.3
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)	59.7

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

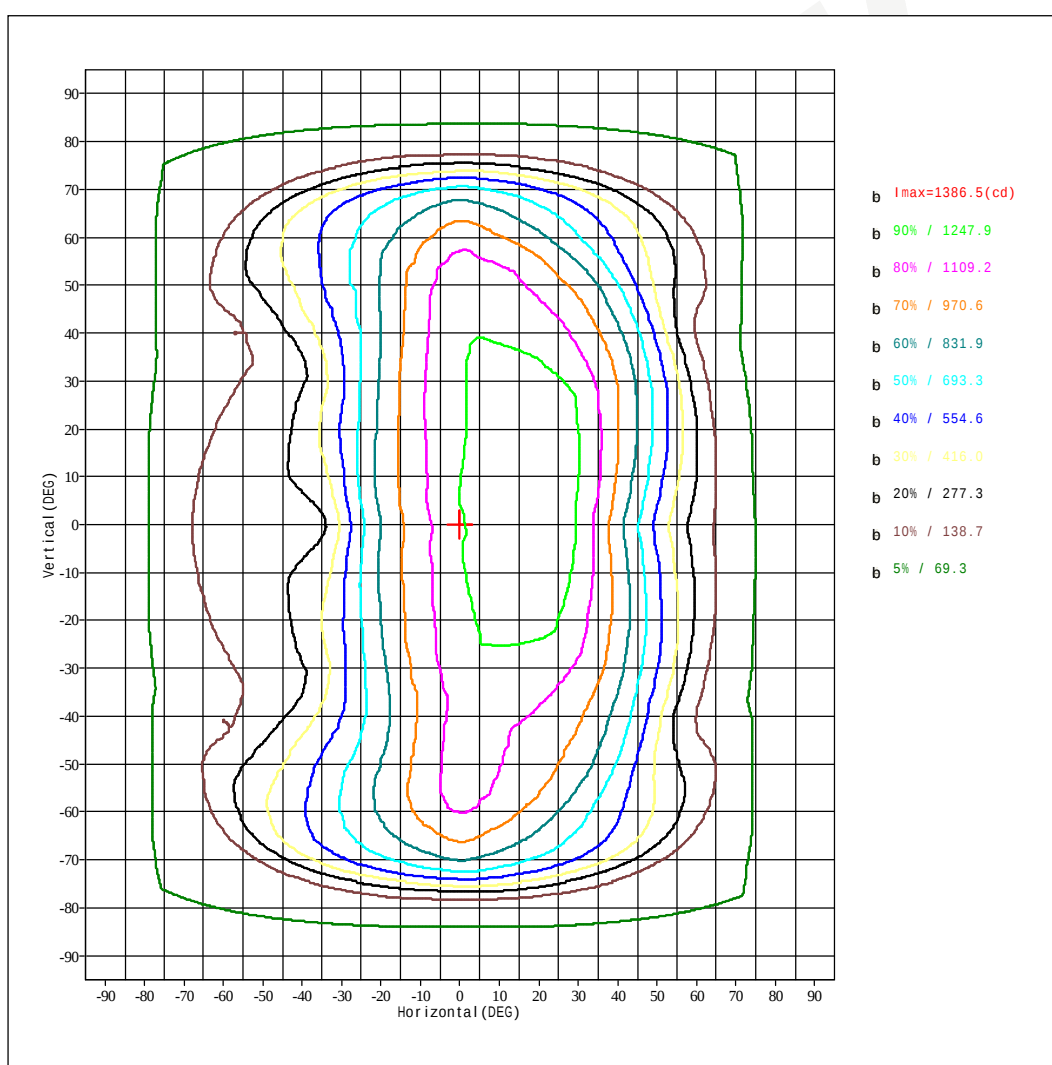
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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

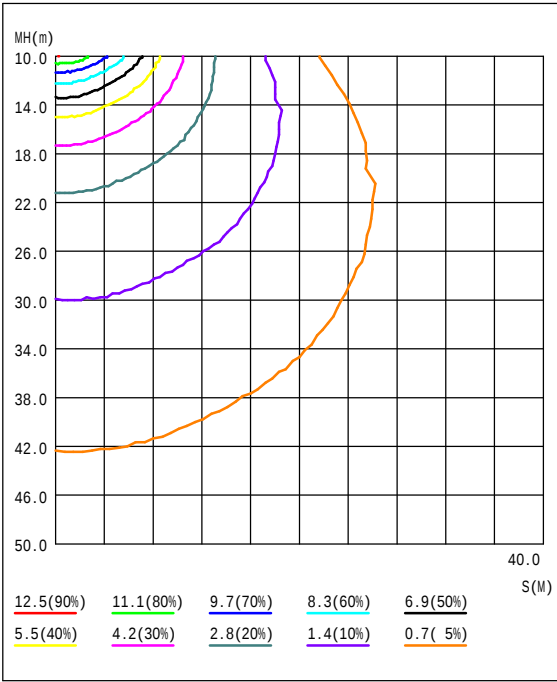
Humidity(%): 60

Date: 2023-5-21

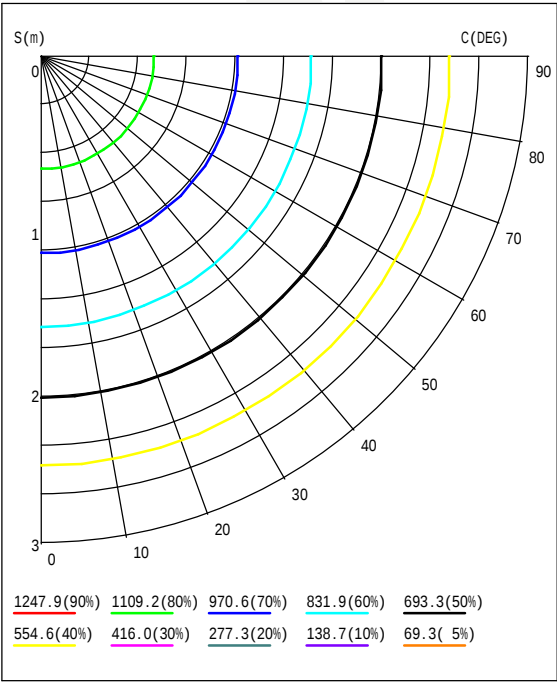
Remark:

Measured Para U: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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

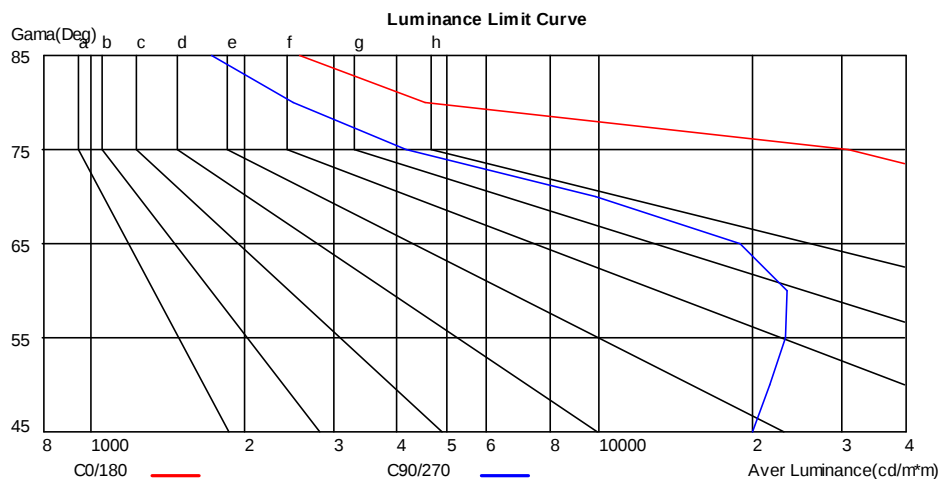
Remark:

Measured Para U: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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	127457.0	124264.5	116534.8	107126.1	93817.7	74413.0	31014.1	4534.1	2566.2
C90	20076.9	21623.5	23335.5	23380.4	19018.8	9845.5	4179.7	2502.2	1730.0

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

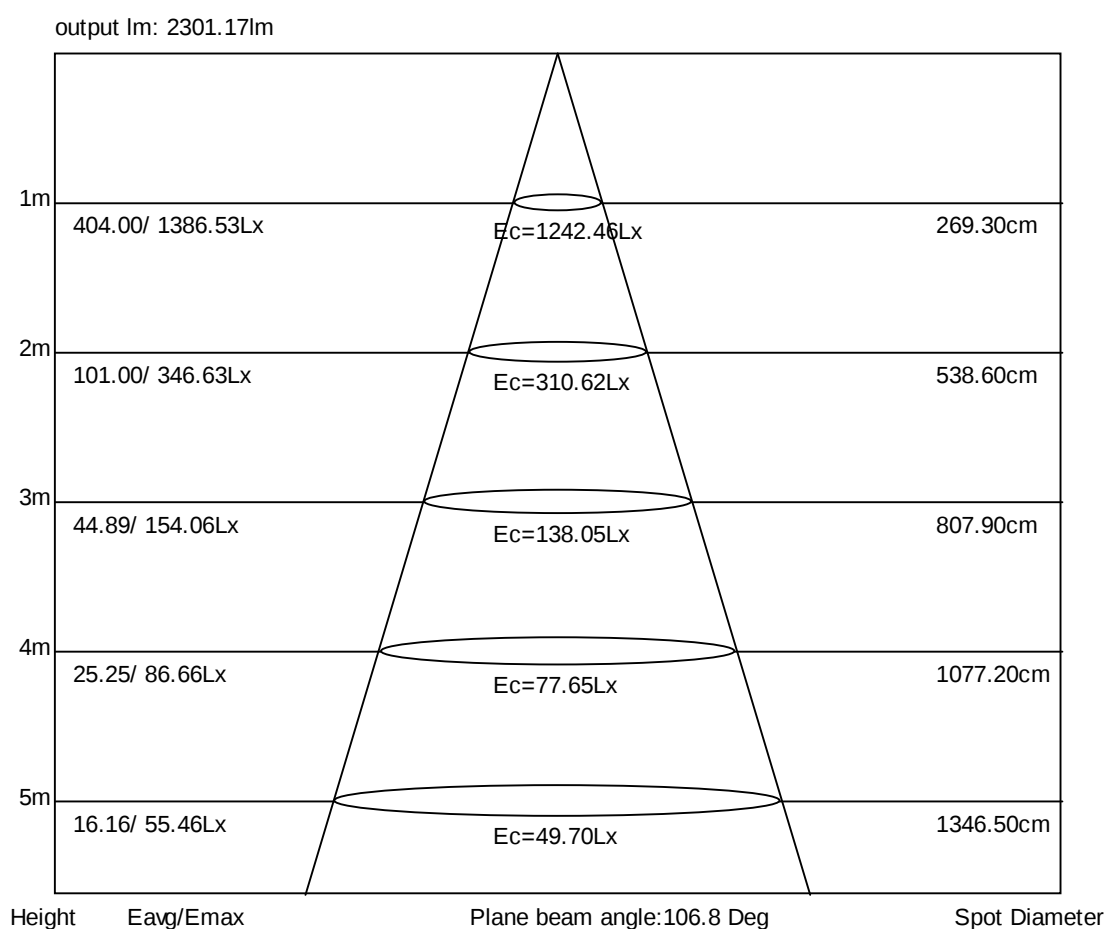
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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

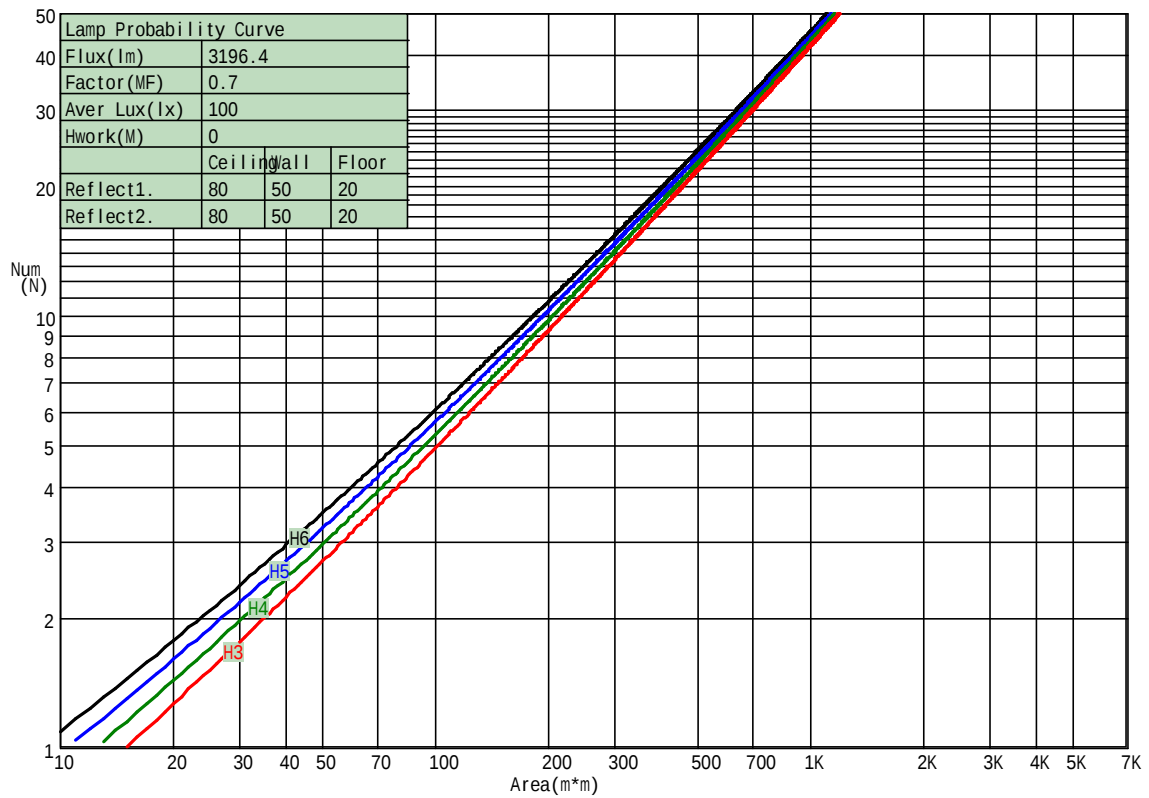
Humidity(%): 60

Date: 2023-5-21

Remark:

Measured Para U: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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	59	45	37	57	44	36	54	43	36
0.80	64	49	40	62	49	39	58	47	39
1.00	68	52	42	65	51	41	61	49	40
1.25	70	55	43	68	53	42	62	50	41
1.50	72	55	43	69	54	42	63	50	40
2.00	73	56	43	70	54	42	64	50	40
2.50	74	56	41	70	53	40	63	49	37
3.00	74	56	40	70	53	39	62	48	36
4.00	74	55	38	69	52	36	61	46	33
5.00	74	54	37	69	51	35	61	45	32

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	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.59	0.55
5	0.65	0.57	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	0.5	0.44	0.56	0.49	0.43	0.54	0.48	0.43	0.53	0.47	0.43
7	0.53	0.45	0.39	0.53	0.45	0.39	0.51	0.44	0.38	0.5	0.43	0.38	0.48	0.42	0.38
8	0.49	0.4	0.35	0.48	0.4	0.35	0.47	0.4	0.34	0.46	0.39	0.34	0.44	0.38	0.34
9	0.45	0.37	0.31	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.36	0.31	0.41	0.35	0.31
10	0.41	0.34	0.28	0.41	0.33	0.28	0.4	0.33	0.28	0.39	0.33	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: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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	0.21	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	0.07	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	0.15	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	0.04	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: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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	1248	1221	1122	1204	1244	1298	1314	1310	0-5	29.8	29.8
10	1258	1120	1042	1101	1230	1336	1351	1326	5-10	88	118
15	1254	1061	949	1041	1216	1345	1376	1341	10-15	143	261
20	1253	993	829	964	1217	1338	1375	1360	15-20	195	456
25	1263	919	654	876	1208	1332	1328	1380	20-25	240	696
30	1280	802	422	772	1209	1301	1247	1358	25-30	274	971
35	1282	663	231	633	1162	1192	1061	1314	30-35	292	1263
40	1276	516	192	493	1174	1114	873	1197	35-40	300	1563
45	1275	353	201	345	1190	994	689	1096	40-45	301	1863
50	1243	230	216	234	1197	841	505	954	45-50	291	2155
55	1165	164	233	170	1181	663	340	755	50-55	275	2429
60	1071	110	234	132	1135	451	213	521	55-60	248	2677
65	938	84.4	190	96.2	1021	182	105	205	60-65	202	2879
70	744	64.7	98.5	73.8	839	75.4	62.5	64.8	65-70	153	3032
75	310	48.9	41.8	54.7	473	41.1	39.3	33.7	70-75	103	3135
80	45.3	35.7	25	39.3	61.1	24.9	24.7	18.7	75-80	38.1	3173
85	25.7	26.6	17.3	28.1	23.9	13.6	15.4	9.91	80-85	14	3187
90	20.8	19.7	15.9	20.4	17.8	9.75	8.74	8.16	85-90	9.24	3196
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: 216.5V I: 237.5mA P: 50.80W PF: 0.988 Test LM: 4384.04lm		
Lamp Name: LPSTL-50A01	Lamp Type:	Weight(kg):
Lamp ID: LPSTL-50A01	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	1248	1236	1224	1188	1143	1140	1177	1208	1226	1244	1268	1292	1303	1311	1313	1311	1303	1275
10.0	1258	1198	1135	1094	1059	1054	1081	1115	1173	1230	1276	1325	1341	1348	1346	1334	1319	1288
15.0	1254	1169	1082	1024	974	969	1011	1060	1140	1216	1272	1331	1355	1369	1368	1352	1332	1292
20.0	1253	1139	1022	939	865	859	920	992	1106	1217	1270	1325	1350	1367	1371	1365	1348	1300
25.0	1263	1113	957	832	712	703	803	913	1063	1208	1263	1319	1331	1329	1339	1363	1367	1314
30.0	1280	1071	855	678	505	499	657	819	1018	1209	1249	1291	1283	1258	1271	1322	1350	1314
35.0	1282	1011	731	521	326	319	501	691	930	1162	1175	1189	1149	1090	1116	1231	1310	1296
40.0	1276	944	599	410	263	258	394	567	876	1174	1148	1121	1035	926	944	1090	1205	1241
45.0	1275	871	454	303	234	232	298	438	820	1190	1104	1015	894	756	778	962	1115	1196
50.0	1243	800	341	226	219	220	228	340	776	1197	1041	880	731	578	603	807	986	1117
55.0	1165	727	273	187	218	220	191	281	739	1181	954	720	557	411	431	619	800	986
60.0	1071	651	215	150	207	212	166	242	696	1135	836	526	373	265	281	420	582	831
65.0	938	565	178	119	167	170	127	197	616	1021	654	274	157	122	127	173	285	618
70.0	744	447	139	75.7	91.1	93.1	81.9	157	504	839	505	159	71.2	65.3	63	64	139	447
75.0	310	196	77.5	46.6	43.4	44.6	50.5	100	290	473	284	88.4	40.5	39.7	38.1	35.5	63.9	189
80.0	45.3	41.1	36.8	32.2	27.4	28.2	34.6	41.7	51.6	61.1	45.2	28.8	24.8	24.7	23.4	20.6	21.6	33.7
85.0	25.7	26.1	26.5	23.5	19.3	19.7	24.5	27.6	25.7	23.9	19.4	14.7	14.2	15	14.2	11.7	11.6	18.8
90.0	20.8	20.3	19.8	18.4	16.7	16.9	18.9	20.1	18.9	17.8	14.3	10.6	9.42	8.96	8.61	8.35	9.54	15.3
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: