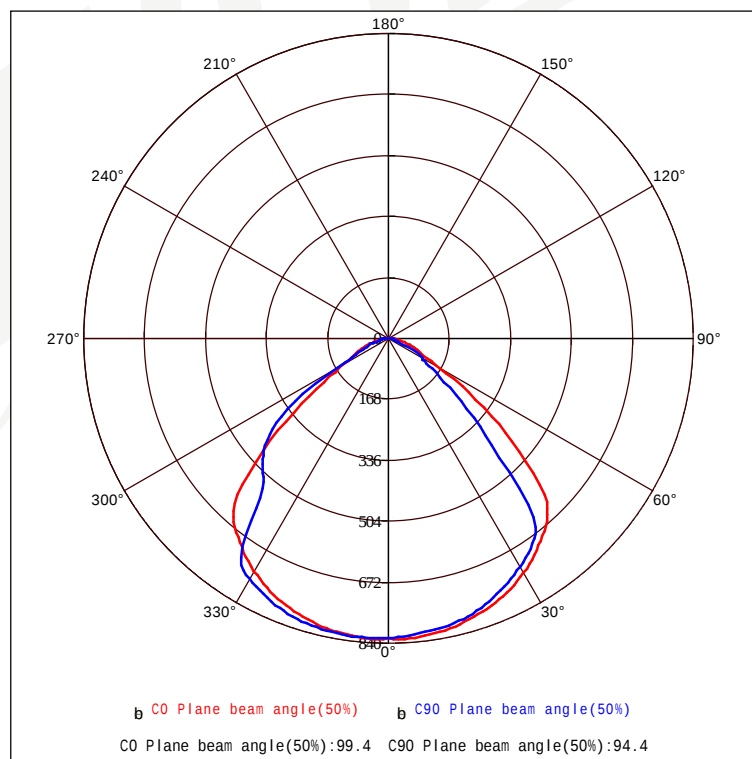


Goniophotometer Test Report

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type:		Weight(kg):	
Lamp ID: LPFL-20B02			Lamp Spec: LPFL-20B02		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-20B02		Peak Value(cd)	831.3	Efficiency(lm/w)	84.4
Nominal P(w)		1.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	1832.007	Down(C0-C180)	48.5
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)	51.5

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

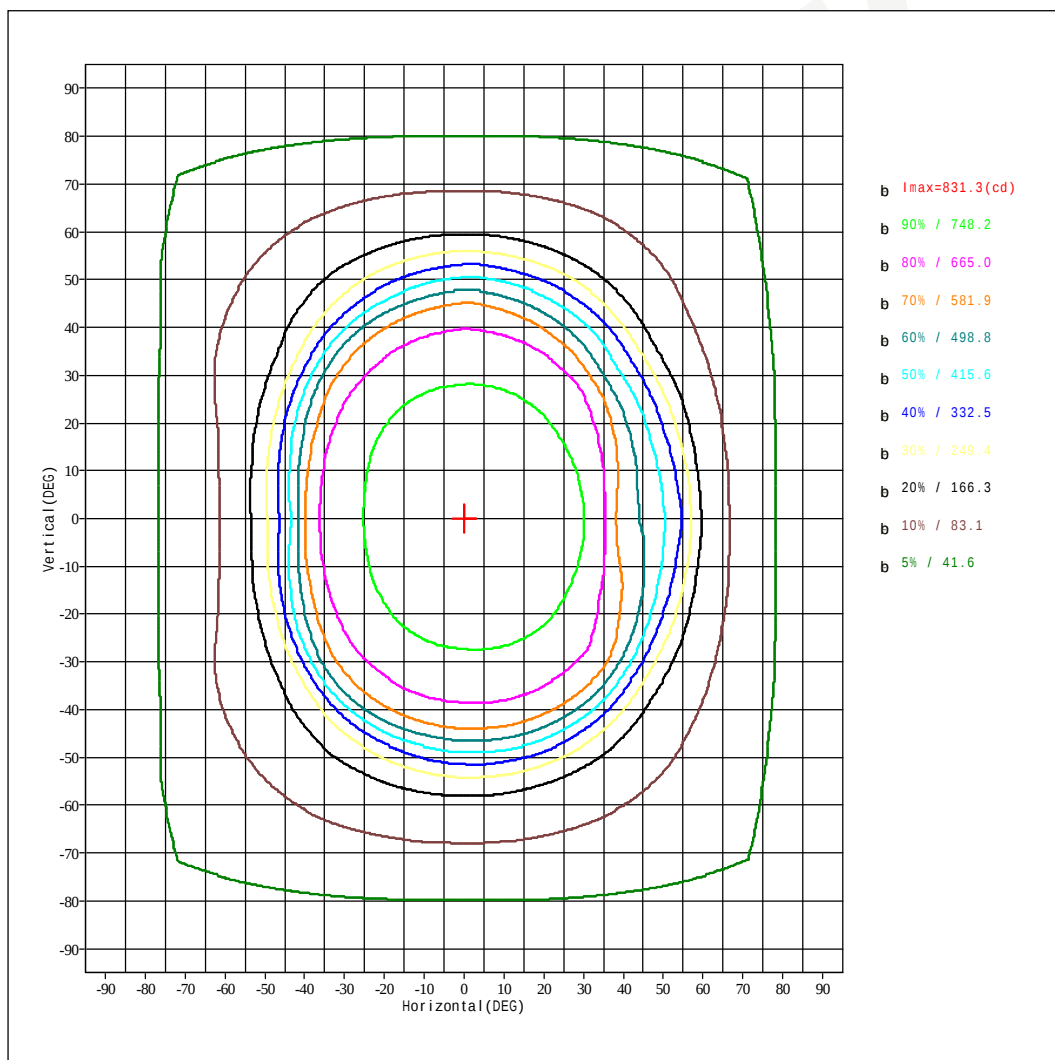
Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

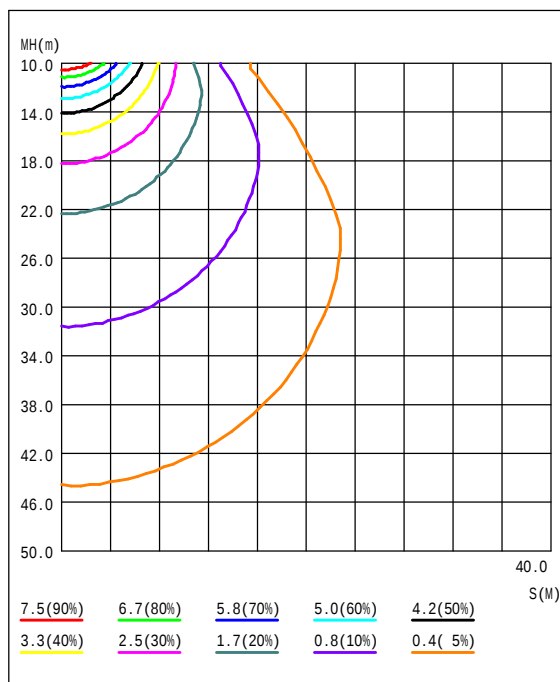
Humidity(%): 60

Date: 2026-1-26

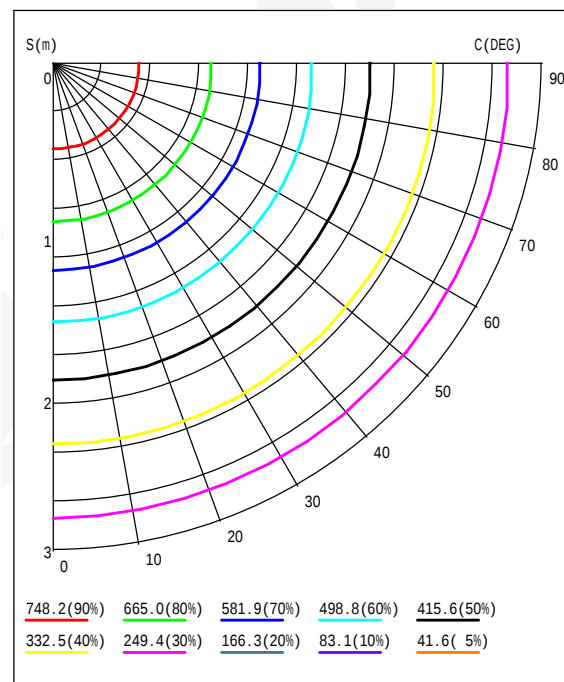
Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spatial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zyg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-26

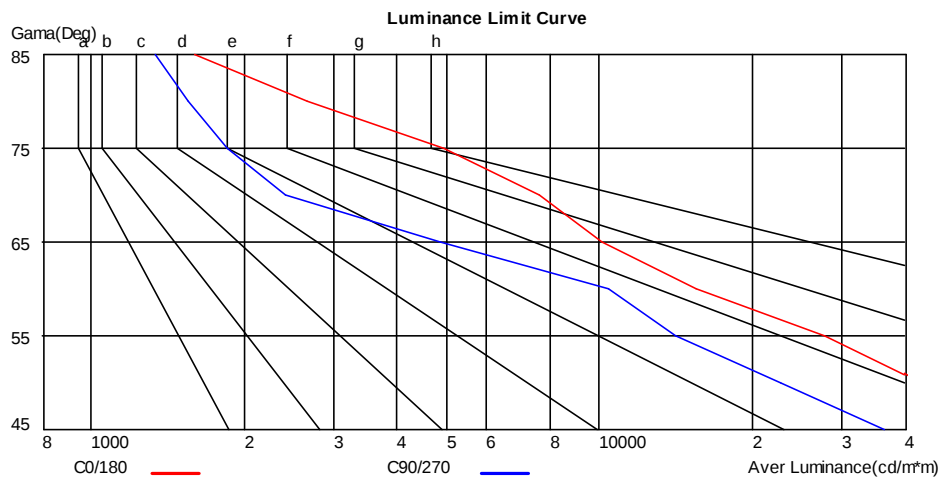
Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m ² m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	59363.0	42856.9	27893.7	15585.4	10103.3	7605.3	4929.9	2652.9	1595.0
C90	36455.0	22830.6	14150.7	10451.2	4876.5	2416.7	1846.8	1550.9	1339.7

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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

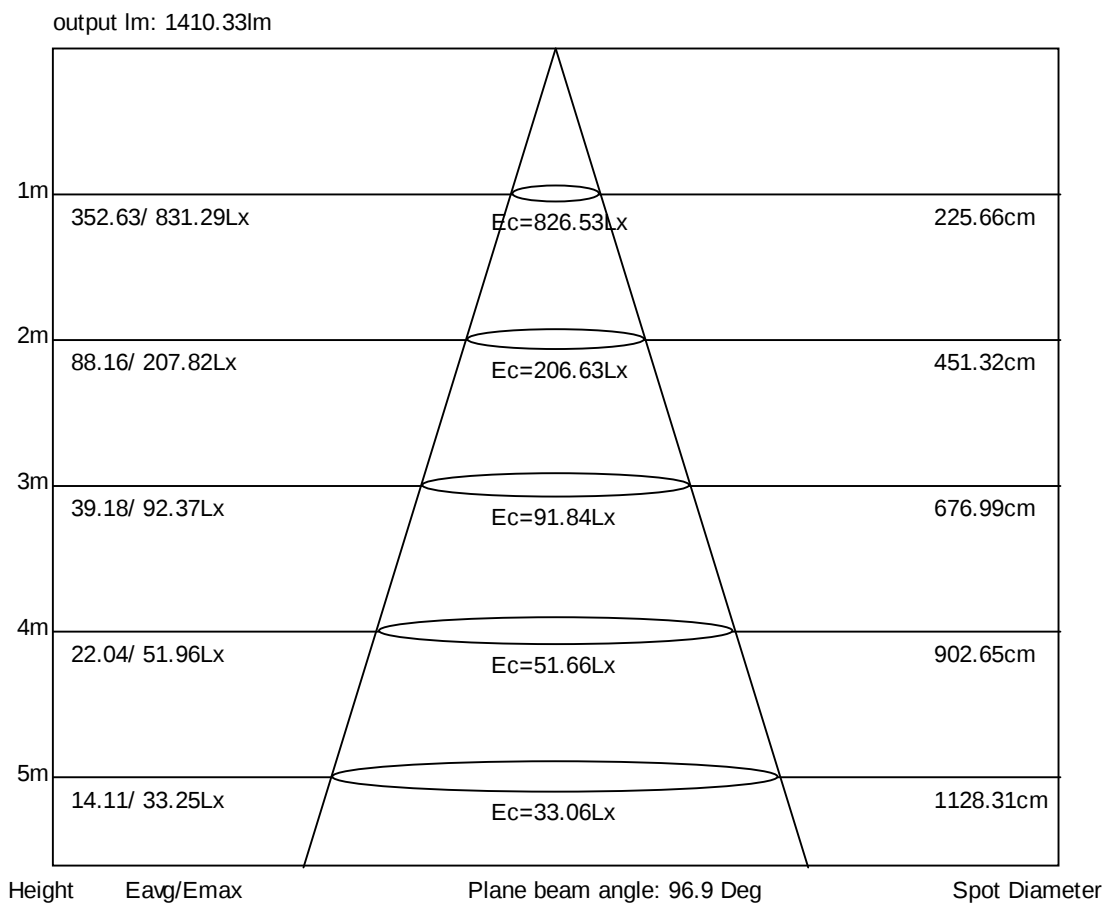
Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

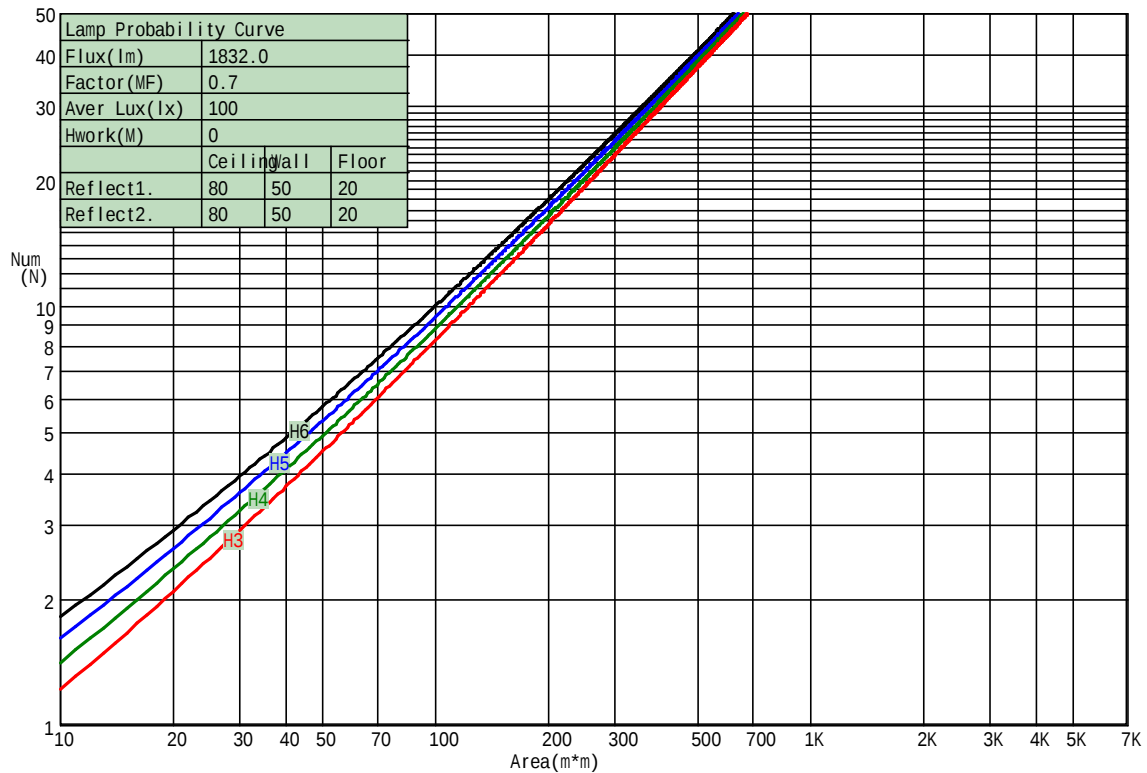
Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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	61	48	39	59	47	39	57	46	39
0.80	62	47	37	60	46	37	57	44	36
1.00	64	48	37	61	46	36	57	44	35
1.25	65	48	35	62	46	34	57	43	33
1.50	66	48	34	63	46	33	57	43	32
2.00	68	49	34	64	47	33	58	43	31
2.50	69	50	34	65	47	32	58	42	30
3.00	70	50	34	66	48	32	58	43	29
4.00	71	51	34	67	49	32	58	43	29
5.00	72	52	34	68	49	33	59	43	29

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	1.04	1	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.9
2	0.96	0.9	0.85	0.94	0.89	0.84	0.91	0.86	0.83	0.87	0.84	0.81	0.85	0.82	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	0.64	0.76	0.69	0.64	0.74	0.68	0.63	0.72	0.66	0.62	0.7	0.65	0.61
5	0.7	0.62	0.56	0.69	0.62	0.56	0.67	0.61	0.56	0.65	0.6	0.55	0.64	0.59	0.55
6	0.64	0.56	0.5	0.63	0.55	0.5	0.61	0.55	0.5	0.6	0.54	0.49	0.58	0.53	0.49
7	0.58	0.5	0.45	0.58	0.5	0.45	0.56	0.49	0.44	0.55	0.49	0.44	0.53	0.48	0.44
8	0.54	0.46	0.4	0.53	0.45	0.4	0.52	0.45	0.4	0.5	0.44	0.4	0.49	0.44	0.4
9	0.49	0.42	0.37	0.49	0.41	0.37	0.48	0.41	0.36	0.47	0.41	0.36	0.46	0.4	0.36
10	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.38	0.33	0.43	0.37	0.33	0.42	0.37	0.33

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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	0.25	0.14	0.04	0.24	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	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.2	0.11	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	0.19	0.1	0.03
5	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.1	0.03	0.18	0.09	0.03
6	0.19	0.1	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
7	0.18	0.09	0.03	0.18	0.09	0.02	0.17	0.09	0.02	0.16	0.08	0.02	0.16	0.08	0.02
8	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
9	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
10	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02	0.14	0.07	0.02	0.14	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	0.13	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	0.04	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	0.12	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	0.11	0.06	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.1	0.05	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	0.1	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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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	828	824	819	818	828	828	827	822	0-5	19.7	19.7
10	820	814	811	810	820	821	825	816	5-10	58.7	78.5
15	808	804	799	800	808	812	818	807	10-15	96.3	175
20	792	788	778	784	790	797	806	792	15-20	132	307
25	771	765	752	760	767	778	788	773	20-25	164	470
30	742	737	723	730	737	751	762	746	25-30	191	661
35	709	702	688	696	701	716	687	713	30-35	213	874
40	670	638	577	639	657	672	530	656	35-40	223	1097
45	594	510	365	514	556	602	486	492	40-45	213	1310
50	429	306	228	276	381	406	429	374	45-50	175	1485
55	279	172	142	156	226	214	325	212	50-55	122	1607
60	156	123	105	123	134	120	144	113	55-60	77.1	1684
65	101	98	48.8	95.9	101	87.6	87.2	85.9	60-65	52.1	1736
70	76.1	70.8	24.2	71.3	73.4	63	55.5	56.4	65-70	37.5	1774
75	49.3	46.7	18.5	44.4	45.5	33.7	31	32.3	70-75	25.8	1800
80	26.5	26.7	15.5	25.9	23	18.9	21	19.2	75-80	15.5	1815
85	15.9	17.3	13.4	17.2	14.1	13.4	14.9	13.7	80-85	9.8	1825
90	13	12.7	12.7	12.8	11.1	10.7	11	11	85-90	7.14	1832
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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-26

Remark:

Measured Para U: 227.2V I: 156.0mA P: 21.70W PF: 0.610 Test LM: 1832.01lm		
Lamp Name: LED FLOOD LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LPFL-20B02	Lamp Spec: LPFL-20B02	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	828	826	824	822	820	819	818	819	824	828	828	828	828	828	826	824	823	826
10.0	820	818	815	813	811	810	810	811	816	820	821	821	823	824	823	819	817	819
15.0	808	806	804	802	800	799	800	801	804	808	809	811	814	817	816	811	807	808
20.0	792	790	789	785	780	779	782	785	788	790	793	796	800	804	803	797	792	792
25.0	771	768	766	761	755	754	757	761	764	767	772	776	781	785	784	778	772	771
30.0	742	740	738	732	726	724	727	731	734	737	743	750	755	760	759	751	745	744
35.0	709	706	703	697	691	690	693	696	699	701	708	715	707	693	693	705	713	711
40.0	670	656	641	618	590	590	618	641	649	657	664	671	626	561	558	615	657	664
45.0	594	557	519	462	396	397	465	519	538	556	576	597	564	512	487	490	503	549
50.0	429	375	319	280	245	239	260	287	335	381	392	403	413	424	417	392	380	405
55.0	279	232	184	162	148	145	151	163	195	226	221	215	251	301	301	249	220	250
60.0	156	141	126	117	109	108	117	124	129	134	128	122	128	139	138	123	118	137
65.0	101	99.7	98.3	81.8	59.5	59.1	80.4	96.5	98.8	101	95.2	89	87.5	87.3	87	86.4	87.6	94.4
70.0	76.1	73.8	71.4	55.5	34.4	34.5	55.8	71.5	72.5	73.4	68.9	64.2	60.6	57.2	55.7	56.1	58.5	67.4
75.0	49.3	48.2	47	37.4	24.6	24.1	35.9	44.5	45	45.5	40.4	35	32.8	31.6	31.3	31.9	34.2	41.9
80.0	26.5	26.6	26.7	23	17.9	17.8	22.5	25.6	24.3	23	21.2	19.4	19.6	20.5	20.6	19.8	20	23.3
85.0	15.9	16.5	17.1	16	14.2	14.2	15.9	16.8	15.4	14.1	13.7	13.4	13.9	14.6	14.6	14.1	13.9	15
90.0	13	12.9	12.8	12.7	12.7	12.7	12.8	12.6	11.8	11.1	10.9	10.8	10.8	10.9	11	11	11.2	12.1
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): 7.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2026-1-26

Remark: