

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	358.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	154.4V x 161.0H
	At 50% of Imax	111.4V x 107.6H
	At 90% of Imax	55.6V x 46.4H

Beam Flux	Total	997.5 lumens per klm.
	To 10% of Imax	983.8 lumens per klm.
	To 50% of Imax	739.2 lumens per klm.
	To 90% of Imax	205.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

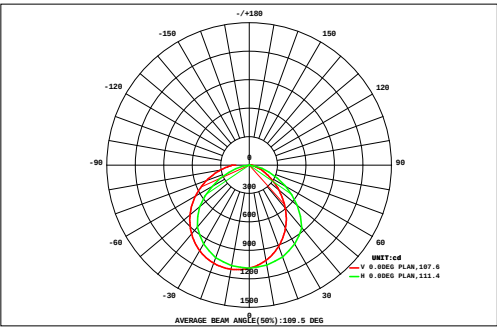
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-28

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:221.2V I:0.2140A P:28.76W PF:1.000 Freq:50.00Hz Lamp Flux:3113.39x1 lm		
NAME: 8.02.003.0446 LLS-COVE1-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:108.27lm/W	
MODELS-COVE1-W40-L12-DIM	Imax(cd)	1115	
NOMINAL POWER(W)	29	AVAILABILITY(%)	98.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	3077
NOMINAL FLUX(lm)	3113.39	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3113
TEST VOLTAGE(V)	220	θ @50%(H,V)	108,111DEG

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	0.03	0.18	0.45	0.86	1.31	1.80	2.33	2.96	3.84	5.04	6.32	7.28	7.59	7.10	5.79	3.88	2.09	0.62	59.4	51.0
70	0.04	0.24	0.69	1.51	2.71	4.21	5.90	7.72	9.44	10.9	11.7	11.7	10.8	9.02	6.60	4.11	2.02	0.54	99.8	96.7
60	0.05	0.32	1.03	2.38	4.50	7.31	10.5	13.6	16.2	18.0	18.4	17.4	15.1	11.8	8.23	4.95	2.31	0.58	153	151
50	0.06	0.42	1.38	3.29	6.30	10.3	14.9	19.2	22.5	24.3	24.2	22.3	18.6	14.2	9.75	5.72	2.57	0.61	201	200
40	0.07	0.50	1.73	4.17	7.98	12.9	18.3	23.2	26.7	28.4	27.9	25.4	21.3	16.2	11.0	6.37	2.81	0.64	235	235
30	0.07	0.58	2.02	4.90	9.36	15.0	20.8	25.9	29.4	31.0	30.4	27.6	23.2	17.7	12.0	6.88	2.99	0.66	260	260
20	0.08	0.63	2.23	5.41	10.3	16.3	22.4	27.6	31.2	32.7	31.9	29.0	24.3	18.6	12.6	7.20	3.10	0.68	276	276
10	0.08	0.65	2.33	5.66	10.7	16.9	23.1	28.4	31.9	33.4	32.6	29.6	24.9	19.0	12.9	7.39	3.17	0.68	284	283
0	0.07	0.65	2.34	5.66	10.7	16.9	23.1	28.3	31.9	33.3	32.5	29.5	24.8	19.0	12.9	7.35	3.16	0.66	283	282
-10	0.04	0.60	2.24	5.41	10.3	16.2	22.3	27.4	31.0	32.4	31.6	28.7	24.1	18.4	12.5	7.13	3.03	0.55	274	273
-20	0.02	0.46	1.99	4.88	9.33	14.9	20.7	25.7	29.3	30.8	30.1	27.3	22.8	17.3	11.7	6.70	2.64	0.46	257	256
-30	0.03	0.30	1.57	4.11	7.90	12.8	18.2	23.1	26.7	28.4	27.8	25.0	20.8	15.8	10.7	5.99	2.23	0.51	232	231
-40	0.03	0.22	1.09	3.19	6.26	10.4	15.0	19.3	22.5	24.2	23.9	21.7	18.1	13.7	9.32	4.92	2.12	0.50	196	195
-50	0.03	0.15	0.68	2.20	4.52	7.43	10.6	13.6	16.0	17.4	17.8	16.9	14.7	11.4	7.71	4.12	1.97	0.47	148	146
-60	0.03	0.13	0.36	1.24	2.81	4.34	5.99	7.74	9.32	10.6	11.2	11.1	10.2	8.57	5.88	3.46	1.71	0.44	95.2	92.9
-70	0.02	0.11	0.23	0.45	1.25	1.74	2.35	2.96	3.68	4.56	5.44	6.04	6.14	5.65	4.18	2.71	1.38	0.40	49.3	40.7
-80	0.01	0.03	0.06	0.15	0.16	0.10	0.14	0.18	0.25	0.49	0.95	1.45	1.79	1.87	1.52	1.03	0.57	0.19	10.9	7.70
-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	0.77	6.17	22.4	55.5	106	170	237	297	342	366	365	338	289	225	155	89.9	39.9	9.20	3113	---
Φ a	0.00	0.35	16.4	50.7	102	166	234	294	339	364	364	337	289	225	155	89.9	39.9	9.19	---	3077

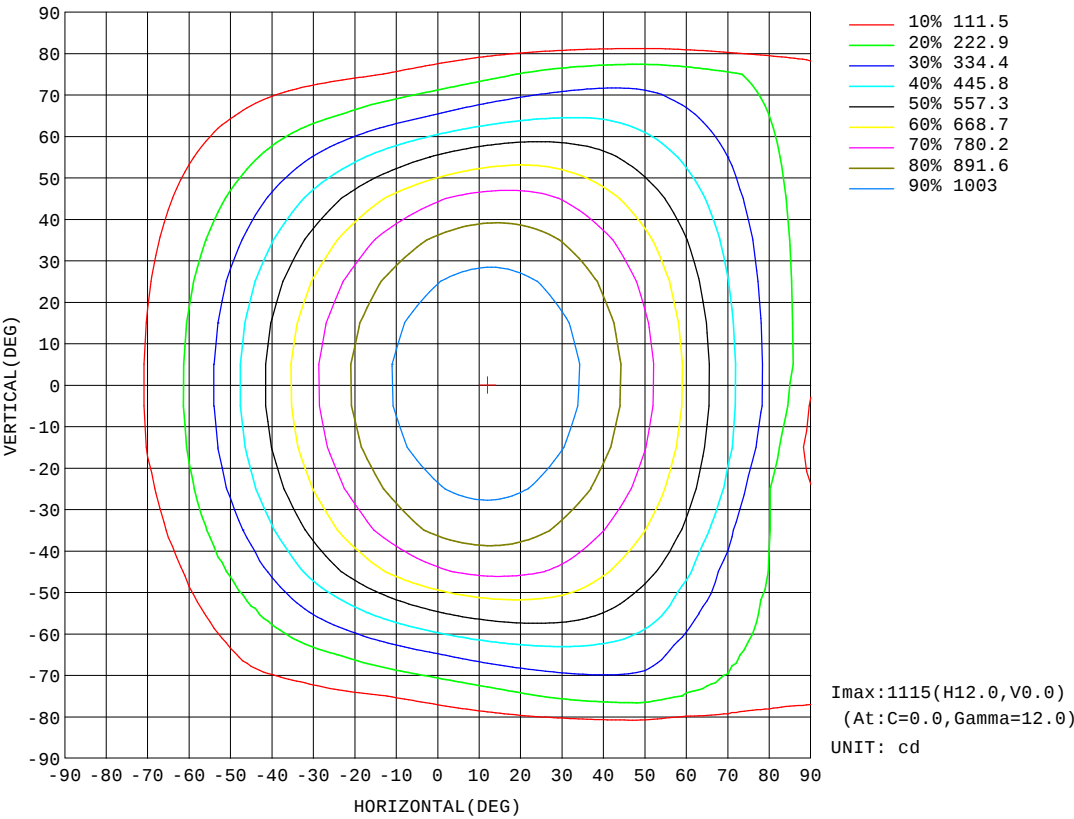
one-half-peak spread: U:55.5,D:56.3 , L:54.2,R:54.0 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-28

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:221.2V I:0.2140A P:28.76W PF:1.000 Freq:50.00Hz Lamp Flux:3113.39x1 lm		
NAME: 8.02.003.0446 LLS-COVE1-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

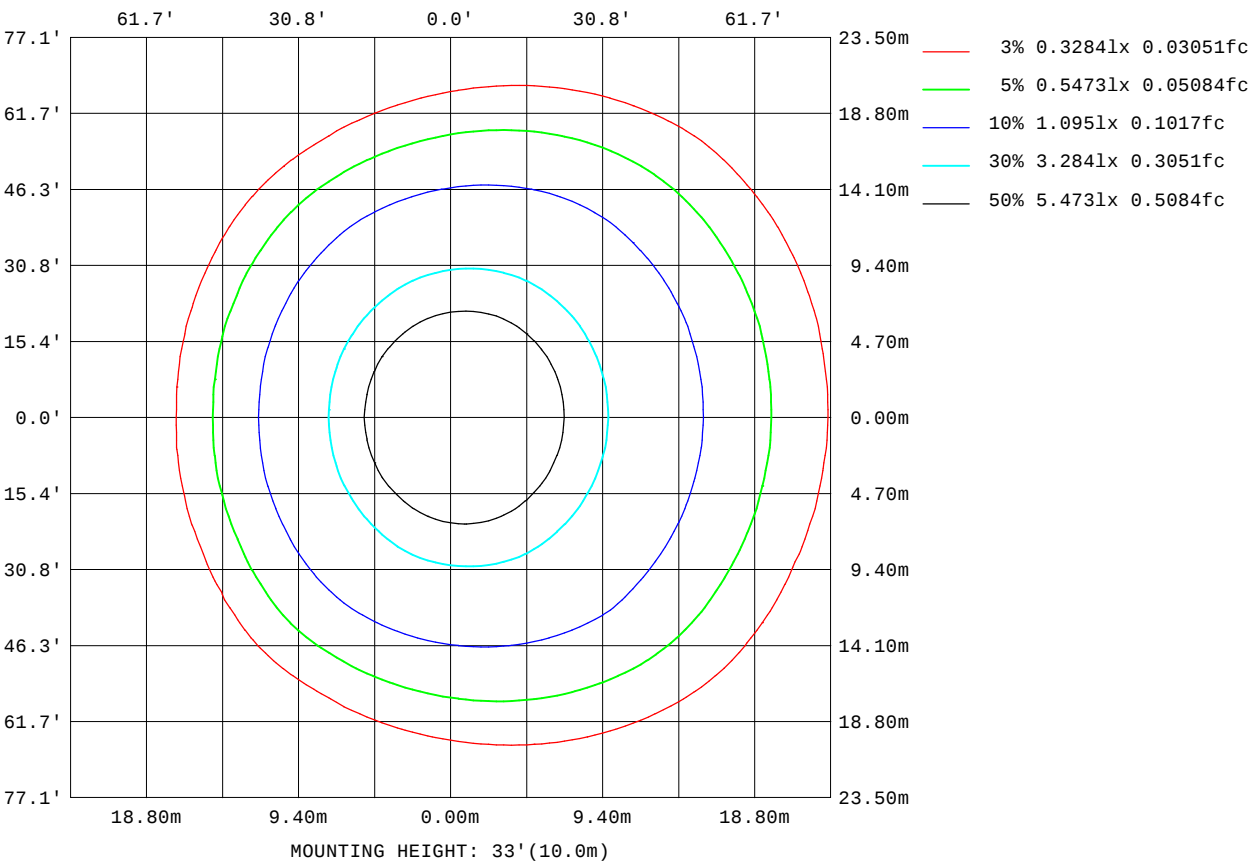


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-28

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

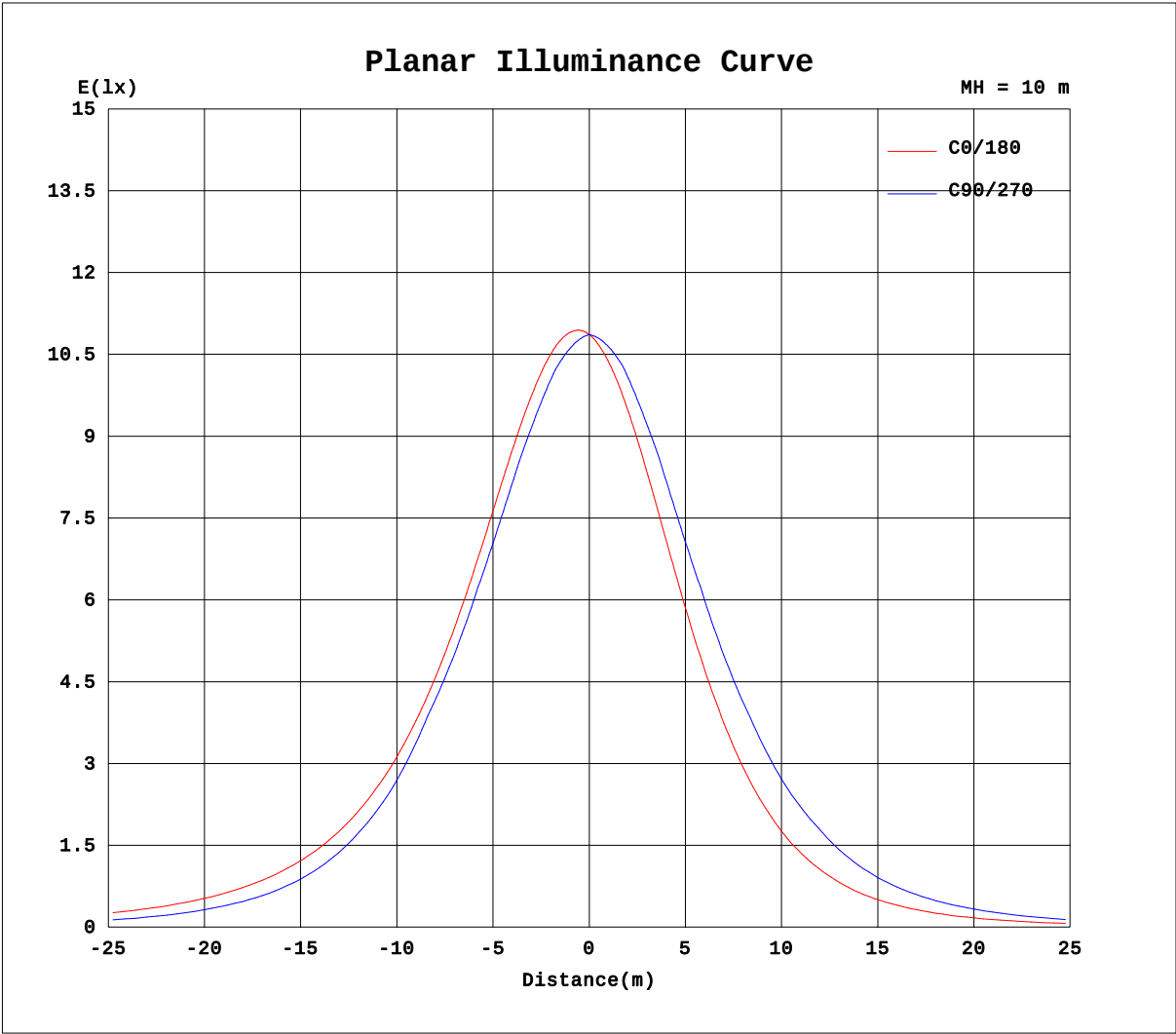
Test:U:221.2V I:0.2140A P:28.76W PF:1.000 Freq:50.00Hz Lamp Flux:3113.39x1 lm		
NAME: 8.02.003.0446 LLS-COVE1-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-28

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

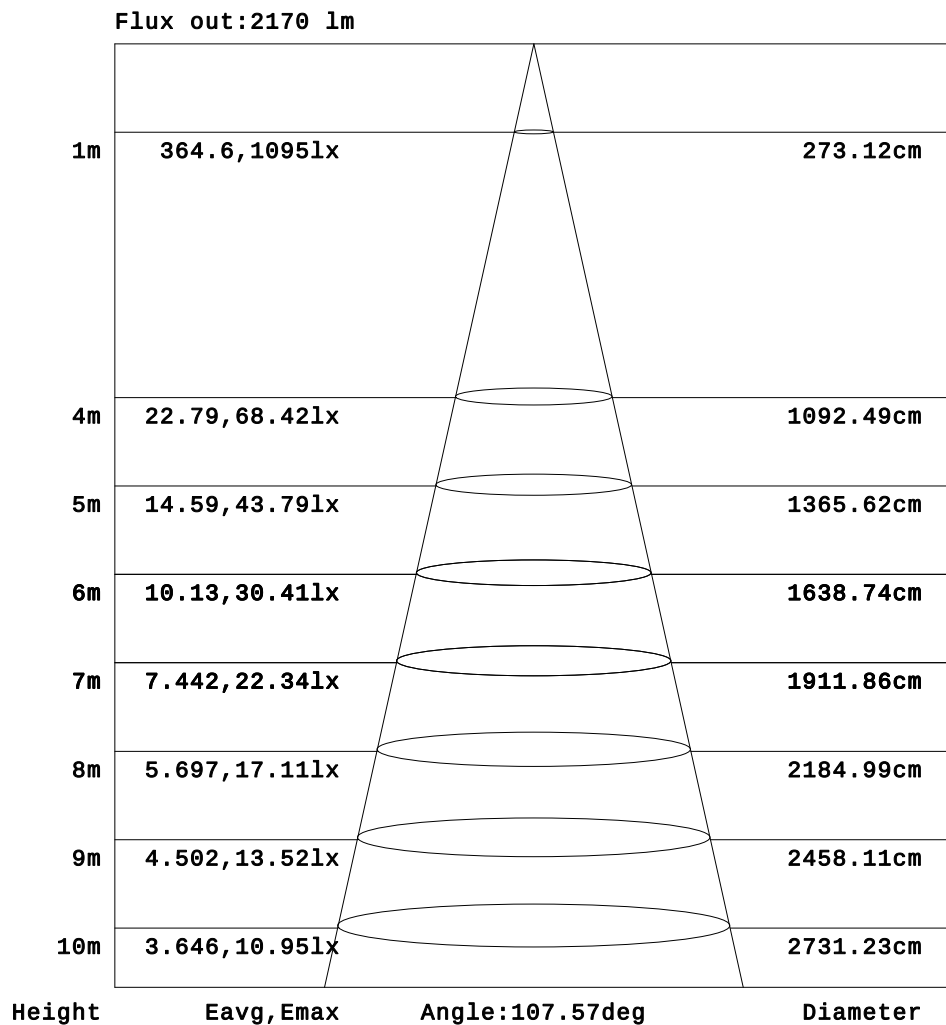


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-28

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:221.2V I:0.2140A P:28.76W PF:1.000 Freq:50.00Hz Lamp Flux:3113.39x1 lm		
NAME: 8.02.003.0446 LLS-COVE1-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120105
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:2024-12-28

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:221.2V I:0.2140A P:28.76W PF:1.000 Freq:50.00Hz Lamp Flux:3113.39x1 lm		
NAME: 8.02.003.0446 LLS-COVE1-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120105
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	6.02	8.15	8.50	9.87	10.7	11.4	16.2	21.7	26.3	31.0	29.5	26.3	27.4	35.3	37.7	39.7	43.5	49.9	59.7
-75	6.00	8.64	10.2	12.7	14.8	17.5	21.5	29.3	46.0	61.8	66.9	72.5	79.8	90.4	98.5	107	116	128	141
-70	5.98	9.13	11.8	15.5	18.8	23.6	26.8	36.9	65.7	92.6	104	119	132	146	159	174	189	205	223
-65	5.59	9.41	13.2	17.2	17.7	28.4	46.7	67.3	101	132	153	176	198	220	242	266	288	309	330
-60	5.21	9.69	14.6	18.9	16.6	33.2	66.5	97.6	136	171	202	232	264	294	325	357	386	413	438
-55	4.96	9.33	14.5	17.6	27.9	50.0	84.1	123	168	210	251	295	340	381	419	458	493	524	551
-50	4.72	8.96	14.4	16.3	39.2	66.8	102	148	200	250	299	358	416	467	514	559	599	635	663
-45	2.36	8.63	15.7	22.7	47.7	81.3	127	178	231	287	348	413	477	538	594	647	693	732	764
-40	0.00	8.31	16.9	29.0	56.2	95.9	153	208	261	324	397	467	538	608	674	735	786	830	864
-35	0.00	7.11	16.7	34.1	66.6	118	174	232	291	361	437	512	586	658	725	785	835	880	912
-30	0.00	5.90	16.6	39.2	76.9	140	196	256	321	398	477	556	634	708	775	834	885	929	961
-25	0.00	5.28	19.5	51.5	94.9	150	209	274	347	428	510	592	671	745	813	871	922	965	995
-20	0.00	4.66	22.4	63.8	113	161	222	292	373	457	543	628	709	783	850	909	959	1000	1030
-15	0.00	6.57	33.5	69.6	116	168	231	303	386	472	560	647	729	804	872	931	981	1021	1050
-10	0.00	8.48	44.7	75.3	119	175	240	315	399	487	578	665	749	825	894	953	1002	1042	1070
-5	0.00	15.9	45.5	76.8	120	176	242	317	403	493	585	674	757	834	902	961	1010	1050	1079
0	0.00	23.2	46.3	78.3	121	177	243	320	408	500	592	682	766	843	911	970	1019	1058	1087
5	1.18	23.4	45.8	77.2	120	175	241	317	403	494	586	675	759	836	904	963	1012	1052	1081
10	2.36	23.5	45.3	76.1	118	173	239	314	399	487	580	668	752	828	897	956	1006	1046	1076
15	3.32	23.0	44.4	74.3	115	167	231	303	386	473	562	650	733	808	876	936	986	1026	1056
20	4.29	22.5	43.4	72.4	111	162	223	292	373	458	545	631	713	788	856	916	966	1007	1037
25	4.43	21.6	41.3	68.4	105	151	210	275	350	430	513	596	676	750	817	877	927	969	1000
30	4.56	20.8	39.1	64.4	98.0	141	197	258	327	402	482	561	638	711	779	839	889	931	962
35	4.72	19.8	36.7	59.8	90.3	130	179	235	297	367	441	515	589	659	724	783	834	876	908
40	4.89	18.9	34.3	55.1	82.7	118	162	211	268	331	399	469	539	606	670	728	779	820	853
45	4.94	17.7	31.5	49.8	73.8	105	142	185	236	290	350	412	475	537	595	649	696	737	769
50	5.00	16.6	28.7	44.4	64.9	91.0	123	160	203	250	301	355	412	468	520	569	614	653	685
55	4.95	15.6	25.9	39.1	56.2	78.0	105	135	170	208	250	293	338	382	425	466	504	538	569
60	4.91	14.6	23.0	33.9	47.6	65.0	86.3	110	137	167	199	231	263	296	329	363	394	424	452
65	4.88	12.5	20.1	28.8	39.4	52.8	69.1	86.9	107	128	150	173	196	219	244	269	294	318	342
70	4.84	10.5	17.2	23.7	31.3	40.5	51.9	64.2	76.6	88.7	102	115	129	143	158	176	193	212	232
75	4.93	9.61	14.5	19.4	24.7	31.1	38.7	46.5	53.5	60.2	67.0	74.0	81.2	88.9	97.3	108	119	133	149
80	5.02	8.75	11.7	15.1	18.1	21.6	25.4	28.8	30.4	31.6	32.5	33.2	33.9	34.9	36.6	39.7	44.8	53.1	65.1
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:2024-12-28

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:221.2V I:0.2140A P:28.76W PF:1.000 Freq:50.00Hz Lamp Flux:3113.39x1 lm		
NAME: 8.02.003.0446 LLS-COVE1-W40-L12-DIM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120105
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	72.9	89.0	107	126	145	164	180	194	205	207	194	179	179	164	153	148	144	141
-75	157	174	191	209	225	239	251	260	266	264	239	218	210	195	172	162	147	140
-70	241	259	276	291	304	315	322	326	326	321	283	256	240	227	192	176	150	139
-65	350	368	384	396	405	409	410	406	397	378	336	290	265	247	212	182	158	140
-60	459	478	492	501	505	504	497	486	467	436	388	325	290	267	233	189	165	140
-55	573	590	602	608	607	600	583	557	526	488	441	372	317	282	245	201	168	140
-50	686	703	712	715	709	696	668	627	585	541	494	419	343	297	258	212	172	141
-45	786	799	803	797	783	760	725	682	635	586	533	465	377	310	267	220	172	138
-40	886	896	894	880	856	823	783	737	686	631	572	512	412	322	276	228	171	136
-35	934	944	942	929	905	871	830	782	729	670	607	542	456	359	276	225	172	131
-30	982	992	991	978	954	920	877	828	772	709	642	572	500	397	276	222	172	125
-25	1015	1025	1023	1011	987	953	911	860	801	737	667	593	517	424	317	227	162	115
-20	1048	1058	1056	1043	1020	987	944	892	831	765	691	614	534	452	358	232	152	105
-15	1069	1077	1076	1063	1040	1007	964	912	852	784	709	630	548	464	373	268	170	80.8
-10	1089	1097	1095	1084	1060	1027	984	932	872	803	728	646	561	475	389	304	189	56.9
-5	1097	1106	1104	1092	1069	1035	992	940	878	809	733	651	565	478	390	306	211	100
0	1105	1114	1112	1100	1077	1043	1000	947	885	815	738	656	569	480	392	308	233	144
5	1100	1109	1107	1095	1072	1039	996	943	881	812	735	654	567	479	391	307	233	153
10	1095	1104	1103	1091	1068	1035	992	939	878	808	733	651	565	477	391	305	232	162
15	1076	1085	1084	1072	1050	1017	974	921	861	793	718	638	554	469	384	303	231	162
20	1057	1067	1066	1053	1031	998	955	903	843	777	704	625	543	460	378	300	230	163
25	1021	1032	1032	1020	998	967	926	875	817	753	682	607	529	449	370	294	228	163
30	985	997	998	986	966	935	896	847	792	729	661	589	514	438	363	289	225	163
35	931	943	944	936	917	888	850	804	751	692	628	561	491	419	349	282	222	164
40	876	889	891	885	868	840	804	760	709	654	594	532	467	401	335	274	219	164
45	794	810	816	814	801	776	743	703	658	608	555	499	440	380	319	264	214	164
50	712	730	741	743	733	712	682	647	607	563	516	466	414	359	303	254	209	164
55	595	615	628	635	632	621	604	579	546	509	470	428	382	334	287	244	205	163
60	478	499	515	526	532	531	525	511	485	456	424	389	351	310	271	234	201	163
65	366	387	405	419	430	436	437	432	420	402	377	349	318	284	253	223	195	163
70	254	275	295	313	328	340	349	354	354	348	331	310	285	259	235	212	190	163
75	167	187	207	227	245	261	274	284	290	291	285	271	253	235	217	200	184	162
80	80.9	99.4	120	141	162	182	199	214	226	235	239	232	221	211	200	189	178	162
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:2024-12-28

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: