

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

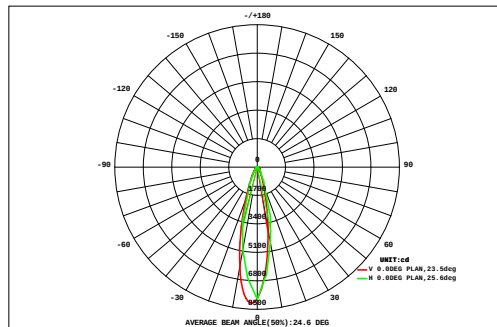
Maximum Intensity (Luminaire orientation as tested.)		3506.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	54.0V x 50.5H
	At 50% of Imax	25.2V x 23.5H
	At 90% of Imax	6.2V x 9.0H
Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	710.8 lumens per klm.
	To 50% of Imax	313.9 lumens per klm.
	To 90% of Imax	31.5 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:220.8V I:0.3305A P:46.90W PF:0.6428 Lamp Flux:2314.34x1 lm		
NAME: 8.03.007.0159 30°SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080131
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:49.35lm/W	
MODELSP-DKP-F170-24P-RDM	Imax(cd)	8114	
NOMINAL POWER(W)	46	AVAILABILITY(%)	71.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1654
NOMINAL FLUX(lm)	2314.34	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2314
TEST VOLTAGE(V)	220.8	θ @50%(H,V)	24, 25DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	45	0.53	0.68	0.84	1.00	1.17	1.34	1.48	1.59	1.64	1.63	1.56	1.44	1.29	1.12	0.95	0.79	0.64	0.50	20.2	0.00	
	40	0.70	0.89	1.09	1.31	1.53	1.73	1.91	2.02	2.05	1.99	1.86	1.68	1.47	1.26	1.05	0.85	0.67	0.51	24.6	0.00	
	35	0.72	0.96	1.23	1.55	1.92	2.34	2.75	3.09	3.27	3.24	3.01	2.65	2.24	1.83	1.48	1.18	0.92	0.70	35.1	0.00	
	30	0.95	1.26	1.63	2.08	2.61	3.19	3.74	4.12	4.24	4.04	3.61	3.06	2.47	1.97	1.55	1.21	0.92	0.68	43.4	0.00	
	25	0.92	1.26	1.73	2.39	3.32	4.60	6.21	7.81	8.79	8.64	7.46	5.83	4.32	3.13	2.28	1.68	1.24	0.91	72.5	38.4	
	20	1.22	1.70	2.42	3.46	4.98	7.07	9.53	11.6	12.3	11.2	8.88	6.49	4.55	3.18	2.26	1.63	1.19	0.84	94.4	65.2	
	15	1.09	1.56	2.27	3.45	5.51	9.28	15.5	23.3	28.9	28.4	22.2	14.7	8.89	5.39	3.42	2.28	1.57	1.11	179	156	
	10	1.45	2.14	3.29	5.33	9.14	16.3	27.1	38.0	42.1	36.3	25.0	14.8	8.36	4.92	3.08	2.03	1.39	0.97	242	221	
	5	1.17	1.71	2.59	4.12	7.13	13.3	24.9	41.0	53.6	53.7	41.4	25.6	13.9	7.46	4.33	2.70	1.78	1.22	302	281	
	0	1.52	2.33	3.73	6.43	12.1	23.5	42.3	61.4	68.3	57.7	37.8	20.5	10.4	5.60	3.34	2.15	1.46	1.01	362	342	
	-5	1.13	1.63	2.39	3.66	5.95	10.5	19.0	31.6	43.1	45.3	36.5	23.5	13.2	7.25	4.26	2.67	1.76	1.20	255	233	
	-10	1.40	2.06	3.13	5.02	8.48	14.9	23.7	31.7	34.1	28.8	19.3	11.6	6.93	4.34	2.83	1.91	1.32	0.93	202	180	
	-15	0.99	1.38	1.92	2.72	3.93	5.85	9.12	13.8	18.2	19.7	17.2	12.2	7.88	4.97	3.23	2.18	1.51	1.06	128	102	
	-20	1.14	1.57	2.20	3.07	4.23	5.54	6.56	6.72	5.88	4.87	4.08	3.65	3.12	2.50	1.91	1.44	1.08	0.78	60.4	22.6	
	-25	0.80	1.08	1.42	1.87	2.44	3.19	4.15	5.24	6.16	6.45	5.95	4.93	3.82	2.84	2.11	1.57	1.17	0.86	56.0	12.5	
	-30	0.86	1.13	1.43	1.78	2.14	2.44	2.58	2.52	2.33	2.17	2.08	1.98	1.80	1.54	1.28	1.04	0.82	0.62	30.5	0.00	
	-35	0.62	0.80	1.01	1.25	1.52	1.81	2.11	2.38	2.57	2.61	2.50	2.27	1.96	1.64	1.34	1.08	0.85	0.65	29.0	0.00	
	-40	0.62	0.78	0.94	1.10	1.25	1.37	1.46	1.49	1.47	1.42	1.34	1.25	1.13	1.01	0.88	0.73	0.58	0.44	19.3	0.00	
-45	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)				10	15	20	25	30	35	40	45		
Φ t	17.8	24.9	35.3	51.6	79.3	128	204	289	339	318	242	158	97.7	61.9	41.6	29.1	20.9	15.0	2154	---		
Φ a	0.00	0.00	0.00	9.60	43.5	99.5	178	267	317	298	220	131	68.1	21.3	0.23	0.00	0.00	0.00	---	1654		

one-half-peak spread: U:13.3,D:12.2 , L:12.3,R:11.4

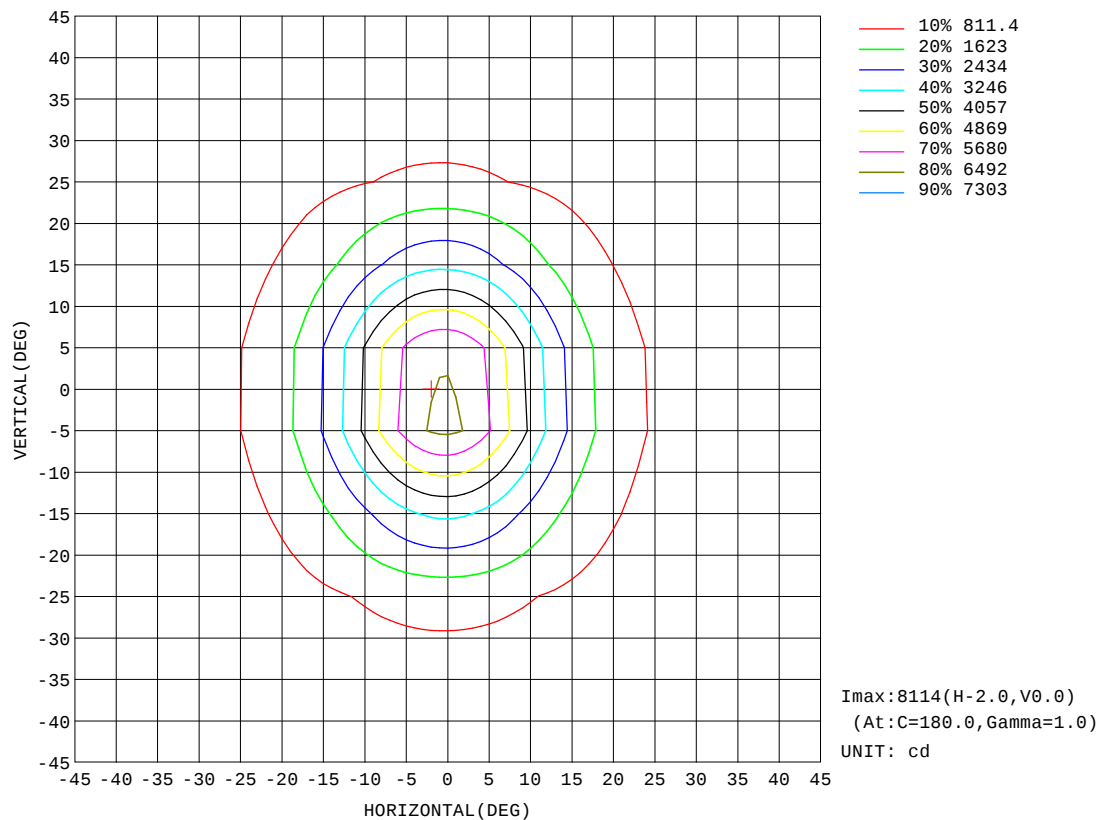
NEMA Beam Type: Type 4

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: 8.03.007.0159 30°SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080131
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

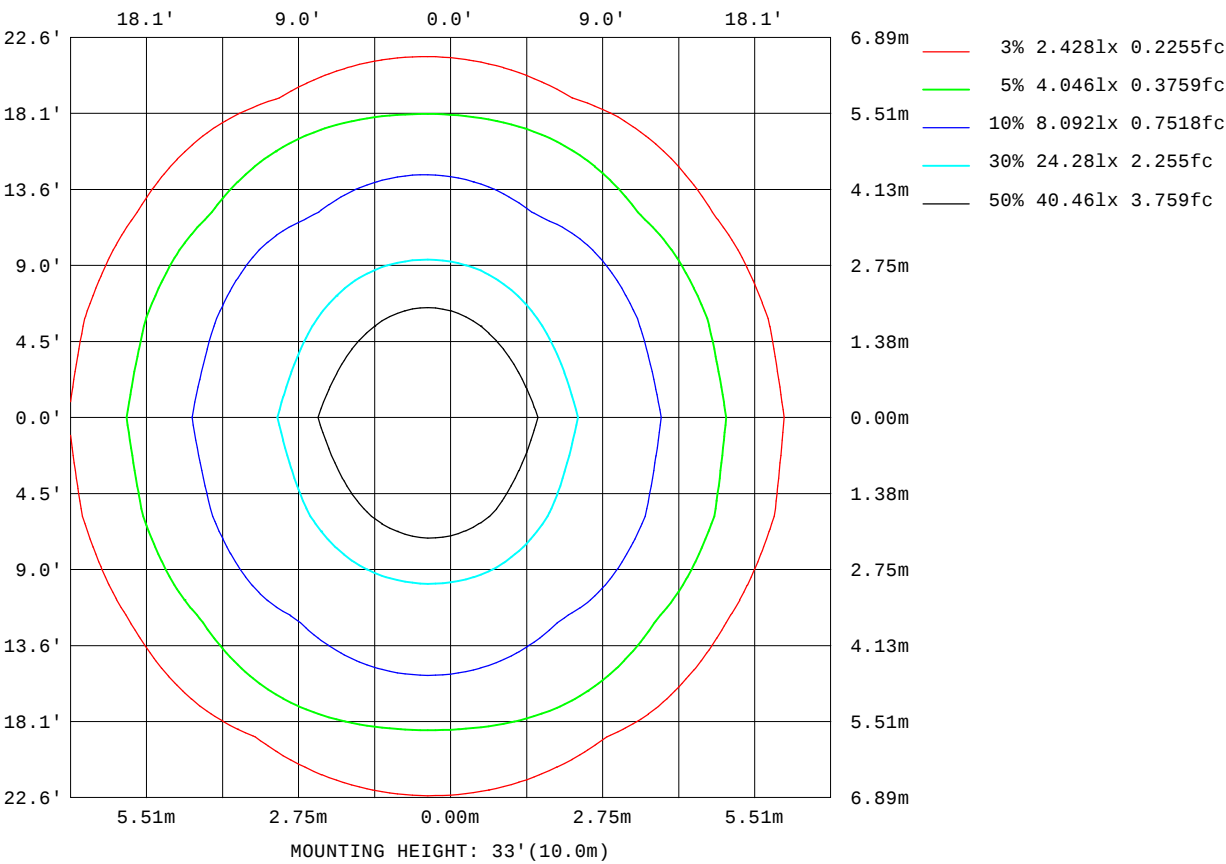


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ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024080131
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

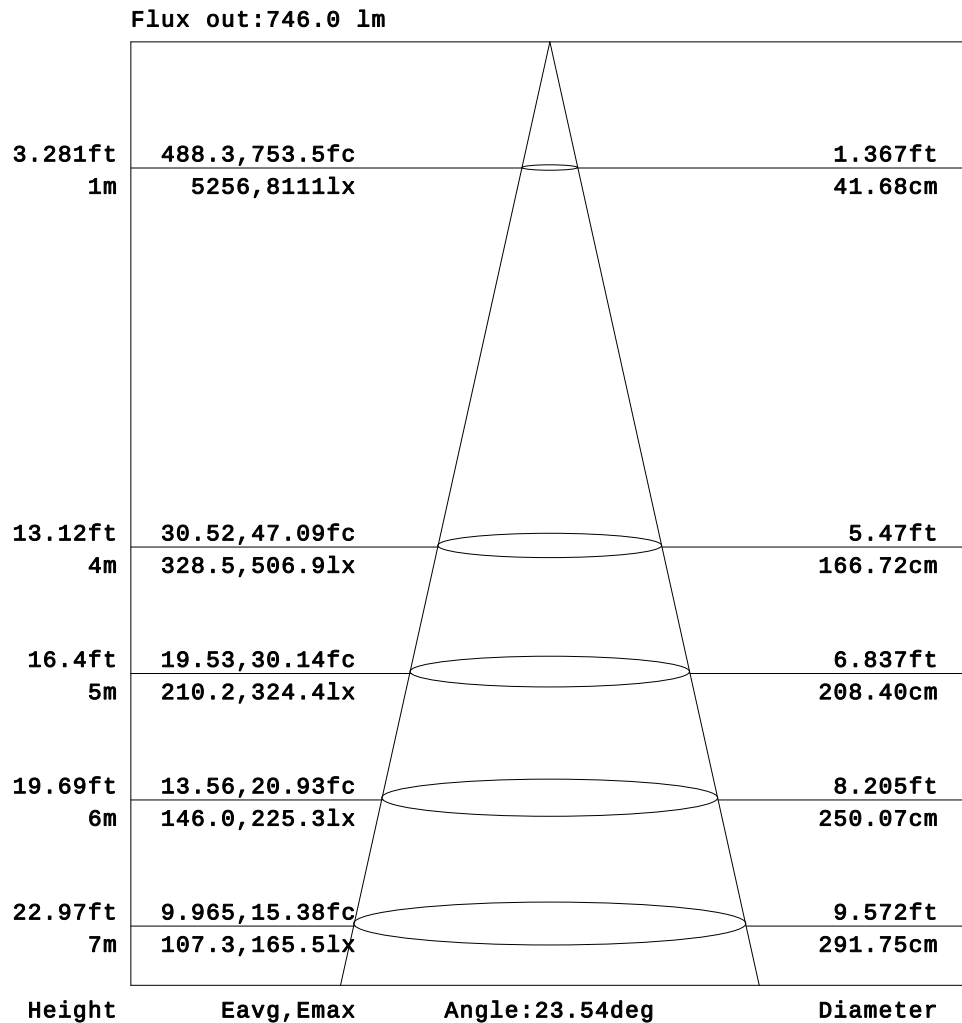


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H(β) Interval: 1.0DEG
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Operators:QC1
Test Date:2024-08-30

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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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DIM.:	SPEC.:	SERIAL No.:2024080131
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

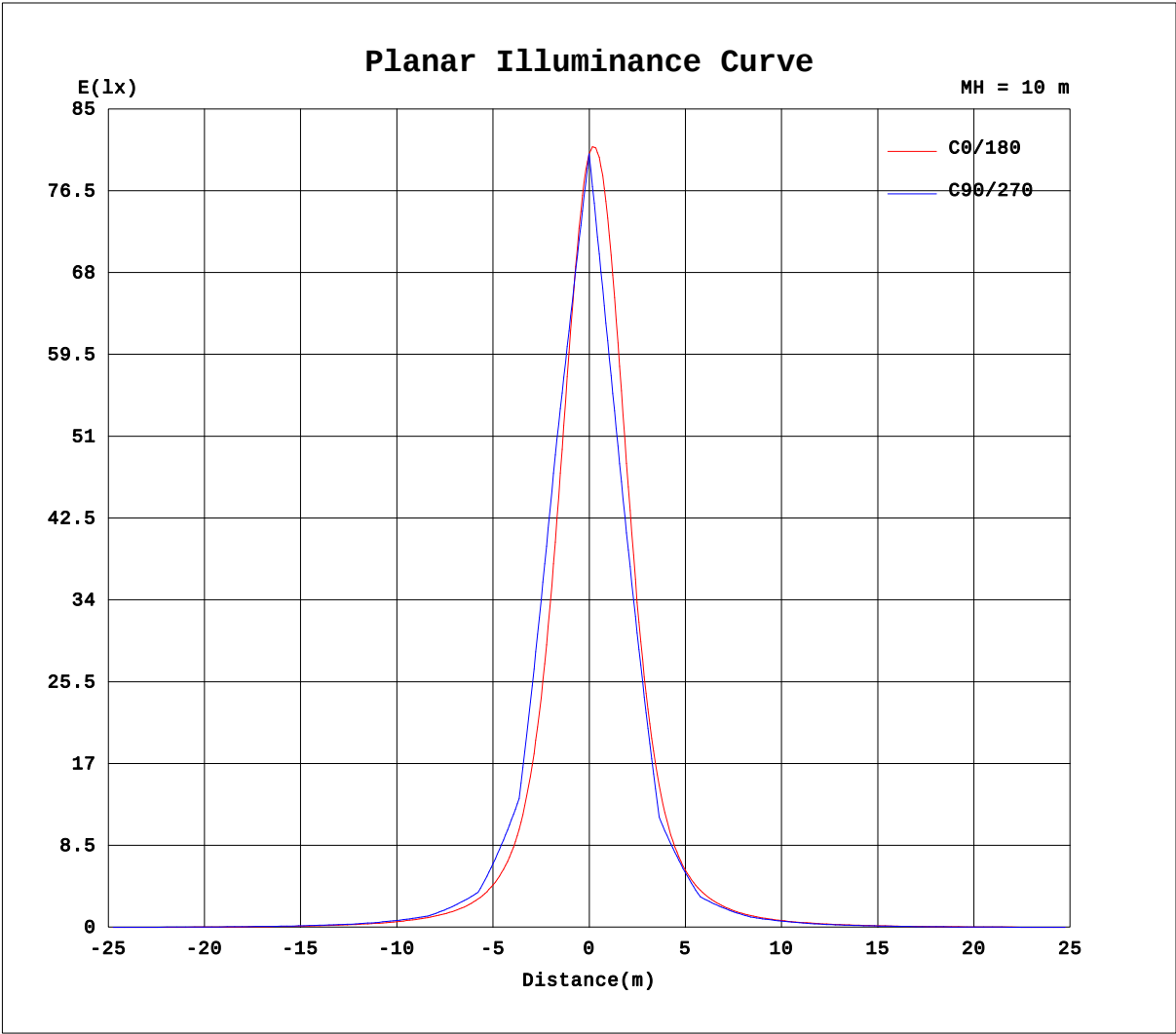


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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H(β) Interval: 1.0DEG
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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.:2024080131
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	1.90	4.71	7.20	8.89	10.1	11.1	11.6	11.8	12.2	12.5	12.4
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	6.06	11.6	15.9	18.9	21.1	22.6	23.4	23.9	24.6	24.9	24.5
-65	0.00	0.00	0.00	0.00	0.00	0.00	3.12	7.95	15.3	23.5	30.7	36.0	40.3	44.0	46.8	48.9	50.8	51.9	52.0
-60	0.00	0.00	0.00	0.00	0.00	0.23	9.47	20.1	31.2	41.5	50.0	56.9	62.8	67.9	71.9	75.4	78.0	79.4	78.9
-55	0.00	0.00	0.00	0.00	0.00	2.83	13.3	26.3	39.2	51.7	63.2	73.5	82.8	91.4	98.9	105	110	114	114
-50	0.00	0.00	0.00	0.00	0.01	11.5	26.8	42.9	57.4	71.4	84.9	97.9	110	121	131	139	146	149	149
-45	0.00	0.00	0.00	0.00	0.66	11.3	29.0	46.8	64.1	81.4	98.6	116	133	150	168	183	197	205	208
-40	0.00	0.00	0.00	0.00	7.25	25.6	45.3	64.7	84.5	105	126	148	170	194	217	239	256	265	265
-35	0.00	0.00	0.00	0.00	3.82	22.7	44.6	65.9	88.6	113	138	168	201	239	284	330	374	405	416
-30	0.00	0.00	0.00	0.01	15.2	38.4	60.8	85.0	112	140	174	213	261	320	387	458	521	559	561
-25	0.00	0.00	0.00	0.00	10.4	33.9	58.0	83.7	112	144	182	232	299	390	516	684	874	1038	1094
-20	0.00	0.00	0.00	1.42	24.7	49.0	75.2	105	138	176	228	298	402	552	769	1059	1375	1592	1596
-15	0.00	0.00	0.00	0.02	16.6	41.8	68.0	97.5	131	172	226	301	419	610	943	1512	2307	3086	3401
-10	0.00	0.00	0.00	6.60	28.9	54.8	83.5	117	155	207	277	386	566	893	1500	2559	3919	4984	5060
-5	0.00	0.00	0.00	0.42	19.8	45.6	73.3	105	142	189	253	352	513	809	1392	2508	4229	5977	6646
0	0.00	0.00	0.00	7.97	31.2	57.6	87.4	122	163	217	296	427	655	1101	2013	3694	6049	7868	7876
5	0.00	0.00	0.00	0.42	19.8	45.5	73.1	105	142	188	252	349	509	799	1365	2446	4115	5803	6412
10	0.00	0.00	0.00	6.62	28.8	54.5	83.0	116	154	205	274	379	554	862	1423	2393	3642	4582	4574
15	0.00	0.00	0.00	0.02	17.0	41.5	67.5	96.8	131	171	223	296	409	589	895	1409	2124	2812	3050
20	0.00	0.00	0.00	4.40	24.4	48.6	74.5	104	137	175	224	290	387	523	716	959	1211	1374	1362
25	0.00	0.00	0.00	0.00	12.2	34.1	57.6	82.9	111	143	180	227	289	371	484	626	781	906	942
30	0.00	0.00	0.00	0.03	16.3	38.2	60.6	84.2	110	138	171	208	251	302	359	417	466	492	489
35	0.00	0.00	0.00	0.00	6.07	23.9	45.0	66.0	87.8	111	136	164	194	228	266	305	340	363	369
40	0.00	0.00	0.00	0.00	8.86	26.2	46.1	65.0	83.8	103	123	143	164	185	205	223	236	243	241
45	0.00	0.00	0.00	0.00	1.51	13.0	29.8	47.4	64.3	80.5	96.3	112	127	143	158	171	182	188	190
50	0.00	0.00	0.00	0.00	0.12	12.8	27.5	43.7	57.9	70.7	82.4	93.0	103	113	122	129	134	136	136
55	0.00	0.00	0.00	0.00	0.00	3.83	14.3	27.2	39.4	51.1	61.6	70.5	78.2	85.2	91.3	96.4	100	103	103
60	0.00	0.00	0.00	0.00	0.00	1.47	11.3	20.7	30.3	40.2	48.4	54.4	59.1	62.7	65.2	67.5	69.3	70.1	69.6
65	0.00	0.00	0.00	0.00	0.00	0.00	3.70	8.52	14.5	22.1	28.9	34.1	37.8	40.2	41.6	42.7	43.8	44.7	44.7
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.79	9.78	13.9	17.2	18.7	19.0	18.9	18.8	19.2	19.5	19.1
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	3.92	6.15	8.03	9.14	9.50	9.51	9.38	9.49	9.71	9.69
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.:2024080131
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	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	11.9	11.0	10.1	9.50	8.84	7.98	6.61	4.32	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	23.1	21.3	19.7	18.5	17.1	15.1	11.5	6.69	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	50.8	48.5	45.5	42.5	39.3	35.5	30.9	24.7	17.1	10.1	5.54	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	77.0	73.5	68.9	64.1	58.7	52.6	45.6	36.9	26.3	16.6	7.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	113	108	102	94.8	86.6	77.5	67.8	57.2	45.3	33.2	20.8	8.28	1.27	0.00	0.00	0.00	0.00	0.00	0.00
-50	145	139	130	119	107	94.8	81.7	68.3	54.6	40.2	24.0	9.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	204	194	179	162	145	127	110	92.1	74.7	57.6	40.3	22.9	7.38	0.00	0.00	0.00	0.00	0.00	0.00
-40	255	238	216	191	168	145	123	102	81.1	61.5	42.4	22.7	6.25	0.00	0.00	0.00	0.00	0.00	0.00
-35	402	368	323	275	230	192	160	131	105	81.4	59.2	38.2	17.9	2.58	0.00	0.00	0.00	0.00	0.00
-30	525	463	391	319	260	211	172	139	110	83.4	59.1	37.0	15.2	0.00	0.00	0.00	0.00	0.00	0.00
-25	1015	845	655	494	370	283	220	173	136	104	76.0	51.3	28.1	7.64	0.00	0.00	0.00	0.00	0.00
-20	1383	1072	781	558	404	300	228	176	135	102	72.6	47.1	22.7	3.25	0.00	0.00	0.00	0.00	0.00
-15	3018	2191	1415	887	577	397	285	213	162	123	89.6	61.1	35.9	12.3	0.00	0.00	0.00	0.00	0.00
-10	4053	2637	1559	925	582	392	277	206	155	116	82.9	54.5	28.7	6.81	0.00	0.00	0.00	0.00	0.00
-5	5732	3913	2278	1261	744	477	327	237	177	133	96.8	66.3	39.7	14.7	0.00	0.00	0.00	0.00	0.00
0	6073	3753	2036	1096	650	422	295	216	161	119	85.1	56.1	29.8	7.30	0.00	0.00	0.00	0.00	0.00
5	5500	3749	2185	1214	720	465	321	234	176	132	96.1	66.0	39.6	14.6	0.00	0.00	0.00	0.00	0.00
10	3597	2377	1422	855	548	374	269	201	153	114	81.8	54.2	28.5	6.60	0.00	0.00	0.00	0.00	0.00
15	2677	1940	1263	804	532	373	272	206	158	120	88.0	60.5	35.4	12.0	0.00	0.00	0.00	0.00	0.00
20	1179	922	682	498	369	281	218	170	131	99.0	71.3	46.4	22.1	3.03	0.00	0.00	0.00	0.00	0.00
25	870	727	571	437	337	263	209	166	130	101	74.5	50.6	27.5	7.44	0.00	0.00	0.00	0.00	0.00
30	457	405	347	288	239	198	163	132	105	80.7	58.2	36.5	14.9	0.00	0.00	0.00	0.00	0.00	0.00
35	354	325	288	247	211	179	150	124	100	78.8	58.3	37.7	17.7	2.51	0.00	0.00	0.00	0.00	0.00
40	232	216	197	177	155	135	115	95.8	77.9	60.3	42.1	22.4	6.35	0.00	0.00	0.00	0.00	0.00	0.00
45	185	176	163	148	133	117	102	86.7	71.5	55.9	39.2	22.6	7.64	0.00	0.00	0.00	0.00	0.00	0.00
50	132	125	117	107	97.4	87.1	76.6	65.4	52.8	38.4	23.0	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	101	97.0	91.4	85.3	78.3	70.8	62.4	53.0	42.4	31.5	19.1	7.50	1.45	0.00	0.00	0.00	0.00	0.00	0.00
60	67.6	64.5	61.2	57.7	53.4	48.0	40.8	32.2	23.6	15.0	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	43.5	41.4	39.0	36.9	34.4	31.2	26.4	20.3	13.8	9.29	4.65	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	17.8	16.3	15.1	14.2	13.1	11.0	7.31	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	9.23	8.44	7.75	7.28	6.77	6.05	4.42	2.42	0.37	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
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

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: