

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	371.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	149.6V x 156.0H
	At 50% of Imax	107.4V x 107.5H
	At 90% of Imax	55.6V x 55.6H

Beam Flux	Total	998.5 lumens per klm.
	To 10% of Imax	977.3 lumens per klm.
	To 50% of Imax	754.3 lumens per klm.
	To 90% of Imax	257.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

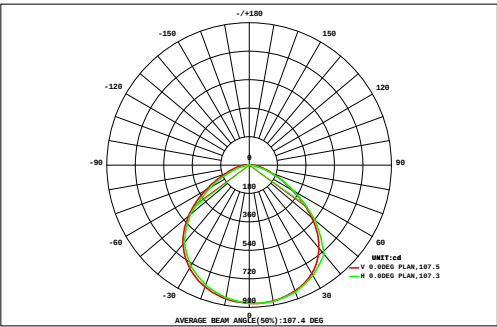
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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:24.00V I:1.325A P:31.79W PF:1.000 Freq:0Hz Lamp Flux:2358.73x1 lm		
NAME: 8.02.003.0443 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411024
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:74.19lm/W	
MODEL	LLS-COVE1-W40-30W-24V-001	Imax(cd)	877.2
NOMINAL POWER(W)	31	AVAILABILITY(%)	97.9
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	2309
NOMINAL FLUX(lm)	2358.73	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2359
TEST VOLTAGE(V)	24	θ @50%(H,V)	107,107DEG

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	0.07	0.30	0.67	1.14	1.54	1.85	2.08	2.21	2.28	2.34	2.37	2.31	2.11	1.77	1.33	0.81	0.39	0.10	25.6	10.8
70	0.07	0.37	0.93	1.78	2.78	3.83	4.80	5.56	6.00	6.05	5.70	5.01	4.07	2.98	1.91	1.05	0.44	0.10	53.4	50.6
60	0.09	0.49	1.31	2.65	4.49	6.66	8.80	10.5	11.4	11.4	10.6	9.06	6.97	4.70	2.78	1.42	0.55	0.11	93.9	92.5
50	0.10	0.59	1.71	3.66	6.55	10.0	13.4	15.9	17.2	17.2	15.9	13.6	10.3	6.83	3.87	1.82	0.67	0.13	139	138
40	0.11	0.70	2.11	4.77	8.79	13.3	17.1	19.7	21.0	21.0	19.6	16.9	13.2	9.02	5.03	2.25	0.78	0.14	176	175
30	0.12	0.79	2.49	5.84	10.7	15.8	19.9	22.4	23.5	23.5	22.2	19.4	15.5	10.7	6.09	2.66	0.87	0.15	203	202
20	0.12	0.86	2.78	6.67	12.2	17.5	21.6	24.1	25.2	25.1	23.8	21.0	17.0	12.0	6.89	2.97	0.93	0.15	221	220
10	0.12	0.87	2.91	7.07	12.8	18.3	22.4	25.0	26.2	26.1	24.6	21.7	17.7	12.6	7.34	3.16	0.98	0.16	230	230
0	0.11	0.87	2.91	7.12	12.9	18.5	22.7	25.4	26.6	26.4	24.8	21.9	17.8	12.7	7.40	3.19	0.98	0.15	232	232
-10	0.08	0.80	2.78	6.76	12.4	17.9	22.3	25.1	26.3	26.1	24.5	21.5	17.4	12.3	7.08	3.03	0.94	0.12	227	227
-20	0.05	0.64	2.46	5.97	11.1	16.7	21.1	23.9	25.3	25.1	23.5	20.4	16.3	11.3	6.30	2.71	0.79	0.09	214	213
-30	0.05	0.46	1.94	4.90	9.30	14.6	19.0	22.0	23.4	23.2	21.6	18.5	14.6	9.79	5.36	2.26	0.62	0.11	192	191
-40	0.06	0.37	1.38	3.74	7.08	11.4	15.4	18.4	19.8	19.7	18.1	15.2	11.6	7.52	4.19	1.73	0.58	0.11	156	155
-50	0.06	0.31	0.99	2.55	4.91	7.76	10.4	12.3	13.2	13.2	12.3	10.5	8.10	5.31	2.97	1.30	0.52	0.10	107	105
-60	0.05	0.26	0.66	1.62	3.08	4.33	5.50	6.41	6.91	6.96	6.54	5.68	4.54	3.33	1.96	0.99	0.41	0.08	59.3	56.3
-70	0.04	0.18	0.40	0.88	1.54	1.94	2.25	2.44	2.53	2.57	2.54	2.41	2.14	1.76	1.17	0.66	0.30	0.07	25.8	10.6
-80	0.02	0.05	0.11	0.22	0.30	0.29	0.23	0.18	0.16	0.18	0.24	0.32	0.40	0.41	0.31	0.20	0.10	0.03	3.75	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	0.00
Φ t	1.31	8.90	28.6	67.3	122	181	229	262	277	276	259	226	180	125	72.0	32.2	10.8	1.91	2359	---
Φ a	0.00	4.41	24.6	64.3	120	178	226	259	274	274	257	223	177	123	69.3	28.7	6.26	0.00	---	2309

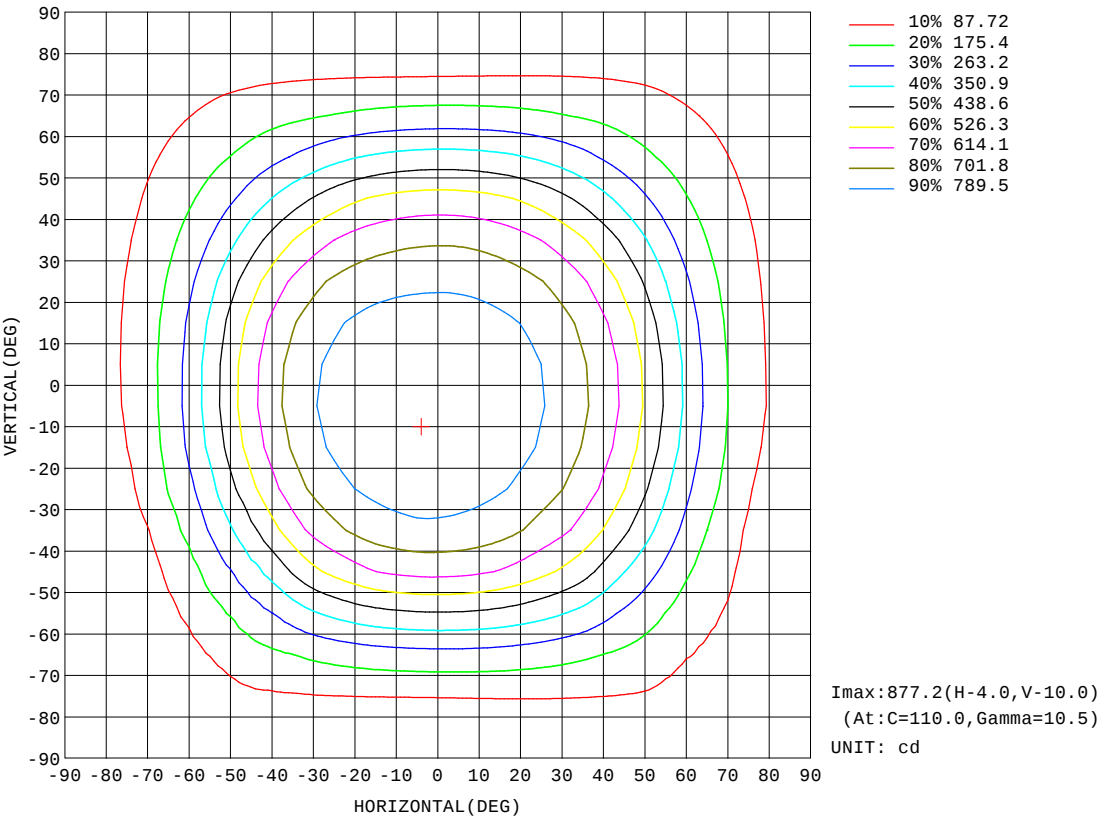
one-half-peak spread: U:45.0,D:62.7 , L:50.1,R:57.8 NEMA Beam Type: Type 7

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

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:24.00V I:1.325A P:31.79W PF:1.000 Freq:0Hz Lamp Flux:2358.73x1 lm		
NAME: 8.02.003.0443 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411024
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

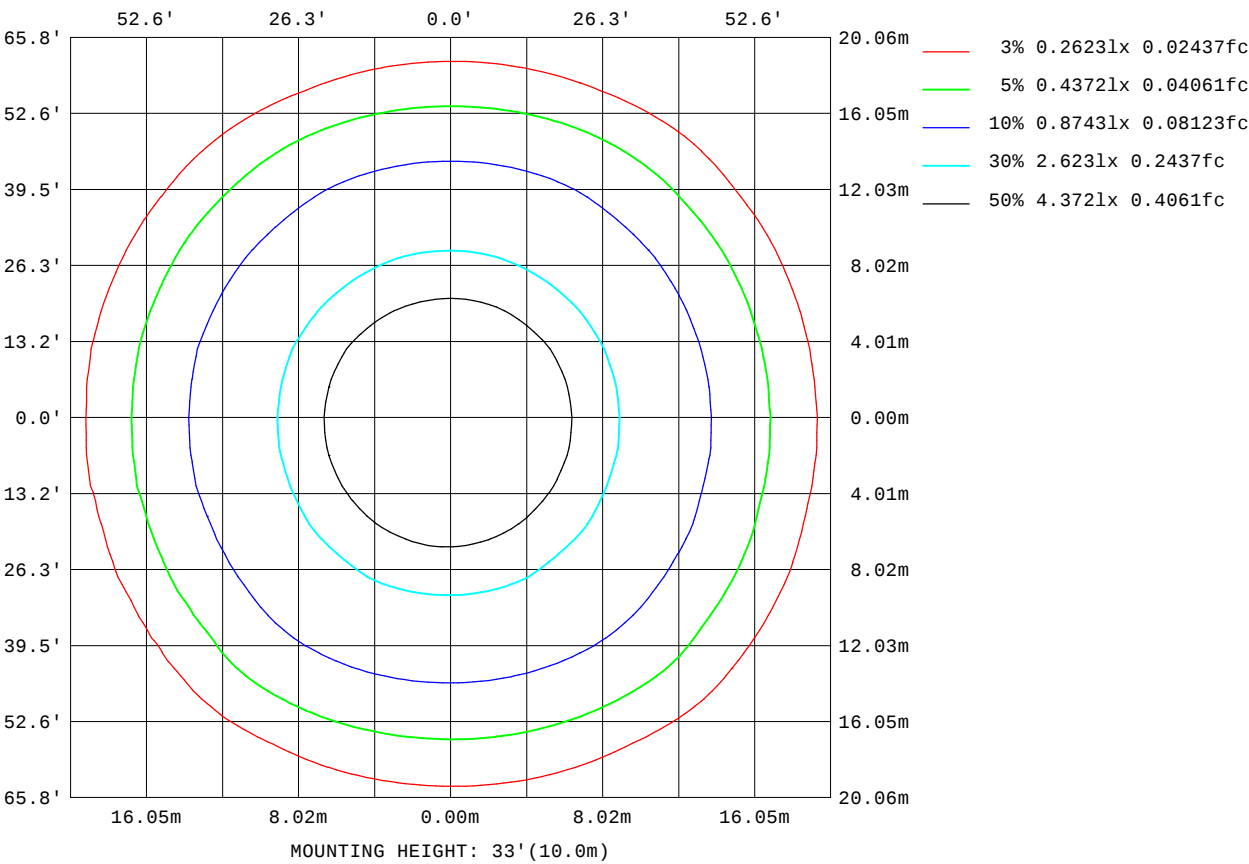


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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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

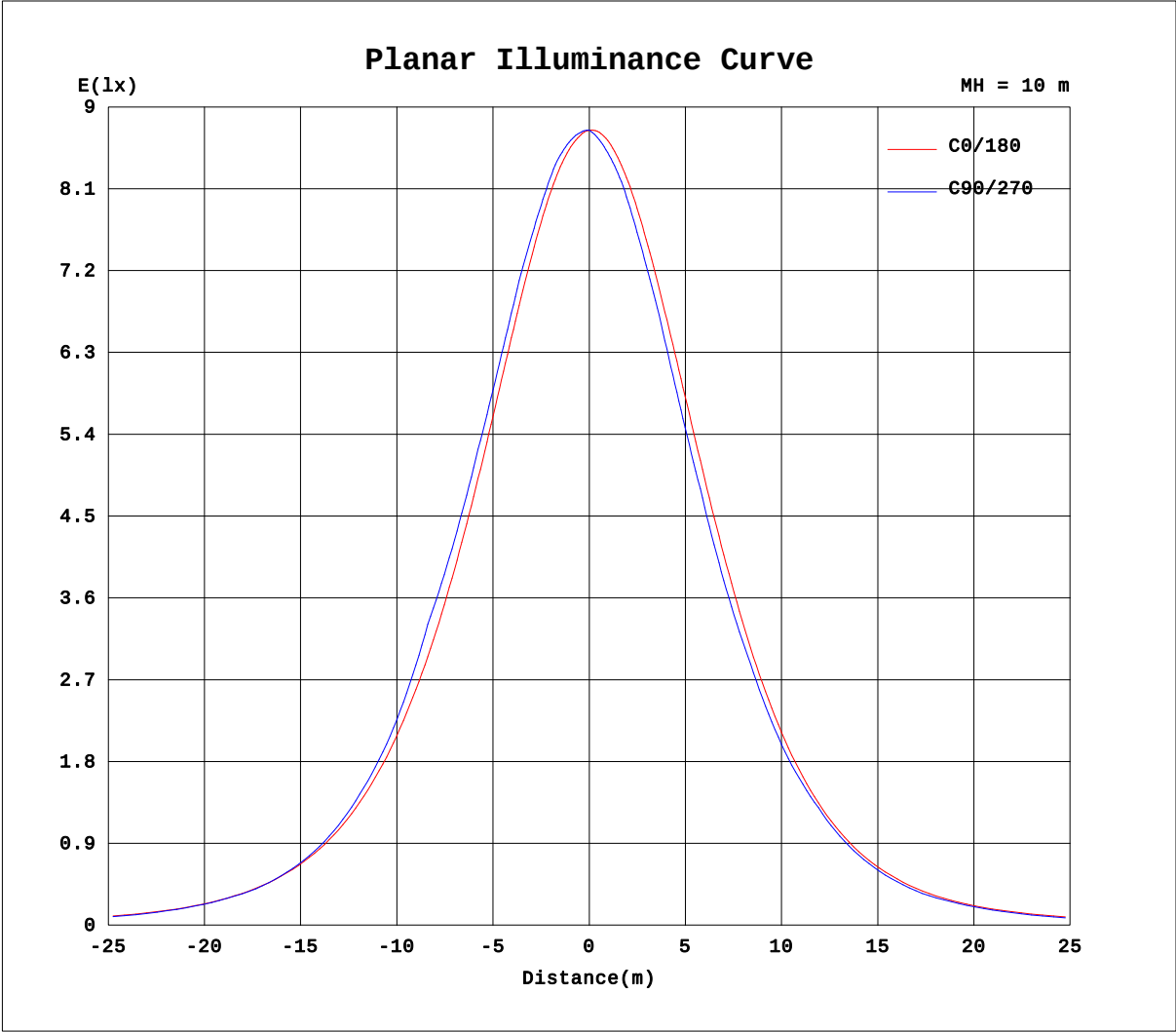
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SPEC.:	DIM.:	SERIAL No.:202411024
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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

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:

Planar Illuminance Curve

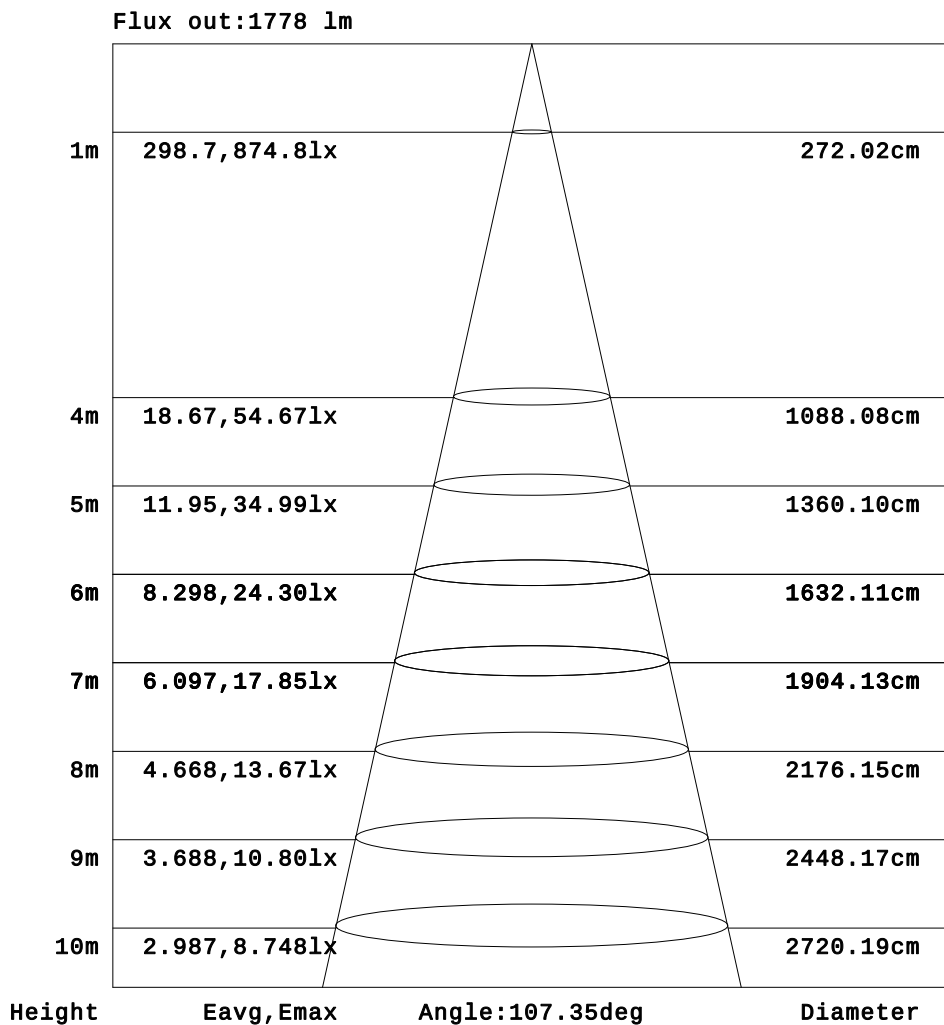


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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:24.00V I:1.325A P:31.79W PF:1.000 Freq:0Hz Lamp Flux:2358.73x1 lm		
NAME: 8.02.003.0443 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411024
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:2024-11-11

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:24.00V I:1.325A P:31.79W PF:1.000 Freq:0Hz Lamp Flux:2358.73x1 lm		
NAME: 8.02.003.0443 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411024
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	10.7	13.5	15.1	15.5	18.7	21.0	26.4	33.7	39.9	43.5	43.7	42.4	41.6	40.0	38.2	36.5	35.1	34.4	34.7
-75	10.7	14.2	17.2	21.2	25.2	28.6	39.0	49.2	62.3	73.4	77.6	81.2	84.9	87.2	88.8	89.7	90.3	90.9	91.5
-70	10.0	15.0	21.0	27.9	33.7	39.0	55.3	69.4	89.9	107	114	121	129	135	140	143	146	148	149
-65	8.66	16.7	23.3	31.2	37.6	47.9	65.7	89.4	116	142	161	175	191	204	215	224	230	234	236
-60	9.79	20.5	29.3	35.6	45.1	62.0	88.2	120	151	189	213	235	259	278	295	307	316	321	324
-55	7.82	19.1	28.6	37.5	48.6	72.1	100	142	181	226	263	304	343	371	395	413	424	431	434
-50	10.3	21.7	31.2	42.9	60.3	90.7	129	182	224	276	326	390	439	475	504	524	536	543	544
-45	5.97	19.0	28.8	42.1	63.1	100	145	207	258	323	379	446	506	548	584	613	629	639	641
-40	8.05	17.7	32.0	50.3	80.5	123	187	252	316	381	456	529	592	637	678	710	727	737	736
-35	2.79	15.4	28.2	50.3	84.7	142	196	270	341	421	498	572	635	681	717	745	761	771	772
-30	3.21	16.0	32.8	62.9	106	180	237	315	398	485	570	644	700	740	769	788	800	808	806
-25	0.26	12.1	31.3	67.4	116	180	245	324	415	504	588	660	718	760	790	811	824	832	831
-20	0.53	15.2	40.1	88.5	143	203	279	368	468	558	637	703	755	794	820	840	852	857	855
-15	0.00	13.4	47.1	87.8	139	201	279	368	469	562	643	711	763	803	830	849	862	867	866
-10	0.01	17.6	66.3	105	153	225	308	406	507	601	679	742	790	825	849	864	874	877	876
-5	0.00	23.7	62.1	99.1	146	211	292	390	492	588	668	733	782	819	844	860	871	876	876
0	7.01	39.0	70.8	110	161	228	313	415	517	609	686	747	792	823	846	862	872	876	874
5	0.00	33.8	63.8	100	148	211	291	388	489	583	663	726	774	807	832	849	859	864	863
10	12.5	39.7	70.4	108	157	223	305	401	501	591	667	727	771	802	825	840	849	852	851
15	2.44	35.4	63.4	98.1	143	202	276	366	462	553	631	694	742	777	801	816	826	830	830
20	13.4	39.3	69.0	104	149	207	280	369	461	548	623	683	729	762	784	797	804	808	809
25	3.21	34.2	60.1	91.8	131	183	246	322	406	489	564	627	677	715	740	757	767	772	774
30	13.1	36.6	62.9	93.8	132	182	240	309	385	462	532	593	642	679	705	722	732	738	740
35	3.93	31.3	54.2	81.3	115	157	206	264	330	400	466	524	574	614	645	665	679	687	690
40	13.1	33.4	55.6	81.0	112	150	194	245	302	366	424	477	523	563	593	615	630	638	640
45	4.96	28.0	47.7	69.4	95.7	128	164	205	250	302	352	399	443	482	514	535	551	560	564
50	13.3	29.9	47.9	67.5	91.1	119	149	182	218	258	299	339	379	415	444	463	477	485	487
55	6.07	25.8	41.4	57.8	76.3	98.6	123	150	177	207	239	268	297	324	346	363	374	382	385
60	13.4	28.0	40.2	55.1	69.9	87.7	108	127	147	170	191	209	227	242	256	268	276	281	283
65	7.33	22.0	34.3	45.2	57.2	70.5	86.1	101	116	130	145	157	168	179	188	195	201	205	207
70	12.8	21.7	31.2	39.9	49.6	59.2	70.8	81.2	89.9	96.7	103	109	114	119	122	126	128	130	131
75	8.84	19.0	25.1	32.4	38.5	45.5	53.0	60.1	64.8	68.2	71.0	73.3	75.3	76.8	77.9	78.7	79.3	79.8	80.5
80	11.8	19.7	21.9	27.7	29.9	34.6	38.3	41.2	41.2	40.8	39.9	38.7	37.2	35.5	33.7	32.1	30.9	30.4	30.7
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:2024-11-11

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.325A P:31.79W PF:1.000 Freq:0Hz Lamp Flux:2358.73x1 lm		
NAME: 8.02.003.0443 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411024
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	36.1	38.3	41.1	44.1	47.0	49.6	51.7	53.2	54.0	51.8	46.4	40.8	38.6	32.7	29.7	27.7	24.5	21.8
-75	92.3	93.2	93.9	94.2	94.0	93.0	91.2	88.6	85.2	80.5	68.5	58.2	52.7	45.2	37.6	32.0	26.4	21.6
-70	149	148	147	144	141	136	130	123	115	106	86.9	72.5	63.1	55.9	42.9	34.6	27.0	20.0
-65	236	234	229	222	213	202	189	175	159	141	116	91.1	78.0	65.8	51.8	40.2	29.7	21.1
-60	322	318	309	297	282	264	243	221	197	167	136	106	86.0	69.7	57.5	40.9	29.5	19.8
-55	432	426	415	400	380	356	327	289	251	214	174	132	102	83.4	64.8	48.1	34.1	21.3
-50	540	531	516	496	469	437	397	342	292	245	198	146	109	87.9	67.3	50.1	32.4	18.7
-45	636	626	608	582	549	514	471	413	353	298	243	188	134	97.3	73.4	53.8	35.7	21.3
-40	729	715	692	656	616	575	523	459	392	328	266	208	143	97.5	71.8	51.4	31.9	16.5
-35	766	754	735	706	670	632	584	524	455	383	310	241	175	118	79.0	55.0	35.8	19.4
-30	799	787	768	742	709	671	623	562	490	408	324	248	185	123	73.8	50.7	31.7	16.1
-25	826	815	798	773	742	704	657	599	530	450	365	282	211	148	96.7	57.9	33.3	15.5
-20	849	838	819	793	760	720	670	610	539	458	371	286	211	150	100	52.5	26.5	10.3
-15	861	851	834	811	781	743	698	642	575	495	407	317	235	168	117	72.0	36.5	8.31
-10	870	859	841	818	787	750	705	649	580	498	408	312	229	163	113	76.3	33.8	0.00
-5	871	861	845	824	795	760	716	662	596	517	428	334	247	176	122	82.8	47.6	14.7
0	868	858	842	819	790	753	708	651	583	502	412	318	233	164	113	75.9	46.9	16.3
5	859	850	836	816	789	754	710	656	591	512	424	331	245	174	121	82.0	51.9	26.7
10	847	838	824	804	776	739	693	637	569	488	399	306	225	160	111	74.8	46.5	22.8
15	827	820	807	788	763	727	682	627	561	484	398	310	230	165	116	79.2	50.6	27.5
20	806	798	784	764	736	699	651	593	524	445	362	280	207	147	104	71.0	44.7	23.1
25	773	766	752	732	705	669	623	568	503	430	351	275	206	150	108	75.1	48.8	27.4
30	738	729	713	690	660	622	575	518	454	383	309	240	181	134	97.1	67.8	43.8	23.2
35	688	680	664	642	613	577	533	482	422	357	290	228	175	132	97.3	69.5	46.5	27.3
40	636	625	607	584	553	516	472	422	365	304	246	194	149	114	85.5	61.4	41.2	23.6
45	561	553	539	519	491	456	417	371	322	272	224	180	142	110	83.9	62.0	43.2	27.1
50	484	476	463	444	417	382	345	302	259	220	184	150	120	94.7	73.0	54.5	38.6	23.9
55	384	378	369	355	336	312	286	255	222	191	162	135	111	88.7	69.3	53.0	39.0	26.5
60	282	277	270	260	247	232	215	195	171	150	128	110	92.4	74.6	58.7	45.6	34.3	23.7
65	206	204	201	195	188	178	168	155	140	126	110	96.0	82.1	67.9	55.3	44.3	34.7	25.7
70	131	130	129	127	124	120	116	110	104	96.3	86.2	77.1	65.9	55.9	47.2	39.1	31.4	23.4
75	81.3	82.1	82.9	83.4	83.4	82.8	81.6	79.6	77.1	73.9	68.9	62.9	55.3	48.2	42.2	36.6	31.1	25.2
80	32.1	34.3	36.9	39.7	42.4	44.9	46.9	48.4	49.3	49.7	49.4	45.7	41.6	37.9	34.9	31.9	28.6	23.5
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:2024-11-11

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: