

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

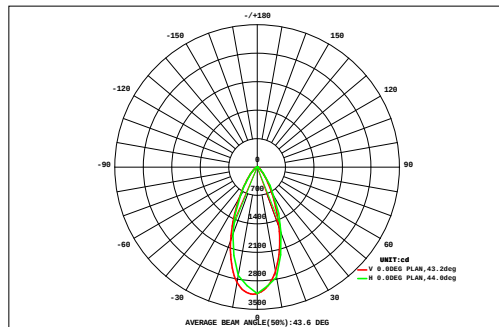
Maximum Intensity (Luminaire orientation as tested.)		1502.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	80.8V x 80.2H
	At 50% of Imax	43.9V x 43.2H
	At 90% of Imax	17.2V x 18.1H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	866.7 lumens per klm.
	To 50% of Imax	477.5 lumens per klm.
	To 90% of Imax	86.4 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:221.6V I:0.2959A P:41.49W PF:0.6329 Lamp Flux:2080.72x1 lm		
NAME: 8.03.007.0161 45° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080109
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:50.15lm/W	
MODELSP-DKP-F170-24P-RDM		Imax(cd)	3126
NOMINAL POWER(W)	42	AVAILABILITY(%)	87.0
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	1809
NOMINAL FLUX(lm)	2080.72	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2081
TEST VOLTAGE(V)	221.6	θ @50%(H,V)	43,44DEG

		AREA FLUX DIAGRAM														UNIT:lm				Φ t	Φ a
		0.00	0.00	0.01	0.04	0.12	0.20	0.25	0.27	0.28	0.27	0.24	0.21	0.14	0.05	0.02	0.01	0.00	0.00	2.09	0.00
VERTICAL (DEG)	72	0.00	0.01	0.15	0.36	0.58	0.78	0.90	0.99	1.06	1.04	0.95	0.87	0.70	0.48	0.25	0.06	0.00	0.00	9.19	0.00
	64	0.00	0.09	0.34	0.67	1.04	1.39	1.73	2.02	2.19	2.17	1.95	1.65	1.31	0.94	0.57	0.26	0.05	0.00	18.4	0.00
	56	0.01	0.20	0.55	1.01	1.59	2.30	3.11	3.88	4.34	4.29	3.76	2.96	2.15	1.46	0.90	0.47	0.14	0.00	33.1	0.00
	48	0.05	0.32	0.77	1.43	2.42	3.87	5.75	7.62	8.77	8.63	7.27	5.31	3.45	2.11	1.23	0.63	0.22	0.01	59.8	34.1
	40	0.09	0.40	0.96	1.93	3.65	6.50	10.6	14.9	17.6	17.2	14.0	9.55	5.65	3.08	1.61	0.79	0.30	0.04	109	93.1
	32	0.11	0.47	1.16	2.50	5.20	10.4	18.2	26.9	32.6	32.0	25.3	16.4	8.97	4.43	2.10	0.96	0.37	0.06	188	176
	24	0.13	0.52	1.30	2.96	6.61	14.1	26.1	39.5	48.0	47.7	38.2	24.3	12.8	5.92	2.61	1.15	0.44	0.09	272	261
	-24	0.14	0.56	1.42	3.31	7.73	17.0	32.1	48.7	58.3	57.4	46.2	29.4	15.2	6.83	2.90	1.24	0.48	0.10	329	319
		0.16	0.60	1.50	3.54	8.39	18.5	34.6	51.2	59.6	57.1	45.5	28.8	14.8	6.60	2.81	1.19	0.45	0.09	335	325
		0.14	0.55	1.37	3.17	7.22	15.6	29.0	43.4	50.5	48.0	38.2	24.5	12.9	5.95	2.60	1.14	0.43	0.08	285	274
		0.11	0.47	1.15	2.50	5.29	10.7	19.1	28.4	33.9	32.8	26.1	17.2	9.51	4.70	2.21	1.00	0.39	0.07	196	183
		-32	0.07	0.38	0.92	1.89	3.69	6.83	11.4	16.4	19.5	19.1	15.5	10.6	6.26	3.38	1.74	0.85	0.33	0.05	119
-40		0.05	0.30	0.73	1.40	2.45	4.01	6.02	7.97	9.18	9.03	7.57	5.53	3.62	2.21	1.28	0.66	0.25	0.02	62.3	39.6
-48	0.02	0.22	0.57	1.02	1.59	2.30	3.06	3.69	4.03	3.93	3.44	2.76	2.03	1.41	0.90	0.47	0.14	0.00	31.6	0.00	
-56	0.00	0.10	0.36	0.67	1.00	1.31	1.62	1.89	2.04	2.03	1.85	1.59	1.31	0.97	0.61	0.29	0.06	0.00	17.7	0.00	
-64	0.00	0.01	0.14	0.35	0.57	0.78	0.91	1.02	1.11	1.10	1.02	0.92	0.77	0.55	0.31	0.10	0.02	0.00	9.67	0.00	
-72	0.00	0.00	0.02	0.08	0.18	0.28	0.33	0.35	0.37	0.37	0.34	0.32	0.26	0.16	0.07	0.02	0.00	0.00	3.15	0.00	
		-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72
Φ t	1.10	5.23	13.4	28.8	59.3	117	205	299	353	344	277	183	102	51.2	24.7	11.3	4.07	0.62	2080	---	
Φ a	0.00	0.00	0.00	1.79	36.4	98.4	188	283	338	329	261	166	82.7	25.6	0.00	0.00	0.00	0.00	---	1809	

one-half-peak spread: U:22.4,D:21.8 , L:21.3,R:22.2

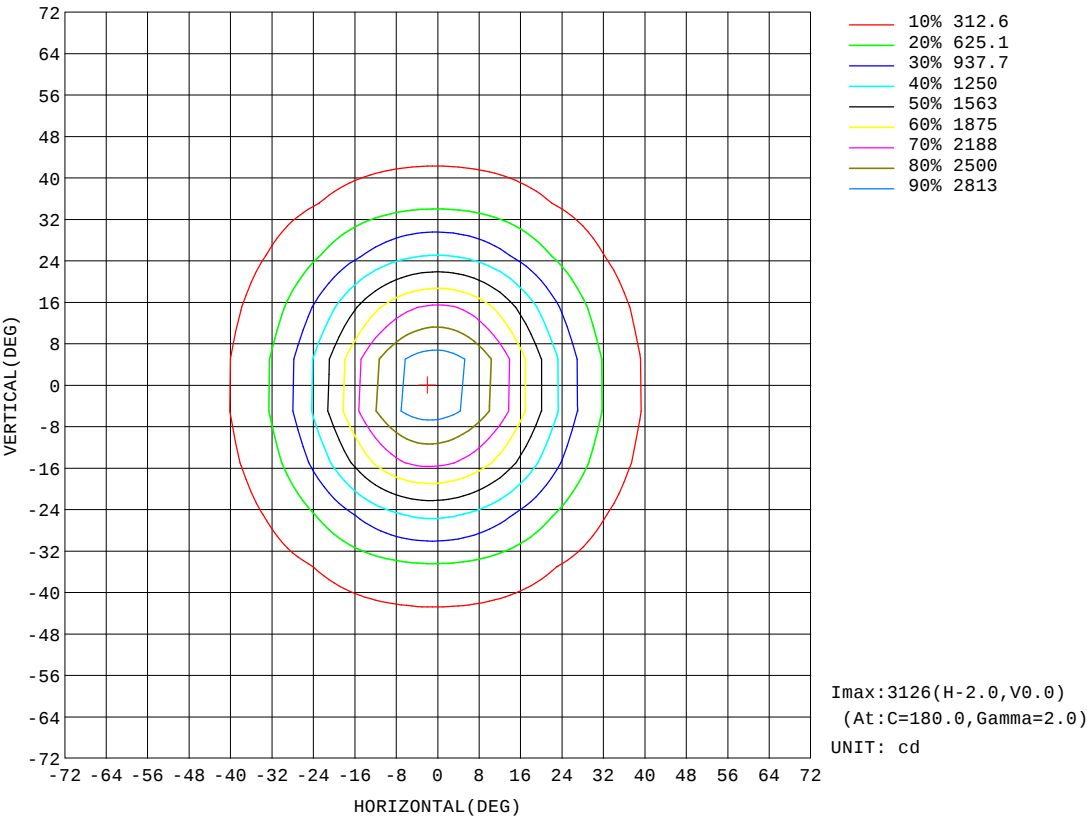
NEMA Beam Type: Type 5

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

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

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DIM.:	SPEC.:	SERIAL No.:2024080109
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

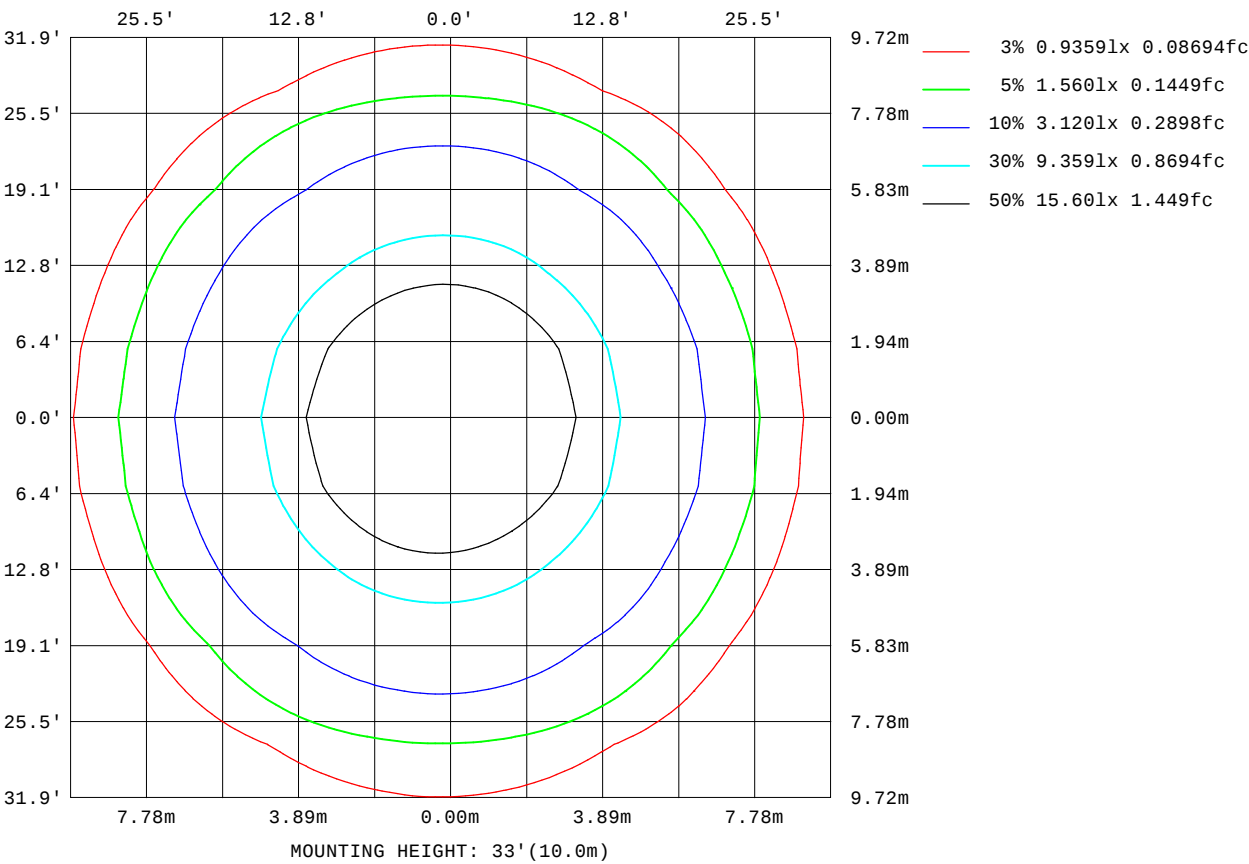


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Humidity:83%
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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024080109
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

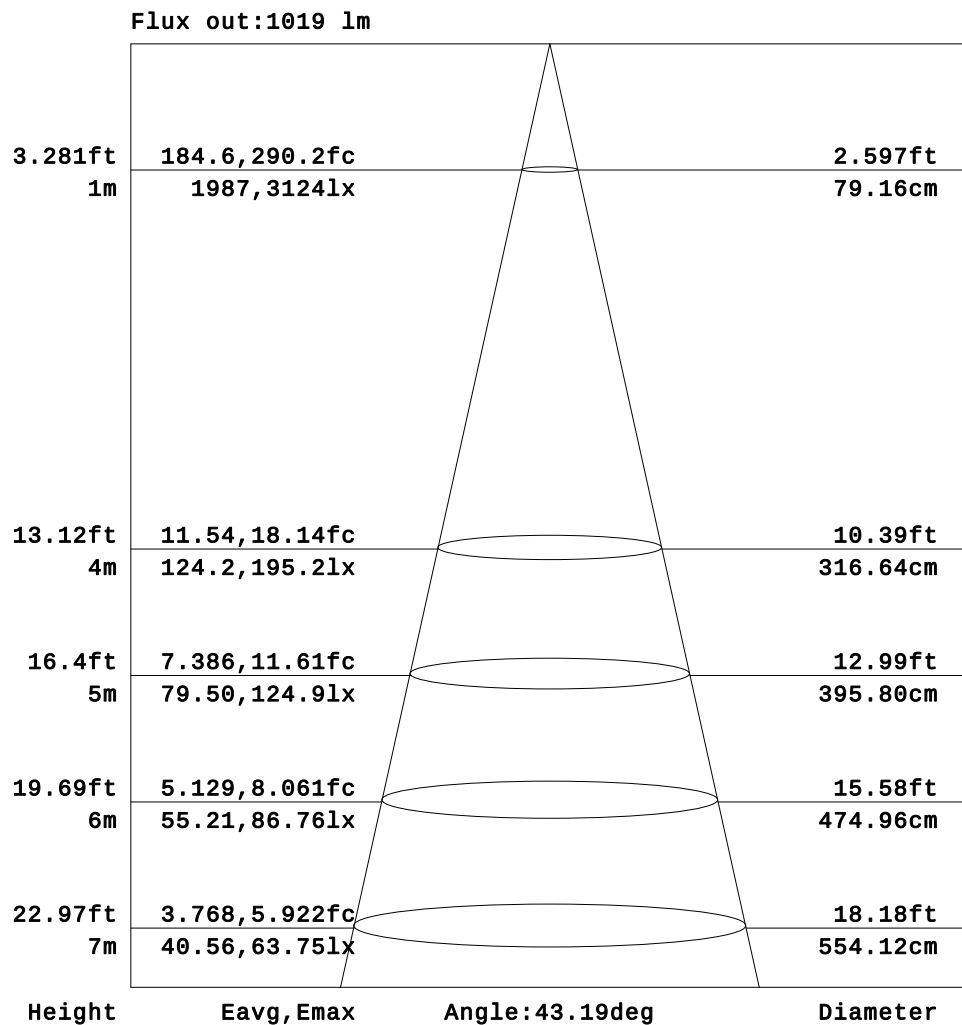


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-23

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.:2024080109
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

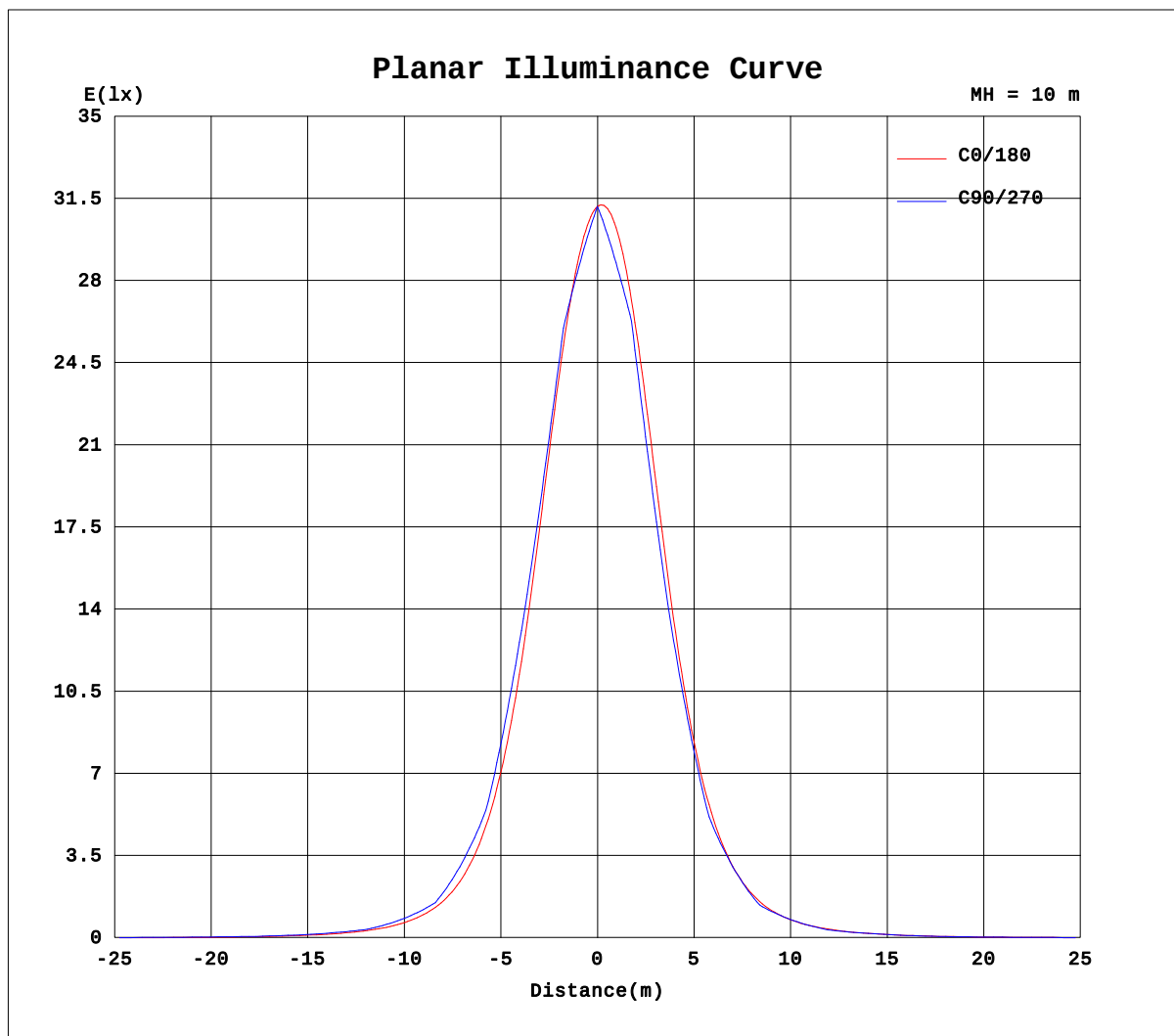


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 8.03.007.0161 45° SP-DKP-F170-24P-RDM									TYPE:LED						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:2024080109		
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	1.42	2.87	4.18	5.22	5.75	5.87	5.92	6.10	6.11
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	3.45	6.29	8.83	10.7	11.6	11.8	11.9	12.3	12.2
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.90	7.22	11.5	16.7	21.5	25.8	29.2	31.0	32.0	33.4	34.6	34.8
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.16	7.47	16.2	24.6	32.0	38.5	44.4	48.6	50.8	52.8	55.4	57.1	57.4
-55	0.00	0.00	0.00	0.00	0.00	0.01	5.45	15.0	25.7	36.1	46.2	55.6	64.3	72.3	79.5	86.2	92.2	96.2	97.3
-50	0.00	0.00	0.00	0.00	0.00	1.16	13.6	26.8	39.3	51.7	64.4	76.3	87.5	98.9	111	122	131	136	137
-45	0.00	0.00	0.00	0.00	0.00	4.38	17.7	32.7	47.9	63.6	80.7	100	122	146	172	197	218	232	236
-40	0.00	0.00	0.00	0.00	0.00	11.9	27.7	44.5	62.6	82.1	105	132	166	204	244	282	312	332	335
-35	0.00	0.00	0.00	0.00	0.36	12.8	29.5	48.2	69.7	95.4	129	172	229	299	378	459	527	573	587
-30	0.00	0.00	0.00	0.00	3.25	20.3	38.3	60.0	86.1	121	169	232	317	424	545	665	766	826	835
-25	0.00	0.00	0.00	0.00	3.20	20.4	39.7	63.5	93.8	135	195	284	410	575	775	983	1163	1277	1303
-20	0.00	0.00	0.00	0.00	9.19	27.8	49.8	77.9	116	171	252	380	562	802	1087	1379	1618	1753	1760
-15	0.00	0.00	0.00	0.00	7.03	26.0	48.5	77.3	117	177	267	412	631	930	1302	1697	2029	2221	2248
-10	0.00	0.00	0.00	0.00	12.2	32.4	57.5	90.3	138	212	330	519	806	1197	1676	2163	2542	2725	2711
-5	0.00	0.00	0.00	0.00	9.20	29.2	53.7	85.6	131	202	316	502	789	1189	1690	2215	2644	2887	2924
0	0.00	0.00	0.00	0.00	13.9	34.9	61.3	96.3	148	229	364	583	914	1369	1918	2460	2876	3095	3109
5	0.00	0.00	0.00	0.00	9.26	29.3	53.7	85.6	131	201	313	496	777	1169	1657	2168	2597	2861	2936
10	0.00	0.00	0.00	0.00	12.3	32.5	57.6	90.3	137	210	323	505	780	1151	1602	2068	2454	2688	2748
15	0.00	0.00	0.00	0.00	7.14	26.2	48.6	77.4	116	175	262	399	605	887	1236	1606	1935	2155	2233
20	0.00	0.00	0.00	0.00	9.31	28.0	50.0	78.0	115	168	245	364	531	755	1017	1288	1524	1676	1712
25	0.00	0.00	0.00	0.00	3.52	20.8	40.3	64.3	94.3	135	192	275	390	543	726	919	1092	1213	1255
30	0.00	0.00	0.00	0.00	4.01	21.0	39.4	61.5	87.6	121	167	226	304	400	512	624	720	780	793
35	0.00	0.00	0.00	0.00	0.63	13.4	30.4	49.4	71.1	96.7	129	169	221	284	357	431	495	539	553
40	0.00	0.00	0.00	0.00	0.00	12.3	28.5	45.5	64.1	83.7	106	132	162	196	232	265	293	309	312
45	0.00	0.00	0.00	0.00	0.00	4.71	18.2	33.4	49.1	65.0	82.0	100	121	143	166	188	206	218	221
50	0.00	0.00	0.00	0.00	0.00	1.51	13.9	27.4	40.3	53.0	65.6	77.1	87.7	97.8	108	118	126	130	130
55	0.00	0.00	0.00	0.00	0.00	0.11	5.58	15.4	26.1	36.8	47.0	56.1	64.4	71.5	77.7	83.4	88.5	91.8	92.5
60	0.00	0.00	0.00	0.00	0.00	0.00	0.26	7.60	16.2	24.8	32.3	38.6	44.2	47.8	49.4	51.0	53.1	54.4	54.4
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.98	7.25	11.6	16.6	21.2	25.1	28.0	29.4	30.2	31.3	32.2	32.3
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.85	5.45	7.47	8.99	9.68	9.81	9.89	10.0	9.88
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	2.49	3.54	4.37	4.80	4.90	4.93	5.02	4.98
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	5.90	5.60	5.42	5.21	4.64	3.66	2.44	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	11.7	11.1	10.8	10.3	8.95	6.86	4.29	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	34.1	32.6	31.3	30.3	28.4	25.0	20.6	15.3	10.2	5.80	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	56.0	53.5	51.4	49.8	46.7	41.4	34.9	27.5	18.7	9.97	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	95.5	91.0	84.9	78.5	71.7	64.0	55.1	45.1	34.2	23.4	12.8	4.18	0.00	0.00	0.00	0.00	0.00	0.00
-50	134	126	116	105	93.9	83.3	71.4	58.4	45.3	32.5	19.1	6.03	0.00	0.00	0.00	0.00	0.00	0.00
-45	230	215	192	167	142	118	97.7	78.9	61.9	45.8	30.1	14.9	2.78	0.00	0.00	0.00	0.00	0.00
-40	322	295	259	220	181	145	116	92.4	71.9	52.6	34.9	18.1	2.87	0.00	0.00	0.00	0.00	0.00
-35	565	513	440	360	284	215	163	123	91.6	66.7	45.5	26.8	9.91	0.00	0.00	0.00	0.00	0.00
-30	792	704	589	469	358	263	192	139	101	71.9	48.2	28.5	10.7	0.00	0.00	0.00	0.00	0.00
-25	1241	1105	920	719	533	378	264	183	126	87.8	59.1	36.1	17.2	1.11	0.00	0.00	0.00	0.00
-20	1646	1437	1170	891	641	442	298	201	134	91.1	60.0	35.7	16.4	0.40	0.00	0.00	0.00	0.00
-15	2133	1899	1570	1201	859	584	383	249	163	108	71.5	43.8	22.6	3.86	0.00	0.00	0.00	0.00
-10	2544	2243	1825	1366	955	634	406	256	166	109	70.8	42.4	20.9	2.14	0.00	0.00	0.00	0.00
-5	2789	2498	2066	1566	1098	730	466	292	187	121	78.8	48.4	25.3	5.75	0.00	0.00	0.00	0.00
0	2942	2601	2112	1567	1077	704	443	277	176	113	73.3	44.0	21.7	2.48	0.00	0.00	0.00	0.00
5	2823	2526	2078	1565	1094	724	462	289	185	120	78.3	48.1	25.2	5.61	0.00	0.00	0.00	0.00
10	2614	2293	1841	1363	944	623	399	252	163	107	70.0	42.0	20.5	1.87	0.00	0.00	0.00	0.00
15	2152	1916	1569	1189	843	570	374	242	159	106	70.1	42.9	21.9	3.39	0.00	0.00	0.00	0.00
20	1618	1413	1144	866	621	427	287	194	130	88.5	58.3	34.6	15.6	0.10	0.00	0.00	0.00	0.00
25	1207	1078	895	698	515	365	255	177	122	85.4	57.5	35.0	16.4	0.79	0.00	0.00	0.00	0.00
30	755	675	568	452	345	254	186	135	97.9	70.0	46.9	27.7	9.92	0.00	0.00	0.00	0.00	0.00
35	535	488	420	345	272	207	157	118	88.8	64.8	44.0	25.6	8.91	0.00	0.00	0.00	0.00	0.00
40	300	276	244	207	171	139	112	89.1	69.5	50.8	33.5	16.7	1.81	0.00	0.00	0.00	0.00	0.00
45	216	202	181	158	135	113	93.3	75.3	59.0	43.6	28.2	13.3	2.20	0.00	0.00	0.00	0.00	0.00
50	127	120	110	100	90.1	79.7	67.7	54.7	42.4	30.2	17.0	4.44	0.00	0.00	0.00	0.00	0.00	0.00
55	90.6	86.3	80.8	74.9	68.4	60.6	51.5	41.4	30.9	20.9	10.7	3.32	0.00	0.00	0.00	0.00	0.00	0.00
60	52.8	50.5	48.9	47.4	43.6	38.0	31.4	23.8	15.4	7.58	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	31.3	29.9	28.8	27.8	25.5	21.9	17.3	12.7	8.54	4.54	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	9.31	8.75	8.34	7.56	6.03	4.05	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	4.72	4.42	4.22	3.89	3.19	2.24	0.96	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
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: