

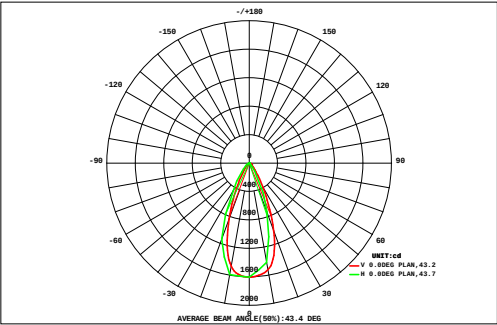
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		1637.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	72.9V x 72.4H
	At 50% of Imax	43.7V x 43.2H
	At 90% of Imax	22.8V x 23.6H
Beam Flux	Total	999.5 lumens per klm.
	To 10% of Imax	872.7 lumens per klm.
	To 50% of Imax	559.5 lumens per klm.
	To 90% of Imax	185.7 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.9V I:0.1022A P:13.94W PF:0.4907 Freq:50.01Hz Lamp Flux:978.362x1 lm		
NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-G	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:70.18lm/W	
MODEL: PZT-R170-12P-RDM-G		Imax(cd)	1602
NOMINAL POWER(W)	14	AVAILABILITY(%)	87.6
RATED VOLTAGE(V)	277	Avai. FLUX(lm)	857.0
NOMINAL FLUX(lm)	978.362	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	978.4
TEST VOLTAGE(V)	277	θ @50%(H,V)	43,44DEG

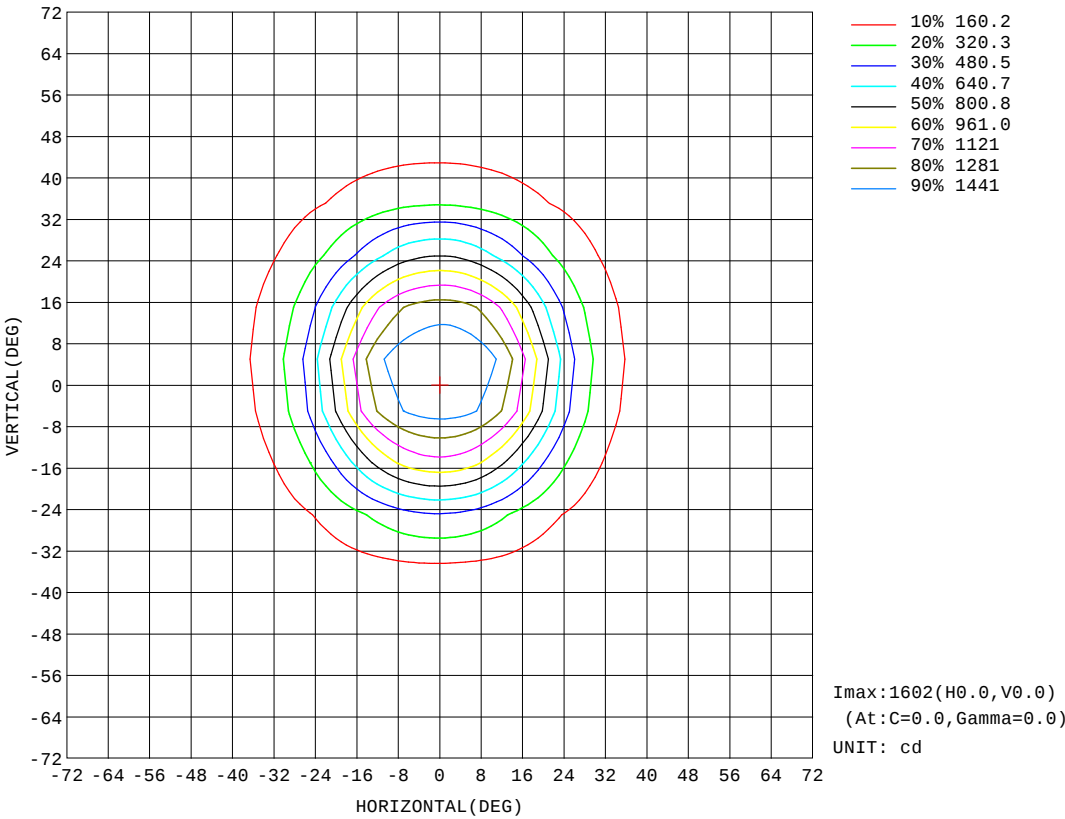
AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a
VERTICAL (DEG)	72	0.00	0.00	0.00	0.01	0.05	0.15	0.25	0.31	0.34	0.32	0.26	0.17	0.07	0.02	0.01	0.00	0.00	0.00	1.96	0.00
	64	0.00	0.00	0.03	0.15	0.30	0.47	0.62	0.72	0.77	0.76	0.68	0.55	0.38	0.21	0.07	0.00	0.00	0.00	5.72	0.00
	56	0.00	0.01	0.12	0.31	0.55	0.80	1.03	1.22	1.32	1.31	1.18	0.97	0.72	0.46	0.23	0.06	0.00	0.00	10.3	0.00
	48	0.00	0.05	0.23	0.49	0.83	1.23	1.67	2.09	2.34	2.32	2.01	1.59	1.13	0.72	0.40	0.16	0.02	0.00	17.3	0.00
	40	0.00	0.11	0.34	0.69	1.19	1.91	2.88	3.97	4.72	4.62	3.73	2.64	1.71	1.01	0.55	0.24	0.05	0.00	30.4	17.5
	32	0.01	0.16	0.43	0.88	1.67	3.04	5.28	8.15	10.2	9.87	7.43	4.68	2.63	1.40	0.72	0.32	0.08	0.00	56.9	48.9
	24	0.02	0.18	0.49	1.06	2.27	4.91	10.1	16.9	21.5	21.1	15.7	8.87	4.18	1.88	0.88	0.39	0.12	0.00	110	104
		0.02	0.19	0.51	1.16	2.72	6.61	14.6	23.9	28.7	28.8	23.5	13.8	5.98	2.35	1.01	0.43	0.14	0.00	154	149
		0.02	0.19	0.52	1.20	2.95	7.69	17.4	27.7	31.7	31.8	27.2	16.4	6.91	2.53	1.03	0.43	0.14	0.00	176	170
		0.02	0.19	0.51	1.18	2.92	7.80	17.3	26.5	29.9	29.8	25.1	14.8	6.06	2.21	0.91	0.39	0.11	0.00	166	160
		0.01	0.15	0.43	0.97	2.21	5.43	12.3	20.7	25.6	25.1	19.0	10.6	4.45	1.78	0.79	0.34	0.08	0.00	130	124
	-24	0.00	0.10	0.32	0.70	1.45	2.95	6.00	10.4	13.6	13.4	9.72	5.51	2.76	1.30	0.61	0.25	0.05	0.00	69.1	61.7
-32	0.00	0.05	0.22	0.49	0.93	1.67	2.83	4.43	5.74	5.65	4.24	2.62	1.52	0.83	0.42	0.16	0.02	0.00	31.8	21.0	
-40	0.00	0.02	0.12	0.31	0.56	0.88	1.16	1.37	1.54	1.50	1.33	1.07	0.74	0.45	0.23	0.06	0.00	0.00	11.3	0.00	
-48	0.00	0.00	0.03	0.15	0.28	0.44	0.57	0.63	0.64	0.65	0.61	0.48	0.33	0.19	0.07	0.01	0.00	0.00	5.07	0.00	
-56	0.00	0.00	0.00	0.00	0.03	0.10	0.19	0.26	0.27	0.24	0.19	0.14	0.08	0.03	0.01	0.00	0.00	0.00	1.56	0.00	
-64	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.25	0.00	
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)					16	24	32	40	48	56	64	72
Φ t	0.11	1.40	4.29	9.74	20.9	46.1	94.3	149	179	177	142	84.8	39.7	17.4	7.93	3.24	0.80	0.01	978	---	
Φ a	0.00	0.00	0.00	0.00	7.78	36.6	86.0	141	171	170	134	76.7	30.1	3.95	0.00	0.00	0.00	0.00	---	857	

one-half-peak spread: U:18.9,D:25.0 , L:22.9,R:20.6 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:2025-08-05
 V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:277.9V I:0.1022A P:13.94W PF:0.4907 Freq:50.01Hz Lamp Flux:978.362x1 lm		
NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-G	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

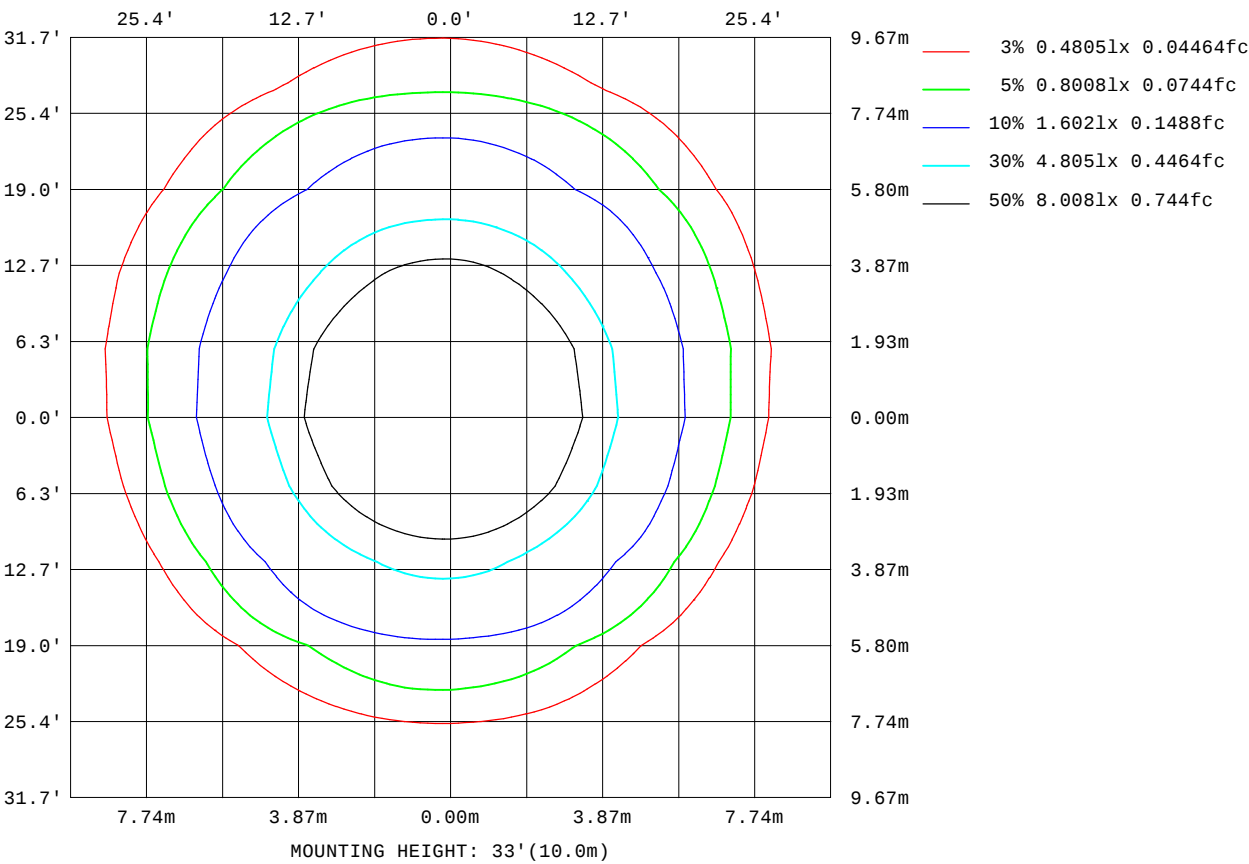


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

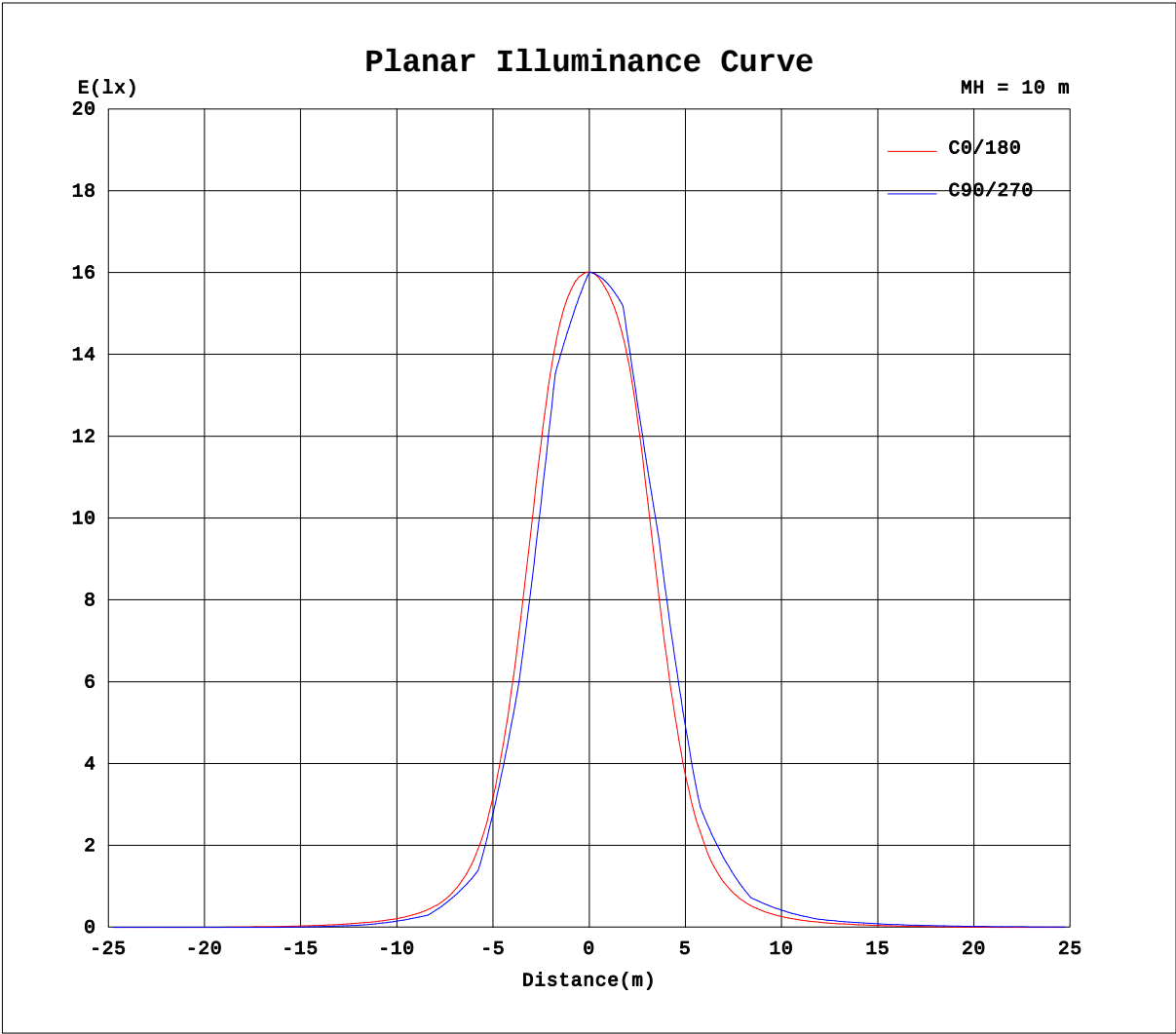
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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

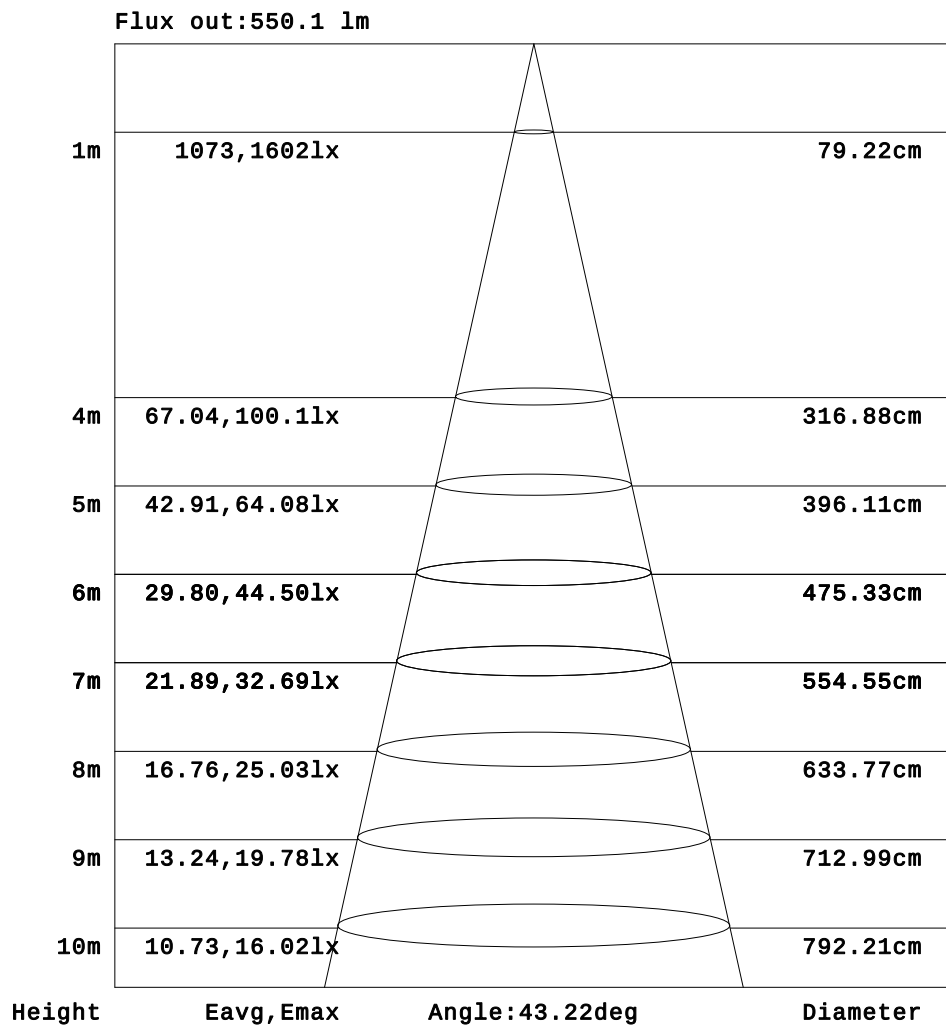


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:277.9V I:0.1022A P:13.94W PF:0.4907 Freq:50.01Hz Lamp Flux:978.362x1 lm		
NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-G	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-08-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.9V I:0.1022A P:13.94W PF:0.4907 Freq:50.01Hz Lamp Flux:978.362x1 lm		
NAME: 8.03.034.0002 45° SP-PZT-R170-12P-RDM-G	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	2.30	4.15	6.02	7.82	9.35	10.4	10.8	10.6	
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	5.37	9.05	12.8	16.3	19.2	21.1	21.6	21.0	
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.37	7.00	10.8	16.0	21.5	27.4	32.8	37.4	41.1	43.4	44.1	
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	8.15	15.4	22.2	28.7	36.3	44.2	51.1	57.3	62.4	65.9	67.2	
-35	0.00	0.00	0.00	0.00	0.00	0.00	1.21	5.41	13.1	21.2	30.0	40.7	53.7	69.1	86.1	104	122	137	141	
-30	0.00	0.00	0.00	0.00	0.00	0.00	3.98	12.3	21.2	30.4	41.8	57.5	77.0	100	128	158	189	211	213	
-25	0.00	0.00	0.00	0.00	0.00	0.23	5.83	14.8	24.8	36.4	52.5	75.4	108	155	223	306	388	449	470	
-20	0.00	0.00	0.00	0.00	0.00	1.76	11.2	21.2	32.6	47.9	71.1	105	155	233	350	489	616	702	724	
-15	0.00	0.00	0.00	0.00	0.00	1.93	11.7	22.5	35.2	52.6	79.7	123	196	321	504	720	911	1032	1072	
-10	0.00	0.00	0.00	0.00	0.00	5.49	16.3	28.4	43.8	66.4	102	165	277	472	743	1035	1267	1391	1416	
-5	0.00	0.00	0.00	0.00	0.00	4.83	16.0	28.5	43.8	66.8	104	170	294	505	808	1131	1363	1475	1510	
0	0.00	0.00	0.00	0.00	0.00	8.53	20.4	34.1	51.4	79.2	126	213	379	648	1005	1341	1521	1582	1602	
5	0.00	0.00	0.00	0.00	0.00	6.48	18.3	31.6	47.6	73.0	115	189	327	557	888	1232	1465	1561	1595	
10	0.00	0.00	0.00	0.00	0.01	9.05	21.2	34.8	52.2	80.2	126	207	349	586	914	1241	1465	1560	1590	
15	0.00	0.00	0.00	0.00	0.00	6.36	18.0	30.9	46.3	69.7	106	167	268	438	682	957	1188	1319	1364	
20	0.00	0.00	0.00	0.00	0.00	8.21	19.7	32.6	48.3	71.3	106	159	243	377	561	777	979	1106	1138	
25	0.00	0.00	0.00	0.00	0.00	4.46	15.1	26.9	40.9	59.0	84.7	122	178	263	380	522	662	762	796	
30	0.00	0.00	0.00	0.00	0.00	4.90	15.0	26.4	39.9	55.4	76.8	105	141	192	253	324	395	442	452	
35	0.00	0.00	0.00	0.00	0.00	1.45	10.2	20.2	32.1	45.1	61.2	81.5	107	139	177	221	266	298	309	
40	0.00	0.00	0.00	0.00	0.00	0.76	9.17	18.5	29.3	40.4	53.0	67.5	83.3	100	119	137	152	162	164	
45	0.00	0.00	0.00	0.00	0.00	0.00	4.03	11.9	21.2	30.7	40.8	52.2	64.1	76.3	88.7	101	111	118	120	
50	0.00	0.00	0.00	0.00	0.00	0.00	1.85	8.84	16.8	24.8	33.0	41.7	49.7	57.0	63.5	69.1	73.4	75.9	76.2	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.29	3.68	9.29	16.2	22.9	29.8	36.6	42.6	47.9	52.2	55.5	57.6	58.1	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.51	10.2	15.5	20.8	26.0	30.4	34.1	36.8	38.7	39.8	39.8	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	4.55	7.24	10.8	15.0	18.7	21.8	24.2	25.8	26.7	26.8	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53	5.51	8.30	10.7	12.4	13.4	13.8	13.5	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	2.46	3.88	5.12	6.04	6.63	6.90	6.82	
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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Humidity:83%
Test Distance:8.300m [K=1.0000]
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SPEC.:	DIM.:	SERIAL No.:2025080031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	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	9.90	8.86	7.69	6.35	4.87	3.38	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	19.4	17.3	14.9	12.1	9.13	6.17	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	43.0	40.2	35.8	29.8	24.0	18.4	13.0	8.08	4.87	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	65.8	61.7	54.4	45.1	36.6	28.4	21.1	14.9	8.51	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-35	134	121	102	82.0	63.5	47.7	35.5	25.8	17.3	9.23	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-30	198	173	142	111	83.7	61.5	45.6	33.2	22.7	13.1	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-25	443	376	287	206	145	98.9	68.2	47.6	32.6	20.7	10.4	2.30	0.00	0.00	0.00	0.00	0.00	0.00
-20	667	545	398	273	186	122	81.2	55.3	37.4	24.0	12.3	2.85	0.00	0.00	0.00	0.00	0.00	0.00
-15	1028	894	694	483	305	184	112	72.4	48.3	31.7	18.5	7.29	0.23	0.00	0.00	0.00	0.00	0.00
-10	1350	1170	904	613	368	210	124	78.1	51.7	33.8	19.9	7.80	0.00	0.00	0.00	0.00	0.00	0.00
-5	1480	1359	1115	789	485	274	156	93.6	60.4	39.5	24.5	11.7	1.24	0.00	0.00	0.00	0.00	0.00
0	1579	1472	1202	834	502	279	156	92.7	59.4	38.6	23.8	11.1	0.51	0.00	0.00	0.00	0.00	0.00
5	1577	1476	1224	871	540	306	173	103	66.0	42.8	26.9	14.1	2.58	0.00	0.00	0.00	0.00	0.00
10	1553	1406	1112	764	466	266	154	95.2	61.8	39.7	24.7	12.3	0.99	0.00	0.00	0.00	0.00	0.00
15	1326	1188	951	668	422	253	152	95.5	63.3	41.3	25.8	13.6	2.49	0.00	0.00	0.00	0.00	0.00
20	1059	889	677	463	299	191	122	80.3	54.8	36.0	21.7	10.4	0.39	0.00	0.00	0.00	0.00	0.00
25	757	649	509	367	250	168	112	76.0	52.9	35.7	21.6	10.7	1.01	0.00	0.00	0.00	0.00	0.00
30	419	357	282	218	162	118	85.4	60.9	43.5	29.3	16.7	6.91	0.00	0.00	0.00	0.00	0.00	0.00
35	294	257	212	170	132	100	74.7	54.6	39.6	26.8	15.1	5.97	0.08	0.00	0.00	0.00	0.00	0.00
40	156	142	124	106	88.4	71.0	55.1	41.6	30.3	19.4	9.61	1.51	0.00	0.00	0.00	0.00	0.00	0.00
45	117	108	97.1	84.9	72.1	59.1	46.6	35.2	25.5	16.1	7.32	1.57	0.00	0.00	0.00	0.00	0.00	0.00
50	74.4	70.5	65.0	58.5	50.5	42.1	33.3	24.8	17.0	8.98	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	56.9	54.2	50.2	45.2	39.0	32.3	25.2	18.2	11.6	5.29	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	38.6	36.5	33.5	29.6	24.9	19.7	14.1	8.93	3.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	25.9	24.3	22.0	18.9	15.3	11.2	7.62	4.98	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	12.7	11.3	9.38	6.92	4.06	0.92	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	6.48	5.82	4.91	3.72	2.33	0.76	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:2025-08-05

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: