

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

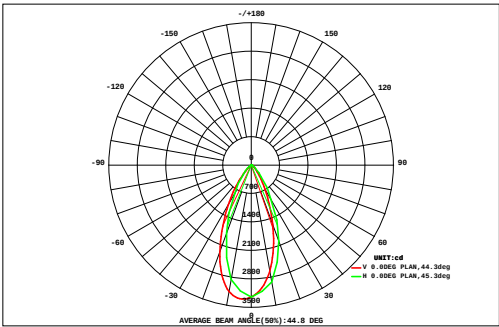
Maximum Intensity (Luminaire orientation as tested.)		1497.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	81.6V x 78.5H
	At 50% of Imax	44.9V x 44.3H
	At 90% of Imax	18.1V x 19.0H
Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	888.4 lumens per klm.
	To 50% of Imax	503.2 lumens per klm.
	To 90% of Imax	96.7 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:2024-08-30

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:221.4V I:0.3329A P:47.05W PF:0.6382 Lamp Flux:2202.52x1 lm		
NAME: 8.03.007.0160 45° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080136
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:46.81lm/W	
MODELSP-DKP-F170-24P-RDM	Imax(cd)	3297	
NOMINAL POWER(W)	48	AVAILABILITY(%)	89.3
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	1967
NOMINAL FLUX(lm)	2202.52	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2202
TEST VOLTAGE(V)	221.4	θ @50%(H,V)	44,45DEG

		AREA FLUX DIAGRAM															UNIT:lm			Φ t	Φ a
VERTICAL (DEG)	72	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.21	0.28	0.30	0.29	0.29	0.23	0.12	0.03	0.01	0.00	0.00	1.83	0.00
	64	0.00	0.00	0.00	0.00	0.01	0.35	0.83	1.01	1.12	1.15	1.07	0.98	0.84	0.61	0.35	0.11	0.00	0.00	8.43	0.00
	56	0.00	0.00	0.00	0.01	0.31	0.99	1.84	2.31	2.52	2.51	2.28	1.91	1.54	1.16	0.75	0.37	0.09	0.00	18.6	0.00
	48	0.00	0.00	0.00	0.09	0.85	2.15	3.60	4.65	5.30	5.28	4.63	3.63	2.64	1.80	1.14	0.62	0.22	0.02	36.6	5.25
	40	0.00	0.00	0.00	0.53	1.99	4.49	7.11	9.55	11.0	10.7	8.92	6.44	4.17	2.50	1.46	0.75	0.27	0.03	69.9	50.1
	32	0.00	0.00	0.11	1.16	3.56	8.28	13.6	18.8	21.7	20.7	16.5	11.1	6.51	3.57	1.88	0.93	0.37	0.05	129	116
	24	0.00	0.00	0.23	1.60	5.42	12.9	22.6	32.4	38.2	37.1	29.4	18.9	10.3	5.17	2.52	1.18	0.47	0.10	219	208
		0.00	0.00	0.26	1.85	6.47	16.3	30.0	44.1	52.2	52.1	42.9	28.0	14.9	6.98	3.16	1.42	0.57	0.14	301	292
		0.00	0.00	0.33	2.16	7.66	19.2	35.8	52.7	61.7	60.8	49.9	32.6	17.0	7.76	3.40	1.50	0.59	0.15	353	344
		0.00	0.00	0.52	2.71	9.47	22.1	39.7	56.1	63.0	59.2	46.2	28.7	14.5	6.57	2.94	1.29	0.49	0.10	354	345
		0.00	0.00	0.39	2.16	7.41	17.6	32.0	46.8	53.7	50.1	38.5	24.1	12.6	5.91	2.73	1.24	0.48	0.10	296	286
	-24	0.00	0.00	0.17	1.32	4.28	10.8	19.3	28.7	34.5	33.4	26.5	17.5	9.79	4.99	2.45	1.15	0.46	0.10	195	185
-32	0.00	0.00	0.07	0.74	2.52	6.48	11.2	16.0	19.2	18.9	15.3	10.5	6.35	3.57	1.93	0.97	0.39	0.08	114	101	
-40	0.00	0.00	0.04	0.44	1.55	3.66	6.00	7.78	8.68	8.33	6.93	5.10	3.46	2.22	1.34	0.72	0.28	0.04	56.6	34.7	
-48	0.00	0.00	0.00	0.21	0.86	1.99	3.02	3.55	3.70	3.49	3.02	2.44	1.88	1.35	0.88	0.45	0.12	0.01	26.9	0.00	
-56	0.00	0.00	0.00	0.00	0.21	0.75	1.38	1.64	1.80	1.84	1.71	1.49	1.26	0.94	0.59	0.27	0.06	0.00	13.9	0.00	
-64	0.00	0.00	0.00	0.00	0.00	0.12	0.54	0.80	0.90	0.92	0.86	0.80	0.69	0.50	0.28	0.11	0.03	0.00	6.55	0.00	
-72	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.15	0.19	0.20	0.20	0.20	0.18	0.12	0.07	0.03	0.00	0.00	1.42	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)					16	24	32	40	48	56	64	72
Φ t	0.00	0.01	2.12	15.0	52.6	128	229	327	380	367	295	195	109	55.8	27.9	13.1	4.91	0.91	2202	---	
Φ a	0.00	0.00	0.00	0.95	34.5	113	214	312	365	353	280	176	89.0	28.9	1.65	0.00	0.00	0.00	---	1967	

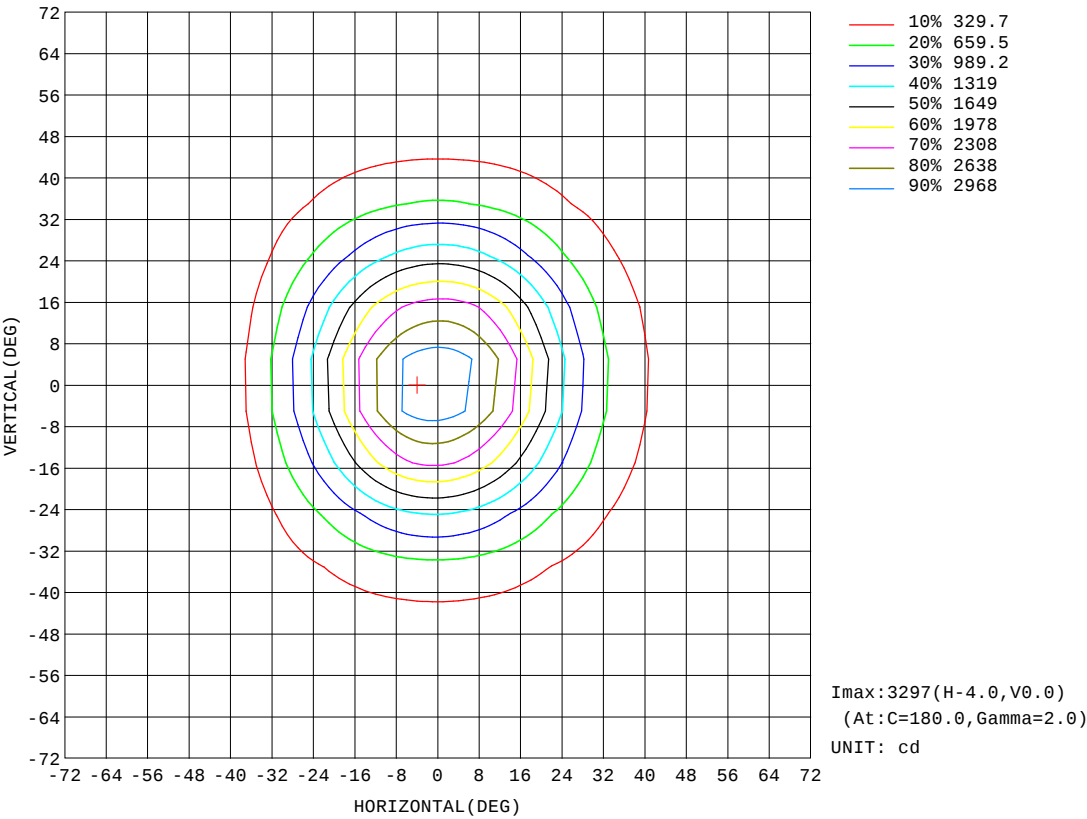
one-half-peak spread: U:21.7,D:23.4 , L:21.3,R:23.2 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-30

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:

ISOCANDELA DIAGRAM

Test:U:221.4V I:0.3329A P:47.05W PF:0.6382 Lamp Flux:2202.52x1 lm		
NAME: 8.03.007.0160 45° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080136
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

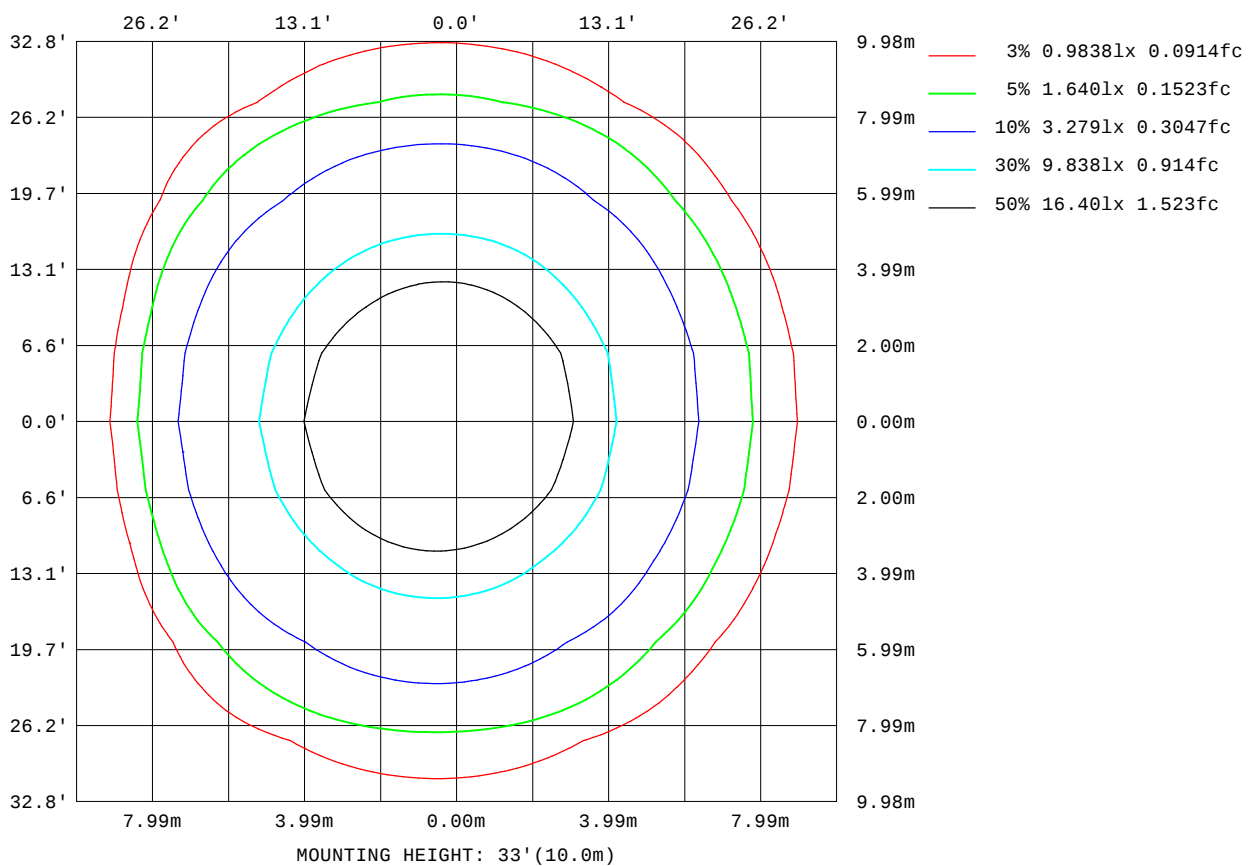


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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024080136
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

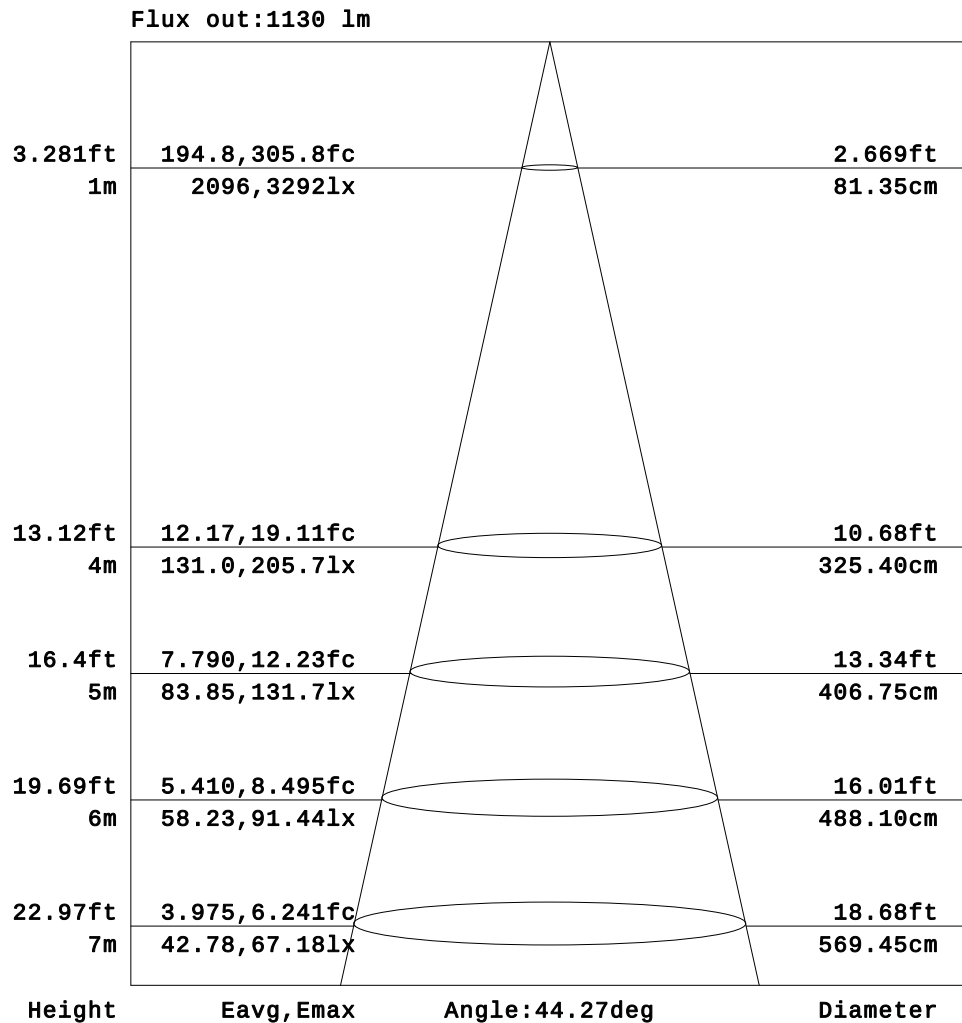


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-30

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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

AAI Figure

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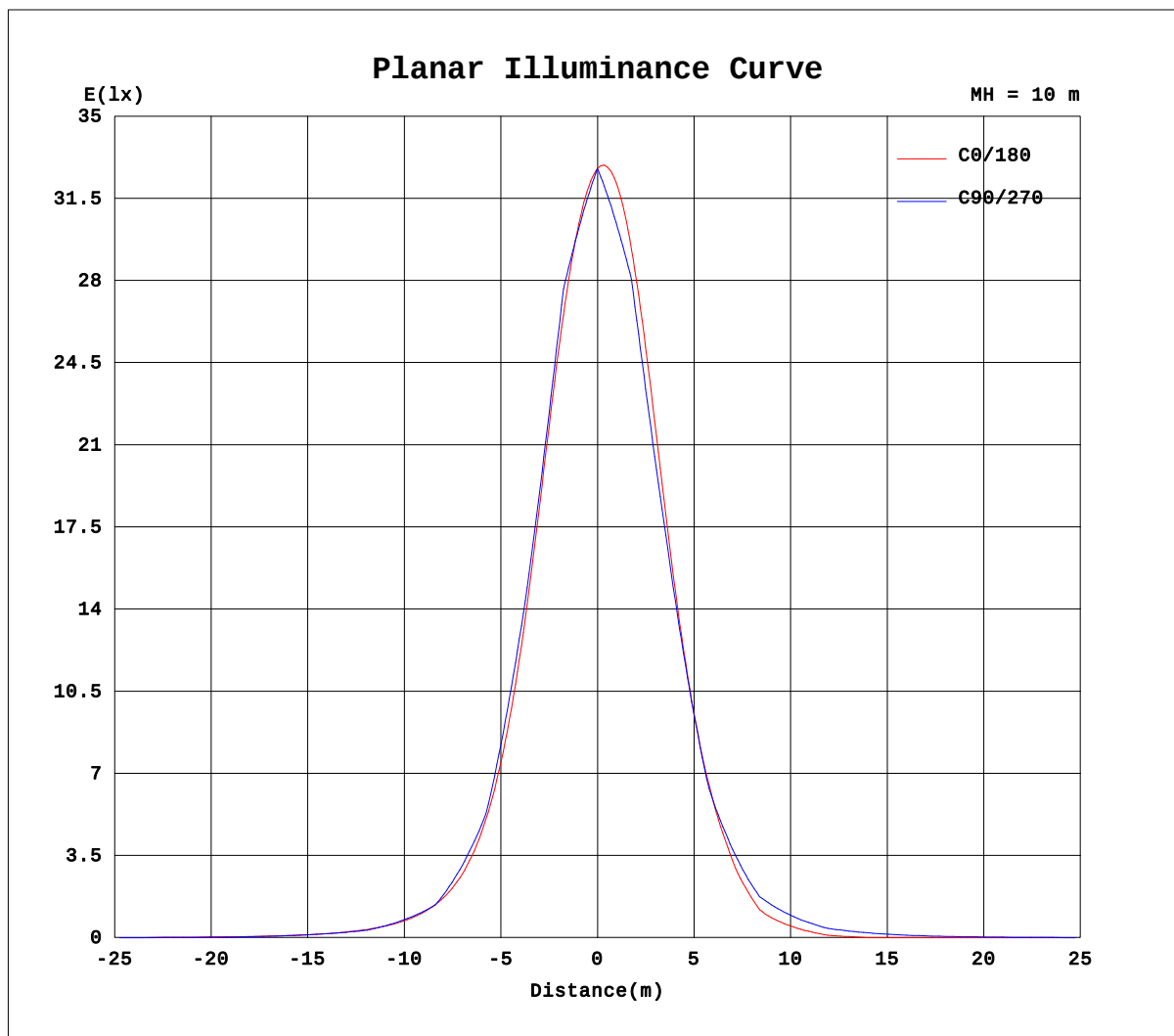


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Remarks:

Planar Illuminance Curve



H(β) Range: -90 - 90DEG
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Test Speed: HIGH
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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2024080136
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--1																	UNIT: cd			
H(DEG) V(DEG)	-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	0.00	0.00	0.00	0.00	0.00	0.09	0.79	1.29	
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	2.33	2.55	
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.54	13.7	19.8	21.8	23.9	25.0	
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.19	22.2	35.1	42.4	45.0	47.3	47.4	
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.95	19.9	37.9	60.4	73.2	79.1	83.6	85.8	
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	28.8	55.7	81.9	103	112	119	123	124	
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	13.6	39.6	72.3	118	158	183	202	215	219	
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.4	49.6	87.3	143	206	245	279	303	314	311	
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	12.4	52.1	101	178	279	364	441	508	552	565	
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.8	53.6	113	200	335	458	576	688	772	814	804	
-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.54	42.6	110	202	374	565	762	969	1153	1277	1312	
-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	33.6	109	196	397	643	904	1196	1481	1701	1805	1773	
-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.1	76.8	169	337	618	938	1313	1720	2078	2306	2360	
-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.96	56.5	153	297	602	967	1407	1918	2412	2768	2914	2856	
-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.1	102	210	447	807	1237	1759	2312	2771	3044	3104	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.5	72.0	176	364	715	1143	1672	2268	2800	3155	3293	3244	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.0	105	214	459	826	1263	1789	2334	2774	3035	3115	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.0	61.3	161	315	634	1014	1466	1973	2433	2753	2912	2923	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.0	84.5	181	366	664	1003	1396	1807	2154	2379	2468	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.11	39.4	121	218	445	711	1000	1316	1621	1858	1985	1984	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.51	50.6	125	231	425	636	858	1089	1294	1436	1491	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.8	67.3	133	239	392	533	676	813	920	976	971	
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	16.8	65.0	123	217	328	426	521	607	665	687	
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.1	65.2	110	178	242	290	337	372	390	390	
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	18.3	54.6	94.5	144	189	220	248	266	273	
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.9	42.2	70.1	104	127	139	148	153	152	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	12.4	29.6	53.6	78.0	91.9	98.3	103	106	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.0	34.7	48.8	52.9	55.1	58.0	59.4	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.07	12.3	20.2	26.9	30.4	32.4	34.5	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	5.46	8.20	9.57	10.7	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	3.60	4.30	5.08	
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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DIM.:	SPEC.:	SERIAL No.:2024080136
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	1.26	1.42	1.98	2.34	2.10	1.26	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	2.68	3.42	4.45	4.55	3.25	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-65	24.8	24.1	23.6	23.7	22.9	20.6	17.0	13.5	9.50	5.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	46.2	44.1	42.7	42.3	40.2	35.9	29.7	22.3	13.9	6.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-55	85.3	82.3	77.5	72.4	67.5	61.8	54.3	45.1	34.8	24.2	13.6	4.91	0.00	0.00	0.00	0.00	0.00	0.00	
-50	121	115	106	96.7	88.2	79.2	68.1	55.6	42.7	29.6	15.3	2.78	0.00	0.00	0.00	0.00	0.00	0.00	
-45	215	202	184	162	140	120	101	83.4	66.8	50.6	34.1	18.0	4.25	0.00	0.00	0.00	0.00	0.00	
-40	295	268	235	200	168	138	113	91.1	71.3	51.9	33.3	15.3	0.66	0.00	0.00	0.00	0.00	0.00	
-35	546	498	430	356	285	222	172	133	102	76.1	53.4	33.0	14.1	0.87	0.00	0.00	0.00	0.00	
-30	745	650	536	424	323	244	183	136	101	72.7	48.5	27.6	8.18	0.00	0.00	0.00	0.00	0.00	
-25	1255	1119	935	735	550	397	284	203	145	103	71.3	45.3	23.7	4.31	0.00	0.00	0.00	0.00	
-20	1617	1375	1093	819	583	405	280	196	135	93.4	61.8	36.3	15.1	0.01	0.00	0.00	0.00	0.00	
-15	2252	2007	1662	1280	922	633	423	283	191	130	87.8	56.1	31.0	9.35	0.00	0.00	0.00	0.00	
-10	2622	2242	1772	1299	895	590	384	251	168	113	74.0	44.2	20.6	1.00	0.00	0.00	0.00	0.00	
-5	2979	2690	2252	1733	1230	824	533	342	224	149	98.4	63.0	35.2	12.4	0.00	0.00	0.00	0.00	
0	3029	2645	2116	1545	1051	681	432	278	183	120	78.0	46.6	22.1	1.36	0.00	0.00	0.00	0.00	
5	3029	2771	2338	1802	1277	853	550	351	228	151	99.8	63.8	35.8	12.7	0.00	0.00	0.00	0.00	
10	2763	2415	1927	1410	965	633	407	262	174	116	76.1	45.5	21.5	1.25	0.00	0.00	0.00	0.00	
15	2413	2201	1848	1427	1023	697	461	304	203	136	91.6	58.5	32.5	10.5	0.00	0.00	0.00	0.00	
20	1847	1591	1269	945	668	457	310	213	145	99.1	65.5	38.7	16.8	0.01	0.00	0.00	0.00	0.00	
25	1448	1311	1103	866	643	459	321	225	158	111	76.5	48.9	26.3	5.98	0.00	0.00	0.00	0.00	
30	906	793	654	512	386	283	208	152	110	79.2	53.1	30.8	10.6	0.00	0.00	0.00	0.00	0.00	
35	667	611	528	434	342	263	198	150	113	84.3	59.4	37.3	17.3	1.81	0.00	0.00	0.00	0.00	
40	369	334	290	244	200	160	128	102	80.2	58.7	38.4	19.3	2.32	0.00	0.00	0.00	0.00	0.00	
45	267	250	225	196	167	141	117	95.6	76.5	58.3	40.2	22.6	6.53	0.00	0.00	0.00	0.00	0.00	
50	147	138	126	114	102	91.6	79.5	65.5	50.9	36.2	20.7	5.97	0.00	0.00	0.00	0.00	0.00	0.00	
55	105	101	94.8	87.6	80.7	73.4	64.8	54.7	43.1	30.8	18.8	7.19	0.63	0.00	0.00	0.00	0.00	0.00	
60	59.1	57.0	54.5	53.2	50.5	45.2	38.3	30.3	20.5	10.9	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
65	35.2	34.4	33.3	32.6	31.8	29.1	24.8	19.5	13.3	8.26	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	10.5	10.4	11.1	11.3	10.3	7.99	5.12	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
75	5.39	5.17	5.31	5.64	5.55	4.72	3.48	1.81	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:2024-08-30

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: