

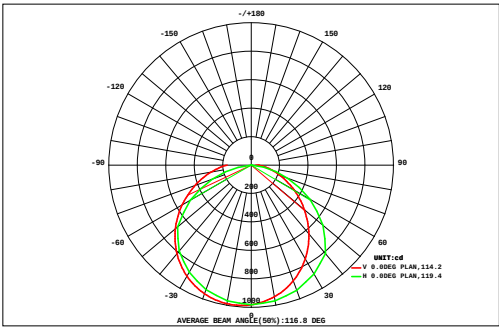
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		326.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	159.3V x 172.2H
	At 50% of Imax	119.4V x 114.2H
	At 90% of Imax	58.0V x 48.5H
Beam Flux	Total	996.8 lumens per klm.
	To 10% of Imax	987.7 lumens per klm.
	To 50% of Imax	753.4 lumens per klm.
	To 90% of Imax	201.7 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.7 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:0.2145A P:29.12W PF:1.000 Freq:50.00Hz Lamp Flux:3029.16x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411078
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:104.02lm/W	
MODEL	LLS-WZB-W40-L12-S	Imax(cd)	989.9
NOMINAL POWER(W)	29	AVAILABILITY(%)	99.3
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	3009
NOMINAL FLUX(lm)	3029.16	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3029
TEST VOLTAGE(V)	220	θ @50%(H,V)	114, 119DEG

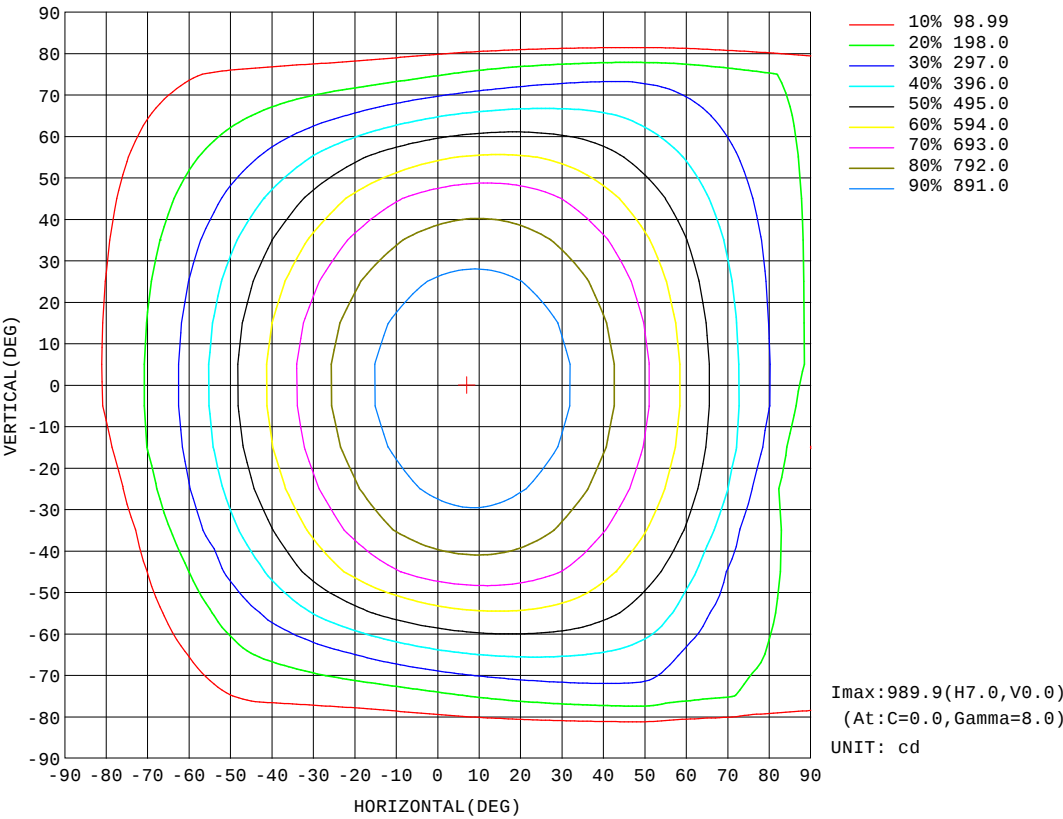
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.16	0.59	1.22	2.00	2.68	3.27	3.80	4.40	5.28	6.28	7.10	7.53	7.45	6.80	5.53	3.78	2.08	0.63	70.6	67.0
70	0.15	0.65	1.52	2.77	4.25	5.95	7.79	9.69	11.3	12.3	12.4	11.7	10.3	8.39	6.09	3.88	1.97	0.55	112	111
60	0.17	0.81	2.01	3.83	6.22	9.11	12.3	15.1	17.2	18.1	17.8	16.3	13.8	10.6	7.41	4.54	2.21	0.58	158	158
50	0.18	0.95	2.49	4.86	8.04	11.9	15.9	19.5	21.8	22.7	22.0	19.9	16.5	12.5	8.61	5.14	2.43	0.61	196	196
40	0.20	1.09	2.90	5.75	9.57	14.0	18.5	22.2	24.7	25.5	24.6	22.2	18.5	14.1	9.61	5.66	2.61	0.64	222	222
30	0.21	1.19	3.24	6.48	10.7	15.6	20.4	24.3	26.8	27.6	26.6	24.0	20.0	15.3	10.4	6.05	2.75	0.65	242	242
20	0.22	1.27	3.46	6.96	11.5	16.7	21.7	25.7	28.3	29.1	28.0	25.2	21.0	16.0	10.9	6.30	2.83	0.66	256	256
10	0.23	1.31	3.58	7.17	11.9	17.2	22.3	26.4	29.0	29.8	28.7	25.8	21.5	16.4	11.2	6.45	2.89	0.67	263	262
0	0.21	1.30	3.57	7.17	11.9	17.2	22.2	26.4	29.0	29.8	28.7	25.8	21.5	16.4	11.1	6.44	2.89	0.65	262	262
-10	0.15	1.22	3.45	6.91	11.5	16.6	21.6	25.7	28.3	29.1	28.1	25.2	21.0	16.0	10.9	6.31	2.81	0.56	255	255
-20	0.11	0.99	3.15	6.43	10.7	15.6	20.4	24.4	27.0	27.8	26.8	24.0	20.0	15.2	10.3	5.98	2.50	0.46	242	241
-30	0.11	0.72	2.64	5.65	9.50	14.0	18.6	22.5	25.1	26.0	25.0	22.3	18.4	13.9	9.47	5.43	2.10	0.50	222	222
-40	0.12	0.61	1.96	4.67	8.01	12.0	16.1	19.6	22.0	22.8	22.1	19.8	16.4	12.4	8.40	4.55	2.00	0.50	194	193
-50	0.13	0.53	1.47	3.50	6.21	9.20	12.3	14.9	16.7	17.6	17.3	16.0	13.6	10.5	7.13	3.87	1.92	0.49	153	152
-60	0.11	0.46	1.05	2.36	4.26	5.91	7.71	9.48	11.0	11.8	11.9	11.2	9.90	8.12	5.64	3.36	1.74	0.47	106	105
-70	0.09	0.35	0.70	1.43	2.37	3.00	3.57	4.24	5.06	5.83	6.33	6.47	6.21	5.58	4.18	2.75	1.46	0.43	60.1	55.2
-80	0.04	0.12	0.25	0.45	0.61	0.61	0.53	0.44	0.53	0.84	1.25	1.64	1.90	1.93	1.57	1.09	0.61	0.20	14.6	9.29
-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	2.59	14.2	38.7	78.4	130	188	246	295	329	343	335	305	258	200	138	81.6	37.8	9.25	3029	---
Φ a	0.32	10.0	35.7	76.5	128	186	244	293	328	342	334	305	258	200	138	81.6	37.8	9.24	---	3009

one-half-peak spread: U:59.5,D:60.4 , L:56.9,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:2024-11-25
 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:220.5V I:0.2145A P:29.12W PF:1.000 Freq:50.00Hz Lamp Flux:3029.16x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411078
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

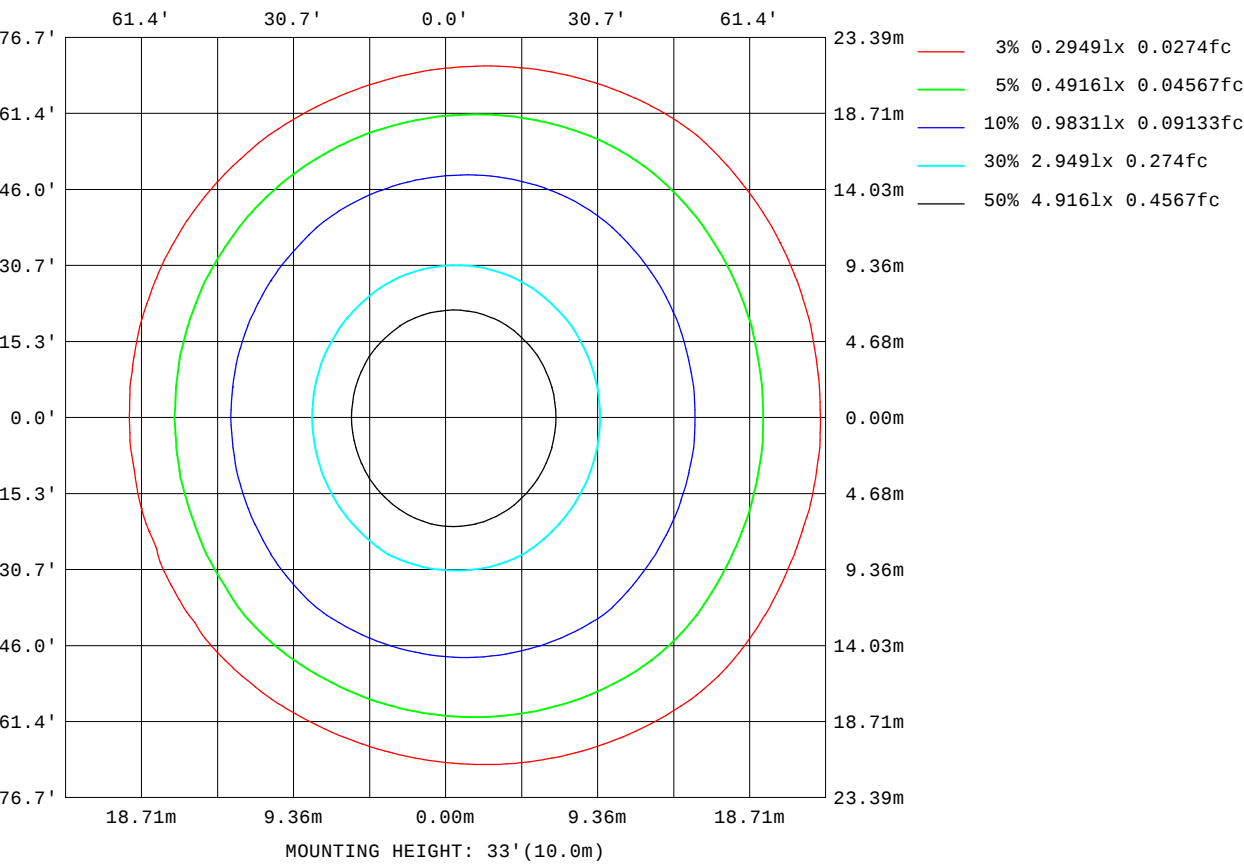


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-25

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

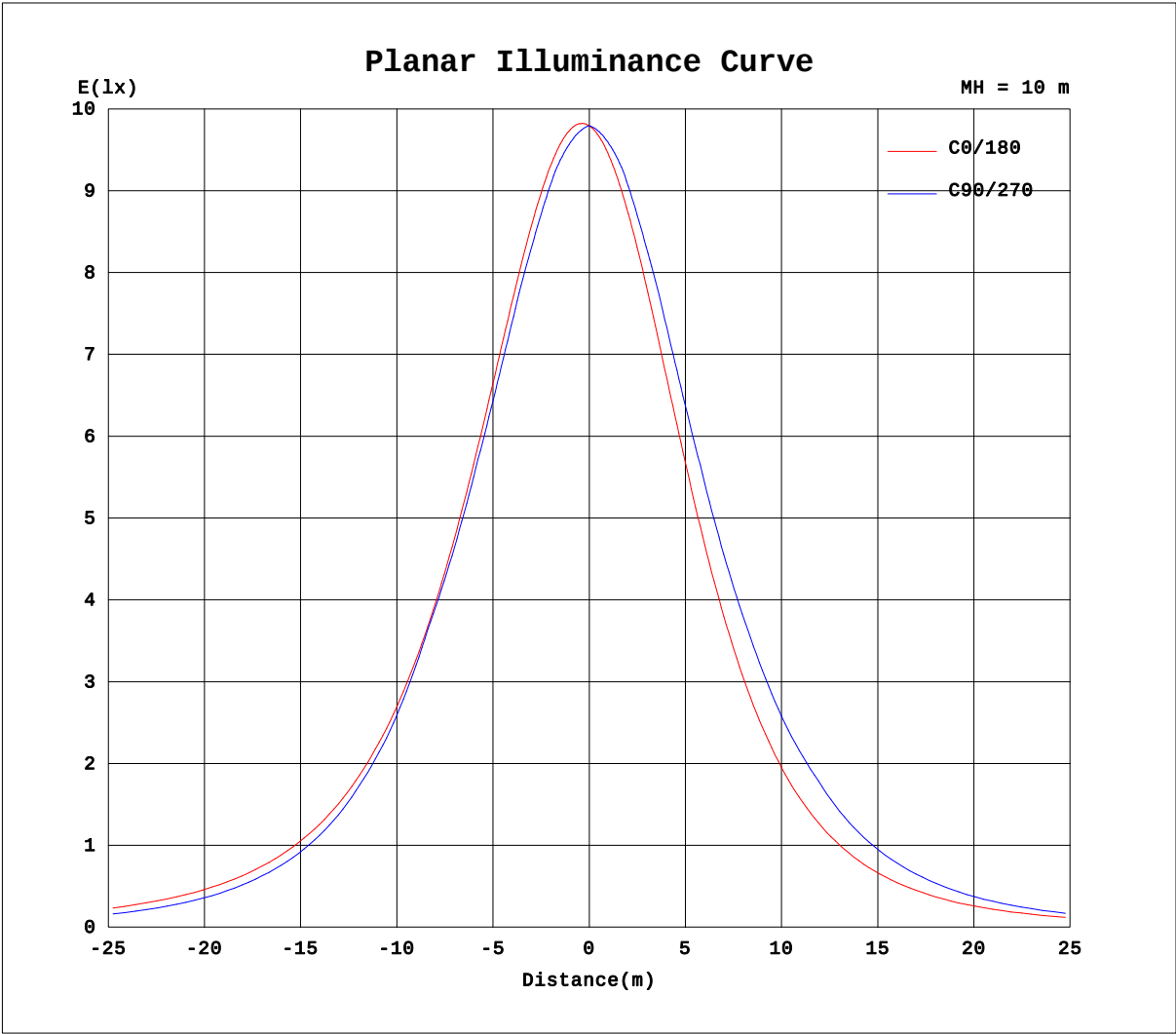
Test:U:220.5V I:0.2145A P:29.12W PF:1.000 Freq:50.00Hz Lamp Flux:3029.16x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411078
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-25

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

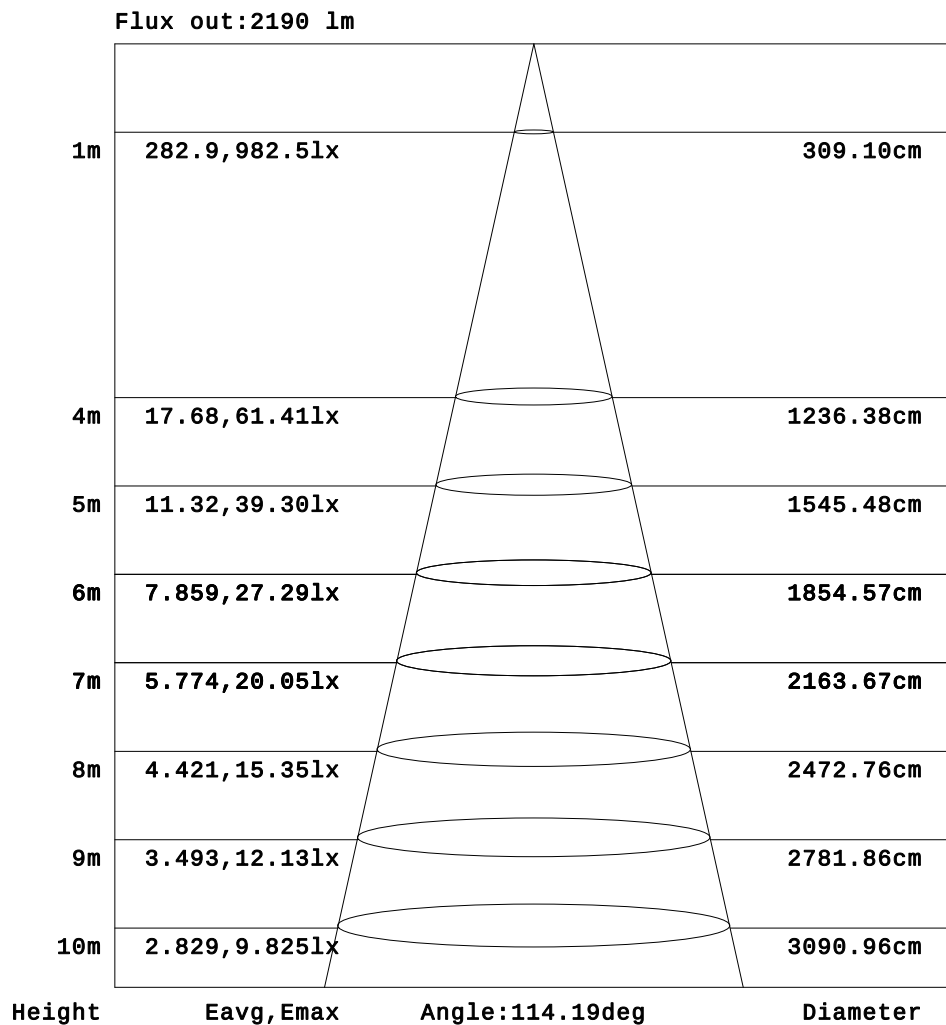


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-25

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:220.5V I:0.2145A P:29.12W PF:1.000 Freq:50.00Hz Lamp Flux:3029.16x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411078
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:2024-11-25

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:220.5V I:0.2145A P:29.12W PF:1.000 Freq:50.00Hz Lamp Flux:3029.16x1 lm		
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411078
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	31.2	32.8	33.5	33.8	39.7	41.8	51.3	60.9	69.4	76.2	75.7	73.8	71.9	69.9	68.3	68.1	71.0	78.4	88.7
-75	30.9	32.6	37.0	42.4	47.0	52.1	64.9	80.5	97.3	113	118	123	128	133	139	146	156	167	180
-70	29.4	33.9	44.0	52.0	57.1	65.7	84.5	107	132	153	163	173	185	198	212	228	245	261	276
-65	31.1	38.0	46.6	56.0	63.5	76.9	101	130	163	195	215	234	254	276	297	318	339	358	374
-60	31.0	45.0	54.4	63.0	72.8	96.9	129	167	210	247	274	303	333	363	391	417	441	461	477
-55	31.9	43.1	54.4	64.0	79.3	108	146	192	241	282	321	359	399	436	468	499	525	547	565
-50	30.0	45.7	57.9	70.6	94.2	132	180	237	290	332	383	433	481	522	559	592	619	641	658
-45	29.8	40.1	54.2	70.1	99.8	143	198	258	314	363	416	470	524	573	617	656	687	713	732
-40	25.4	37.8	56.4	79.2	121	175	242	295	357	413	470	530	587	642	691	734	767	794	812
-35	23.2	34.1	52.3	81.6	128	192	255	314	373	432	492	554	613	668	718	761	796	825	844
-30	14.9	34.6	59.5	98.7	159	232	293	350	412	475	538	601	661	715	764	804	838	865	882
-25	14.3	30.5	58.2	109	169	235	294	357	421	486	551	616	677	733	782	824	860	888	907
-20	11.8	35.8	75.5	144	204	260	320	388	455	523	590	656	716	770	818	860	894	919	936
-15	3.97	34.1	84.6	139	200	256	317	385	453	522	591	657	719	776	825	868	904	931	950
-10	5.74	51.4	114	160	217	276	341	408	478	549	619	685	746	802	851	893	927	952	969
-5	5.03	52.7	107	153	207	266	331	399	469	540	611	679	741	798	849	892	927	954	972
0	33.4	75.1	117	165	219	280	348	417	488	560	631	698	760	816	865	906	939	964	981
5	23.1	67.4	108	154	207	266	332	399	470	541	612	680	743	800	850	892	927	954	972
10	41.9	75.5	116	163	218	277	342	410	480	551	622	688	749	805	853	894	927	952	969
15	33.7	67.2	106	150	201	258	320	387	455	525	594	660	722	777	827	869	903	930	948
20	41.6	73.6	112	156	207	263	325	391	458	526	593	658	717	771	818	859	891	916	932
25	34.3	65.2	100	141	189	241	299	361	424	489	554	617	677	731	779	821	854	881	899
30	41.4	69.5	104	144	191	242	297	356	416	478	541	602	659	712	758	797	830	854	871
35	35.9	62.3	93.2	129	171	217	267	321	378	435	494	553	610	662	709	749	783	809	827
40	41.6	65.8	95.6	129	168	212	259	308	362	416	472	528	582	632	677	716	747	772	789
45	36.7	58.7	84.6	114	148	186	228	271	318	366	416	468	519	568	613	652	685	710	729
50	40.8	60.8	84.7	111	142	178	215	253	293	336	381	428	477	524	567	603	633	657	675
55	36.3	54.6	74.3	97.2	123	152	184	215	249	284	322	361	401	440	477	510	539	563	581
60	39.9	55.8	73.0	92.7	114	139	165	191	218	248	278	308	341	371	402	430	455	476	494
65	36.1	50.2	63.8	79.5	96.8	116	137	157	177	197	218	240	262	284	307	330	352	373	390
70	39.4	49.9	61.0	73.3	86.4	101	117	131	144	156	167	180	192	206	222	240	258	276	292
75	37.1	45.9	53.7	62.1	71.5	81.2	92.3	102	109	115	120	126	131	137	144	153	164	177	191
80	39.5	44.8	49.7	55.0	60.3	65.7	72.3	76.6	77.1	76.7	75.5	73.8	71.9	70.0	68.8	69.5	73.7	82.6	94.4
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:2024-11-25

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:220.5V I:0.2145A P:29.12W PF:1.000 Freq:50.00Hz Lamp Flux:3029.16x1 lm																	
NAME: 8.02.038.0039 LLS-WZB-W40-L12-S									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:202411078		
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:						Shielding Angle:		

Table--2																		UNIT: cd	
H(DEG) V(DEG)	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	101	115	129	143	158	173	186	198	208	210	199	195	184	177	163	158	155	152	
-75	193	205	216	227	236	245	252	257	261	262	241	226	212	203	183	171	160	152	
-70	289	300	308	314	318	320	320	319	316	309	275	251	238	224	196	181	162	148	
-65	387	397	403	406	406	403	397	389	378	361	327	284	262	244	218	192	171	151	
-60	489	497	500	499	493	484	471	455	434	405	361	305	279	256	230	194	172	146	
-55	577	584	587	584	576	563	544	518	488	453	413	353	302	272	243	209	177	150	
-50	669	674	673	667	655	636	608	569	528	486	445	377	310	277	245	210	171	145	
-45	744	748	745	734	716	691	659	620	576	531	485	429	355	293	256	220	177	147	
-40	821	822	813	795	769	735	696	654	607	557	506	455	371	293	253	215	168	137	
-35	855	857	851	835	811	779	741	698	650	598	544	489	421	340	268	220	178	138	
-30	892	892	883	867	841	808	769	724	673	618	561	501	442	357	258	210	168	127	
-25	917	919	912	896	873	842	803	758	707	651	592	530	468	397	313	230	167	122	
-20	944	944	935	918	893	861	820	773	719	661	599	534	468	404	332	222	149	105	
-15	960	961	955	939	915	884	845	798	746	688	625	559	491	424	358	270	184	98.0	
-10	977	977	969	952	926	893	852	804	750	690	625	556	487	418	352	285	187	52.4	
-5	982	984	976	961	937	905	865	819	765	706	641	573	503	433	366	299	226	134	
0	989	989	979	962	936	902	861	813	757	697	631	561	490	420	352	288	227	171	
5	982	984	977	961	937	905	866	819	766	706	641	573	503	433	365	300	238	181	
10	978	978	969	952	927	894	853	805	751	690	625	556	487	418	351	286	226	170	
15	958	960	953	938	915	884	845	800	747	689	626	559	492	424	359	295	236	181	
20	941	941	933	917	892	860	821	774	721	663	601	535	469	404	341	280	223	171	
25	910	912	906	892	870	840	804	761	711	656	597	534	471	408	347	288	233	181	
30	881	882	875	859	837	807	771	728	680	626	568	508	448	388	330	274	221	172	
35	838	841	836	823	804	777	743	703	657	607	553	497	441	385	330	278	228	181	
40	799	800	793	781	761	734	700	660	616	567	516	464	412	360	309	261	215	173	
45	741	746	743	734	716	692	661	625	584	540	494	448	401	353	307	262	220	180	
50	687	692	690	681	663	638	608	573	535	495	454	413	370	328	286	246	209	173	
55	595	602	605	601	591	575	554	526	494	460	426	390	354	316	279	244	211	179	
60	507	515	519	518	513	504	490	467	440	411	383	354	322	290	258	229	200	173	
65	404	415	422	426	426	423	417	405	391	371	350	327	302	275	249	224	200	177	
70	306	318	327	334	338	340	340	338	334	322	308	291	271	250	230	210	191	173	
75	204	218	230	242	252	260	267	273	277	275	270	261	247	232	217	203	189	175	
80	108	123	138	154	169	184	198	209	219	227	230	225	216	208	199	191	181	172	
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:2024-11-25

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: