

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	404.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	143.9V x 154.1H
	At 50% of Imax	98.8V x 105.6H
	At 90% of Imax	45.0V x 49.8H

Beam Flux	Total	998.8 lumens per klm.
	To 10% of Imax	975.4 lumens per klm.
	To 50% of Imax	726.0 lumens per klm.
	To 90% of Imax	207.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

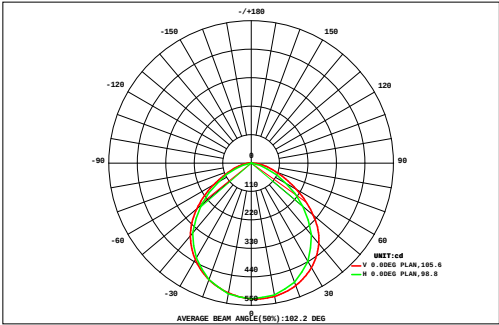
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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:0.6246A P:14.99W PF:1.000 Freq:0Hz Lamp Flux:1299.7x1 lm		
NAME: 8.02.003.0444 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411023
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:86.70lm/W	
MODEL	LLS-COVE1-W40-15W-24V-001	Imax(cd)	526.1
NOMINAL POWER(W)	15	AVAILABILITY(%)	97.8
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	1271
NOMINAL FLUX(lm)	1299.7	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1300
TEST VOLTAGE(V)	24	θ @50%(H,V)	106, 99DEG

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	0.02	0.16	0.35	0.57	0.76	0.90	0.97	0.98	0.94	0.90	0.85	0.79	0.69	0.55	0.39	0.23	0.10	0.02	10.2	1.83
70	0.04	0.22	0.56	1.02	1.56	2.11	2.60	2.96	3.10	3.03	2.76	2.34	1.82	1.28	0.80	0.42	0.16	0.03	26.8	24.0
60	0.05	0.31	0.82	1.61	2.63	3.76	4.81	5.60	5.97	5.85	5.30	4.41	3.33	2.23	1.31	0.64	0.22	0.03	48.9	47.8
50	0.06	0.39	1.10	2.29	3.93	5.76	7.41	8.63	9.18	9.05	8.28	6.93	5.22	3.43	1.91	0.88	0.29	0.04	74.8	74.1
40	0.07	0.46	1.38	3.03	5.34	7.78	9.83	11.2	11.9	11.8	10.9	9.29	7.10	4.69	2.55	1.12	0.35	0.05	98.8	98.4
30	0.07	0.52	1.63	3.72	6.56	9.43	11.7	13.1	13.7	13.7	12.8	11.1	8.59	5.77	3.17	1.34	0.41	0.05	117	117
20	0.08	0.57	1.83	4.22	7.39	10.5	12.9	14.4	15.1	15.0	14.0	12.2	9.62	6.56	3.62	1.50	0.44	0.06	130	130
10	0.08	0.59	1.93	4.49	7.79	10.9	13.4	15.0	15.8	15.6	14.6	12.6	10.0	6.92	3.86	1.60	0.47	0.06	136	135
0	0.07	0.59	1.94	4.48	7.79	10.9	13.4	15.1	15.9	15.7	14.5	12.5	9.95	6.93	3.89	1.60	0.47	0.06	136	135
-10	0.06	0.56	1.85	4.27	7.44	10.5	13.0	14.7	15.4	15.1	14.0	12.1	9.55	6.58	3.64	1.51	0.45	0.05	131	130
-20	0.04	0.52	1.69	3.86	6.80	9.79	12.2	13.7	14.3	14.0	12.9	11.1	8.64	5.82	3.14	1.30	0.39	0.04	120	120
-30	0.03	0.45	1.45	3.28	5.76	8.39	10.6	11.9	12.3	12.1	11.1	9.43	7.15	4.65	2.47	1.05	0.31	0.02	102	102
-40	0.03	0.34	1.15	2.48	4.32	6.35	8.15	9.24	9.62	9.37	8.52	7.09	5.29	3.40	1.83	0.81	0.24	0.01	78.2	77.7
-50	0.02	0.23	0.85	1.74	2.89	4.18	5.32	6.07	6.33	6.15	5.51	4.51	3.33	2.18	1.24	0.59	0.15	0.01	51.3	50.3
-60	0.02	0.15	0.58	1.13	1.72	2.34	2.85	3.18	3.27	3.14	2.80	2.31	1.75	1.21	0.73	0.36	0.08	0.00	27.6	25.3
-70	0.01	0.08	0.33	0.60	0.82	1.00	1.08	1.09	1.03	0.96	0.87	0.76	0.63	0.48	0.32	0.16	0.02	0.00	10.3	1.81
-80	0.01	0.02	0.08	0.13	0.14	0.11	0.07	0.04	0.02	0.01	0.01	0.01	0.02	0.03	0.03	0.01	0.00	0.00	0.75	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	0.76	6.15	19.5	42.9	73.6	105	130	147	154	151	140	119	92.7	62.7	34.9	15.1	4.55	0.52	1300	---
Φ a	0.00	3.97	17.7	41.2	72.0	103	129	146	153	150	138	118	91.0	60.9	32.9	13.0	1.96	0.00	---	1271

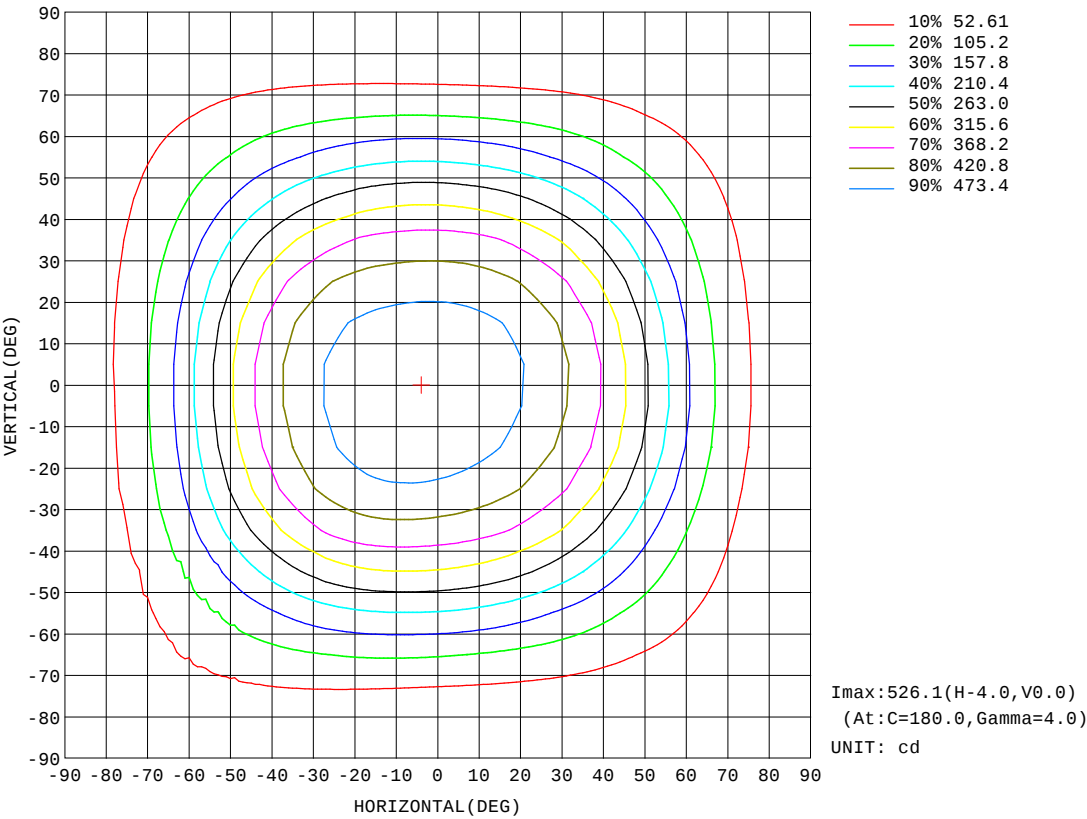
one-half-peak spread: U:50.1,D:49.3 , L:50.6,R:55.4 NEMA Beam Type: Type 7

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:0.6246A P:14.99W PF:1.000 Freq:0Hz Lamp Flux:1299.7x1 lm		
NAME: 8.02.003.0444 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411023
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

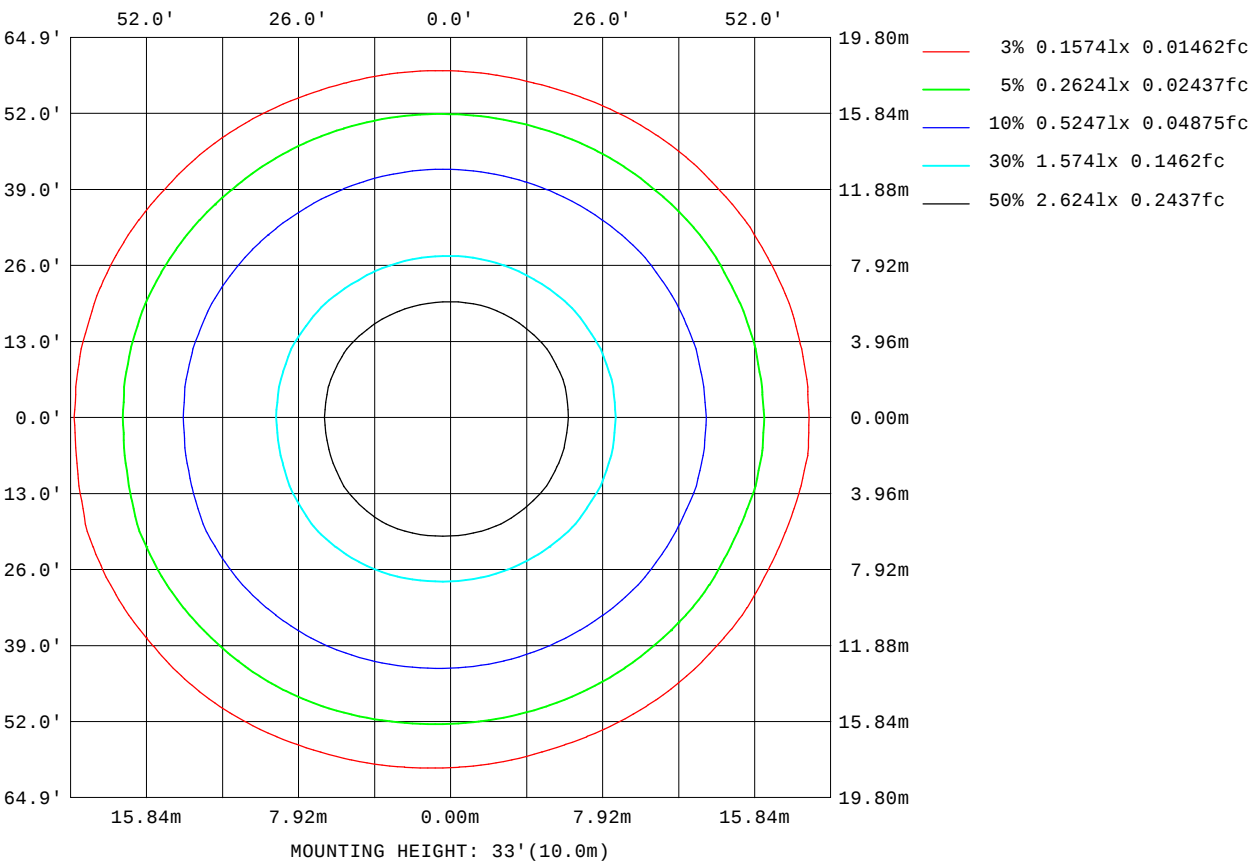


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

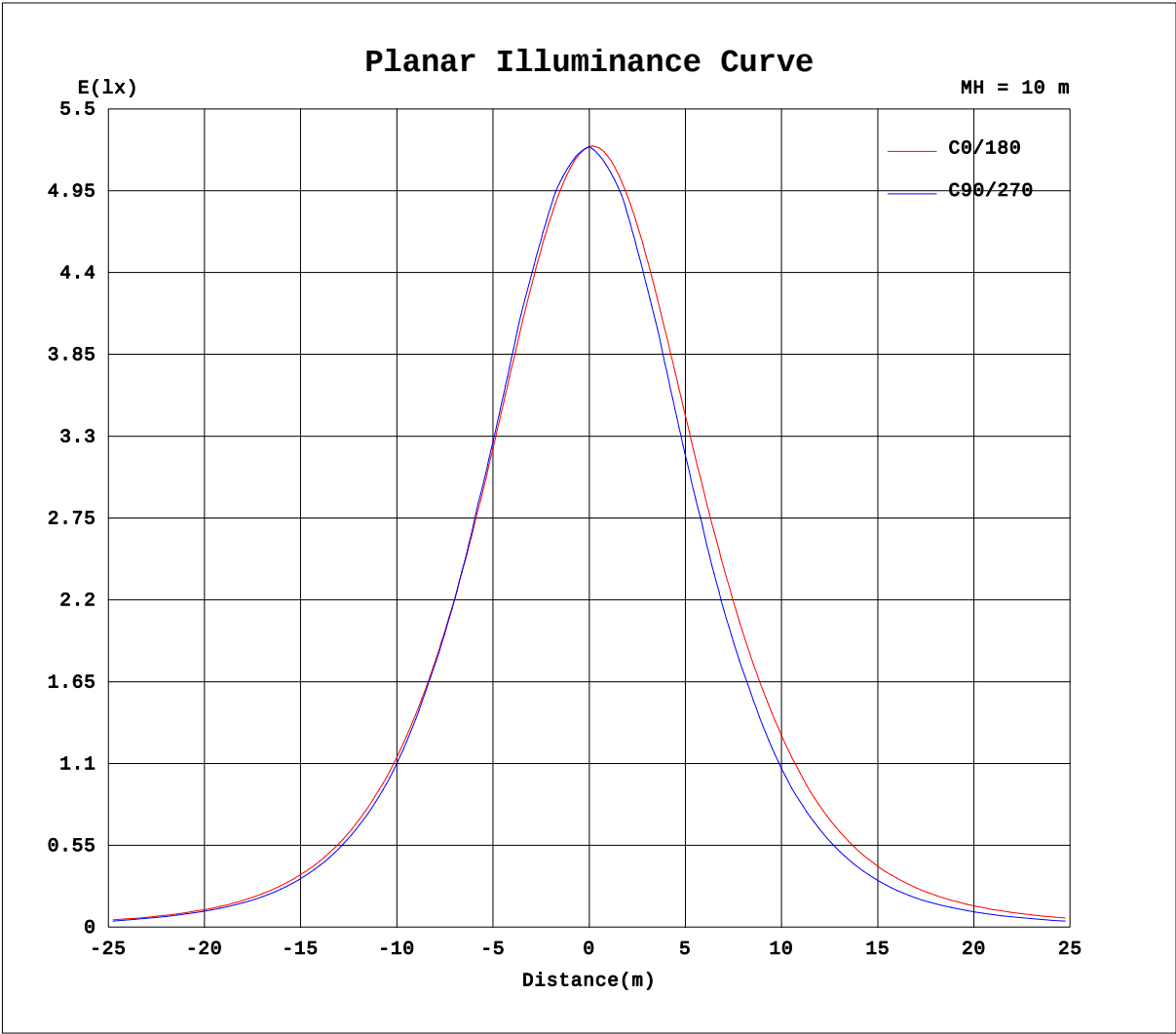
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Test Speed: HIGH
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Test Date:2024-11-11

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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:

Planar Illuminance Curve

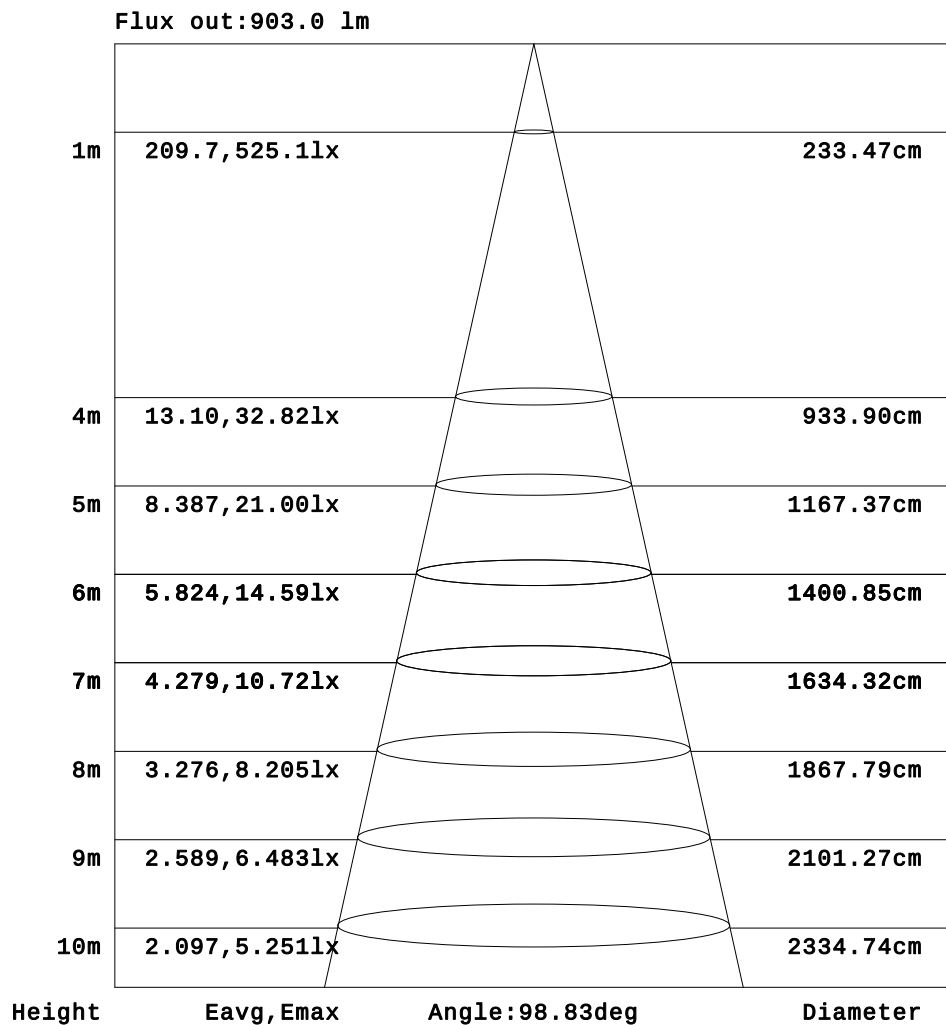


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AAI Figure

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SPEC.:	DIM.:	SERIAL No.:202411023
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:0.6246A P:14.99W PF:1.000 Freq:0Hz Lamp Flux:1299.7x1 lm		
NAME: 8.02.003.0444 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411023
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	2.36	6.04	4.01	6.19	10.9	17.9	22.2	21.5	21.1	22.3	21.5	20.1	18.4	16.4	14.3	12.1	10.1	8.40	7.17
-75	1.24	5.73	4.52	9.46	17.8	26.2	33.1	34.9	37.4	39.6	41.6	42.4	42.7	42.4	41.6	40.5	39.1	37.7	36.4
-70	0.12	5.41	5.03	12.7	24.7	34.4	44.0	48.2	53.7	56.9	61.7	64.7	66.9	68.3	69.0	68.8	68.1	67.1	65.6
-65	0.06	6.22	8.66	16.8	30.7	44.5	54.2	65.0	73.8	81.3	89.4	96.2	102	106	109	111	111	111	109
-60	0.00	7.04	12.3	21.0	36.7	54.6	64.3	81.7	93.8	106	117	128	137	144	150	153	155	155	153
-55	0.00	7.21	14.2	26.3	44.8	67.1	76.7	101	118	135	153	168	182	193	202	207	209	209	207
-50	0.00	7.38	16.0	31.7	52.9	79.7	89.1	120	142	165	188	209	228	243	253	260	263	263	261
-45	0.00	6.67	18.4	38.1	65.2	87.0	110	141	170	199	228	253	275	293	305	312	315	314	312
-40	0.00	5.96	20.7	44.5	77.5	94.4	131	163	198	233	267	297	322	344	357	364	366	366	363
-35	0.00	5.12	26.2	52.0	82.5	108	145	184	224	264	301	333	360	381	395	402	405	404	401
-30	0.00	4.27	31.8	59.4	87.4	122	160	205	250	295	335	369	398	419	433	441	443	442	439
-25	0.00	5.42	35.2	63.3	91.8	128	170	218	267	314	355	390	419	440	456	464	468	468	465
-20	0.00	6.57	38.6	67.3	96.1	135	180	231	283	333	376	411	440	462	478	488	493	493	490
-15	0.00	12.5	40.5	68.3	98.8	139	187	241	294	344	386	421	449	471	488	499	505	506	504
-10	0.00	18.5	42.4	69.3	102	143	194	250	305	355	397	431	458	480	498	510	517	519	517
-5	0.00	19.5	43.8	70.4	103	145	197	253	309	360	401	435	462	483	500	513	520	523	521
0	0.00	20.5	45.2	71.4	105	148	199	256	312	365	406	439	466	487	503	515	522	526	525
5	0.00	22.0	44.6	70.4	103	145	196	253	309	360	401	435	462	482	498	509	516	519	519
10	0.00	23.6	44.0	69.3	102	143	194	250	305	355	397	431	458	478	493	503	509	513	513
15	0.00	23.3	43.3	67.7	98.6	138	185	238	292	340	383	417	444	464	477	487	493	496	496
20	0.00	23.1	42.6	66.1	95.6	132	177	227	278	325	369	404	430	449	462	471	476	479	479
25	0.00	21.9	40.8	62.6	89.8	123	163	210	257	302	343	376	402	422	435	444	449	451	452
30	0.00	20.8	38.9	59.1	84.1	114	150	193	237	279	317	349	375	395	409	417	422	424	425
35	0.00	19.2	36.9	55.4	77.8	105	136	172	210	247	282	311	336	355	370	380	386	388	388
40	0.00	17.5	34.9	51.7	71.6	94.8	121	151	183	216	247	274	297	316	332	343	349	352	352
45	0.00	17.3	31.8	47.1	64.2	83.9	106	131	157	183	209	232	252	269	283	294	300	303	302
50	0.00	17.1	28.8	42.5	56.8	73.0	90.6	110	130	151	171	191	208	223	235	244	250	253	252
55	0.00	15.9	26.5	37.9	49.9	63.0	77.0	92.0	107	123	139	153	166	177	187	194	198	200	199
60	0.00	14.6	24.3	33.3	43.0	53.0	63.4	74.1	84.8	95.6	106	115	124	132	138	143	146	147	146
65	0.00	11.3	21.2	27.4	36.0	43.6	51.2	58.8	66.3	73.6	80.4	86.7	92.3	97.1	101	104	105	106	105
70	0.00	7.92	18.0	21.5	29.1	34.1	38.9	43.5	47.7	51.6	55.0	58.0	60.5	62.3	63.7	64.5	64.7	64.4	63.7
75	0.00	5.75	11.1	18.2	21.9	25.6	27.7	31.2	33.3	35.0	36.3	37.3	37.8	38.0	37.8	37.4	36.8	36.1	35.4
80	0.00	3.58	4.13	14.9	14.6	17.2	16.4	19.0	18.9	18.5	17.7	16.5	15.2	13.6	12.0	10.4	8.96	7.80	7.12
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

$H(\beta)$ Range:-90 - 90DEG
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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	6.45	6.23	6.31	6.71	7.25	7.78	8.25	8.59	8.72	8.69	8.35	7.80	4.85	0.28	0.00	0.00	0.00	0.00	
-75	35.1	33.9	32.7	31.5	30.3	28.8	27.2	25.4	23.4	21.2	18.9	16.3	12.6	6.64	1.98	0.54	0.00	0.00	
-70	63.8	61.6	59.1	56.4	53.3	49.9	46.2	42.3	38.1	33.8	29.4	24.9	20.4	13.0	3.96	1.08	0.00	0.00	
-65	107	103	98.1	92.7	86.6	79.7	72.5	65.0	57.4	49.7	42.2	35.0	28.1	18.7	8.51	2.74	0.01	0.00	
-60	149	144	137	129	120	110	98.8	87.7	76.6	65.6	55.0	45.1	35.8	24.4	13.1	4.39	0.01	0.00	
-55	203	196	187	177	164	150	135	118	102	85.8	70.7	57.0	44.6	32.0	18.3	5.80	0.66	0.00	
-50	256	248	238	224	209	190	170	149	127	106	86.5	69.0	53.4	39.6	23.6	7.22	1.31	0.00	
-45	307	299	287	273	255	234	210	184	157	129	104	81.2	61.8	45.2	29.0	10.7	0.75	0.00	
-40	357	349	337	321	301	278	250	220	187	152	121	93.4	70.3	50.9	34.4	14.3	0.18	0.00	
-35	395	387	375	359	339	315	284	251	215	176	139	107	79.4	56.9	38.3	18.0	1.42	0.00	
-30	433	425	413	397	376	351	317	282	243	200	158	120	88.5	62.8	42.3	21.8	2.66	0.00	
-25	459	449	437	420	400	375	343	308	267	222	176	133	97.3	68.7	46.1	26.0	5.67	0.00	
-20	484	474	461	444	424	399	369	333	291	244	194	146	106	74.5	49.9	30.1	8.69	0.00	
-15	497	487	474	457	436	411	381	346	303	255	205	155	113	78.8	52.6	31.9	12.5	0.00	
-10	511	501	487	470	449	423	394	359	315	267	216	164	119	83.1	55.3	33.6	16.3	0.00	
-5	515	505	491	475	453	428	398	363	319	271	219	167	120	83.6	55.5	33.6	16.2	0.00	
0	519	509	496	479	458	432	402	366	324	275	222	169	121	84.0	55.7	33.7	16.2	0.00	
5	514	505	493	477	456	430	400	363	319	270	218	166	120	83.3	55.4	33.6	16.2	0.00	
10	509	501	490	474	454	428	397	360	314	265	213	163	118	82.6	55.0	33.5	16.2	0.00	
15	493	486	475	460	440	414	383	346	301	254	204	155	113	79.2	53.0	32.4	15.7	0.06	
20	477	470	460	445	426	400	369	332	289	243	194	147	108	75.8	51.0	31.2	15.2	0.11	
25	450	444	434	419	399	374	342	307	266	223	179	136	101	71.6	48.6	30.0	14.8	0.24	
30	423	418	407	392	373	348	316	282	244	203	163	126	93.5	67.4	46.2	28.8	14.4	0.36	
35	386	380	369	354	335	312	283	251	217	180	145	112	84.5	61.6	42.6	26.8	13.5	0.20	
40	349	342	331	316	298	276	250	221	189	156	126	98.8	75.5	55.7	39.0	24.7	12.7	0.03	
45	299	292	282	269	252	233	211	186	160	133	108	86.1	66.7	49.8	35.3	22.7	11.9	0.30	
50	249	242	233	221	207	190	171	151	130	110	90.7	73.5	57.9	43.9	31.6	20.6	11.1	0.57	
55	196	191	184	174	163	150	136	120	105	89.4	74.8	61.3	48.9	37.6	27.4	18.1	9.95	0.56	
60	144	140	134	127	119	110	100	90.0	79.5	69.1	59.0	49.2	40.0	31.3	23.2	15.6	8.82	0.55	
65	103	100	96.8	92.4	87.1	81.2	74.6	67.6	60.4	53.2	46.0	38.9	32.1	25.5	19.3	13.3	7.83	0.52	
70	62.6	61.2	59.4	57.3	54.9	52.0	48.8	45.2	41.4	37.2	33.0	28.6	24.2	19.8	15.4	11.0	6.84	0.49	
75	34.8	34.1	33.5	32.9	32.1	31.1	29.8	28.2	26.4	24.3	22.1	19.6	17.0	14.3	11.4	8.56	5.62	0.38	
80	6.91	7.12	7.70	8.46	9.31	10.1	10.7	11.2	11.4	11.4	11.1	10.6	9.81	8.78	7.52	6.08	4.39	0.28	
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(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: