

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

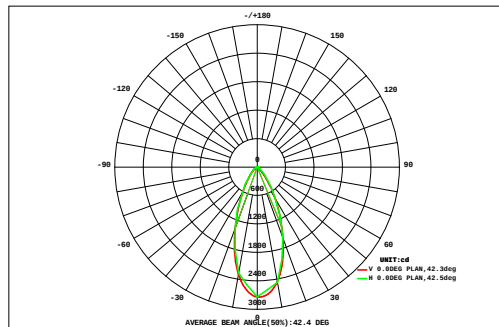
Maximum Intensity (Luminaire orientation as tested.)		1563.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	80.5V x 78.2H
	At 50% of Imax	42.6V x 42.3H
	At 90% of Imax	15.9V x 17.2H
Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	875.9 lumens per klm.
	To 50% of Imax	471.6 lumens per klm.
	To 90% of Imax	84.0 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:2024-08-09

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:221.3V I:0.3026A P:42.37W PF:0.6328 Lamp Flux:1752.28x1 lm		
NAME: 8.03.007.0139 45°SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202408041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:41.36lm/W	
MODELSP-DKP-F170-24P-RDM	Imax(cd)	2740	
NOMINAL POWER(W)	42	AVAILABILITY(%)	88.0
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	1542
NOMINAL FLUX(lm)	1752.28	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1752
TEST VOLTAGE(V)	221.3	θ @50%(H,V)	42,43DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm				Φ t	Φ a
	72	0.00	0.00	0.01	0.03	0.14	0.26	0.30	0.26	0.21	0.18	0.10	0.04	0.01	0.00	0.00	0.00	0.00	1.55	0.00		
	64	0.00	0.01	0.11	0.31	0.54	0.73	0.81	0.83	0.86	0.85	0.78	0.53	0.14	0.00	0.00	0.00	0.00	6.51	0.00		
	56	0.00	0.07	0.27	0.57	0.92	1.24	1.50	1.74	1.90	1.91	1.74	1.40	0.75	0.21	0.00	0.00	0.00	14.2	0.00		
	48	0.02	0.16	0.45	0.86	1.35	1.94	2.63	3.37	3.92	4.03	3.61	2.89	1.77	0.67	0.10	0.00	0.00	27.8	1.11		
	40	0.05	0.26	0.64	1.19	1.96	3.13	4.75	6.58	8.01	8.33	7.31	5.53	3.36	1.38	0.31	0.01	0.00	52.8	34.6		
	32	0.08	0.34	0.79	1.54	2.85	5.08	8.51	12.6	15.9	16.6	14.2	10.2	6.04	2.47	0.72	0.03	0.00	97.9	86.8		
	24	0.11	0.40	0.95	1.96	3.93	7.83	14.3	22.6	29.2	30.5	25.7	17.6	9.96	4.14	1.24	0.12	0.00	171	162		
		0.13	0.45	1.09	2.32	4.88	10.2	19.7	32.1	41.9	44.1	37.7	25.5	14.1	5.97	1.74	0.25	0.00	242	234		
		0.14	0.49	1.19	2.57	5.56	11.9	23.4	38.4	49.8	52.1	44.5	30.1	16.4	6.99	2.01	0.33	0.00	286	278		
		0.16	0.53	1.26	2.71	5.88	12.5	24.4	39.2	49.7	50.9	42.8	28.7	15.5	6.55	1.90	0.29	0.00	283	275		
		0.15	0.51	1.20	2.51	5.12	10.3	19.4	31.0	39.8	41.0	34.5	23.4	13.1	5.69	1.72	0.25	0.00	230	222		
	-24	0.13	0.45	1.04	2.06	3.90	7.30	12.7	19.5	25.0	26.1	22.3	15.7	9.30	4.23	1.36	0.17	0.00	151	142		
	-32	0.10	0.37	0.89	1.68	2.93	4.95	7.89	11.3	14.2	14.8	12.9	9.48	5.98	2.77	0.91	0.08	0.00	91.2	79.2		
	-40	0.07	0.30	0.72	1.34	2.16	3.22	4.52	5.87	6.85	7.03	6.27	4.92	3.31	1.51	0.43	0.02	0.00	48.5	27.6		
	-48	0.05	0.22	0.55	1.02	1.55	2.08	2.59	3.04	3.29	3.28	2.97	2.45	1.59	0.66	0.08	0.00	0.00	25.4	0.00		
-56	0.02	0.12	0.33	0.66	1.01	1.32	1.53	1.65	1.75	1.75	1.61	1.34	0.74	0.21	0.02	0.00	0.00	14.1	0.00			
-64	0.01	0.03	0.14	0.33	0.56	0.76	0.89	0.90	0.89	0.86	0.78	0.57	0.22	0.06	0.00	0.00	0.00	7.00	0.00			
-72	0.00	0.01	0.03	0.08	0.19	0.29	0.35	0.33	0.28	0.23	0.18	0.11	0.04	0.00	0.00	0.00	0.00	2.13	0.00			
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72		
Φ t	1.24	4.71	11.7	23.7	45.4	85.2	150	231	293	305	260	180	102	43.5	12.5	1.54	0.00	0.00	1752	---		
Φ a	0.00	0.00	0.00	0.06	21.1	66.5	134	217	280	292	247	166	89.9	27.8	0.00	0.00	0.00	0.00	---	1542		

one-half-peak spread: U:20.1,D:22.8 , L:21.1,R:21.5

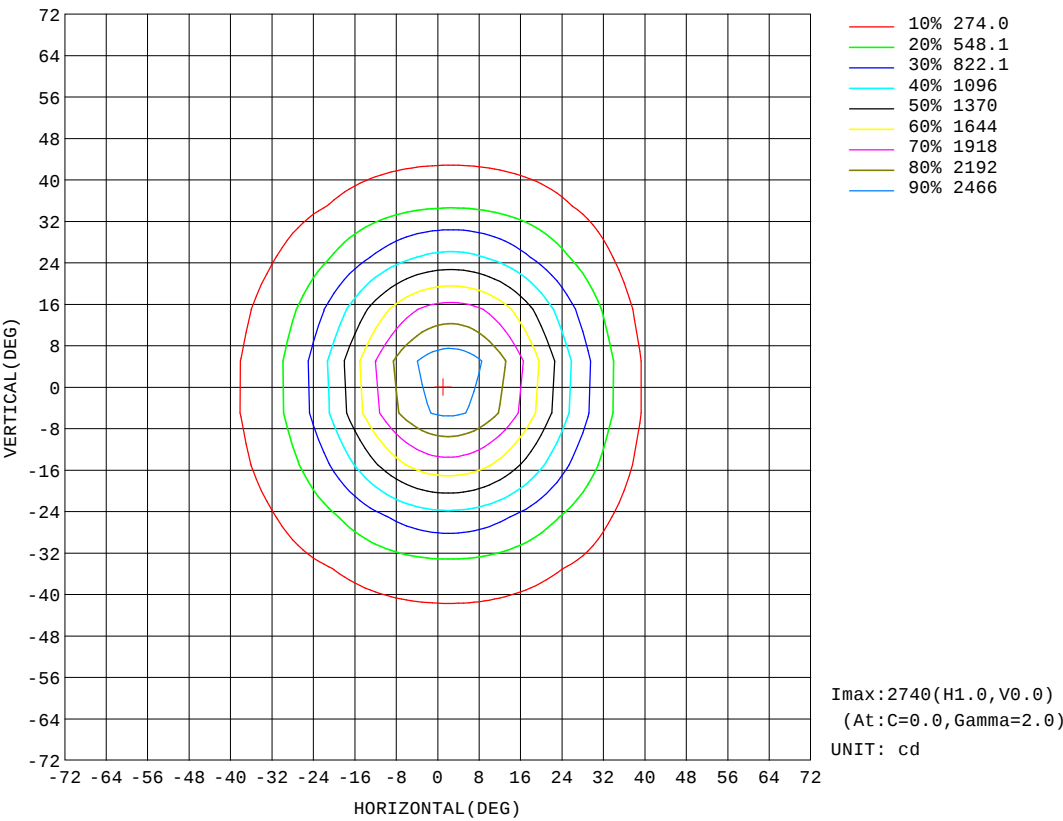
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-09

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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NAME: 8.03.007.0139 45°SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202408041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

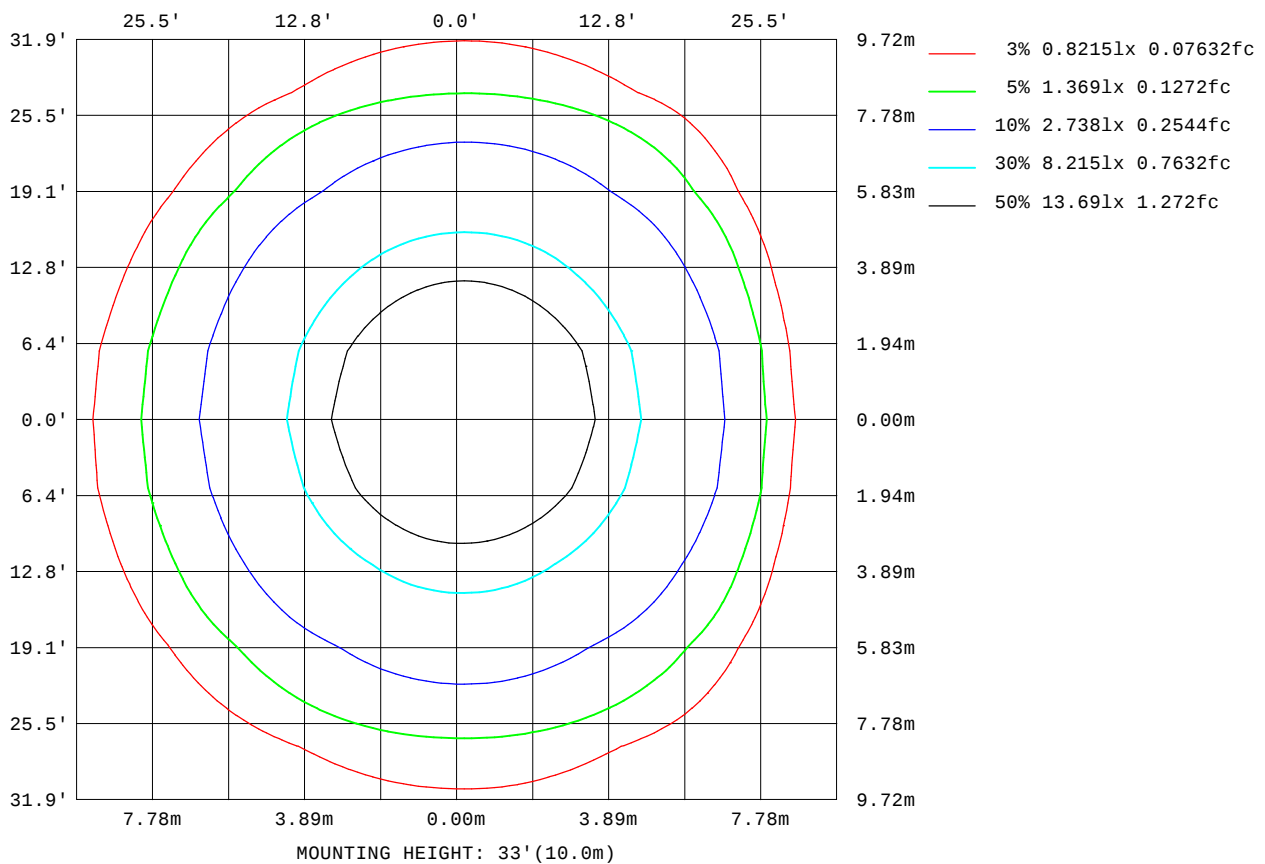


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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:202408041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

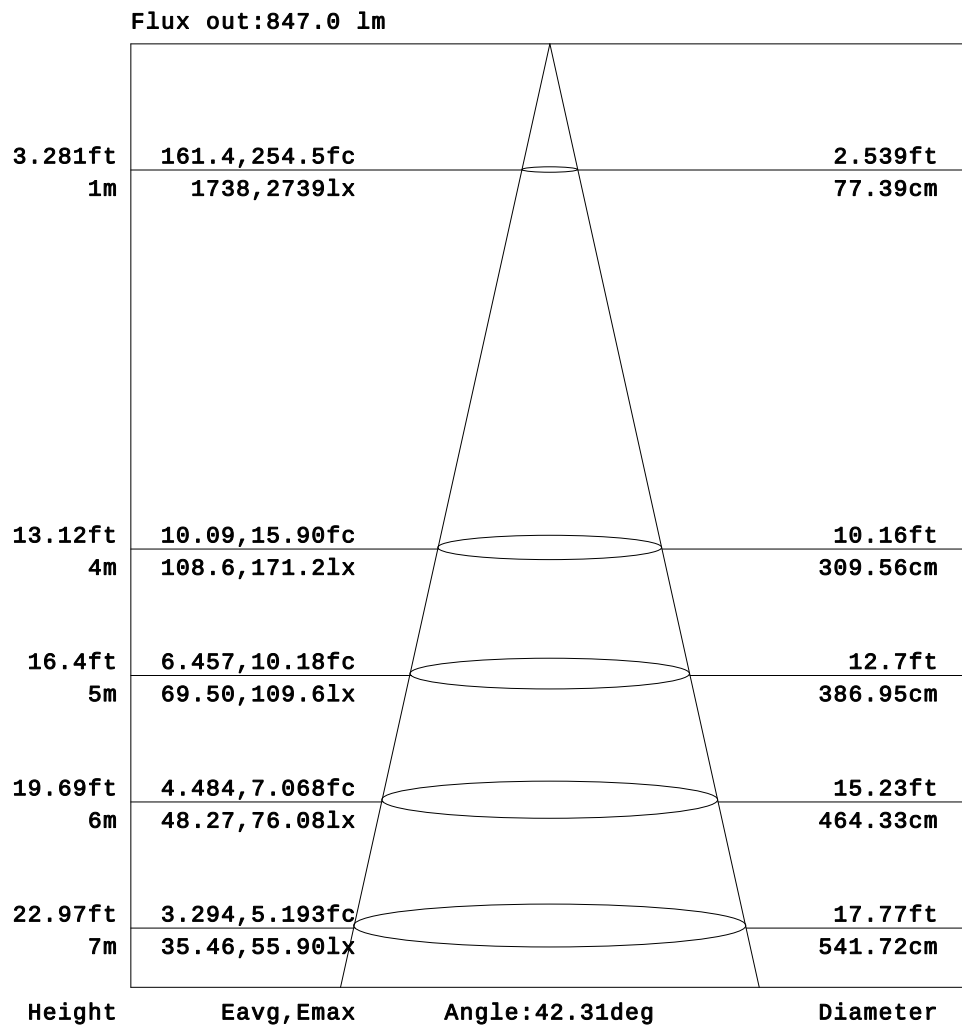


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-09

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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.:202408041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

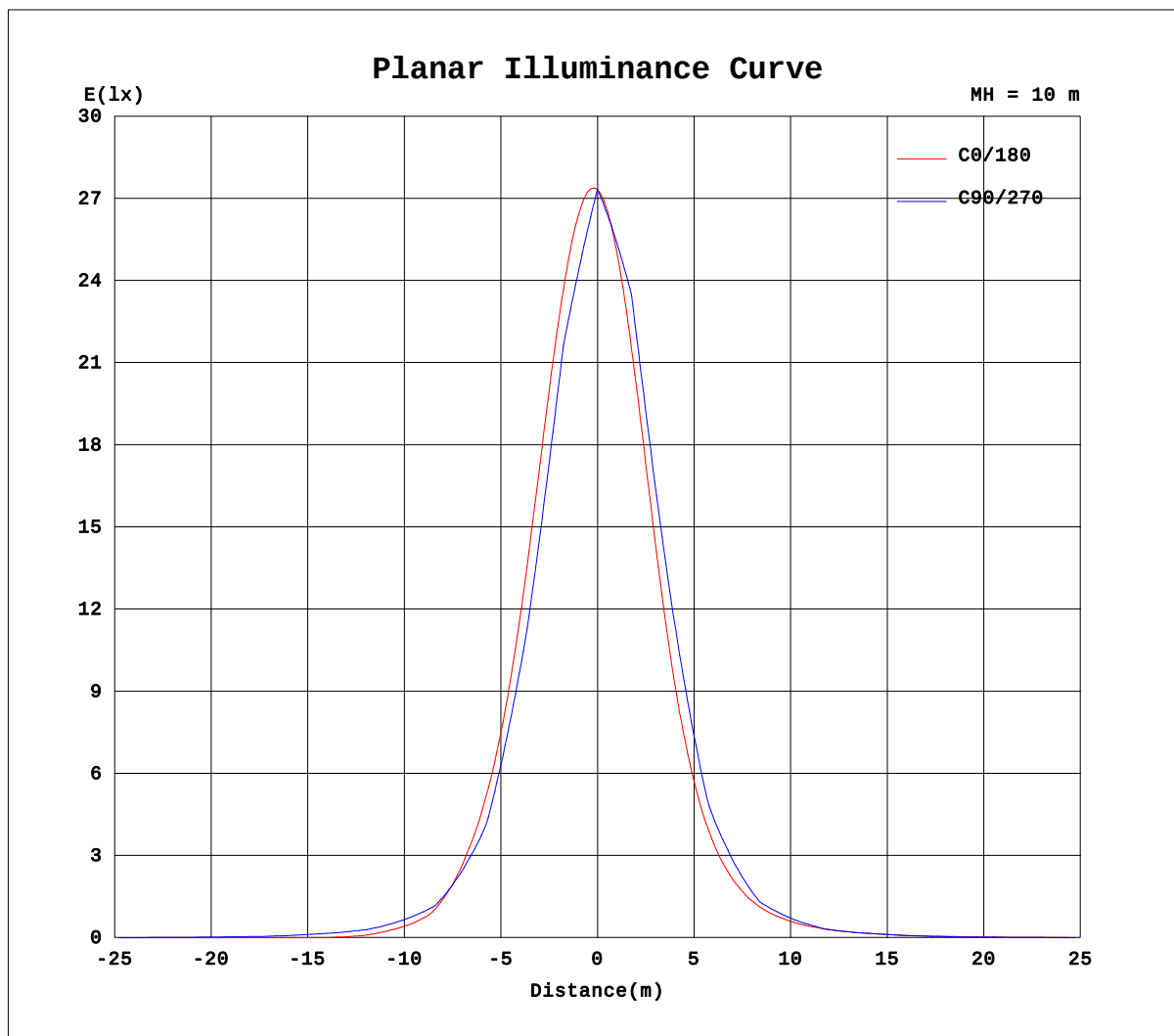


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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V(B) Interval: 5.0DEG
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Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range: -90 - 90DEG
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Test Date: 2024-08-09

V(β) Range: -80 - 80DEG
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Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:202408041
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	0.07	0.00	0.00	0.66	2.10	3.54	4.89	6.15	6.51	6.17	5.38	4.51	3.70	
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	1.85	4.80	7.63	10.3	12.6	13.0	12.1	10.4	8.70	7.07	
-65	0.00	0.00	0.00	0.00	0.48	0.96	1.69	3.92	7.18	11.4	16.6	21.8	26.2	29.5	30.9	30.5	29.1	27.8	26.4	
-60	0.00	0.00	0.00	0.00	1.32	1.99	3.86	9.05	15.7	22.9	30.6	37.9	43.6	47.3	48.9	48.4	47.2	46.3	45.2	
-55	0.00	0.00	0.00	0.25	1.75	3.43	8.05	15.4	24.5	34.8	45.4	55.0	63.1	69.5	73.7	76.1	78.0	79.6	80.1	
-50	0.00	0.00	0.00	1.15	2.87	6.23	14.8	25.3	37.3	51.1	64.1	75.5	85.5	93.8	99.6	104	110	113	115	
-45	0.00	0.00	0.00	1.06	3.27	8.49	18.6	31.3	46.3	62.8	79.5	95.5	111	127	143	158	173	184	189	
-40	0.00	0.00	0.00	1.90	4.93	14.2	27.2	43.1	61.8	81.3	101	122	144	167	192	218	241	257	264	
-35	0.00	0.00	0.00	1.82	5.42	15.5	29.6	47.1	68.3	91.5	117	148	184	227	277	331	383	424	447	
-30	0.00	0.00	0.00	2.64	9.01	21.8	38.6	59.1	83.9	111	144	187	240	306	384	466	544	604	633	
-25	0.00	0.00	0.00	2.04	8.60	21.8	39.1	60.5	87.5	120	161	217	295	398	526	670	814	930	994	
-20	0.00	0.00	0.01	3.09	12.9	28.0	47.3	71.9	103	142	197	274	387	536	723	933	1136	1291	1363	
-15	0.00	0.00	0.00	2.63	11.2	26.2	45.4	70.3	103	145	207	296	431	620	871	1165	1458	1689	1808	
-10	0.00	0.00	0.01	4.35	14.9	31.6	52.3	80.6	117	170	247	363	541	795	1131	1518	1887	2155	2269	
-5	0.00	0.00	0.00	3.02	12.2	28.1	48.1	75.1	111	161	236	354	536	804	1167	1597	2015	2333	2492	
0	0.00	0.00	0.29	3.97	15.0	32.0	53.2	82.4	121	178	265	407	625	944	1368	1851	2293	2602	2736	
5	0.00	0.00	0.00	2.44	11.5	27.2	46.9	73.3	109	158	235	356	544	821	1200	1648	2084	2416	2588	
10	0.00	0.00	0.01	3.22	13.5	29.7	49.7	77.0	113	166	245	368	559	835	1204	1627	2030	2326	2466	
15	0.00	0.00	0.00	1.43	9.36	23.6	41.7	65.0	95.9	138	201	296	443	653	937	1272	1605	1871	2015	
20	0.00	0.00	0.00	1.62	10.1	24.2	42.0	64.4	93.5	133	189	273	400	574	799	1055	1302	1496	1589	
25	0.00	0.00	0.00	0.41	6.13	18.0	33.8	52.9	77.3	108	150	210	298	417	572	751	929	1077	1159	
30	0.00	0.00	0.00	0.27	6.09	17.5	32.6	50.4	72.0	97.9	131	178	238	317	414	521	622	703	743	
35	0.00	0.00	0.00	0.01	2.66	11.5	24.4	40.2	58.7	79.7	104	136	176	228	291	360	428	484	516	
40	0.00	0.00	0.00	0.00	1.92	10.1	22.1	36.9	53.2	70.6	88.6	109	133	163	195	228	259	282	294	
45	0.00	0.00	0.00	0.00	0.47	4.83	14.1	26.0	40.0	54.8	69.6	85.1	102	120	140	161	180	196	204	
50	0.00	0.00	0.00	0.00	0.00	2.67	10.5	20.5	32.6	45.0	56.9	68.0	77.5	85.7	93.2	101	109	114	116	
55	0.00	0.00	0.00	0.00	0.00	0.78	4.34	11.2	20.5	30.7	41.0	50.3	58.3	64.1	68.1	71.7	75.5	78.6	79.9	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.30	5.43	12.4	20.5	29.1	36.2	41.7	44.4	44.5	43.5	43.5	44.1	44.3	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	5.47	9.40	15.0	20.5	25.4	28.2	28.7	27.7	26.6	26.0	25.4	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	3.15	7.03	10.5	12.6	12.7	11.4	9.44	7.70	6.41	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	3.09	4.96	6.19	6.41	5.90	4.90	4.02	3.29	
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	2.98	2.13	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	5.61	3.96	0.38	0.00	0.00	0.00	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	25.0	23.0	20.2	16.5	9.40	2.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	43.7	41.3	38.4	30.3	16.6	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-55	79.3	76.1	70.9	63.2	47.8	26.7	13.5	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-50	114	109	101	91.3	71.5	44.7	21.9	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-45	189	181	166	148	124	88.1	52.6	23.9	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-40	262	247	224	197	164	116	71.9	37.1	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-35	446	421	376	322	265	198	124	71.0	28.2	4.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-30	624	578	508	424	340	250	150	87.5	36.3	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-25	987	916	797	652	507	371	237	127	67.0	16.1	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-20	1333	1213	1031	820	618	439	270	139	73.6	17.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-15	1795	1659	1422	1132	843	595	379	192	103	33.6	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-10	2222	2024	1704	1323	961	659	404	193	104	30.5	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-5	2476	2291	1963	1544	1125	772	485	242	124	45.7	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0	2682	2449	2064	1591	1135	760	458	216	113	34.5	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	2581	2394	2050	1606	1162	790	491	241	123	44.1	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	2433	2224	1869	1437	1027	689	411	191	100	28.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	2016	1869	1597	1256	919	632	388	190	98.1	30.6	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	1562	1420	1196	937	687	470	274	135	66.6	15.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	1159	1074	926	746	564	396	237	123	60.0	13.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	735	677	587	481	373	258	143	80.8	29.8	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
35	517	485	429	361	287	201	118	64.4	24.1	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
40	291	273	245	212	170	110	64.8	30.9	3.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45	204	193	176	155	126	84.1	47.6	20.4	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50	114	108	99.6	88.9	65.3	42.4	19.4	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
55	79.2	75.7	70.4	61.3	44.8	25.3	11.9	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
60	43.7	41.6	38.5	28.1	15.9	1.96	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	23.2	19.9	15.4	9.37	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	5.39	3.98	0.00	0.00	0.00	0.00	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	2.81	2.16	0.25	0.00	0.00	0.00	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	
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:2024-08-09

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