

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	367.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	157.7V x 124.4H
	At 50% of Imax	119.7V x 112.8H
	At 90% of Imax	62.6V x 52.3H

Beam Flux	Total	997.2 lumens per klm.
	To 10% of Imax	980.0 lumens per klm.
	To 50% of Imax	852.6 lumens per klm.
	To 90% of Imax	270.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

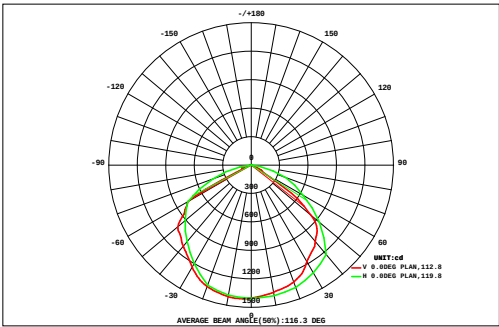
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.2168A P:29.24W PF:1.000 Freq:50.00Hz Lamp Flux:3850.65x1 lm		
NAME: 8.02.038.0041 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411028
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:131.68lm/W	
MODEL	LLS-WZB-W40-L12-DIM	Imax(cd)	1413
NOMINAL POWER(W)	29	AVAILABILITY(%)	98.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	3788
NOMINAL FLUX(lm)	3850.65	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3851
TEST VOLTAGE(V)	220	θ @50%(H,V)	113,120DEG

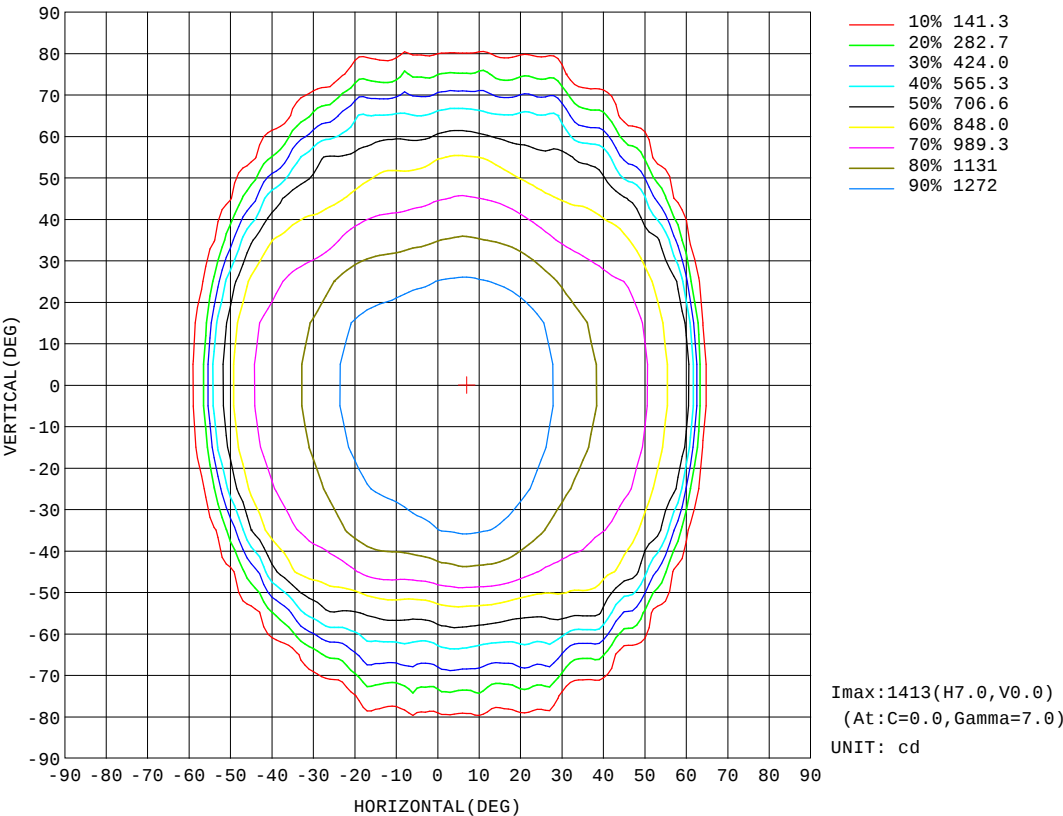
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.16	0.48	2.03	5.14	7.85	8.53	7.03	5.47	1.56	0.80	0.44	0.06	0.00	0.00	39.5	33.9
70	0.00	0.00	0.00	0.12	0.88	3.52	10.2	17.3	17.4	18.6	17.2	16.9	7.82	2.54	1.06	0.33	0.01	0.00	114	108
60	0.00	0.00	0.01	0.69	2.85	11.4	20.9	23.4	25.2	26.5	24.2	20.7	18.4	8.80	1.70	0.78	0.06	0.00	185	180
50	0.00	0.00	0.12	1.55	7.92	19.1	22.8	27.0	29.0	30.1	28.4	24.1	20.6	16.2	4.66	1.09	0.17	0.00	233	229
40	0.00	0.00	0.41	2.73	14.7	22.5	26.9	31.4	33.4	34.5	32.9	28.6	23.4	18.6	10.3	1.26	0.31	0.00	282	278
30	0.00	0.00	0.77	5.17	18.5	25.3	31.1	35.8	38.0	38.9	37.1	32.6	26.6	21.2	13.8	1.79	0.45	0.00	327	324
20	0.00	0.01	0.98	7.38	20.5	27.4	34.0	38.8	41.3	42.1	40.2	35.6	28.8	22.5	14.9	2.94	0.52	0.00	358	355
10	0.00	0.01	1.06	8.27	20.8	27.7	34.5	39.3	41.8	42.8	40.7	36.1	29.3	22.9	15.4	3.72	0.55	0.00	365	362
0	0.00	0.01	1.06	8.26	20.8	27.7	34.5	39.3	41.9	42.7	40.7	36.1	29.3	22.8	15.3	3.64	0.54	0.00	365	362
-10	0.00	0.01	0.94	7.07	20.2	27.2	33.9	38.8	41.4	42.3	40.3	35.5	28.7	22.5	14.9	2.97	0.50	0.00	357	354
-20	0.00	0.00	0.70	5.00	18.6	26.2	32.5	37.5	40.1	41.0	39.1	34.1	27.5	21.6	13.5	1.79	0.38	0.00	340	337
-30	0.00	0.00	0.33	2.60	14.9	24.4	30.2	35.5	37.8	38.9	37.1	31.7	25.8	20.0	10.6	1.10	0.22	0.00	311	308
-40	0.00	0.00	0.04	1.32	8.35	20.9	26.1	31.0	32.8	34.2	32.5	27.6	23.4	17.3	5.45	0.94	0.12	0.00	262	259
-50	0.00	0.00	0.00	0.65	2.26	12.1	19.1	21.8	22.9	24.3	23.0	20.6	18.9	10.8	1.32	0.71	0.05	0.00	178	175
-60	0.00	0.00	0.00	0.06	0.78	2.18	9.21	13.4	14.4	15.4	13.7	13.2	8.85	2.09	0.93	0.32	0.00	0.00	94.5	89.9
-70	0.00	0.00	0.00	0.00	0.10	0.32	0.86	6.42	7.26	7.96	6.92	6.43	0.49	0.53	0.47	0.05	0.00	0.00	37.8	32.0
-80	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.43	0.58	0.25	0.00	0.12	0.10	0.01	0.00	0.00	0.00	1.51	0.13
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Φ t	0.00	0.04	6.43	50.8	172	278	369	442	473	489	461	405	320	231	125	23.5	3.88	0.00	3851	---
Φ a	0.00	0.00	0.06	40.1	167	275	367	441	471	488	460	404	317	227	118	12.3	0.00	0.00	---	3788

one-half-peak spread: U:57.7,D:62.5 , L:59.2,Beam Type: Type 6 x 7 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.8V I:0.2168A P:29.24W PF:1.000 Freq:50.00Hz Lamp Flux:3850.65x1 lm		
NAME: 8.02.038.0041 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411028
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

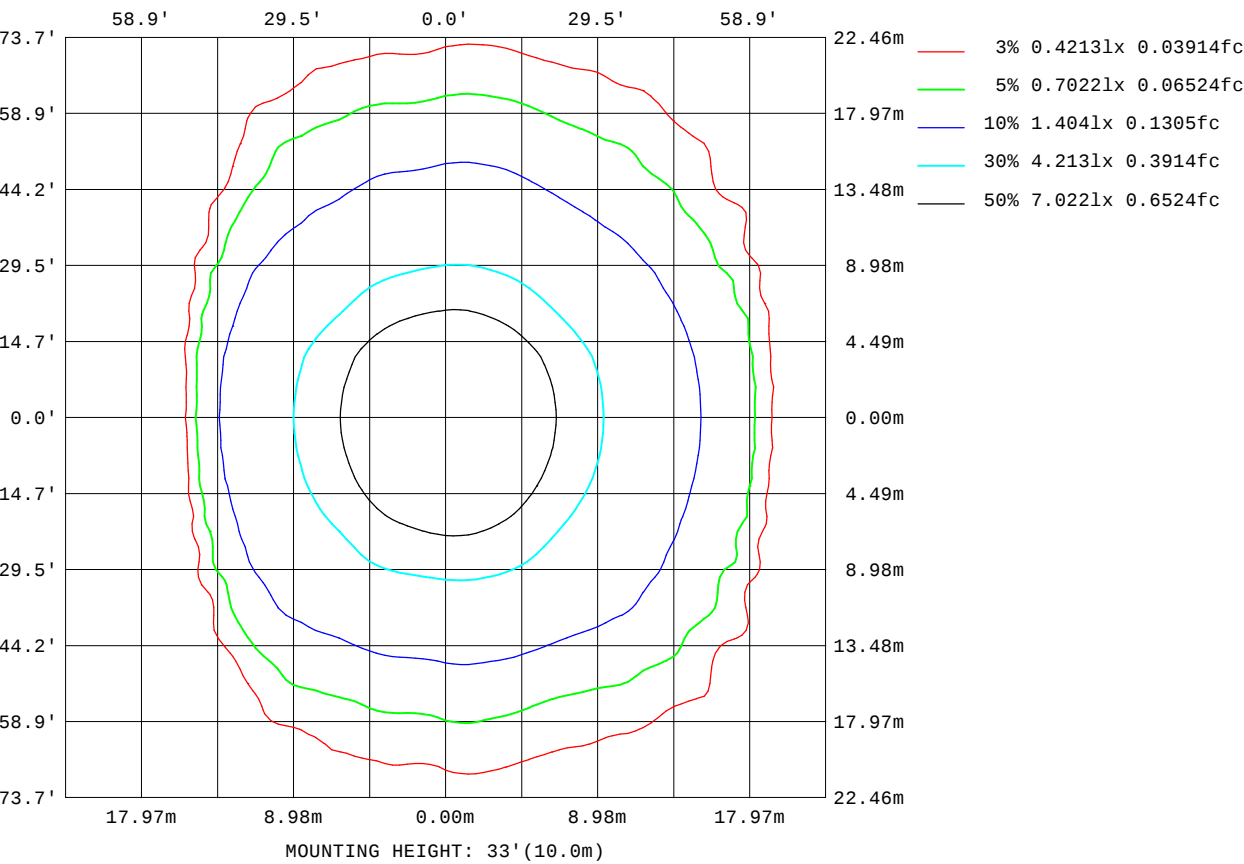


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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

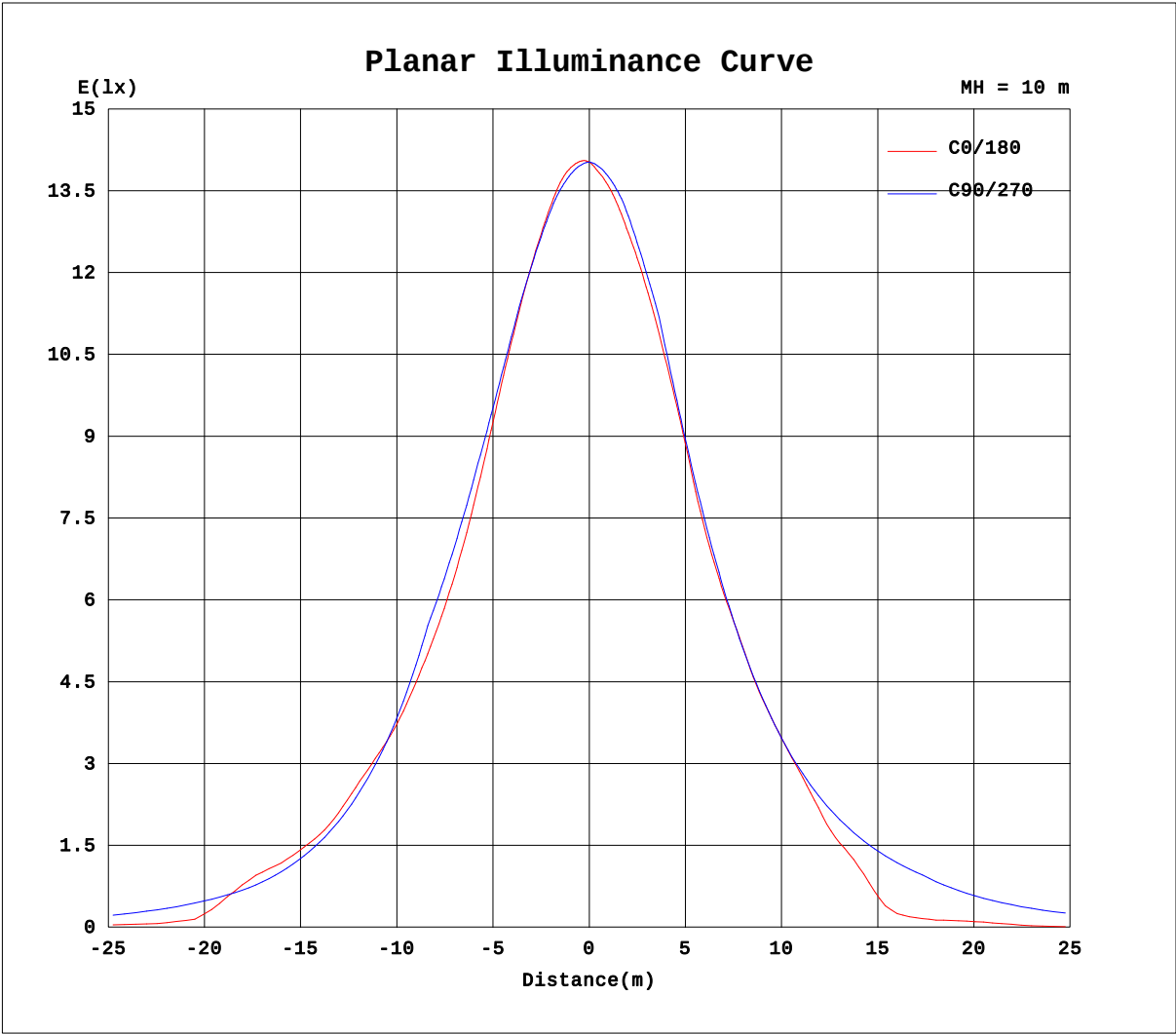
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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

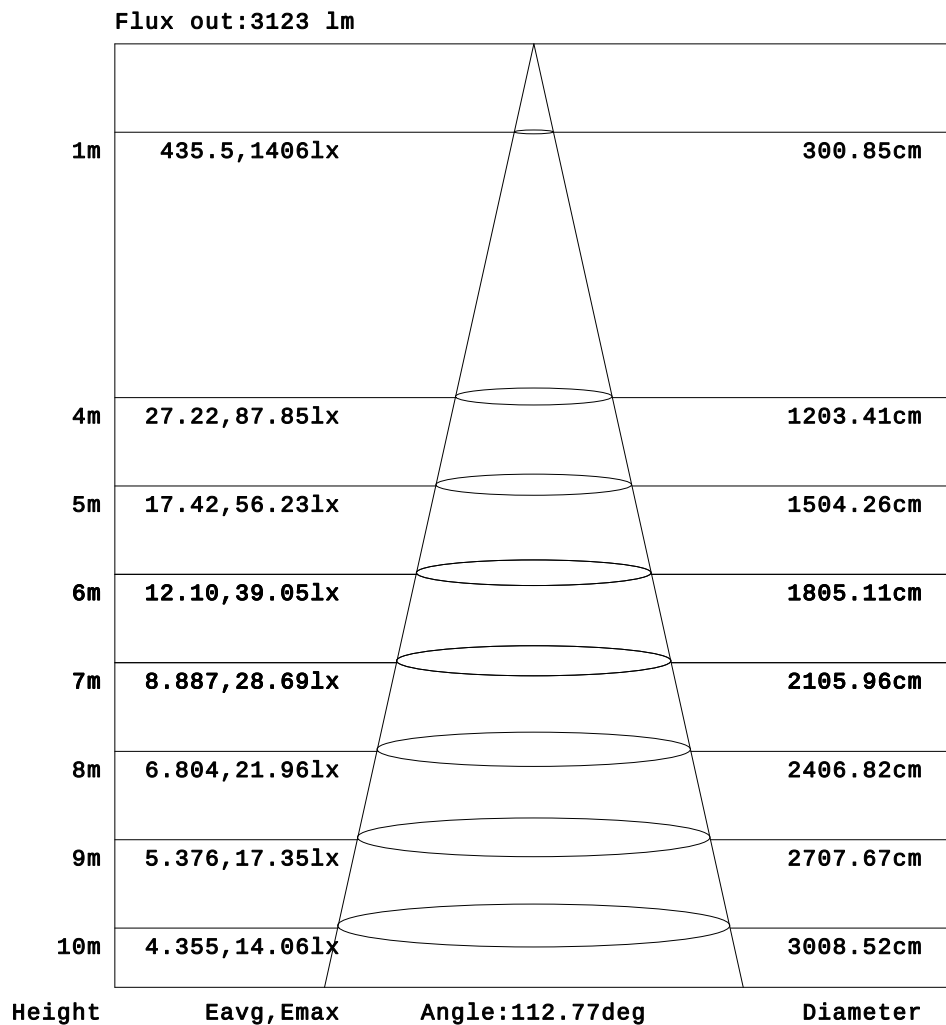


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.8V I:0.2168A P:29.24W PF:1.000 Freq:50.00Hz Lamp Flux:3850.65x1 lm		
NAME: 8.02.038.0041 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411028
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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:28.0DEG
Operators:QC1
Test Date:2024-11-12

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.2168A P:29.24W PF:1.000 Freq:50.00Hz Lamp Flux:3850.65x1 lm		
NAME: 8.02.038.0041 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411028
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.10	11.6	6.91	8.34	9.30	91.7	89.4
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.03	14.9	19.1	21.8	30.7	134	209	189	236	238
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	29.7	38.1	37.4	49.8	261	411	369	380	387
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	21.8	43.2	49.8	88.4	225	308	408	484	484	482	506
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.26	43.5	76.3	69.9	139	412	566	555	557	598	584	624
-55	0.00	0.00	0.00	0.00	0.00	0.00	2.36	32.2	65.9	96.9	277	439	616	701	697	732	754	746	782
-50	0.00	0.00	0.00	0.00	0.00	0.00	4.72	61.0	88.2	117	483	740	819	836	840	908	910	908	940
-45	0.00	0.00	0.00	0.00	0.00	0.93	28.3	82.7	117	357	664	836	906	931	980	1040	1046	1056	1085
-40	0.00	0.00	0.00	0.00	0.00	1.85	51.9	104	147	597	845	933	993	1027	1121	1172	1181	1203	1231
-35	0.00	0.00	0.00	0.00	0.00	12.5	81.5	118	345	707	901	975	1031	1082	1168	1211	1223	1246	1271
-30	0.00	0.00	0.00	0.00	0.00	23.1	111	132	544	817	957	1018	1069	1137	1216	1251	1265	1290	1311
-25	0.00	0.00	0.00	0.00	1.89	37.5	114	192	621	877	982	1049	1098	1176	1243	1277	1295	1319	1340
-20	0.00	0.00	0.00	0.00	3.79	51.8	117	253	697	937	1007	1080	1128	1214	1270	1303	1324	1348	1370
-15	0.00	0.00	0.00	0.00	5.68	67.2	120	348	741	954	1022	1092	1144	1232	1286	1318	1340	1362	1384
-10	0.00	0.00	0.00	0.00	7.58	82.6	123	443	784	971	1036	1104	1159	1249	1301	1334	1355	1377	1397
-5	0.00	0.00	0.00	0.00	8.90	89.5	127	481	805	976	1043	1109	1167	1256	1306	1337	1358	1379	1400
0	0.00	0.00	0.00	0.00	10.2	96.4	131	519	825	982	1051	1114	1175	1263	1311	1340	1361	1382	1403
5	0.00	0.00	0.00	0.00	9.14	91.2	128	489	809	977	1044	1108	1167	1255	1305	1334	1354	1376	1398
10	0.00	0.00	0.00	0.00	8.05	86.0	125	458	792	972	1037	1103	1160	1248	1299	1328	1348	1369	1392
15	0.00	0.00	0.00	0.00	6.72	73.5	121	386	752	958	1022	1089	1140	1228	1280	1309	1328	1349	1370
20	0.00	0.00	0.00	0.00	5.40	61.0	116	314	712	943	1007	1076	1121	1208	1260	1289	1309	1329	1348
25	0.00	0.00	0.00	0.00	3.58	44.7	118	226	638	874	957	1018	1056	1131	1190	1219	1234	1254	1275
30	0.00	0.00	0.00	0.00	1.75	28.3	120	138	565	804	907	960	992	1053	1119	1148	1160	1179	1201
35	0.00	0.00	0.00	0.00	0.88	18.3	96.7	118	373	691	845	897	928	969	1044	1073	1084	1104	1127
40	0.00	0.00	0.00	0.00	0.00	8.34	73.2	98.3	181	578	784	834	863	886	969	997	1008	1029	1054
45	0.00	0.00	0.00	0.00	0.00	4.25	44.1	89.5	132	367	636	761	795	827	878	927	939	956	982
50	0.00	0.00	0.00	0.00	0.00	0.16	15.0	80.8	82.0	157	489	688	727	767	788	856	870	883	911
55	0.00	0.00	0.00	0.00	0.00	0.08	7.60	45.9	69.1	111	285	489	645	714	731	783	804	803	841
60	0.00	0.00	0.00	0.00	0.00	0.00	0.21	11.0	56.1	64.8	82.4	290	564	661	674	709	738	723	771
65	0.00	0.00	0.00	0.00	0.00	0.00	0.11	5.51	28.6	41.8	62.4	165	307	396	542	567	582	563	603
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.17	18.7	42.5	40.8	51.2	131	409	426	426	403	435
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	9.35	21.3	21.3	28.9	72.3	211	220	233	262	280
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	6.60	13.6	12.5	14.9	40.4	120	126
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
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V(B) Range:-80 - 80DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
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SPEC.:	DIM.:	SERIAL No.:202411028
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--2																	UNIT: cd	
H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	82.2	153	13.9	14.0	11.2	9.82	17.9	20.5	16.2	12.0	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	246	267	198	237	208	110	33.2	29.0	28.5	38.0	22.5	12.9	3.37	0.00	0.00	0.00	0.00	0.00
-70	409	381	381	459	405	210	48.4	37.5	40.7	64.0	42.1	25.8	6.74	0.00	0.00	0.00	0.00	0.00
-65	526	500	481	508	492	418	309	289	68.2	65.8	53.5	49.5	20.8	4.52	0.00	0.00	0.00	0.00
-60	643	620	581	557	579	626	570	541	95.6	67.5	64.9	73.1	34.9	9.05	0.00	0.00	0.00	0.00
-55	803	793	770	736	729	754	736	675	411	257	80.2	70.5	57.7	21.0	1.82	0.00	0.00	0.00
-50	963	965	959	914	878	882	901	809	726	446	95.4	67.9	80.5	33.0	3.64	0.00	0.00	0.00
-45	1106	1103	1090	1042	983	953	944	887	794	604	291	82.6	80.1	42.8	8.14	0.00	0.00	0.00
-40	1248	1242	1222	1170	1089	1024	987	965	863	762	487	97.3	79.6	52.7	12.6	0.00	0.00	0.00
-35	1285	1281	1262	1219	1145	1074	1029	992	927	807	630	164	83.3	73.2	19.7	0.00	0.00	0.00
-30	1323	1320	1302	1267	1201	1124	1071	1019	992	853	773	230	87.0	93.8	26.8	0.00	0.00	0.00
-25	1352	1347	1328	1296	1235	1159	1099	1049	1011	901	796	415	94.9	97.5	35.8	0.01	0.00	0.00
-20	1381	1375	1354	1324	1270	1194	1127	1078	1029	948	818	599	103	101	44.7	0.02	0.00	0.00
-15	1394	1389	1368	1339	1287	1214	1145	1094	1039	974	835	674	113	97.3	51.5	2.54	0.00	0.00
-10	1407	1403	1382	1354	1305	1233	1163	1111	1048	999	851	748	123	93.4	58.3	5.06	0.00	0.00
-5	1409	1406	1385	1358	1310	1239	1168	1113	1051	1005	855	758	134	92.8	59.3	5.16	0.00	0.00
0	1412	1408	1388	1361	1315	1244	1172	1116	1054	1010	858	768	144	92.2	60.4	5.26	0.00	0.00
5	1408	1404	1383	1356	1308	1238	1167	1112	1050	1005	855	760	134	92.9	60.0	5.18	0.00	0.00
10	1404	1400	1378	1350	1302	1233	1162	1108	1046	1000	852	752	123	93.6	59.6	5.10	0.00	0.00
15	1380	1375	1357	1330	1280	1210	1142	1091	1036	975	836	683	113	98.4	54.2	3.84	0.00	0.00
20	1356	1351	1335	1309	1258	1187	1122	1073	1025	951	820	614	103	103	48.9	2.57	0.00	0.00
25	1286	1279	1263	1236	1183	1116	1064	1020	989	893	792	457	94.9	106	45.2	1.41	0.00	0.00
30	1215	1208	1191	1163	1108	1045	1006	967	952	835	763	300	87.2	108	41.4	0.25	0.00	0.00
35	1142	1135	1120	1090	1034	975	942	914	870	767	630	199	86.6	91.5	30.3	0.13	0.00	0.00
40	1069	1061	1048	1017	960	906	877	860	789	699	497	96.8	86.0	74.7	19.1	0.00	0.00	0.00
45	998	990	971	928	877	841	825	789	717	580	295	82.4	89.6	58.3	13.1	0.00	0.00	0.00
50	928	919	894	839	794	776	773	718	645	461	92.6	68.0	93.2	41.9	7.04	0.00	0.00	0.00
55	857	847	809	758	733	737	685	640	398	263	76.6	74.6	67.0	26.6	3.52	0.00	0.00	0.00
60	786	776	725	677	672	699	597	561	151	64.9	60.6	81.2	40.7	11.3	0.00	0.00	0.00	0.00
65	621	602	574	588	567	524	334	305	96.5	62.9	54.4	55.1	24.6	5.64	0.00	0.00	0.00	0.00
70	456	428	424	500	463	349	71.2	49.7	41.8	60.8	48.2	28.9	8.43	0.00	0.00	0.00	0.00	0.00
75	288	307	236	261	241	183	47.1	40.4	32.1	38.4	27.0	14.5	4.22	0.00	0.00	0.00	0.00	0.00
80	120	185	49.1	21.9	20.1	17.2	23.0	31.1	22.4	15.9	5.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: