

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2299.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	70.4V x 69.8H
	At 50% of Imax	30.1V x 29.8H
	At 90% of Imax	8.0V x 10.5H

Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	831.5 lumens per klm.
	To 50% of Imax	339.1 lumens per klm.
	To 90% of Imax	36.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

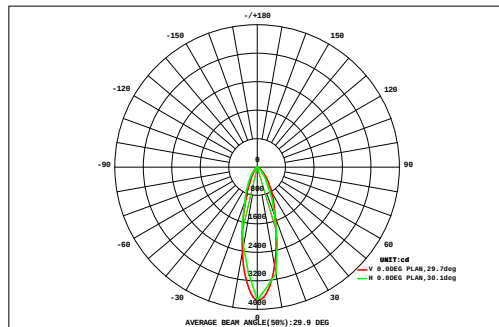
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-16

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:119.9V I:0.2963A P:35.38W PF:0.9961 Lamp Flux:1624.39x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010076
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:45.91lm/W	
MODEL	LWW-PZT-W38A-L12-DMX	Imax(cd)	3736
NOMINAL POWER(W)	36	AVAILABILITY(%)	83.3
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1354
NOMINAL FLUX(lm)	1624.39	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1624
TEST VOLTAGE(V)	119.9	θ @50%(H,V)	30,30DEG

AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a
72	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.18	0.00
64	0.00	0.00	0.00	0.00	0.00	0.03	0.15	0.30	0.43	0.50	0.48	0.38	0.23	0.06	0.00	0.00	0.00	2.57	0.00
56	0.00	0.00	0.00	0.02	0.16	0.41	0.76	1.14	1.50	1.73	1.74	1.51	1.10	0.63	0.26	0.04	0.00	11.0	0.00
48	0.00	0.00	0.01	0.13	0.47	1.02	1.71	2.51	3.28	3.79	3.83	3.36	2.50	1.55	0.75	0.21	0.02	25.1	0.00
40	0.00	0.00	0.06	0.39	0.99	1.92	3.21	4.81	6.38	7.38	7.34	6.23	4.51	2.79	1.42	0.51	0.07	48.0	13.4
32	0.00	0.00	0.18	0.66	1.56	3.07	5.51	8.84	12.1	13.9	13.3	10.7	7.37	4.44	2.29	0.89	0.18	85.0	65.1
24	0.00	0.02	0.28	0.92	2.15	4.56	9.35	17.2	25.1	27.8	24.0	17.3	11.1	6.42	3.23	1.29	0.31	151	136
	0.00	0.03	0.33	1.07	2.56	5.75	13.2	28.3	46.3	50.7	39.2	24.5	14.6	8.19	4.05	1.64	0.44	241	227
	0.00	0.04	0.38	1.17	2.81	6.52	15.8	36.1	61.4	67.1	49.1	28.7	16.5	9.10	4.45	1.81	0.49	302	289
	0.00	0.05	0.41	1.23	2.91	6.77	16.6	37.2	61.2	64.3	45.8	26.8	15.6	8.65	4.22	1.69	0.44	294	281
	0.00	0.04	0.34	1.07	2.50	5.46	12.0	23.5	35.2	38.1	31.3	21.5	13.4	7.59	3.78	1.54	0.41	198	184
	0.00	0.01	0.25	0.82	1.86	3.76	7.30	12.7	18.2	20.9	19.5	15.1	10.0	5.89	3.02	1.24	0.32	121	104
-24	0.00	0.00	0.14	0.56	1.34	2.58	4.54	7.18	9.83	11.5	11.5	9.59	6.78	4.16	2.21	0.90	0.20	73.0	50.6
-32	0.00	0.00	0.06	0.34	0.87	1.66	2.68	3.91	5.14	6.05	6.20	5.41	4.01	2.56	1.37	0.52	0.08	40.9	1.98
-40	0.00	0.00	0.01	0.15	0.47	0.95	1.55	2.19	2.71	3.05	3.11	2.78	2.08	1.33	0.65	0.18	0.01	21.2	0.00
-48	0.00	0.00	0.00	0.01	0.13	0.36	0.63	0.89	1.13	1.28	1.29	1.15	0.90	0.56	0.22	0.04	0.00	8.61	0.00
-56	0.00	0.00	0.00	0.00	0.01	0.04	0.12	0.23	0.34	0.40	0.40	0.34	0.23	0.12	0.05	0.01	0.00	2.30	0.00
-64	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.06	0.06	0.05	0.03	0.01	0.00	0.00	0.00	0.32	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
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)	16	24	32	40	48	56	64	72		
Φ t	0.00	0.20	2.43	8.54	20.8	44.9	95.1	187	290	319	258	175	111	64.1	32.0	12.5	2.96	0.11	1624
Φ a	0.00	0.00	0.00	0.00	0.00	12.9	71.7	167	272	299	238	157	92.4	41.0	3.01	0.00	0.00	0.00	1354

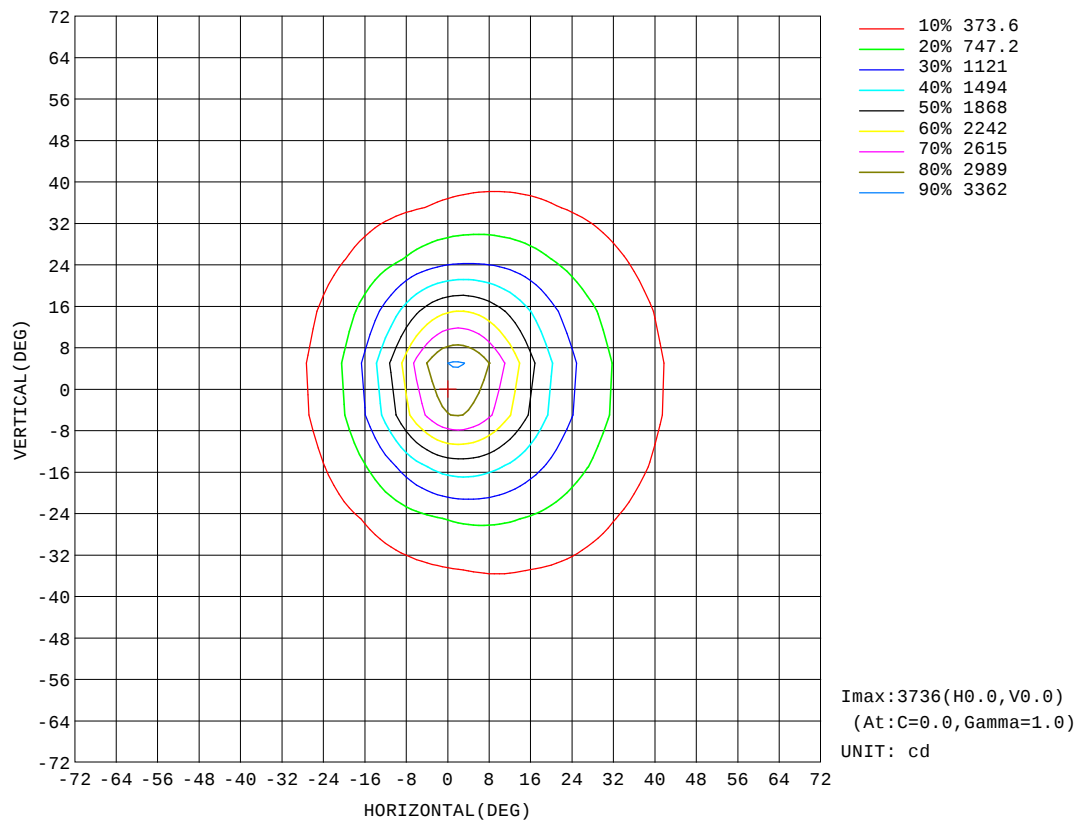
one-half-peak spread: U:13.3,D:17.0 , L:13.3, Beam Type: Type 4 x 5 (H x V)

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:119.9V I:0.2963A P:35.38W PF:0.9961 Lamp Flux:1624.39x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010076
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

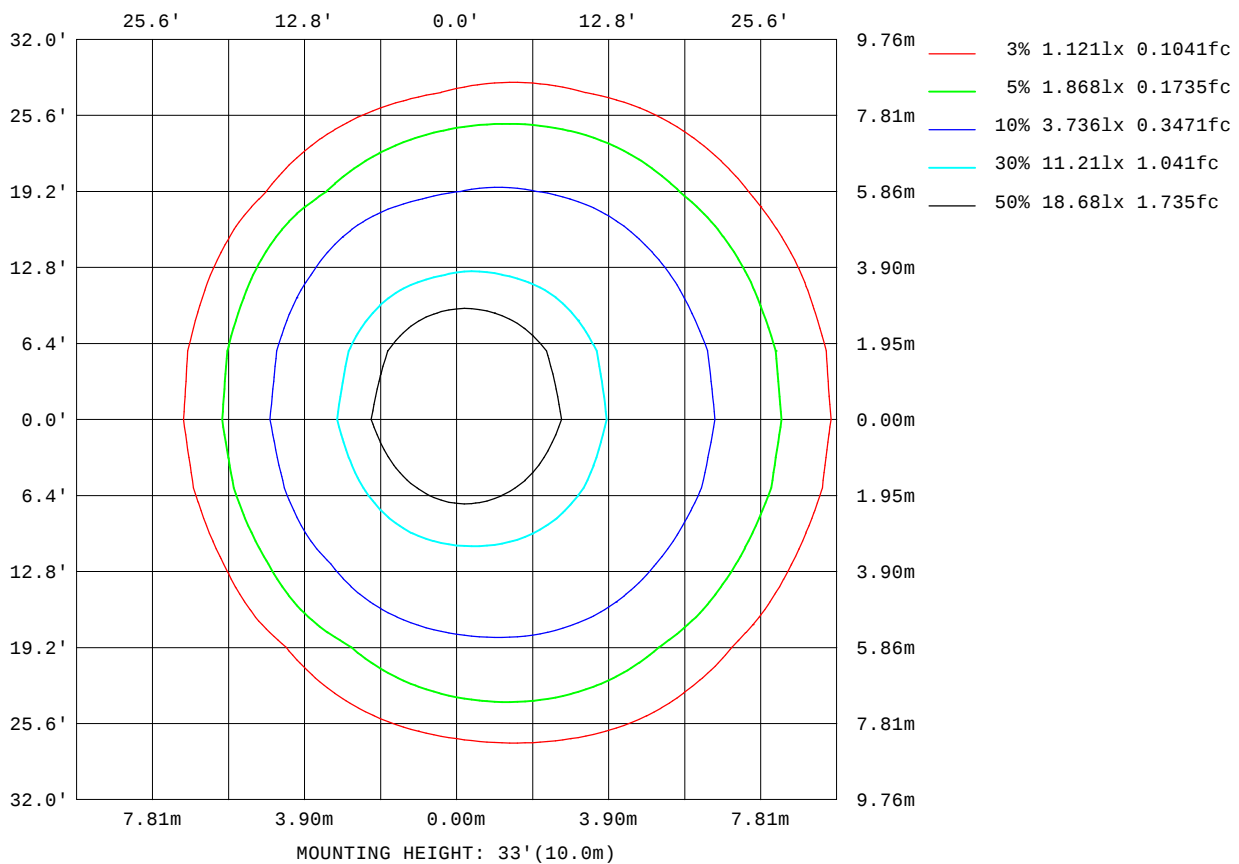


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024010076
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

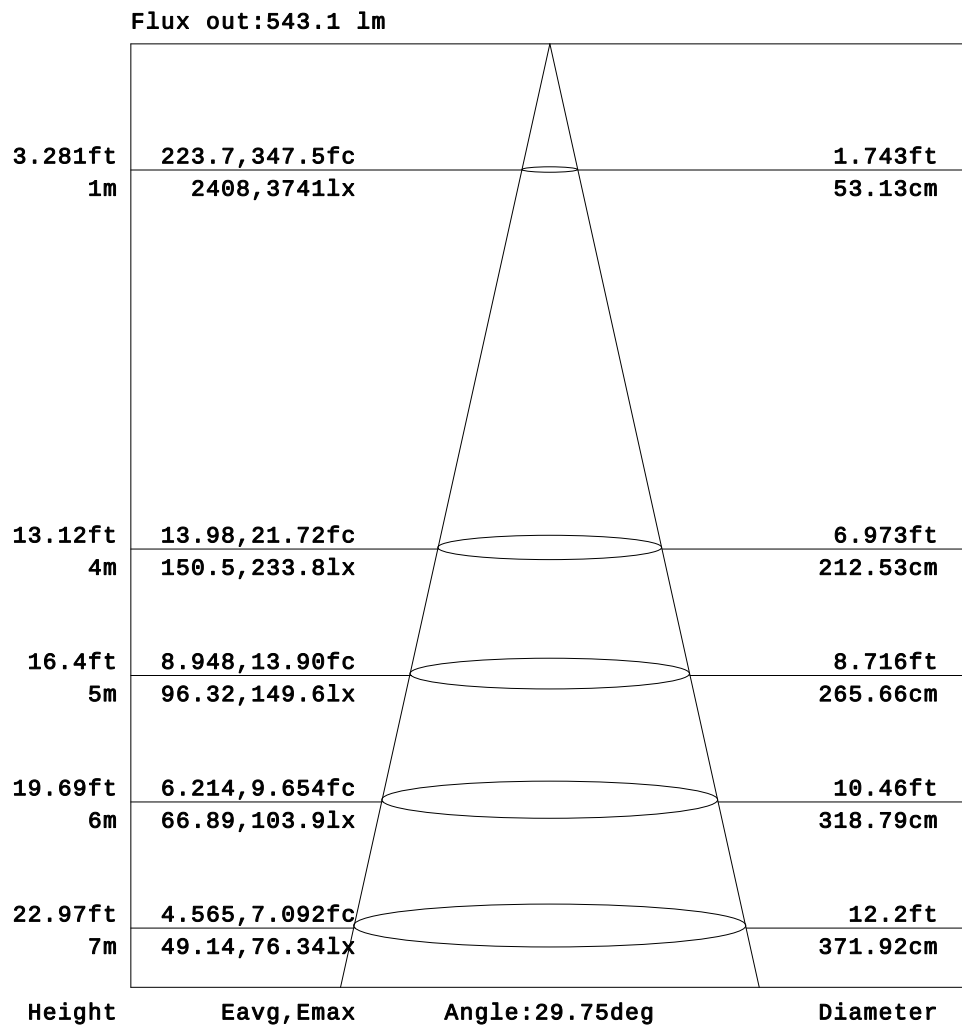


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-16

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:

AAI Figure

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NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010076
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

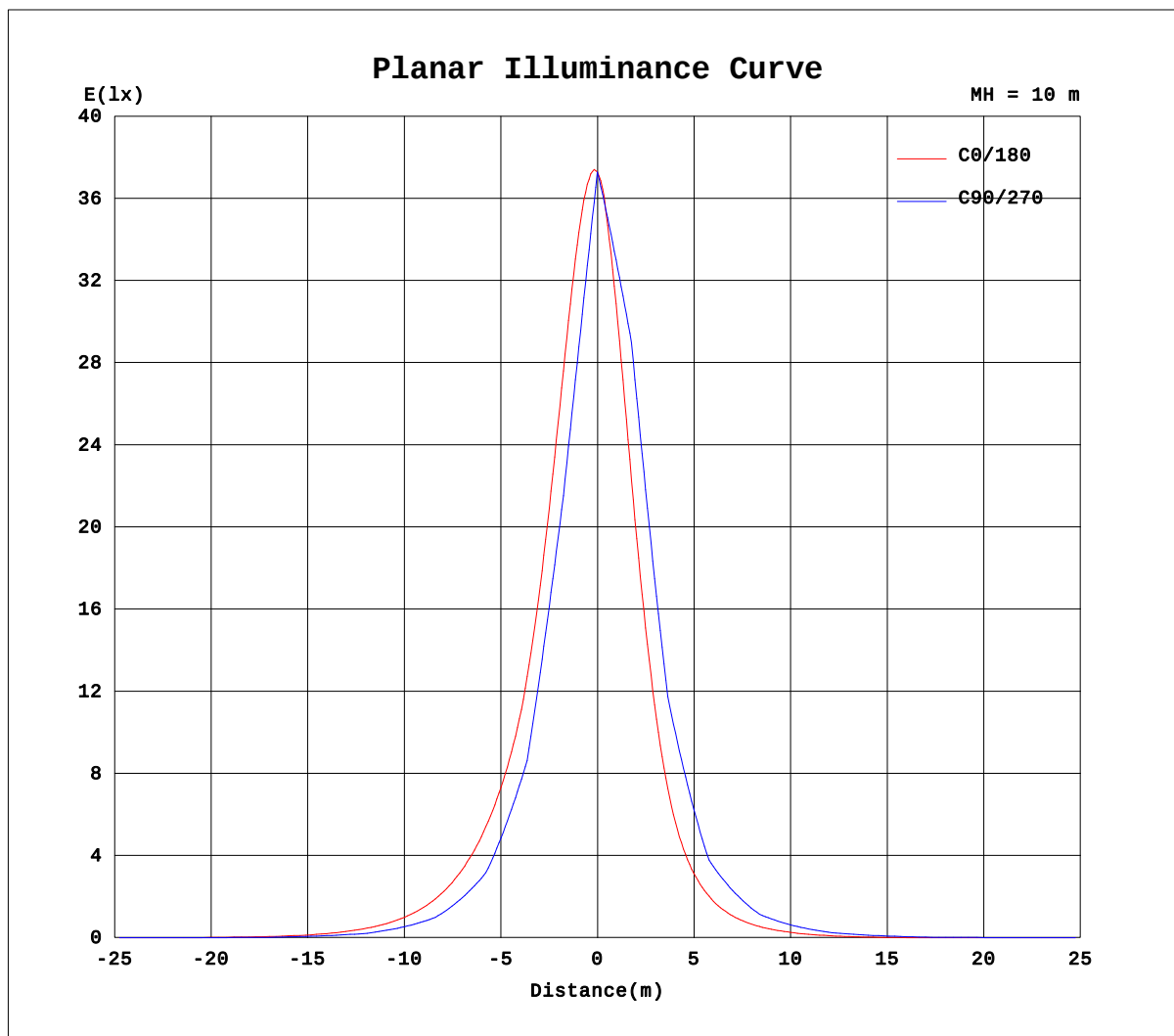


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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:

Planar Illuminance Curve



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:

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2024010076
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	0.00	0.68	2.69	4.70	6.62	8.31	9.68
-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	2.14	6.20	10.2	14.0	17.2	19.8
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	6.64	11.8	17.7	25.1	32.7	39.9	46.6	52.1
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	5.97	15.3	25.6	36.1	47.0	58.1	68.6	78.3	86.1
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	6.03	15.0	28.0	43.3	59.5	78.5	98.7	119	137	153
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.78	14.7	28.5	46.6	67.1	90.0	118	147	176	203	224
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	7.60	20.9	38.9	61.7	89.4	122	162	210	261	311	352
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.26	16.1	33.7	57.3	87.1	124	169	225	293	366	437	493
-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.24	19.6	39.7	66.8	102	149	213	303	417	547	669	758
-20	0.00	0.00	0.00	0.00	0.00	0.00	0.27	12.0	30.0	55.5	88.7	133	196	289	423	592	779	943	1048
-15	0.00	0.00	0.00	0.00	0.00	0.00	0.31	11.5	30.2	57.1	93.5	144	218	334	518	786	1116	1436	1637
-10	0.00	0.00	0.00	0.00	0.00	0.00	2.45	17.5	39.7	71.8	115	180	279	440	707	1106	1589	2035	2262
-5	0.00	0.00	0.00	0.00	0.00	0.00	1.11	15.3	36.8	68.3	112	176	276	444	738	1222	1867	2545	2975
0	0.00	0.00	0.00	0.00	0.00	0.00	4.06	20.5	44.7	80.0	129	204	329	540	928	1576	2427	3283	3736
5	0.00	0.00	0.00	0.00	0.00	0.00	1.18	15.6	37.4	69.6	115	181	287	466	784	1322	2060	2857	3362
10	0.00	0.00	0.00	0.00	0.00	0.00	2.75	18.2	41.2	74.9	122	192	304	490	815	1337	2023	2702	3045
15	0.00	0.00	0.00	0.00	0.00	0.00	0.37	12.3	32.0	60.7	101	157	243	382	609	961	1427	1910	2210
20	0.00	0.00	0.00	0.00	0.00	0.00	0.49	13.0	32.5	60.6	99.4	151	228	347	520	757	1033	1279	1424
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.22	21.7	43.9	74.6	115	171	253	367	520	701	873	992
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.71	18.6	38.0	64.3	98.1	141	198	269	352	441	524	588
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	9.32	24.0	43.7	69.3	101	142	190	247	308	367	416
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.16	16.9	32.5	52.3	76.2	103	133	166	200	232	258
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	7.14	17.4	31.3	48.3	67.6	88.9	112	136	159	178
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	7.10	16.7	27.8	40.4	53.9	67.8	81.5	94.2	105
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	7.37	12.7	20.5	29.4	38.7	47.9	56.4	63.5
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	0.15	4.13	8.69	13.4	17.9	21.7	24.6
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	1.63	3.87	6.21	8.50	10.5	12.1
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
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
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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V(B) Range:-80 - 80DEG
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Humidity:61%
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NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010076
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	10.4	10.5	9.95	8.69	6.89	4.69	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	20.9	21.0	19.5	16.8	13.0	8.41	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	55.6	57.2	55.9	52.1	46.0	37.9	28.6	18.8	10.8	4.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	91.3	93.3	91.2	85.2	76.1	63.9	49.8	34.4	18.7	6.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	164	169	167	157	139	116	92.3	68.7	44.5	23.9	8.66	0.77	0.00	0.00	0.00	0.00	0.00	0.00
-40	240	245	239	222	193	159	126	93.1	61.3	34.3	13.8	0.12	0.00	0.00	0.00	0.00	0.00	0.00
-35	380	388	374	342	296	243	190	143	99.6	61.6	31.3	9.13	0.00	0.00	0.00	0.00	0.00	0.00
-30	526	529	498	445	377	305	236	176	121	75.4	38.7	12.3	0.00	0.00	0.00	0.00	0.00	0.00
-25	800	790	734	642	534	425	325	238	166	106	58.8	24.4	2.78	0.00	0.00	0.00	0.00	0.00
-20	1078	1036	937	798	647	503	376	271	185	116	63.2	25.8	1.82	0.00	0.00	0.00	0.00	0.00
-15	1653	1516	1295	1053	833	640	477	341	234	149	85.2	39.1	8.86	0.00	0.00	0.00	0.00	0.00
-10	2194	1915	1556	1215	937	707	519	366	245	154	86.0	38.0	7.21	0.00	0.00	0.00	0.00	0.00
-5	2903	2473	1926	1432	1071	805	590	416	281	179	102	48.1	12.9	0.00	0.00	0.00	0.00	0.00
0	3482	2817	2083	1480	1087	810	585	407	272	170	93.1	41.4	8.46	0.00	0.00	0.00	0.00	0.00
5	3270	2750	2096	1515	1113	832	606	426	287	182	103	48.3	12.9	0.00	0.00	0.00	0.00	0.00
10	2899	2428	1854	1357	1012	756	548	383	254	159	87.8	38.4	7.10	0.00	0.00	0.00	0.00	0.00
15	2202	1944	1574	1206	921	700	515	365	248	157	88.0	39.9	8.66	0.00	0.00	0.00	0.00	0.00
20	1433	1322	1138	928	733	563	417	296	200	123	66.0	26.3	1.62	0.00	0.00	0.00	0.00	0.00
25	1030	988	887	750	609	479	363	262	181	113	61.6	25.2	2.64	0.00	0.00	0.00	0.00	0.00
30	623	622	585	516	432	347	265	193	131	79.9	40.4	12.5	0.00	0.00	0.00	0.00	0.00	0.00
35	446	453	435	393	336	275	214	157	107	65.5	32.6	9.20	0.00	0.00	0.00	0.00	0.00	0.00
40	276	280	271	249	217	178	138	99.9	65.3	36.3	14.0	0.01	0.00	0.00	0.00	0.00	0.00	0.00
45	192	197	192	179	157	130	101	73.0	47.1	25.0	8.96	0.61	0.00	0.00	0.00	0.00	0.00	0.00
50	111	113	109	101	87.6	70.9	52.8	35.2	19.4	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	68.1	69.4	67.4	62.1	53.9	43.2	31.1	19.4	11.2	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	26.1	26.0	24.0	20.7	16.2	10.8	4.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	13.0	13.1	12.3	10.7	8.60	5.98	2.93	0.12	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(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: