LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

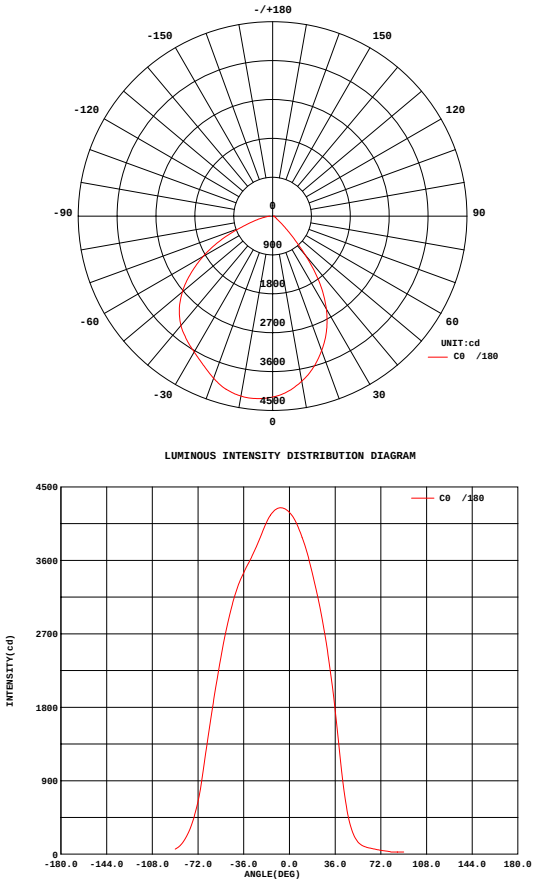


Fig. C0/C180

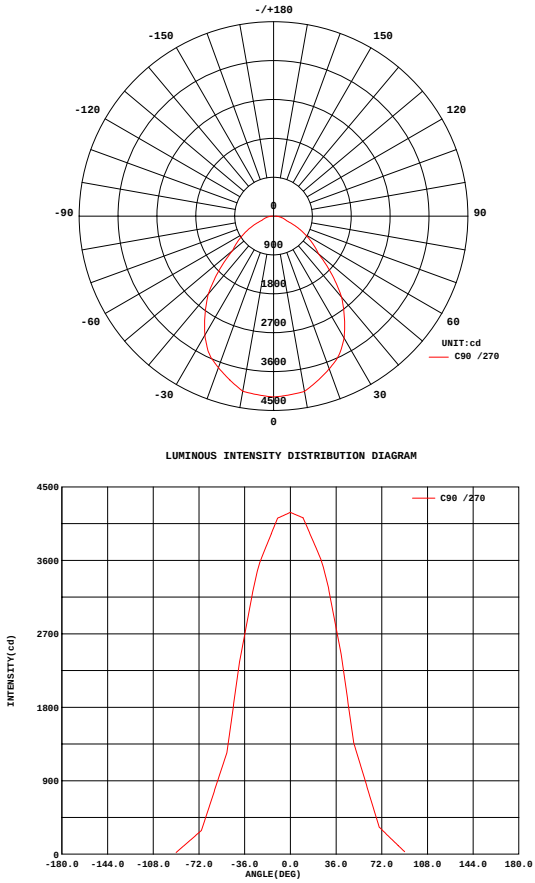


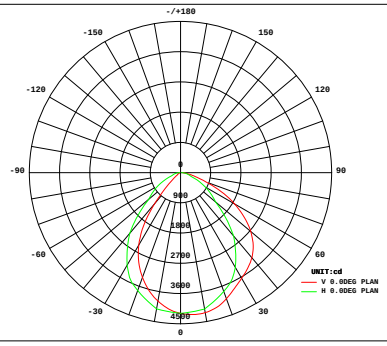
Fig. C90/C270

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: LED FLOOD LIGHT	TYPE:LED	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: SHENZHEN SHINENG LIGHTING	SURFACE:	PROTECTION ANGLE:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	SN-FL-100W	Imax(cd)	4245
NOMINAL POWER(W)	104	AVAILABILITY(%)	78.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	7874
NOMINAL FLUX(lm)	10000	EFFICIENCY(%)	82.5
LAMPS INSIDE	1	TOTAL FLUX(lm)	8248
TEST VOLTAGE(V)	220.3	θ @50%(H,V)	91,87DEG

AREA FLUX DIAGRAM UNIT:lm

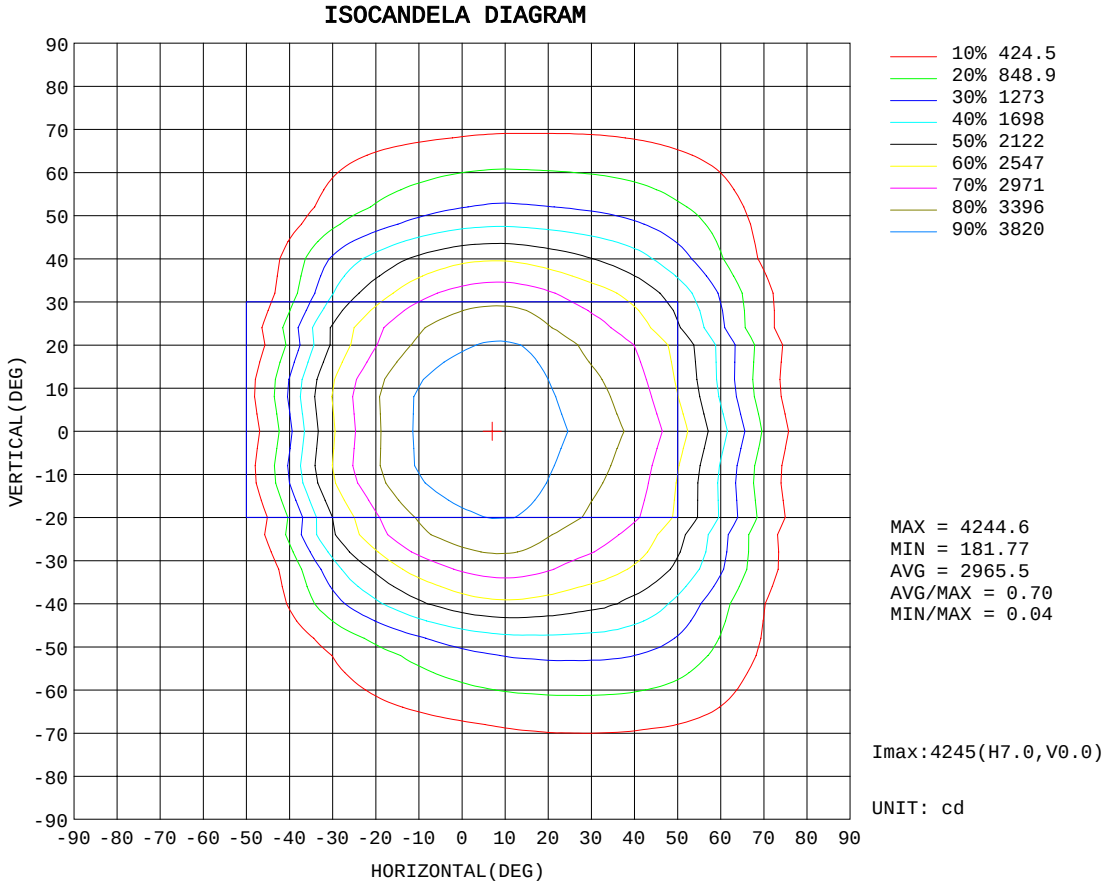
VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG) 20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.06	0.17	0.32	0.50	0.72	1.14	1.88	2.49	2.95	3.21	3.23	3.14	2.83	2.23	1.52	0.91	0.46	0.14	27.9	0.00
80	0.06	0.19	0.43	0.74	1.19	2.27	4.32	6.04	7.32	8.06	8.07	7.64	6.69	4.98	3.04	1.54	0.62	0.16	63.3	0.00
70	0.06	0.22	0.53	0.99	1.93	4.76	9.57	13.6	16.6	18.3	18.0	16.5	14.1	10.5	6.41	2.92	0.96	0.19	136	96.4
60	0.06	0.26	0.64	1.27	2.96	8.82	18.0	25.7	31.5	34.5	33.7	30.3	25.5	19.2	11.9	5.16	1.48	0.24	251	236
50	0.07	0.31	0.79	1.68	5.16	17.2	32.9	45.3	54.6	58.7	56.2	49.4	40.4	29.6	17.6	7.12	1.85	0.26	419	407
40	0.07	0.34	0.89	2.03	7.65	27.7	52.0	70.2	83.3	88.5	84.3	72.8	58.9	42.6	25.1	9.97	2.41	0.30	629	619
30	0.07	0.36	0.96	2.47	11.2	38.5	67.8	89.7	104	109	104	89.3	72.9	53.0	31.5	12.5	2.88	0.33	791	782
20	0.07	0.37	0.98	2.77	13.7	45.3	77.1	101	116	121	115	98.6	81.1	60.2	36.2	14.7	3.31	0.36	887	880
10	0.07	0.36	0.97	2.92	15.3	49.4	82.2	107	123	127	120	103	85.1	63.7	38.6	15.9	3.54	0.38	938	931
0	0.07	0.34	0.92	2.79	14.9	48.9	81.7	106	122	127	120	103	85.2	64.0	38.9	16.2	3.63	0.39	937	929
-10	0.07	0.31	0.85	2.57	13.5	44.8	76.6	100	115	121	114	98.6	81.6	60.8	36.7	15.0	3.40	0.37	886	878
-20	0.06	0.28	0.75	2.06	10.1	36.1	65.2	87.9	102	108	103	89.6	74.3	55.0	33.1	13.4	3.16	0.36	785	777
-30	0.06	0.24	0.64	1.52	6.38	23.8	46.9	65.8	79.7	86.4	83.9	73.8	61.4	45.6	27.4	11.2	2.81	0.34	618	609
-40	0.06	0.21	0.53	1.19	4.06	13.9	27.7	40.4	50.9	57.0	56.9	52.0	44.3	33.4	20.0	8.29	2.24	0.30	413	402
-50	0.06	0.18	0.41	0.81	1.94	6.09	13.5	21.0	27.5	32.1	33.6	32.3	28.8	22.6	14.3	6.40	1.91	0.29	244	228
-60	0.06	0.17	0.31	0.60	1.21	3.26	7.10	11.0	14.6	17.3	18.5	18.0	16.0	12.7	8.31	3.95	1.29	0.22	135	98.1
-70	0.06	0.18	0.28	0.47	0.72	1.41	2.88	4.40	5.88	7.23	8.08	8.07	7.26	5.90	4.10	2.18	0.84	0.18	60.1	0.00
-80	0.07	0.19	0.30	0.43	0.58	0.86	1.39	1.93	2.43	2.87	3.22	3.29	3.11	2.67	1.95	1.17	0.56	0.16	27.2	0.00
-90																				
Φ t	1.17	4.68	11.5	27.8	113	374	669	900	1060	1127	1084	950	789	589	357	148	37.4	4.96	8248	---
Φ a	0.00	0.00	0.00	0.00	71.4	345	642	876	1035	1101	1058	924	767	569	340	131	13.7	0.00	---	7874

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W

ISOCANDELA DIAGRAM

NAME: LED FLOOD LIGHT	TYPE:LED	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: SHENZHEN SHINENG LIGHTING	SURFACE:	PROTECTION ANGLE:

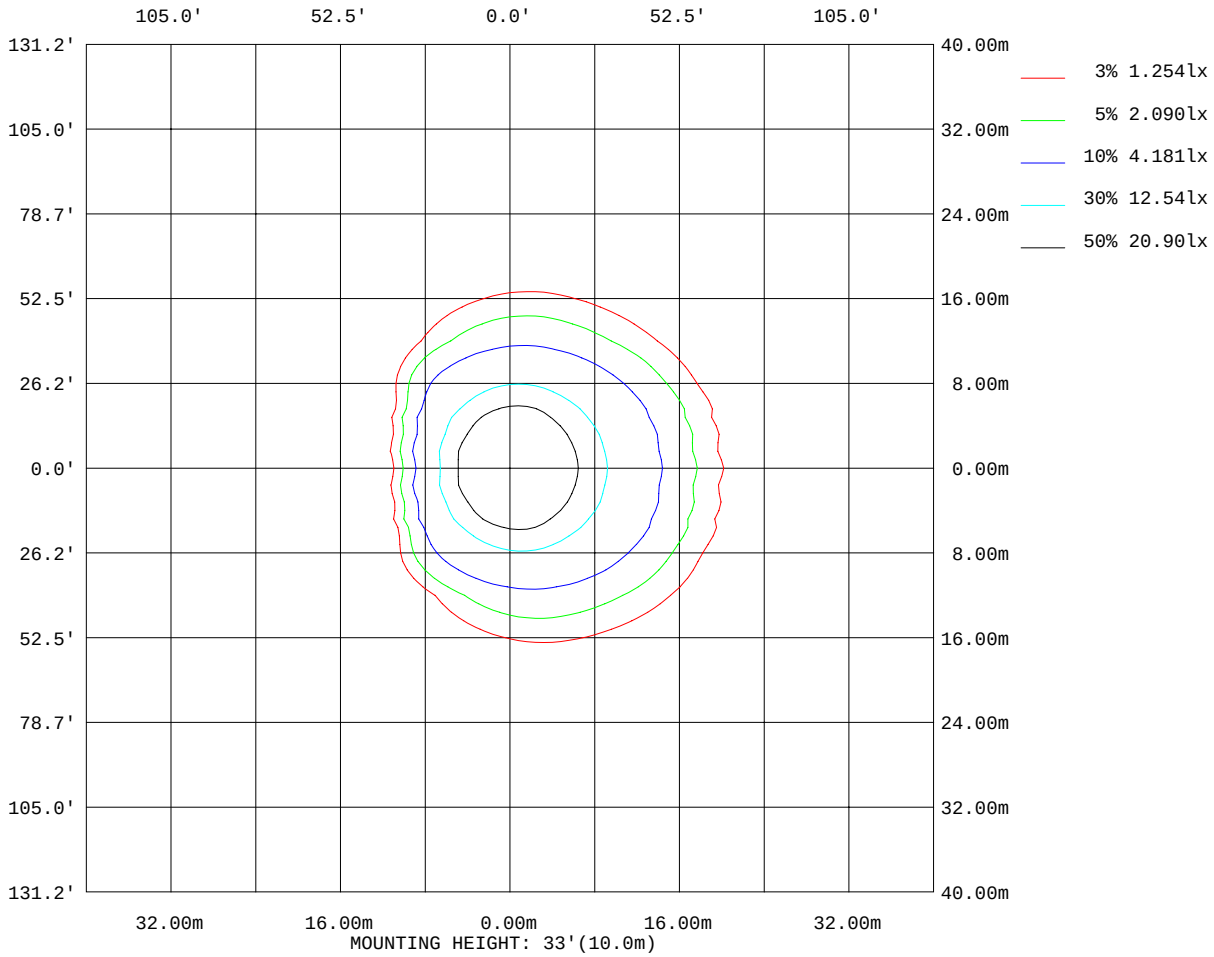


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W

ISOLUX DIAGRAM

NAME: LED FLOOD LIGHT	TYPE:LED	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: SHENZHEN SHINENG LIGHTING	SURFACE:	PROTECTION ANGLE:



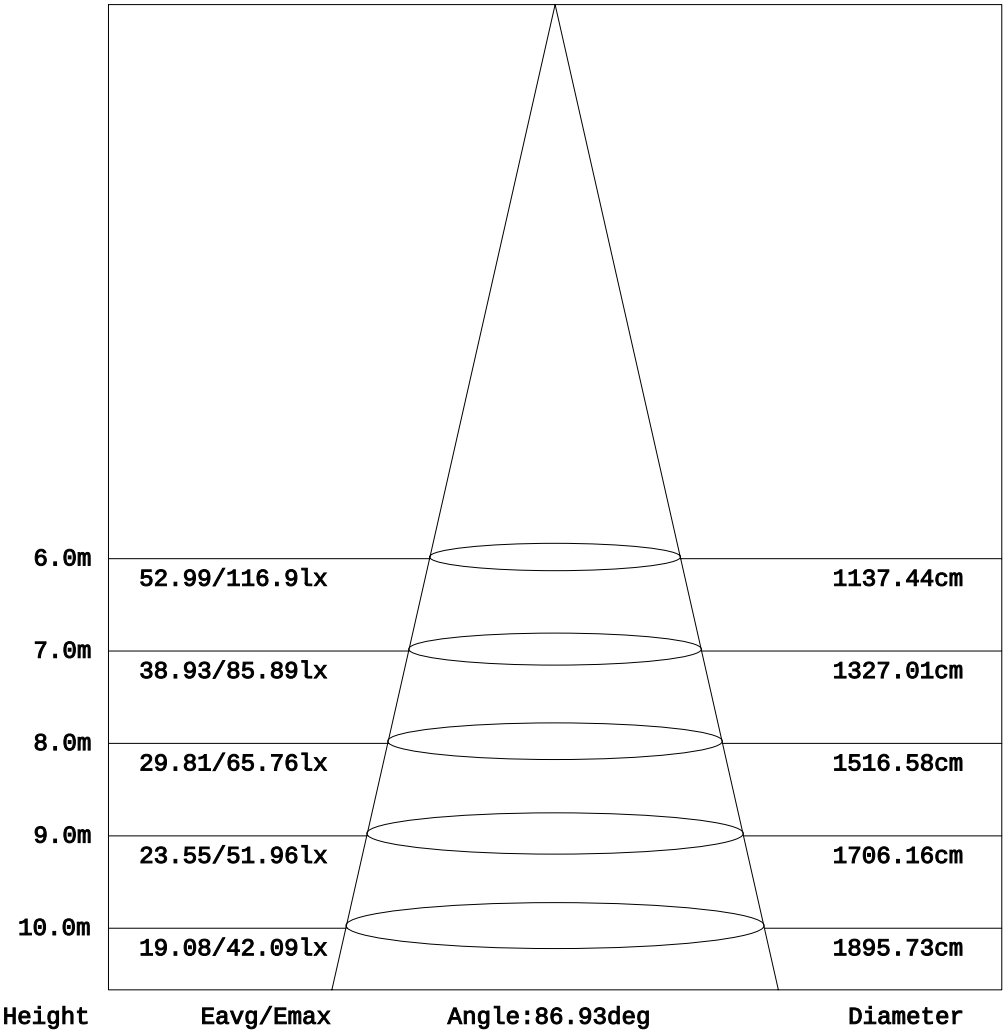
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W

AAI Figure

NAME: LED FLOOD LIGHT	TYPE:LED	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: SHENZHEN SHINENG LIGHTING	SURFACE:	PROTECTION ANGLE:

Flux out:5397 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LED FLOOD LIGHT	TYPE:LED	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: SHENZHEN SHINENG LIGHTING	SURFACE:	PROTECTION ANGLE:

Table--1 UNIT: cd

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	25.1	25.1	25.0	24.8	24.7	24.4	24.2	23.9	23.6	23.2	22.9	22.5	22.2	21.7	21.3	20.9	20.5	20.0	19.6
-85	25.0	24.8	24.6	24.3	23.9	23.6	23.9	24.7	25.3	26.0	27.6	31.6	37.9	45.0	50.9	56.6	62.2	68.1	73.8
-80	24.9	24.4	23.9	23.4	22.9	22.4	23.6	25.9	27.9	30.1	34.8	45.2	61.4	79.9	95.2	110	125	140	155
-75	24.8	24.2	23.5	22.9	22.2	21.5	23.4	26.7	29.6	32.8	39.5	54.3	77.1	103	125	146	167	188	209
-70	24.7	23.8	22.9	22.0	21.1	20.3	23.0	27.9	32.2	37.0	46.6	67.8	101	138	169	200	229	261	291
-65	24.8	23.8	22.8	21.8	22.6	23.2	26.9	32.7	39.1	50.2	73.4	115	174	234	288	340	388	437	481
-60	24.9	23.8	22.6	21.5	24.8	27.5	32.6	39.8	49.5	70.2	113	185	284	378	466	550	627	701	767
-55	25.0	23.9	22.5	21.4	26.3	30.4	36.4	44.6	56.4	83.4	140	232	357	474	585	690	787	878	957
-50	25.2	23.9	22.4	21.1	28.6	34.7	42.1	51.8	66.8	103	180	303	467	618	763	901	1026	1142	1243
-45	25.1	23.6	22.1	24.5	31.9	39.4	48.6	61.6	90.5	160	293	499	724	926	1109	1278	1435	1569	1687
-40	24.9	23.2	21.7	29.6	36.8	46.3	58.3	76.3	126	244	463	792	1111	1389	1626	1843	2049	2210	2353
-35	25.3	23.6	22.1	30.2	37.9	48.2	60.9	80.6	136	271	532	926	1317	1648	1911	2163	2381	2546	2686
-30	25.7	24.2	22.6	31.2	39.6	51.1	64.8	87.0	150	310	636	1126	1625	2036	2339	2644	2879	3050	3184
-25	25.6	23.9	24.2	35.0	45.1	58.1	74.5	110	214	449	896	1466	1970	2359	2691	2978	3196	3344	3466
-20	26.1	24.7	23.3	34.7	44.8	58.5	74.6	107	200	434	893	1542	2128	2546	2916	3211	3433	3610	3735
-15	26.2	24.8	26.6	37.5	48.8	63.4	82.1	125	249	537	1085	1741	2305	2732	3083	3378	3601	3770	3887
-10	26.4	24.9	31.6	41.6	54.8	70.6	93.2	153	321	692	1373	2040	2571	3010	3334	3630	3854	4011	4117
-5	26.8	25.5	29.9	41.2	54.2	70.1	91.4	145	297	645	1296	1990	2539	2985	3326	3632	3865	4036	4145
0	27.4	26.4	27.2	40.7	53.2	69.4	88.6	133	262	573	1180	1916	2490	2948	3315	3634	3881	4074	4188
5	27.4	26.6	30.6	43.0	56.3	72.7	93.6	145	289	626	1261	1969	2527	2974	3328	3639	3874	4052	4161
10	27.6	26.9	35.7	46.4	60.8	77.8	101	162	331	705	1382	2048	2582	3014	3348	3646	3863	4020	4121
15	27.6	27.1	33.2	45.2	58.9	75.4	96.9	148	289	611	1210	1875	2422	2851	3190	3484	3703	3871	3978
20	27.6	27.4	29.5	43.4	55.9	71.9	90.6	127	226	469	952	1616	2181	2608	2953	3242	3464	3648	3764
25	27.3	27.4	34.7	46.0	59.4	75.6	95.6	138	252	520	1025	1658	2168	2548	2859	3139	3345	3502	3614
30	26.8	27.0	28.8	42.3	53.6	68.4	85.6	112	182	350	703	1235	1771	2168	2470	2739	2983	3155	3266
35	26.4	26.8	29.5	42.5	53.6	67.9	84.5	109	174	329	649	1126	1592	1945	2214	2457	2672	2832	2941
40	25.7	26.4	30.6	42.8	53.5	67.0	83.0	106	162	298	568	962	1324	1612	1829	2035	2205	2347	2453
45	25.0	25.7	28.6	39.7	49.6	61.6	75.8	95.3	137	239	442	746	1049	1290	1479	1652	1798	1923	2016
50	23.9	24.6	25.7	35.0	43.7	53.3	65.2	79.4	101	150	254	424	637	807	953	1078	1187	1286	1362
55	23.4	24.1	25.1	32.8	41.1	50.0	60.6	73.2	91.7	133	219	361	540	686	810	915	1008	1092	1155
60	22.7	23.3	24.3	29.5	37.2	45.1	53.7	63.9	78.2	108	168	267	395	504	595	671	739	800	846
65	22.3	22.9	23.7	27.3	34.6	41.8	49.2	57.7	69.2	90.5	133	204	298	383	451	509	559	605	640
70	21.5	22.1	22.9	24.0	30.7	36.8	42.3	48.4	55.7	64.9	81.1	110	153	202	236	265	290	313	331
75	21.4	21.8	22.4	23.3	28.7	33.7	38.2	43.2	49.1	56.5	69.6	92.7	128	167	194	218	238	256	271
80	21.1	21.4	21.8	22.3	25.8	29.1	32.1	35.3	39.1	44.0	52.4	67.1	89.7	114	132	146	159	171	180
85	20.9	21.1	21.3	21.7	23.9	26.0	28.0	30.1	32.5	35.6	41.0	50.1	64.2	79.3	89.9	99.1	107	114	120
90	20.7	20.6	20.7	20.7	21.0	21.4	21.8	22.3	22.5	23.0	23.8	24.5	25.9	26.7	27.3	28.0	28.7	29.3	29.9

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: LED FLOOD LIGHT	TYPE:LED	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:
MANUFACTURER: SHENZHEN SHINENG LIGHTING	SURFACE:	PROTECTION ANGLE:

Table--2 UNIT: cd

H(DEG) / V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	19.2	19.8	23.8	27.0	29.5	32.0	38.7	44.4	46.5	46.8	47.3	49.6	51.2	52.3	53.4	54.1	54.9	55.5
-85	79.7	85.5	92.9	98.5	101	104	108	110	109	105	98.3	91.3	82.6	74.1	66.5	60.7	57.3	55.6
-80	171	184	196	206	209	212	212	209	202	194	175	154	130	107	86.1	70.6	60.9	55.8
-75	231	250	266	277	281	284	282	275	264	252	226	196	161	129	99.1	77.2	63.3	56.0
-70	322	349	369	384	389	392	386	374	357	340	302	258	209	162	119	87.2	66.9	56.2
-65	522	556	579	595	599	601	592	574	543	505	439	365	281	208	148	103	73.0	57.1
-60	823	868	893	912	914	914	902	873	822	752	645	525	389	277	191	126	82.1	58.4
-55	1024	1076	1103	1123	1124	1122	1109	1073	1009	916	782	631	461	323	220	141	88.2	59.3
-50	1325	1388	1417	1439	1439	1435	1419	1373	1288	1163	988	791	569	393	264	164	97.3	60.6
-45	1769	1821	1830	1820	1793	1757	1707	1624	1504	1335	1112	869	612	410	267	161	92.2	58.7
-40	2435	2471	2449	2392	2323	2240	2140	2000	1829	1594	1297	987	676	436	272	156	84.7	55.7
-35	2772	2806	2775	2697	2600	2506	2395	2248	2059	1810	1499	1157	801	510	315	181	95.9	57.3
-30	3277	3309	3263	3155	3015	2906	2778	2618	2405	2135	1802	1413	989	622	380	217	113	59.8
-25	3531	3529	3460	3324	3189	3067	2928	2745	2491	2187	1824	1390	940	574	340	189	93.6	55.9
-20	3814	3827	3772	3641	3476	3330	3200	3026	2783	2467	2093	1653	1167	717	422	236	117	59.9
-15	3950	3942	3869	3723	3550	3400	3261	3077	2821	2493	2094	1640	1138	687	400	219	107	58.2
-10	4153	4115	4014	3846	3662	3506	3353	3153	2877	2531	2096	1621	1094	644	367	193	91.6	55.7
-5	4188	4161	4069	3906	3719	3556	3404	3214	2949	2610	2185	1712	1190	706	404	216	104	58.5
0	4240	4230	4152	3996	3803	3633	3481	3306	3058	2730	2318	1850	1334	799	460	249	123	62.6
5	4207	4192	4105	3943	3751	3582	3428	3242	2983	2643	2226	1752	1231	733	420	226	111	61.0
10	4157	4136	4034	3863	3673	3506	3348	3145	2869	2513	2088	1604	1077	633	360	191	92.4	58.7
15	4031	4026	3938	3777	3588	3423	3269	3073	2808	2466	2061	1597	1089	650	373	202	100	60.5
20	3843	3860	3793	3648	3460	3299	3151	2965	2715	2397	2020	1586	1107	675	394	218	112	63.2
25	3671	3667	3583	3426	3262	3107	2954	2747	2476	2165	1791	1358	906	549	319	175	91.3	59.6
30	3345	3362	3303	3183	3026	2870	2721	2527	2292	2020	1689	1311	910	564	336	193	104	63.3
35	3006	3017	2959	2850	2716	2574	2436	2258	2041	1788	1483	1140	781	488	293	169	94.2	61.4
40	2497	2500	2442	2351	2250	2130	2007	1853	1664	1440	1173	884	588	373	228	133	79.6	58.5
45	2061	2072	2029	1963	1890	1801	1705	1585	1434	1251	1039	797	540	350	220	132	81.3	59.4
50	1407	1430	1410	1382	1349	1307	1253	1184	1089	968	838	667	468	317	207	130	83.9	60.6
55	1194	1214	1199	1177	1151	1116	1071	1013	930	825	714	569	403	275	183	119	79.3	59.1
60	875	892	883	869	854	830	799	755	691	612	526	422	305	213	146	101	72.3	56.9
65	663	677	672	664	656	640	617	584	533	469	402	323	239	171	122	89.3	67.7	55.4
70	344	354	356	357	358	354	345	327	294	255	215	176	141	109	85.9	71.6	60.8	53.2
75	282	289	291	292	294	291	284	270	244	213	181	150	123	96.9	78.6	67.3	58.7	52.8
80	187	193	194	195	198	196	193	185	169	150	130	112	94.8	78.9	67.6	60.8	55.6	52.1
85	125	128	129	131	134	133	132	128	119	108	96.7	85.9	76.1	66.9	60.3	56.4	53.6	51.6
90	30.4	31.4	32.5	34.0	37.4	39.0	40.7	42.3	43.7	45.0	46.2	47.2	48.2	48.8	49.3	49.9	50.5	50.9

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Lyc
Test Date:2017-12-24

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65.0%
Test Distance:11.300m [K=1.0000]
Remarks:SN-FL-100W