

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

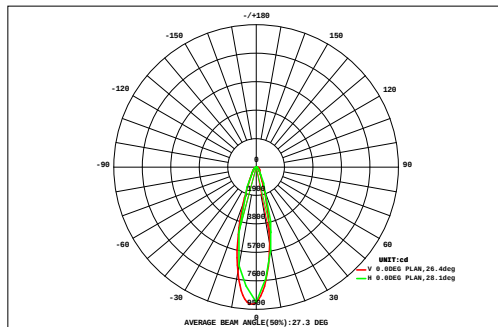
Maximum Intensity (Luminaire orientation as tested.)		3040.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	55.6V x 52.1H
	At 50% of Imax	27.7V x 26.4H
	At 90% of Imax	6.9V x 10.3H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	708.0 lumens per klm.
	To 50% of Imax	352.6 lumens per klm.
	To 90% of Imax	39.6 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:221.0V I:0.2901A P:40.54W PF:0.6322 Lamp Flux:3012.83x1 lm		
NAME: 8.03.012.0126 25° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080132
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:74.32lm/W	
MODEL	SP-EA-R225A-12P-RDM	Imax(cd)	9162
NOMINAL POWER(W)	40	AVAILABILITY(%)	71.2
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	2144
NOMINAL FLUX(lm)	3012.83	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	3013
TEST VOLTAGE(V)	221.0	θ @50%(H,V)	26, 28DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm				Φ t	Φ a
	45	0.76	0.96	1.18	1.41	1.64	1.87	2.06	2.20	2.30	2.30	2.23	2.09	1.92	1.70	1.47	1.24	1.03	0.81	29.1	0.00	
	40	0.99	1.24	1.51	1.81	2.09	2.37	2.59	2.75	2.82	2.77	2.63	2.43	2.19	1.90	1.60	1.33	1.08	0.84	35.0	0.00	
	35	1.01	1.31	1.66	2.06	2.50	2.97	3.43	3.84	4.09	4.09	3.86	3.49	3.05	2.61	2.17	1.76	1.41	1.10	46.4	0.00	
	30	1.31	1.70	2.17	2.69	3.27	3.90	4.51	4.99	5.15	4.98	4.54	3.97	3.37	2.81	2.27	1.81	1.41	1.08	55.9	0.00	
	25	1.26	1.69	2.24	2.95	3.93	5.34	7.28	9.49	11.0	11.0	9.47	7.43	5.55	4.12	3.12	2.39	1.83	1.39	91.5	52.4	
	20	1.62	2.22	2.97	4.03	5.64	8.06	11.3	14.4	15.6	14.3	11.3	8.28	5.83	4.17	3.08	2.33	1.76	1.31	118	83.8	
	15	1.46	2.00	2.78	4.02	6.37	11.0	18.8	28.1	34.9	35.4	29.3	20.0	12.0	6.99	4.41	3.06	2.23	1.63	224	198	
		1.88	2.62	3.80	6.04	10.7	19.9	33.1	45.8	51.2	46.4	34.1	20.7	11.2	6.28	3.98	2.78	2.01	1.45	304	279	
		1.55	2.18	3.09	4.75	8.39	16.5	31.1	48.2	60.8	62.5	52.3	35.4	19.7	10.1	5.54	3.53	2.47	1.77	370	346	
		1.96	2.81	4.27	7.47	15.0	30.2	51.3	69.4	76.4	68.7	50.1	29.4	14.7	7.31	4.30	2.90	2.07	1.49	440	417	
		1.51	2.10	2.92	4.26	6.99	13.3	25.5	41.2	53.5	56.3	48.1	33.2	18.9	9.88	5.49	3.49	2.44	1.74	331	306	
	-15	1.83	2.56	3.72	5.95	10.7	19.7	32.2	43.4	47.3	41.9	29.8	17.2	9.40	5.55	3.68	2.63	1.92	1.39	281	255	
	-20	1.35	1.84	2.48	3.31	4.58	7.14	11.8	18.5	24.4	26.5	23.5	17.2	10.8	6.54	4.21	2.93	2.15	1.57	171	141	
	-25	1.54	2.09	2.81	3.77	5.14	6.82	8.53	9.48	9.13	7.47	5.48	4.15	3.60	3.15	2.62	2.09	1.61	1.21	80.7	38.6	
	-30	1.13	1.49	1.94	2.46	3.09	3.92	5.10	6.60	7.98	8.57	7.98	6.52	4.97	3.75	2.88	2.22	1.71	1.30	73.6	26.9	
	-35	1.21	1.56	1.96	2.39	2.79	3.06	3.08	2.83	2.47	2.28	2.29	2.44	2.44	2.25	1.93	1.58	1.25	0.97	38.8	0.00	
	-40	0.88	1.12	1.40	1.71	2.05	2.40	2.75	3.09	3.33	3.42	3.32	3.06	2.71	2.33	1.97	1.61	1.30	1.03	39.5	0.00	
	-45	0.86	1.07	1.29	1.51	1.73	1.91	2.05	2.10	2.09	2.06	2.01	1.93	1.78	1.60	1.38	1.17	0.97	0.76	28.3	0.00	
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)				10	15	20	25	30	35	40	45		
Φ t	24.1	32.6	44.2	62.6	96.7	160	256	356	415	401	322	219	134	83.0	56.1	40.9	30.6	22.8	2757	---		
Φ a	0.00	0.00	0.00	12.2	54.0	127	228	330	389	376	299	191	97.0	38.4	3.21	0.00	0.00	0.00	---	2144		

one-half-peak spread: U:14.8,D:13.1 , L:13.3,R:13.3

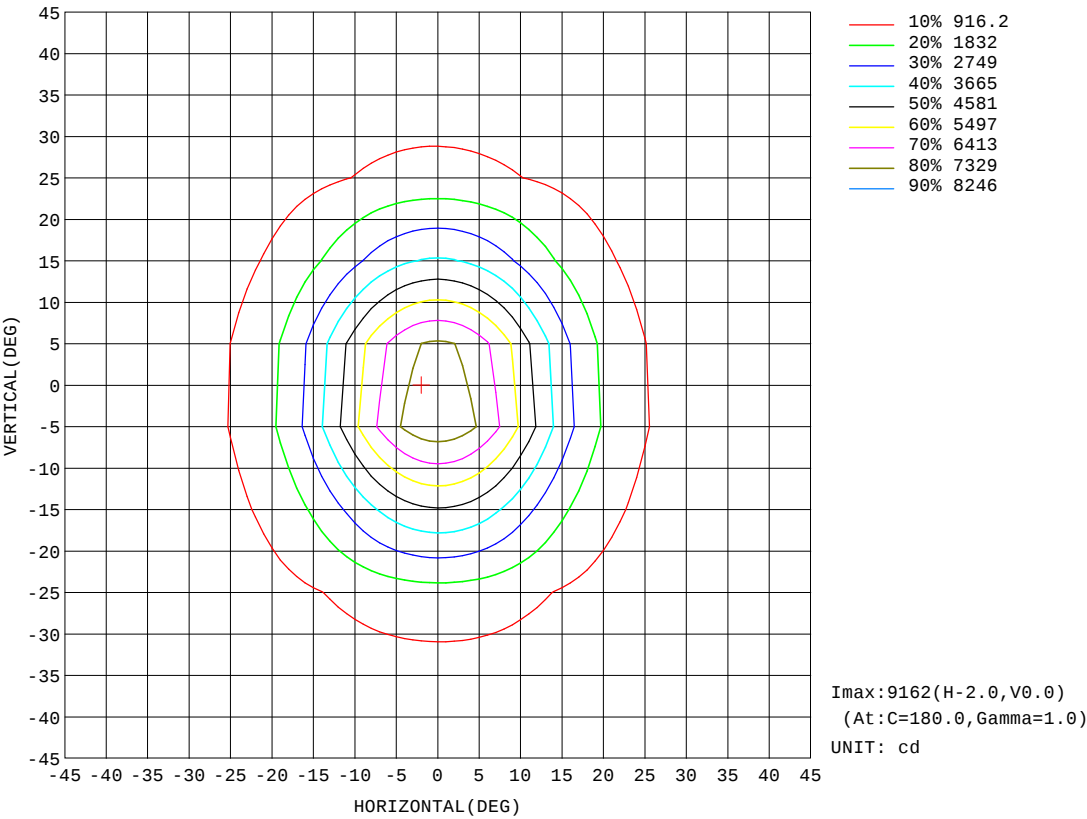
NEMA Beam Type: Type 4

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

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

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NAME: 8.03.012.0126 25° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080132
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

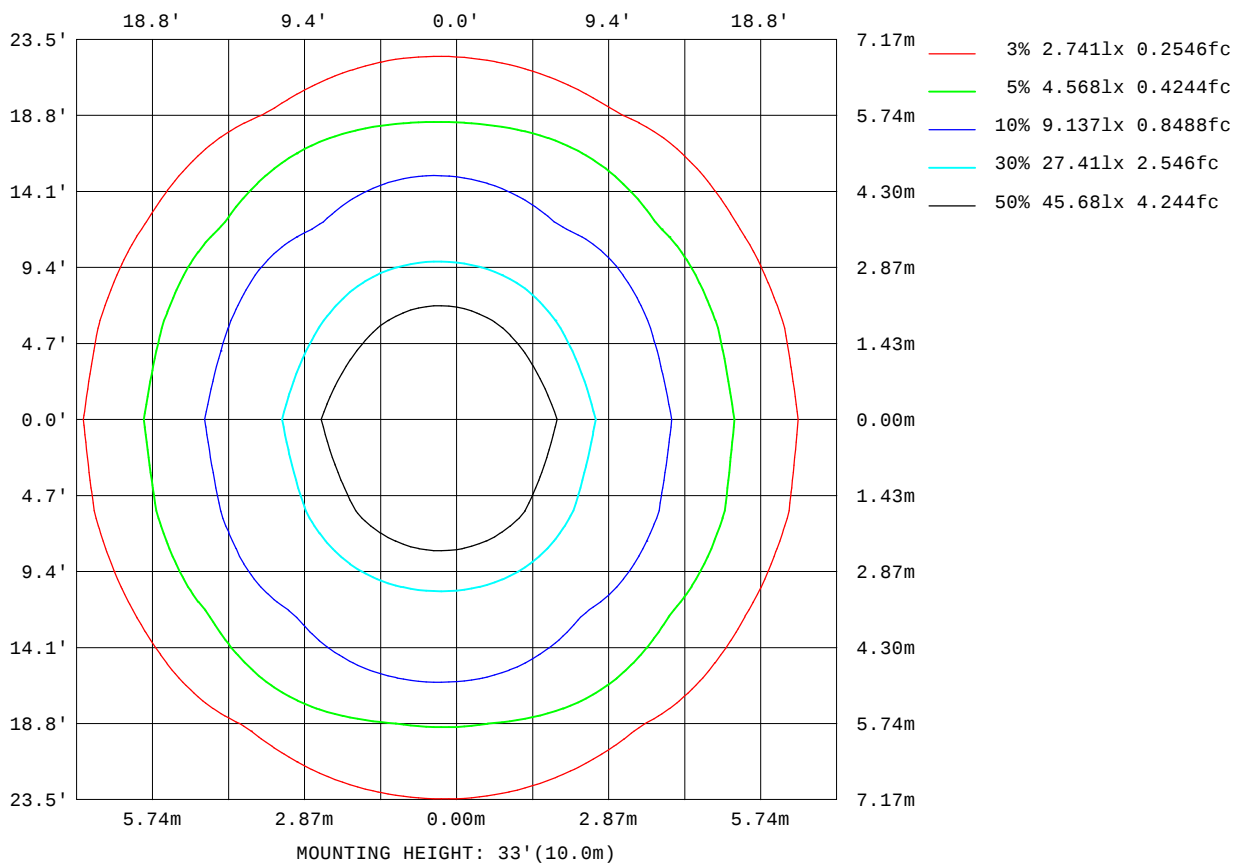


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ISOLUX DIAGRAM

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

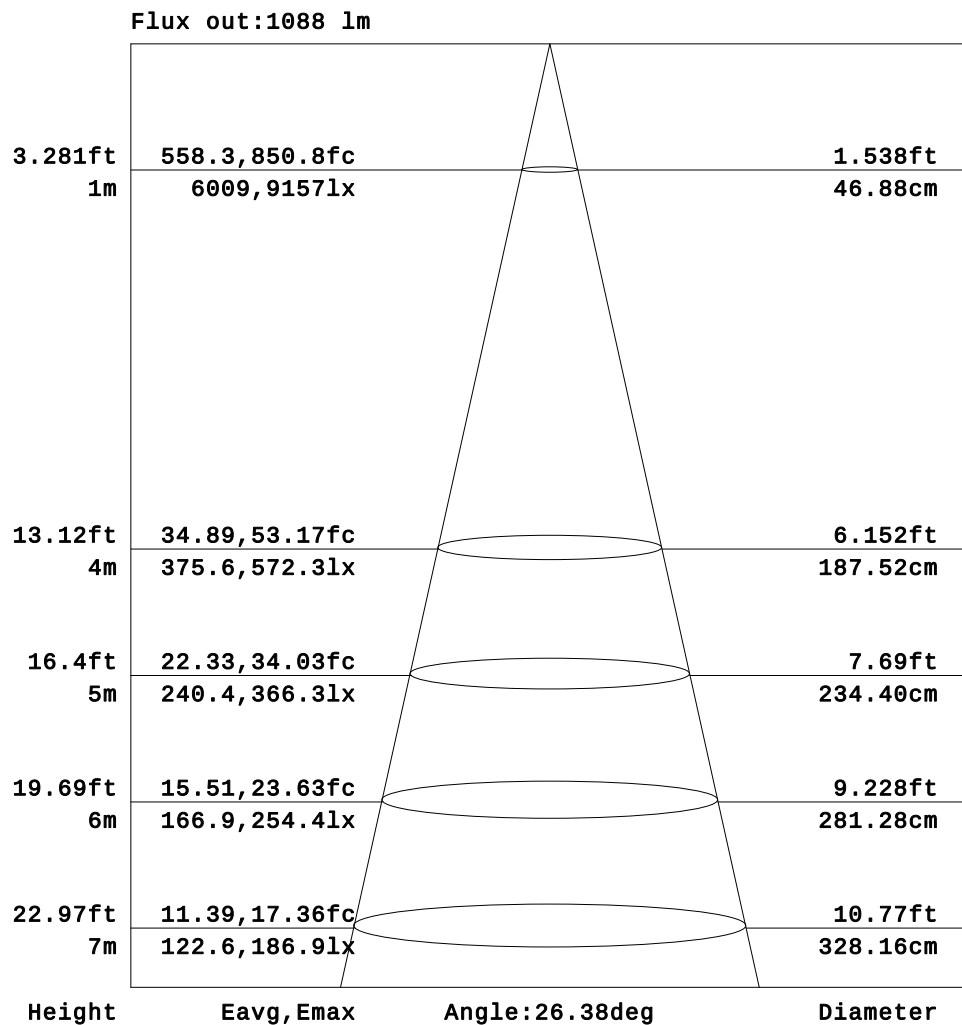


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-30

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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.:2024080132
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

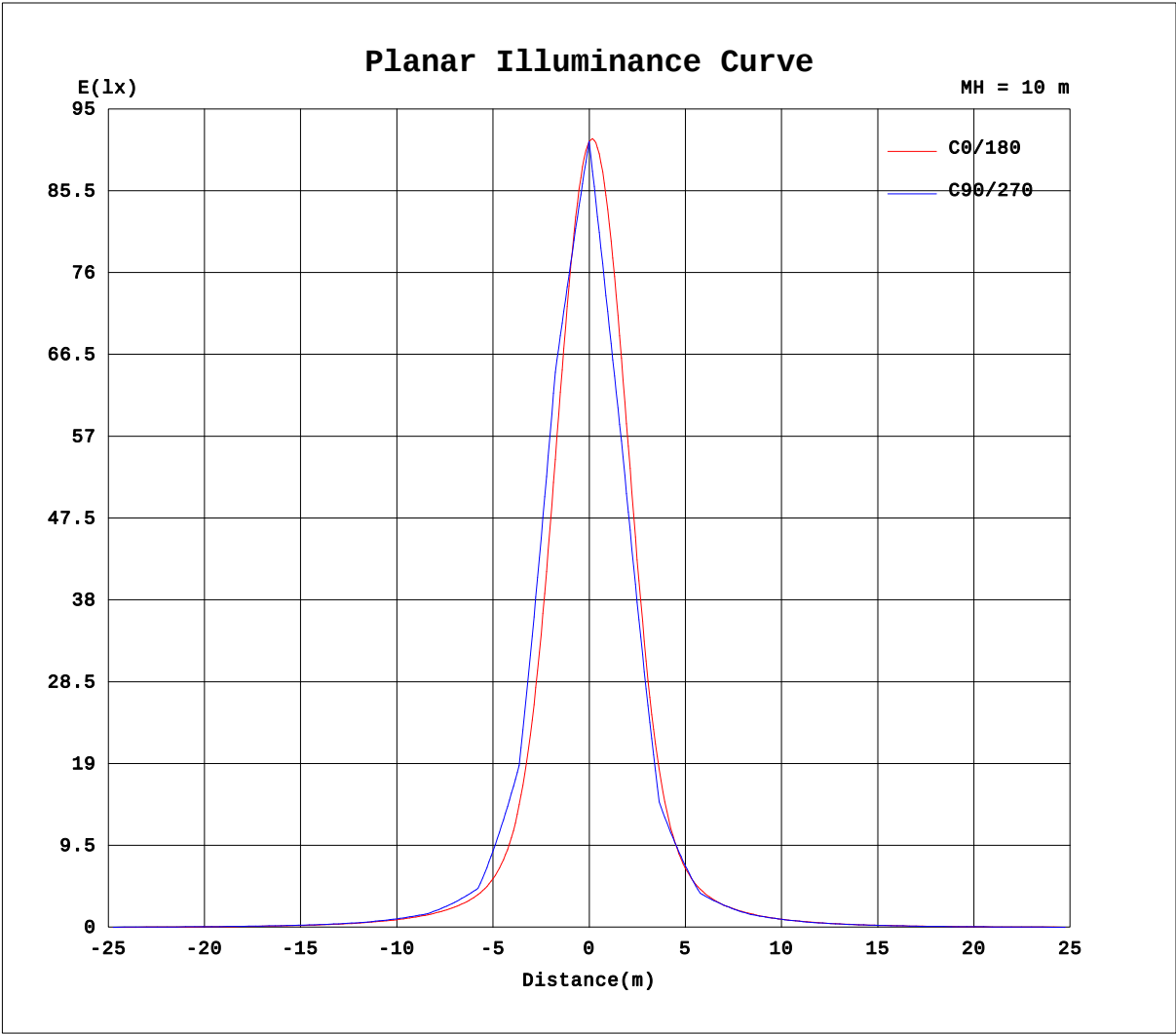


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2024080132
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	3.06	6.84	10.2	13.5	16.7	19.2	21.2	22.9	24.3	25.5	26.2
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94	9.05	16.4	23.0	29.7	35.6	40.1	43.8	47.0	49.7	51.8	52.6
-65	0.00	0.00	0.00	0.00	0.00	0.39	6.82	12.9	21.7	31.7	41.9	51.5	60.3	67.9	74.5	80.3	84.8	87.8	89.1
-60	0.00	0.00	0.00	0.00	0.00	5.90	18.7	30.4	42.1	55.3	68.7	80.7	91.4	101	110	118	123	125	125
-55	0.00	0.00	0.00	0.00	0.47	9.63	24.8	39.5	55.2	72.3	89.4	105	119	132	143	153	161	167	169
-50	0.00	0.00	0.00	0.00	7.53	25.8	42.8	60.9	81.6	103	123	140	157	172	185	196	205	211	213
-45	0.00	0.00	0.00	0.00	7.39	27.2	47.0	68.1	92.1	117	140	162	186	209	231	251	269	281	286
-40	0.00	0.00	0.00	1.82	22.6	44.6	67.6	94.1	123	149	175	203	233	264	293	320	344	356	359
-35	0.00	0.00	0.00	1.63	20.0	44.2	69.5	98.1	129	161	193	231	273	319	369	422	476	515	531
-30	0.00	0.00	0.00	12.2	36.8	63.2	93.4	127	161	198	240	292	349	414	487	567	643	692	700
-25	0.00	0.00	0.00	6.25	30.6	58.7	90.2	125	161	201	249	311	387	487	637	854	1130	1380	1488
-20	0.00	0.00	0.00	18.7	46.4	78.3	114	152	192	240	304	388	497	667	941	1352	1839	2200	2246
-15	0.00	0.00	0.00	10.5	36.8	68.8	105	143	184	234	298	385	510	728	1161	1959	3068	4090	4520
-10	0.00	0.00	0.03	22.0	51.4	87.4	126	166	213	275	356	471	666	1067	1933	3405	5200	6508	6676
-5	0.00	0.00	0.00	12.4	39.7	74.4	113	151	196	254	329	432	601	945	1720	3243	5336	7199	7963
0	0.00	0.00	0.03	23.5	53.9	91.8	131	170	221	286	376	506	750	1303	2520	4672	7129	8839	9023
5	0.00	0.00	0.00	12.3	39.4	73.8	112	151	195	252	327	428	591	919	1645	3061	4999	6741	7451
10	0.00	0.00	0.03	21.4	50.6	86.2	125	165	212	273	350	458	637	987	1712	2922	4418	5528	5653
15	0.00	0.00	0.00	10.1	35.9	67.4	103	141	183	231	294	377	491	682	1040	1682	2570	3412	3753
20	0.00	0.00	0.00	17.9	45.2	76.4	112	149	189	237	297	375	472	609	817	1114	1464	1725	1736
25	0.00	0.00	0.00	6.18	29.3	56.9	87.9	122	158	198	244	302	370	456	575	736	936	1120	1188
30	0.00	0.00	0.00	11.4	35.2	61.2	90.4	123	157	193	233	280	333	388	450	512	569	604	605
35	0.00	0.00	0.00	1.79	19.7	43.5	68.2	96.0	127	159	190	225	264	305	349	393	432	463	473
40	0.00	0.00	0.00	4.13	23.0	45.0	67.4	93.1	121	148	173	199	228	256	283	306	324	336	335
45	0.00	0.00	0.00	0.00	8.72	27.2	46.8	67.3	90.5	115	137	159	181	203	224	242	256	266	270
50	0.00	0.00	0.00	0.00	8.34	24.8	42.1	59.6	79.4	101	119	136	152	167	180	190	197	201	202
55	0.00	0.00	0.00	0.00	1.36	9.61	23.7	37.9	53.4	69.6	85.7	100	114	126	138	147	154	158	159
60	0.00	0.00	0.00	0.00	0.00	5.49	16.5	28.6	40.0	51.9	64.3	75.3	85.2	94.6	103	111	115	117	115
65	0.00	0.00	0.00	0.00	0.00	0.66	6.05	11.8	20.0	28.6	37.9	46.8	55.0	62.2	68.4	73.4	76.7	78.8	79.3
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	6.65	12.7	18.9	25.2	30.9	35.0	37.7	39.3	40.5	41.9	42.4
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	5.12	8.22	11.3	14.4	16.8	18.4	19.4	20.0	20.7	21.2
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	26.2	25.7	24.6	23.1	20.7	17.9	15.1	12.1	9.04	5.93	2.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	52.2	50.6	48.1	44.4	39.2	33.6	27.8	21.8	15.6	9.02	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	88.4	86.5	83.3	78.9	72.9	65.2	56.4	47.0	37.7	28.6	18.9	10.2	4.20	0.00	0.00	0.00	0.00	0.00
-60	124	120	115	109	101	89.9	77.3	64.7	52.6	40.6	28.1	15.6	3.61	0.00	0.00	0.00	0.00	0.00
-55	168	164	158	149	139	126	112	96.4	79.9	63.9	48.2	32.4	17.7	5.40	0.00	0.00	0.00	0.00
-50	210	204	194	181	167	152	135	115	94.2	74.6	55.8	37.0	20.6	4.61	0.00	0.00	0.00	0.00
-45	284	275	261	241	220	197	174	151	126	102	79.1	56.6	35.4	17.0	2.03	0.00	0.00	0.00
-40	352	337	313	284	255	223	194	166	139	111	84.3	58.5	35.0	15.4	0.00	0.00	0.00	0.00
-35	519	481	432	379	330	283	241	204	169	138	108	78.9	50.9	27.6	6.87	0.00	0.00	0.00
-30	660	588	509	434	368	307	256	212	174	141	108	76.2	46.9	22.9	1.10	0.00	0.00	0.00
-25	1389	1132	854	638	492	392	317	258	209	168	132	97.6	63.9	35.8	12.1	0.00	0.00	0.00
-20	1938	1448	1009	712	529	412	329	263	209	166	128	91.3	56.8	29.4	5.24	0.00	0.00	0.00
-15	4132	3115	1987	1189	748	522	395	310	244	192	150	112	74.2	42.7	16.4	0.00	0.00	0.00
-10	5615	3848	2230	1242	753	516	388	299	233	182	142	102	64.4	34.5	8.42	0.00	0.00	0.00
-5	7236	5385	3271	1757	968	615	444	339	263	204	160	119	79.0	46.3	18.5	0.00	0.00	0.00
0	7572	5184	2913	1488	835	551	406	313	242	189	145	103	65.6	35.3	8.43	0.00	0.00	0.00
5	6757	5030	3078	1669	931	601	438	336	261	204	159	117	78.1	46.0	18.1	0.00	0.00	0.00
10	4740	3256	1941	1114	699	497	379	295	231	181	139	98.9	63.2	34.1	7.28	0.00	0.00	0.00
15	3411	2592	1705	1058	691	497	384	303	240	189	148	108	71.8	41.9	14.9	0.00	0.00	0.00
20	1504	1176	874	649	498	394	318	257	205	163	124	87.2	54.9	27.7	3.25	0.00	0.00	0.00
25	1103	927	738	578	461	373	306	251	204	164	128	92.8	60.6	33.8	9.50	0.00	0.00	0.00
30	574	523	464	404	349	294	247	206	169	137	104	71.4	43.9	19.8	0.00	0.00	0.00	0.00
35	461	432	394	352	310	267	229	194	162	131	102	71.9	45.6	22.8	3.32	0.00	0.00	0.00
40	327	311	291	266	237	209	183	156	129	102	75.7	50.1	28.3	9.10	0.00	0.00	0.00	0.00
45	266	256	243	225	205	184	162	139	115	92.6	69.9	47.6	27.9	10.3	0.01	0.00	0.00	0.00
50	198	191	182	169	156	141	123	103	83.6	64.7	46.0	28.8	13.0	0.00	0.00	0.00	0.00	0.00
55	157	152	145	137	126	114	100	84.4	68.9	53.8	38.3	23.3	10.0	2.06	0.00	0.00	0.00	0.00
60	112	108	103	96.3	87.8	76.6	64.8	53.3	42.1	30.6	18.2	7.05	0.00	0.00	0.00	0.00	0.00	0.00
65	77.9	75.3	71.6	66.7	60.7	53.3	44.7	36.2	27.5	18.7	11.6	5.59	0.48	0.00	0.00	0.00	0.00	0.00
70	41.7	39.9	36.8	32.5	28.1	23.2	17.9	12.2	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	21.1	20.4	19.1	17.2	14.9	12.6	10.0	7.31	4.23	1.07	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: