LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

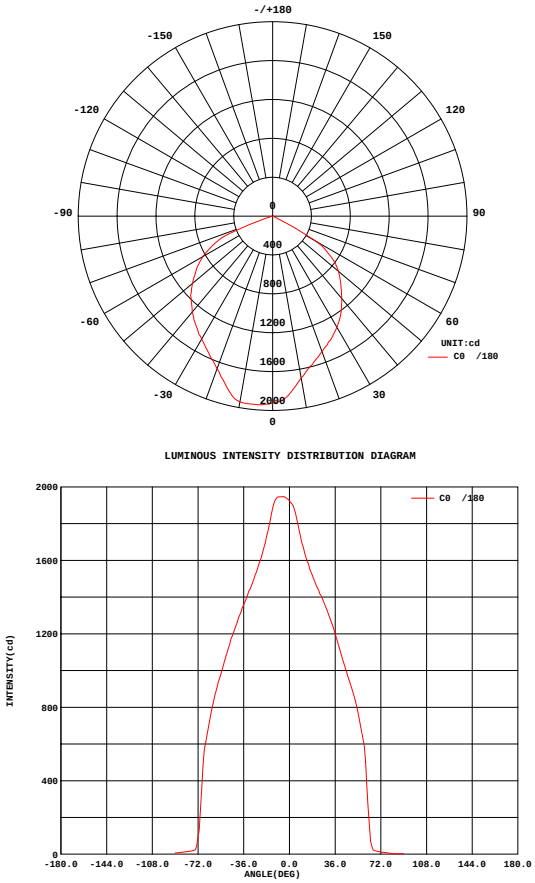


Fig. C0/C180

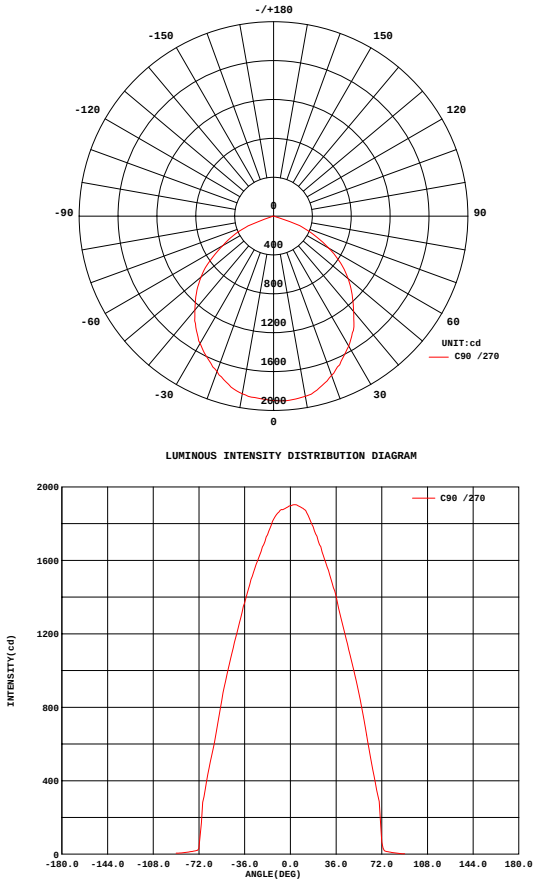


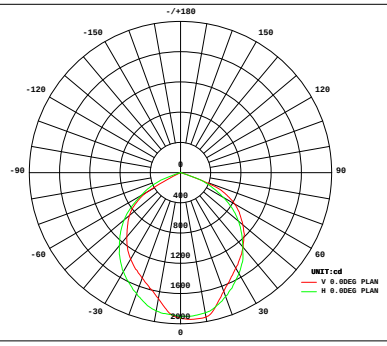
Fig. C90/C270

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:30DEG
Operators:Lyc
Test Date:2017-01-16

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:10.300m [K=0.9612]
Remarks:SN-FL-50W

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-50W	Imax(cd)	1946
NOMINAL POWER(W)	56	AVAILABILITY(%)	85.1
RATED VOLTAGE(V)	226	Avai. FLUX(lm)	4255
NOMINAL FLUX(lm)	5000.0	EFFICIENCY(%)	86.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	4305
TEST VOLTAGE(V)	225.0	θ @50%(H,V)	101,102DEG

AREA FLUX DIAGRAM UNIT:lm

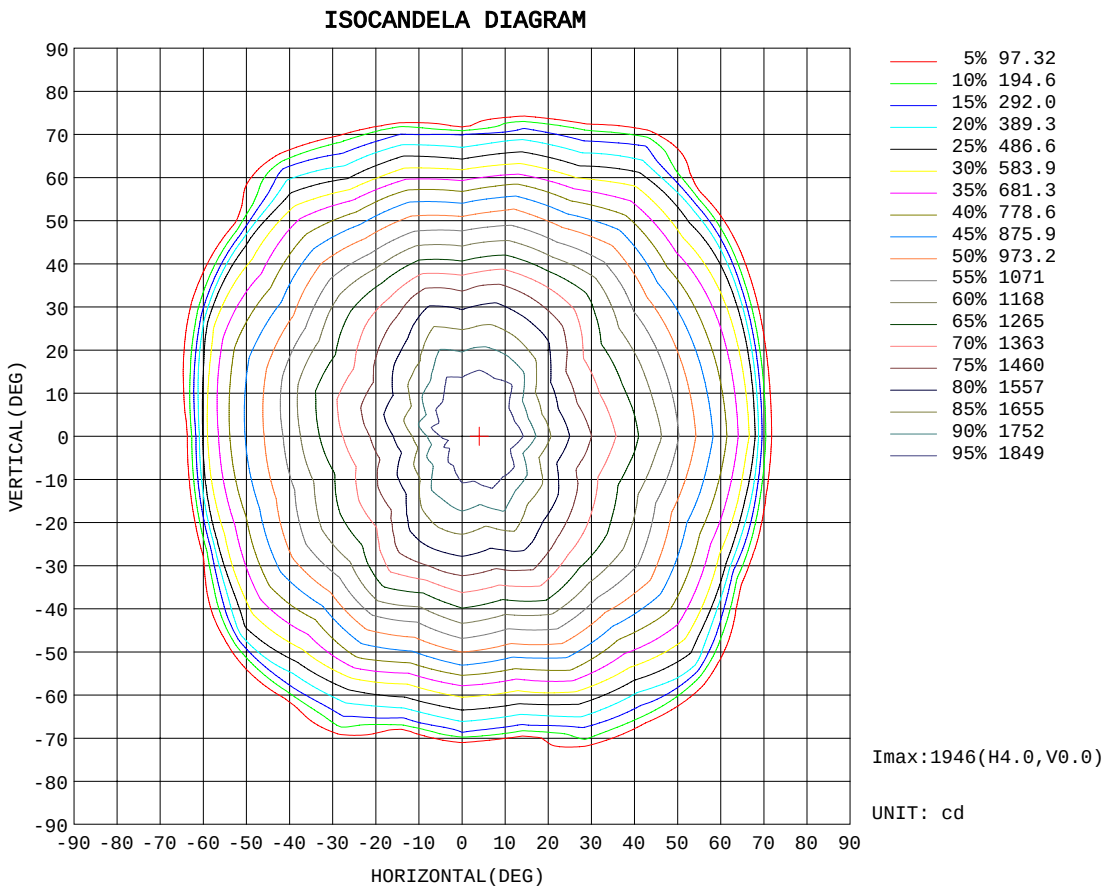
VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG) 20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.01	0.02	0.03	0.05	0.07	0.09	0.11	0.15	0.15	0.17	0.19	0.15	0.13	0.12	0.07	0.04	0.03	0.01	1.58	0.00
80	0.01	0.02	0.04	0.10	0.19	0.28	0.77	1.95	1.89	2.36	3.18	2.08	1.27	0.53	0.15	0.08	0.04	0.02	15.0	6.69
70	0.01	0.03	0.08	0.21	1.99	5.93	9.52	13.5	14.4	14.9	14.9	12.1	9.79	5.83	0.78	0.13	0.06	0.02	104	99.7
60	0.01	0.04	0.13	0.69	7.39	14.4	18.8	23.9	25.7	26.2	25.5	21.3	17.4	11.9	3.87	0.24	0.08	0.02	197	195
50	0.01	0.05	0.19	3.48	13.1	20.6	26.6	32.1	34.8	35.3	33.6	28.9	23.5	16.2	8.96	1.38	0.10	0.02	279	277
40	0.01	0.07	0.58	8.35	16.5	24.8	32.5	39.2	43.4	43.9	41.2	35.2	27.6	19.3	12.0	3.76	0.13	0.02	349	347
30	0.01	0.07	1.47	11.5	19.3	27.6	36.3	43.9	49.8	50.3	46.6	39.0	30.0	22.0	14.1	5.84	0.20	0.03	398	397
0	0.01	0.08	2.05	12.6	21.2	30.0	38.1	46.3	54.0	55.6	50.2	40.2	31.9	23.9	15.6	7.22	0.33	0.03	429	428
-30	0.01	0.08	2.00	12.9	21.6	30.8	39.3	47.2	55.8	57.7	51.8	42.0	33.6	25.2	16.5	7.95	0.44	0.03	445	444
-40	0.01	0.08	1.67	12.5	21.1	29.8	37.9	45.8	54.5	57.6	51.7	42.0	33.5	24.9	16.3	7.70	0.42	0.03	438	437
-50	0.01	0.08	1.15	11.4	20.1	28.6	36.9	44.7	52.5	54.0	49.3	40.9	31.9	23.3	15.0	6.42	0.28	0.03	416	415
-60	0.01	0.07	0.50	9.27	18.7	27.0	34.4	42.8	48.0	48.2	45.7	38.3	30.3	21.9	13.4	4.41	0.18	0.03	383	382
-70	0.01	0.07	0.30	6.67	16.3	23.2	30.7	37.5	40.9	41.6	39.7	34.0	26.7	19.6	11.5	2.15	0.13	0.03	331	329
-80	0.01	0.06	0.20	3.55	12.2	18.1	25.2	29.5	32.7	33.3	31.4	28.0	21.4	15.6	8.63	0.96	0.11	0.02	261	259
-90	0.01	0.05	0.15	0.58	5.25	11.7	17.2	20.0	22.9	23.5	21.8	20.1	15.1	10.2	4.22	0.31	0.09	0.02	173	170
Φ t	0.01	0.05	0.11	0.21	0.46	3.54	7.55	8.48	11.5	12.3	10.7	10.4	7.34	2.99	0.51	0.17	0.07	0.02	76.3	68.0
Φ a	0.01	0.04	0.09	0.14	0.20	0.29	0.45	0.48	0.80	0.86	0.71	1.27	0.60	0.27	0.20	0.12	0.06	0.02	6.63	0.00
	0.01	0.04	0.07	0.10	0.13	0.16	0.19	0.20	0.23	0.23	0.21	0.22	0.19	0.15	0.13	0.09	0.05	0.02	2.42	0.00
	0.15	1.00	10.8	94.3	196	297	392	478	544	558	518	436	342	244	142	49.0	2.79	0.42	4305	---
	0.00	0.00	5.94	90.1	192	294	389	475	541	555	516	433	339	241	139	44.7	0.00	0.00	---	4255

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:30DEG
Operators:Lyc
Test Date:2017-01-16

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:10.300m [K=0.9612]
Remarks:SN-FL-50W

ISOCANDELA DIAGRAM

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

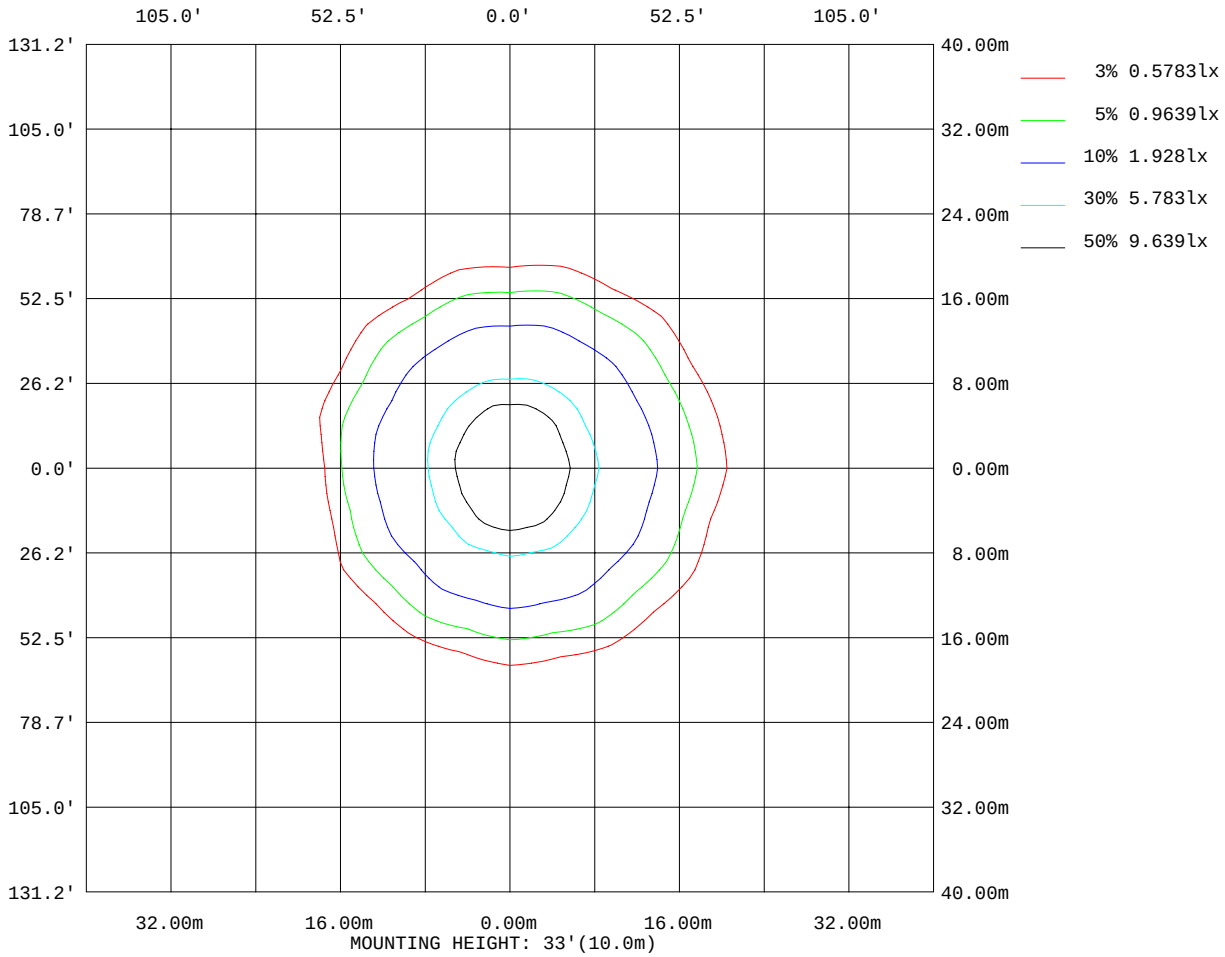


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:30DEG
Operators:Lyc
Test Date:2017-01-16

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:10.300m [K=0.9612]
Remarks:SN-FL-50W

ISOLUX DIAGRAM

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



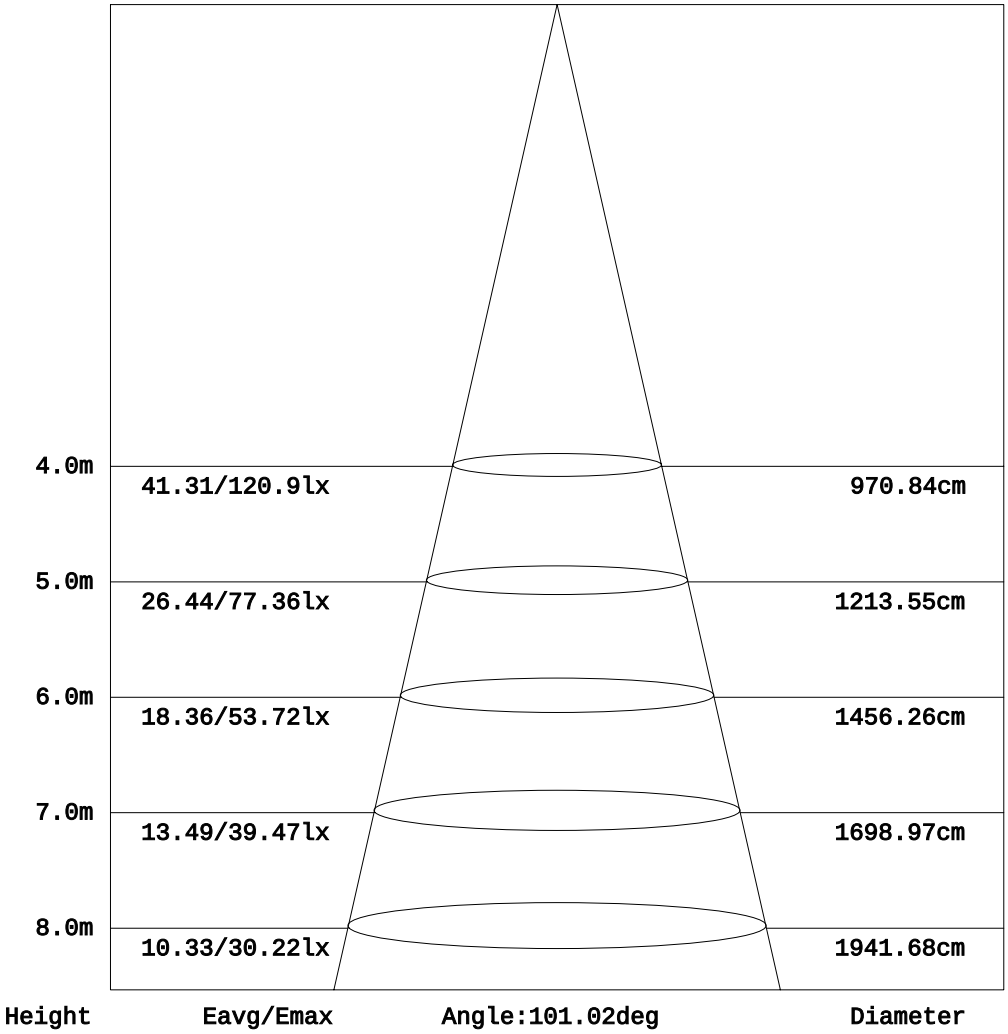
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:30DEG
Operators:Lyc
Test Date:2017-01-16

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:10.300m [K=0.9612]
Remarks:SN-FL-50W

AAI Figure

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

Flux out:3167 lm



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

H(β) Range:-90 - 90DEG	V(B) Range:-90 - 90DEG
H(β) Interval: 0.5DEG	V(B) Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Temperature:30DEG	Humidity:65%
Operators:Lyc	Test Distance:10.300m [K=0.9612]
Test Date:2017-01-16	Remarks:SN-FL-50W

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

V(DEG) \ H(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	2.17	3.33	4.49	5.65	5.66	5.66	5.67	5.67	5.67	5.67	5.72	5.77	5.82	5.80	5.77	5.75	5.77	5.79	5.81
-85	2.17	3.33	4.48	5.64	5.70	5.74	5.78	5.79	5.80	5.81	5.92	6.09	6.31	6.25	6.13	5.97	6.39	6.84	7.28
-80	2.17	3.32	4.48	5.65	5.76	5.88	6.16	6.30	6.41	6.49	7.39	8.35	9.30	9.33	9.25	9.11	10.1	11.1	12.0
-75	2.17	3.30	4.46	5.64	5.91	6.43	7.44	8.07	8.56	9.04	10.2	11.6	12.9	13.3	13.6	13.8	15.2	16.7	18.0
-70	2.17	3.28	4.43	5.59	6.32	7.52	9.03	10.1	11.0	11.8	13.1	15.8	33.6	70.0	63.9	29.7	60.3	116	171
-65	2.17	3.25	4.39	5.64	7.01	8.79	10.7	12.1	13.4	14.8	34.4	124	241	292	304	303	345	394	435
-60	2.17	3.22	4.32	5.88	7.93	10.1	12.3	14.4	16.6	41.6	176	323	402	457	484	499	530	569	601
-55	2.17	3.17	4.29	6.28	8.90	11.4	14.1	17.5	71.4	251	377	472	556	631	662	677	708	759	797
-50	2.17	3.12	4.33	6.80	9.86	12.8	16.2	53.3	261	449	529	609	704	802	840	861	888	937	975
-45	2.17	3.07	4.40	7.30	10.7	14.2	22.2	160	477	572	649	714	817	917	983	1008	1027	1081	1124
-40	2.17	3.00	4.51	7.78	11.6	15.6	47.4	293	556	673	756	824	918	1023	1117	1144	1155	1214	1262
-35	2.17	2.93	4.63	8.22	12.4	17.0	71.5	383	628	768	851	931	1005	1114	1224	1283	1305	1352	1395
-30	2.17	2.86	4.79	8.57	13.0	18.4	86.3	500	687	825	935	1022	1096	1181	1305	1404	1447	1487	1513
-25	2.17	2.78	4.90	8.88	13.5	20.0	165	570	736	872	989	1090	1168	1243	1345	1473	1542	1591	1612
-20	2.17	2.70	4.97	9.12	14.0	21.8	267	614	773	907	1025	1127	1222	1300	1375	1495	1607	1678	1702
-15	2.17	2.61	4.99	9.30	14.4	25.0	363	659	814	931	1040	1147	1245	1344	1427	1506	1645	1742	1793
-10	2.17	2.51	4.95	9.36	14.6	34.1	437	695	848	961	1064	1161	1255	1355	1452	1551	1645	1808	1856
-5	2.17	2.42	4.85	9.31	14.6	39.8	484	722	871	981	1090	1198	1289	1374	1448	1543	1688	1804	1879
0	2.17	2.32	4.69	9.14	14.5	41.9	501	737	883	992	1107	1224	1321	1409	1485	1580	1690	1852	1925
5	2.17	2.33	4.77	9.28	14.9	65.0	511	745	888	1000	1121	1241	1339	1431	1521	1616	1715	1875	1902
10	2.17	2.34	4.80	9.30	15.0	80.3	502	742	884	997	1122	1247	1335	1418	1492	1582	1726	1831	1883
15	2.17	2.35	4.76	9.19	14.9	84.2	486	732	873	983	1103	1209	1294	1372	1470	1581	1674	1806	1828
20	2.17	2.35	4.66	8.96	14.6	77.2	472	714	846	947	1053	1158	1248	1350	1449	1541	1633	1754	1743
25	2.17	2.35	4.50	8.65	14.0	51.5	405	669	797	897	996	1104	1217	1319	1411	1494	1591	1661	1646
30	2.17	2.33	4.28	8.25	13.3	25.2	283	605	732	834	933	1055	1171	1265	1348	1435	1521	1561	1545
35	2.17	2.31	4.01	7.73	12.4	19.3	164	530	658	757	879	997	1104	1183	1256	1338	1421	1444	1434
40	2.17	2.30	3.73	7.09	11.4	16.5	59.4	356	574	691	811	923	1013	1079	1143	1220	1289	1295	1283
45	2.17	2.28	3.44	6.43	10.3	14.0	19.1	154	476	617	730	834	904	966	1029	1093	1142	1151	1144
50	2.17	2.27	3.12	5.77	9.06	11.8	15.2	27.3	248	515	637	723	778	835	905	967	1006	1009	1002
55	2.17	2.25	2.84	5.02	7.57	9.90	12.2	15.0	122	332	515	579	629	677	757	824	855	854	843
60	2.17	2.24	2.65	4.24	6.30	8.12	9.84	13.5	71.1	223	377	426	461	502	576	642	668	664	651
65	2.17	2.22	2.46	3.45	4.99	6.42	7.77	9.72	15.6	55.5	168	257	300	351	414	471	484	475	459
70	2.17	2.21	2.34	2.90	3.72	4.78	5.82	7.55	9.75	12.3	15.5	26.7	59.4	150	230	286	290	291	287
75	2.17	2.21	2.28	2.46	2.81	3.23	3.83	5.40	7.11	8.83	9.53	9.97	10.3	11.9	14.1	18.7	19.6	18.5	16.4
80	2.17	2.20	2.24	2.32	2.38	2.46	2.49	3.39	4.56	5.87	6.12	6.17	6.15	7.37	8.70	9.98	9.92	9.73	9.46
85	2.17	2.20	2.23	2.26	2.27	2.27	2.27	2.41	2.67	3.05	3.04	2.98	2.90	3.66	4.43	5.20	4.97	4.68	4.37
90	2.17	2.19	2.21	2.22	2.23	2.23	2.23	2.25	2.27	2.29	2.29	2.29	2.28	2.31	2.34	2.37	2.37	2.37	2.36

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:30DEG
Operators:Lyc
Test Date:2017-01-16

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:10.300m [K=0.9612]
Remarks:SN-FL-50W

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

V(DEG) \ H(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	5.82	5.82	5.82	5.85	5.88	5.91	5.89	5.88	5.86	5.90	5.94	5.98	5.96	5.95	5.94	6.14	6.34	6.54
-85	7.02	6.76	6.49	7.06	7.58	8.01	7.58	7.12	6.65	6.89	7.12	7.30	6.76	6.33	6.01	6.30	6.50	6.54
-80	11.5	10.9	10.4	10.8	11.2	11.5	10.8	10.1	9.46	9.38	9.28	9.06	8.08	7.14	6.40	6.60	6.66	6.54
-75	17.2	16.2	15.6	16.5	16.3	15.6	14.5	13.3	12.3	12.1	11.7	11.0	9.61	8.23	7.08	7.00	6.86	6.54
-70	144	104	66.5	118	176	188	95.3	28.5	16.2	15.2	14.3	13.1	11.2	9.46	7.96	7.49	7.09	6.54
-65	418	392	371	383	391	367	305	237	116	30.7	17.9	15.5	13.1	10.7	8.95	8.05	7.32	6.54
-60	588	568	559	566	561	522	461	383	331	207	65.3	18.8	15.1	12.1	10.00	8.69	7.58	6.54
-55	781	752	742	753	749	679	606	533	481	415	241	51.2	17.4	13.7	11.0	9.31	7.84	6.54
-50	957	928	921	922	902	824	737	669	613	544	415	128	23.0	15.2	12.2	9.98	8.09	6.54
-45	1101	1066	1068	1066	1022	944	852	790	727	654	510	244	39.6	17.0	13.4	10.7	8.34	6.54
-40	1239	1207	1215	1208	1132	1047	971	904	830	737	599	337	49.2	19.2	14.5	11.3	8.57	6.54
-35	1375	1352	1359	1325	1234	1140	1071	1002	920	804	666	457	67.9	22.7	15.6	11.9	8.81	6.54
-30	1493	1481	1484	1419	1318	1230	1153	1080	976	857	721	544	199	33.0	16.7	12.5	9.06	6.54
-25	1583	1588	1573	1484	1392	1299	1217	1126	1019	899	765	609	326	52.8	17.9	13.0	9.28	6.54
-20	1674	1695	1625	1535	1444	1348	1256	1159	1049	928	813	672	438	77.3	18.9	13.4	9.47	6.54
-15	1778	1774	1669	1587	1489	1382	1279	1181	1074	971	863	725	523	118	19.8	13.8	9.64	6.54
-10	1870	1836	1740	1616	1496	1398	1299	1213	1123	1015	903	767	580	168	20.6	14.2	9.79	6.54
-5	1904	1889	1733	1607	1514	1430	1343	1255	1160	1050	933	800	619	212	21.2	14.4	9.90	6.54
0	1946	1939	1823	1672	1556	1461	1375	1289	1188	1077	957	825	645	244	21.6	14.6	9.98	6.54
5	1910	1876	1756	1623	1519	1431	1349	1264	1172	1064	944	811	635	233	21.1	14.3	9.84	6.54
10	1893	1880	1723	1589	1482	1397	1315	1232	1147	1044	924	790	616	205	20.4	14.0	9.67	6.54
15	1848	1815	1728	1575	1442	1360	1280	1197	1115	1011	895	763	589	161	19.5	13.6	9.48	6.54
20	1768	1733	1661	1567	1443	1317	1239	1163	1075	970	856	728	556	118	18.5	13.1	9.25	6.54
25	1669	1645	1588	1520	1422	1305	1197	1113	1026	922	808	681	499	86.7	17.3	12.5	9.00	6.54
30	1569	1559	1511	1445	1370	1272	1163	1059	965	865	754	626	395	49.8	16.0	11.9	8.72	6.54
35	1460	1456	1413	1347	1282	1212	1109	1006	891	797	694	559	255	25.5	14.7	11.3	8.42	6.54
40	1312	1324	1279	1220	1167	1114	1040	938	827	720	615	479	124	18.3	13.5	10.6	8.13	6.54
45	1168	1178	1144	1093	1047	1004	954	859	753	633	525	323	52.4	15.8	12.2	9.87	7.84	6.54
50	1025	1039	1016	970	917	880	837	764	661	544	416	131	18.2	13.6	11.0	9.06	7.55	6.54
55	873	892	876	827	768	736	700	656	558	441	189	28.0	14.7	11.7	9.79	8.28	7.24	6.54
60	683	705	698	653	599	569	552	528	429	237	48.7	14.5	12.1	10.1	8.58	7.56	6.91	6.54
65	488	510	512	477	437	410	397	370	272	132	29.7	11.3	9.94	8.57	7.30	6.82	6.59	6.54
70	309	326	338	306	268	239	219	185	102	26.3	11.3	8.96	8.10	7.08	6.14	6.17	6.28	6.54
75	38.4	53.9	54.9	31.2	20.5	15.2	18.2	15.0	11.9	9.93	8.28	6.90	6.31	5.64	5.07	5.53	5.98	6.54
80	10.3	11.0	11.6	10.5	9.41	8.37	8.42	8.46	8.42	7.26	6.07	4.95	4.66	4.39	4.15	4.91	5.71	6.54
85	5.09	5.78	6.41	5.84	5.26	4.70	5.03	5.34	5.61	4.81	4.01	3.26	3.27	3.29	3.29	4.38	5.47	6.54
90	2.45	2.54	2.63	2.56	2.48	2.41	2.60	2.80	3.00	2.81	2.62	2.43	2.51	2.59	2.67	3.96	5.25	6.54

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:30DEG
Operators:Lyc
Test Date:2017-01-16

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.250
Humidity:65%
Test Distance:10.300m [K=0.9612]
Remarks:SN-FL-50W