

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

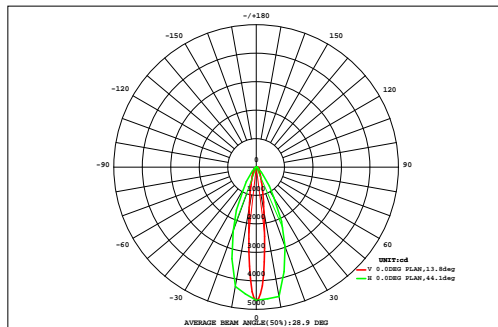
Maximum Intensity (Luminaire orientation as tested.)		3089.5 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax At 50% of Imax At 90% of Imax	76.0V x 42.3H 44.0V x 13.8H 23.2V x 5.3H
Beam Flux	Total To 10% of Imax To 50% of Imax To 90% of Imax	999.8 lumens per klm. 720.4 lumens per klm. 341.4 lumens per klm. 87.8 lumens per klm.
	Upward LOR Downward LOR	0.0 % 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:2024-08-21

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.5V I:0.1578A P:33.21W PF:0.9545 Lamp Flux:1514.01x1 lm		
NAME: 8.01.016.0087 10x45° LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080103
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:45.58lm/W	
MODEL	LWW-PZT-W38A-L12-DMX	Imax(cd)	4678
NOMINAL POWER(W)	34	AVAILABILITY(%)	72.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1092
NOMINAL FLUX(lm)	1514.01	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1514
TEST VOLTAGE(V)	220.5	θ @50%(H,V)	14,44DEG

AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
72	0.00	0.00	0.01	0.06	0.20	0.34	0.48	0.59	0.67	0.68	0.62	0.53	0.40	0.25	0.10	0.01	0.00	0.00	4.94	0.00
64	0.00	0.01	0.15	0.37	0.60	0.82	1.01	1.17	1.29	1.30	1.22	1.07	0.88	0.64	0.40	0.18	0.03	0.00	11.1	0.00
56	0.00	0.10	0.32	0.60	0.90	1.20	1.52	1.85	2.15	2.17	1.91	1.59	1.27	0.95	0.65	0.36	0.13	0.01	17.7	0.00
48	0.02	0.19	0.48	0.81	1.19	1.63	2.21	3.13	4.48	4.58	3.27	2.33	1.73	1.27	0.88	0.53	0.24	0.04	29.0	0.00
40	0.05	0.29	0.61	1.01	1.50	2.15	3.22	5.51	10.3	10.7	5.92	3.45	2.30	1.61	1.09	0.67	0.33	0.08	50.8	14.3
32	0.09	0.36	0.72	1.20	1.83	2.76	4.58	9.50	22.7	23.9	10.4	4.98	3.01	2.00	1.31	0.79	0.40	0.12	90.7	59.9
24	0.12	0.41	0.82	1.38	2.19	3.47	6.30	15.0	43.7	45.7	16.3	6.87	3.77	2.35	1.48	0.88	0.45	0.15	151	122
	0.14	0.44	0.88	1.50	2.45	4.11	7.90	19.2	61.2	65.0	21.6	8.90	4.53	2.66	1.63	0.95	0.49	0.17	204	176
	0.15	0.46	0.91	1.58	2.61	4.51	8.97	21.9	69.0	73.5	24.7	10.2	5.02	2.86	1.72	0.99	0.51	0.19	230	202
	0.15	0.47	0.92	1.59	2.62	4.51	8.99	21.9	65.7	69.8	24.6	10.2	5.02	2.86	1.72	0.99	0.51	0.18	223	196
	0.13	0.44	0.88	1.50	2.44	4.02	7.55	18.4	57.9	62.5	20.9	8.58	4.37	2.62	1.62	0.95	0.50	0.18	195	167
	0.11	0.40	0.81	1.35	2.12	3.30	5.84	13.3	35.6	37.9	14.7	6.48	3.63	2.28	1.44	0.86	0.44	0.15	131	101
-24	0.07	0.33	0.69	1.17	1.79	2.67	4.34	8.55	18.8	20.1	9.44	4.77	2.90	1.91	1.25	0.77	0.39	0.11	80.0	48.7
-32	0.03	0.25	0.57	0.97	1.47	2.09	3.07	4.84	7.59	8.07	5.25	3.29	2.23	1.55	1.05	0.65	0.31	0.07	43.3	4.89
-40	0.01	0.14	0.44	0.75	1.15	1.58	2.09	2.64	2.88	2.82	2.62	2.14	1.66	1.22	0.85	0.50	0.21	0.02	23.7	0.00
-48	0.00	0.04	0.25	0.51	0.84	1.15	1.36	1.50	1.52	1.52	1.51	1.37	1.16	0.90	0.62	0.34	0.10	0.00	14.7	0.00
-56	0.00	0.01	0.08	0.28	0.49	0.67	0.88	1.03	1.12	1.12	1.04	0.91	0.73	0.54	0.33	0.14	0.01	0.00	9.38	0.00
-64	0.00	0.00	0.01	0.06	0.13	0.24	0.35	0.43	0.50	0.51	0.46	0.38	0.28	0.16	0.08	0.03	0.00	0.00	3.63	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	1.10	4.34	9.55	16.7	26.5	41.2	70.7	150	407	432	166	78.0	44.9	28.6	18.2	10.6	5.06	1.46	1512	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	17.7	119	383	408	137	27.9	0.00	0.00	0.00	0.00	0.00	0.00	---	1092

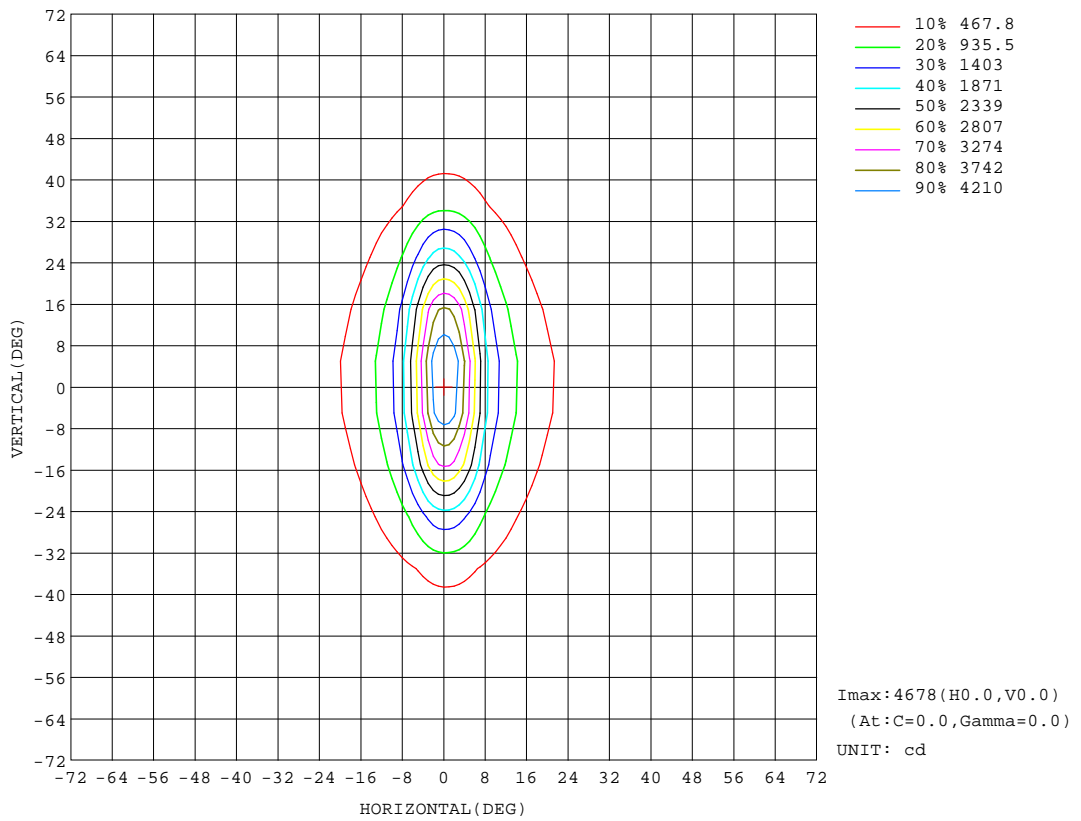
one-half-peak spread: U:20.5,D:23.8 , L:6.6,R:NEMA Beam Type: Type 3 x 5 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-21

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.5V I:0.1578A P:33.21W PF:0.9545 Lamp Flux:1514.01x1 lm		
NAME: 8.01.016.0087 10x45° LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080103
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

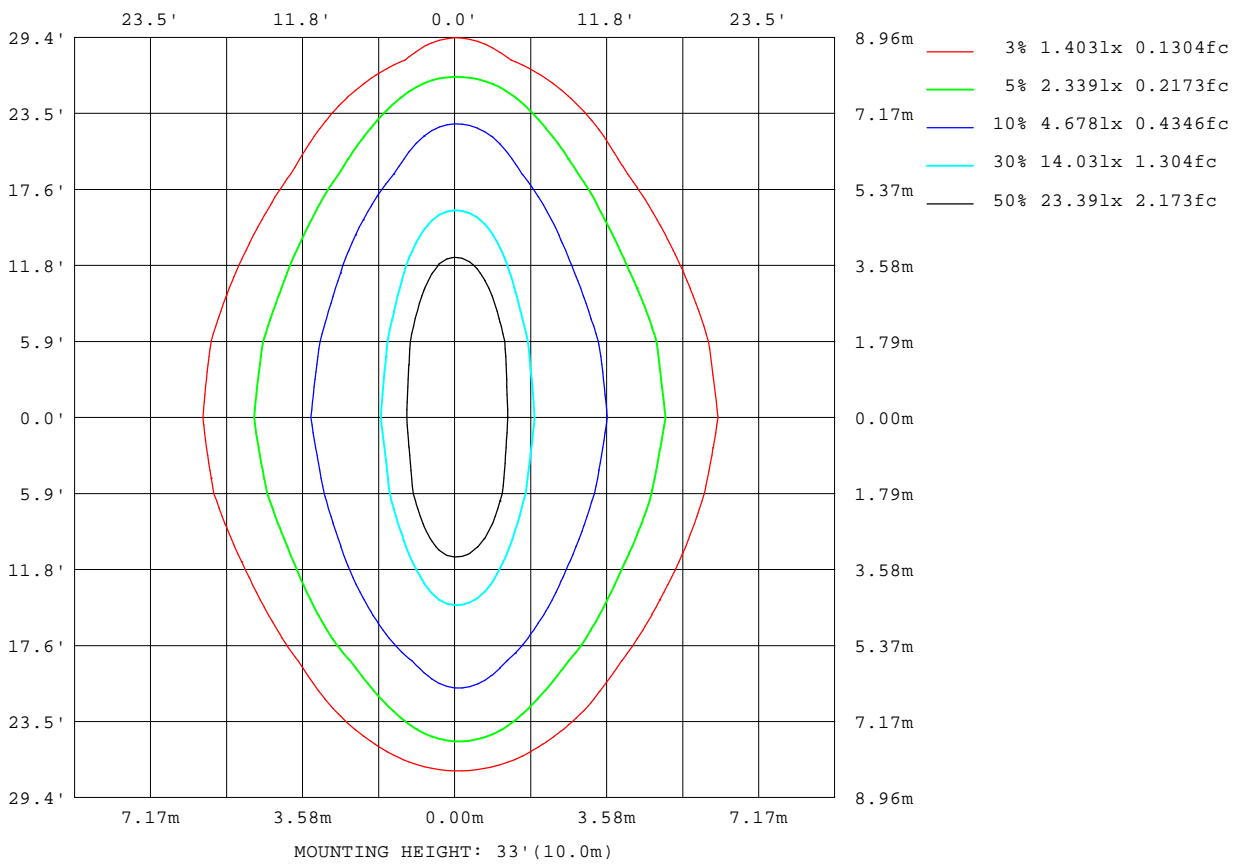


H(β) Range:-90 - 90DEG
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 Temperature:28.0DEG
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 Test Date:2024-08-21

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 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

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NAME: 8.01.016.0087 10x45° LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080103
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



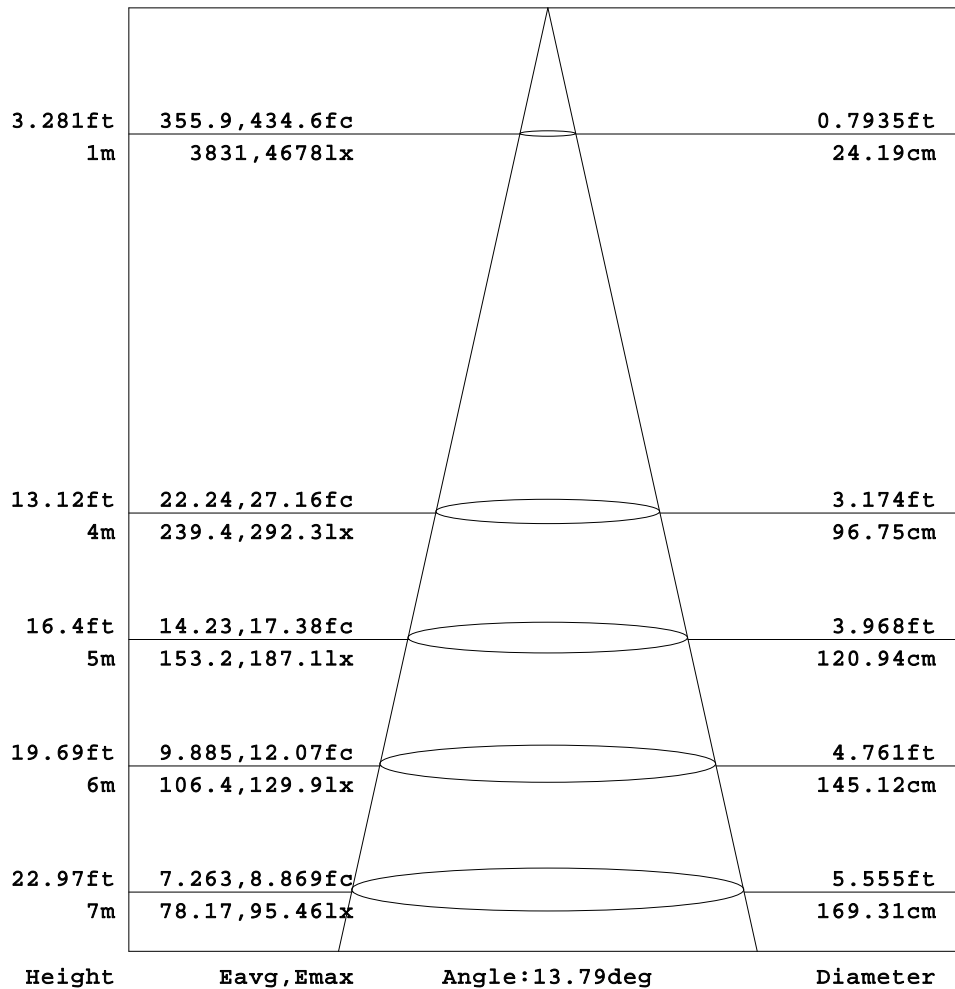
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-21

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.5V I:0.1578A P:33.21W PF:0.9545 Lamp Flux:1514.01x1 lm		
NAME: 8.01.016.0087 10x45° LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080103
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Flux out:181.4 lm

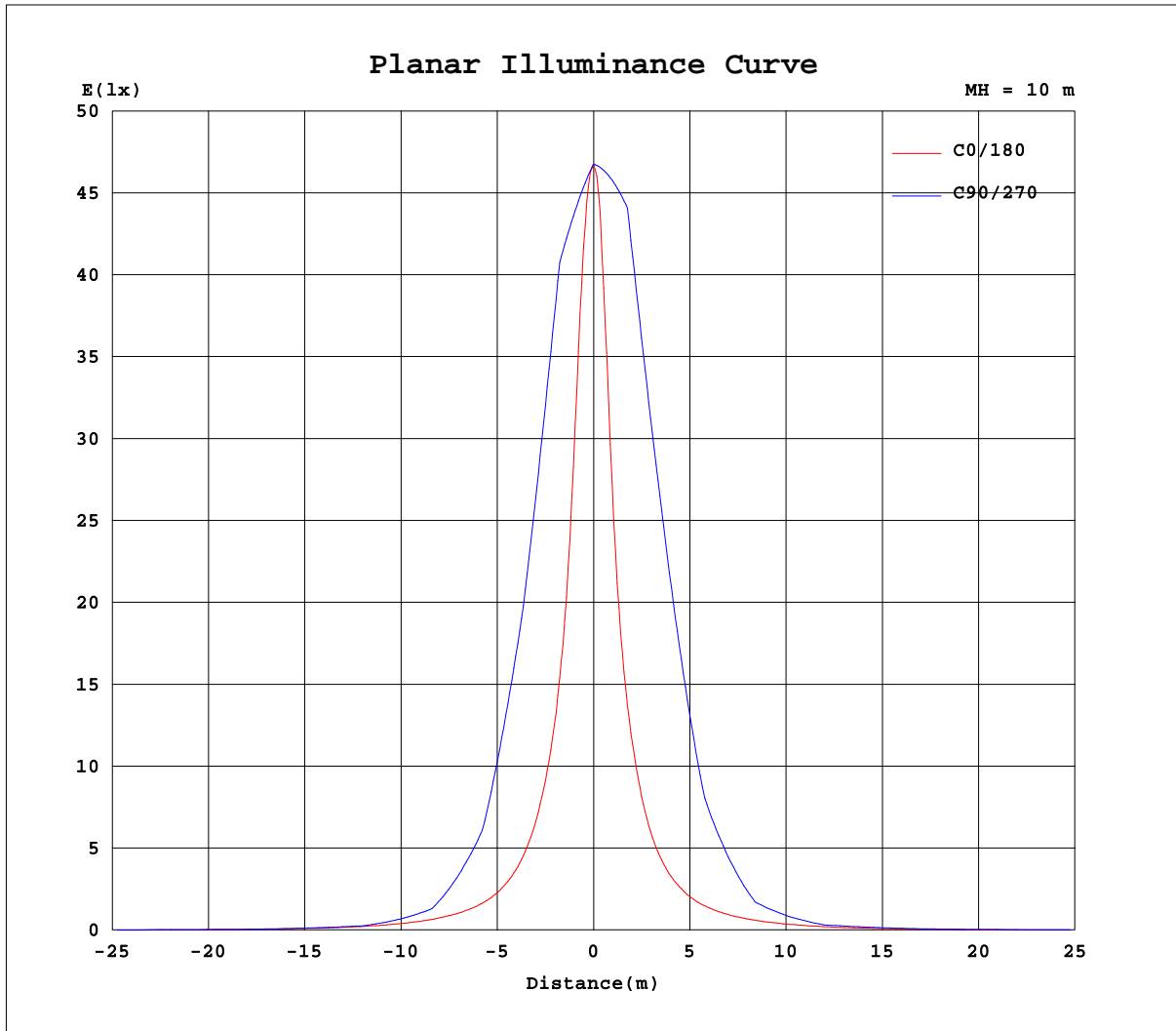


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-21

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



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V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:0.1578A P:33.21W PF:0.9545 Lamp Flux:1514.01x1 lm		
NAME: 8.01.016.0087 10x45° LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080103
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION 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	1.48	3.34	4.67	6.00	6.51	8.50	9.18	9.52
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.95	6.68	9.34	12.0	13.0	17.0	18.4	19.0
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	5.09	9.03	13.2	18.2	22.3	25.3	30.4	32.6	36.0	37.8	38.8
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	10.2	18.1	26.5	33.5	37.9	41.2	48.8	52.2	55.0	57.3	58.5
-55	0.00	0.00	0.00	0.00	0.00	0.00	2.77	8.73	19.9	28.9	37.0	47.3	54.1	59.3	66.3	71.5	75.9	79.7	81.7
-50	0.00	0.00	0.00	0.00	0.00	5.54	17.2	29.7	39.8	47.5	61.1	70.4	77.4	83.9	90.7	96.9	102	105	
-45	0.00	0.00	0.00	0.00	2.68	12.5	25.9	38.8	49.4	59.6	73.1	85.1	96.6	111	130	153	180	199	
-40	0.00	0.00	0.00	0.00	5.36	19.5	34.6	47.9	59.0	71.8	85.1	99.7	116	139	170	208	257	293	
-35	0.00	0.00	0.00	0.48	11.8	26.0	39.5	54.4	67.5	82.3	98.5	117	140	176	235	327	482	618	
-30	0.00	0.00	0.00	0.95	18.3	32.5	44.5	61.0	75.9	92.8	112	134	165	214	300	446	706	942	
-25	0.00	0.00	0.00	4.64	20.1	36.7	50.7	67.3	83.9	103	125	153	193	261	395	646	1170	1667	
-20	0.00	0.00	0.00	8.33	21.9	40.9	56.9	73.6	92.0	113	139	172	222	309	490	846	1634	2392	
-15	0.00	0.00	0.00	10.0	25.3	43.1	59.6	77.3	97.4	121	152	192	254	364	584	1040	2166	3329	
-10	0.00	0.00	0.00	11.7	28.7	45.3	62.3	81.0	103	130	164	211	286	418	679	1235	2698	4266	
-5	0.00	0.00	0.00	12.7	29.7	46.4	63.5	82.6	105	133	169	220	305	453	740	1335	2848	4472	
0	0.00	0.00	0.00	13.7	30.6	47.5	64.7	84.1	108	136	174	229	324	488	801	1435	2998	4678	
5	0.00	0.00	0.00	13.0	29.8	46.5	63.5	82.5	105	133	170	223	311	465	760	1368	2951	4646	
10	0.00	0.00	0.00	12.3	29.0	45.5	62.4	81.0	103	130	166	216	298	441	719	1300	2904	4614	
15	0.00	0.00	0.00	11.1	27.5	43.7	60.1	77.9	98.4	123	155	198	266	389	628	1132	2449	3794	
20	0.00	0.00	0.00	9.87	26.0	41.9	57.9	74.7	93.8	116	144	180	235	336	537	964	1994	2974	
25	0.00	0.00	0.00	7.26	22.7	38.1	53.5	69.1	86.2	106	129	159	204	281	434	745	1454	2107	
30	0.00	0.00	0.00	4.65	19.3	34.3	49.0	63.6	78.5	95.2	114	138	172	226	331	525	914	1241	
35	0.00	0.00	0.00	2.33	15.2	29.5	43.5	57.0	70.5	84.9	101	120	146	186	257	382	617	813	
40	0.00	0.00	0.00	0.00	11.1	24.6	38.0	50.5	62.5	74.6	87.6	102	120	145	183	239	321	385	
45	0.00	0.00	0.00	0.00	6.11	18.4	30.9	42.5	53.4	64.3	75.3	87.0	100	117	142	175	221	256	
50	0.00	0.00	0.00	0.00	1.14	12.3	23.8	34.5	44.4	54.0	63.0	71.7	80.3	89.6	100	111	121	128	
55	0.00	0.00	0.00	0.00	0.57	6.16	15.7	25.3	34.4	43.2	51.1	58.5	65.5	72.5	79.8	87.0	93.6	97.5	
60	0.00	0.00	0.00	0.00	0.00	0.00	7.57	16.1	24.4	32.3	39.3	45.3	50.7	55.4	59.4	63.0	65.9	67.3	
65	0.00	0.00	0.00	0.00	0.00	0.00	3.78	8.05	12.6	19.0	24.7	29.7	34.3	38.2	41.6	44.6	47.0	48.2	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	5.61	10.1	14.2	17.9	21.1	23.9	26.2	28.1	29.1		
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	2.81	5.05	7.12	8.95	10.6	11.9	13.1	14.0	14.5		
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	

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DIM.:	SPEC.:	SERIAL No.:2024080103
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H(DEG) V(DEG)	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	9.33	8.76	7.98	6.96	5.68	4.21	2.53	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	18.7	17.5	16.0	13.9	11.4	8.41	5.05	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	38.2	36.6	34.4	31.7	28.4	24.5	20.1	15.3	11.2	7.56	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	57.7	55.6	52.8	49.5	45.4	40.5	35.1	29.1	22.4	15.1	6.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	80.3	77.0	72.4	67.3	62.0	56.1	49.6	42.7	34.5	25.3	15.6	6.37	0.14	0.00	0.00	0.00	0.00	0.00
-50	103	98.3	92.0	85.0	78.5	71.6	64.1	56.2	46.6	35.5	25.2	12.7	0.28	0.00	0.00	0.00	0.00	0.00
-45	184	157	133	115	101	88.7	76.9	66.6	55.9	44.0	32.5	19.9	5.97	0.00	0.00	0.00	0.00	0.00
-40	266	215	175	145	124	106	89.7	77.0	65.3	52.5	39.7	27.0	11.7	0.00	0.00	0.00	0.00	0.00
-35	527	355	254	190	151	125	104	87.8	73.7	59.9	46.3	32.5	17.3	3.44	0.00	0.00	0.00	0.00
-30	788	495	332	234	179	144	119	98.6	82.2	67.4	52.9	38.0	23.0	6.88	0.00	0.00	0.00	0.00
-25	1306	714	437	290	212	167	134	110	89.8	72.7	56.9	41.4	26.0	9.92	0.00	0.00	0.00	0.00
-20	1824	932	542	345	245	189	150	121	97.5	78.0	60.9	44.9	29.1	13.0	0.00	0.00	0.00	0.00
-15	2455	1167	658	409	280	209	163	130	104	82.9	64.6	47.9	31.5	14.9	0.06	0.00	0.00	0.00
-10	3087	1402	774	473	315	229	176	139	111	87.8	68.3	50.9	34.0	16.9	0.12	0.00	0.00	0.00
-5	3213	1507	839	512	338	242	184	144	114	89.5	69.3	51.5	34.5	17.2	0.35	0.00	0.00	0.00
0	3339	1612	905	550	361	255	191	148	116	91.1	70.3	52.1	35.0	17.6	0.58	0.00	0.00	0.00
5	3308	1539	860	525	348	246	186	145	114	89.8	69.4	51.5	34.4	17.2	0.35	0.00	0.00	0.00
10	3276	1467	816	500	334	237	181	142	113	88.5	68.4	50.8	33.9	16.9	0.13	0.00	0.00	0.00
15	2718	1255	699	433	295	216	167	133	106	84.3	65.3	48.1	31.7	15.1	0.07	0.00	0.00	0.00
20	2159	1043	582	366	256	196	154	124	100	80.0	62.1	45.5	29.6	13.3	0.01	0.00	0.00	0.00
25	1575	809	472	306	221	173	140	114	93.2	74.8	58.1	42.3	26.8	11.1	0.00	0.00	0.00	0.00
30	991	576	362	246	186	151	125	104	86.0	69.5	54.2	39.1	24.0	8.98	0.00	0.00	0.00	0.00
35	663	414	278	200	157	130	109	91.8	76.5	62.1	48.1	33.9	19.7	5.63	0.00	0.00	0.00	0.00
40	335	252	195	154	128	109	93.3	79.7	67.0	54.7	42.0	28.7	15.4	2.29	0.00	0.00	0.00	0.00
45	229	183	149	124	106	92.3	80.1	68.9	57.7	46.4	34.6	22.4	10.3	1.15	0.00	0.00	0.00	0.00
50	123	114	104	93.7	84.6	75.7	66.9	58.0	48.5	38.1	27.2	16.2	5.23	0.00	0.00	0.00	0.00	0.00
55	95.0	89.4	82.9	76.2	69.5	62.3	54.4	46.3	37.5	28.2	18.6	8.93	2.62	0.00	0.00	0.00	0.00	0.00
60	66.8	64.9	62.1	58.6	54.4	48.9	41.8	34.5	26.5	18.4	10.1	1.68	0.00	0.00	0.00	0.00	0.00	0.00
65	47.7	46.1	43.8	40.9	37.4	32.9	27.5	21.6	15.0	9.18	5.04	0.84	0.00	0.00	0.00	0.00	0.00	0.00
70	28.7	27.4	25.6	23.3	20.4	17.0	13.1	8.67	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	14.3	13.7	12.8	11.7	10.2	8.48	6.53	4.33	1.72	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:2024-08-21

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: