

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

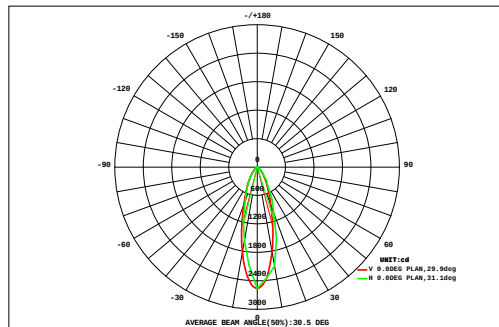
Maximum Intensity (Luminaire orientation as tested.)		2243.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	73.2V x 71.0H
	At 50% of Imax	31.1V x 29.9H
	At 90% of Imax	9.0V x 10.7H
Beam Flux	Total	999.4 lumens per klm.
	To 10% of Imax	834.9 lumens per klm.
	To 50% of Imax	341.5 lumens per klm.
	To 90% of Imax	39.1 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:121.8V I:0.2933A P:35.58W PF:0.9959 Lamp Flux:1139.3x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010074
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:32.03lm/W	
MODEL	LW-PZT-W38A-L12-DMX	Imax(cd)	2556
NOMINAL POWER(W)	36	AVAILABILITY(%)	83.5
RATED VOLTAGE(V)	122	Avai. FLUX(lm)	951.5
NOMINAL FLUX(lm)	1139.3	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1139
TEST VOLTAGE(V)	121.8	θ @50%(H,V)	30,31DEG

VERTICAL (DEG)	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	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	
	64	0.00	0.00	0.00	0.00	0.00	0.01	0.12	0.23	0.30	0.30	0.24	0.13	0.02	0.00	0.00	0.00	0.00	1.37	0.00	
	56	0.00	0.00	0.00	0.03	0.21	0.48	0.81	1.11	1.28	1.29	1.11	0.83	0.50	0.23	0.04	0.00	0.00	7.92	0.00	
	48	0.00	0.00	0.02	0.20	0.64	1.26	1.94	2.53	2.89	2.89	2.52	1.93	1.26	0.66	0.23	0.03	0.00	0.00	19.0	0.00
	40	0.00	0.00	0.10	0.55	1.32	2.38	3.63	4.79	5.51	5.51	4.78	3.59	2.33	1.31	0.58	0.13	0.00	0.00	36.5	12.2
	32	0.00	0.01	0.27	0.95	2.11	3.85	6.11	8.48	10.0	10.1	8.54	6.10	3.80	2.11	0.98	0.31	0.02	0.00	63.8	50.8
	24	0.00	0.04	0.44	1.35	2.98	5.71	9.86	15.2	19.4	19.4	15.2	9.81	5.62	2.95	1.35	0.47	0.06	0.00	110	99.7
		0.00	0.07	0.54	1.62	3.61	7.12	13.4	23.9	34.2	34.3	24.1	13.5	7.17	3.61	1.64	0.59	0.09	0.00	170	161
		0.00	0.08	0.60	1.75	3.91	7.86	15.5	29.7	44.7	44.7	29.8	15.7	8.01	3.98	1.80	0.66	0.11	0.00	209	200
		0.00	0.08	0.59	1.70	3.79	7.61	15.0	28.9	43.2	43.1	28.8	15.2	7.81	3.91	1.77	0.65	0.11	0.00	202	193
		0.00	0.06	0.49	1.47	3.25	6.29	11.5	19.1	25.7	25.8	19.4	11.9	6.60	3.37	1.57	0.58	0.09	0.00	137	128
	-24	0.00	0.03	0.37	1.13	2.42	4.51	7.63	11.2	13.8	13.9	11.5	7.94	4.77	2.56	1.20	0.43	0.05	0.00	83.5	71.9
	-32	0.00	0.01	0.21	0.76	1.68	3.03	4.77	6.53	7.67	7.77	6.79	5.02	3.21	1.81	0.86	0.28	0.02	0.00	50.4	34.6
	-40	0.00	0.00	0.08	0.42	1.02	1.82	2.71	3.54	4.07	4.15	3.71	2.89	1.94	1.13	0.53	0.13	0.00	0.00	28.1	0.79
	-48	0.00	0.00	0.01	0.15	0.48	0.93	1.43	1.85	2.06	2.08	1.89	1.53	1.04	0.58	0.22	0.02	0.00	0.00	14.3	0.00
-56	0.00	0.00	0.00	0.01	0.12	0.33	0.53	0.71	0.82	0.83	0.74	0.58	0.38	0.18	0.03	0.00	0.00	0.00	5.27	0.00	
-64	0.00	0.00	0.00	0.00	0.02	0.05	0.09	0.16	0.20	0.21	0.18	0.11	0.06	0.03	0.01	0.00	0.00	0.00	1.11	0.00	
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72	
Φ t	0.00	0.37	3.72	12.1	27.6	53.2	95.0	158	216	216	159	96.9	54.5	28.4	12.8	4.28	0.57	0.00	1139	---	
Φ a	0.00	0.00	0.00	0.00	5.61	37.8	82.3	145	202	203	146	84.0	39.1	6.49	0.00	0.00	0.00	0.00	---	952	

one-half-peak spread: U:13.7,D:17.6 , L:15.1,R:15.0

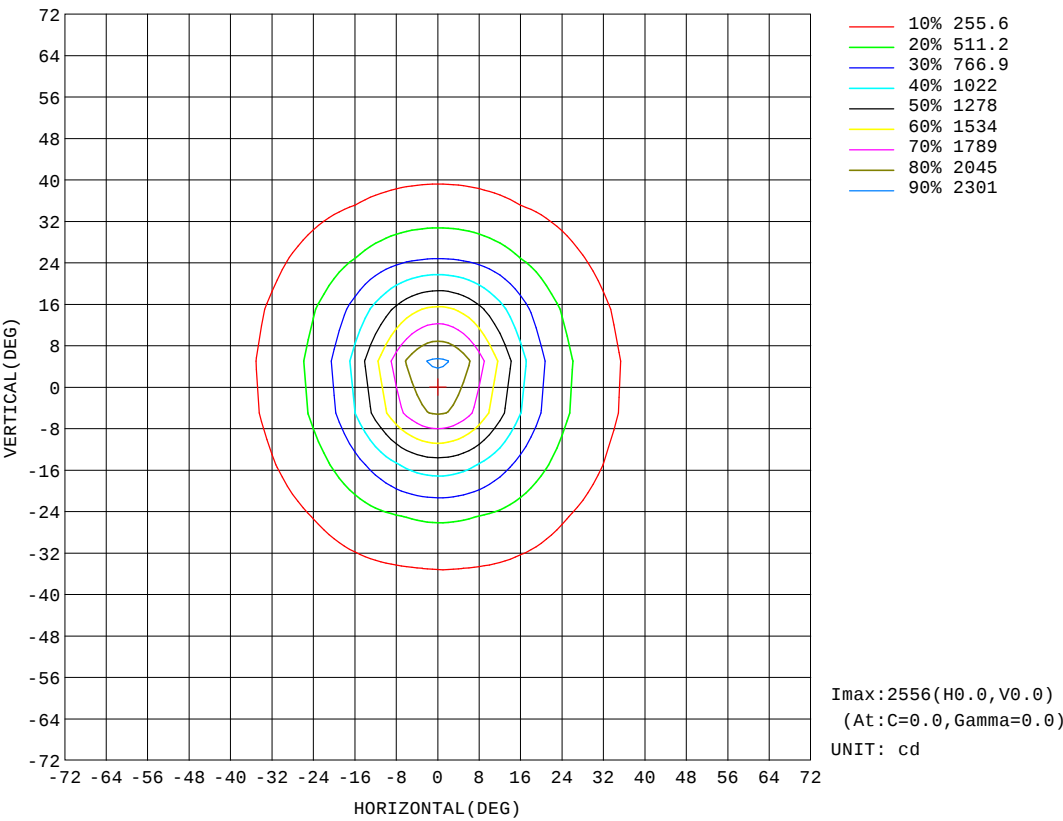
NEMA Beam Type: Type 5

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:121.8V I:0.2933A P:35.58W PF:0.9959 Lamp Flux:1139.3x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010074
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

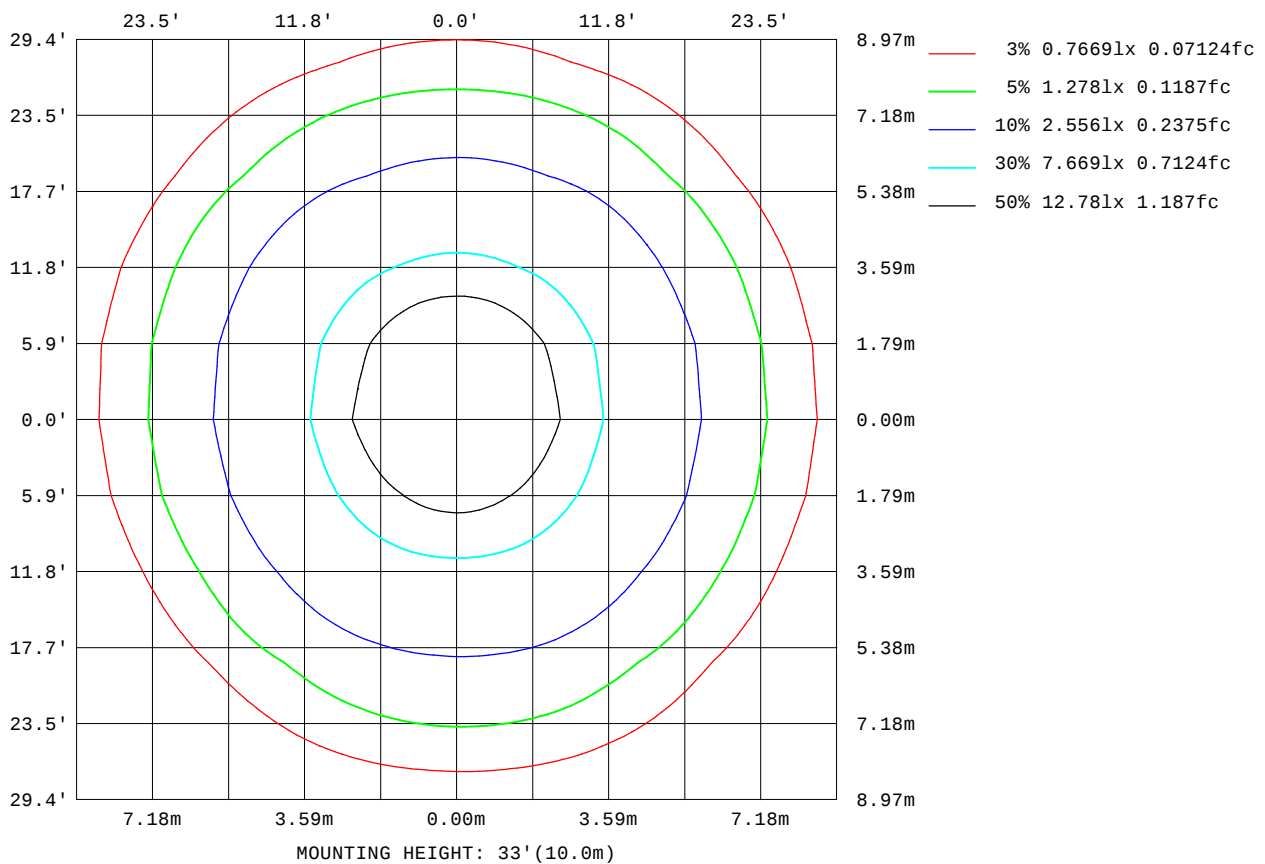


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024010074
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

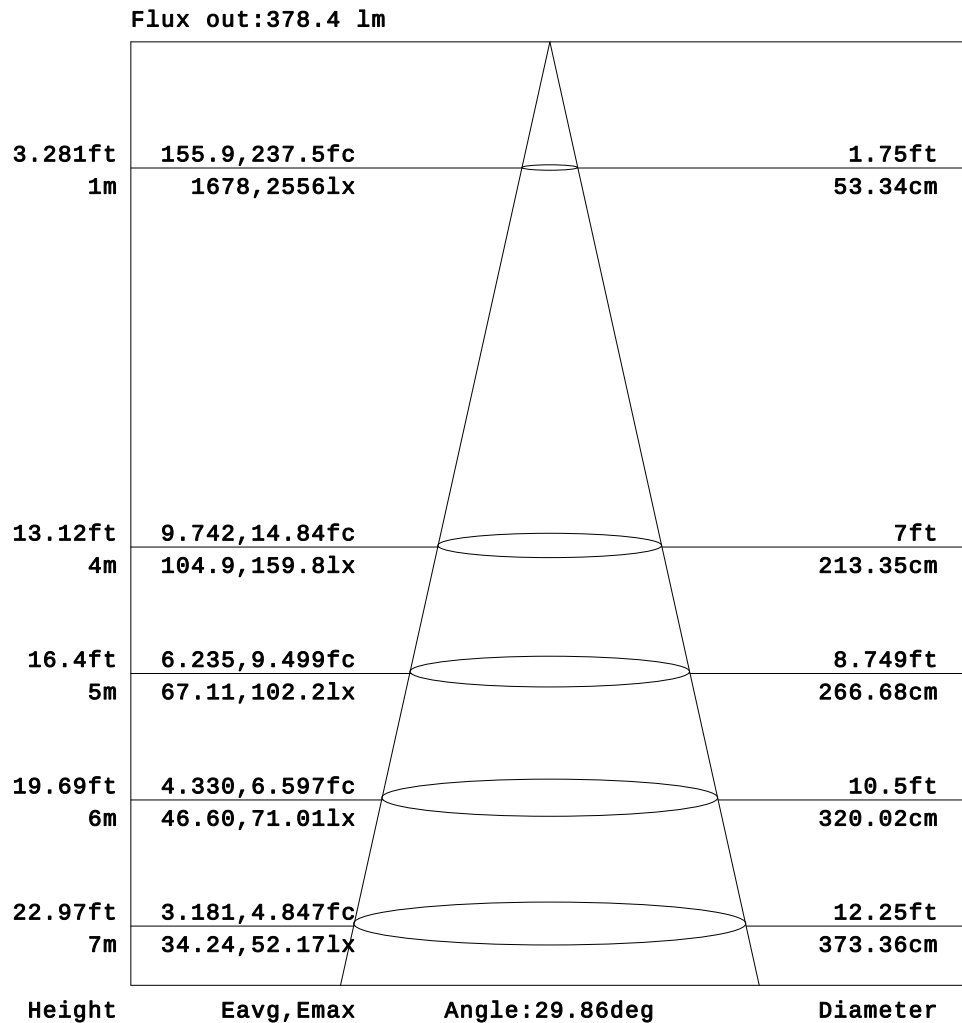


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-16

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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DIM.:	SPEC.:	SERIAL No.:2024010074
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

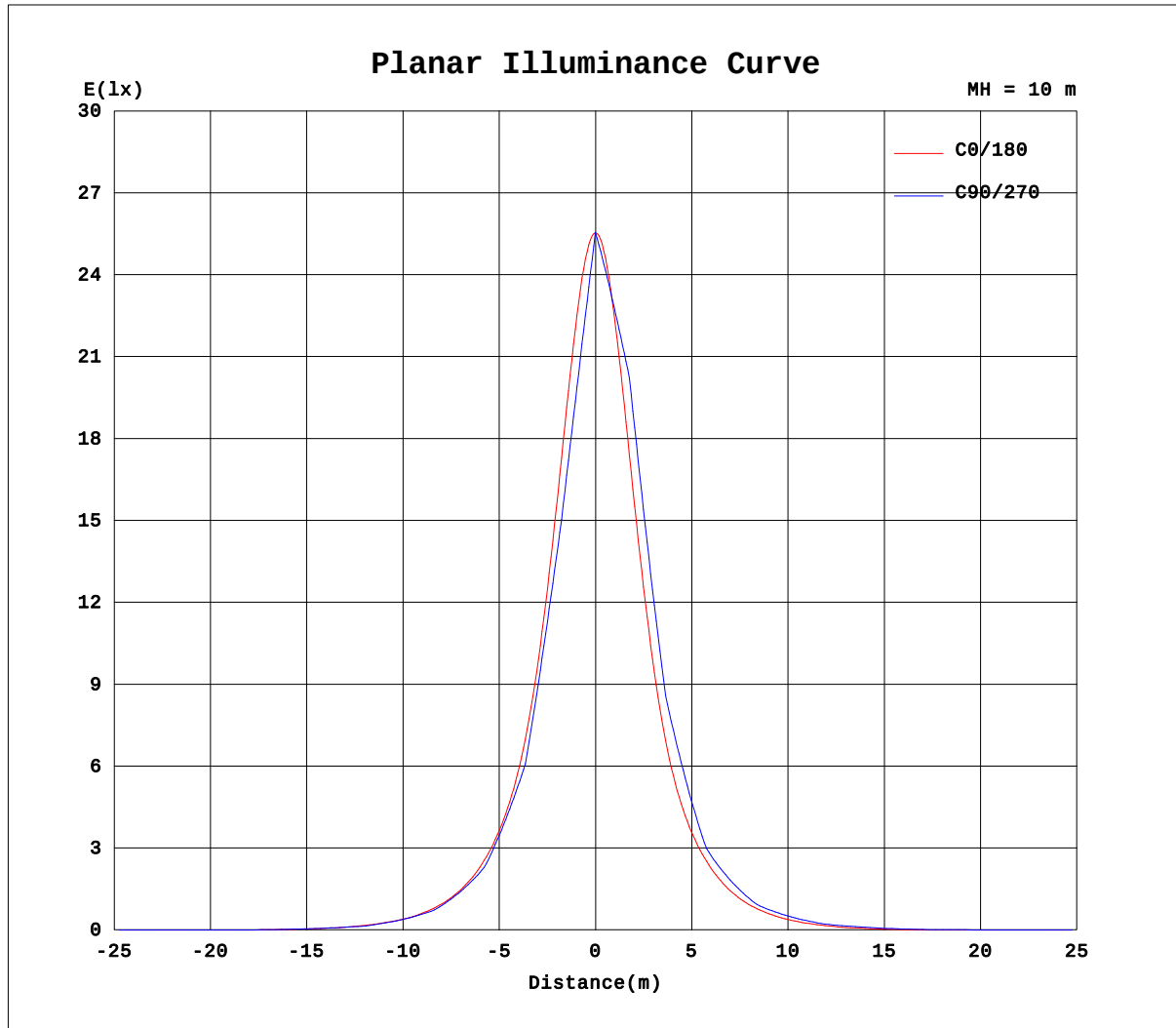


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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%
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.:2024010074
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	0.00	1.06	2.45	3.62	4.43	4.84
-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	2.12	4.91	7.24	8.85	9.67
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	7.01	11.9	16.5	21.7	26.8	30.8	33.7	34.9
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80	14.0	23.8	32.9	41.3	48.6	54.4	58.5	60.1
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.03	8.26	18.2	32.1	47.1	61.8	77.2	91.1	102	109	112
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	16.5	31.6	50.2	70.5	90.6	113	134	149	159	163
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.36	12.2	29.0	50.3	75.7	104	136	169	203	230	250	259
-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.71	20.3	41.5	68.9	101	138	181	225	272	312	342	355
-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.5	30.1	56.7	90.5	132	183	247	320	399	471	524	545
-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.3	39.8	71.9	112	163	228	313	415	527	631	707	735
-15	0.00	0.00	0.00	0.00	0.00	0.00	2.08	20.4	47.3	84.3	133	196	278	390	537	725	926	1090	1155
-10	0.00	0.00	0.00	0.00	0.00	0.00	4.16	24.5	54.8	96.7	154	228	329	466	660	923	1221	1473	1576
-5	0.00	0.00	0.00	0.00	0.00	0.00	5.54	27.0	59.0	104	164	245	358	514	749	1098	1521	1902	2066
0	0.00	0.00	0.00	0.00	0.00	0.00	6.91	29.5	63.2	111	174	262	388	562	838	1273	1820	2332	2556
5	0.00	0.00	0.00	0.00	0.00	0.00	6.05	28.2	61.3	108	171	258	378	545	802	1196	1687	2141	2337
10	0.00	0.00	0.00	0.00	0.00	0.00	5.18	26.9	59.4	105	169	253	368	529	766	1119	1554	1950	2118
15	0.00	0.00	0.00	0.00	0.00	0.00	3.31	23.2	53.3	95.6	152	227	328	463	651	909	1208	1470	1577
20	0.00	0.00	0.00	0.00	0.00	0.00	1.44	19.5	47.2	85.8	136	201	288	398	536	698	862	989	1036
25	0.00	0.00	0.00	0.00	0.00	0.00	0.72	13.7	37.0	69.5	112	165	234	317	417	528	636	717	747
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.82	26.9	53.2	87.4	129	179	236	297	358	410	445	458
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91	17.3	38.2	65.1	97.6	136	178	222	265	301	325	333
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.71	23.1	42.8	66.5	92.9	120	147	172	192	204	209	
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.86	11.5	25.8	43.1	62.4	82.5	102	120	134	143	146	
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	8.83	19.7	31.8	44.6	56.8	67.7	76.3	82.0	84.0	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	4.42	9.84	15.9	23.5	31.7	39.0	44.8	48.6	50.0	
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	2.40	6.50	10.2	13.3	15.3	16.0	
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	1.20	3.25	5.12	6.66	7.65	8.00	
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
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Operators:QC1
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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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NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010074
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	4.73	4.19	3.19	1.90	0.40	0.00	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	9.47	8.38	6.38	3.80	0.79	0.00	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	34.4	32.4	28.8	24.2	18.8	14.0	9.50	5.03	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	59.4	56.4	51.2	44.5	36.7	28.0	19.0	10.1	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	110	104	95.0	82.8	68.0	52.3	37.8	24.4	11.7	4.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	161	152	139	121	99.3	76.6	56.6	38.7	22.0	8.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-35	255	239	211	180	145	112	82.7	57.7	35.9	17.8	4.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-30	349	325	284	238	191	147	109	76.8	49.7	27.2	9.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-25	530	484	414	335	260	194	141	97.3	63.3	36.1	15.2	1.71	0.00	0.00	0.00	0.00	0.00	0.00
-20	712	643	544	432	329	242	173	118	76.8	44.9	20.6	3.41	0.00	0.00	0.00	0.00	0.00	0.00
-15	1095	938	743	558	408	293	205	139	90.3	53.3	25.7	6.19	0.00	0.00	0.00	0.00	0.00	0.00
-10	1478	1232	942	683	487	343	236	159	104	61.7	30.8	8.97	0.00	0.00	0.00	0.00	0.00	0.00
-5	1903	1522	1106	764	530	369	253	169	109	64.8	32.4	9.69	0.00	0.00	0.00	0.00	0.00	0.00
0	2329	1812	1270	846	573	395	270	180	114	67.8	33.9	10.4	0.00	0.00	0.00	0.00	0.00	0.00
5	2143	1690	1203	813	555	384	262	175	112	66.0	32.8	9.81	0.00	0.00	0.00	0.00	0.00	0.00
10	1957	1568	1136	779	537	373	254	170	109	64.1	31.6	9.21	0.00	0.00	0.00	0.00	0.00	0.00
15	1474	1217	917	656	465	328	226	152	97.4	56.7	27.0	6.50	0.00	0.00	0.00	0.00	0.00	0.00
20	992	865	699	532	392	283	199	134	85.8	49.4	22.4	3.78	0.00	0.00	0.00	0.00	0.00	0.00
25	719	639	530	414	313	230	164	111	71.1	39.8	16.7	1.89	0.00	0.00	0.00	0.00	0.00	0.00
30	447	413	361	297	233	177	129	88.8	56.4	30.3	11.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	326	302	265	221	176	134	97.3	66.2	40.6	20.0	5.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	204	191	170	145	118	91.0	66.0	43.7	24.8	9.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	143	134	119	101	82.1	62.4	43.8	27.4	13.5	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	82.1	76.5	68.1	57.7	46.1	33.8	21.7	11.1	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	48.8	45.1	39.5	32.5	24.8	16.9	10.9	5.57	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	15.5	13.7	10.9	7.39	3.52	0.00	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	7.75	6.87	5.45	3.70	1.76	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: