

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	369.3 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	149.7V x 155.6H
	At 50% of Imax	108.0V x 107.7H
	At 90% of Imax	56.1V x 55.7H

Beam Flux	Total	998.4 lumens per klm.
	To 10% of Imax	978.1 lumens per klm.
	To 50% of Imax	758.7 lumens per klm.
	To 90% of Imax	258.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

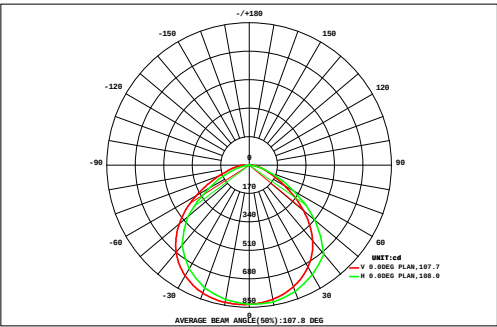
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

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:1.295A P:31.08W PF:1.000 Freq:0Hz Lamp Flux:2258.49x1 lm		
NAME: 8.02.003.0440 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:72.66lm/W	
MODEL	LLS-COVE1-W40-30W-24V-001	Imax(cd)	834.0
NOMINAL POWER(W)	30	AVAILABILITY(%)	98.1
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	2215
NOMINAL FLUX(lm)	2258.49	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2258
TEST VOLTAGE(V)	24	θ @50%(H,V)	108,108DEG

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	0.20	0.49	0.89	1.25	1.55	1.79	1.97	2.13	2.29	2.41	2.44	2.29	1.99	1.53	0.95	0.47	0.13	24.8	13.0
70	0.04	0.28	0.74	1.45	2.34	3.34	4.33	5.20	5.80	6.05	5.88	5.32	4.43	3.33	2.19	1.22	0.52	0.12	52.6	49.9
60	0.05	0.37	1.04	2.16	3.82	5.88	8.05	9.88	11.1	11.4	10.9	9.59	7.60	5.27	3.20	1.65	0.65	0.13	92.7	91.3
50	0.07	0.45	1.36	3.00	5.60	8.91	12.4	15.1	16.7	17.1	16.2	14.2	11.1	7.59	4.42	2.12	0.79	0.15	137	136
40	0.08	0.54	1.67	3.93	7.53	11.8	15.8	18.7	20.3	20.6	19.6	17.4	14.0	9.85	5.68	2.61	0.91	0.16	171	171
30	0.09	0.61	1.97	4.81	9.23	14.1	18.2	21.1	22.6	22.9	21.9	19.7	16.1	11.6	6.80	3.06	1.01	0.17	196	195
20	0.09	0.65	2.19	5.49	10.5	15.6	19.7	22.5	24.1	24.4	23.4	21.2	17.5	12.7	7.57	3.39	1.08	0.18	212	212
10	0.09	0.66	2.28	5.79	11.0	16.1	20.3	23.2	24.8	25.1	24.1	21.7	18.1	13.3	8.01	3.59	1.13	0.18	219	219
0	0.08	0.66	2.28	5.80	11.0	16.2	20.4	23.4	25.0	25.3	24.3	21.8	18.1	13.3	8.07	3.63	1.14	0.18	221	220
-10	0.05	0.60	2.15	5.48	10.5	15.6	19.9	23.0	24.6	24.9	23.8	21.3	17.6	12.9	7.79	3.49	1.10	0.15	215	215
-20	0.03	0.48	1.89	4.77	9.34	14.4	18.7	21.7	23.5	23.7	22.6	20.2	16.6	11.9	7.00	3.15	0.94	0.12	201	200
-30	0.03	0.33	1.50	3.82	7.65	12.5	16.8	20.0	21.7	22.0	20.9	18.5	15.0	10.5	6.02	2.64	0.76	0.13	181	180
-40	0.04	0.27	1.04	2.93	5.72	9.58	13.5	16.6	18.5	18.8	17.8	15.4	12.2	8.22	4.76	2.05	0.70	0.13	148	147
-50	0.04	0.22	0.74	1.97	3.94	6.47	9.10	11.1	12.3	12.7	12.2	10.9	8.67	5.92	3.39	1.54	0.62	0.12	102	100
-60	0.03	0.18	0.48	1.24	2.44	3.60	4.71	5.71	6.41	6.72	6.57	5.93	4.92	3.70	2.25	1.16	0.49	0.10	56.7	54.1
-70	0.02	0.11	0.27	0.65	1.22	1.59	1.90	2.14	2.32	2.46	2.55	2.52	2.32	1.96	1.35	0.79	0.36	0.09	24.6	11.5
-80	0.01	0.03	0.06	0.14	0.22	0.23	0.19	0.16	0.15	0.17	0.24	0.34	0.44	0.46	0.38	0.24	0.13	0.04	3.63	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	0.85	6.62	22.2	54.3	103	157	206	241	262	267	255	228	187	134	80.4	37.3	12.8	2.28	2258	---
Φ a	0.00	2.06	18.2	50.9	100	155	203	239	260	265	253	227	185	133	78.8	35.1	9.51	0.16	---	2215

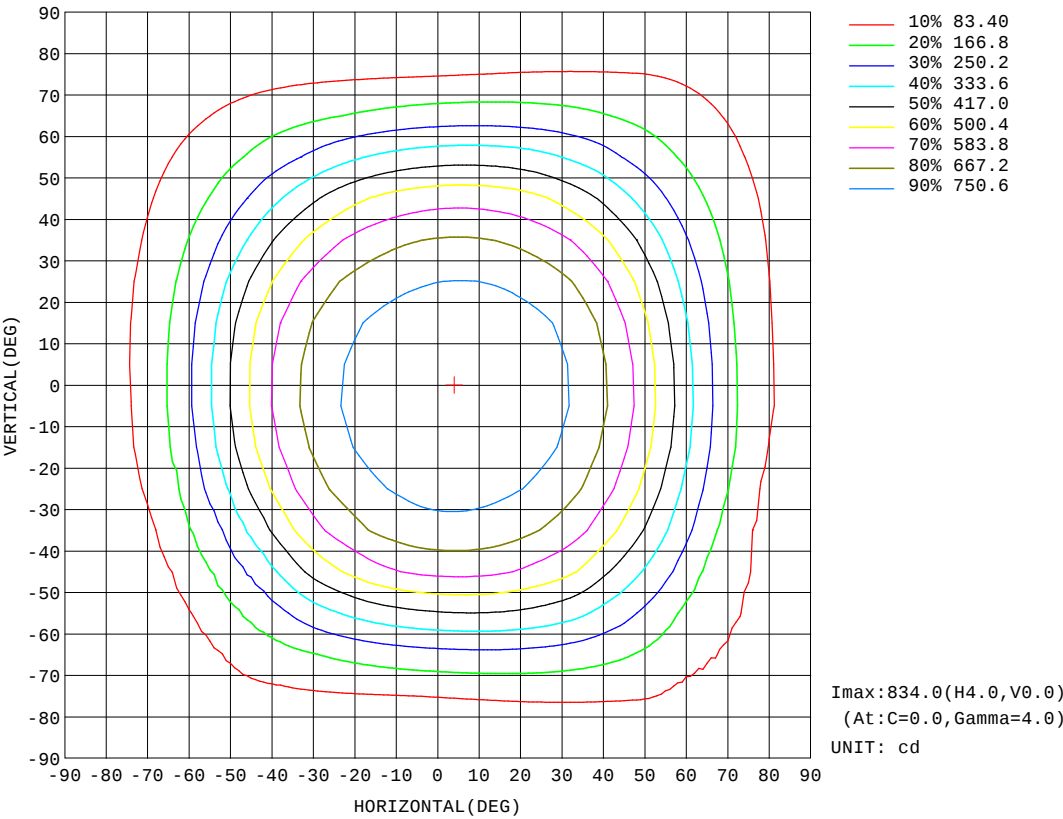
one-half-peak spread: U:54.9,D:53.5 , L:54.6,R:53.5 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

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:1.295A P:31.08W PF:1.000 Freq:0Hz Lamp Flux:2258.49x1 lm		
NAME: 8.02.003.0440 LLS-COVE1-W40-30W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

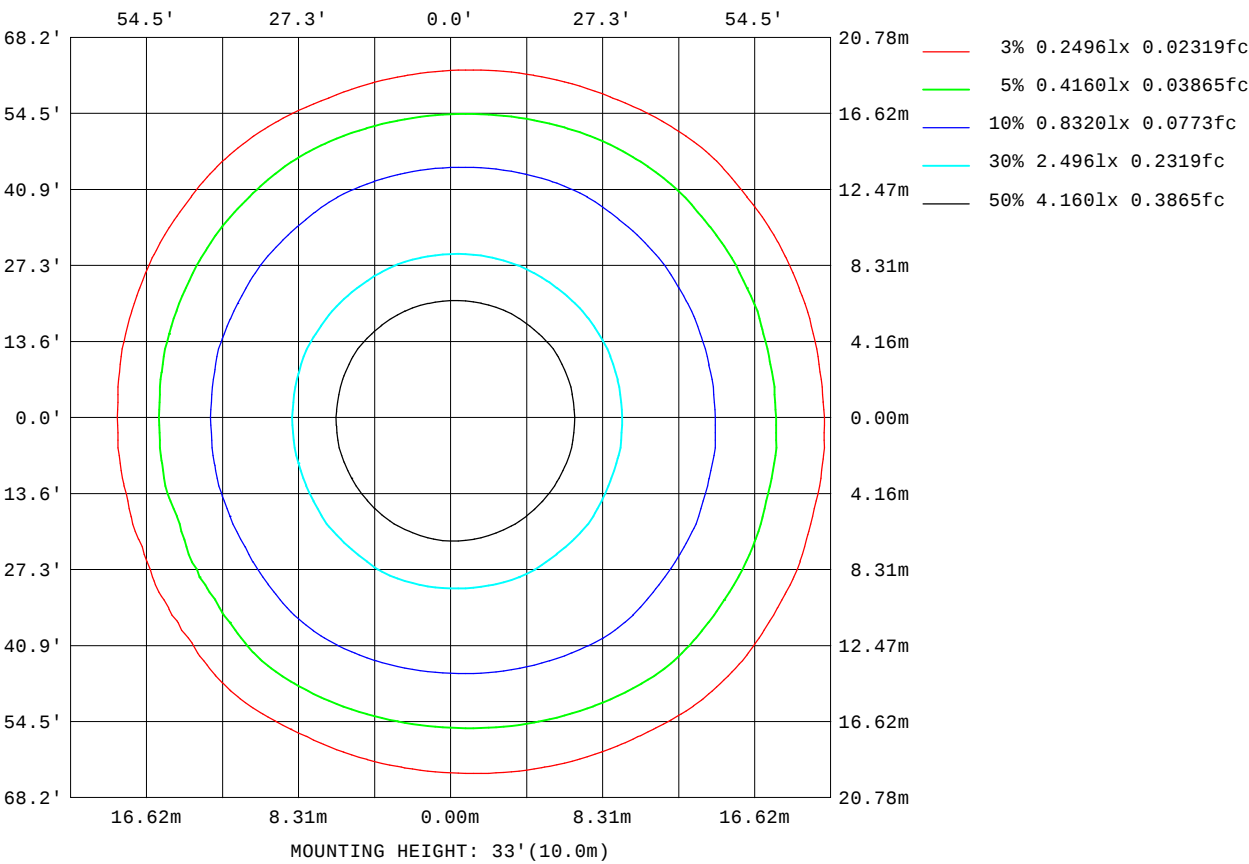


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

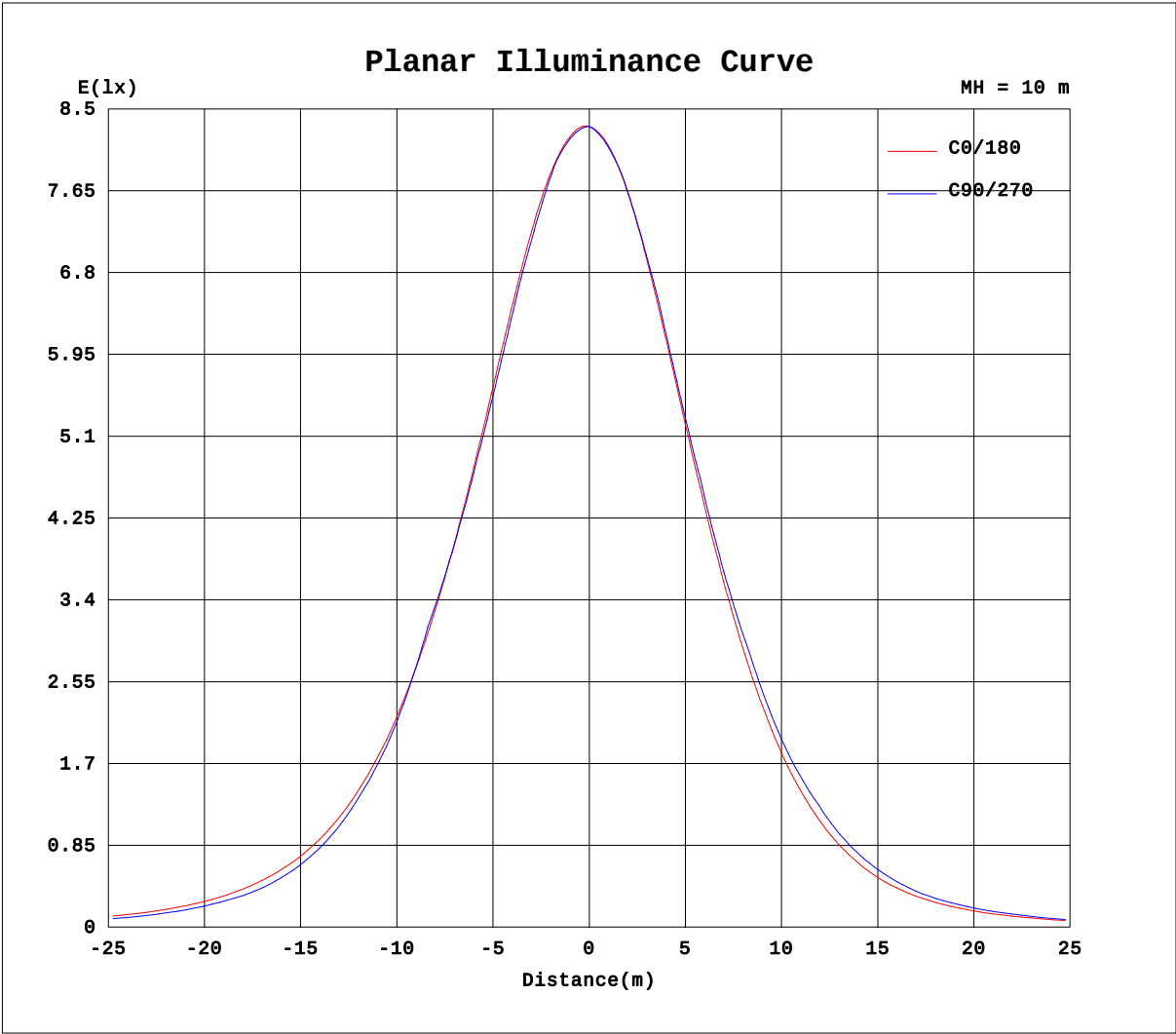
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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

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

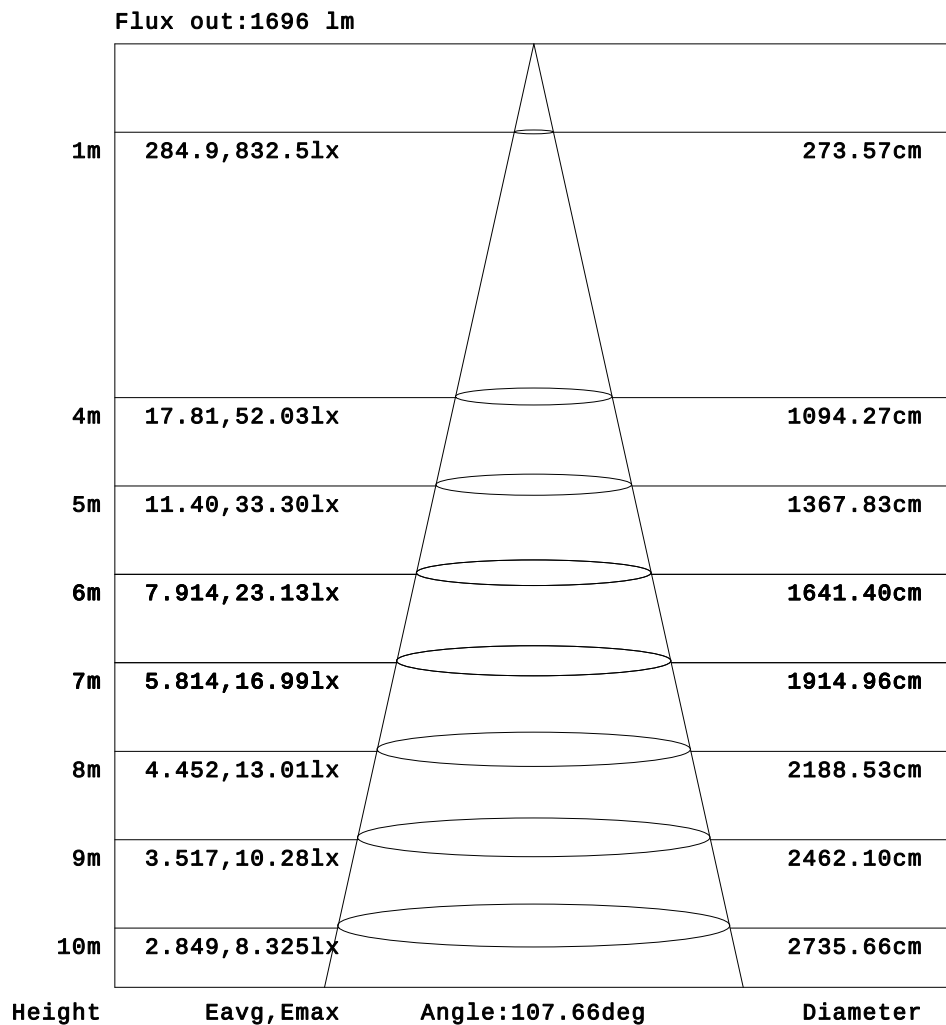


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
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AAI Figure

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SPEC.:	DIM.:	SERIAL No.:202410041
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:2024-10-24

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:1.295A P:31.08W PF:1.000 Freq:0Hz Lamp Flux:2258.49x1 lm		
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SPEC.:	DIM.:	SERIAL No.:202410041
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	0.00	4.29	9.08	10.9	12.0	13.3	17.1	24.8	30.1	34.2	35.0	34.6	34.5	33.8	32.9	32.0	31.4	31.4	32.6
-75	0.00	6.30	10.7	14.7	17.7	20.3	28.7	38.3	48.7	59.5	63.5	67.4	71.3	74.4	77.1	79.4	81.5	83.7	86.1
-70	0.00	8.30	12.4	18.4	23.5	27.2	40.3	51.8	67.4	84.8	92.0	100	108	115	121	127	132	136	140
-65	0.00	9.30	15.0	20.8	28.2	36.9	50.7	69.7	92.8	116	131	148	163	177	190	201	210	217	223
-60	0.00	10.3	17.5	23.1	32.9	46.6	61.0	87.5	118	147	170	196	218	239	259	275	289	299	306
-55	0.00	11.4	19.2	27.4	36.5	57.1	80.2	113	149	182	219	258	296	326	353	375	391	403	411
-50	0.00	12.5	20.9	31.7	40.0	67.5	99.3	138	180	218	269	321	374	414	447	474	494	507	515
-45	0.00	11.4	20.7	33.3	48.1	79.8	120	164	215	261	321	381	440	485	524	557	580	597	605
-40	0.00	10.4	20.6	34.8	56.2	92.1	141	191	251	304	374	442	507	557	600	640	666	686	694
-35	0.00	9.53	20.8	39.1	68.0	111	163	218	278	349	424	494	556	605	644	678	700	717	725
-30	0.00	8.64	21.0	43.3	79.9	131	185	245	305	394	474	547	606	653	689	715	734	749	755
-25	0.00	7.96	24.1	52.5	92.8	142	200	269	342	429	507	576	633	678	712	739	758	772	779
-20	0.00	7.27	27.2	61.6	106	153	216	292	379	463	539	604	659	703	736	762	782	796	804
-15	0.00	9.12	37.2	69.5	109	161	227	306	396	483	560	624	678	720	753	778	797	810	817
-10	0.00	11.0	47.3	77.5	113	169	237	321	413	502	581	644	696	737	770	795	812	824	831
-5	0.00	17.0	48.5	78.7	116	170	239	325	419	507	585	648	699	740	772	796	813	825	831
0	0.00	23.0	49.7	79.9	119	172	242	330	424	513	590	652	703	742	773	797	814	825	832
5	0.00	24.3	49.8	79.3	118	171	240	325	418	506	583	645	695	735	765	789	806	817	824
10	0.00	25.6	49.8	78.7	116	169	237	321	411	499	575	637	688	727	757	780	797	809	815
15	0.00	25.9	49.5	77.5	114	164	228	307	396	482	557	620	671	711	741	763	780	791	798
20	0.00	26.2	49.2	76.4	112	158	219	293	380	464	539	602	653	695	725	747	763	774	781
25	0.00	24.4	47.1	72.8	105	148	203	270	348	427	499	562	614	657	690	713	731	742	750
30	0.00	22.6	45.0	69.1	99.3	138	187	248	316	389	459	522	576	620	655	680	698	710	718
35	0.00	22.1	42.3	64.4	91.9	126	169	222	282	347	412	471	523	568	604	631	651	664	673
40	0.00	21.7	39.6	59.7	84.5	115	151	196	248	305	366	421	471	515	553	582	604	618	627
45	0.00	20.4	36.4	54.5	76.5	103	134	170	213	260	310	358	404	446	481	509	530	545	553
50	0.00	19.0	33.2	49.3	68.5	91.8	117	145	178	215	255	295	337	377	410	436	456	471	480
55	0.00	16.7	30.2	44.8	60.5	79.7	100	123	149	178	209	238	269	298	323	343	359	372	379
60	0.00	14.3	27.2	40.3	52.5	67.6	84.1	102	120	141	162	181	200	218	235	250	262	272	279
65	0.00	11.1	23.6	34.5	44.6	56.2	69.5	82.9	96.2	110	124	137	150	162	173	183	191	198	203
70	0.00	7.83	20.1	28.7	36.6	44.9	54.9	64.1	72.7	79.7	86.5	93.1	99.4	105	111	116	120	124	127
75	0.00	6.23	14.2	22.1	28.3	34.5	41.4	47.7	52.3	55.8	59.1	62.1	64.9	67.3	69.4	71.4	73.4	75.5	77.8
80	0.00	4.63	8.22	15.4	20.1	24.1	27.9	31.3	31.9	32.0	31.8	31.2	30.3	29.3	28.2	27.3	26.7	27.0	28.2
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

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Operators:QC1
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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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	34.6	37.6	41.3	45.3	49.3	52.9	56.1	58.6	60.4	59.3	53.6	48.5	46.8	39.8	36.5	32.8	30.8	26.8
-75	88.8	91.5	94.2	96.4	97.9	98.5	98.1	96.6	94.1	89.7	77.0	66.1	61.8	53.2	44.3	37.6	32.2	26.5
-70	143	145	147	147	147	144	140	135	128	120	100	83.7	76.9	66.7	52.1	42.4	33.5	26.3
-65	227	229	229	226	221	212	202	189	174	155	129	103	89.2	76.7	61.0	46.9	35.8	26.1
-60	311	313	311	305	295	281	264	244	221	190	159	123	102	86.8	69.8	51.5	38.1	26.0
-55	415	416	412	403	389	370	344	309	275	235	194	150	115	97.1	75.8	55.7	40.0	25.6
-50	519	519	513	502	484	460	425	374	328	279	230	176	129	107	81.8	59.9	42.0	25.3
-45	607	604	595	577	553	526	487	433	380	325	269	211	151	112	86.3	62.2	41.1	24.5
-40	696	690	676	652	623	592	548	491	431	371	308	246	174	117	90.7	64.5	40.2	23.8
-35	726	721	709	690	665	636	595	541	479	412	340	269	198	135	93.0	63.2	41.0	22.9
-30	756	752	743	729	708	680	642	591	527	452	373	291	222	154	95.4	61.9	41.7	22.0
-25	781	777	767	752	731	703	664	614	552	478	397	313	237	169	111	65.7	37.9	18.6
-20	805	802	792	776	755	726	687	637	576	504	421	334	253	184	127	69.6	34.0	15.1
-15	819	816	807	792	771	743	705	656	596	523	440	349	262	190	132	81.2	40.8	9.07
-10	834	831	823	808	788	760	723	676	616	543	458	365	272	196	137	92.9	47.7	3.01
-5	834	831	824	811	790	762	725	678	617	544	459	365	274	197	137	92.4	52.8	14.0
0	834	832	826	813	793	764	727	680	619	545	459	366	275	197	136	91.9	57.9	25.1
5	825	824	818	806	787	759	722	674	613	539	453	361	271	195	135	91.4	57.6	27.8
10	817	815	809	798	780	754	717	668	606	533	447	356	266	192	134	90.8	57.4	30.6
15	800	799	793	781	764	737	700	650	587	513	429	340	256	185	130	88.6	56.4	30.6
20	784	782	776	764	747	720	682	631	568	494	410	325	246	179	126	86.3	55.4	30.6
25	752	750	744	731	712	684	645	595	534	463	385	304	231	170	121	84.3	54.8	30.8
30	720	718	712	698	677	648	609	560	500	432	359	283	217	161	117	82.4	54.2	30.9
35	675	672	663	649	628	598	560	512	455	390	323	256	199	149	110	78.6	52.6	31.0
40	630	626	615	600	578	548	510	464	409	348	287	230	181	137	103	74.8	51.1	31.1
45	557	554	546	532	511	480	445	403	353	302	252	204	162	126	95.9	70.8	49.6	31.3
50	483	483	476	464	443	413	379	342	297	256	217	178	143	114	88.5	66.8	48.1	31.5
55	383	383	378	369	354	333	309	281	246	215	184	154	127	102	79.9	61.5	45.6	31.3
60	283	283	280	274	265	253	238	219	196	174	151	130	110	89.7	71.4	56.2	43.1	31.0
65	206	208	207	204	199	192	182	171	157	142	126	110	94.6	78.8	64.5	52.0	41.2	30.8
70	130	132	133	133	132	130	127	123	117	110	100	90.7	78.9	67.9	57.6	47.9	39.3	30.6
75	80.2	82.7	85.0	86.9	88.3	89.0	88.9	88.0	86.3	83.6	78.8	72.6	64.6	57.1	50.5	44.0	37.7	30.7
80	30.4	33.4	36.9	40.7	44.4	47.9	51.0	53.5	55.6	56.9	57.4	54.4	50.4	46.4	43.5	40.0	36.1	30.8
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:2024-10-24

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: