

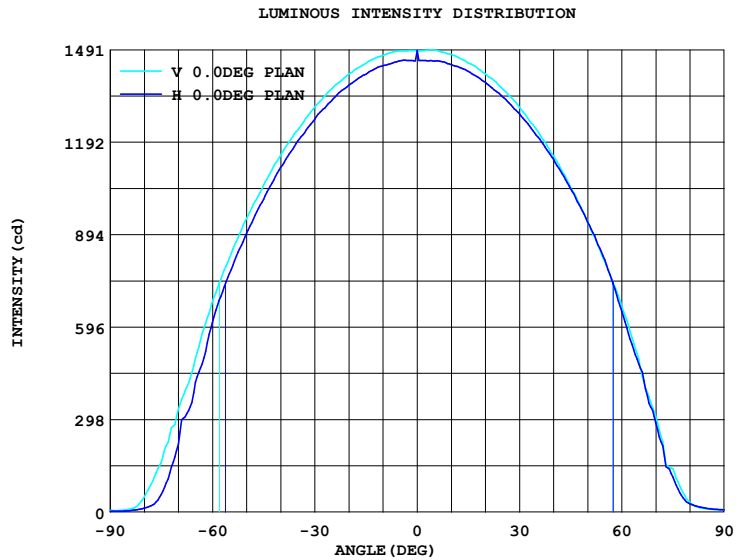
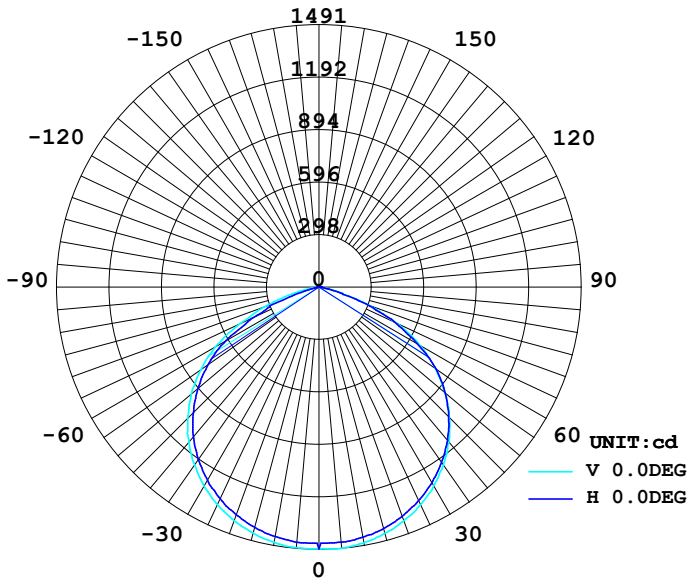
GONIOPHOTOMETRIC SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: Shinpol Optics Technology	Address:	
NAME: Slim LED Flood Light	TYPE:50W	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

TEST DATA			
MODEL:		Imax (cd) :	1491
NOMINAL POWER (W) :	46	AVAILABILITY (%) :	98.4
RATED VOLTAGE (V) :	220	Avai. FLUX (lm) :	3997
NOMINAL FLUX (lm) :	4060	EFFICIENCY (%) :	100.0
TEST FLUX (lm) :	4060	TOTAL FLUX (lm) :	4060
LAMPS INSIDE:	1	@50% (H,V) :	115,113DEG



Test:U:219.3V I:0.220A P:45.59W PF:0.945

Test System:HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-04-21

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.200 m  
 Remarks:

**GONIOPHOTOMETRIC SYSTEM TEST REPORT**

**AREA LUMINOUS FLUX**

Report number:

<b>MANUFACTURER:</b> Shinpol Optics Technology	<b>Address:</b>	
<b>NAME:</b> Slim LED Flood Light	<b>TYPE:</b> 50W	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

		AREA FLUX DIAGRAM																UNIT:lm		t	a
VERTICAL (DEG)	90	0.02	0.06	0.12	0.18	0.20	0.20	0.23	0.32	0.38	0.38	0.32	0.23	0.20	0.20	0.17	0.12	0.06	0.02	3.41	0.00
	80	0.02	0.08	0.26	0.69	1.28	1.96	2.75	3.47	3.77	3.77	3.47	2.75	1.96	1.29	0.70	0.26	0.09	0.02	28.6	12.3
	70	0.02	0.14	0.88	2.64	5.22	8.11	10.7	12.9	14.1	14.1	12.8	10.6	8.06	5.17	2.60	0.84	0.14	0.02	109	104
	60	0.02	0.32	1.99	5.70	10.2	14.9	19.1	22.3	24.1	24.1	22.2	18.8	14.7	10.2	5.65	1.84	0.28	0.03	197	195
	50	0.02	0.60	3.36	8.60	14.7	20.4	25.3	29.1	31.2	31.2	29.0	25.2	20.2	14.4	8.55	3.14	0.50	0.03	266	265
	40	0.03	0.89	4.59	10.9	17.9	24.5	30.1	34.2	36.5	36.5	34.1	29.9	24.3	17.7	10.7	4.40	0.74	0.03	319	317
	30	0.04	1.18	5.55	12.6	20.2	27.6	33.7	38.0	40.3	40.2	37.8	33.4	27.2	20.0	12.4	5.41	0.95	0.04	357	356
		0.04	1.38	6.21	13.7	21.8	29.5	36.0	40.6	42.8	42.6	40.2	35.6	29.2	21.5	13.5	6.06	1.12	0.04	383	382
		0.05	1.48	6.51	14.2	22.5	30.5	37.3	42.1	44.3	43.8	41.7	37.1	30.4	22.4	14.0	6.35	1.20	0.04	397	396
		0.05	1.46	6.44	14.1	22.3	30.2	36.8	41.4	43.7	44.3	42.0	37.2	30.4	22.3	14.0	6.31	1.19	0.04	395	394
		0.04	1.33	5.99	13.3	21.2	28.6	34.9	39.7	42.4	42.8	40.6	35.8	29.2	21.4	13.3	5.91	1.08	0.04	378	377
	-30	0.03	1.09	5.21	11.9	19.3	26.3	32.7	37.4	39.9	40.1	38.0	33.4	27.0	19.6	12.0	5.18	0.89	0.03	351	350
	-40	0.03	0.80	4.16	10.0	16.7	23.4	29.4	33.7	35.9	36.1	34.1	29.9	24.0	17.0	10.2	4.10	0.65	0.03	311	310
	-50	0.02	0.49	2.94	7.47	13.5	19.5	24.8	28.5	30.4	30.5	28.8	25.1	19.8	13.8	7.78	2.84	0.39	0.02	257	255
	-60	0.02	0.23	1.58	4.73	9.12	14.2	18.7	21.6	23.1	23.1	21.8	18.8	14.4	9.45	4.97	1.48	0.19	0.02	188	186
	-70	0.01	0.09	0.54	1.90	4.31	7.21	10.1	12.0	12.6	12.6	11.9	10.0	7.29	4.44	1.94	0.49	0.09	0.02	97.9	92.8
	-80	0.01	0.04	0.11	0.34	0.84	1.55	2.18	2.56	2.55	2.54	2.55	2.19	1.56	0.85	0.34	0.12	0.05	0.02	20.4	5.38
	-90	0.01	0.03	0.05	0.08	0.15	0.23	0.27	0.24	0.19	0.19	0.24	0.27	0.23	0.15	0.08	0.05	0.04	0.02	2.52	0.00
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
□ t	0.48	11.6	56.5	134	222	310	386	441	469	470	442	387	311	222	133	54.9	9.67	0.51	4060		
□ a	0.00	6.62	52.6	130	218	306	382	438	465	466	439	384	307	219	129	50.5	4.10	0.00		3997	

Test System: HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2020-04-21

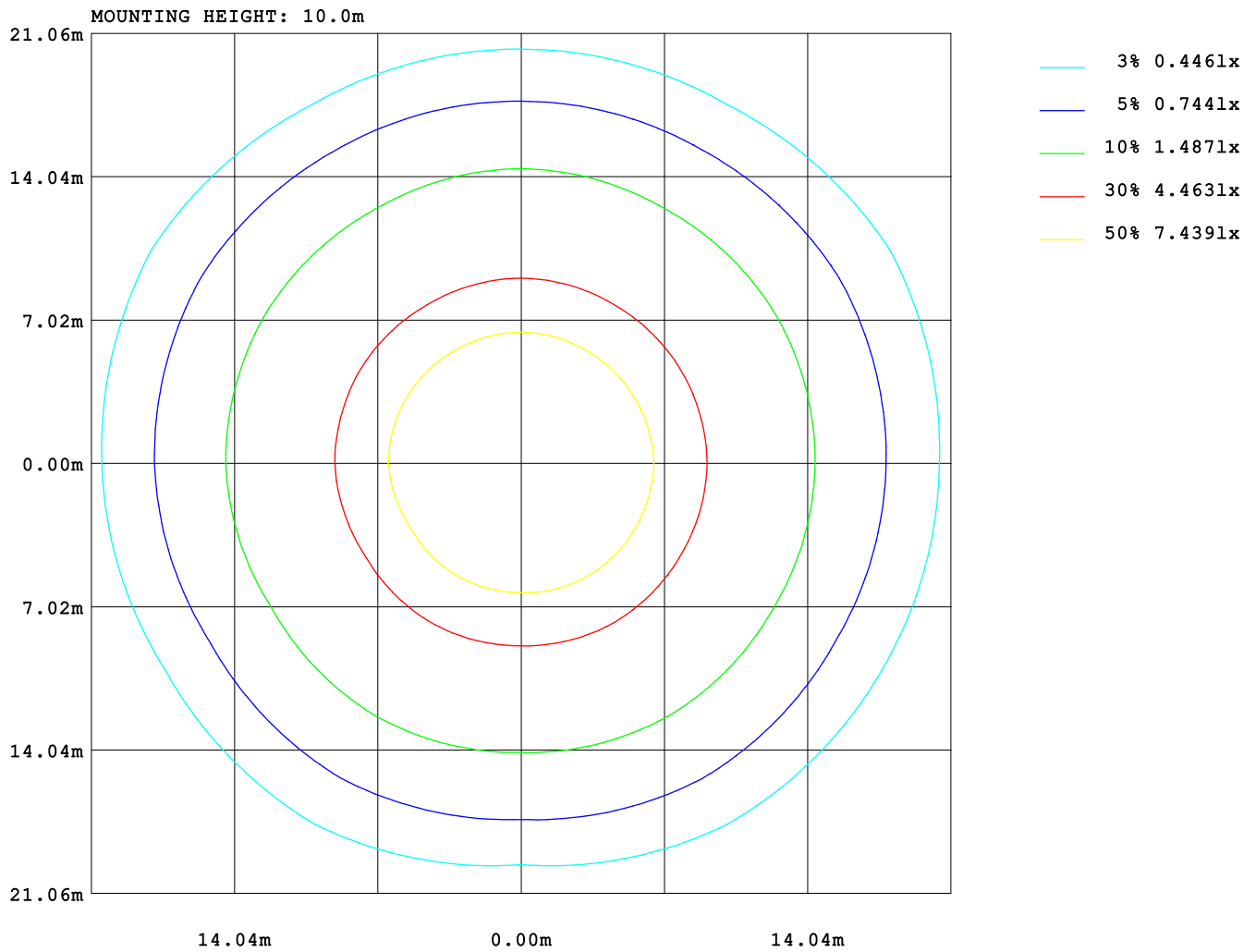
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 8.200 m  
 Remarks:

**GONIOPHOTOMETRIC SYSTEM TEST REPORT**

**ISOLUX DIAGRAM**

Report number:

<b>MANUFACTURER:</b> Shinpol Optics Technology	<b>Address:</b>	
<b>NAME:</b> Slim LED Flood Light	<b>TYPE:</b> 50W	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Test System:HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-04-21

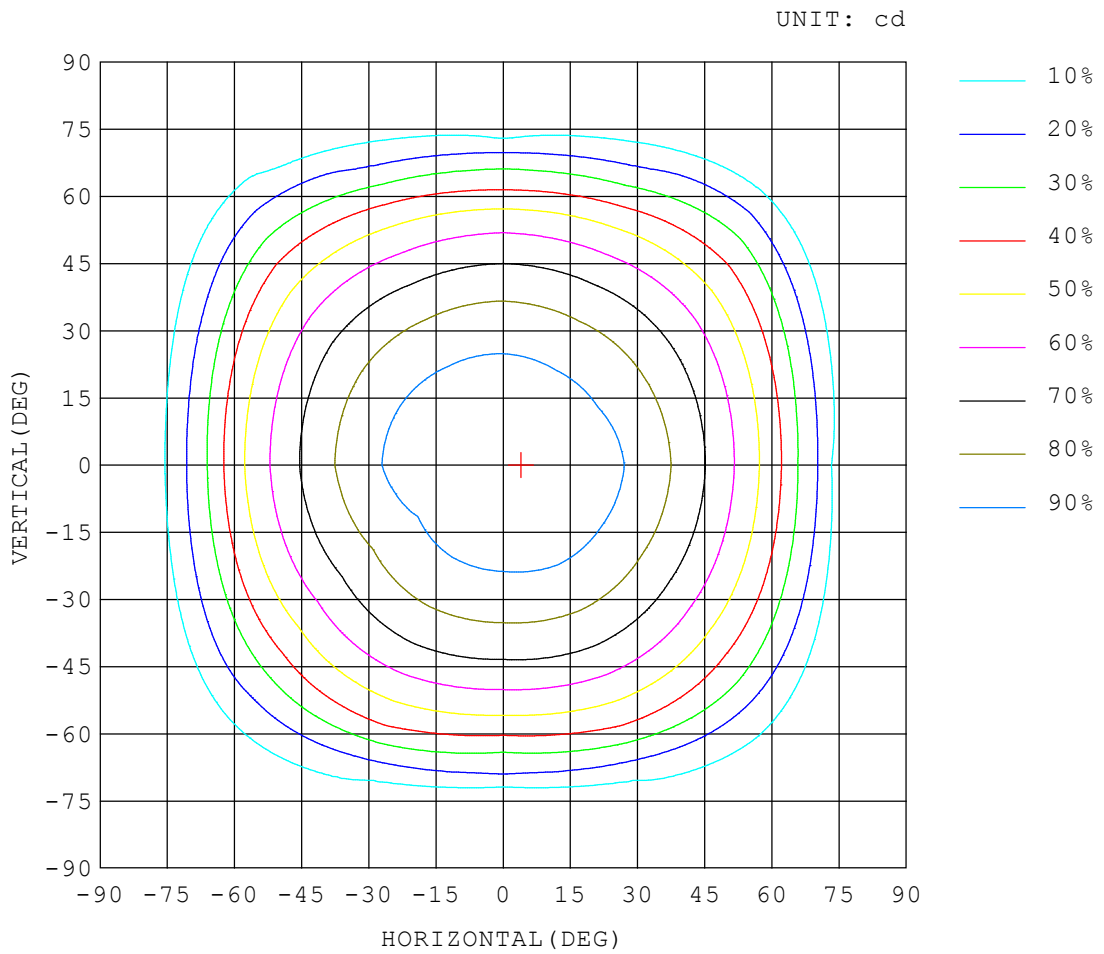
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.200 m  
 Remarks:

**GONIOPHOTOMETRIC SYSTEM TEST REPORT**

**ISOCANDELA DIAGRAM**

Report number:

<b>MANUFACTURER:</b> Shinpol Optics Technology	<b>Address:</b>	
<b>NAME:</b> Slim LED Flood Light	<b>TYPE:</b> 50W	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Test System: HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2020-04-21

Test Set: 8.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 8.200 m  
 Remarks:

**GONIOPHOTOMETRIC SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b> Shinpol Optics Technology	<b>Address:</b>	
<b>NAME:</b> Slim LED Flood Light	<b>TYPE:</b> 50W	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

H (DEG) \ V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20
-90.0	5.91	5.44	4.97	4.50	4.03	3.56	3.09	3.65	4.21	4.77	5.33	5.89	6.45	5.89	5.33
-85.0	5.91	5.10	4.37	3.88	3.50	3.21	3.06	4.03	5.12	6.26	7.41	8.55	9.70	8.85	7.90
-80.0	5.91	4.77	4.20	4.09	4.32	4.71	5.06	6.77	9.02	11.4	13.7	16.0	18.1	18.0	17.9
-75.0	5.91	4.62	4.43	5.09	6.20	7.63	9.86	14.6	23.1	31.1	39.3	50.2	62.3	69.6	72.4
-70.0	5.91	4.57	5.03	6.73	9.42	15.2	27.5	43.7	70.3	94.2	122	150	161	195	216
-65.0	5.91	4.58	5.95	9.00	17.1	37.1	63.9	101	153	189	258	287	332	374	386
-60.0	5.91	4.75	7.11	13.2	34.6	69.9	118	183	264	304	373	429	499	544	573
-55.0	5.91	4.92	8.44	21.4	58.5	114	190	288	337	419	508	582	637	687	717
-50.0	5.91	5.21	10.1	34.5	89.9	171	273	339	439	535	620	690	751	801	840
-45.0	5.91	5.57	12.1	50.8	121	220	321	423	530	630	710	785	850	904	944
-40.0	5.91	5.90	15.9	67.6	154	281	378	506	614	704	793	869	935	993	1041
-35.0	5.91	6.25	20.2	85.0	196	320	441	579	685	774	863	943	1012	1070	1118
-30.0	5.91	6.66	25.7	104	223	357	502	638	745	843	924	1005	1078	1136	1184
-25.0	5.91	7.02	30.8	121	259	390	552	689	800	899	983	1059	1129	1191	1241
-20.0	5.91	7.33	36.5	135	278	420	594	730	848	947	1035	1109	1172	1234	1284
-15.0	5.91	7.59	41.2	145	295	447	625	764	884	987	1078	1153	1216	1270	1316
-10.0	5.91	7.78	44.7	152	313	472	651	790	914	1016	1112	1189	1256	1308	1348
-5.0	5.91	7.92	47.2	157	326	488	669	808	935	1040	1135	1216	1286	1341	1383
0.0	5.91	8.00	48.4	160	332	494	679	818	947	1054	1150	1232	1307	1364	1412
5.0	5.91	8.06	48.0	158	330	493	675	815	943	1050	1146	1227	1299	1356	1402
10.0	5.91	8.06	46.4	155	320	483	664	805	930	1036	1131	1213	1281	1339	1382
15.0	5.91	8.00	43.6	150	303	465	644	786	908	1013	1109	1187	1256	1312	1355
20.0	5.91	7.87	39.7	144	288	445	619	759	878	983	1075	1155	1220	1272	1315
25.0	5.91	7.67	34.6	131	279	419	586	723	841	942	1036	1111	1172	1225	1266
30.0	5.91	7.40	29.8	115	247	388	541	681	792	895	981	1055	1116	1166	1208
35.0	5.91	7.07	24.5	98.5	214	351	487	627	740	836	917	988	1048	1098	1135
40.0	5.91	6.78	19.9	81.8	168	301	432	567	678	766	844	911	969	1015	1053
45.0	5.91	6.51	15.4	63.5	146	262	369	491	603	687	759	823	877	923	964
50.0	5.91	6.20	13.2	45.5	113	194	306	407	509	592	664	724	775	818	858
55.0	5.91	5.93	11.4	31.4	82.2	149	239	327	403	479	546	605	659	700	737
60.0	5.91	5.78	9.93	20.6	51.6	104	155	241	304	358	416	465	506	551	586
65.0	5.91	5.62	8.58	14.4	31.1	62.1	107	149	186	247	293	317	365	388	418
70.0	5.91	5.58	7.50	11.3	17.5	33.3	55.2	82.6	106	130	149	184	205	238	259
75.0	5.91	5.59	6.76	9.09	12.5	17.3	26.2	35.3	42.2	50.8	60.2	69.4	78.9	88.8	97.9
80.0	5.91	5.66	6.33	7.65	9.50	11.8	14.6	15.5	16.3	16.9	18.0	17.7	16.5	18.7	20.8
85.0	5.91	5.90	6.18	6.86	7.79	8.92	10.2	9.68	9.14	8.55	7.87	7.12	6.31	7.33	8.35
90.0	5.91	6.14	6.36	6.58	6.81	7.03	7.26	6.64	6.02	5.41	4.79	4.18	3.56	4.11	4.66

Test System: HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2020-04-21

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 8.200 m  
 Remarks:

**GONIOPHOTOMETRIC SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b> Shinpol Optics Technology	<b>Address:</b>	
<b>NAME:</b> Slim LED Flood Light	<b>TYPE:</b> 50W	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

H (DEG) \ V (DEG)	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55
-90.0	4.77	4.21	3.65	3.09	3.65	4.21	4.77	5.33	5.89	6.45	5.90	5.35	4.80	4.25	3.70
-85.0	6.88	5.82	4.70	3.56	4.71	5.84	6.91	7.92	8.86	9.68	8.50	7.34	6.19	5.05	3.98
-80.0	17.2	16.1	14.5	12.6	14.5	16.2	17.4	18.2	18.3	18.5	16.4	14.1	11.7	9.20	6.85
-75.0	72.3	69.6	64.3	56.6	64.2	69.5	72.5	72.9	70.3	63.0	49.2	39.4	31.8	23.3	15.3
-70.0	225	228	226	219	226	227	221	210	193	162	150	123	96.7	67.9	44.8
-65.0	395	414	422	418	421	413	396	387	372	329	288	255	205	150	104
-60.0	595	608	613	610	614	609	597	574	543	500	438	387	307	273	186
-55.0	743	761	768	768	770	764	747	722	694	644	587	518	439	357	288
-50.0	865	884	896	899	899	888	872	849	810	761	700	630	547	463	360
-45.0	976	995	1006	1008	1009	1002	986	956	916	863	799	724	642	546	446
-40.0	1070	1095	1107	1111	1111	1103	1082	1055	1009	953	886	810	721	626	520
-35.0	1154	1176	1191	1197	1196	1186	1167	1134	1090	1032	965	883	793	697	586
-30.0	1222	1248	1262	1267	1268	1259	1238	1206	1159	1104	1031	950	859	757	641
-25.0	1280	1306	1322	1327	1329	1319	1300	1264	1219	1159	1089	1007	915	808	693
-20.0	1324	1353	1369	1377	1378	1370	1348	1312	1265	1207	1137	1056	960	854	729
-15.0	1356	1386	1405	1412	1416	1408	1384	1351	1305	1244	1176	1093	999	885	762
-10.0	1378	1410	1429	1440	1447	1435	1413	1380	1333	1275	1204	1123	1023	910	786
-5.0	1413	1427	1441	1455	1466	1458	1435	1400	1355	1295	1225	1140	1039	928	800
0.0	1447	1473	1486	1488	1490	1475	1448	1413	1365	1305	1234	1148	1047	937	807
5.0	1436	1459	1466	1454	1445	1436	1423	1393	1351	1294	1224	1141	1042	931	804
10.0	1417	1436	1445	1443	1433	1419	1397	1366	1327	1273	1206	1124	1029	917	793
15.0	1386	1408	1418	1421	1412	1395	1371	1339	1296	1243	1178	1099	1005	896	774
20.0	1348	1367	1381	1385	1377	1360	1336	1303	1260	1206	1142	1064	973	867	746
25.0	1299	1322	1336	1339	1332	1317	1290	1257	1214	1161	1098	1023	932	829	712
30.0	1239	1264	1279	1285	1276	1259	1234	1200	1157	1106	1043	971	884	781	667
35.0	1169	1196	1210	1215	1208	1192	1164	1131	1091	1040	979	907	826	728	617
40.0	1089	1114	1129	1137	1129	1111	1086	1050	1010	961	903	835	755	664	561
45.0	996	1020	1036	1043	1036	1020	993	958	918	871	815	750	674	595	490
50.0	890	914	929	935	928	912	888	853	812	768	714	650	584	508	411
55.0	767	790	806	813	804	787	763	732	689	645	594	539	479	407	321
60.0	614	635	646	647	643	630	607	578	543	500	462	415	363	297	239
65.0	449	465	474	477	473	463	446	415	386	364	318	289	241	192	140
70.0	269	277	284	287	284	277	269	258	236	202	185	146	125	109	82.3
75.0	107	112	113	112	113	112	107	99.6	90.4	79.9	70.9	60.6	50.8	43.1	36.7
80.0	22.6	24.2	25.4	26.4	25.5	24.3	22.8	20.9	18.8	16.6	17.9	18.2	17.4	16.4	15.2
85.0	9.33	10.2	11.1	11.9	11.1	10.2	9.35	8.38	7.36	6.33	7.09	7.81	8.47	9.02	9.51
90.0	5.21	5.76	6.30	6.85	6.29	5.73	5.17	4.61	4.05	3.49	4.11	4.72	5.34	5.96	6.57

Test System: HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2020-04-21

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 8.200 m  
 Remarks:

**GONIOPHOTOMETRIC SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Report number:

<b>MANUFACTURER:</b> Shinpol Optics Technology	<b>Address:</b>	
<b>NAME:</b> Slim LED Flood Light	<b>TYPE:</b> 50W	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

H (DEG) \ V (DEG)	60	65	70	75	80	85	90
-90.0	3.16	3.74	4.32	4.90	5.49	6.07	6.65
-85.0	3.04	3.70	4.42	5.12	5.74	6.27	6.65
-80.0	5.14	5.10	5.24	5.58	6.03	6.47	6.65
-75.0	10.3	8.00	6.90	6.39	6.43	6.66	6.65
-70.0	26.5	14.5	10.0	7.74	6.94	6.84	6.65
-65.0	60.8	32.5	15.4	9.78	7.58	7.04	6.65
-60.0	119	61.8	27.5	12.9	8.48	7.28	6.65
-55.0	182	107	47.2	17.4	9.58	7.51	6.65
-50.0	278	151	74.6	25.4	11.1	7.74	6.65
-45.0	319	212	107	36.5	12.8	7.97	6.65
-40.0	395	274	139	49.8	14.6	8.19	6.65
-35.0	453	309	157	65.2	16.6	8.45	6.65
-30.0	511	352	186	81.9	19.0	8.76	6.65
-25.0	552	391	244	97.4	21.4	9.04	6.65
-20.0	594	419	261	111	24.5	9.28	6.65
-15.0	623	445	279	123	27.0	9.49	6.65
-10.0	644	471	295	132	28.8	9.66	6.65
-5.0	657	487	305	137	29.9	9.79	6.65
0.0	663	493	309	140	30.3	9.88	6.65
5.0	661	490	309	138	30.8	9.93	6.65
10.0	651	478	301	134	30.6	9.93	6.65
15.0	635	456	286	127	29.6	9.89	6.65
20.0	610	434	266	117	27.9	9.80	6.65
25.0	575	409	245	107	25.4	9.66	6.65
30.0	537	377	200	95.2	23.4	9.48	6.65
35.0	483	341	178	79.4	20.9	9.25	6.65
40.0	428	287	150	63.5	18.6	9.07	6.65
45.0	368	231	126	48.8	16.3	8.90	6.65
50.0	294	182	101	36.8	14.2	8.71	6.65
55.0	227	133	70.0	27.8	12.4	8.50	6.65
60.0	143	97.3	44.8	20.4	11.2	8.28	6.65
65.0	105	57.2	29.6	15.1	10.1	8.04	6.65
70.0	54.7	32.9	18.3	12.2	9.37	7.81	6.65
75.0	26.8	17.6	13.0	10.3	8.69	7.58	6.65
80.0	14.4	12.1	10.3	9.04	8.07	7.32	6.65
85.0	9.97	9.20	8.53	7.96	7.47	7.03	6.65
90.0	7.19	7.10	7.01	6.92	6.83	6.74	6.65

Test System: HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2020-04-21

Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 8.200 m  
 Remarks: