

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

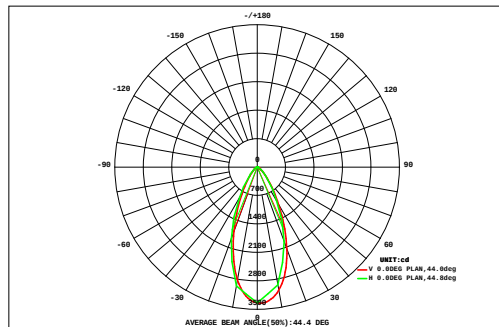
Maximum Intensity (Luminaire orientation as tested.)		1447.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	82.5V x 81.5H
	At 50% of Imax	44.9V x 44.0H
	At 90% of Imax	18.2V x 18.6H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	866.6 lumens per klm.
	To 50% of Imax	482.5 lumens per klm.
	To 90% of Imax	91.8 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:2024-08-29

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:220.9V I:0.3324A P:47.03W PF:0.6406 Lamp Flux:2311.47x1 lm		
NAME: 8.03.007.0161 45° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080130
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:49.15lm/W	
MODELSP-DKP-F170-24P-RDM	Imax(cd)	3347	
NOMINAL POWER(W)	48	AVAILABILITY(%)	87.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2013
NOMINAL FLUX(lm)	2311.47	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2311
TEST VOLTAGE(V)	220.8	θ @50%(H,V)	44,45DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm			Φ t	Φ a
	72	0.00	0.00	0.01	0.02	0.11	0.25	0.37	0.44	0.51	0.54	0.53	0.51	0.44	0.30	0.15	0.03	0.00	0.00	4.22	0.00
	64	0.00	0.00	0.09	0.33	0.60	0.87	1.09	1.29	1.45	1.50	1.42	1.27	1.10	0.84	0.54	0.27	0.05	0.00	12.7	0.00
	56	0.00	0.05	0.27	0.63	1.05	1.52	2.04	2.56	2.92	3.02	2.83	2.43	1.91	1.40	0.93	0.52	0.19	0.02	24.3	0.00
	48	0.00	0.13	0.48	0.96	1.61	2.46	3.52	4.62	5.47	5.72	5.29	4.35	3.22	2.18	1.36	0.75	0.32	0.06	42.5	6.30
	40	0.02	0.26	0.69	1.36	2.42	4.00	6.10	8.50	10.4	11.0	9.95	7.74	5.30	3.27	1.85	0.96	0.42	0.10	74.4	51.0
	32	0.05	0.35	0.90	1.84	3.51	6.27	10.6	15.7	20.0	21.2	18.7	13.8	8.64	4.82	2.55	1.26	0.55	0.16	131	115
	24	0.08	0.43	1.09	2.33	4.74	9.51	17.5	27.4	35.5	38.1	33.3	23.5	13.8	7.03	3.38	1.57	0.67	0.20	220	207
		0.09	0.47	1.20	2.66	5.73	12.3	23.8	38.5	50.0	53.7	47.8	33.9	19.3	9.33	4.16	1.83	0.77	0.24	306	294
		0.10	0.50	1.28	2.88	6.46	14.4	28.5	46.6	60.0	63.3	56.1	40.0	22.5	10.6	4.55	1.95	0.80	0.25	361	349
		0.12	0.53	1.33	2.99	6.84	15.3	30.2	48.8	61.8	63.5	54.9	38.6	21.5	10.0	4.29	1.84	0.75	0.23	364	352
		0.10	0.48	1.21	2.68	5.84	12.7	24.8	40.7	52.7	54.4	46.4	32.3	18.3	8.79	3.88	1.72	0.72	0.22	308	296
	-24	0.07	0.41	1.02	2.13	4.34	8.78	16.3	26.0	34.2	36.2	31.2	22.1	13.0	6.68	3.21	1.50	0.65	0.20	208	195
	-32	0.04	0.33	0.85	1.67	3.11	5.70	9.84	15.0	19.4	20.6	18.1	13.3	8.29	4.60	2.44	1.25	0.57	0.17	125	108
	-40	0.02	0.25	0.69	1.29	2.17	3.48	5.30	7.37	9.00	9.49	8.54	6.62	4.55	2.85	1.73	0.98	0.45	0.12	64.9	39.1
	-48	0.01	0.17	0.52	0.98	1.51	2.11	2.79	3.45	3.92	4.05	3.73	3.12	2.42	1.75	1.19	0.70	0.32	0.06	32.8	0.00
-56	0.00	0.05	0.29	0.61	0.96	1.30	1.57	1.83	2.03	2.09	2.00	1.78	1.51	1.18	0.81	0.48	0.19	0.02	18.7	0.00	
-64	0.00	0.00	0.07	0.27	0.51	0.73	0.89	1.00	1.11	1.15	1.11	1.03	0.90	0.69	0.47	0.24	0.07	0.01	10.3	0.00	
-72	0.00	0.00	0.01	0.05	0.12	0.22	0.30	0.34	0.38	0.40	0.40	0.39	0.35	0.26	0.15	0.06	0.02	0.00	3.43	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72	
Φ t	0.70	4.42	12.0	25.7	51.6	102	185	290	371	390	342	247	147	76.6	37.6	17.9	7.52	2.06	2310	---	
Φ a	0.00	0.00	0.00	0.00	21.9	80.2	166	273	354	374	327	228	127	54.5	6.69	0.00	0.00	0.00	---	2013	

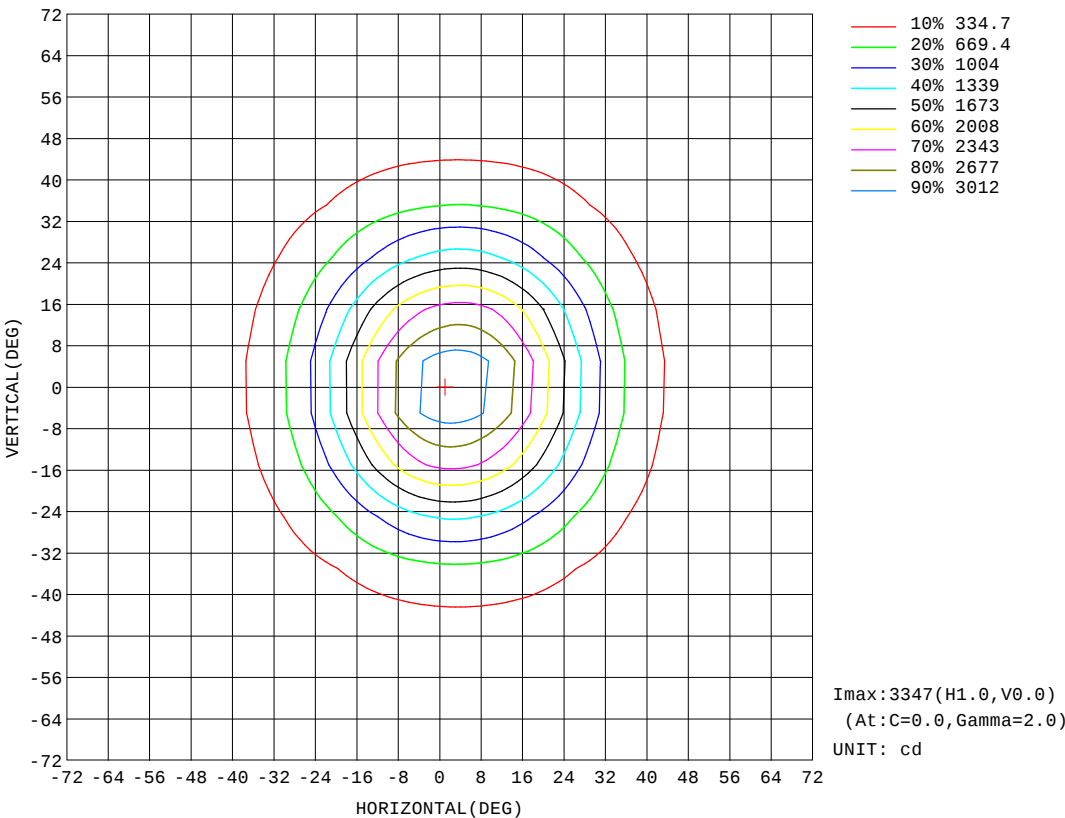
one-half-peak spread: U:22.2,D:23.1 , L:21.2,R:23.1 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

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:220.9V I:0.3324A P:47.03W PF:0.6406 Lamp Flux:2311.47x1 lm		
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DIM.:	SPEC.:	SERIAL No.:2024080130
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

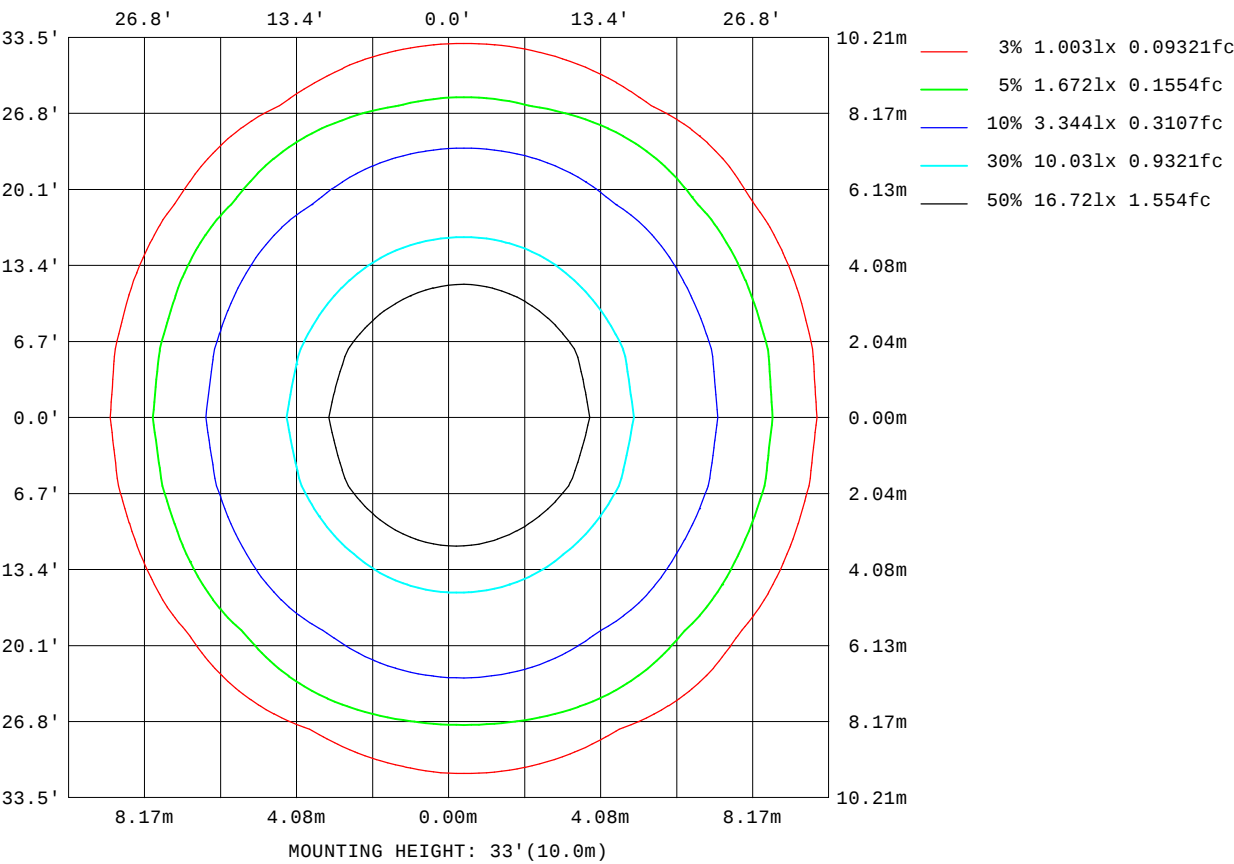


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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024080130
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

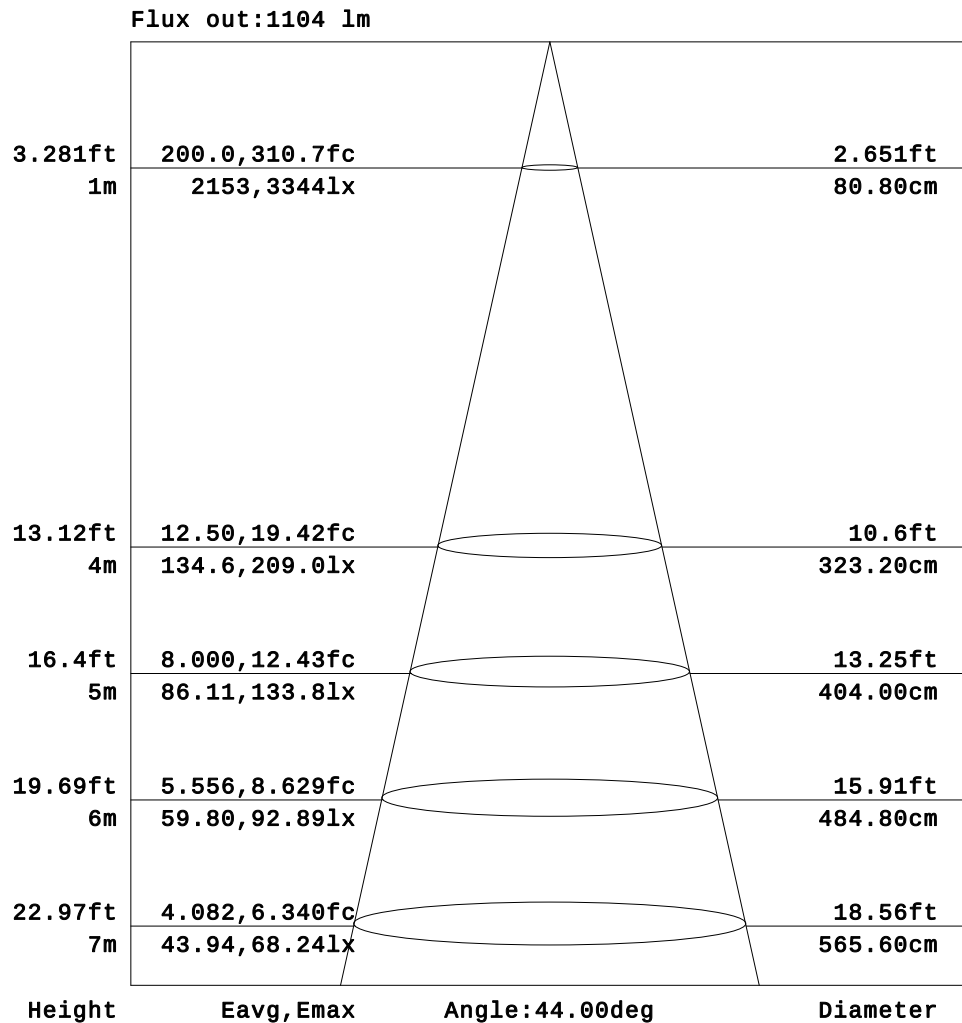


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

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AAI Figure

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DIM.:	SPEC.:	SERIAL No.:2024080130
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

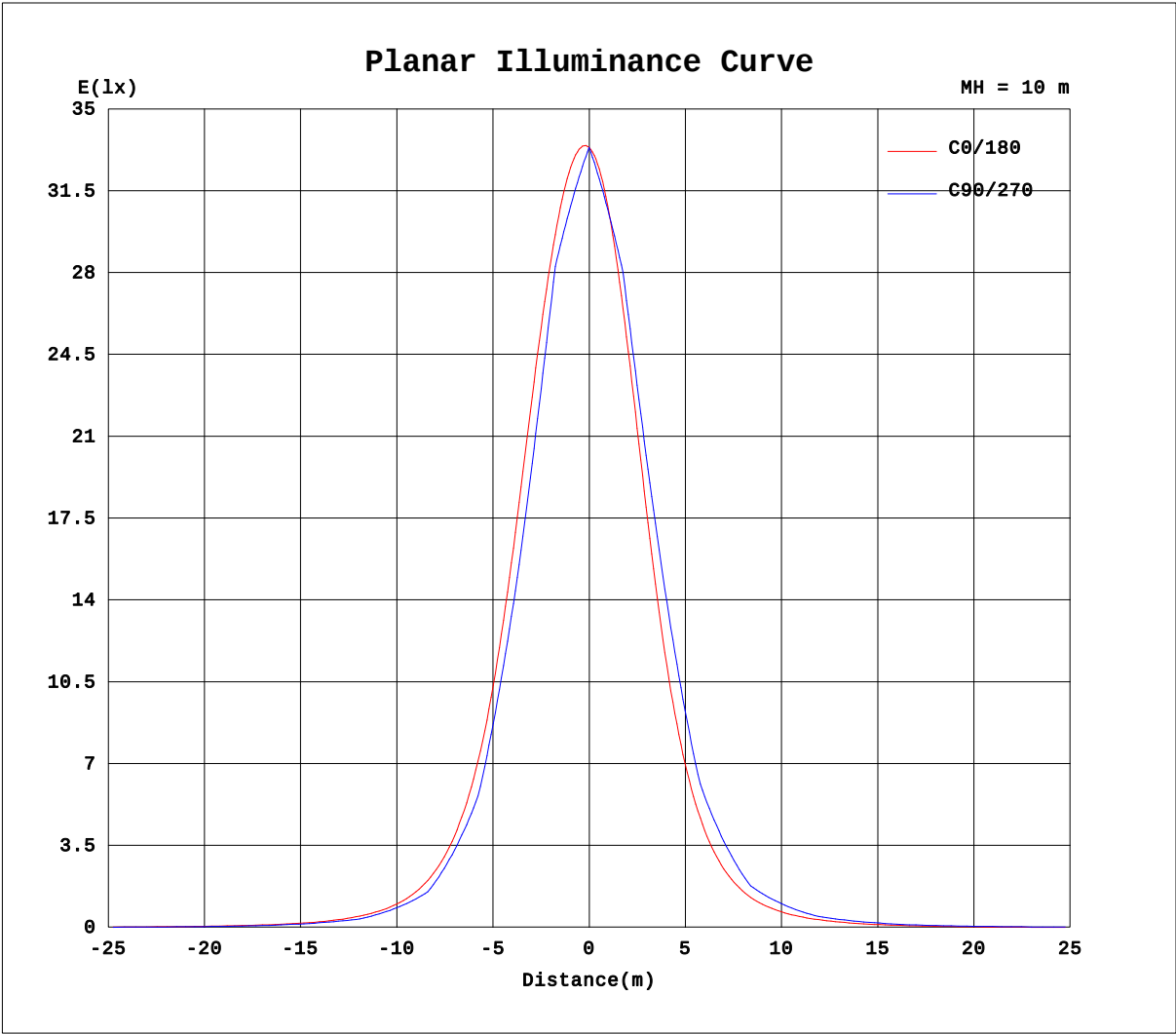


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	0.00	1.03	2.42	3.58	4.48	5.06	5.51	6.05	6.55
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	5.32	7.58	9.24	10.3	11.2	12.3	13.3
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	4.41	8.55	12.9	17.7	22.5	26.4	29.0	30.6	32.3	34.4	35.9
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.47	10.4	18.9	27.3	34.8	41.4	46.6	49.5	51.4	54.2	57.1	59.0
-55	0.00	0.00	0.00	0.00	0.00	0.00	2.42	9.46	20.4	31.1	41.8	52.0	61.3	69.3	76.0	82.2	88.8	94.8	98.5
-50	0.00	0.00	0.00	0.00	0.00	0.00	7.31	20.9	34.6	47.7	60.5	73.0	84.5	94.9	105	116	126	134	139
-45	0.00	0.00	0.00	0.00	0.00	1.15	12.1	27.6	43.7	60.0	76.3	93.5	112	133	156	181	205	224	238
-40	0.00	0.00	0.00	0.00	0.00	5.52	23.0	40.7	59.3	78.8	98.9	121	148	180	217	256	292	321	340
-35	0.00	0.00	0.00	0.00	0.00	6.70	24.9	44.2	65.4	88.5	116	151	197	256	329	411	491	558	600
-30	0.00	0.00	0.00	0.00	0.01	14.9	34.4	55.9	80.4	108	145	197	267	359	473	599	720	816	868
-25	0.00	0.00	0.00	0.00	0.36	14.8	34.9	57.8	85.2	119	166	235	338	479	661	872	1086	1262	1363
-20	0.00	0.00	0.00	0.00	3.13	22.4	44.0	69.9	102	146	211	309	458	666	930	1232	1531	1762	1875
-15	0.00	0.00	0.00	0.00	1.44	20.3	42.2	69.1	103	151	223	334	511	767	1106	1511	1920	2243	2407
-10	0.00	0.00	0.00	0.00	5.88	26.4	50.3	80.5	120	181	272	419	654	991	1436	1958	2459	2818	2964
-5	0.00	0.00	0.00	0.00	2.97	23.4	47.0	76.8	116	174	263	409	644	989	1454	2005	2544	2946	3139
0	0.00	0.00	0.00	0.00	7.68	29.0	54.5	86.8	131	197	301	478	755	1155	1682	2278	2817	3187	3341
5	0.00	0.00	0.00	0.00	3.08	23.7	47.6	77.8	118	178	267	415	652	998	1462	2005	2531	2921	3124
10	0.00	0.00	0.00	0.00	6.19	27.1	51.7	82.9	125	188	281	432	669	1009	1450	1955	2429	2765	2944
15	0.00	0.00	0.00	0.00	1.59	20.9	43.5	71.4	108	160	235	349	531	792	1135	1534	1932	2244	2428
20	0.00	0.00	0.00	0.00	3.38	23.0	45.4	72.8	108	158	226	329	485	700	973	1280	1580	1817	1954
25	0.00	0.00	0.00	0.00	0.40	15.1	35.2	58.8	88.2	127	180	255	364	512	703	921	1140	1323	1438
30	0.00	0.00	0.00	0.00	0.01	15.0	33.8	55.5	81.8	116	161	219	295	394	516	651	782	887	948
35	0.00	0.00	0.00	0.00	0.00	6.95	24.2	43.2	64.9	91.2	124	167	221	288	369	458	547	621	668
40	0.00	0.00	0.00	0.00	0.00	5.63	21.8	39.0	57.6	78.9	104	135	171	212	255	300	346	379	397
45	0.00	0.00	0.00	0.00	0.00	1.30	11.6	26.9	43.1	60.9	80.1	102	127	155	186	217	248	272	286
50	0.00	0.00	0.00	0.00	0.00	0.00	7.11	21.1	35.5	50.2	64.6	79.1	93.8	110	129	146	161	172	178
55	0.00	0.00	0.00	0.00	0.00	0.00	2.25	9.47	21.2	33.6	45.6	57.4	68.9	80.4	92.0	103	114	122	127
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	11.9	21.9	31.4	40.4	48.6	55.0	59.9	65.0	70.4	74.6	76.9
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	4.89	9.98	14.9	21.4	27.7	33.0	36.9	40.2	43.6	46.6	48.6
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	5.03	9.11	12.8	15.2	16.8	18.2	19.7	20.8
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	2.12	4.14	6.08	7.41	8.26	8.94	9.70	10.3
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(°) \ 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	0.00	0.00	0.00	0.00	0.00	0.00	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	6.82	6.89	7.01	7.08	6.88	6.24	5.19	3.94	2.46	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	13.7	13.8	14.1	14.2	13.6	12.1	9.91	7.33	4.25	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	36.5	36.2	35.5	35.0	34.1	31.7	27.9	23.5	18.6	12.6	7.61	3.39	0.00	0.00	0.00	0.00	0.00	0.00
-60	59.4	58.3	56.7	55.7	53.8	49.9	44.2	37.8	30.7	22.2	13.5	5.16	0.00	0.00	0.00	0.00	0.00	0.00
-55	99.6	97.8	93.7	88.5	82.7	75.8	67.4	58.1	48.2	37.6	26.9	15.8	5.33	0.01	0.00	0.00	0.00	0.00
-50	140	136	129	119	109	98.5	86.9	74.5	61.6	48.8	35.9	22.0	8.04	0.00	0.00	0.00	0.00	0.00
-45	240	233	216	194	169	145	121	101	82.8	65.7	49.3	33.0	17.0	3.12	0.00	0.00	0.00	0.00
-40	340	324	295	258	219	182	147	120	97.0	76.1	56.1	37.6	19.7	3.40	0.00	0.00	0.00	0.00
-35	605	575	516	439	357	280	214	164	126	95.6	70.6	48.4	28.6	10.2	0.00	0.00	0.00	0.00
-30	864	807	708	586	462	350	258	190	141	105	75.9	51.0	30.0	10.5	0.00	0.00	0.00	0.00
-25	1367	1279	1117	914	705	517	365	256	181	128	90.7	61.4	37.6	17.0	0.59	0.00	0.00	0.00
-20	1849	1696	1450	1158	868	617	423	287	197	135	93.0	61.5	36.6	15.6	0.01	0.00	0.00	0.00
-15	2399	2237	1945	1569	1178	830	558	367	241	161	110	72.8	44.4	21.9	2.34	0.00	0.00	0.00
-10	2907	2680	2300	1821	1337	920	604	387	248	164	110	71.6	42.4	19.7	0.86	0.00	0.00	0.00
-5	3126	2934	2576	2085	1549	1071	702	446	284	185	122	80.1	48.6	24.5	3.67	0.00	0.00	0.00
0	3296	3072	2674	2134	1554	1054	681	428	272	177	115	74.8	44.1	20.5	1.02	0.00	0.00	0.00
5	3147	2985	2637	2137	1584	1092	716	455	289	189	124	81.1	49.2	24.7	3.68	0.00	0.00	0.00
10	2964	2790	2419	1919	1402	960	628	402	258	170	113	73.4	43.4	20.1	0.86	0.00	0.00	0.00
15	2472	2351	2069	1673	1252	879	590	387	254	170	114	75.0	45.5	22.2	2.35	0.00	0.00	0.00
20	1960	1824	1572	1257	941	668	457	309	211	143	97.1	63.7	37.3	15.9	0.01	0.00	0.00	0.00
25	1463	1385	1221	1003	774	568	401	280	196	136	94.0	62.6	37.7	17.0	0.58	0.00	0.00	0.00
30	951	893	788	656	519	393	289	212	154	110	77.2	50.8	29.2	10.3	0.00	0.00	0.00	0.00
35	677	647	584	499	407	320	244	183	136	99.6	70.9	47.4	27.5	9.62	0.00	0.00	0.00	0.00
40	398	380	348	306	260	215	172	134	102	76.7	54.5	35.5	18.4	2.37	0.00	0.00	0.00	0.00
45	289	280	260	233	202	171	141	114	89.5	68.3	48.9	31.6	15.7	2.63	0.00	0.00	0.00	0.00
50	178	173	163	149	132	115	98.7	83.4	67.8	51.9	36.1	21.2	6.75	0.00	0.00	0.00	0.00	0.00
55	128	125	119	111	101	90.4	78.9	67.0	54.3	41.4	28.1	15.0	4.78	0.00	0.00	0.00	0.00	0.00
60	77.4	75.7	72.5	69.1	66.1	61.4	54.4	45.6	35.7	25.6	14.7	4.00	0.00	0.00	0.00	0.00	0.00	0.00
65	49.3	48.8	47.4	45.8	44.1	41.0	36.1	29.6	22.3	14.9	8.48	2.97	0.00	0.00	0.00	0.00	0.00	0.00
70	21.3	21.4	21.7	21.9	21.2	19.0	15.4	10.9	5.98	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	10.6	10.7	10.8	11.0	10.7	9.80	8.12	5.91	3.48	1.04	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:2024-08-29

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: