

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

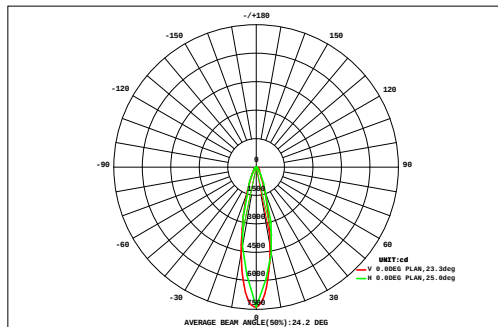
Maximum Intensity (Luminaire orientation as tested.)		3576.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	53.6V x 50.1H
	At 50% of Imax	25.0V x 23.4H
	At 90% of Imax	6.1V x 9.1H
Beam Flux	Total	999.9 lumens per klm.
	To 10% of Imax	712.6 lumens per klm.
	To 50% of Imax	314.8 lumens per klm.
	To 90% of Imax	31.7 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.2V I:0.2979A P:41.66W PF:0.6321 Lamp Flux:2061.81x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080108
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:49.50lm/W	
MODELSP-DKP-F170-24P-RDM	Imax(cd)	7373	
NOMINAL POWER(W)	42	AVAILABILITY(%)	71.6
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	1476
NOMINAL FLUX(lm)	2061.81	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2062
TEST VOLTAGE(V)	221.2	θ @50%(H,V)	23,25DEG

AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
45	0.40	0.53	0.67	0.82	0.97	1.13	1.28	1.41	1.49	1.51	1.47	1.37	1.23	1.07	0.92	0.76	0.62	0.49	18.1	0.00
40	0.55	0.71	0.89	1.09	1.30	1.51	1.69	1.84	1.91	1.89	1.79	1.62	1.43	1.22	1.02	0.83	0.66	0.51	22.4	0.00
35	0.56	0.75	0.98	1.27	1.60	2.00	2.42	2.82	3.09	3.17	3.02	2.69	2.28	1.85	1.48	1.17	0.91	0.70	32.8	0.00
30	0.74	1.00	1.33	1.73	2.22	2.78	3.37	3.87	4.14	4.08	3.72	3.17	2.57	2.02	1.58	1.21	0.92	0.69	41.1	0.00
25	0.71	0.99	1.36	1.90	2.68	3.80	5.33	7.09	8.54	8.97	8.14	6.50	4.79	3.40	2.42	1.74	1.27	0.92	70.5	42.2
20	0.95	1.34	1.89	2.75	4.04	5.91	8.38	10.9	12.5	12.1	10.1	7.42	5.12	3.49	2.41	1.69	1.21	0.85	93.0	68.2
15	0.83	1.19	1.73	2.60	4.14	6.99	12.2	19.7	26.8	29.1	24.9	17.5	10.7	6.26	3.81	2.45	1.63	1.13	174	154
10	1.10	1.62	2.47	3.97	6.82	12.3	21.8	33.5	41.1	39.3	29.3	18.2	10.1	5.67	3.39	2.16	1.44	0.99	235	216
5	0.88	1.28	1.90	2.97	4.98	9.14	17.6	31.4	45.6	51.0	43.8	29.3	16.5	8.70	4.83	2.91	1.86	1.25	276	258
0	1.14	1.70	2.68	4.49	8.22	16.1	30.6	49.0	60.9	57.5	41.2	23.7	12.1	6.27	3.59	2.25	1.49	1.02	324	306
-5	0.85	1.21	1.74	2.61	4.08	6.87	12.4	22.0	33.1	38.9	35.1	24.6	14.5	7.96	4.55	2.80	1.81	1.22	216	197
-10	1.04	1.51	2.23	3.44	5.63	9.59	16.0	22.8	26.6	24.6	18.0	11.3	6.90	4.36	2.85	1.93	1.33	0.93	161	139
-15	0.74	1.03	1.41	1.97	2.78	4.01	6.07	9.35	13.2	15.7	14.9	11.5	7.78	5.00	3.25	2.20	1.51	1.06	103	79.6
-20	0.85	1.16	1.59	2.20	2.99	3.92	4.71	5.03	4.56	3.87	3.32	2.97	2.73	2.31	1.84	1.40	1.05	0.77	47.3	12.2
-25	0.60	0.80	1.06	1.38	1.80	2.33	2.99	3.79	4.59	5.06	4.95	4.31	3.48	2.67	2.02	1.52	1.14	0.85	45.3	4.04
-30	0.64	0.83	1.08	1.35	1.63	1.89	2.06	2.09	1.99	1.88	1.81	1.75	1.61	1.42	1.20	0.99	0.78	0.61	25.6	0.00
-35	0.45	0.60	0.76	0.95	1.15	1.38	1.62	1.85	2.04	2.13	2.11	1.97	1.76	1.50	1.25	1.02	0.81	0.63	24.0	0.00
-40	0.46	0.59	0.72	0.85	0.98	1.10	1.20	1.25	1.26	1.24	1.19	1.12	1.03	0.93	0.81	0.69	0.57	0.45	16.5	0.00
-45	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
Φ t	13.5	18.8	26.5	38.3	58.0	92.8	152	230	293	302	249	171	107	66.1	43.2	29.7	21.0	15.0	1926	---
Φ a	0.00	0.00	0.00	1.74	21.6	65.6	127	208	272	282	228	150	81.3	34.2	3.99	0.00	0.00	0.00	---	1476

one-half-peak spread: U:12.0,D:13.2 , L:12.1,R:11.4

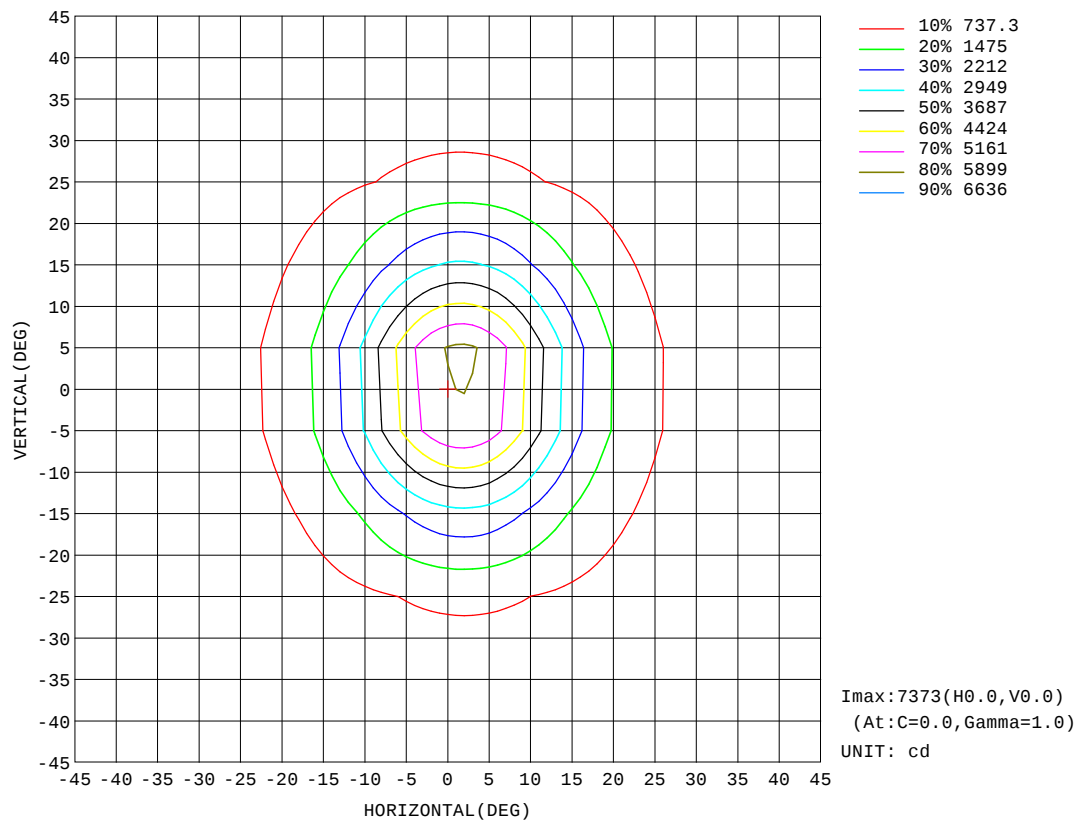
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.2V I:0.2979A P:41.66W PF:0.6321 Lamp Flux:2061.81x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080108
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

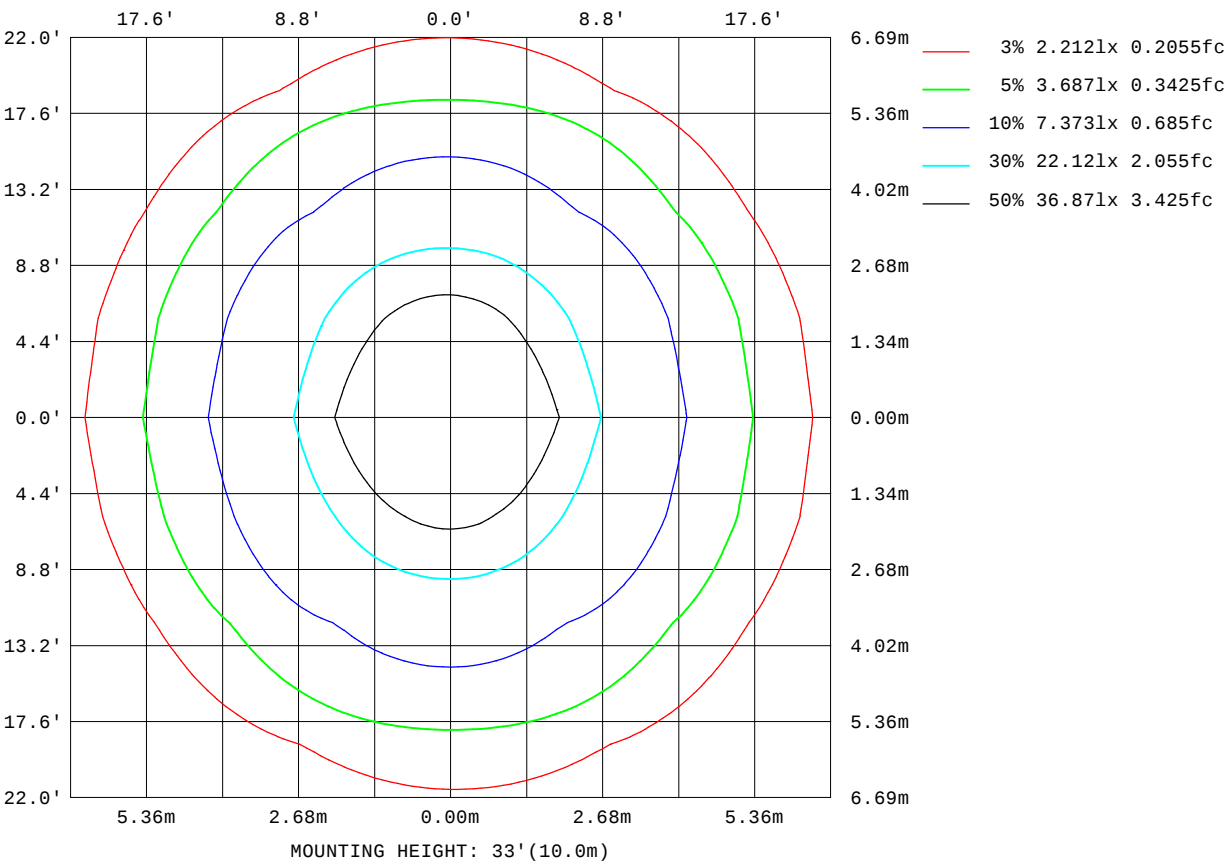


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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024080108
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

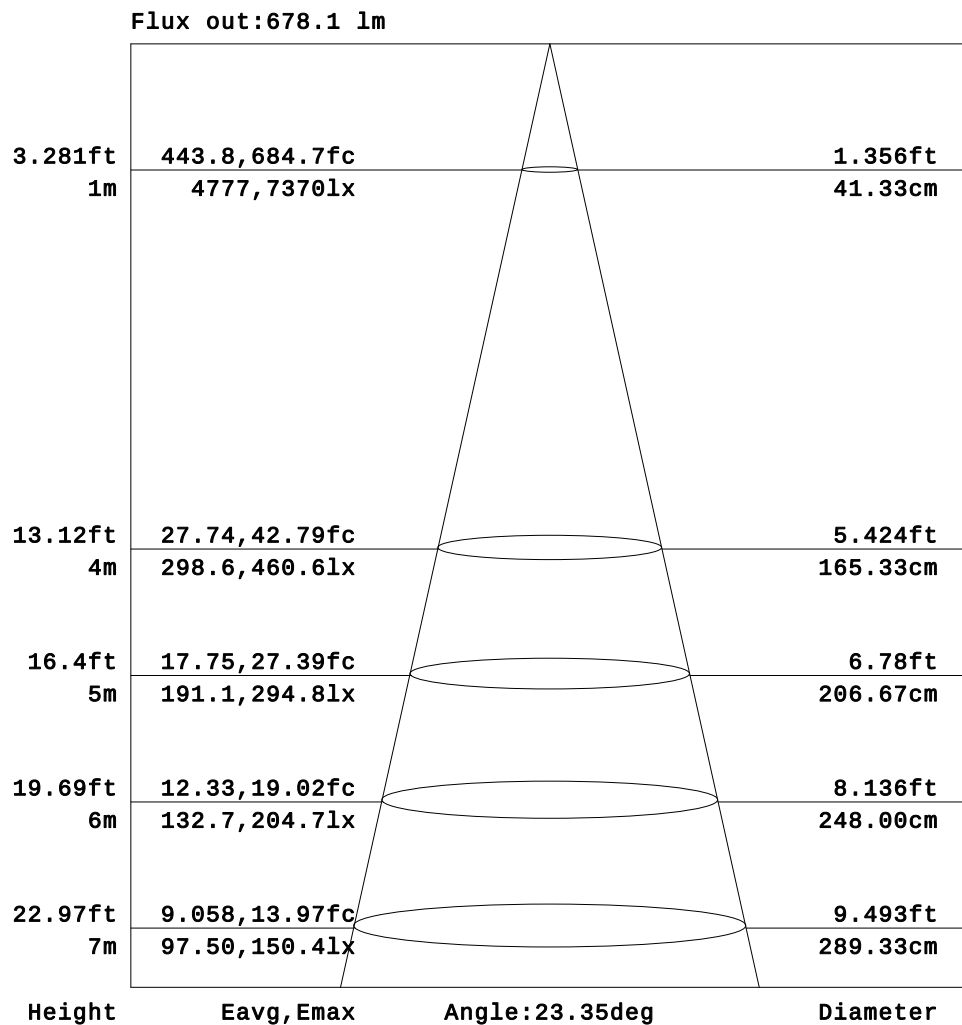


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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DIM.:	SPEC.:	SERIAL No.:2024080108
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

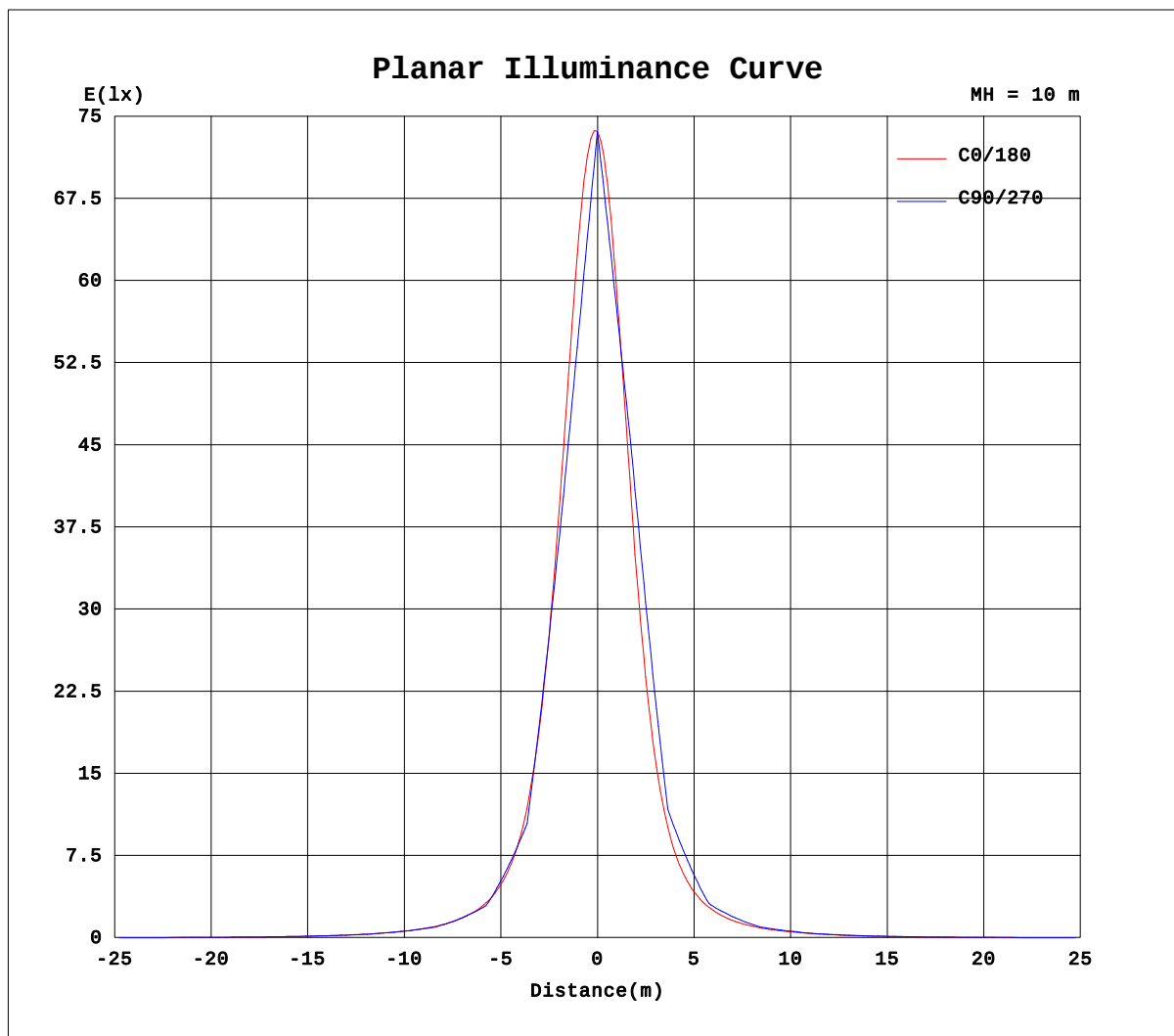


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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H(β) Interval: 1.0DEG
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Operators:QC1
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V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



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V(B) Range:-80 - 80DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2024080108
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	2.71	4.12	5.28	6.31	7.02	7.63	8.21	8.62
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23	6.66	9.16	11.5	13.2	14.5	15.7	16.8	17.4
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	5.08	9.89	15.2	21.1	25.8	30.0	33.7	36.6	39.2	41.3	42.7
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.09	13.9	23.6	32.3	39.5	45.9	51.7	56.6	60.8	64.5	67.1	68.4
-55	0.00	0.00	0.00	0.00	0.00	0.00	2.64	10.1	20.9	32.1	42.7	52.7	61.7	70.0	77.5	84.1	90.0	94.5	97.2
-50	0.00	0.00	0.00	0.00	0.00	0.01	10.1	23.8	36.8	49.3	61.3	73.3	84.3	94.5	104	112	119	124	127
-45	0.00	0.00	0.00	0.00	0.00	1.97	12.6	27.2	42.1	56.9	71.7	86.5	101	116	130	145	158	168	173
-40	0.00	0.00	0.00	0.00	0.00	9.93	26.6	42.6	59.1	76.5	93.8	111	130	149	169	188	205	216	221
-35	0.00	0.00	0.00	0.00	0.00	8.63	26.1	43.8	62.3	81.9	103	125	151	180	214	250	286	317	335
-30	0.00	0.00	0.00	0.00	2.95	20.9	39.8	59.5	80.9	104	128	158	195	238	287	342	394	435	452
-25	0.00	0.00	0.00	0.00	1.52	17.6	37.6	58.5	81.7	107	136	171	219	283	369	483	622	765	851
-20	0.00	0.00	0.00	0.00	9.65	30.2	51.7	75.4	102	132	169	219	288	390	534	731	969	1182	1264
-15	0.00	0.00	0.00	0.00	4.28	24.1	45.9	69.7	97.2	128	168	222	301	428	639	1004	1582	2255	2708
-10	0.00	0.00	0.00	0.00	13.3	35.1	58.5	85.2	116	153	206	280	400	607	992	1701	2738	3785	4238
-5	0.00	0.00	0.00	0.00	6.38	27.5	50.3	76.0	106	141	189	258	370	565	944	1694	2997	4637	5724
0	0.00	0.00	0.00	0.00	15.3	37.8	61.7	89.8	122	164	221	311	469	767	1380	2609	4594	6613	7373
5	0.00	0.00	0.00	0.00	6.56	27.7	50.5	76.1	106	142	191	261	376	579	974	1756	3120	4835	5944
10	0.00	0.00	0.00	0.00	13.5	35.4	58.7	85.4	117	155	209	288	416	644	1072	1865	3048	4217	4654
15	0.00	0.00	0.00	0.00	4.89	24.7	46.5	70.2	97.8	130	172	229	313	453	691	1102	1760	2523	3006
20	0.00	0.00	0.00	0.00	10.4	31.1	52.6	75.9	103	135	175	229	304	420	588	818	1094	1332	1418
25	0.00	0.00	0.00	0.00	1.96	18.9	39.3	60.0	83.0	109	140	178	230	301	398	530	693	851	944
30	0.00	0.00	0.00	0.00	5.26	22.9	42.2	61.7	82.7	107	134	166	206	252	307	367	425	468	481
35	0.00	0.00	0.00	0.00	0.01	11.6	29.2	47.3	65.4	84.6	106	129	157	189	225	265	304	336	352
40	0.00	0.00	0.00	0.00	0.13	13.7	30.9	47.3	63.0	78.9	95.8	114	134	154	175	194	211	222	225
45	0.00	0.00	0.00	0.00	0.00	4.07	17.5	32.3	47.1	60.8	74.5	88.1	102	117	132	146	159	168	173
50	0.00	0.00	0.00	0.00	0.00	4.35	15.8	29.4	42.4	53.7	64.0	73.1	82.2	91.4	100	109	115	120	121
55	0.00	0.00	0.00	0.00	0.00	0.05	5.55	15.9	26.7	36.5	46.1	54.1	61.3	67.9	74.1	79.8	84.9	88.7	90.5
60	0.00	0.00	0.00	0.00	0.00	0.00	2.52	11.4	19.1	27.3	34.9	41.1	45.8	49.6	52.6	55.4	58.0	59.8	60.3
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.97	8.04	12.2	18.3	23.6	27.6	30.2	32.3	33.9	35.7	37.3	38.2
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.21	6.17	9.74	11.7	12.7	13.2	13.7	14.7	15.7	16.1
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	2.28	4.21	5.55	6.17	6.53	6.73	7.14	7.69	8.04
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	8.66	8.37	7.84	7.30	6.73	5.91	4.75	3.35	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	17.2	16.4	15.2	14.2	12.9	10.9	8.48	5.28	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-65	42.9	42.1	40.3	37.9	35.1	31.6	27.3	22.4	16.4	10.4	5.44	1.11	0.00	0.00	0.00	0.00	0.00	0.00	
-60	68.2	66.6	63.6	59.5	54.7	48.9	42.3	35.0	26.5	16.8	7.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-55	97.8	96.1	92.4	87.0	80.6	73.2	64.8	55.3	44.6	33.4	21.6	10.2	2.37	0.00	0.00	0.00	0.00	0.00	
-50	127	123	117	110	101	91.0	79.8	67.4	54.0	40.5	26.7	12.5	0.48	0.00	0.00	0.00	0.00	0.00	
-45	174	169	160	148	134	120	105	90.1	74.5	58.6	42.4	26.3	10.9	0.72	0.00	0.00	0.00	0.00	
-40	219	209	194	175	156	137	118	101	82.4	63.7	45.1	27.4	10.1	0.00	0.00	0.00	0.00	0.00	
-35	335	318	288	251	214	182	153	127	105	83.5	62.7	42.2	23.2	5.52	0.00	0.00	0.00	0.00	
-30	441	404	353	296	246	202	166	136	110	86.7	63.2	41.7	21.5	2.91	0.00	0.00	0.00	0.00	
-25	839	737	598	464	356	276	216	170	134	106	80.5	56.0	33.7	12.7	0.00	0.00	0.00	0.00	
-20	1173	961	732	539	396	297	226	174	135	105	77.5	52.1	29.0	7.77	0.00	0.00	0.00	0.00	
-15	2641	2077	1413	905	588	402	288	213	161	124	94.0	66.2	41.3	18.3	0.45	0.00	0.00	0.00	
-10	3717	2648	1638	977	606	403	282	207	156	118	87.6	59.8	34.9	11.9	0.00	0.00	0.00	0.00	
-5	5504	4101	2526	1423	811	505	340	242	179	134	101	71.3	45.2	21.2	1.06	0.00	0.00	0.00	
0	6337	4240	2393	1270	721	451	307	220	163	122	90.0	61.2	35.9	12.5	0.00	0.00	0.00	0.00	
5	5679	4214	2590	1447	818	506	340	241	178	134	100	70.8	44.9	21.2	1.08	0.00	0.00	0.00	
10	4051	2834	1727	1007	614	404	281	206	155	118	86.5	59.0	34.6	11.7	0.00	0.00	0.00	0.00	
15	2885	2241	1503	939	597	402	286	211	160	123	92.2	64.8	40.7	18.2	0.47	0.00	0.00	0.00	
20	1299	1043	770	550	397	294	223	172	133	102	75.1	50.8	28.6	7.67	0.00	0.00	0.00	0.00	
25	921	795	627	474	357	273	212	167	131	103	77.7	54.6	33.4	12.6	0.01	0.00	0.00	0.00	
30	462	416	357	295	243	199	162	132	107	82.9	61.2	41.1	21.4	3.34	0.00	0.00	0.00	0.00	
35	348	325	289	248	210	177	148	123	100	80.0	60.7	42.0	23.6	6.07	0.00	0.00	0.00	0.00	
40	219	207	190	170	150	131	112	94.5	77.6	61.3	45.0	28.3	10.8	0.00	0.00	0.00	0.00	0.00	
45	171	165	154	141	126	112	98.0	84.3	70.6	56.8	42.6	27.3	12.3	1.24	0.00	0.00	0.00	0.00	
50	119	114	108	99.7	90.9	81.8	72.7	63.2	52.7	41.1	28.1	14.2	2.44	0.00	0.00	0.00	0.00	0.00	
55	90.1	87.7	83.6	78.4	72.6	66.2	59.4	52.1	43.4	33.5	23.4	12.2	3.47	0.00	0.00	0.00	0.00	0.00	
60	59.7	58.0	55.4	52.7	49.4	45.4	40.4	34.4	26.4	17.8	9.95	1.33	0.00	0.00	0.00	0.00	0.00	0.00	
65	38.0	36.9	35.4	33.7	32.0	29.7	26.7	22.4	16.9	10.6	6.57	2.43	0.00	0.00	0.00	0.00	0.00	0.00	
70	15.6	14.7	14.0	13.5	12.9	11.8	9.78	6.33	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
75	7.94	7.53	7.12	6.85	6.60	6.17	5.39	3.88	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80	0.00	0.00	0.00	0.00	0.00	0.00	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	
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:2024-08-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: