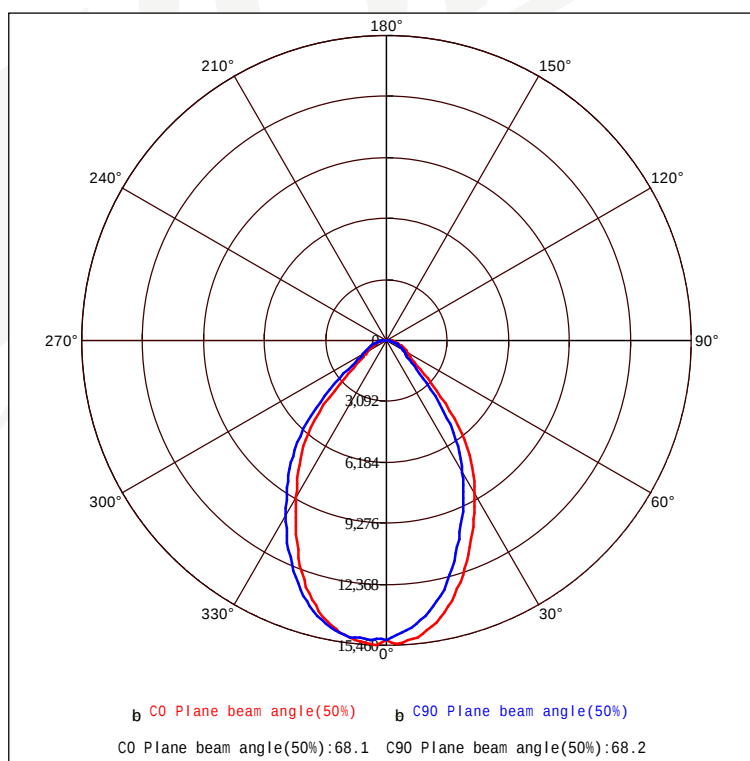


Goniophotometer Test Report

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		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)	15476.4	Efficiency(lm/w)	101.7
Nominal P(w)		1.0	Position	180.0,2.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	20523.06	Down(C0-C180)	47.0
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)	53.0

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

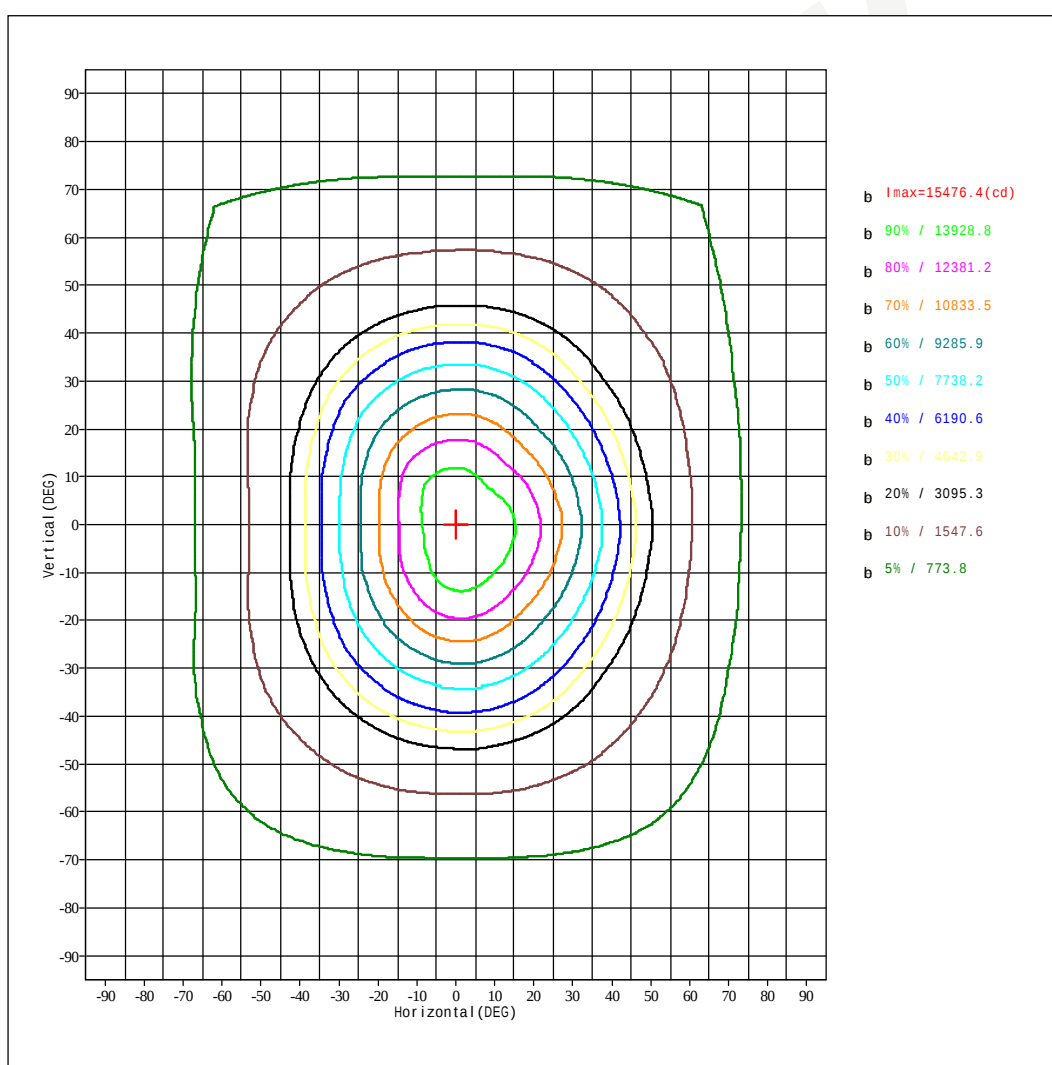
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

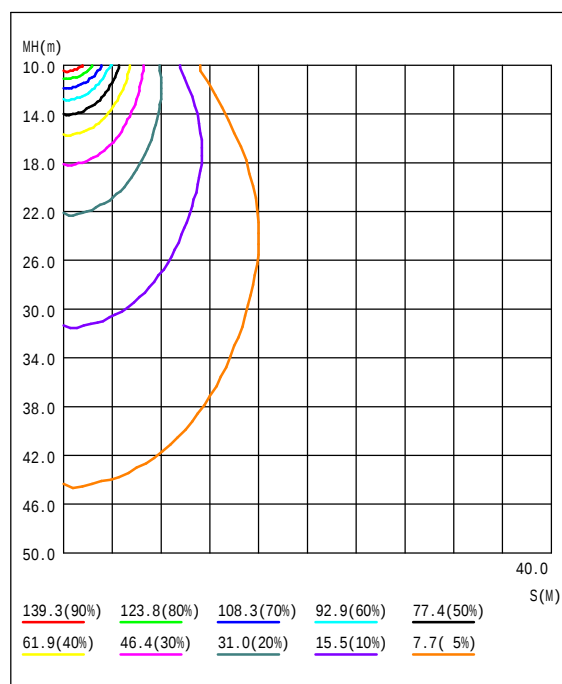
Humidity(%): 60

Date: 2023-10-23

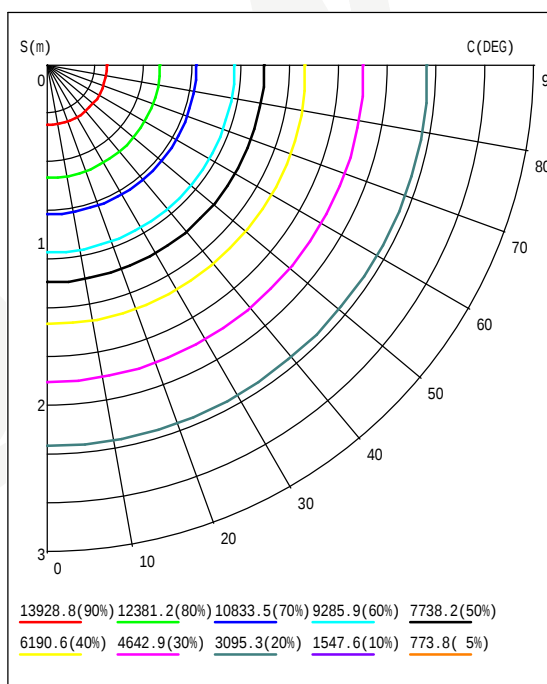
Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

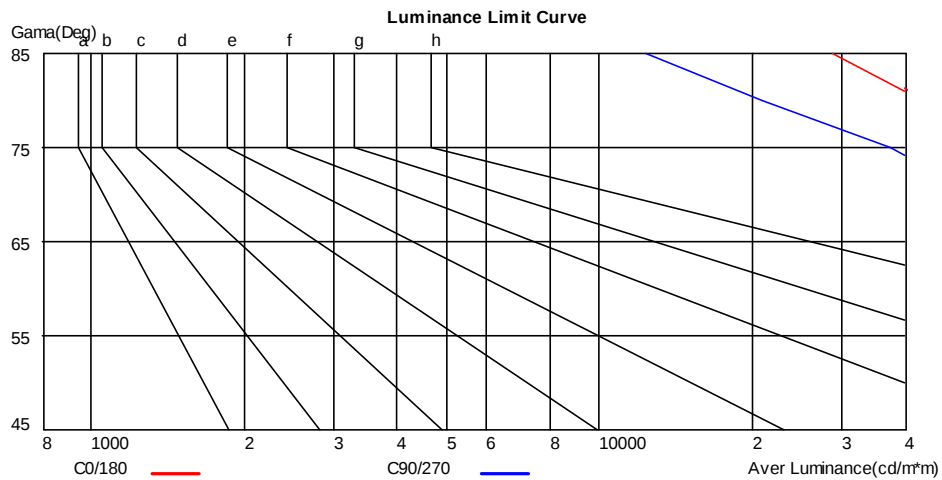
Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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	337580.5	196433.7	142568.4	119999.2	97950.4	73776.7	58751.3	43421.4	28790.8
C90	220805.3	142371.5	115041.7	94781.4	73440.3	55949.6	37509.2	20892.7	12370.8

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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

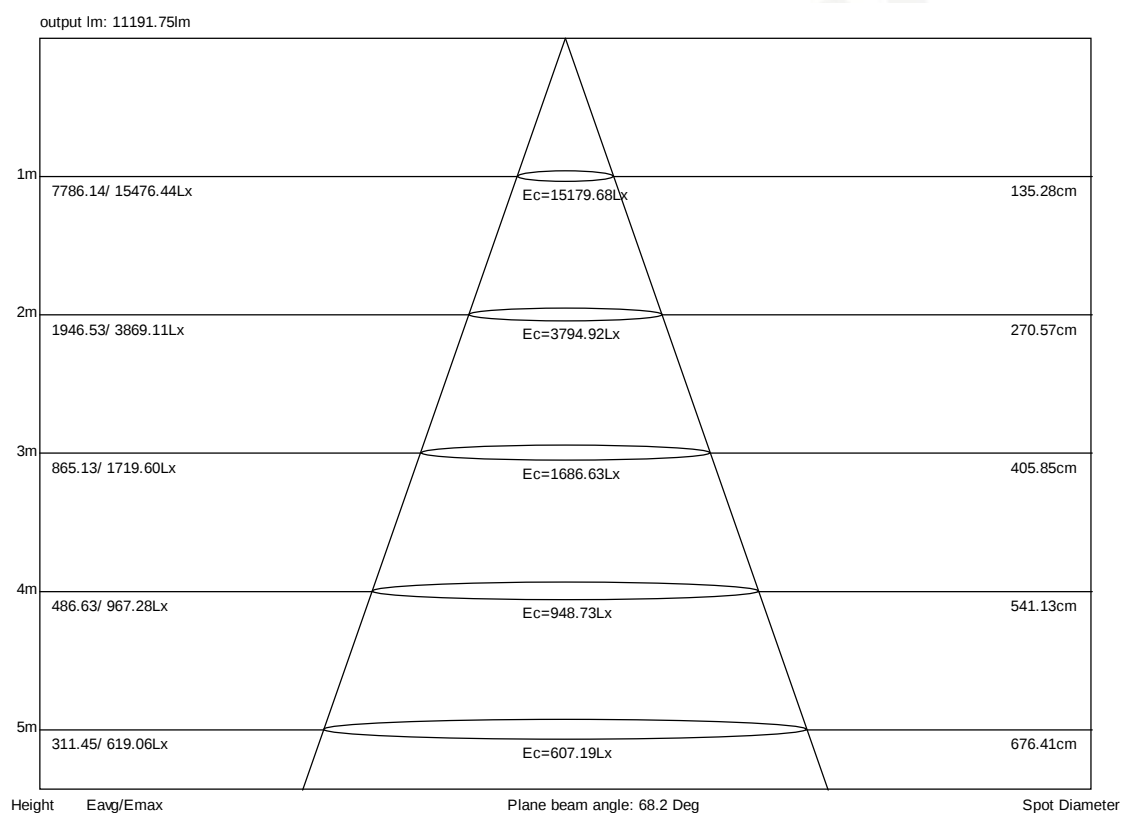
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

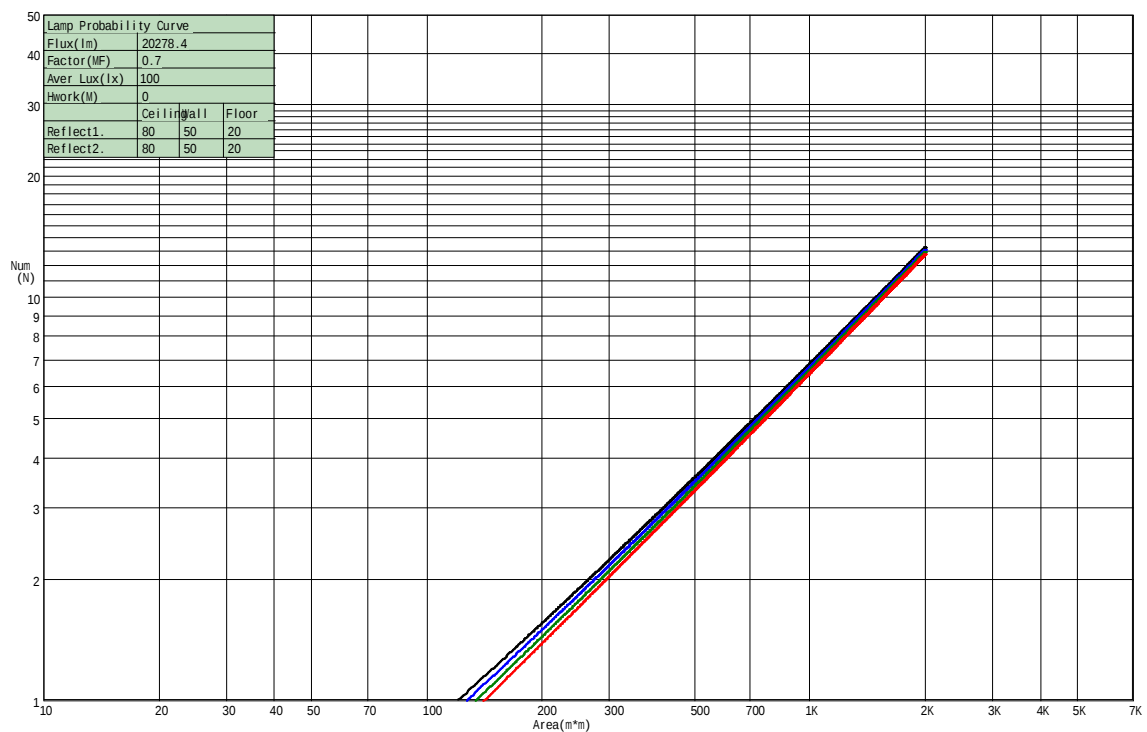
Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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	54	39	30	52	38	29	49	37	29
0.80	57	40	29	54	39	29	50	37	28
1.00	59	41	29	56	40	29	52	38	27
1.25	61	43	29	58	41	28	52	38	27
1.50	63	44	29	59	42	28	53	38	26
2.00	66	46	30	62	44	29	55	39	27
2.50	67	47	30	63	44	29	55	40	26
3.00	68	48	31	64	45	29	56	40	26
4.00	70	50	32	66	47	30	57	41	27
5.00	71	51	32	67	48	31	58	42	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	1.08	1.04	1.01	1.05	1.02	1	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.92	0.91
2	0.97	0.92	0.88	0.96	0.91	0.87	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.84	0.81
3	0.89	0.82	0.77	0.87	0.81	0.76	0.84	0.79	0.75	0.82	0.78	0.74	0.79	0.76	0.73
4	0.81	0.74	0.69	0.8	0.73	0.68	0.77	0.72	0.67	0.75	0.7	0.67	0.73	0.69	0.66
5	0.74	0.67	0.62	0.73	0.67	0.61	0.71	0.65	0.61	0.7	0.64	0.6	0.68	0.63	0.6
6	0.69	0.61	0.56	0.68	0.61	0.56	0.66	0.6	0.55	0.65	0.59	0.55	0.63	0.58	0.55
7	0.64	0.56	0.51	0.63	0.56	0.51	0.61	0.55	0.51	0.6	0.54	0.5	0.59	0.54	0.5
8	0.59	0.52	0.47	0.58	0.52	0.47	0.57	0.51	0.47	0.56	0.5	0.46	0.55	0.5	0.46
9	0.55	0.48	0.43	0.54	0.48	0.43	0.53	0.47	0.43	0.52	0.47	0.43	0.52	0.46	0.43
10	0.51	0.45	0.4	0.51	0.44	0.4	0.5	0.44	0.4	0.49	0.44	0.4	0.48	0.43	0.4

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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	0.24	0.14	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.04
2	0.22	0.12	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	0.03	0.19	0.11	0.03
3	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
4	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.18	0.09	0.03	0.17	0.09	0.03
5	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03	0.16	0.09	0.03
6	0.17	0.09	0.03	0.17	0.09	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02
7	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
8	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02
9	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02
10	0.14	0.07	0.02	0.14	0.07	0.02	0.13	0.07	0.02	0.13	0.06	0.02	0.13	0.06	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	0.16	0.13	0.11	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	0.15	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	0.14	0.1	0.07	0.12	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	0.04	0.03	0.02	0.01	0.01	0.01
7	0.12	0.07	0.04	0.11	0.06	0.03	0.07	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	0.06	0.04	0.02	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-200X01	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	15178	15001	14516	14722	15306	15204	15142	14730	0-5	361	361
10	14444	14332	13587	14042	14831	14737	14905	14160	5-10	1050	1411
15	13239	13171	12194	12899	13773	13725	14152	13137	10-15	1640	3051
20	11756	11624	10602	11443	12393	12313	12984	11788	15-20	2071	5122
25	10257	10025	9023	9850	10695	10709	11614	10357	20-25	2321	7442
30	8813	8585	7589	8327	8976	9113	10042	8929	25-30	2411	9853
35	7353	7082	5951	6921	7555	7656	8576	7516	30-35	2372	12225
40	5469	5253	3959	5273	6001	6032	7094	5711	35-40	2162	14387
45	3376	3172	2208	3231	3884	3968	5175	3723	40-45	1695	16082
50	1964	1838	1424	1806	2071	2187	3231	2173	45-50	1116	17198
55	1426	1375	1150	1332	1334	1392	1853	1453	50-55	737	17935
60	1200	1191	948	1143	1075	1150	1281	1214	55-60	586	18521
65	980	1022	734	952	845	978	1052	1058	60-65	511	19031
70	738	812	559	753	631	778	850	867	65-70	429	19461
75	588	575	375	534	480	560	639	649	70-75	340	19801
80	434	370	209	348	303	340	468	395	75-80	241	20041
85	288	204	124	176	163	185	289	237	80-85	153	20194
90	193	129	123	132	90.3	83.7	122	121	85-90	84	20278
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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark:

Measured Para U: 216.6V I: 948.7mA P: 201.80W PF: 0.982 Test LM: 20523.06lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	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	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k	15k
10.0	14k	14k	14k	14k	14k	14k	14k	14k	14k	15k	15k	15k	15k	15k	15k	14k	14k	14k
15.0	13k	13k	13k	13k	12k	12k	13k	13k	13k	14k	14k	14k	14k	14k	14k	13k	13k	13k
20.0	12k	12k	12k	11k	11k	11k	11k	12k	12k	12k	12k	12k	13k	13k	13k	12k	12k	12k
25.0	10k	10k	10k	9697	9243	9204	9579	9943	10k	11k	11k	11k	11k	11k	11k	11k	10k	10k
30.0	8813	8713	8610	8258	7807	7750	8085	8398	8692	8976	9036	9098	9418	9839	9799	9294	8916	8864
35.0	7353	7234	7112	6711	6198	6163	6603	6991	7278	7555	7599	7645	7957	8374	8344	7864	7498	7424
40.0	5469	5375	5276	4828	4242	4246	4842	5353	5682	6001	6015	6029	6381	6861	6791	6165	5685	5575
45.0	3376	3286	3194	2855	2419	2432	2896	3303	3599	3884	3921	3958	4364	4911	4857	4200	3685	3528
50.0	1964	1909	1851	1702	1514	1507	1681	1835	1955	2071	2122	2174	2530	3003	3000	2521	2151	2056
55.0	1426	1404	1381	1302	1200	1190	1272	1332	1333	1334	1360	1386	1544	1752	1766	1584	1450	1438
60.0	1200	1196	1192	1111	1001	990	1079	1135	1105	1075	1108	1142	1193	1252	1266	1236	1212	1206
65.0	980	998	1017	928	797	782	881	941	892	845	903	963	1002	1036	1054	1056	1049	1014
70.0	738	770	804	729	615	602	690	740	684	631	695	762	802	834	854	862	853	795
75.0	588	582	577	510	419	410	482	529	504	480	515	551	586	622	641	646	642	614
80.0	434	406	377	317	244	239	302	343	322	303	319	336	382	440	452	419	399	417
85.0	288	251	213	177	141	135	159	175	169	163	173	183	219	266	278	254	243	266
90.0	193	165	136	127	124	125	129	128	109	90.3	87.4	84.5	96.3	114	122	121	129	161
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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2023-10-23

Remark: