

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

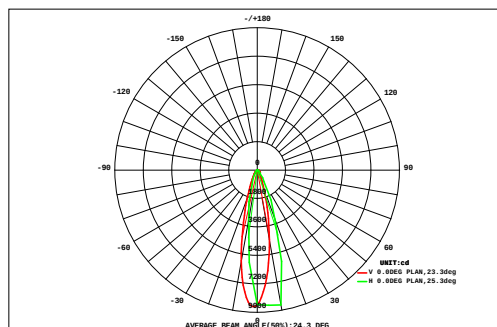
Maximum Intensity (Luminaire orientation as tested.)		3304.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	51.1V x 49.1H
	At 50% of Imax	25.4V x 23.3H
	At 90% of Imax	14.1V x 8.9H
Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	724.9 lumens per klm.
	To 50% of Imax	369.8 lumens per klm.
	To 90% of Imax	101.5 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:27.1DEG
Operators:QC1
Test Date:2023-12-29

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.0V I:0.2647A P:44.54W PF:0.6075 Lamp Flux:2623.74x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120061
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:58.91lm/W	
MODEL	DKP-F170-24P-RDM-AL	Imax(cd)	8669
NOMINAL POWER(W)	44	AVAILABILITY(%)	72.9
RATED VOLTAGE(V)	276	Avai. FLUX(lm)	1913
NOMINAL FLUX(lm)	2623.74	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2624
TEST VOLTAGE(V)	277.0	θ @50%(H,V)	23,25DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.66	0.86	1.08	1.32	1.58	1.83	2.08	2.26	2.34	2.31	2.17	1.96	1.71	1.46	1.23	1.02	0.83	0.65	27.3	0.00
45	0.76	1.00	1.27	1.57	1.90	2.23	2.57	2.81	2.93	2.88	2.68	2.39	2.06	1.73	1.44	1.18	0.94	0.73	33.1	0.00
40	0.89	1.19	1.58	2.07	2.68	3.46	4.35	5.15	5.57	5.42	4.77	3.89	3.03	2.34	1.79	1.39	1.08	0.83	51.5	0.00
35	1.00	1.37	1.85	2.48	3.31	4.42	5.71	6.89	7.53	7.31	6.33	5.03	3.80	2.83	2.10	1.58	1.21	0.92	65.7	22.3
30	1.12	1.58	2.27	3.31	5.04	7.92	12.3	17.2	20.3	19.4	15.0	9.89	6.17	3.92	2.62	1.85	1.36	1.01	132	105
25	1.23	1.78	2.64	4.01	6.40	10.6	17.1	24.7	29.5	28.1	21.3	13.5	8.00	4.81	3.07	2.10	1.50	1.09	181	157
20	1.30	1.93	2.95	4.77	8.37	15.6	28.1	43.7	54.5	52.5	38.6	22.4	11.4	6.01	3.52	2.28	1.57	1.13	301	279
15	1.39	2.09	3.27	5.51	10.1	19.8	37.1	58.9	74.2	71.7	52.3	29.6	14.3	7.11	3.97	2.48	1.67	1.18	397	376
10	1.37	2.07	3.23	5.35	9.62	18.2	33.6	52.8	64.8	60.2	43.4	25.3	12.8	6.53	3.74	2.38	1.63	1.16	348	327
5	1.38	2.11	3.30	5.49	9.86	18.6	34.3	53.9	65.1	58.9	42.1	24.9	12.8	6.51	3.73	2.38	1.64	1.16	348	327
0	1.27	1.87	2.81	4.40	7.22	12.2	20.2	29.4	34.6	32.1	24.0	15.1	8.66	5.02	3.15	2.12	1.49	1.08	207	183
-5	1.20	1.72	2.51	3.71	5.54	8.12	11.0	13.4	14.3	13.8	11.5	8.48	5.90	4.03	2.76	1.95	1.40	1.03	112	80.1
-10	1.06	1.49	2.10	2.99	4.27	6.10	8.42	10.6	11.7	11.0	8.98	6.56	4.56	3.18	2.28	1.67	1.24	0.93	89.3	56.3
-15	0.95	1.29	1.73	2.27	2.86	3.38	3.63	3.50	3.28	3.14	3.13	3.05	2.74	2.28	1.82	1.43	1.11	0.85	42.5	1.59
-20	0.82	1.12	1.46	1.89	2.41	2.99	3.59	4.05	4.22	4.05	3.60	3.04	2.46	1.96	1.55	1.23	0.96	0.74	42.1	0.00
-25	0.70	0.93	1.16	1.40	1.63	1.83	1.96	2.03	2.04	2.02	1.97	1.86	1.66	1.45	1.23	1.02	0.82	0.64	26.3	0.00
-30	0.59	0.78	0.98	1.19	1.41	1.63	1.81	1.95	2.00	1.95	1.83	1.65	1.44	1.24	1.04	0.86	0.70	0.55	23.6	0.00
-35	0.48	0.61	0.76	0.89	1.01	1.10	1.17	1.22	1.24	1.23	1.19	1.12	1.03	0.92	0.81	0.69	0.57	0.45	16.5	0.00
-40	0.48	0.61	0.76	0.89	1.01	1.10	1.17	1.22	1.24	1.23	1.19	1.12	1.03	0.92	0.81	0.69	0.57	0.45	16.5	0.00
-45	0.48	0.61	0.76	0.89	1.01	1.10	1.17	1.22	1.24	1.23	1.19	1.12	1.03	0.92	0.81	0.69	0.57	0.45	16.5	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
Φ t	18.1	25.8	36.9	54.6	85.2	140	229	334	400	378	285	180	105	63.3	41.8	29.6	21.7	16.1	2444	---
Φ a	0.00	0.00	0.00	6.72	50.4	112	202	310	377	353	258	152	72.7	18.4	0.00	0.00	0.00	0.00	---	1913

one-half-peak spread: U:17.7,D:7.9 , L:11.7,R:11.8

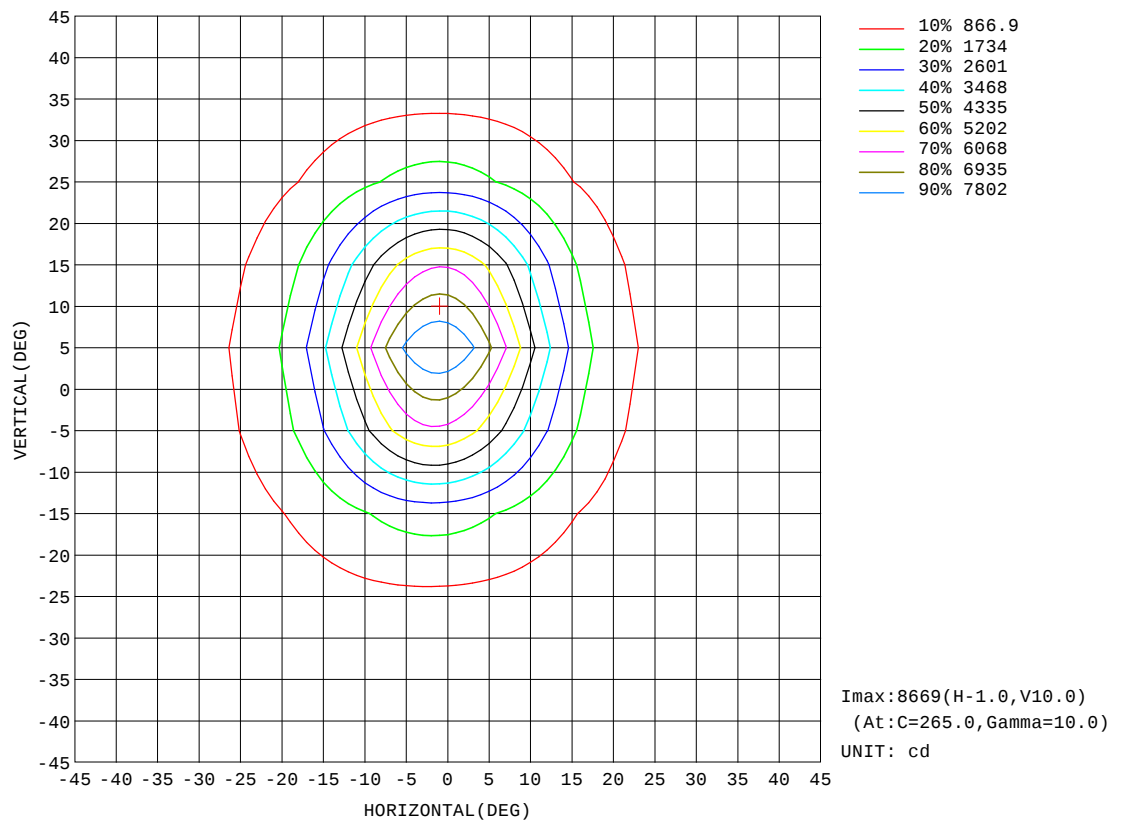
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:27.1DEG
 Operators:QC1
 Test Date:2023-12-29

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:61%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

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NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120061
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

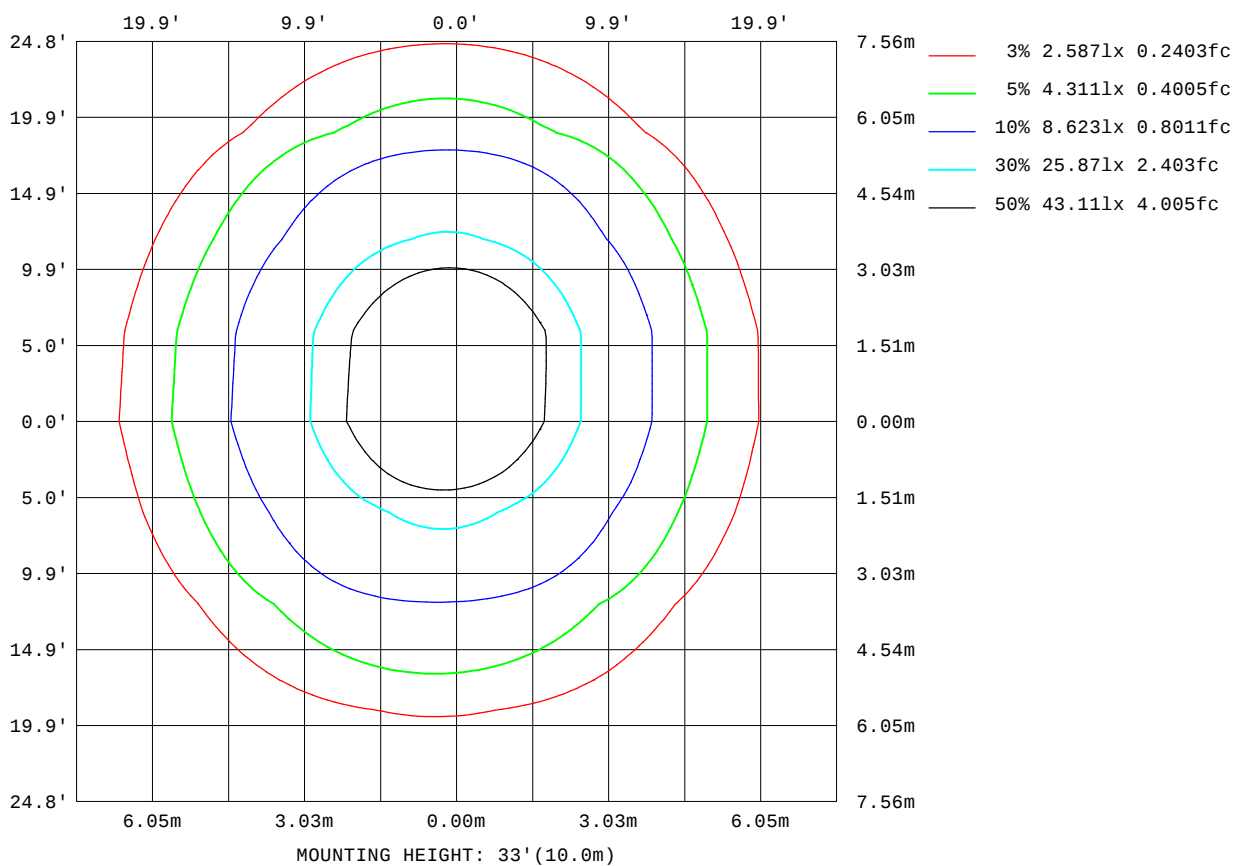


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Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2023120061
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

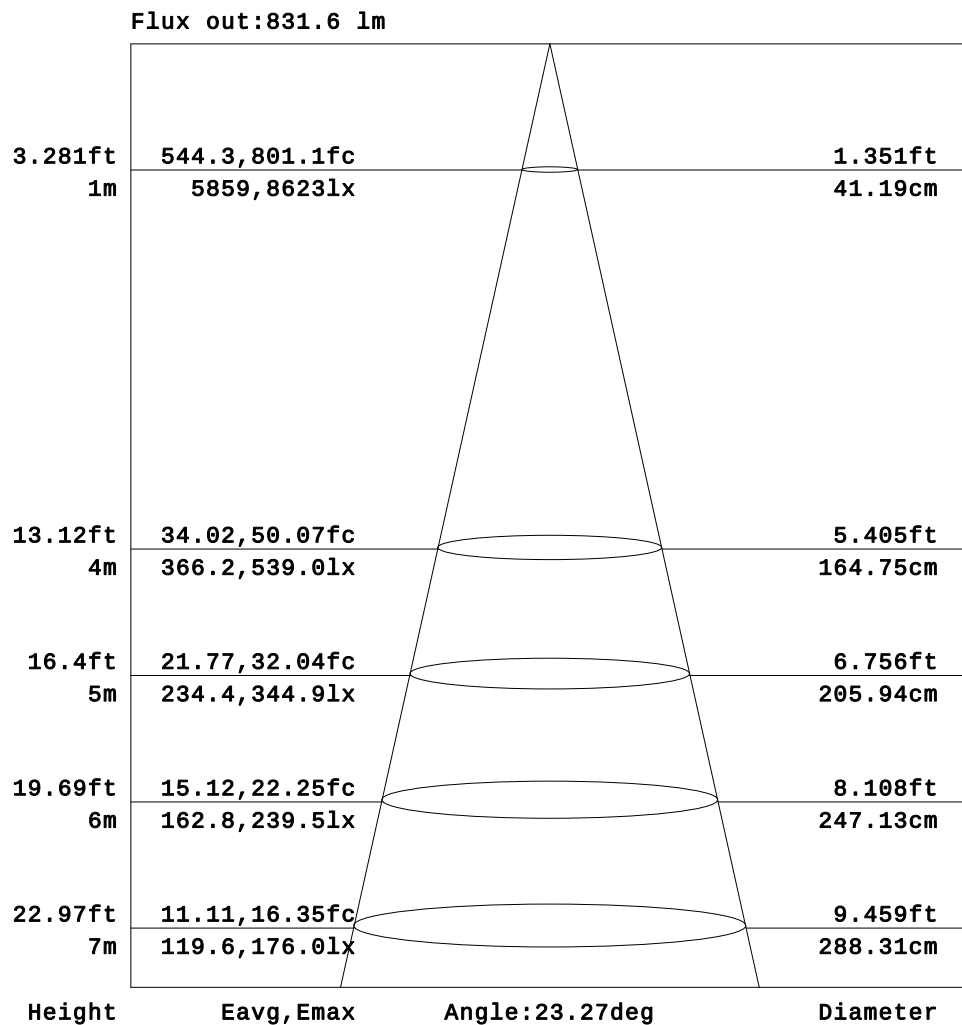


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-29

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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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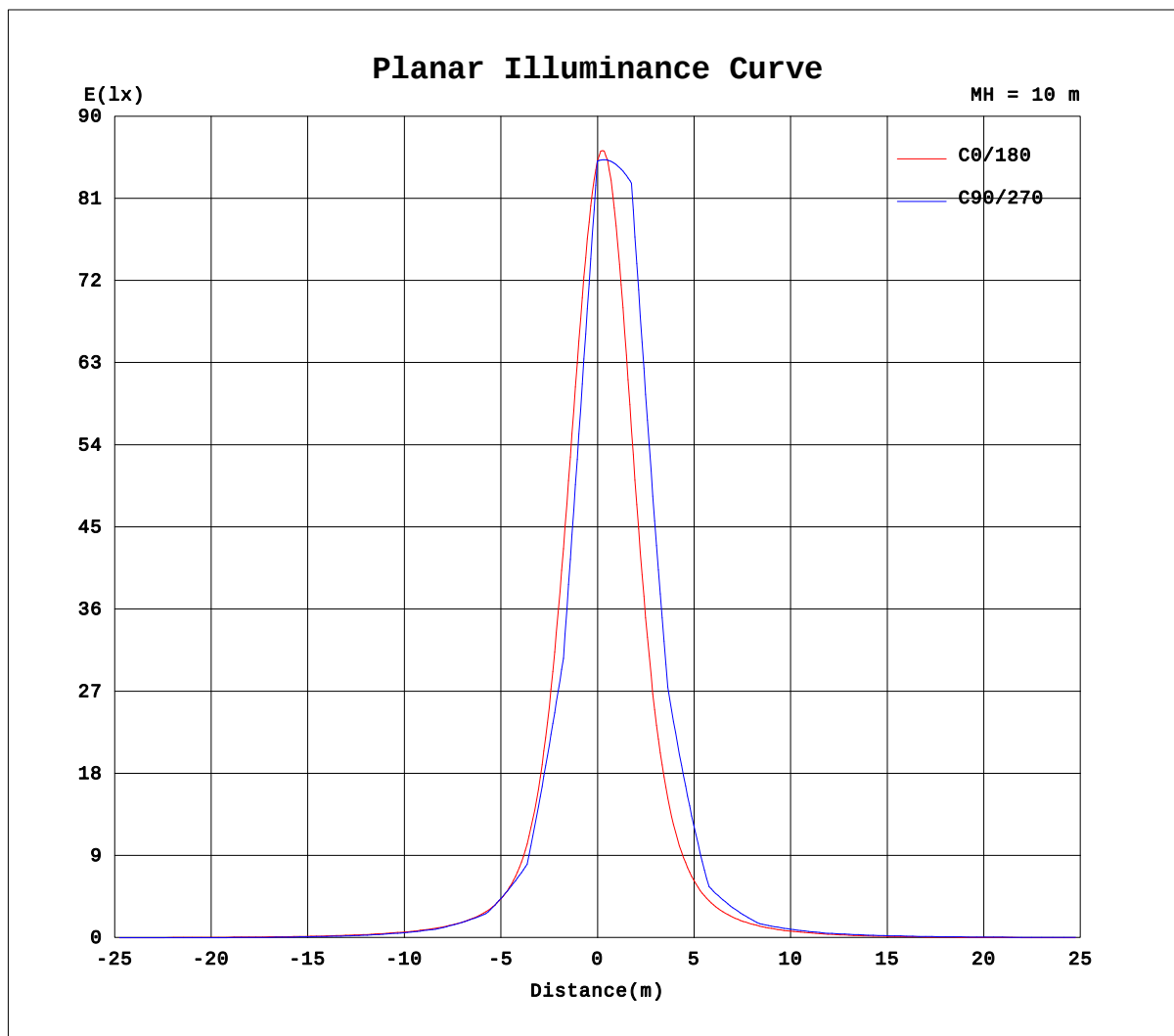


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
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Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-29

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
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Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2023120061
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-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	0.00	0.00	0.00
-65	0.00	0.00	0.00	0.00	0.00	0.00	1.18	4.68	8.76	12.5	15.8	18.4	20.6	21.5	21.6	21.4	21.9	22.5	22.6
-60	0.00	0.00	0.00	0.00	0.00	0.00	2.36	9.36	17.5	25.1	31.6	36.9	41.2	43.0	43.2	42.8	43.8	44.9	45.2
-55	0.00	0.00	0.00	0.00	0.00	3.68	10.3	19.6	30.3	40.4	49.4	57.0	63.2	67.5	71.4	74.2	77.2	79.1	79.4
-50	0.00	0.00	0.00	0.00	0.00	7.35	18.2	29.8	43.0	55.7	67.2	77.1	85.2	92.1	99.6	106	111	113	114
-45	0.00	0.00	0.00	0.00	2.32	12.3	24.9	39.8	55.1	70.6	85.8	101	115	128	140	150	158	163	163
-40	0.00	0.00	0.00	0.00	4.65	17.2	31.6	49.8	67.2	85.5	104	125	145	164	180	195	206	212	212
-35	0.00	0.00	0.00	0.12	7.54	21.0	38.2	58.1	79.0	102	128	155	184	214	245	274	298	311	310
-30	0.00	0.00	0.00	0.24	10.4	24.8	44.8	66.4	90.8	119	152	186	223	265	309	354	391	411	409
-25	0.00	0.00	0.00	1.58	13.2	29.3	51.2	75.4	104	138	177	223	282	354	443	543	636	694	691
-20	0.00	0.00	0.00	2.91	16.0	33.8	57.6	84.5	117	157	202	260	341	443	576	732	882	976	974
-15	0.00	0.00	0.00	3.82	17.9	37.3	62.3	91.6	128	173	228	304	417	586	849	1228	1684	2040	2091
-10	0.00	0.00	0.00	4.73	19.7	40.8	67.1	98.7	139	189	253	347	493	730	1121	1724	2487	3103	3208
-5	0.00	0.00	0.00	5.56	21.2	43.3	70.6	104	146	199	271	380	560	881	1484	2574	4158	5595	5860
0	0.00	0.00	0.00	6.38	22.7	45.8	74.1	108	153	208	289	413	628	1033	1846	3424	5830	8088	8512
5	0.00	0.00	0.00	6.18	22.5	45.6	73.6	108	152	206	284	404	611	1004	1804	3351	5709	7969	8584
10	0.00	0.00	0.00	5.97	22.3	45.4	73.1	107	151	204	279	395	595	976	1762	3278	5587	7850	8656
15	0.00	0.00	0.00	5.24	21.3	43.7	70.7	103	144	193	259	360	522	815	1386	2433	3985	5476	5983
20	0.00	0.00	0.00	4.50	20.3	41.9	68.2	98.5	136	181	239	324	450	655	1009	1588	2383	3103	3311
25	0.00	0.00	0.00	3.35	18.1	37.9	62.9	90.9	124	165	214	281	374	516	744	1098	1562	1972	2087
30	0.00	0.00	0.00	2.20	15.9	33.9	57.6	83.3	113	148	188	237	299	377	480	608	742	841	863
35	0.00	0.00	0.00	1.10	13.2	29.6	51.8	75.4	101	131	164	203	248	304	372	453	534	592	605
40	0.00	0.00	0.00	0.00	10.5	25.3	46.0	67.5	89.6	113	140	168	198	231	264	297	325	343	346
45	0.00	0.00	0.00	0.00	7.03	20.7	38.3	58.4	78.3	98.2	119	142	165	189	213	236	255	267	269
50	0.00	0.00	0.00	0.00	3.58	16.2	30.6	49.3	67.1	83.2	99.1	116	132	148	162	175	185	191	192
55	0.00	0.00	0.00	0.00	1.79	11.7	24.2	39.4	55.0	70.0	83.7	96.6	109	120	131	140	147	152	153
60	0.00	0.00	0.00	0.00	0.00	7.22	17.7	29.5	42.8	56.7	68.4	77.6	85.5	92.7	98.8	105	109	113	114
65	0.00	0.00	0.00	0.00	0.00	3.61	10.0	19.7	30.8	41.8	51.1	58.7	65.4	71.1	75.3	78.9	81.9	84.3	85.2
70	0.00	0.00	0.00	0.00	0.00	0.00	2.32	9.96	18.8	26.8	33.8	39.7	45.3	49.5	51.9	53.2	54.5	56.0	56.8
75	0.00	0.00	0.00	0.00	0.00	0.00	1.16	4.98	9.41	13.4	16.9	20.2	23.9	26.8	28.4	28.6	29.1	30.1	30.6
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	2.45	4.15	4.93	3.96	3.73	4.13	4.50
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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Humidity:61%
Test Distance:8.300m [K=1.0000]
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DIM.:	SPEC.:	SERIAL No.:2023120061
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	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	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	22.2	21.5	20.5	19.5	18.4	16.9	14.8	12.5	9.71	6.31	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	44.4	43.0	41.1	39.1	36.9	33.8	29.6	25.0	19.4	12.6	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	77.8	74.9	70.9	66.4	61.7	56.4	50.3	43.7	35.6	26.0	16.1	8.03	3.03	0.00	0.00	0.00	0.00	0.00
-50	111	107	101	93.7	86.6	79.0	71.0	62.4	51.7	39.3	26.9	16.1	6.06	0.00	0.00	0.00	0.00	0.00
-45	158	150	139	128	116	104	91.7	79.5	66.4	52.5	38.1	23.6	11.3	2.21	0.00	0.00	0.00	0.00
-40	205	193	178	162	145	129	112	96.7	81.1	65.8	49.4	31.2	16.5	4.41	0.00	0.00	0.00	0.00
-35	296	272	243	212	184	159	137	116	96.3	77.8	59.4	40.2	22.4	8.43	0.74	0.00	0.00	0.00
-30	386	350	308	262	223	190	161	135	111	89.8	69.5	49.3	28.2	12.4	1.47	0.00	0.00	0.00
-25	630	537	439	351	282	230	188	155	126	101	77.9	55.9	33.8	15.7	3.33	0.00	0.00	0.00
-20	874	725	571	440	341	270	216	175	141	112	86.3	62.5	39.4	19.0	5.19	0.00	0.00	0.00
-15	1803	1341	916	616	432	319	244	193	154	122	93.6	68.1	44.0	21.9	6.97	0.00	0.00	0.00
-10	2731	1957	1260	793	522	368	272	211	167	131	101	73.7	48.7	24.8	8.75	0.00	0.00	0.00
-5	4797	3210	1848	1015	609	406	292	223	175	136	104	76.1	50.6	26.1	9.24	0.00	0.00	0.00
0	6864	4463	2435	1238	695	443	313	235	183	141	108	78.4	52.6	27.4	9.74	0.01	0.00	0.00
5	7070	4586	2454	1243	697	444	313	234	182	142	108	79.1	53.1	27.8	10.00	0.00	0.00	0.00
10	7277	4708	2472	1249	698	444	313	233	181	142	109	79.8	53.6	28.2	10.3	0.00	0.00	0.00
15	5048	3336	1851	1009	600	400	290	221	174	137	105	76.9	51.5	26.8	9.54	0.00	0.00	0.00
20	2819	1964	1230	768	503	355	267	209	167	131	101	73.9	49.3	25.3	8.81	0.01	0.00	0.00
25	1807	1317	881	591	414	306	238	190	154	122	94.8	69.5	45.7	23.1	7.54	0.00	0.00	0.00
30	795	669	533	414	325	256	209	172	141	114	88.6	65.2	42.1	20.9	6.26	0.00	0.00	0.00
35	564	488	404	328	268	220	184	153	127	103	80.5	58.8	36.4	17.5	4.43	0.00	0.00	0.00
40	333	308	276	243	212	184	159	134	113	92.1	72.3	52.3	30.7	14.0	2.59	0.00	0.00	0.00
45	261	244	223	200	177	157	137	117	99.4	82.0	64.2	44.7	25.6	10.7	1.30	0.00	0.00	0.00
50	189	181	169	157	143	129	115	101	86.3	71.9	56.1	37.1	20.6	7.28	0.00	0.00	0.00	0.00
55	151	145	137	128	118	108	97.0	85.7	73.3	59.7	44.7	29.2	15.4	3.74	0.00	0.00	0.00	0.00
60	112	109	104	98.5	92.8	86.4	79.1	70.8	60.4	47.4	33.3	21.2	10.2	0.20	0.00	0.00	0.00	0.00
65	84.4	82.1	79.0	75.5	71.7	66.7	60.4	53.3	45.1	34.8	23.4	13.3	5.12	0.10	0.00	0.00	0.00	0.00
70	56.5	55.4	53.8	52.5	50.5	47.0	41.6	35.9	29.8	22.1	13.6	5.54	0.00	0.00	0.00	0.00	0.00	0.00
75	30.5	29.7	28.8	28.3	27.5	25.1	21.7	18.0	14.9	11.1	6.80	2.77	0.00	0.00	0.00	0.00	0.00	0.00
80	4.51	4.05	3.75	4.18	4.44	3.22	1.78	0.07	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

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:27.1DEG
 Operators:QC1
 Test Date:2023-12-29

$V(\beta)$ Range:-80 - 80DEG
 $V(\beta)$ Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:61%
 Test Distance:8.300m [K=1.0000]
 Remarks: