

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

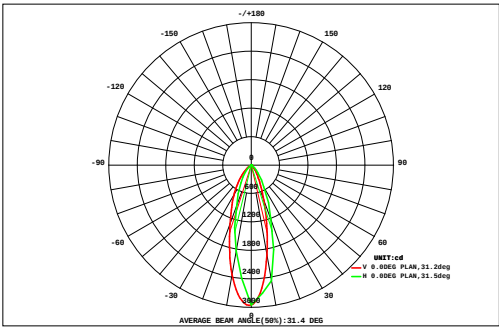
Maximum Intensity (Luminaire orientation as tested.)		2138.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	73.6V x 72.6H
	At 50% of Imax	31.7V x 31.2H
	At 90% of Imax	9.5V x 11.2H
Beam Flux	Total	999.4 lumens per klm.
	To 10% of Imax	850.6 lumens per klm.
	To 50% of Imax	350.4 lumens per klm.
	To 90% of Imax	40.9 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:2024-01-17

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:277.0V I:0.1362A P:34.08W PF:0.9035 Lamp Flux:1383.46x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010083
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:40.59lm/W	
MODEL:W-PZT-W38A-L12-DMX		Imax(cd)	2958
NOMINAL POWER(W)	34	AVAILABILITY(%)	85.1
RATED VOLTAGE(V)	278	Avai. FLUX(lm)	1178
NOMINAL FLUX(lm)	1383.46	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1383
TEST VOLTAGE(V)	277.0	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	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	
	64	0.00	0.00	0.00	0.00	0.00	0.10	0.23	0.32	0.34	0.29	0.20	0.09	0.00	0.00	0.00	0.00	0.00	1.57	0.00	
	56	0.00	0.00	0.00	0.15	0.45	0.86	1.23	1.44	1.45	1.26	0.96	0.64	0.35	0.14	0.01	0.00	0.00	8.95	0.00	
	48	0.00	0.00	0.11	0.55	1.29	2.16	2.95	3.38	3.34	2.88	2.20	1.50	0.90	0.43	0.12	0.01	0.00	0.00	21.8	0.00
	40	0.00	0.02	0.37	1.22	2.54	4.15	5.69	6.64	6.63	5.70	4.26	2.82	1.68	0.87	0.35	0.05	0.00	0.00	43.0	16.8
	32	0.00	0.09	0.70	2.01	4.12	6.89	9.89	12.2	12.6	10.9	7.95	4.90	2.73	1.38	0.60	0.16	0.00	0.00	77.1	62.9
	24	0.00	0.19	1.05	2.87	5.92	10.3	15.8	21.3	24.0	21.6	14.9	8.30	4.11	1.92	0.83	0.26	0.02	0.00	133	123
		0.00	0.26	1.29	3.49	7.27	13.0	21.1	32.5	41.6	38.7	24.6	12.2	5.42	2.39	1.01	0.33	0.03	0.00	205	196
		0.00	0.31	1.43	3.81	7.98	14.4	24.2	39.7	53.6	50.4	31.0	14.5	6.17	2.64	1.10	0.37	0.04	0.00	252	243
		0.00	0.31	1.41	3.73	7.78	14.0	23.4	38.3	51.5	48.5	29.9	14.1	6.02	2.60	1.08	0.36	0.04	0.00	243	234
		0.00	0.25	1.22	3.22	6.59	11.7	18.4	26.2	31.4	29.1	19.8	10.6	4.95	2.22	0.96	0.32	0.03	0.00	167	157
	-24	0.00	0.17	0.93	2.46	5.00	8.65	13.0	16.7	18.0	16.0	11.6	6.87	3.59	1.74	0.76	0.24	0.01	0.00	106	93.6
-32	0.00	0.08	0.61	1.72	3.45	5.72	8.26	10.0	10.2	8.85	6.61	4.25	2.43	1.24	0.54	0.15	0.00	0.00	64.2	47.9	
-40	0.00	0.02	0.31	1.02	2.08	3.32	4.61	5.37	5.33	4.59	3.49	2.40	1.48	0.78	0.32	0.06	0.00	0.00	35.2	5.70	
-48	0.00	0.00	0.09	0.45	1.04	1.70	2.32	2.60	2.54	2.22	1.76	1.27	0.80	0.40	0.12	0.01	0.00	0.00	17.3	0.00	
-56	0.00	0.00	0.00	0.09	0.34	0.65	0.88	1.01	1.01	0.90	0.71	0.49	0.28	0.11	0.01	0.00	0.00	0.00	6.48	0.00	
-64	0.00	0.00	0.00	0.02	0.05	0.12	0.20	0.26	0.27	0.24	0.16	0.09	0.04	0.02	0.00	0.00	0.00	0.00	1.46	0.00	
-72	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	
		-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72
Φ t	0.01	1.70	9.54	26.8	55.9	97.8	152	218	264	242	160	85.0	41.0	18.9	7.82	2.30	0.18	0.00	1383	---	
Φ a	0.00	0.00	0.00	4.84	39.8	84.2	138	204	249	227	146	67.9	16.8	0.00	0.00	0.00	0.00	0.00	---	1178	

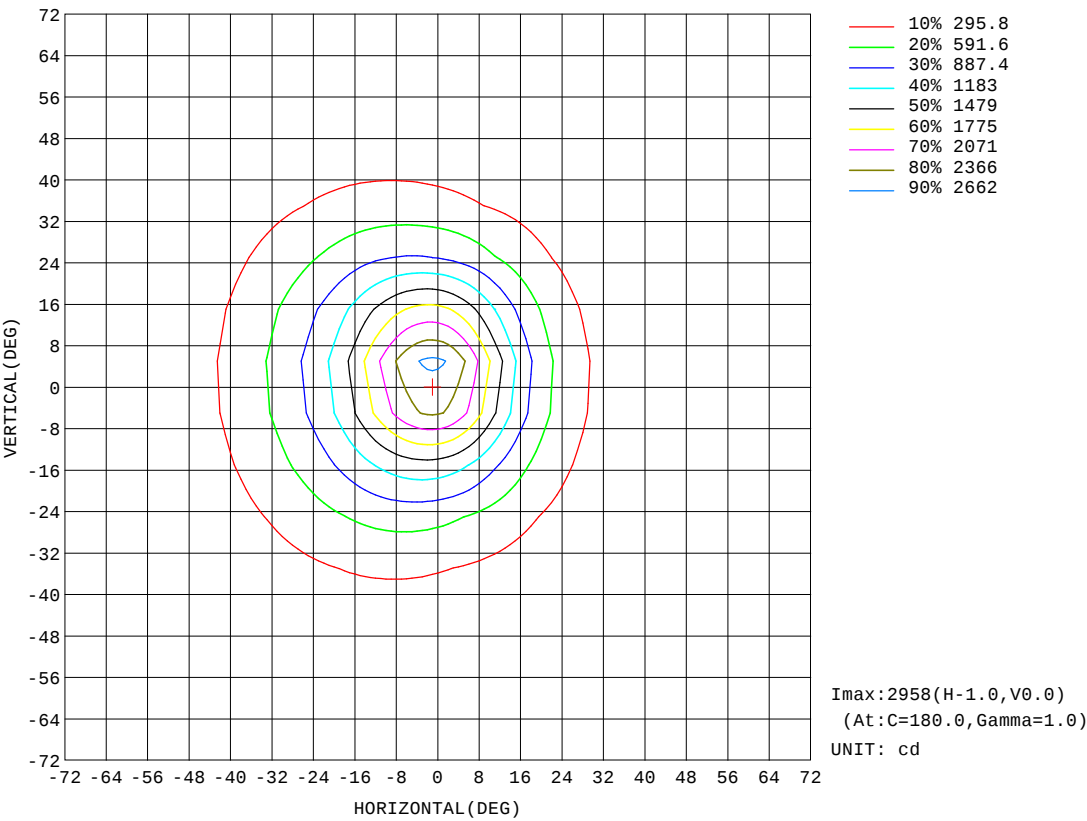
one-half-peak spread: U:14.1,D:17.9 , L:17.1,R:14.4 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-17

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:

ISOCANDELA DIAGRAM

Test:U:277.0V I:0.1362A P:34.08W PF:0.9035 Lamp Flux:1383.46x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010083
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

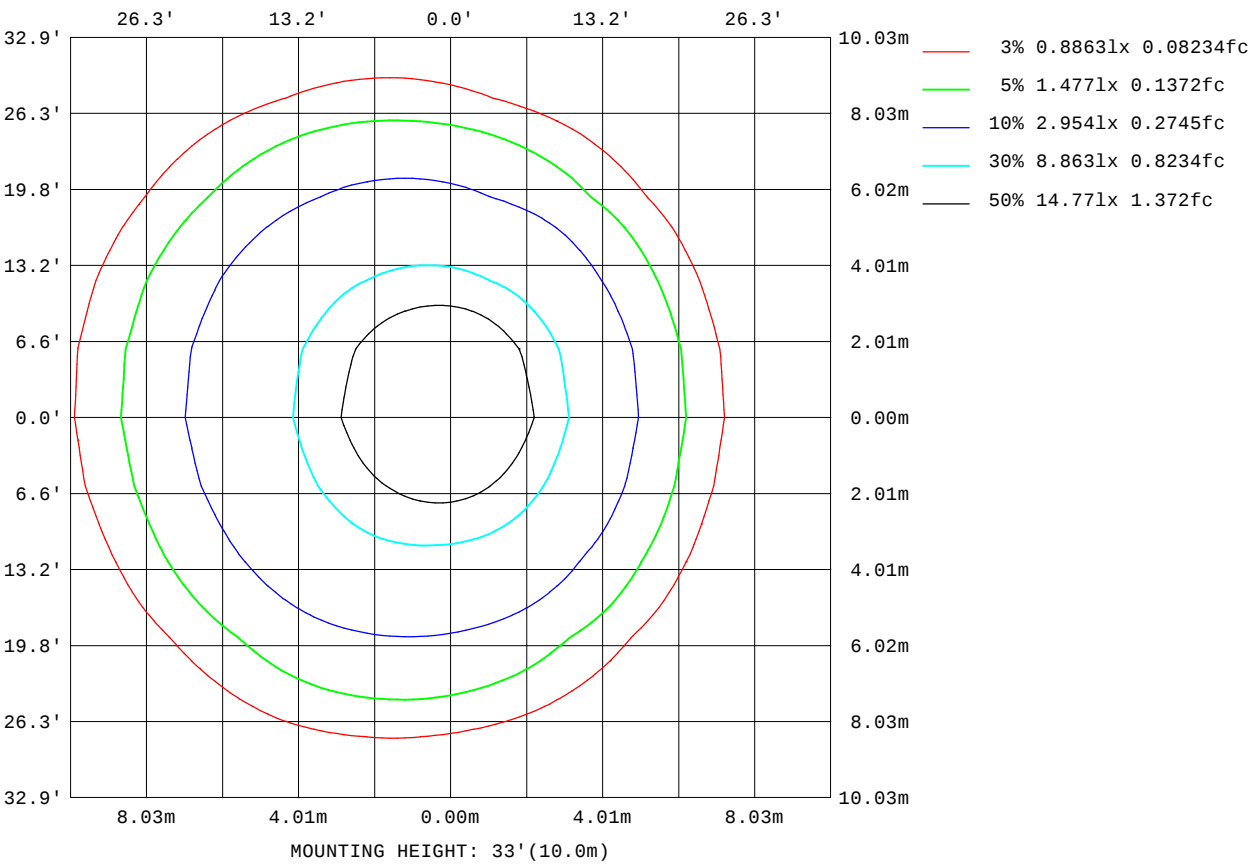


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-17

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:

ISOLUX DIAGRAM

Test:U:277.0V I:0.1362A P:34.08W PF:0.9035 Lamp Flux:1383.46x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010083
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

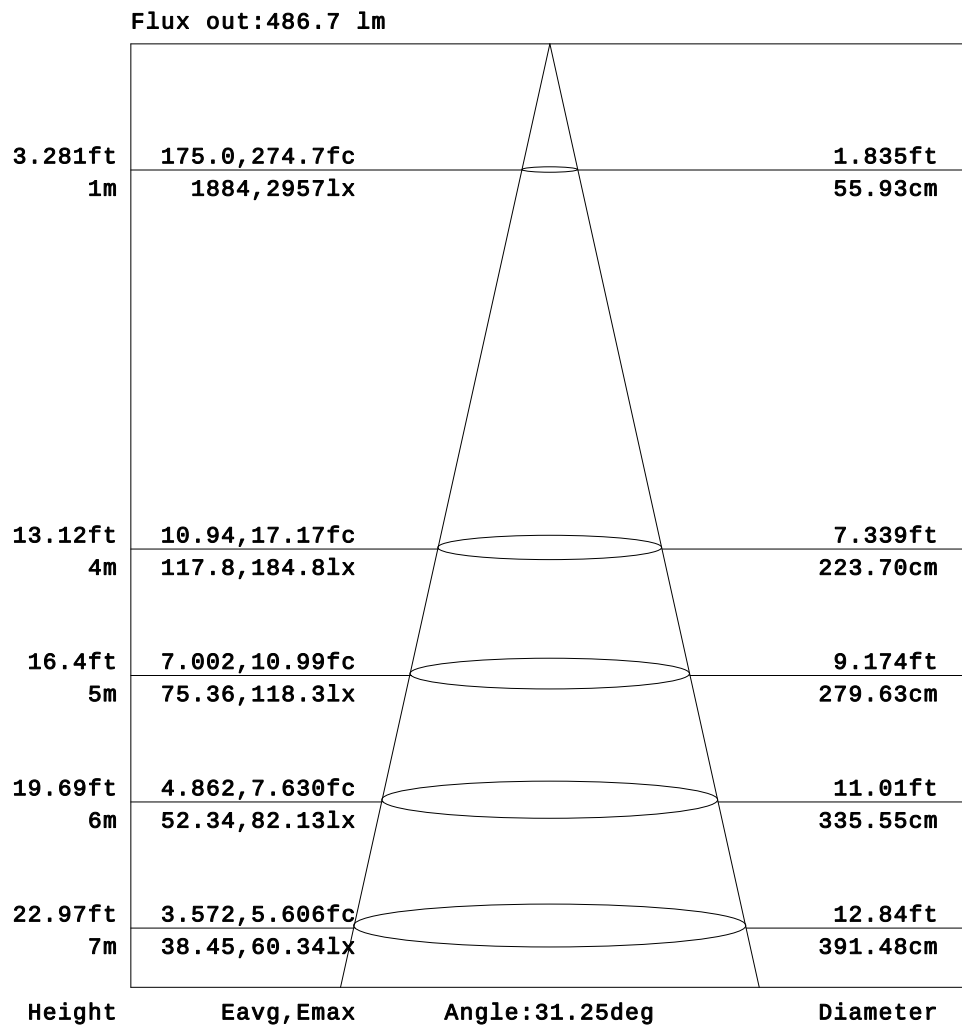


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-17

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

Test:U:277.0V I:0.1362A P:34.08W PF:0.9035 Lamp Flux:1383.46x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010083
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

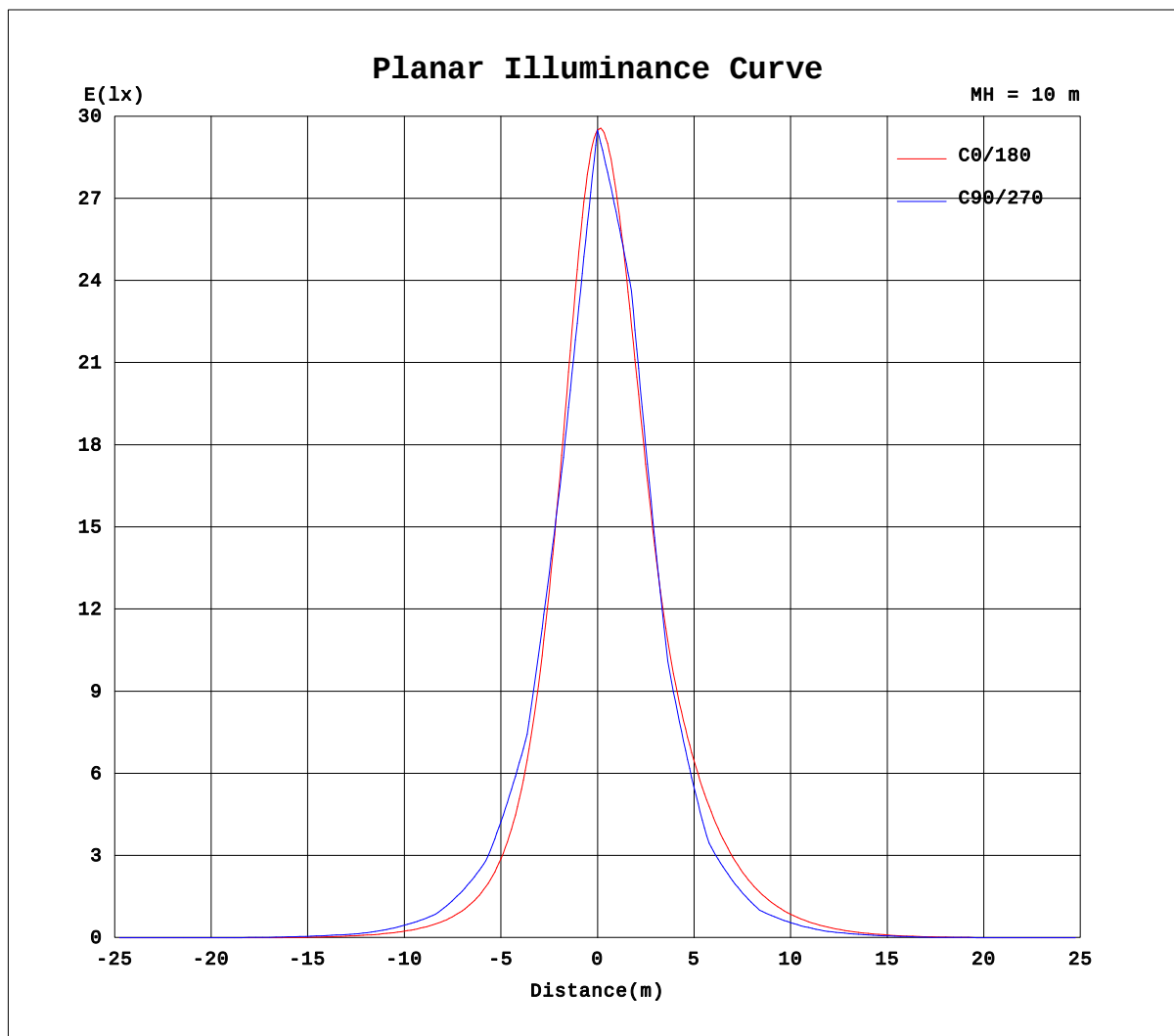


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-17

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:2024-01-17

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

Test:U:277.0V I:0.1362A P:34.08W PF:0.9035 Lamp Flux:1383.46x1 lm																	
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W									TYPE:LED			WEIGHT:					
DIM.:									SPEC.:			SERIAL No.:2024010083					
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	0.78	2.71	4.34	5.50	6.21	6.40	6.06
-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	1.56	5.43	8.68	11.0	12.4	12.8	12.1
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.23	10.3	17.5	24.9	32.4	38.3	42.1	43.9	43.5	40.9
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.46	20.6	35.1	48.2	59.4	67.9	73.1	75.3	74.1	69.7
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.54	11.2	26.5	46.3	68.8	89.8	111	128	139	142	139	130
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.09	22.4	44.5	72.1	103	131	162	188	204	209	204	191
-35	0.00	0.00	0.00	0.00	0.00	0.00	1.53	14.8	38.7	71.2	110	153	197	244	289	321	335	333	312
-30	0.00	0.00	0.00	0.00	0.00	0.00	3.06	24.5	55.1	98.0	149	204	263	327	389	437	461	461	433
-25	0.00	0.00	0.00	0.00	0.00	0.00	9.27	36.5	75.5	129	193	270	357	453	551	633	685	697	665
-20	0.00	0.00	0.00	0.00	0.00	0.00	15.5	48.5	96.0	159	237	336	450	579	712	829	909	934	896
-15	0.00	0.00	0.00	0.00	0.00	0.02	20.1	57.8	113	187	280	398	540	703	884	1080	1259	1369	1366
-10	0.00	0.00	0.00	0.00	0.00	0.04	24.7	67.1	129	216	323	461	629	826	1056	1331	1608	1805	1836
-5	0.00	0.00	0.00	0.00	0.00	0.79	27.3	72.0	138	230	348	499	685	905	1182	1558	1975	2303	2393
0	0.00	0.00	0.00	0.00	0.00	1.54	29.9	77.0	147	244	373	538	741	985	1307	1784	2341	2802	2951
5	0.00	0.00	0.00	0.00	0.00	0.79	27.8	73.7	143	238	363	523	720	956	1261	1695	2192	2594	2712
10	0.00	0.00	0.00	0.00	0.00	0.04	25.7	70.4	139	232	352	508	700	926	1214	1605	2042	2386	2473
15	0.00	0.00	0.00	0.00	0.00	0.02	21.5	62.1	124	208	316	453	618	809	1038	1318	1607	1814	1845
20	0.00	0.00	0.00	0.00	0.00	0.00	17.4	53.8	110	185	279	397	537	692	862	1032	1172	1242	1217
25	0.00	0.00	0.00	0.00	0.00	0.00	10.7	41.4	87.7	150	229	323	432	550	671	786	871	904	875
30	0.00	0.00	0.00	0.00	0.00	0.00	4.05	28.9	65.8	116	179	249	327	407	481	541	570	566	532
35	0.00	0.00	0.00	0.00	0.00	0.00	2.03	18.1	46.8	85.5	134	188	246	303	354	393	410	405	379
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18	27.8	55.4	89.4	127	165	199	227	245	251	244	226
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.59	13.9	33.3	57.4	84.3	111	136	156	169	173	169	157
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	11.2	25.4	41.5	58.0	73.6	85.6	93.0	96.0	94.2	88.1	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	5.59	12.7	20.7	30.9	41.1	49.1	54.3	56.7	55.9	52.4	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.84	8.61	12.6	15.6	17.4	17.7	16.6	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	4.31	6.30	7.79	8.69	8.86	8.32	
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	

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:27.1DEG
 Operators:QC1
 Test Date:2024-01-17

$V(\beta)$ Range:-80 - 80DEG
 $V(\beta)$ 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

Test:U:277.0V I:0.1362A P:34.08W PF:0.9035 Lamp Flux:1383.46x1 lm		
NAME: 8.01.016.0044 30°LWW-PZT-W38A-L12-DMX-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010083
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	0.00	0.00	0.00	0.00	0.00	0.00	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	5.22	4.07	2.65	1.13	0.00	0.00	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	10.4	8.14	5.29	2.25	0.00	0.00	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	36.8	31.6	25.8	19.8	14.4	10.1	6.07	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	63.2	55.2	46.3	37.4	28.7	20.2	12.1	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	117	102	84.9	68.8	53.5	38.8	25.7	14.8	6.32	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-40	172	148	123	100	78.3	57.4	39.3	24.7	12.6	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-35	278	236	191	150	114	82.7	57.2	37.2	21.4	8.70	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-30	385	325	259	200	150	108	75.0	49.7	30.1	14.8	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-25	594	496	387	286	204	142	96.3	63.6	39.2	20.4	6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-20	803	666	515	371	258	176	118	77.4	48.2	26.0	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-15	1226	982	718	490	324	210	137	88.9	55.3	30.5	12.6	0.80	0.00	0.00	0.00	0.00	0.00	0.00
-10	1648	1298	921	609	389	245	156	100	62.5	35.0	15.4	1.60	0.00	0.00	0.00	0.00	0.00	0.00
-5	2125	1611	1097	695	430	267	168	106	65.8	37.0	16.5	2.22	0.00	0.00	0.00	0.00	0.00	0.00
0	2602	1924	1273	782	471	289	181	112	69.0	39.0	17.7	2.83	0.00	0.00	0.00	0.00	0.00	0.00
5	2396	1788	1196	743	452	278	175	110	67.6	38.0	17.0	2.46	0.00	0.00	0.00	0.00	0.00	0.00
10	2191	1652	1120	704	433	268	169	107	66.1	36.9	16.4	2.08	0.00	0.00	0.00	0.00	0.00	0.00
15	1639	1264	884	576	366	233	149	95.7	59.0	32.5	13.6	1.04	0.00	0.00	0.00	0.00	0.00	0.00
20	1088	875	647	448	300	198	130	84.1	51.9	28.1	10.8	0.01	0.00	0.00	0.00	0.00	0.00	0.00
25	780	634	480	342	236	161	107	70.0	42.7	22.2	7.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	471	394	313	235	173	123	84.8	55.9	33.6	16.3	3.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	336	283	227	174	130	93.4	64.6	41.8	23.8	9.85	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	202	172	141	113	86.9	64.0	44.4	27.7	14.1	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	140	120	98.7	78.7	60.2	43.6	29.0	16.5	7.03	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	79.3	68.2	56.5	44.7	33.5	23.1	13.5	5.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	46.9	40.0	32.4	24.7	17.3	11.5	6.77	2.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	14.6	11.8	8.38	4.72	1.14	0.00	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	7.32	5.90	4.19	2.36	0.57	0.00	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:2024-01-17

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: