

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	326.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	159.0V x 172.3H
	At 50% of Imax	119.1V x 114.3H
	At 90% of Imax	58.4V x 48.4H

Beam Flux	Total	996.9 lumens per klm.
	To 10% of Imax	988.0 lumens per klm.
	To 50% of Imax	753.8 lumens per klm.
	To 90% of Imax	203.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

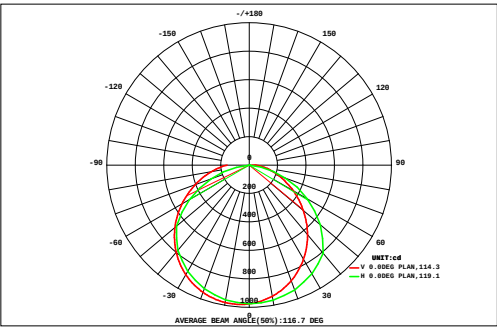
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-14

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:220.7V I:0.2142A P:28.79W PF:1.000 Freq:50.00Hz Lamp Flux:3007.1x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:104.43lm/W	
MODEL	LLS-WZB-W40-L12-S	Imax(cd)	982.3
NOMINAL POWER(W)	28	AVAILABILITY(%)	99.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2989
NOMINAL FLUX(lm)	3007.1	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3007
TEST VOLTAGE(V)	220	θ @50%(H,V)	114, 119DEG

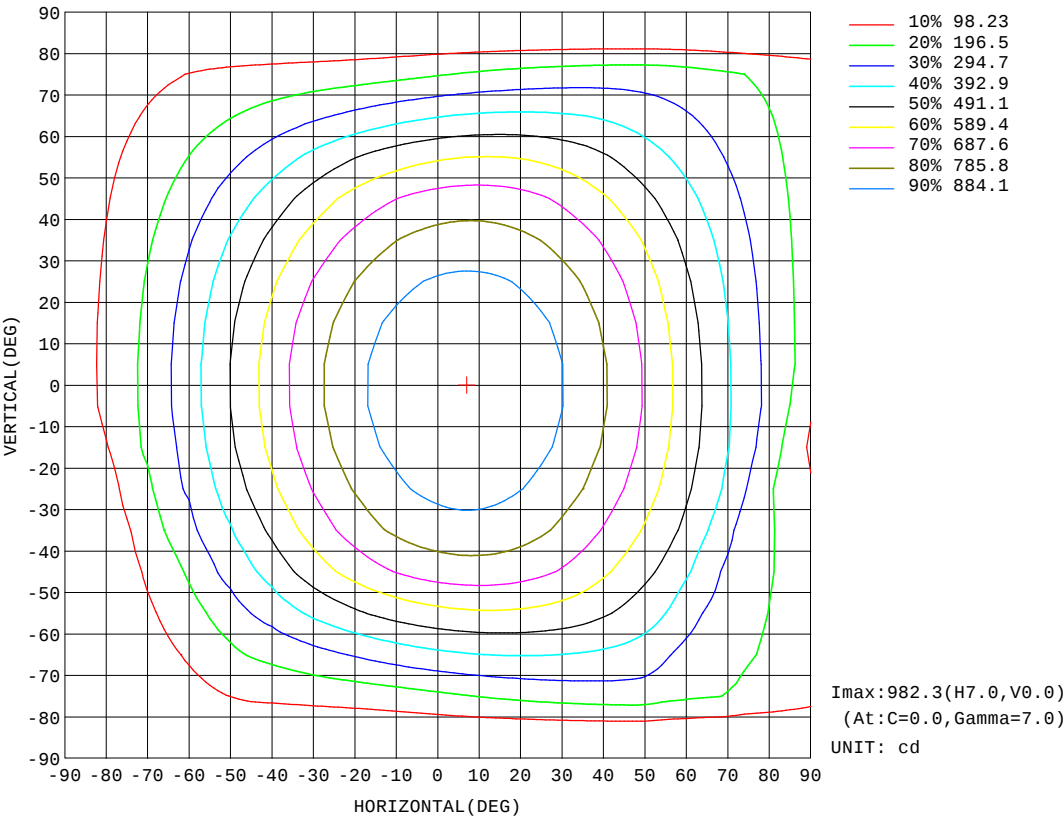
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.17	0.65	1.32	2.18	2.92	3.53	4.05	4.60	5.32	6.10	6.69	6.97	6.81	6.17	5.02	3.41	1.85	0.56	68.3	65.6
70	0.16	0.70	1.63	2.97	4.54	6.26	8.05	9.81	11.2	12.0	11.9	11.2	9.74	7.85	5.69	3.58	1.79	0.49	110	109
60	0.18	0.86	2.14	4.07	6.56	9.51	12.6	15.2	17.1	17.8	17.4	15.8	13.3	10.2	7.00	4.23	2.02	0.52	157	156
50	0.20	1.01	2.64	5.13	8.39	12.2	16.2	19.5	21.7	22.4	21.6	19.4	16.0	12.1	8.20	4.82	2.22	0.55	194	194
40	0.21	1.15	3.06	6.04	9.92	14.3	18.7	22.2	24.5	25.2	24.2	21.7	18.0	13.6	9.21	5.35	2.42	0.57	220	220
30	0.22	1.26	3.41	6.76	11.1	15.9	20.5	24.3	26.7	27.4	26.3	23.5	19.5	14.8	9.99	5.75	2.56	0.59	240	240
20	0.24	1.34	3.63	7.24	11.9	17.0	21.8	25.7	28.2	28.9	27.7	24.8	20.5	15.6	10.5	6.00	2.65	0.60	254	254
10	0.24	1.38	3.75	7.44	12.2	17.5	22.4	26.4	28.9	29.6	28.4	25.4	21.1	16.0	10.8	6.16	2.70	0.61	261	261
0	0.22	1.37	3.74	7.44	12.2	17.4	22.4	26.5	29.0	29.7	28.4	25.4	21.1	16.0	10.8	6.16	2.71	0.60	261	261
-10	0.16	1.27	3.58	7.17	11.8	16.9	21.8	25.8	28.3	29.0	27.8	24.9	20.6	15.6	10.5	6.05	2.64	0.51	255	254
-20	0.11	1.04	3.26	6.63	11.0	15.9	20.7	24.5	27.0	27.8	26.6	23.8	19.6	14.8	10.00	5.75	2.35	0.43	241	241
-30	0.12	0.75	2.73	5.81	9.74	14.3	18.9	22.7	25.2	25.9	24.9	22.1	18.2	13.7	9.23	5.21	2.01	0.47	222	221
-40	0.13	0.64	2.04	4.82	8.21	12.2	16.3	19.7	21.9	22.7	21.9	19.6	16.2	12.1	8.18	4.36	1.93	0.47	193	193
-50	0.13	0.56	1.54	3.63	6.39	9.43	12.4	14.9	16.7	17.4	17.1	15.7	13.3	10.2	6.88	3.73	1.83	0.46	152	151
-60	0.12	0.48	1.11	2.44	4.36	6.02	7.83	9.54	10.9	11.7	11.7	11.0	9.65	7.89	5.41	3.26	1.65	0.44	105	104
-70	0.10	0.37	0.73	1.45	2.36	2.99	3.58	4.23	4.99	5.70	6.15	6.26	5.99	5.36	3.99	2.65	1.39	0.41	58.7	53.8
-80	0.05	0.14	0.24	0.41	0.56	0.56	0.47	0.39	0.46	0.72	1.11	1.50	1.77	1.82	1.50	1.05	0.59	0.19	13.5	8.42
-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	2.76	15.0	40.6	81.7	134	192	249	296	328	340	330	299	251	194	133	77.5	35.3	8.47	3007	---
Φ a	0.49	11.1	38.1	80.0	133	191	247	295	327	339	329	299	251	194	133	77.5	35.3	8.46	---	2989

one-half-peak spread: U:59.4,D:60.2 , L:57.7,R:57.2 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:2024-11-14
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:

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.2142A P:28.79W PF:1.000 Freq:50.00Hz Lamp Flux:3007.1x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

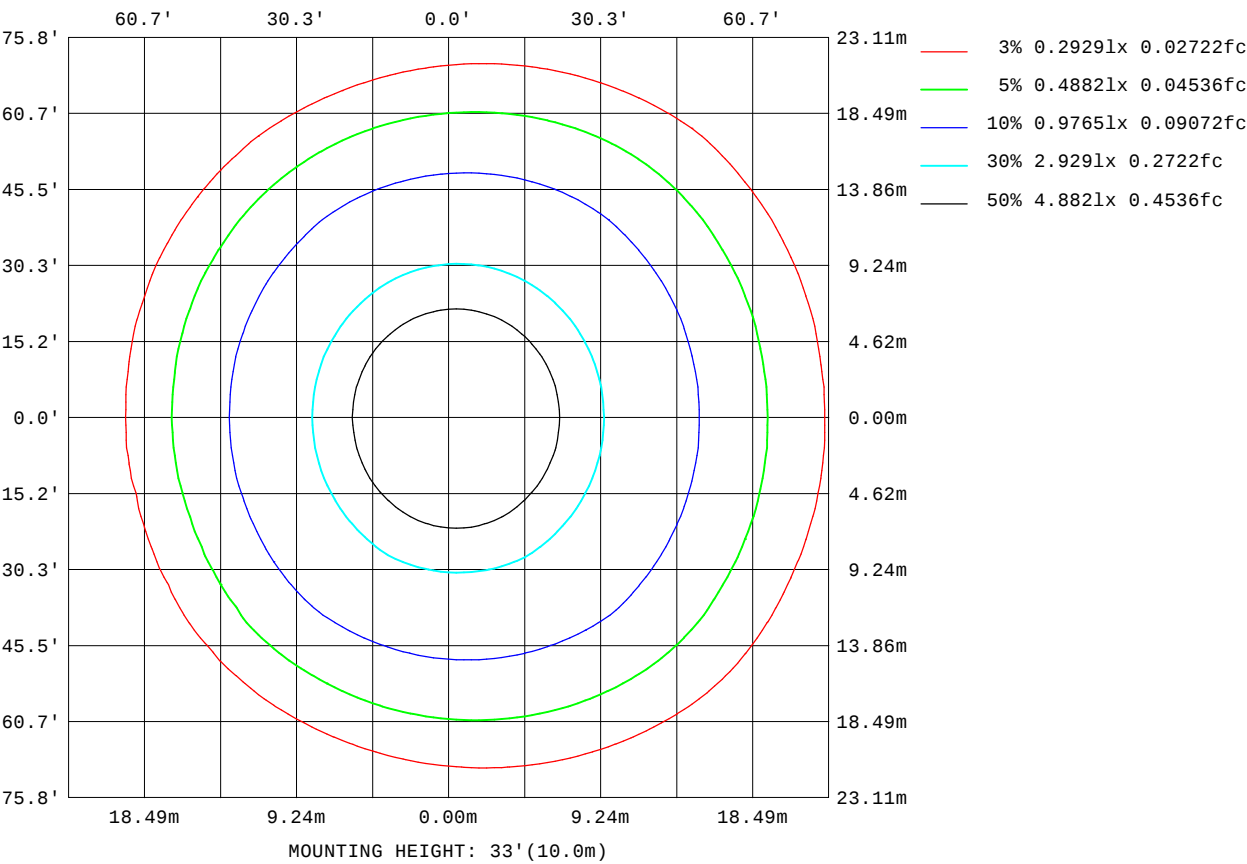


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-14

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

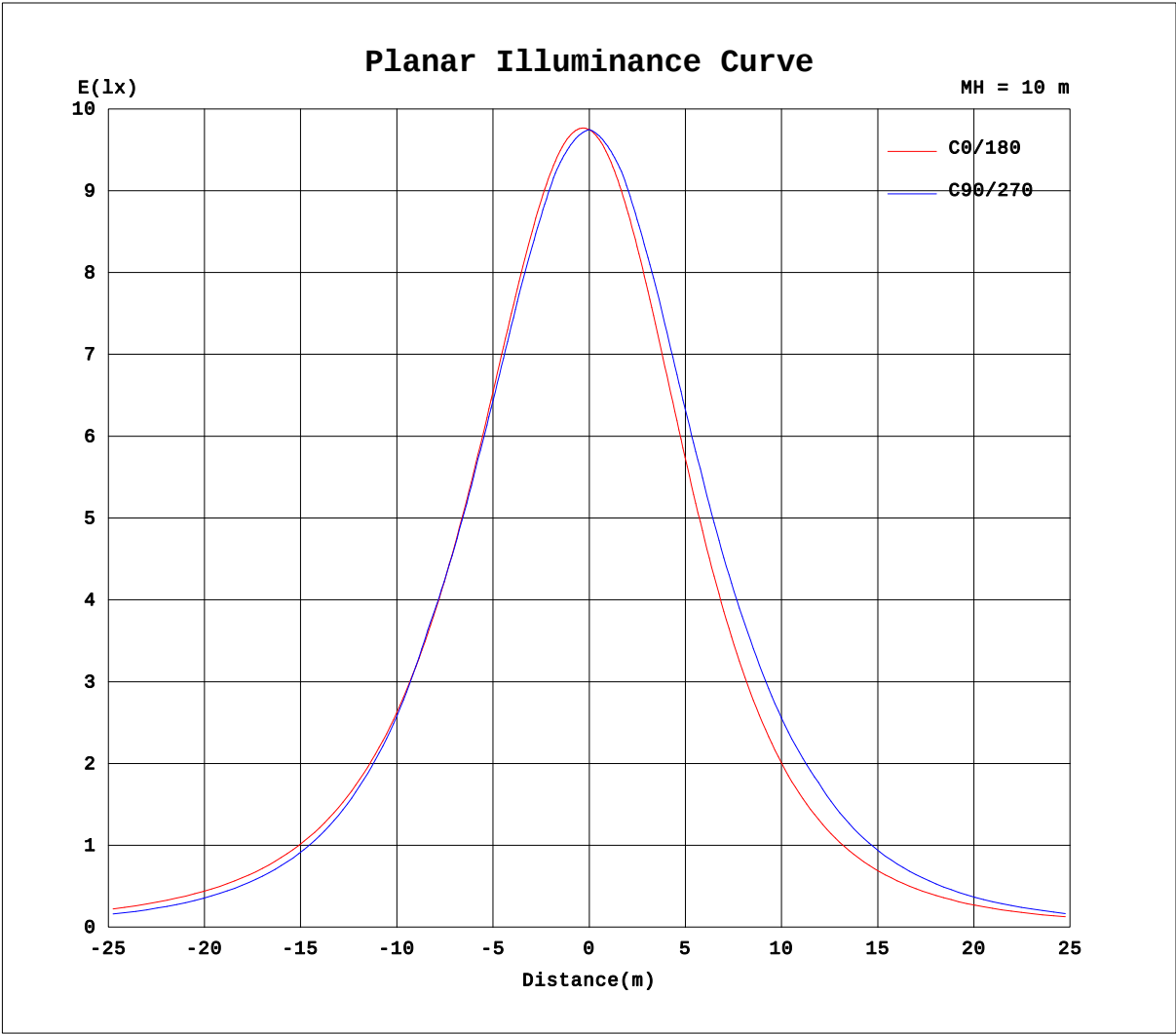
Test:U:220.7V I:0.2142A P:28.79W PF:1.000 Freq:50.00Hz Lamp Flux:3007.1x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-14

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

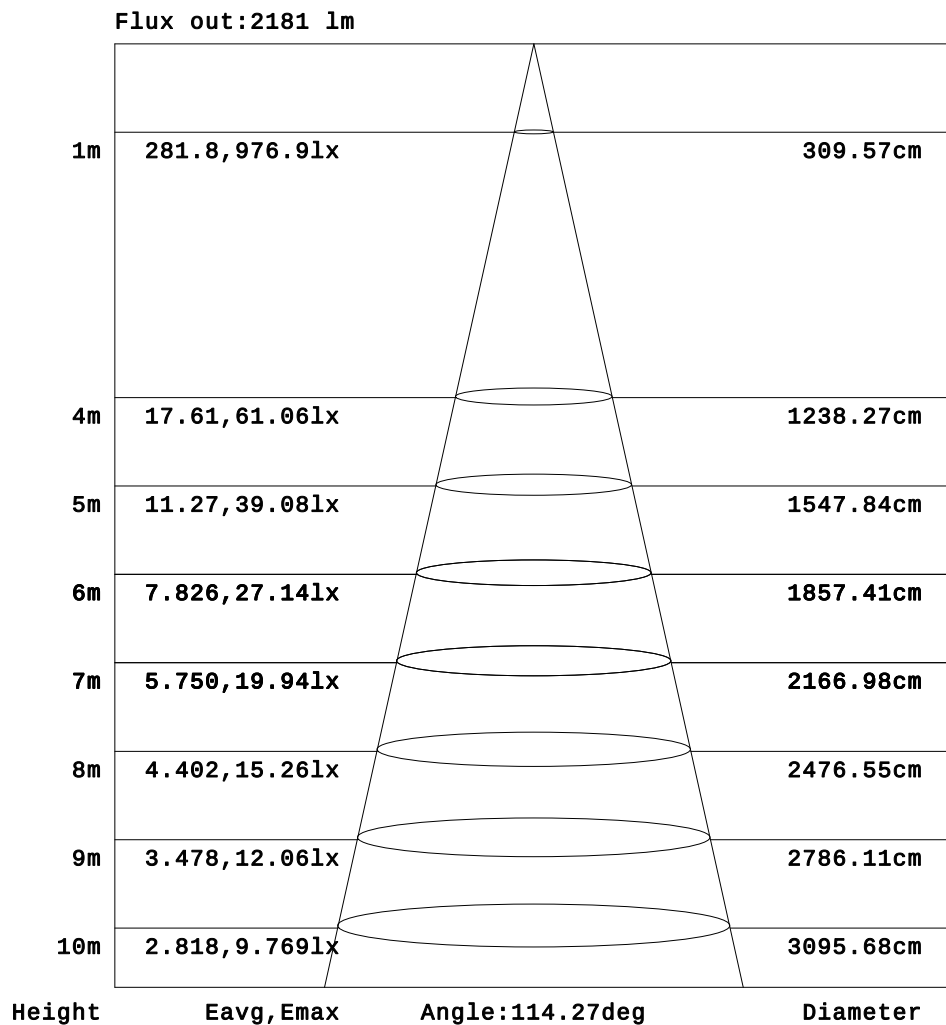


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-14

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:220.7V I:0.2142A P:28.79W PF:1.000 Freq:50.00Hz Lamp Flux:3007.1x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411031
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:2024-11-14

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:220.7V I:0.2142A P:28.79W PF:1.000 Freq:50.00Hz Lamp Flux:3007.1x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(°) \ 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	32.9	35.8	37.5	39.4	41.3	42.8	48.9	59.5	66.7	73.4	72.9	71.0	69.2	67.4	65.7	65.2	67.6	74.0	83.3
-75	33.2	38.0	42.0	46.3	50.6	55.2	67.7	84.0	99.7	114	119	123	129	134	139	147	156	166	178
-70	33.5	40.3	46.6	53.1	60.0	67.6	86.4	109	133	154	164	176	188	200	213	228	244	259	272
-65	33.9	42.6	51.0	59.4	68.6	83.8	109	140	173	203	221	241	263	283	303	323	341	358	372
-60	34.3	44.8	55.4	65.8	77.3	100	131	171	213	252	279	306	338	366	392	417	439	457	472
-55	33.8	45.2	58.2	70.1	86.8	117	157	205	254	296	330	373	412	445	476	504	528	547	562
-50	33.3	45.5	61.1	74.4	96.4	134	182	240	295	340	381	440	486	525	560	591	617	637	653
-45	30.7	42.6	60.0	77.2	109	155	212	273	324	379	429	488	539	585	627	663	692	715	731
-40	28.1	39.6	59.0	80.0	121	176	242	306	352	417	477	536	593	646	694	735	767	792	809
-35	23.3	38.3	59.5	89.3	139	209	263	330	385	450	511	571	629	683	730	770	803	829	845
-30	18.5	37.0	60.1	98.7	158	242	285	354	418	482	545	607	666	719	767	806	839	865	882
-25	16.6	36.9	67.0	122	178	252	306	374	440	507	572	635	693	746	793	833	866	891	907
-20	14.6	36.8	73.9	146	199	263	328	394	463	531	598	662	721	773	820	860	893	917	933
-15	10.4	41.6	94.2	154	210	272	338	406	475	544	612	676	735	789	836	876	909	933	949
-10	6.13	46.3	114	162	221	280	348	417	487	557	626	690	750	804	852	892	925	949	965
-5	12.8	59.2	115	166	223	284	353	421	492	563	632	697	757	811	858	898	930	954	970
0	19.4	72.1	115	169	225	287	357	426	497	568	638	703	763	817	864	904	936	960	975
5	29.6	73.7	116	168	224	286	353	422	493	564	633	698	758	811	858	897	929	953	969
10	39.8	75.3	118	167	223	284	350	419	489	559	628	692	752	805	851	891	923	947	962
15	40.6	74.8	116	163	218	277	342	410	478	547	614	677	736	788	834	873	904	928	943
20	41.5	74.2	114	160	213	270	334	401	467	535	600	663	720	772	817	855	886	909	925
25	41.5	72.4	110	154	205	260	320	383	447	511	575	635	692	742	787	825	855	879	894
30	41.5	70.7	106	148	197	250	306	366	427	488	549	608	663	713	757	795	825	848	863
35	41.2	69.0	102	141	185	234	287	342	400	457	515	572	625	674	717	754	784	807	822
40	40.9	67.3	98.2	133	173	218	267	318	373	427	481	535	587	635	677	713	743	766	781
45	40.8	64.9	92.9	124	160	201	245	291	339	387	437	487	536	582	623	658	686	708	724
50	40.7	62.4	87.6	115	147	184	223	263	304	347	392	438	485	529	569	603	630	651	666
55	40.3	60.1	81.2	106	133	165	198	232	267	303	341	379	418	454	488	517	541	561	576
60	39.9	57.7	74.8	96.7	119	145	173	201	229	259	290	319	351	379	406	431	453	472	486
65	39.8	55.2	69.1	86.1	105	125	148	170	191	212	233	254	275	296	316	337	355	372	386
70	39.8	52.7	63.4	75.5	91.0	106	123	139	153	165	177	188	200	212	226	242	257	272	285
75	40.4	49.5	59.0	67.7	78.1	88.7	100	112	119	125	130	135	139	145	151	158	167	178	189
80	40.9	46.4	54.6	59.9	65.3	71.3	78.1	83.5	84.7	84.3	83.1	81.3	79.0	76.8	75.1	74.7	77.4	83.5	92.4
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
Test Date:2024-11-14

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:220.7V I:0.2142A P:28.79W PF:1.000 Freq:50.00Hz Lamp Flux:3007.1x1 lm																	
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S									TYPE:LED						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:202411031		
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:						Shielding Angle:		

Table--2																		UNIT: cd	
H(DEC) V(DEC)	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	94.6	107	120	135	149	163	176	187	197	198	189	185	178	168	157	150	142	133	
-75	189	200	211	220	229	237	243	248	251	248	227	215	204	192	172	162	147	132	
-70	284	293	301	306	309	310	310	308	305	298	264	245	231	216	188	173	152	131	
-65	383	391	396	398	397	392	386	377	365	347	307	271	251	232	205	179	157	131	
-60	483	489	492	490	484	474	461	445	424	396	350	297	272	247	221	185	161	131	
-55	573	578	578	574	565	551	531	503	473	437	393	332	288	259	229	194	162	132	
-50	662	667	665	658	645	627	600	562	521	478	436	367	303	270	237	202	163	133	
-45	740	742	737	725	705	679	646	605	561	515	467	407	332	278	242	206	162	131	
-40	818	818	810	792	765	731	692	648	601	551	499	447	361	287	248	210	161	129	
-35	854	854	845	827	800	766	727	682	633	580	525	469	397	317	250	207	162	124	
-30	890	889	880	862	835	802	761	715	665	609	551	492	432	346	251	204	164	118	
-25	915	914	905	887	861	827	786	739	687	630	569	507	444	368	286	210	154	109	
-20	940	939	929	911	886	852	810	763	709	650	587	522	456	390	321	215	143	98.7	
-15	956	955	945	927	901	867	826	777	723	664	599	532	465	397	328	243	162	80.9	
-10	972	971	961	943	916	882	841	792	737	677	612	543	473	404	336	271	180	63.2	
-5	977	976	966	947	921	886	845	796	740	680	614	544	474	404	336	271	196	109	
0	982	980	970	952	925	890	848	799	743	682	616	546	475	405	337	272	212	156	
5	976	974	964	946	920	885	844	795	739	679	613	543	473	403	335	270	210	155	
10	969	968	958	940	914	880	839	790	736	675	610	541	471	402	333	268	209	155	
15	951	949	940	922	897	863	822	775	721	661	597	530	462	394	328	266	208	155	
20	932	931	922	904	879	846	806	759	706	648	584	519	453	387	324	264	207	155	
25	901	901	892	875	851	819	781	736	685	628	568	505	441	378	316	259	205	155	
30	871	871	863	846	822	792	755	712	663	609	551	491	430	370	309	254	203	155	
35	830	830	822	806	784	755	719	678	631	579	524	468	412	355	300	248	200	155	
40	789	789	781	766	746	718	683	643	598	550	498	446	393	341	290	243	198	155	
45	732	734	728	716	697	671	638	600	558	513	467	420	372	323	277	234	194	155	
50	676	679	676	666	648	623	592	557	518	477	436	394	351	305	264	225	189	155	
55	586	591	590	584	572	554	531	503	469	435	399	364	326	287	251	217	185	154	
60	497	503	504	502	495	484	470	449	421	392	363	333	302	270	239	210	182	154	
65	396	404	408	409	406	401	393	381	365	346	325	302	276	250	224	200	177	154	
70	296	305	312	316	318	318	316	313	309	300	287	270	250	229	210	191	172	154	
75	200	210	219	228	235	242	247	250	253	252	247	237	222	208	194	180	166	153	
80	103	115	127	140	153	166	177	188	196	203	207	203	195	186	177	169	160	151	
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:2024-11-14

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: