

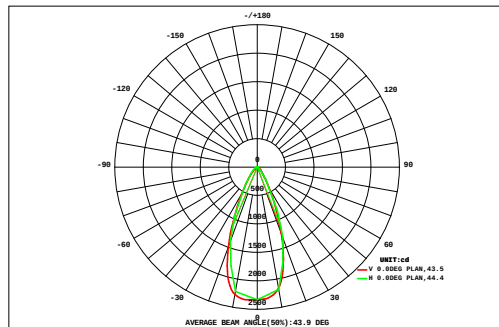
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		1621.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	74.8V x 73.4H
	At 50% of Imax	44.4V x 43.5H
	At 90% of Imax	23.1V x 24.7H
Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	868.5 lumens per klm.
	To 50% of Imax	550.5 lumens per klm.
	To 90% of Imax	193.4 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.6V I:0.3848A P:28.91W PF:0.6228 Freq:50.00Hz Lamp Flux:1440.32x1 lm		
NAME: 8.03.035.0003 45° SP-PZT-R135-6P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025070091
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:49.82lm/W	
MODEL SP-PZT-R135-6P-RDM	Imax(cd)	2335	
NOMINAL POWER(W)	29	AVAILABILITY(%)	86.9
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1251
NOMINAL FLUX(lm)	1440.32	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1440
TEST VOLTAGE(V)	120	θ @50%(H,V)	44,44DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm				Φ t	Φ a
	72	0.00	0.00	0.00	0.01	0.02	0.10	0.24	0.36	0.45	0.49	0.47	0.40	0.29	0.17	0.04	0.01	0.00	0.00	3.05	0.00	
	64	0.00	0.00	0.00	0.09	0.30	0.53	0.75	0.94	1.05	1.09	1.03	0.91	0.74	0.53	0.31	0.11	0.00	0.00	8.35	0.00	
	56	0.00	0.00	0.07	0.28	0.61	0.95	1.30	1.59	1.77	1.80	1.70	1.49	1.21	0.89	0.57	0.28	0.07	0.00	14.6	0.00	
	48	0.00	0.02	0.18	0.51	0.96	1.47	2.05	2.59	2.95	3.00	2.77	2.33	1.82	1.30	0.83	0.44	0.16	0.01	23.4	0.00	
	40	0.00	0.07	0.32	0.77	1.39	2.22	3.32	4.54	5.52	5.63	4.92	3.80	2.69	1.78	1.09	0.58	0.23	0.03	38.9	14.4	
	32	0.00	0.12	0.44	0.99	1.87	3.35	5.66	8.78	11.5	11.7	9.68	6.69	4.14	2.44	1.39	0.72	0.29	0.06	69.9	56.7	
	24	0.00	0.16	0.53	1.20	2.50	5.19	10.5	18.4	25.4	26.4	21.1	13.2	6.79	3.37	1.71	0.83	0.35	0.08	138	128	
		0.01	0.18	0.57	1.31	3.00	7.23	16.4	29.1	38.1	39.5	34.1	21.8	10.3	4.44	2.02	0.93	0.39	0.10	210	201	
		0.01	0.18	0.60	1.37	3.26	8.62	20.7	36.5	45.1	46.1	41.6	27.6	12.8	5.09	2.15	0.94	0.40	0.09	253	245	
		0.01	0.19	0.61	1.39	3.27	9.03	22.0	37.5	44.2	45.0	41.0	27.1	12.3	4.79	1.96	0.86	0.36	0.07	252	244	
		0.00	0.13	0.51	1.19	2.60	6.62	16.5	30.2	39.2	40.6	34.6	21.7	10.1	4.02	1.71	0.79	0.32	0.06	211	202	
	-24	0.00	0.07	0.37	0.90	1.85	3.91	8.67	16.2	23.4	25.3	20.3	12.4	6.18	2.91	1.38	0.64	0.24	0.04	125	115	
	-32	0.00	0.03	0.24	0.61	1.20	2.27	4.26	7.22	10.2	11.2	9.15	5.94	3.43	1.86	0.97	0.46	0.16	0.02	59.1	45.5	
	-40	0.00	0.01	0.12	0.37	0.71	1.19	1.76	2.36	2.76	2.86	2.61	2.16	1.62	1.03	0.58	0.27	0.08	0.00	20.5	0.88	
	-48	0.00	0.00	0.04	0.19	0.40	0.62	0.83	1.02	1.22	1.26	1.19	1.02	0.76	0.51	0.30	0.12	0.02	0.00	9.48	0.00	
-56	0.00	0.00	0.00	0.02	0.16	0.30	0.40	0.49	0.55	0.57	0.55	0.50	0.39	0.25	0.13	0.04	0.00	0.00	4.35	0.00		
-64	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.10	0.12	0.13	0.12	0.10	0.07	0.04	0.02	0.01	0.00	0.00	0.82	0.00		
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00		
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72		
Φ t	0.03	1.16	4.60	11.2	24.1	53.6	115	198	254	263	227	149	75.6	35.4	17.2	8.03	3.06	0.55	1440	---		
Φ a	0.00	0.00	0.00	0.00	3.88	38.7	103	185	241	250	214	137	61.4	17.2	0.00	0.00	0.00	0.00	---	1251		

one-half-peak spread: U:21.8,D:22.8 , L:25.8,R:18.0

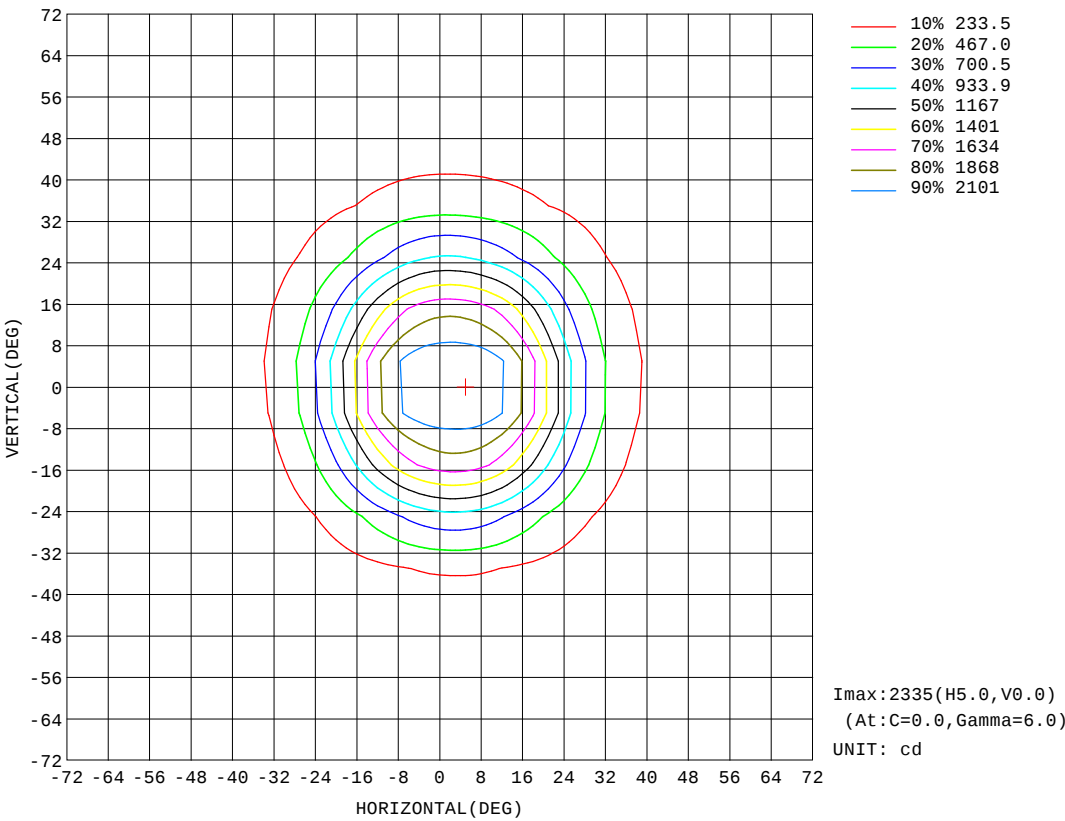
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-07-31

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:120.6V I:0.3848A P:28.91W PF:0.6228 Freq:50.00Hz Lamp Flux:1440.32x1 lm		
NAME: 8.03.035.0003 45° SP-PZT-R135-6P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025070091
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

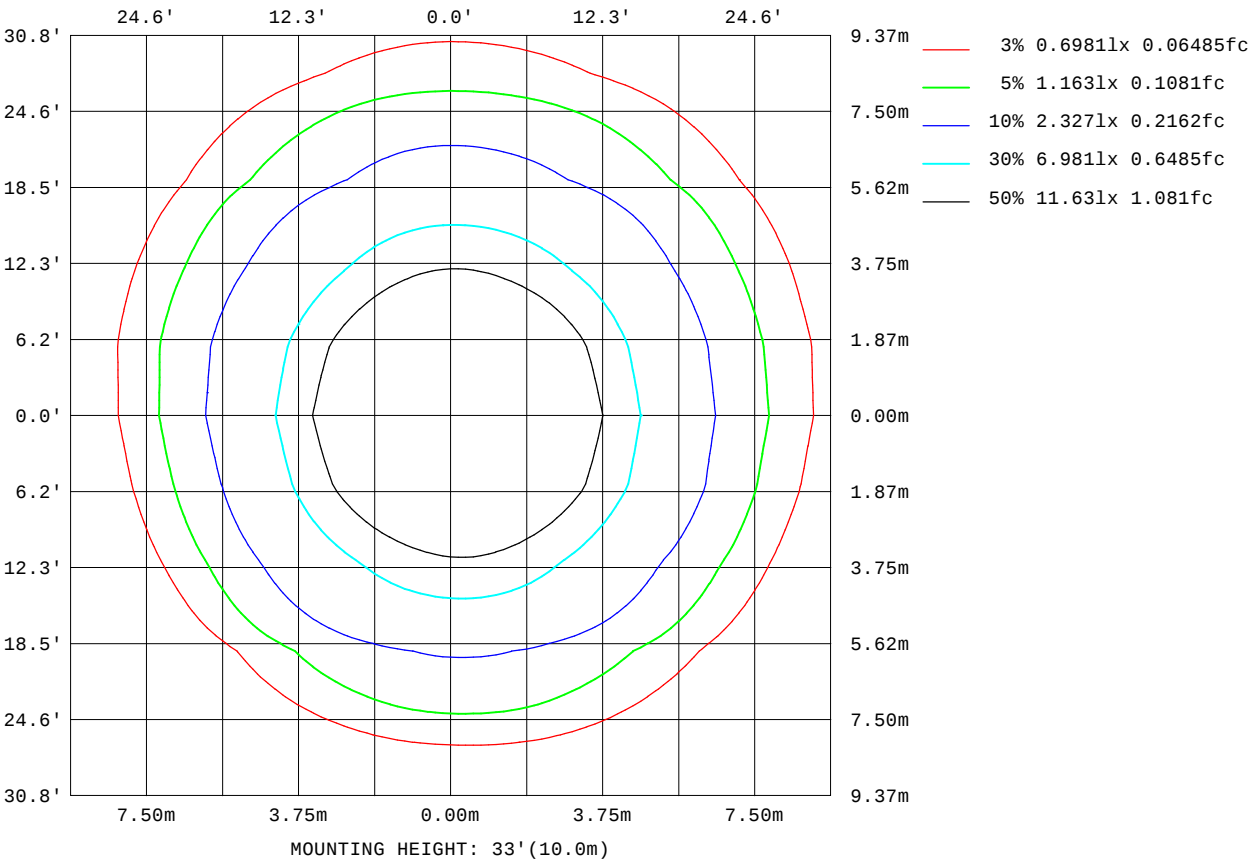


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-07-31

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

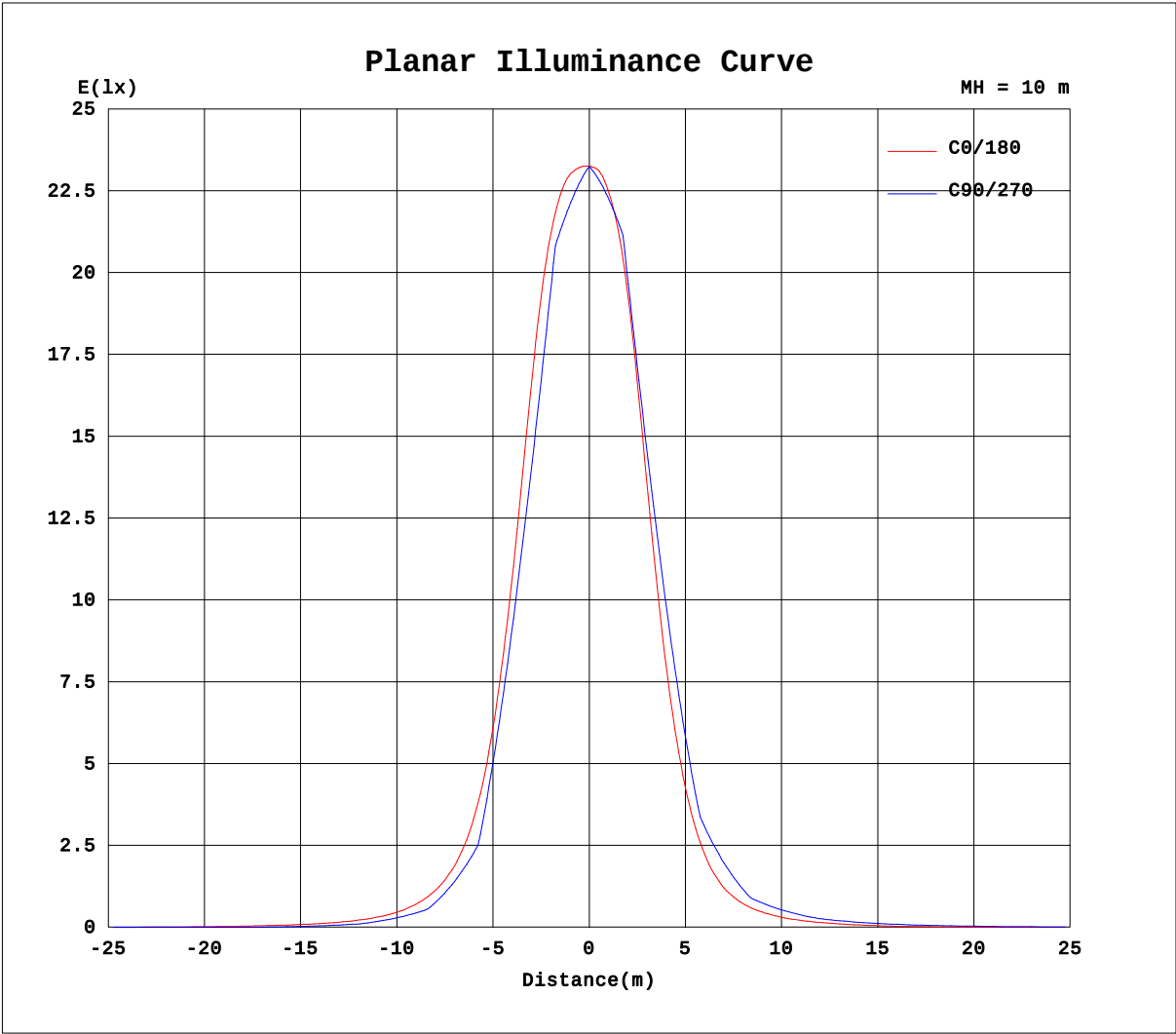
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SPEC.:	DIM.:	SERIAL No.:2025070091
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-07-31

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

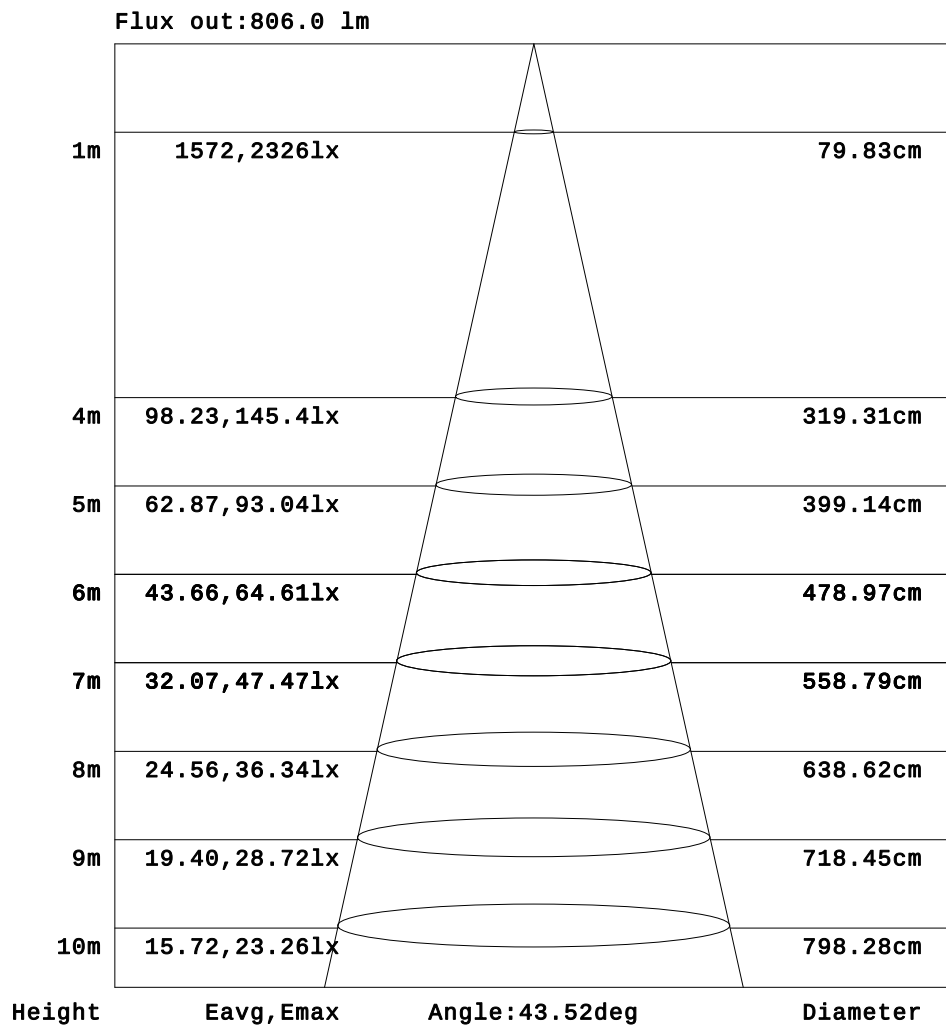


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-07-31

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:120.6V I:0.3848A P:28.91W PF:0.6228 Freq:50.00Hz Lamp Flux:1440.32x1 lm		
NAME: 8.03.035.0003 45° SP-PZT-R135-6P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025070091
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:2025-07-31

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:120.6V I:0.3848A P:28.91W PF:0.6228 Freq:50.00Hz Lamp Flux:1440.32x1 lm		
NAME: 8.03.035.0003 45° SP-PZT-R135-6P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025070091
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	1.17	2.19	2.54	2.59	
-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	0.19	2.82	4.63	5.14	5.17	
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	3.44	7.08	10.2	12.3	14.5	17.8	20.8	22.8	23.7	
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	8.38	15.5	21.3	25.5	29.8	34.2	38.0	40.9	42.3	
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	3.79	8.48	16.6	24.7	33.0	41.0	49.6	58.9	69.1	78.4	83.4	
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	9.28	18.7	28.1	37.2	47.9	59.8	73.0	87.5	104	119	125	
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.46	14.4	25.7	37.6	52.0	70.8	94.5	126	164	203	237	255	
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.77	11.0	23.8	37.5	52.2	73.6	102	140	193	255	316	365	388	
-25	0.00	0.00	0.00	0.00	0.00	0.00	2.93	14.0	28.6	45.8	66.5	95.6	140	211	323	465	620	760	844	
-20	0.00	0.00	0.00	0.00	0.00	0.00	8.29	22.5	39.8	61.8	90.6	132	201	322	506	736	987	1200	1315	
-15	0.00	0.00	0.00	0.00	0.00	0.01	8.74	24.0	42.7	66.1	97.8	148	237	405	678	1021	1363	1612	1738	
-10	0.00	0.00	0.00	0.00	0.00	1.18	14.6	32.5	54.1	81.5	121	190	325	582	979	1449	1860	2093	2183	
-5	0.00	0.00	0.00	0.00	0.00	0.91	14.1	31.9	53.1	80.3	121	191	333	598	1011	1515	1949	2174	2249	
0	0.00	0.00	0.00	0.00	0.00	4.42	20.1	39.2	61.7	92.7	142	235	425	755	1238	1780	2162	2304	2326	
5	0.00	0.00	0.00	0.00	0.00	1.84	16.9	34.8	56.2	84.5	129	208	361	631	1042	1540	1971	2198	2267	
10	0.00	0.00	0.00	0.00	0.00	4.57	20.4	38.4	60.3	90.8	140	228	385	648	1037	1496	1904	2140	2215	
15	0.00	0.00	0.00	0.00	0.00	1.39	16.0	32.2	52.6	78.8	119	184	292	473	745	1089	1436	1687	1796	
20	0.00	0.00	0.00	0.00	0.00	3.23	17.6	33.6	53.8	80.2	119	174	260	392	581	826	1089	1300	1389	
25	0.00	0.00	0.00	0.00	0.00	0.45	12.2	25.8	43.7	65.9	96.4	136	194	281	399	553	726	875	950	
30	0.00	0.00	0.00	0.00	0.00	0.20	11.8	24.5	41.5	62.4	88.0	118	158	211	274	349	429	495	519	
35	0.00	0.00	0.00	0.00	0.00	0.00	6.23	17.2	31.3	49.0	70.4	93.3	121	158	199	246	296	339	360	
40	0.00	0.00	0.00	0.00	0.00	0.00	5.03	14.9	27.6	43.8	61.8	79.0	98.1	120	142	164	183	197	202	
45	0.00	0.00	0.00	0.00	0.00	0.00	1.50	7.72	17.8	30.5	45.8	60.6	75.4	91.7	108	124	138	148	152	
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.09	12.5	23.2	35.9	48.0	59.0	70.0	80.8	89.8	96.5	101	103	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	5.37	12.3	22.1	32.5	42.0	50.8	59.4	67.1	72.9	76.9	79.1	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	12.5	21.0	28.6	35.2	41.4	46.9	51.2	54.0	55.7	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90	5.42	9.69	14.1	19.7	24.6	29.1	32.8	35.6	37.4	
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	1.90	6.20	9.73	12.8	15.6	18.1	19.7	
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	0.48	2.70	4.54	6.09	7.53	8.83	9.72	
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
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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:

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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	2.52	2.36	2.13	1.74	1.16	0.43	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	5.00	4.65	4.12	3.29	2.04	0.53	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	24.0	23.6	22.2	20.4	17.9	14.7	11.5	8.60	5.90	3.34	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-50	43.1	42.0	39.6	36.6	32.6	27.5	21.8	16.1	10.8	5.72	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-45	84.7	81.9	75.6	66.9	57.0	46.9	37.4	28.7	20.9	13.6	6.85	2.10	0.00	0.00	0.00	0.00	0.00	0.00	
-40	126	120	108	93.4	77.5	62.4	49.4	38.1	28.1	18.8	10.2	2.87	0.00	0.00	0.00	0.00	0.00	0.00	
-35	257	242	209	173	138	107	80.5	59.7	43.6	30.2	18.8	9.18	2.11	0.00	0.00	0.00	0.00	0.00	
-30	386	353	295	239	186	140	102	74.2	53.4	36.8	23.3	12.0	2.46	0.00	0.00	0.00	0.00	0.00	
-25	849	766	620	463	325	223	154	106	74.1	51.6	33.9	19.3	7.52	0.20	0.00	0.00	0.00	0.00	
-20	1292	1130	882	628	418	275	183	123	84.7	58.7	38.4	21.5	8.44	0.00	0.00	0.00	0.00	0.00	
-15	1745	1619	1353	1002	666	413	253	159	106	72.3	49.0	30.1	14.4	2.11	0.00	0.00	0.00	0.00	
-10	2169	2025	1689	1233	797	474	277	170	111	75.5	51.7	31.9	14.7	1.55	0.00	0.00	0.00	0.00	
-5	2257	2181	1924	1461	963	574	335	203	129	85.7	58.7	38.1	20.0	4.90	0.00	0.00	0.00	0.00	
0	2335	2270	1999	1483	951	557	326	200	126	83.1	56.8	36.7	18.6	3.36	0.00	0.00	0.00	0.00	
5	2268	2193	1938	1468	964	579	344	213	137	90.9	61.6	40.7	22.7	6.57	0.00	0.00	0.00	0.00	
10	2190	2049	1715	1244	800	485	295	190	127	84.5	57.3	37.2	19.8	4.22	0.00	0.00	0.00	0.00	
15	1782	1655	1399	1044	698	441	281	185	127	86.8	59.0	38.8	21.8	6.34	0.00	0.00	0.00	0.00	
20	1342	1181	949	698	477	320	218	152	109	75.9	51.9	33.2	17.2	2.79	0.00	0.00	0.00	0.00	
25	934	842	699	536	387	274	195	142	104	74.8	51.6	33.5	18.0	4.08	0.00	0.00	0.00	0.00	
30	501	452	385	310	246	191	148	114	86.4	63.4	43.5	27.1	13.0	0.68	0.00	0.00	0.00	0.00	
35	354	327	288	242	199	161	128	102	78.9	58.9	40.8	25.4	12.2	1.32	0.00	0.00	0.00	0.00	
40	198	188	173	155	136	116	97.5	79.8	63.1	46.9	31.5	18.2	6.40	0.00	0.00	0.00	0.00	0.00	
45	151	146	137	125	111	97.4	83.0	68.8	54.9	41.0	27.5	15.4	4.74	0.00	0.00	0.00	0.00	0.00	
50	103	100	95.6	89.1	81.5	72.7	62.7	52.3	41.2	29.7	18.3	8.18	0.00	0.00	0.00	0.00	0.00	0.00	
55	79.5	77.9	74.9	70.3	64.7	57.9	50.0	41.5	32.3	22.6	13.0	5.08	0.42	0.00	0.00	0.00	0.00	0.00	
60	55.9	54.7	52.5	49.4	45.3	40.1	34.0	27.1	19.7	11.6	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
65	38.2	37.7	36.2	33.9	30.9	26.9	22.2	16.8	10.9	6.63	2.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	20.5	20.2	19.1	17.4	14.9	11.8	8.34	4.30	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
75	10.2	10.2	9.71	8.89	7.74	6.24	4.54	2.58	0.30	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:2025-07-31

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: