

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

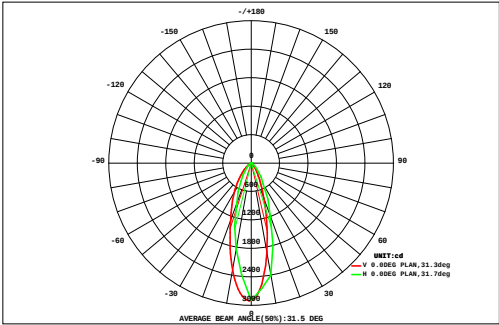
Maximum Intensity (Luminaire orientation as tested.)		2136.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	73.9V x 72.8H
	At 50% of Imax	31.8V x 31.3H
	At 90% of Imax	9.2V x 11.3H
Beam Flux	Total	999.4 lumens per klm.
	To 10% of Imax	850.1 lumens per klm.
	To 50% of Imax	351.2 lumens per klm.
	To 90% of Imax	39.9 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.9 %
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:2024-01-16

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:120.0V I:0.2911A P:34.79W PF:0.9959 Lamp Flux:1357.54x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010077
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:39.03lm/W	
MODEL	LWW-PZT-W38A-L12-DMX	Imax(cd)	2900
NOMINAL POWER(W)	34	AVAILABILITY(%)	85.1
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1155
NOMINAL FLUX(lm)	1357.54	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1358
TEST VOLTAGE(V)	120.0	θ @50%(H,V)	31,32DEG

		AREA FLUX DIAGRAM															UNIT:lm			Φ t	Φ a
VERTICAL (DEG)	72	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.12	0.00	
	64	0.00	0.00	0.00	0.00	0.00	0.11	0.25	0.35	0.37	0.32	0.22	0.10	0.01	0.00	0.00	0.00	0.00	1.73	0.00	
	56	0.00	0.00	0.00	0.14	0.44	0.84	1.22	1.45	1.47	1.28	0.97	0.64	0.35	0.14	0.01	0.00	0.00	8.94	0.00	
	48	0.00	0.00	0.10	0.51	1.23	2.09	2.87	3.31	3.29	2.84	2.17	1.47	0.88	0.41	0.12	0.01	0.00	21.3	0.00	
	40	0.00	0.02	0.34	1.14	2.41	3.96	5.45	6.39	6.40	5.52	4.13	2.73	1.62	0.83	0.33	0.05	0.00	41.3	15.3	
	32	0.00	0.08	0.66	1.91	3.91	6.53	9.37	11.6	12.0	10.5	7.62	4.72	2.63	1.34	0.58	0.15	0.00	73.5	59.5	
	24	0.00	0.18	1.01	2.74	5.66	9.86	15.1	20.4	23.1	20.8	14.4	8.02	3.97	1.86	0.80	0.25	0.01	128	117	
		0.00	0.25	1.25	3.36	7.00	12.5	20.4	31.4	40.2	37.5	24.0	11.9	5.31	2.34	0.99	0.33	0.03	199	189	
		0.00	0.30	1.38	3.71	7.75	14.0	23.5	38.6	52.2	49.3	30.5	14.4	6.12	2.63	1.10	0.37	0.04	246	237	
		0.00	0.30	1.38	3.66	7.65	13.8	22.9	37.6	50.7	48.0	29.8	14.1	6.06	2.62	1.09	0.37	0.04	240	231	
		0.00	0.24	1.19	3.17	6.53	11.6	18.3	26.2	31.5	29.3	20.2	10.8	5.06	2.27	0.98	0.33	0.04	168	158	
	-24	0.00	0.16	0.91	2.42	4.88	8.40	12.7	16.5	17.9	16.0	11.6	6.94	3.61	1.74	0.77	0.24	0.02	105	93.0	
-32	0.00	0.07	0.58	1.66	3.37	5.59	8.05	9.86	10.2	8.91	6.69	4.29	2.44	1.26	0.56	0.16	0.00	63.7	47.9		
-40	0.00	0.02	0.29	0.97	2.03	3.28	4.52	5.34	5.38	4.69	3.58	2.45	1.50	0.81	0.34	0.07	0.00	35.3	6.65		
-48	0.00	0.00	0.08	0.43	0.99	1.67	2.31	2.68	2.64	2.32	1.85	1.34	0.83	0.42	0.14	0.01	0.00	17.7	0.00		
-56	0.00	0.00	0.00	0.08	0.32	0.64	0.89	1.03	1.06	0.95	0.76	0.53	0.32	0.13	0.02	0.00	0.00	6.74	0.00		
-64	0.00	0.00	0.00	0.01	0.05	0.12	0.21	0.28	0.30	0.27	0.19	0.11	0.04	0.02	0.00	0.00	0.00	1.59	0.00		
-72	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.04	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.19	0.00		
		-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72
Φ t	0.01	1.61	9.17	25.9	54.2	95.0	148	213	259	239	159	84.5	40.8	18.8	7.82	2.33	0.19	0.00	1358	---	
Φ a	0.00	0.00	0.00	4.53	38.5	81.5	134	199	244	224	144	67.5	17.3	0.00	0.00	0.00	0.00	0.00	---	1155	

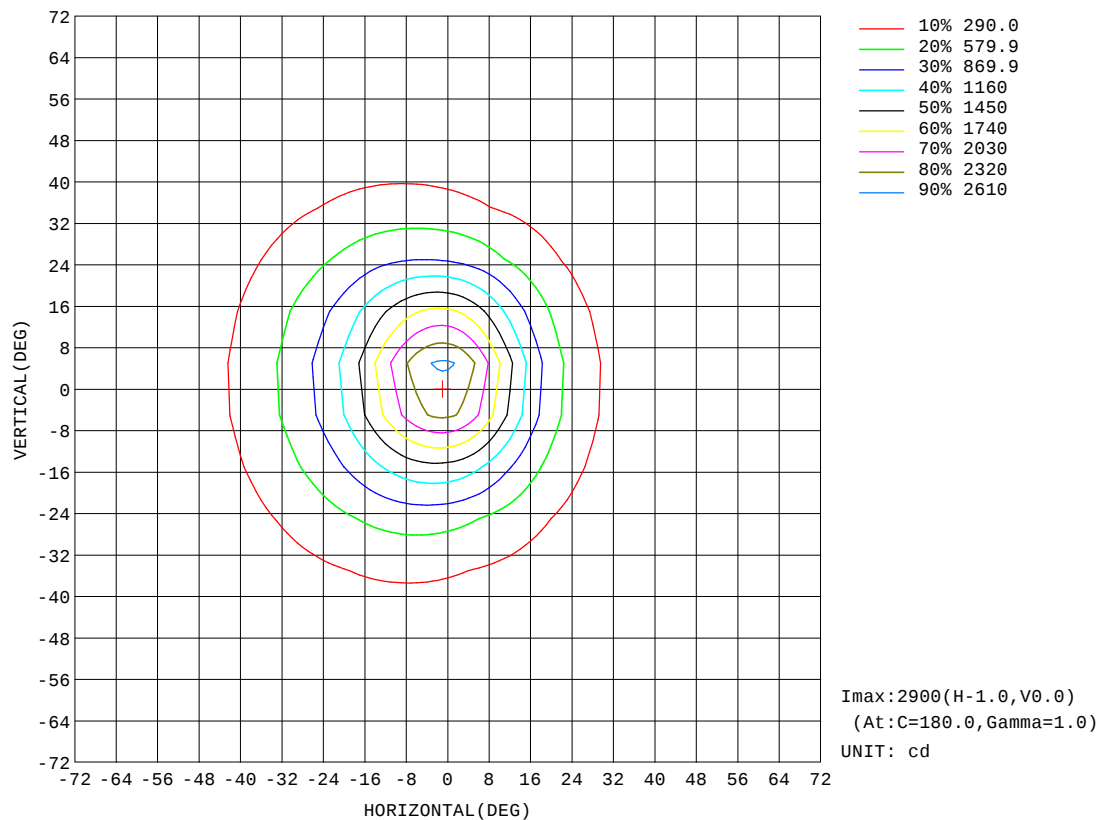
one-half-peak spread: U:14.4,D:17.7 , L:17.1,R:14.5 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-16

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

Test:U:120.0V I:0.2911A P:34.79W PF:0.9959 Lamp Flux:1357.54x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010077
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

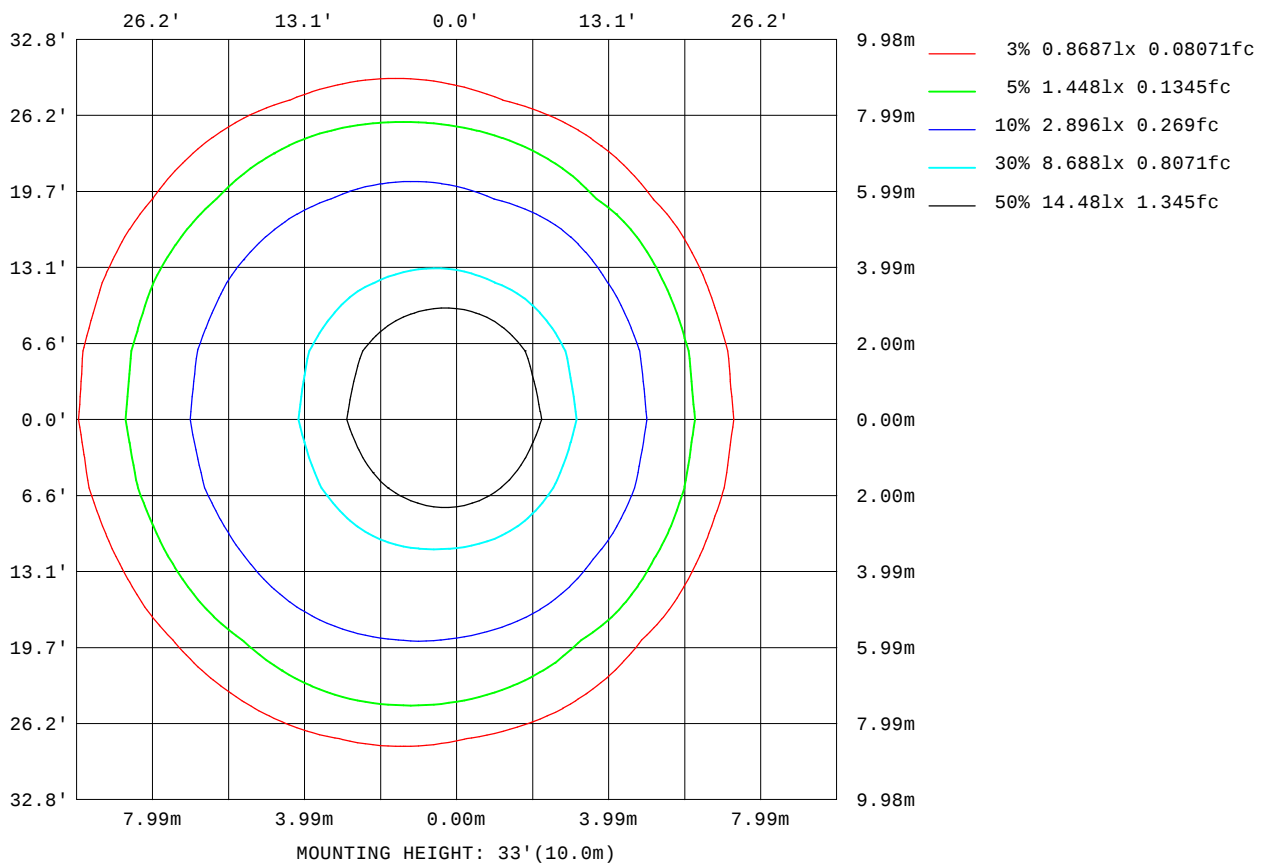


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Remarks:

ISOLUX DIAGRAM

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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

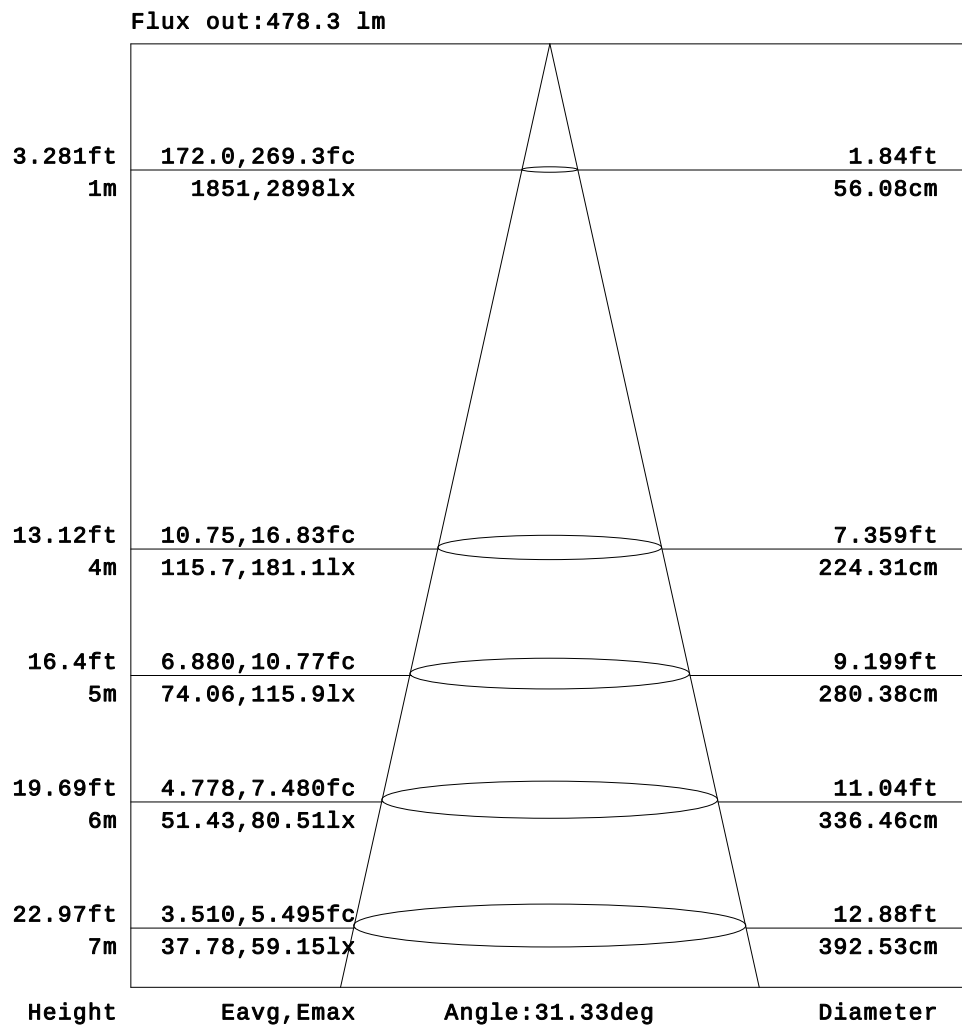


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-16

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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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AAI Figure

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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

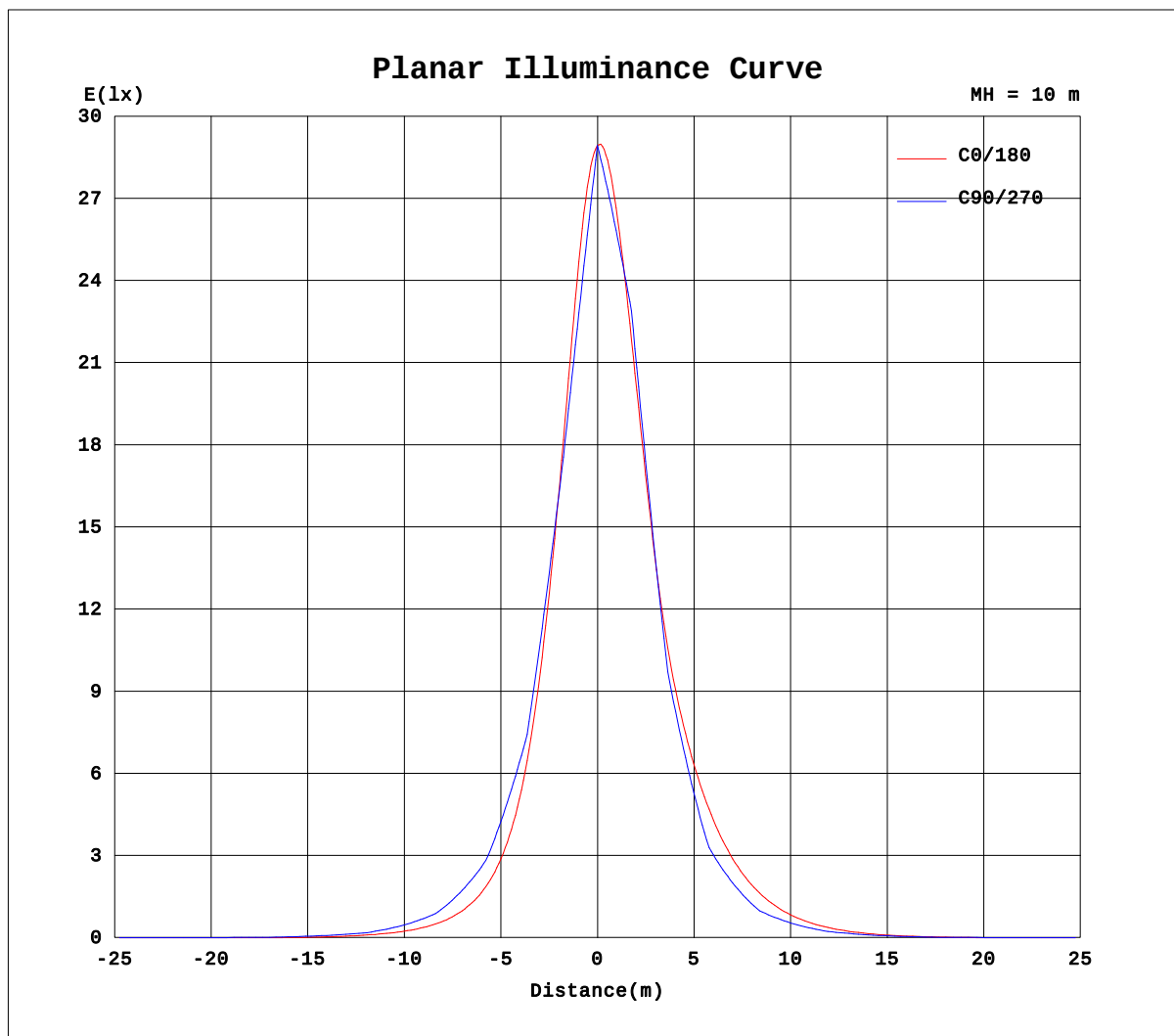


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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Operators:QC1
Test Date:2024-01-16

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

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2024010077
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	0.00	0.00	0.00	0.00	0.00	0.00	0.77	2.84	4.64	6.00	6.92	7.27	7.05
-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	1.54	5.68	9.29	12.0	13.8	14.5	14.1
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67	9.58	16.7	24.5	32.5	38.9	43.2	45.5	45.6	43.4
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.34	19.2	33.4	47.5	59.3	68.4	74.4	77.2	76.7	72.8
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	10.4	24.6	44.0	66.2	88.8	109	127	140	145	143	135
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.43	20.8	41.9	68.9	99.0	130	158	185	205	213	209	197
-35	0.00	0.00	0.00	0.00	0.00	0.00	1.19	13.2	36.7	67.6	106	150	195	239	283	317	334	334	316
-30	0.00	0.00	0.00	0.00	0.00	0.00	2.39	23.1	52.6	93.4	144	200	260	321	380	428	456	459	436
-25	0.00	0.00	0.00	0.00	0.00	0.00	8.25	35.0	73.4	125	188	264	348	442	537	620	676	694	666
-20	0.00	0.00	0.00	0.00	0.00	0.00	14.1	46.9	94.2	156	232	328	437	563	694	813	896	928	896
-15	0.00	0.00	0.00	0.00	0.00	0.01	18.7	55.9	110	184	276	392	530	691	871	1069	1250	1366	1367
-10	0.00	0.00	0.00	0.00	0.00	0.03	23.3	64.8	126	212	319	457	624	820	1049	1325	1605	1804	1839
-5	0.00	0.00	0.00	0.00	0.00	0.50	25.9	69.7	135	225	342	491	674	891	1163	1534	1946	2273	2366
0	0.00	0.00	0.00	0.00	0.00	0.97	28.5	74.6	144	238	364	526	724	963	1276	1742	2287	2741	2894
5	0.00	0.00	0.00	0.00	0.00	0.50	26.5	71.3	138	231	353	508	700	929	1224	1646	2129	2524	2645
10	0.00	0.00	0.00	0.00	0.00	0.03	24.6	68.0	133	225	341	490	675	895	1172	1549	1972	2307	2397
15	0.00	0.00	0.00	0.00	0.00	0.02	20.5	59.7	119	200	303	435	594	778	998	1269	1548	1750	1784
20	0.00	0.00	0.00	0.00	0.00	0.00	16.5	51.4	105	176	266	380	512	662	823	989	1124	1193	1171
25	0.00	0.00	0.00	0.00	0.00	0.00	10.1	39.4	83.4	143	218	308	411	524	640	751	833	866	840
30	0.00	0.00	0.00	0.00	0.00	0.00	3.67	27.3	62.2	110	170	236	310	386	456	513	542	540	509
35	0.00	0.00	0.00	0.00	0.00	0.00	1.84	16.6	43.7	80.7	127	179	234	289	338	375	393	389	365
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	25.2	51.7	84.4	121	158	192	220	237	244	238	221
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95	12.6	30.9	54.3	80.8	107	132	152	165	170	166	155
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	10.1	24.1	40.3	56.8	72.3	84.6	92.5	96.1	94.6	88.6	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	5.03	12.0	20.2	30.5	40.8	49.1	54.7	57.5	57.0	53.5	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	9.28	13.6	16.9	19.0	19.5	18.4	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	4.64	6.79	8.45	9.49	9.73	9.20	
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	
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	
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.:2024010077
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	6.23	5.04	3.53	1.90	0.22	0.00	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	12.5	10.1	7.05	3.79	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	0.00
-55	39.4	34.2	28.1	21.8	15.6	11.1	6.89	3.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	66.4	58.2	49.2	39.9	30.8	22.1	13.8	6.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	122	106	88.8	72.0	55.5	40.3	27.3	16.3	6.79	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	177	154	128	104	80.1	58.4	40.9	26.4	13.6	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-35	283	241	195	153	115	83.6	58.7	39.0	22.6	9.59	1.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-30	390	329	262	202	150	109	76.5	51.6	31.7	15.8	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-25	597	500	391	289	205	143	97.3	64.6	40.2	21.2	7.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-20	805	671	520	375	260	177	118	77.6	48.7	26.6	10.4	0.01	0.00	0.00	0.00	0.00	0.00	0.00
-15	1231	990	727	497	328	213	139	90.0	56.4	31.4	13.3	1.10	0.00	0.00	0.00	0.00	0.00	0.00
-10	1657	1310	934	619	396	250	160	102	64.2	36.2	16.2	2.19	0.00	0.00	0.00	0.00	0.00	0.00
-5	2111	1607	1099	699	433	269	170	107	66.7	37.7	17.0	2.58	0.00	0.00	0.00	0.00	0.00	0.00
0	2564	1903	1265	779	470	289	181	113	69.3	39.2	17.8	2.97	0.00	0.00	0.00	0.00	0.00	0.00
5	2347	1757	1180	735	448	276	174	109	67.2	37.8	17.0	2.48	0.00	0.00	0.00	0.00	0.00	0.00
10	2129	1610	1095	691	426	264	167	106	65.1	36.5	16.2	1.99	0.00	0.00	0.00	0.00	0.00	0.00
15	1588	1227	860	562	358	228	146	93.7	57.8	31.8	13.2	1.00	0.00	0.00	0.00	0.00	0.00	0.00
20	1048	844	625	433	290	192	126	81.7	50.4	27.2	10.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	749	611	462	330	228	155	104	67.9	41.4	21.4	6.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	451	378	300	227	166	119	82.0	54.1	32.5	15.6	3.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	324	273	219	168	125	90.1	62.2	40.1	22.9	9.31	1.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	197	168	138	110	84.2	61.6	42.4	26.2	13.2	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	138	118	97.0	77.1	58.8	42.1	27.8	15.7	6.60	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	79.5	68.2	56.3	44.5	33.3	22.7	13.1	5.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	47.8	40.6	32.8	24.9	17.4	11.3	6.57	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	16.2	13.0	9.28	5.35	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	8.08	6.52	4.64	2.68	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	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
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
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:27.1DEG
Operators:QC1
Test Date:2024-01-16

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