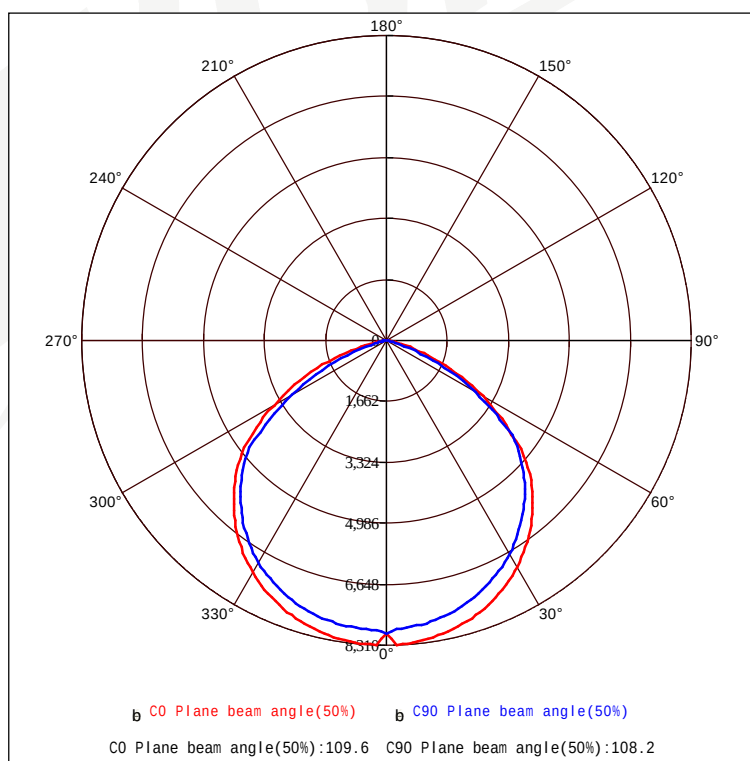


Goniophotometer Test Report

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type: CLASS I		Weight(kg):	
Lamp ID: LPFL-200X01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-200X01		Peak Value(cd)	8302.7	Efficiency(lm/w)	96.5
Nominal P(w)		1.0	Position	0.0,0.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	19136.92	Down(C0-C180)	51.1
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)	48.9

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

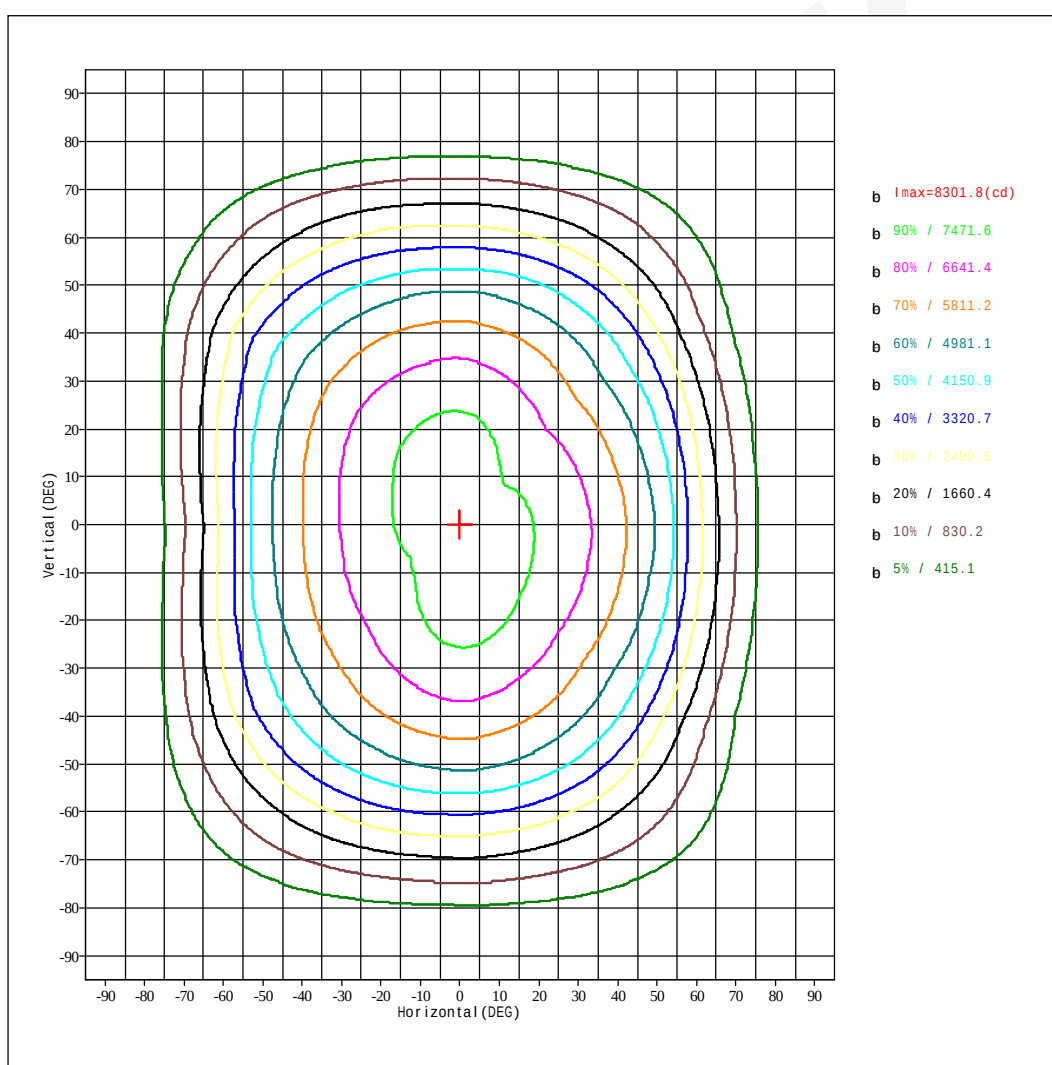
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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: zxcg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

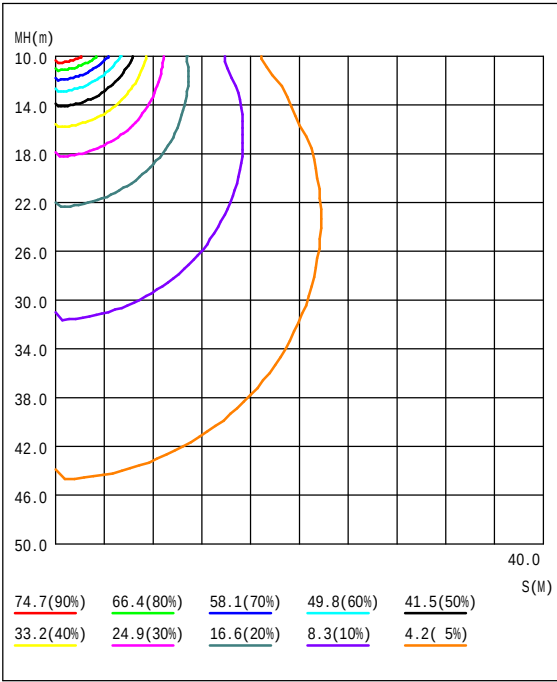
Humidity(%): 60

Date: 2023-10-23

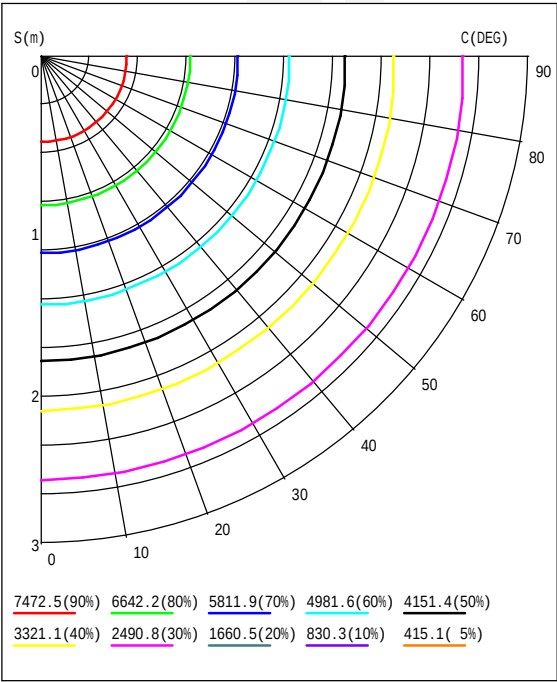
Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

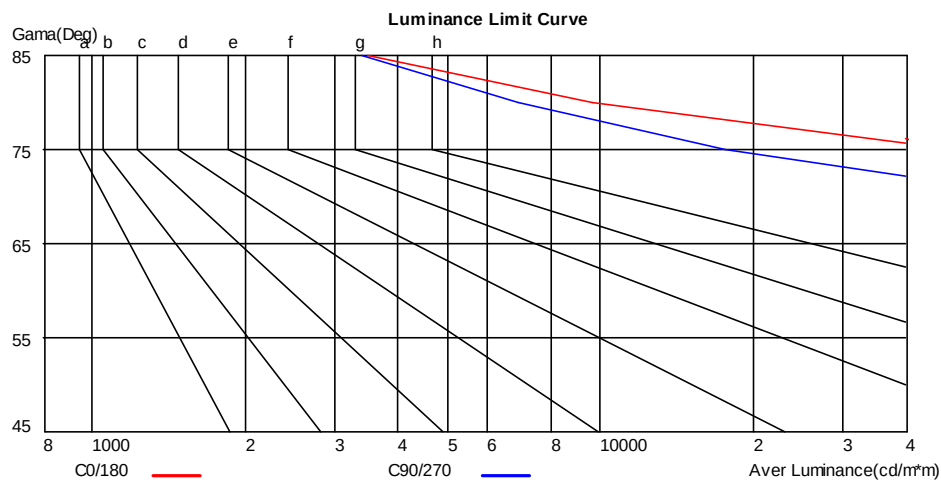
Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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	553103.0	482859.2	391298.3	295048.0	202434.3	113986.8	48475.5	9613.8	3494.3
C90	525326.0	464987.3	369383.0	268132.3	161929.3	75497.5	17670.8	6895.7	3396.3

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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

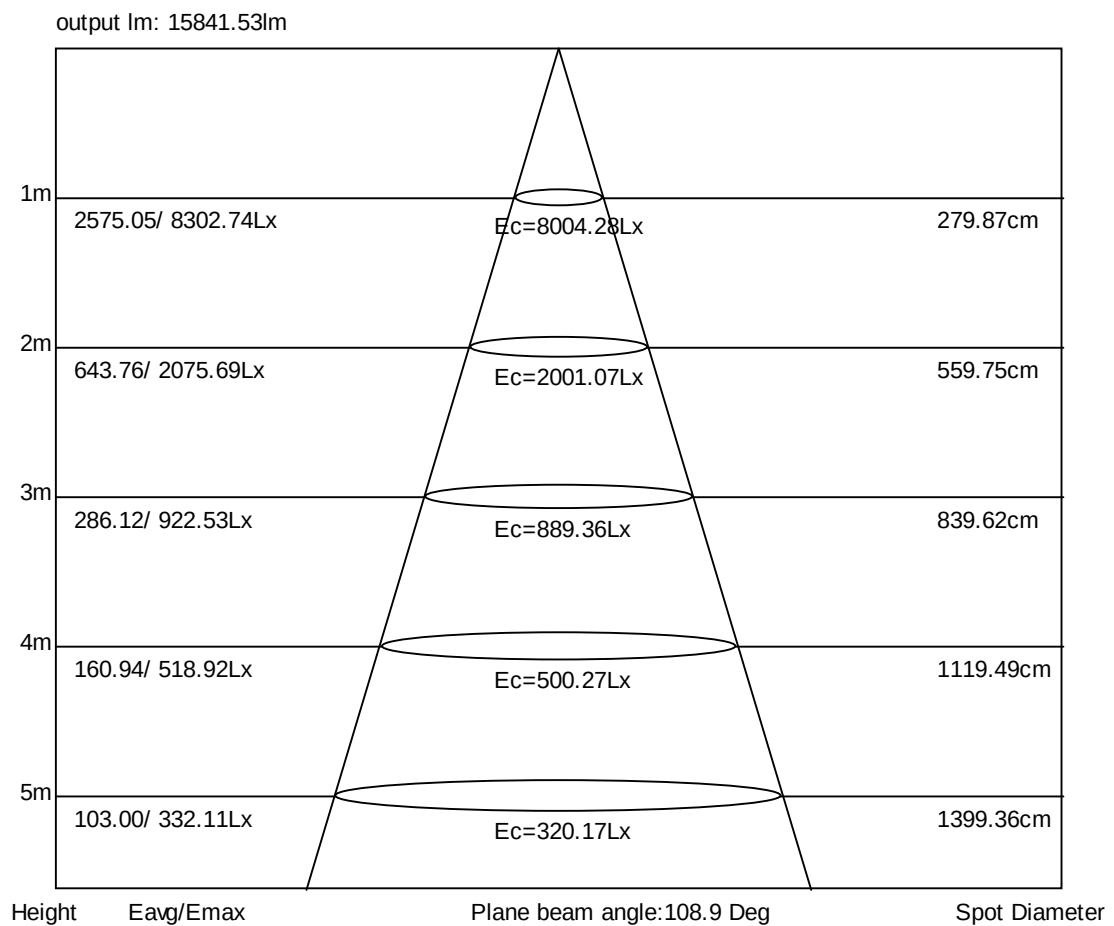
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

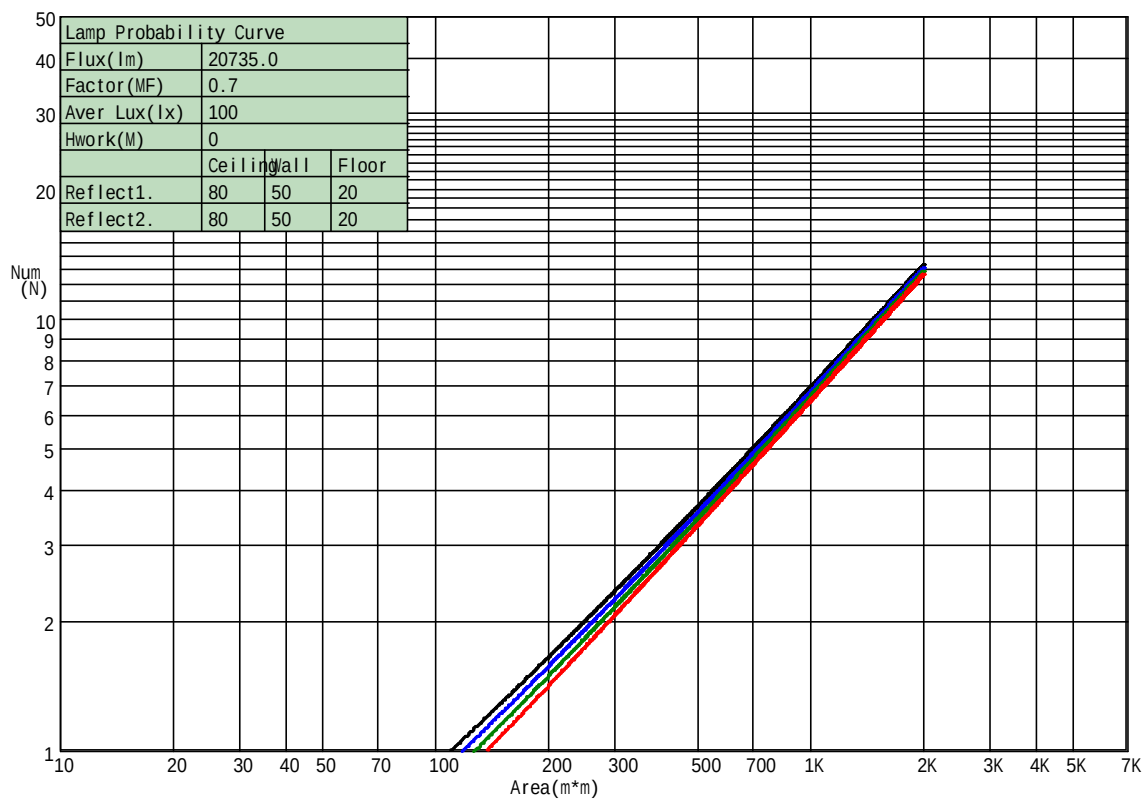
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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	55	41	32	53	40	31	50	39	31
0.80	59	43	32	57	42	32	53	40	31
1.00	62	45	33	59	43	32	54	41	31
1.25	64	46	33	61	44	32	55	41	31
1.50	65	47	33	62	45	32	56	42	30
2.00	68	48	33	64	46	32	57	42	30
2.50	69	49	33	64	46	31	57	42	29
3.00	69	49	32	65	47	31	57	42	28
4.00	70	50	32	66	47	30	57	41	27
5.00	71	51	32	66	47	30	57	41	27

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	1.03	0.99	1.04	1.01	0.98	1	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.89
2	0.94	0.88	0.83	0.92	0.86	0.82	0.88	0.84	0.8	0.85	0.81	0.78	0.82	0.79	0.76
3	0.83	0.76	0.7	0.82	0.75	0.69	0.79	0.73	0.68	0.76	0.71	0.67	0.73	0.69	0.66
4	0.74	0.66	0.59	0.73	0.65	0.59	0.7	0.64	0.58	0.68	0.62	0.57	0.66	0.61	0.57
5	0.66	0.58	0.51	0.65	0.57	0.51	0.63	0.56	0.51	0.61	0.55	0.5	0.59	0.54	0.5
6	0.6	0.51	0.45	0.59	0.51	0.45	0.57	0.5	0.44	0.55	0.49	0.44	0.54	0.48	0.44
7	0.54	0.46	0.4	0.53	0.45	0.4	0.52	0.45	0.39	0.5	0.44	0.39	0.49	0.43	0.39
8	0.49	0.41	0.36	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID:LPFL-200X01	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	0.15	0.05	0.26	0.15	0.05	0.25	0.14	0.04	0.23	0.13	0.04	0.22	0.13	0.04
2	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.13	0.04
3	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.21	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	0.2	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	0.17	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	0.12	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	0.03	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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 217.3V I: 1006.2mA P: 198.31W PF: 0.907 Test LM: 19136.92lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-200X01	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	8260	8170	8077	7980	7877	7806	7761	7790	8044	8289	8184	8074	7994	7920	7846	7768	7771	8019
10.0	8156	8072	7984	7882	7771	7702	7669	7707	7961	8207	8097	7984	7913	7853	7779	7685	7676	7920
15.0	7991	7916	7838	7729	7605	7535	7515	7563	7818	8064	7949	7829	7769	7725	7650	7539	7516	7758
20.0	7757	7691	7622	7510	7379	7315	7312	7371	7623	7867	7737	7602	7552	7529	7456	7329	7294	7529
25.0	7459	7406	7350	7235	7094	7032	7045	7114	7359	7596	7456	7312	7273	7267	7196	7055	7009	7238
30.0	7087	7051	7015	6897	6747	6689	6719	6797	7032	7259	7108	6952	6924	6938	6869	6714	6655	6875
35.0	6644	6631	6617	6498	6339	6284	6329	6416	6638	6852	6688	6518	6502	6535	6470	6301	6229	6440
40.0	6126	6137	6147	6033	5871	5822	5884	5978	6181	6377	6193	6002	6001	6064	6001	5809	5720	5927
45.0	5531	5571	5613	5502	5334	5292	5371	5472	5652	5826	5627	5421	5433	5518	5459	5253	5150	5344
50.0	4829	4917	5008	4905	4733	4697	4795	4903	5060	5211	4981	4743	4768	4883	4830	4608	4488	4661
55.0	3913	4114	4323	4150	3842	3813	4061	4249	4286	4322	4159	3989	3946	3943	3891	3786	3732	3824
60.0	2950	3254	3568	3328	2892	2873	3270	3544	3483	3425	3156	2877	2815	2821	2775	2672	2636	2796
65.0	2024	2333	2652	2365	1862	1821	2240	2543	2541	2540	2185	1817	1747	1774	1729	1610	1578	1805
70.0	1140	1344	1556	1327	941	914	1243	1494	1548	1601	1216	816	761	818	804	717	707	927
75.0	485	576	670	524	290	279	490	659	728	795	519	233	182	208	204	170	183	336
80.0	96.1	129	163	138	91.3	82.2	110	139	179	218	152	83.8	77.2	90.8	89.8	74.4	66.8	81.7
85.0	34.9	43.5	52.3	47.7	38.4	37.5	44.8	51.8	58.8	65.5	60.6	55.6	53.3	51.9	51.1	50.8	48.9	41.8
90.0	33.4	33	32.6	32.3	32.2	32	31.9	34.5	46.1	57.3	57.7	58.1	56.1	53.3	52.4	53.4	51.9	42.5
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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark: