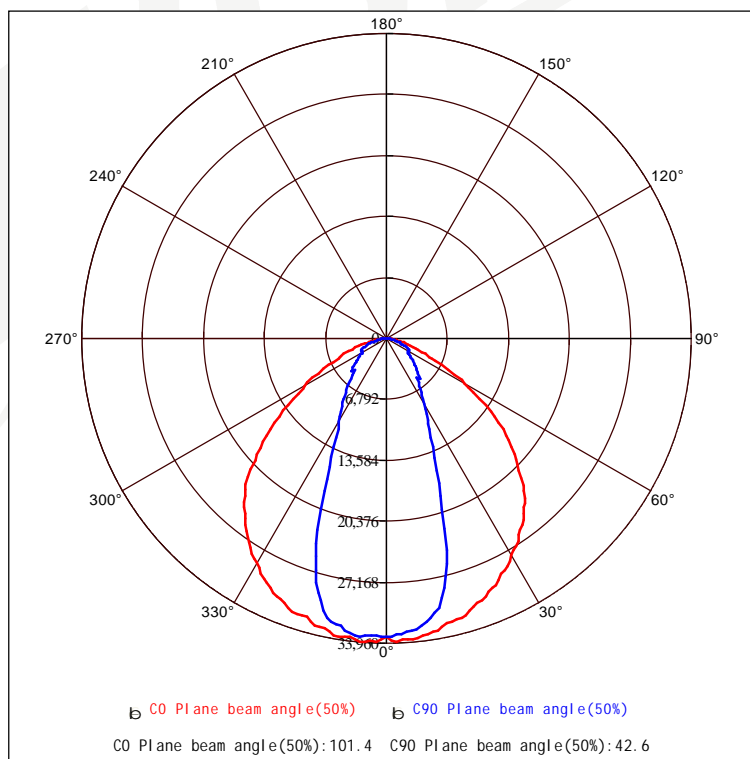


### Goniophotometer Test Report

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm						
Lamp Name: LED FLOOD LIGHT		Lamp Type: CLASS I		Weight(kg):		
Lamp ID: LPFL-500M01		Lamp Spec:		Shape Size:		
Manufactory: LIPER		Sur(m <sup>2</sup> ):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LPFL-500M01		Peak Value(cd)	34097.6	Efficiency(lm/w)	98.12
Nominal P(w)	1.0		Position	180.0, 4.0	UP(C0-C180)	0.0
Rated Volt(v)	220.0		Total Flux(lm)	49315.11	Down(C0-C180)	49.0
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)	51.0

### 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

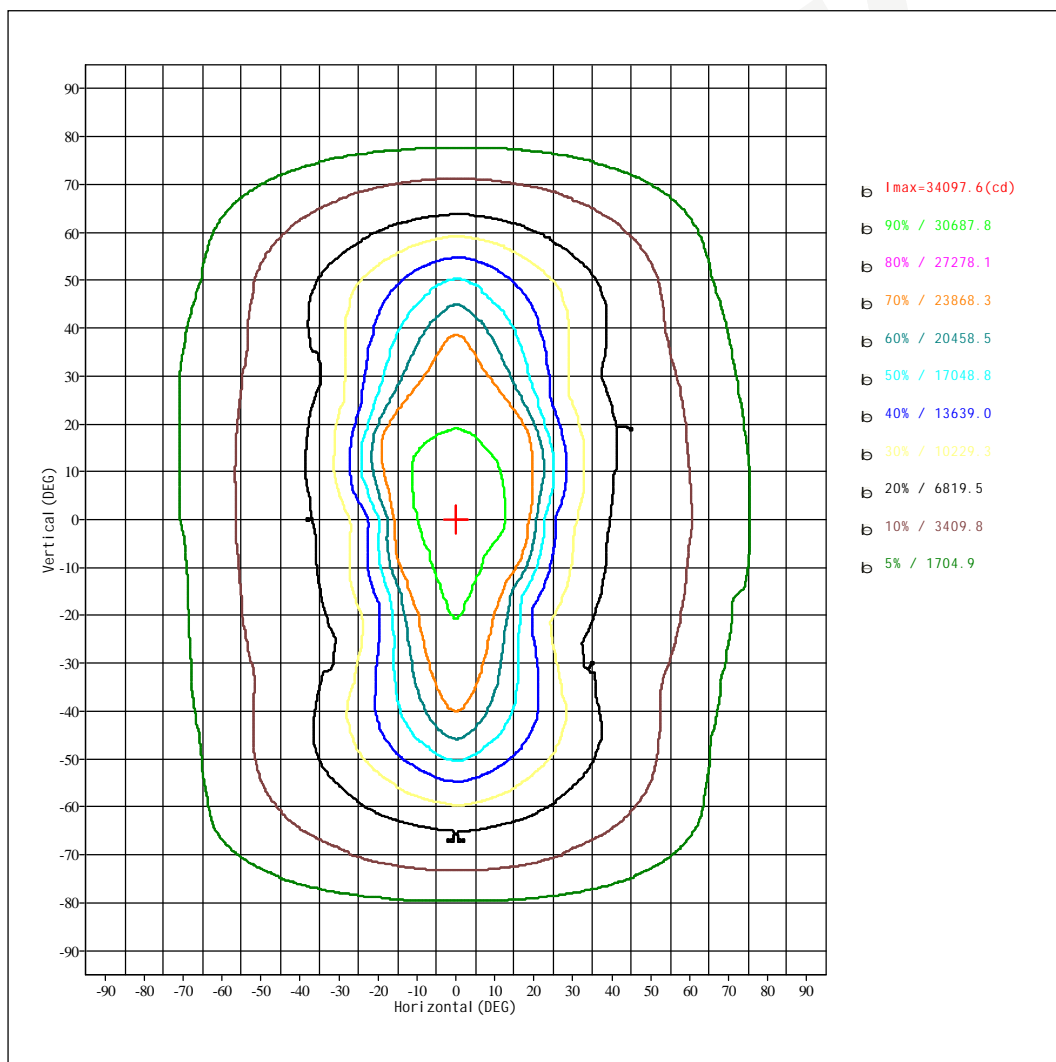
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
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): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

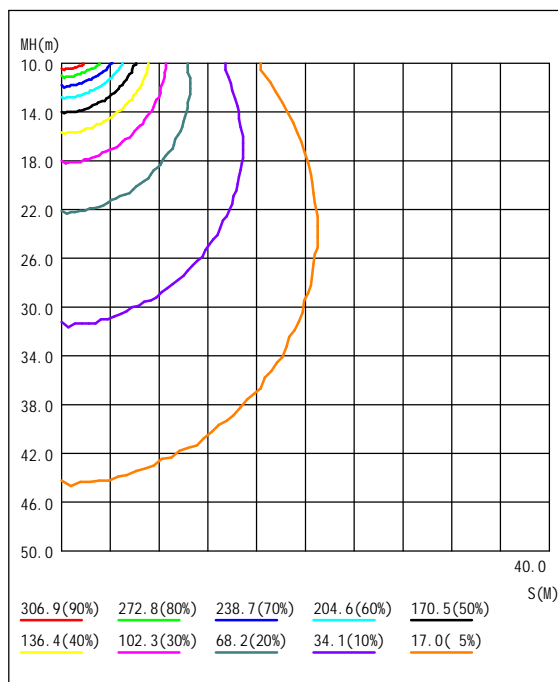
Humi di ty(%): 60

Date: 2023-10-23

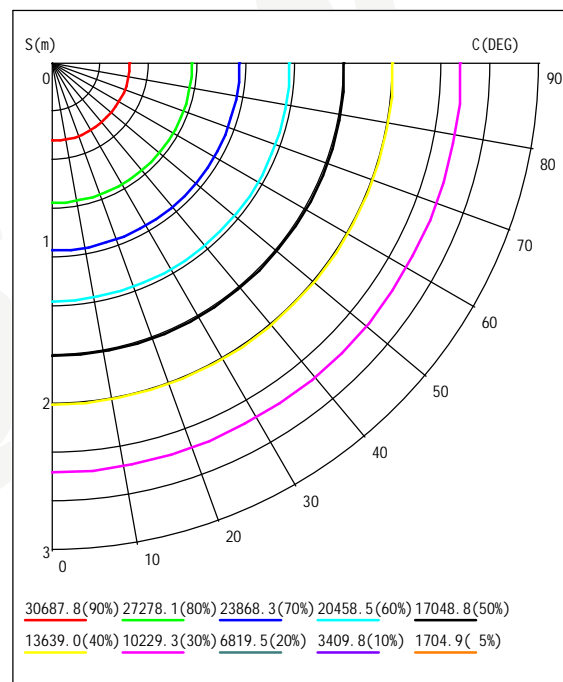
Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX 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

Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

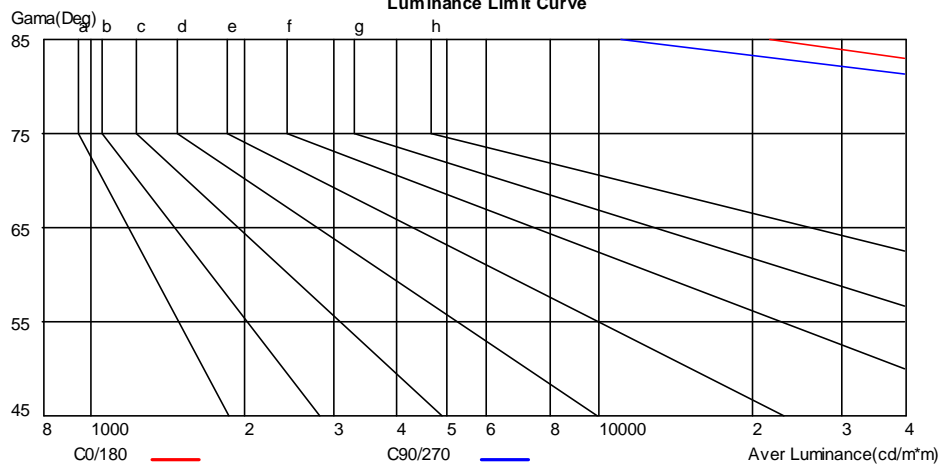
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	2052095.0	1744700.0	1373652.5	1011920.0	564800.0	350075.5	212123.8	98073.5	21620.5
C90	455943.5	367971.3	297392.5	292416.3	254662.5	177815.5	115586.5	65798.5	11012.0

Glare

Glare	Class	Illuminance(x)							
		a	b	c	d	e	f	g	h
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

Luminance Limit Curve



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

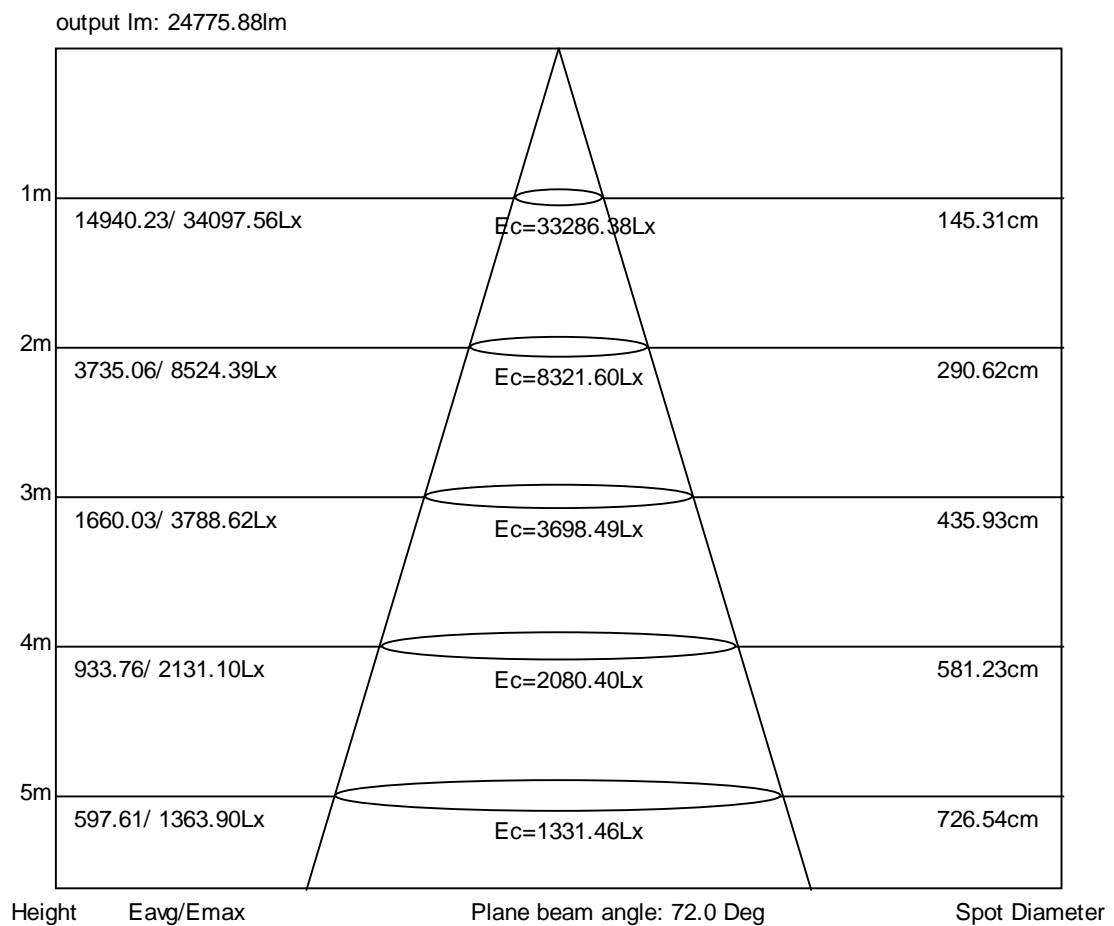
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	Protect Angle(Deg):

Average Illumination



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

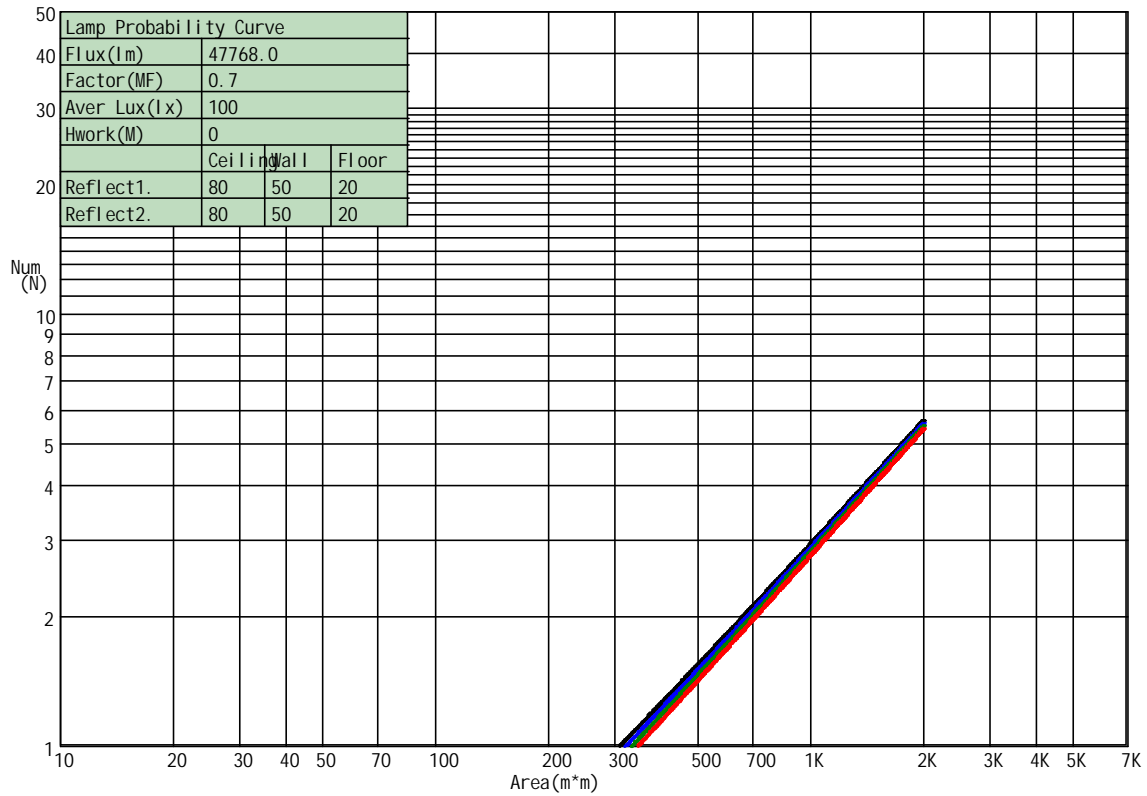
Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m <sup>2</sup> ):	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

Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.111m		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
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	66	54	47	65	54	46	62	52	46
0.80	68	54	45	66	54	45	63	52	44
1.00	70	55	45	67	54	44	63	52	43
1.25	71	55	44	68	54	43	63	51	41
1.50	71	55	42	68	53	42	63	50	40
2.00	73	55	41	69	53	40	63	49	38
2.50	73	54	39	69	52	38	62	48	36
3.00	73	54	38	69	52	37	61	47	34
4.00	73	54	37	69	51	36	61	46	33
5.00	74	54	37	69	51	35	60	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	1.07	1.03	1	1.05	1.01	0.99	1	0.98	0.95	0.97	0.95	0.93	0.93	0.91	0.9
2	0.96	0.9	0.85	0.94	0.89	0.84	0.9	0.86	0.82	0.87	0.84	0.8	0.84	0.81	0.79
3	0.86	0.79	0.74	0.85	0.78	0.73	0.82	0.76	0.72	0.79	0.74	0.71	0.77	0.73	0.69
4	0.78	0.7	0.65	0.77	0.7	0.64	0.74	0.68	0.63	0.72	0.67	0.63	0.7	0.66	0.62
5	0.71	0.63	0.58	0.7	0.63	0.57	0.68	0.62	0.57	0.66	0.6	0.56	0.64	0.59	0.56
6	0.65	0.57	0.52	0.64	0.57	0.51	0.63	0.56	0.51	0.61	0.55	0.51	0.59	0.54	0.5
7	0.6	0.52	0.47	0.59	0.52	0.47	0.58	0.51	0.46	0.56	0.51	0.46	0.55	0.5	0.46
8	0.56	0.48	0.43	0.55	0.48	0.43	0.54	0.47	0.42	0.52	0.47	0.42	0.51	0.46	0.42
9	0.52	0.44	0.39	0.51	0.44	0.39	0.5	0.44	0.39	0.49	0.43	0.39	0.48	0.43	0.39
10	0.48	0.41	0.36	0.48	0.41	0.36	0.47	0.41	0.36	0.46	0.4	0.36	0.45	0.4	0.36

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

Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight(kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Wall Exi tance 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	0.25	0.14	0.05	0.25	0.14	0.04	0.23	0.13	0.04	0.22	0.13	0.04	0.21	0.12	0.04
2	0.24	0.13	0.04	0.24	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.12	0.04
3	0.23	0.12	0.04	0.22	0.12	0.04	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.11	0.03
4	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.19	0.1	0.03	0.18	0.1	0.03
5	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.17	0.09	0.03
6	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03
7	0.17	0.09	0.02	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
8	0.16	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02
9	0.15	0.07	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02
10	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02

Ceiling Cavi ty Exi tance 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	0.13	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	0.06	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.14	0.09	0.05	0.12	0.08	0.05	0.08	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.13	0.08	0.04	0.11	0.07	0.04	0.08	0.05	0.03	0.05	0.03	0.02	0.01	0.01	0.01
7	0.13	0.07	0.04	0.11	0.06	0.03	0.08	0.04	0.02	0.04	0.03	0.01	0.01	0.01	0
8	0.12	0.07	0.03	0.1	0.06	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.11	0.06	0.03	0.1	0.05	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.11	0.06	0.02	0.09	0.05	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range: -90 - 90(Deg)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: zyg

Date: 2023-10-23

Distance(m): 5.000

Remark:

Test System: ZWL Goni ophotometer System V3.0



Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight (kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
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	33779	33078	32638	32392	33816	32835	33552	32602	0-5	794	794
10	32949	33246	30868	30431	33508	31288	32297	32405	5-10	2330	3124
15	32286	31841	25401	27065	32493	27220	28868	31269	10-15	3657	6782
20	31000	29373	16572	20099	31743	20423	21918	28946	15-20	4499	11281
25	29373	24358	10608	15056	30491	15069	13920	24599	20-25	4732	16013
30	27582	17124	8176	10513	28819	10813	10349	17406	25-30	4633	20647
35	25916	11718	6290	8122	26796	8603	8119	12171	30-35	4377	25023
40	23867	8458	5710	6331	24446	6823	6365	9056	35-40	4118	29142
45	20521	6090	4559	5665	21639	5340	4960	6603	40-45	3822	32964
50	17447	5413	3680	4597	17561	4873	4653	5790	45-50	3525	36489
55	13737	4296	2974	3708	13726	3917	3689	4609	50-55	3113	39602
60	10119	3343	2924	2888	10569	3027	3026	3564	55-60	2547	42149
65	5648	2562	2547	2312	6810	2379	3054	2661	60-65	2035	44183
70	3501	1974	1778	1827	4765	1834	2292	2001	65-70	1517	45700
75	2121	1427	1156	1226	2660	1152	1542	1367	70-75	1058	46758
80	981	825	658	620	1334	522	958	750	75-80	638	47396
85	216	313	110	233	401	140	505	288	80-85	288	47684
90	114	71.2	51.1	70.1	173	134	110	147	85-90	84.4	47768
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: zxg

Distance(m): 5.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 215.2V I: 2359.1mA P: 502.60W PF: 0.990 Test LM: 49315.11lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type: CLASS I	Weight (kg):
Lamp ID: LPFL-500M01	Lamp Spec:	Shape Si ze:
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	34k	33k	33k	33k	33k	33k	32k	33k	33k	34k	33k	33k	33k	33k	33k	33k	33k	33k
10.0	33k	33k	33k	32k	31k	31k	31k	31k	32k	34k	33k	32k	32k	32k	32k	32k	32k	33k
15.0	32k	32k	32k	30k	27k	26k	27k	28k	30k	32k	30k	28k	28k	29k	29k	30k	31k	32k
20.0	31k	30k	30k	25k	19k	17k	19k	21k	27k	32k	27k	22k	21k	22k	23k	27k	29k	30k
25.0	29k	27k	25k	20k	14k	12k	14k	17k	24k	30k	24k	17k	15k	14k	16k	21k	25k	27k
30.0	28k	23k	18k	14k	10k	8687	9746	13k	21k	29k	21k	13k	11k	10k	12k	15k	19k	23k
35.0	26k	20k	13k	9937	7477	6690	7521	10k	19k	27k	19k	11k	8444	8225	9005	11k	14k	20k
40.0	24k	17k	10k	7556	6311	5845	6127	8312	17k	24k	17k	8750	6672	6465	6953	8173	11k	17k
45.0	21k	14k	7669	5588	4894	4801	5302	7412	15k	22k	15k	7123	5215	5043	5319	6064	8125	14k
50.0	17k	12k	6730	4844	4059	3880	4296	6015	12k	18k	12k	6261	4801	4701	4902	5417	7065	12k
55.0	14k	9606	5328	3862	3263	3135	3467	4804	9343	14k	9435	4990	3842	3739	3890	4307	5607	9743
60.0	10k	7154	4084	3205	3016	2916	2900	3728	7209	11k	7270	3852	3027	3026	3143	3387	4281	7251
65.0	5648	4298	2899	2557	2550	2495	2389	2804	4842	6810	4871	2864	2601	2906	2968	2790	2988	4341
70.0	3501	2833	2141	1910	1821	1789	1811	2148	3480	4765	3483	2155	1984	2192	2229	2097	2165	2845
75.0	2121	1818	1503	1338	1215	1171	1203	1383	2033	2660	2000	1317	1280	1457	1504	1424	1449	1791
80.0	981	913	842	770	695	650	633	698	1022	1334	979	611	665	863	913	818	775	880
85.0	216	258	302	246	154	137	193	251	327	401	287	168	260	425	457	359	280	248
90.0	114	95.3	75.9	64.6	55.5	55.2	63.9	81.4	128	173	156	138	126	115	118	135	143	128
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)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 30

Humi di ty(%): 60

Tester: zxg

Date: 2023-10-23

Distance(m): 5.000

Remark:

Test System: ZWL Goniophotometer System V3.0