

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	328.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	159.0V x 172.0H
	At 50% of Imax	118.6V x 114.0H
	At 90% of Imax	57.8V x 48.3H

Beam Flux	Total	997.1 lumens per klm.
	To 10% of Imax	988.0 lumens per klm.
	To 50% of Imax	750.2 lumens per klm.
	To 90% of Imax	201.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

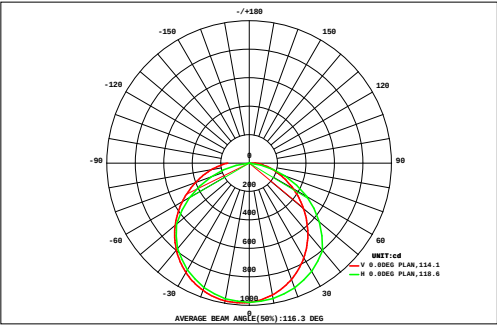
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

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:221.0V I:0.2179A P:29.41W PF:1.000 Freq:50.00Hz Lamp Flux:2994.25x1 lm		
NAME: 8.02.038.0040 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411029
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:101.80lm/W	
MODELLS-WZB-W40-L12-DIM	Imax(cd)	984.7	
NOMINAL POWER(W)	29	AVAILABILITY(%)	99.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2975
NOMINAL FLUX(lm)	2994.25	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2994
TEST VOLTAGE(V)	220	θ @50%(H,V)	114, 119DEG

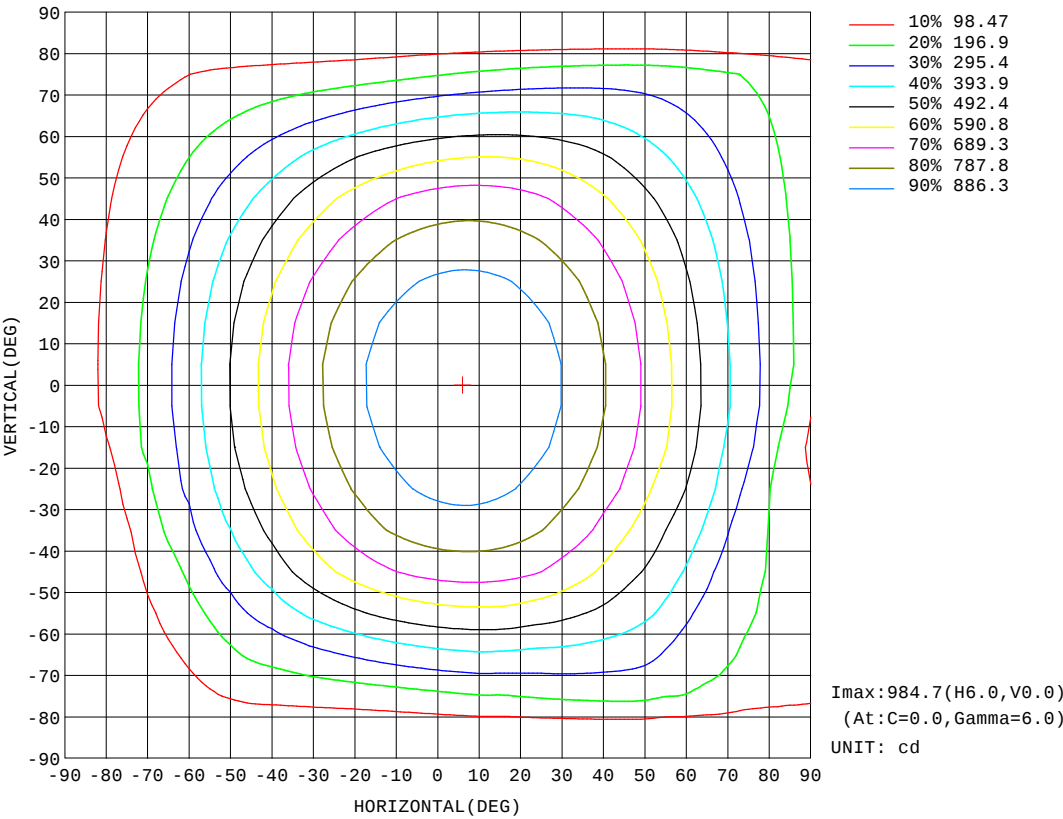
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.16	0.62	1.28	2.12	2.85	3.48	4.03	4.63	5.38	6.17	6.76	7.01	6.83	6.16	4.99	3.36	1.83	0.55	68.2	65.4
70	0.15	0.68	1.60	2.94	4.51	6.24	8.07	9.84	11.3	12.0	12.0	11.2	9.73	7.83	5.66	3.53	1.76	0.48	109	109
60	0.17	0.84	2.12	4.06	6.58	9.54	12.6	15.3	17.1	17.8	17.4	15.8	13.3	10.1	6.98	4.19	1.99	0.51	156	156
50	0.19	0.99	2.61	5.14	8.43	12.3	16.3	19.6	21.7	22.4	21.6	19.4	16.0	12.1	8.18	4.80	2.20	0.54	195	194
40	0.21	1.13	3.04	6.06	9.99	14.5	18.8	22.4	24.7	25.3	24.3	21.7	18.0	13.6	9.20	5.33	2.40	0.57	221	221
30	0.22	1.25	3.39	6.78	11.2	16.0	20.7	24.5	26.9	27.5	26.4	23.6	19.5	14.8	9.97	5.73	2.54	0.58	241	241
20	0.23	1.33	3.62	7.26	11.9	17.1	22.0	25.9	28.4	29.0	27.8	24.8	20.5	15.5	10.5	5.98	2.63	0.60	255	255
10	0.23	1.37	3.74	7.46	12.3	17.6	22.6	26.6	29.1	29.7	28.5	25.4	21.1	16.0	10.7	6.14	2.69	0.60	262	262
0	0.21	1.36	3.73	7.46	12.3	17.5	22.5	26.6	29.1	29.7	28.4	25.4	21.0	15.9	10.7	6.13	2.69	0.58	261	261
-10	0.16	1.26	3.59	7.21	11.9	17.0	21.9	25.9	28.4	29.0	27.8	24.8	20.5	15.5	10.5	5.93	2.56	0.48	254	254
-20	0.11	1.03	3.29	6.71	11.1	16.0	20.8	24.6	27.0	27.7	26.5	23.6	19.5	14.6	9.70	5.47	2.21	0.41	240	240
-30	0.12	0.76	2.79	5.93	9.90	14.5	19.0	22.7	25.1	25.7	24.6	21.8	17.8	13.2	8.63	4.93	1.90	0.44	220	219
-40	0.13	0.65	2.08	4.94	8.37	12.4	16.4	19.7	21.8	22.4	21.6	19.2	15.5	11.3	7.75	4.11	1.81	0.43	191	190
-50	0.14	0.58	1.57	3.71	6.53	9.57	12.5	14.9	16.5	17.1	16.7	15.0	12.4	9.64	6.48	3.49	1.68	0.40	149	148
-60	0.13	0.51	1.14	2.52	4.50	6.18	7.96	9.59	10.8	11.5	11.2	10.1	8.98	7.32	5.02	2.99	1.44	0.36	102	101
-70	0.12	0.41	0.78	1.54	2.51	3.15	3.73	4.33	4.99	5.55	5.63	5.69	5.43	4.82	3.56	2.36	1.17	0.35	56.1	51.4
-80	0.05	0.16	0.26	0.45	0.62	0.63	0.54	0.43	0.47	0.68	0.94	1.29	1.53	1.55	1.23	0.91	0.50	0.16	12.4	6.59
-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	2.75	14.9	40.6	82.3	135	194	250	297	329	339	328	296	248	190	130	75.4	34.0	8.03	2994	---
Φ a	0.39	10.8	37.9	80.6	134	192	249	296	328	339	327	295	248	190	130	75.4	34.0	8.03	---	2975

one-half-peak spread: U:59.0,D:60.1 , L:56.8,R:58.0 NEMA Beam Type: Type 7

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:221.0V I:0.2179A P:29.41W PF:1.000 Freq:50.00Hz Lamp Flux:2994.25x1 lm		
NAME: 8.02.038.0040 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411029
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

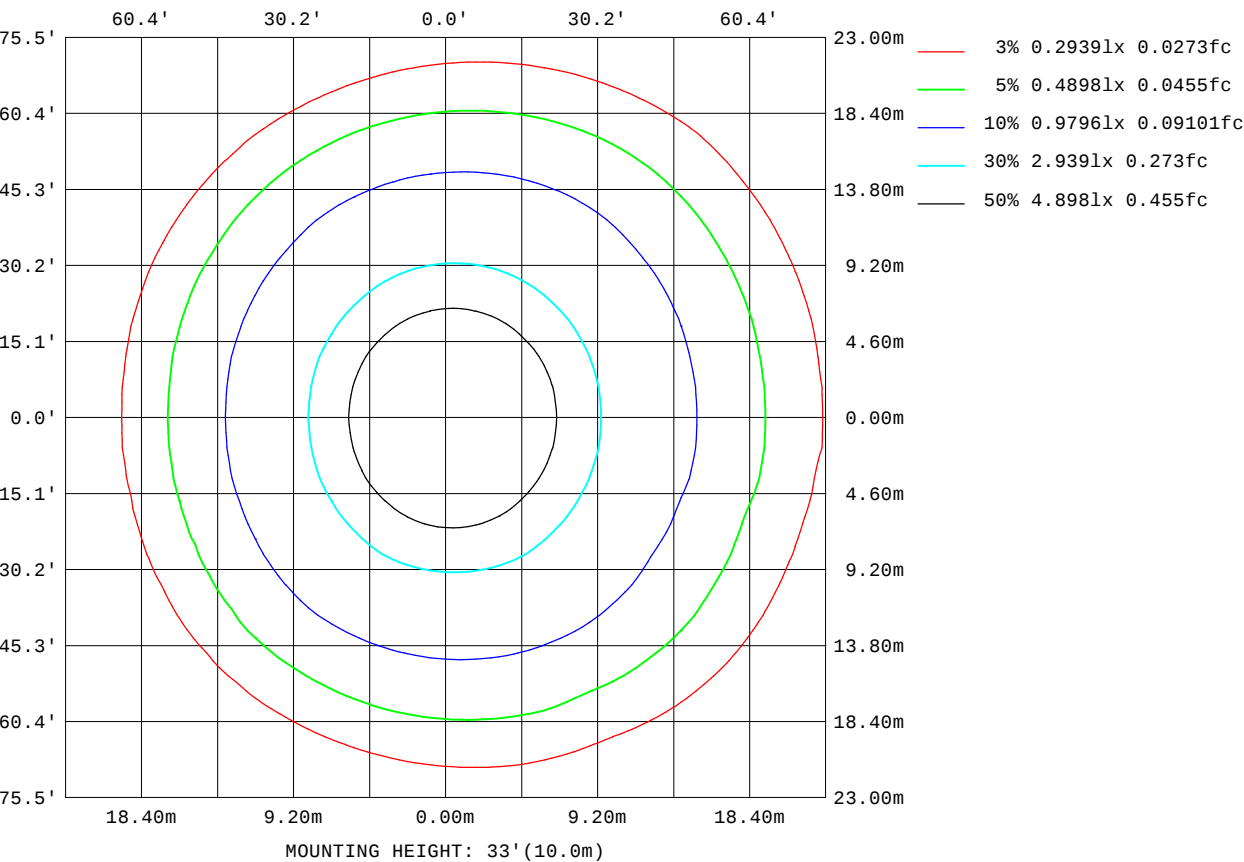


H(β) Range:-90 - 90DEG
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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

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

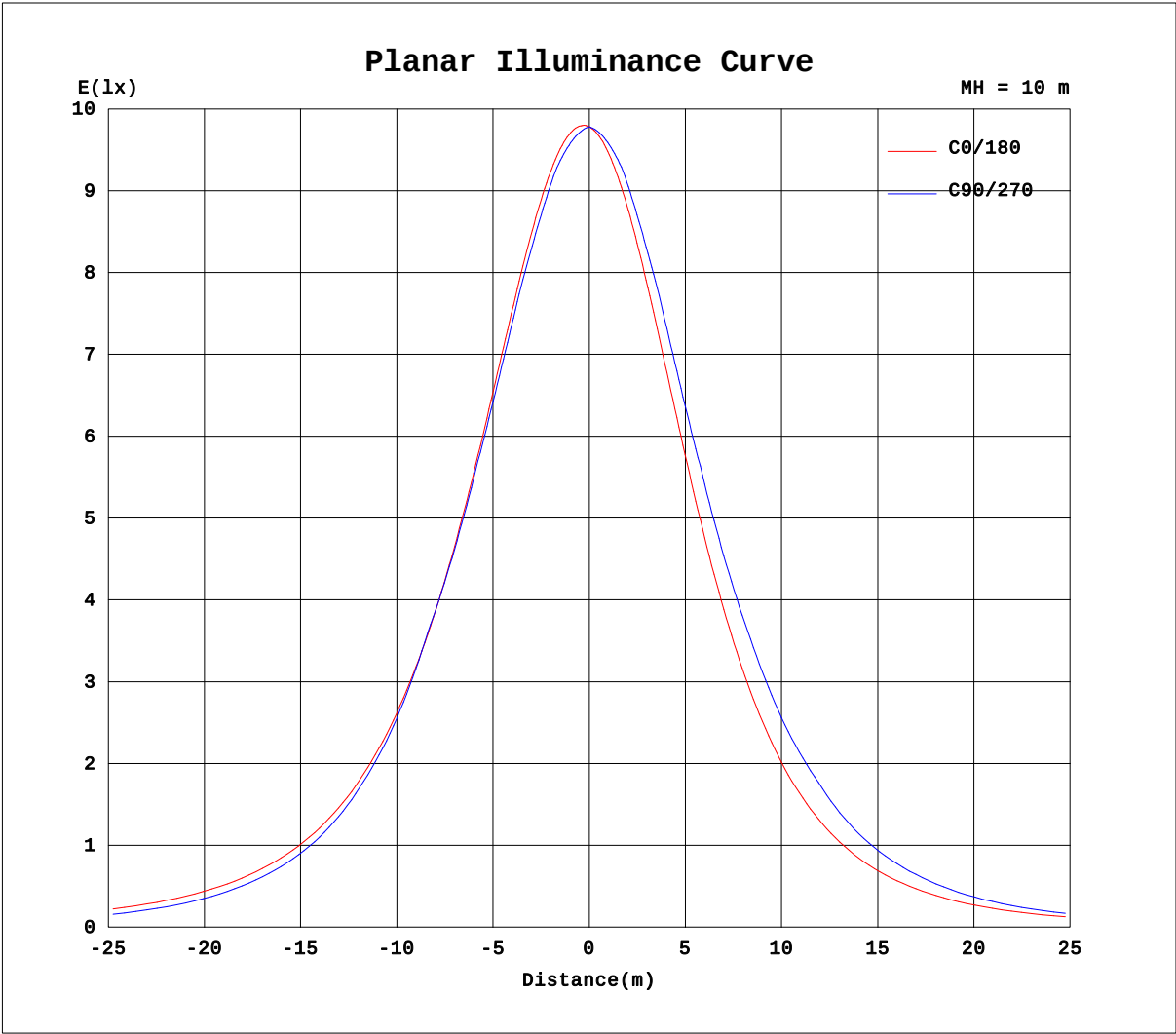
Test:U:221.0V I:0.2179A P:29.41W PF:1.000 Freq:50.00Hz Lamp Flux:2994.25x1 lm		
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SPEC.:	DIM.:	SERIAL No.:202411029
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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

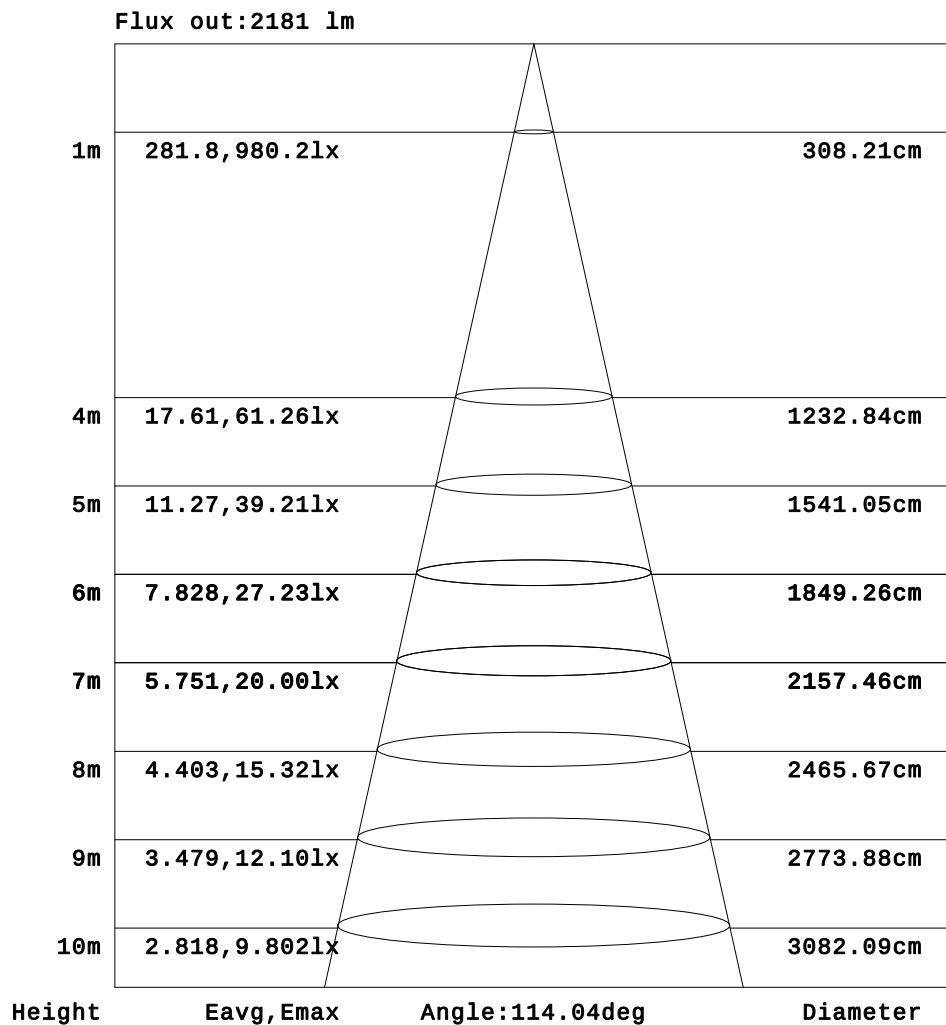


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-12

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:221.0V I:0.2179A P:29.41W PF:1.000 Freq:50.00Hz Lamp Flux:2994.25x1 lm		
NAME: 8.02.038.0040 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411029
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:221.0V I:0.2179A P:29.41W PF:1.000 Freq:50.00Hz Lamp Flux:2994.25x1 lm		
NAME: 8.02.038.0040 120° LLS-WZB-W40-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411029
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	39.5	42.0	43.8	44.5	45.8	46.3	52.4	64.3	72.3	79.1	78.9	76.7	74.5	72.3	70.0	68.9	70.3	75.0	82.3
-75	39.5	43.9	47.9	51.1	54.6	58.4	71.3	88.9	106	120	125	130	134	139	144	150	158	166	175
-70	39.4	45.9	52.0	57.7	63.5	70.5	90.2	114	139	161	171	182	194	205	218	231	245	257	269
-65	39.1	47.5	55.6	63.5	71.7	86.3	112	144	179	210	228	247	269	288	306	325	341	356	367
-60	38.8	49.2	59.2	69.4	80.0	102	135	174	218	258	285	312	344	370	395	418	438	454	466
-55	37.9	49.2	61.4	72.7	88.7	119	160	209	260	302	336	379	417	449	478	503	525	543	556
-50	37.0	49.3	63.6	76.1	97.4	137	186	244	301	346	387	446	490	527	560	589	613	632	645
-45	34.1	45.3	61.8	78.7	110	158	217	279	331	385	436	494	544	588	628	662	689	710	724
-40	31.1	41.3	60.1	81.4	123	180	247	314	360	424	485	542	598	650	696	735	765	788	802
-35	25.3	39.1	60.1	89.8	141	213	269	337	392	456	518	577	634	686	733	771	802	825	840
-30	19.6	36.9	60.1	98.2	159	247	290	360	424	489	551	613	671	723	769	807	838	863	878
-25	16.7	36.4	65.8	121	179	256	310	378	446	512	577	640	698	750	796	834	866	891	906
-20	13.8	35.8	71.6	144	199	264	331	397	467	536	603	666	726	778	823	862	895	918	933
-15	9.11	39.5	92.3	152	210	273	340	408	478	548	616	680	740	793	839	879	911	935	950
-10	4.41	43.2	113	161	221	282	349	418	489	560	629	694	754	808	856	896	928	952	967
-5	10.4	58.4	115	164	222	284	352	422	494	566	635	700	761	815	862	902	934	958	973
0	16.5	73.6	117	167	224	286	356	426	498	571	641	707	768	822	869	908	940	964	978
5	28.0	73.6	117	166	222	285	353	423	494	567	636	702	763	817	864	903	935	958	973
10	39.5	73.6	116	165	221	283	349	419	491	562	632	697	758	811	858	898	929	953	968
15	39.7	72.9	114	161	216	276	342	411	480	551	619	683	742	795	841	880	911	934	949
20	39.8	72.1	112	158	210	269	334	402	470	539	605	669	727	779	824	862	893	916	930
25	39.8	70.4	108	152	203	258	320	384	450	515	580	641	698	749	794	832	862	885	899
30	39.7	68.8	104	145	195	248	306	367	429	492	554	613	669	719	763	801	831	853	868
35	39.5	67.1	100	138	183	232	286	343	402	461	519	576	630	679	722	759	789	811	826
40	39.3	65.4	96.0	131	171	216	266	318	375	429	485	539	591	639	681	717	747	769	784
45	39.3	62.8	90.7	122	158	199	244	291	340	389	440	490	540	586	626	661	689	710	725
50	39.3	60.2	85.4	113	145	182	222	263	305	349	394	441	488	532	571	604	631	652	667
55	39.1	58.0	79.3	104	131	162	196	232	267	304	342	380	419	456	489	518	542	562	577
60	39.0	55.8	73.1	94.5	117	142	171	200	228	259	289	319	351	380	407	432	454	473	487
65	38.9	53.3	67.3	84.1	103	123	146	169	190	211	232	253	275	296	317	338	357	373	387
70	38.8	50.9	61.5	73.8	88.7	104	120	138	151	163	175	187	199	213	227	243	259	274	287
75	39.1	46.0	56.7	65.4	75.6	85.9	97.7	109	117	122	128	133	138	144	151	159	169	179	191
80	39.3	41.2	51.9	57.0	62.5	68.1	75.0	80.2	81.9	81.7	80.8	79.4	77.5	75.9	74.8	75.2	78.7	85.5	94.6
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
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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:221.0V I:0.2179A P:29.41W PF:1.000 Freq:50.00Hz Lamp Flux:2994.25x1 lm																	
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SPEC.:									DIM.:						SERIAL No.:202411029		
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	91.3	101	107	119	132	144	156	166	173	169	159	165	153	143	133	127	125	119
-75	185	193	193	200	208	215	220	224	226	221	200	194	181	166	145	135	127	119
-70	278	285	279	281	285	286	285	283	279	272	242	224	208	189	157	144	129	119
-65	376	382	379	373	367	365	358	349	338	322	285	251	230	208	178	149	133	118
-60	474	479	479	465	449	444	432	415	397	372	328	279	253	228	199	155	137	117
-55	564	567	565	554	538	519	496	473	445	412	370	312	270	240	210	170	139	116
-50	653	655	652	643	627	594	560	530	493	453	413	345	287	253	220	186	142	114
-45	731	732	725	712	690	656	617	573	526	486	443	384	314	262	226	191	144	113
-40	809	808	799	781	753	718	674	616	560	519	472	423	341	271	232	195	146	112
-35	847	846	836	817	790	755	713	661	605	550	493	444	376	300	235	194	150	111
-30	885	884	873	854	827	793	752	706	651	581	514	465	411	328	238	194	154	109
-25	912	910	900	881	854	820	778	731	677	612	548	490	423	345	270	200	146	101
-20	939	937	927	907	881	847	805	757	703	644	581	515	435	362	301	206	138	92.9
-15	956	954	944	925	898	863	821	773	719	659	595	527	453	382	317	229	153	76.7
-10	974	972	961	942	915	880	838	789	734	673	608	540	470	401	332	252	169	60.6
-5	979	977	966	947	920	885	842	793	738	677	611	542	472	402	334	261	189	107
0	985	982	971	952	924	889	847	797	741	680	614	544	473	403	335	270	209	153
5	979	977	966	947	920	885	843	793	738	677	611	542	471	401	333	268	208	152
10	974	972	961	942	916	881	839	790	735	673	608	539	469	400	331	266	206	152
15	955	954	943	925	898	864	822	774	720	660	596	528	460	392	326	263	206	152
20	937	935	925	907	881	847	806	759	705	647	583	518	451	385	322	261	205	152
25	906	905	895	877	852	820	781	736	684	628	567	504	440	377	314	256	202	152
30	875	874	865	848	824	793	756	712	663	608	550	489	428	368	307	252	200	152
35	833	832	824	808	785	755	719	678	631	579	524	467	410	353	297	246	197	152
40	791	791	782	768	746	718	683	643	598	549	497	445	391	338	288	240	195	152
45	734	735	729	717	697	670	637	599	557	513	466	418	370	320	274	231	190	151
50	676	679	676	666	648	623	591	556	517	476	435	392	349	302	261	222	185	151
55	587	591	590	584	572	553	530	502	469	434	398	362	324	284	248	214	182	151
60	497	503	505	502	495	484	469	448	420	391	362	332	299	266	235	206	178	150
65	397	405	409	409	407	401	393	380	364	345	323	300	273	246	221	197	174	150
70	298	306	313	317	318	318	316	313	308	299	285	268	247	226	206	187	169	151
75	201	212	221	229	236	242	247	250	252	251	245	234	219	205	191	177	163	150
80	105	117	129	142	154	167	178	188	196	203	206	200	192	184	175	167	158	149
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(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: