

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

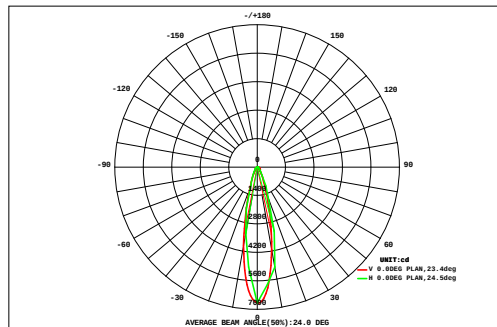
Maximum Intensity (Luminaire orientation as tested.)		3478.3 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	53.1V x 49.3H
	At 50% of Imax	24.5V x 23.4H
	At 90% of Imax	6.6V x 9.1H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	700.0 lumens per klm.
	To 50% of Imax	322.0 lumens per klm.
	To 90% of Imax	36.3 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
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:2023-12-26

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:0.3958A P:47.12W PF:0.9927 Lamp Flux:1920.77x1 lm		
NAME: 8.01.017.0030 30°LWW-WZB-W55-L12-RDM-R	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:40.77lm/W	
MODELLWW-WZB-W55-L12-RDM		Imax(cd)	6681
NOMINAL POWER(W)	48	AVAILABILITY(%)	70.2
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1348
NOMINAL FLUX(lm)	1920.77	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1921
TEST VOLTAGE(V)	119.9	θ @50%(H,V)	23,25DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.44	0.57	0.70	0.84	0.99	1.13	1.28	1.40	1.48	1.52	1.49	1.41	1.28	1.13	0.97	0.81	0.66	0.53	18.6	0.00
45	0.54	0.69	0.84	1.02	1.20	1.39	1.57	1.72	1.83	1.86	1.80	1.67	1.49	1.29	1.08	0.89	0.72	0.57	22.2	0.00
40	0.56	0.73	0.94	1.19	1.50	1.87	2.28	2.72	3.05	3.18	3.06	2.75	2.34	1.90	1.50	1.17	0.90	0.69	32.3	0.00
35	0.66	0.87	1.14	1.47	1.90	2.43	3.04	3.65	4.07	4.17	3.91	3.40	2.80	2.20	1.68	1.27	0.96	0.73	40.4	0.00
30	0.67	0.89	1.21	1.69	2.41	3.55	5.31	7.59	9.49	10.0	8.87	6.88	4.95	3.45	2.41	1.70	1.20	0.87	73.1	49.2
25	0.78	1.07	1.49	2.18	3.27	5.10	7.97	11.4	14.0	14.0	11.7	8.58	5.84	3.88	2.62	1.79	1.24	0.87	97.8	76.7
20	0.74	1.03	1.48	2.24	3.68	6.68	12.6	21.3	29.1	31.3	26.3	17.6	10.5	6.06	3.63	2.30	1.50	1.02	179	161
15	0.85	1.22	1.82	2.94	5.23	10.3	20.0	33.1	42.8	43.1	33.3	20.7	11.5	6.33	3.67	2.26	1.45	0.97	242	225
10	0.77	1.09	1.59	2.50	4.35	8.45	17.1	30.9	43.5	47.4	39.6	25.9	14.5	7.72	4.32	2.60	1.65	1.09	255	239
5	0.87	1.24	1.89	3.14	5.81	11.9	24.1	40.6	52.3	52.1	39.4	23.9	12.7	6.66	3.75	2.28	1.47	0.99	285	269
0	0.75	1.05	1.49	2.23	3.57	6.26	11.5	20.0	28.3	31.4	27.3	19.0	11.4	6.54	3.86	2.41	1.57	1.05	180	162
-5	0.82	1.14	1.63	2.43	3.84	6.38	10.3	15.0	18.2	17.7	14.3	10.1	6.69	4.36	2.85	1.91	1.30	0.91	120	99.9
-10	0.69	0.93	1.26	1.73	2.48	3.61	5.41	8.02	10.6	11.8	10.9	8.48	5.96	4.03	2.74	1.89	1.31	0.93	82.8	59.6
-15	0.71	0.95	1.26	1.69	2.24	2.78	3.23	3.34	3.16	3.06	2.97	2.96	2.73	2.31	1.85	1.40	1.04	0.77	38.5	5.24
-20	0.60	0.78	1.01	1.30	1.68	2.12	2.65	3.25	3.77	4.03	3.91	3.47	2.89	2.29	1.78	1.36	1.03	0.78	38.7	0.00
-25	0.60	0.76	0.97	1.19	1.43	1.64	1.78	1.82	1.82	1.81	1.81	1.77	1.67	1.47	1.23	1.01	0.81	0.64	24.2	0.00
-30	0.50	0.63	0.79	0.97	1.16	1.35	1.54	1.71	1.84	1.90	1.88	1.77	1.60	1.40	1.18	0.97	0.78	0.62	22.6	0.00
-35	0.48	0.60	0.73	0.86	0.99	1.08	1.16	1.21	1.23	1.23	1.20	1.15	1.07	0.99	0.88	0.75	0.62	0.50	16.7	0.00
-40	0.48	0.60	0.73	0.86	0.99	1.08	1.16	1.21	1.23	1.23	1.20	1.15	1.07	0.99	0.88	0.75	0.62	0.50	16.7	0.00
-45	0.48	0.60	0.73	0.86	0.99	1.08	1.16	1.21	1.23	1.23	1.20	1.15	1.07	0.99	0.88	0.75	0.62	0.50	16.7	0.00
-45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL(DEG) 10 15 20 25 30 35 40 45																				
Φ t	12.0	16.2	22.2	31.6	47.7	78.0	133	209	271	282	234	162	102	64.0	42.0	28.8	20.2	14.5	1768	---
Φ a	0.00	0.00	0.00	0.00	11.5	52.8	111	189	250	260	213	142	81.2	34.8	3.70	0.00	0.00	0.00	---	1348

one-half-peak spread: U:9.8,D:14.9 , L:11.4,R:12.2

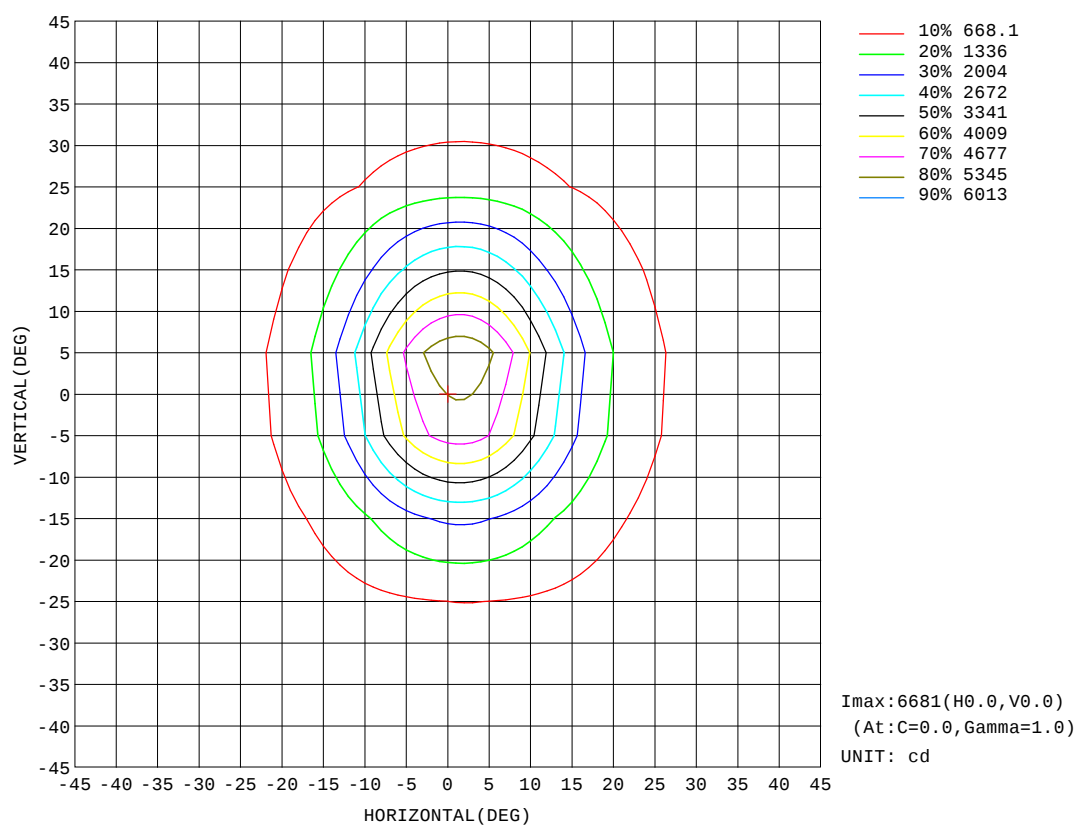
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-26

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

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NAME: 8.01.017.0030 30°LWW-WZB-W55-L12-RDM-R	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

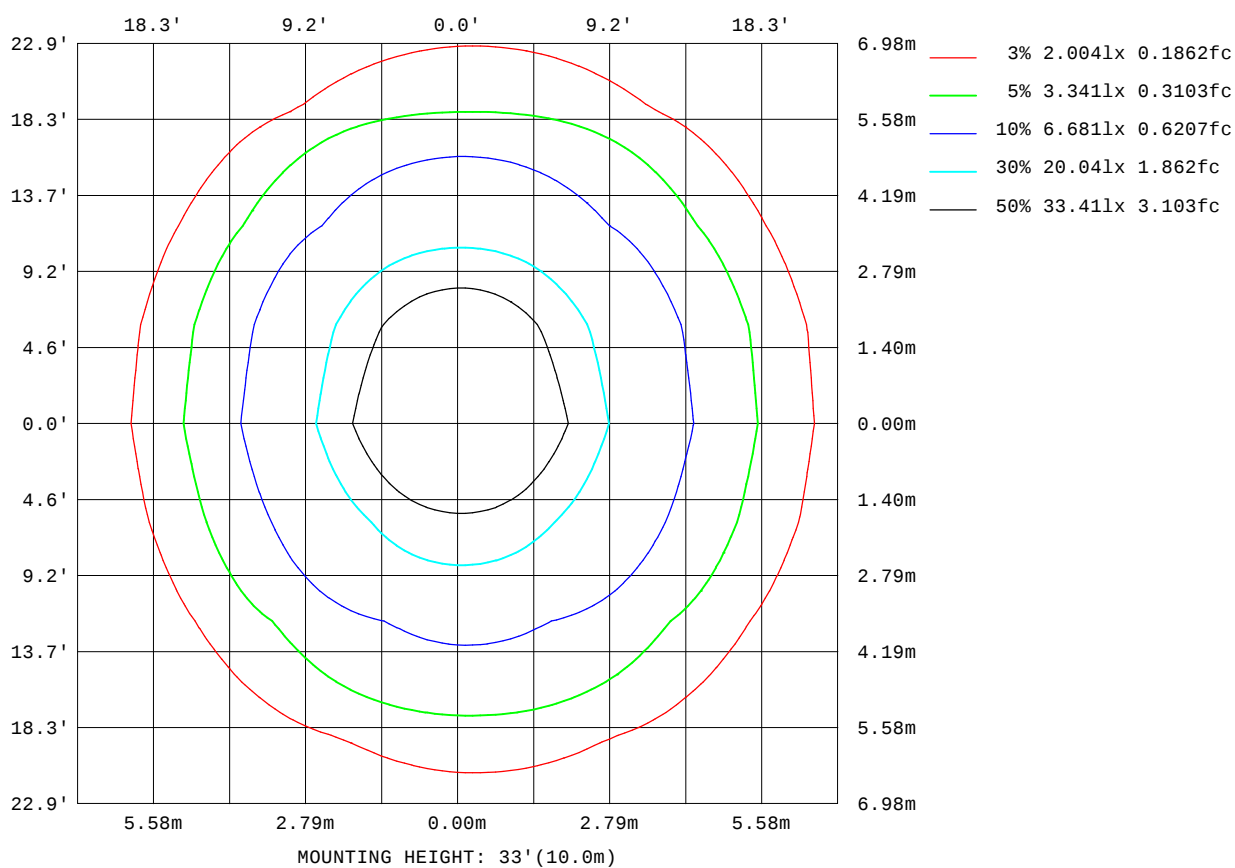


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Operators:QC1
Test Date:2023-12-26

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V(B) Interval: 5.0DEG
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Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2023120031
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

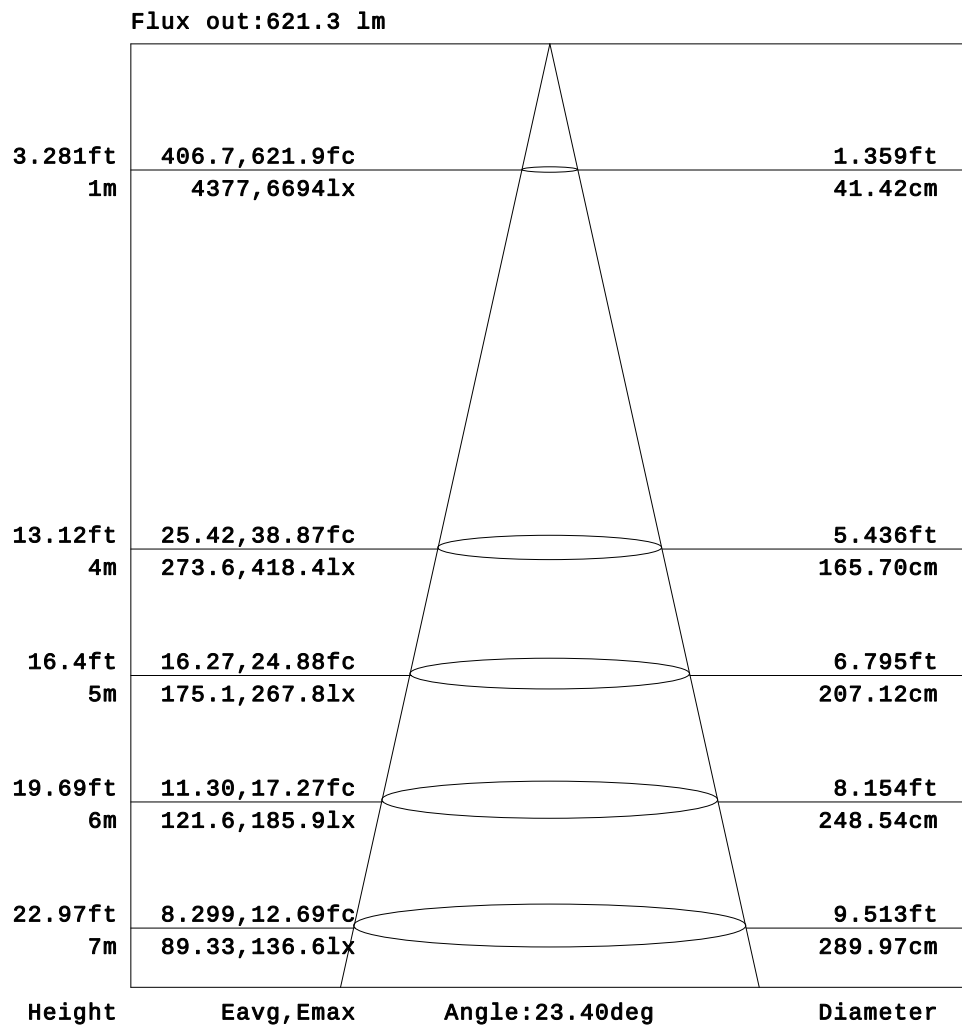


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Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-26

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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

AAI Figure

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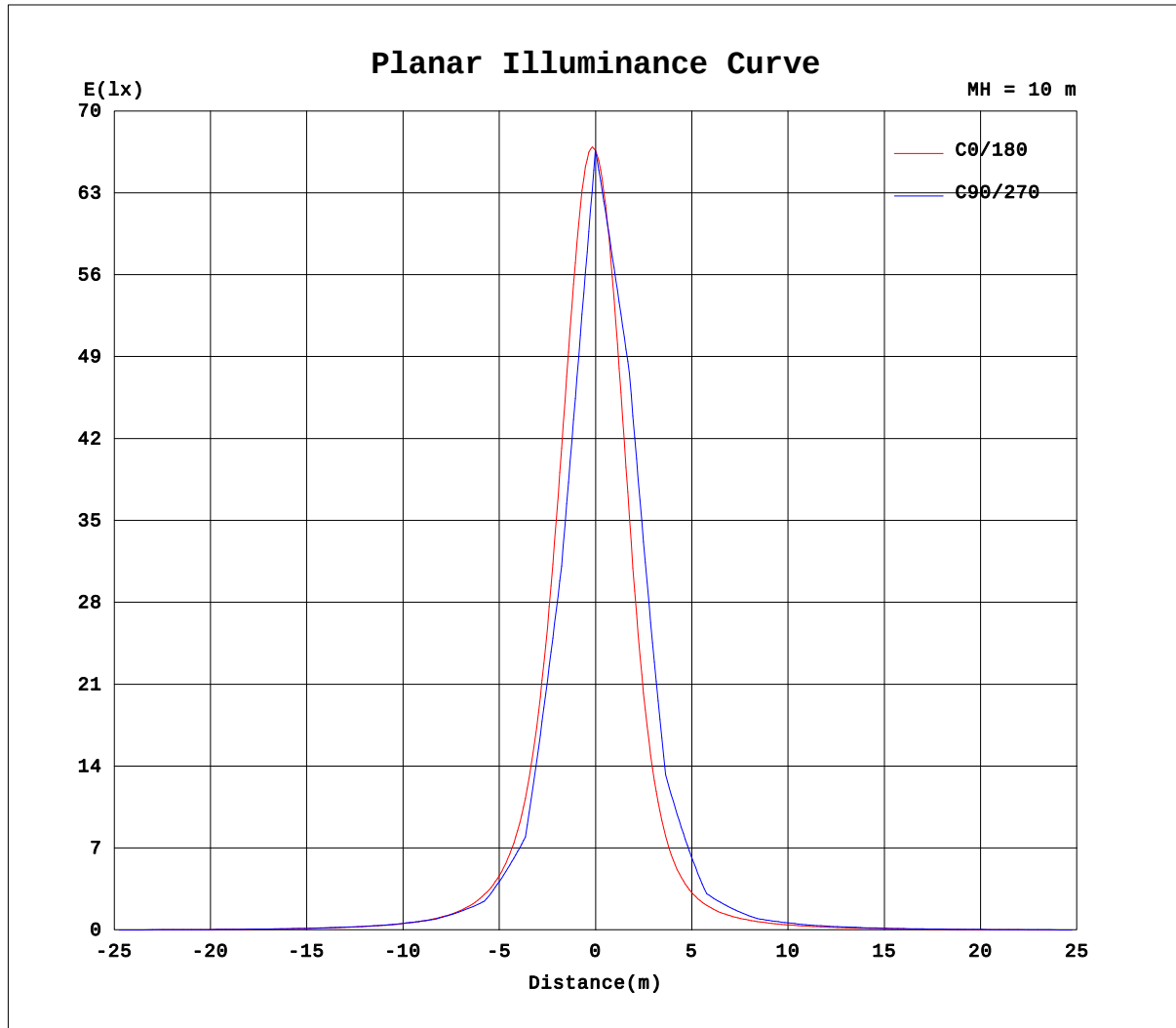


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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H(β) Interval: 1.0DEG
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Operators:QC1
Test Date:2023-12-26

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2023120031
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	0.27	2.44	4.46	6.26	7.89	10.2	11.6	12.8	13.8	14.2
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	5.68	9.71	13.0	16.9	21.0	23.8	26.1	27.8	28.4
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.70	8.83	13.8	19.1	26.3	32.2	36.8	41.8	45.4	48.5	50.8	52.0
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.48	9.58	19.9	28.5	34.9	45.8	53.1	59.0	64.1	68.4	71.9	74.4	75.6
-55	0.00	0.00	0.00	0.00	0.00	0.54	6.34	16.6	27.8	40.4	50.7	61.7	70.7	78.1	84.5	90.1	94.7	98.3	100
-50	0.00	0.00	0.00	0.00	0.00	3.29	15.2	28.6	40.8	57.0	70.5	81.8	91.4	99.8	107	114	119	123	125
-45	0.00	0.00	0.00	0.00	0.00	6.44	19.4	35.5	50.2	65.7	80.3	94.2	108	121	133	144	153	161	165
-40	0.00	0.00	0.00	0.00	1.27	14.8	29.2	49.0	65.5	80.8	95.8	112	129	147	163	177	190	200	206
-35	0.00	0.00	0.00	0.00	2.90	17.4	34.4	52.9	70.0	86.4	104	123	146	171	200	227	254	277	292
-30	0.00	0.00	0.00	0.00	9.43	26.4	46.6	63.9	80.7	98.9	119	143	173	207	247	289	328	362	382
-25	0.00	0.00	0.00	0.00	9.71	28.7	47.7	65.6	83.2	103	125	154	192	243	311	396	502	603	668
-20	0.00	0.00	0.00	1.33	17.9	38.2	56.3	74.3	92.9	115	142	179	229	306	406	542	720	879	964
-15	0.00	0.00	0.00	0.57	16.6	36.5	55.1	73.4	92.6	115	146	187	247	347	514	804	1260	1784	2097
-10	0.00	0.00	0.00	4.13	23.3	42.4	61.1	79.9	100	126	163	214	297	442	716	1222	2013	2865	3264
-5	0.00	0.00	0.00	2.09	20.4	39.6	58.4	77.2	97.5	123	158	210	296	454	778	1452	2662	4094	4930
0	0.00	0.00	0.00	6.46	25.0	44.3	63.2	82.1	104	131	170	231	343	561	1040	2074	3904	5804	6681
5	0.00	0.00	0.00	2.46	20.4	39.5	58.4	77.1	97.6	123	159	213	304	477	841	1638	3081	4791	5784
10	0.00	0.00	0.00	5.21	23.3	42.3	60.9	79.8	101	127	166	222	317	499	873	1666	2967	4350	4995
15	0.00	0.00	0.00	1.34	18.1	36.7	55.1	73.6	93.2	117	149	193	263	387	617	1077	1849	2747	3272
20	0.00	0.00	0.00	3.24	20.3	38.5	56.7	74.9	94.4	117	147	187	247	345	498	743	1098	1444	1607
25	0.00	0.00	0.00	0.40	13.9	31.2	48.9	66.5	84.5	104	129	160	204	267	360	501	702	913	1038
30	0.00	0.00	0.00	0.35	14.4	31.0	48.2	65.3	82.1	100	122	149	182	221	271	329	395	451	482
35	0.00	0.00	0.00	0.00	7.91	23.1	39.2	55.6	71.5	87.7	105	126	151	178	211	249	290	327	350
40	0.00	0.00	0.00	0.00	7.33	21.6	36.9	52.4	67.1	81.8	96.7	113	130	148	166	184	201	214	221
45	0.00	0.00	0.00	0.00	2.32	13.0	26.6	40.9	54.5	67.8	81.0	94.8	109	123	136	149	161	170	176
50	0.00	0.00	0.00	0.00	0.01	9.70	22.0	35.0	47.1	59.1	70.5	81.9	92.9	103	112	119	126	130	133
55	0.00	0.00	0.00	0.00	0.00	3.68	11.8	22.9	33.8	44.3	54.5	64.3	73.4	81.7	89.0	95.1	100	104	106
60	0.00	0.00	0.00	0.00	0.00	0.00	5.87	15.4	24.6	33.8	42.4	50.4	57.4	63.5	68.7	72.9	76.3	78.6	79.8
65	0.00	0.00	0.00	0.00	0.00	0.00	2.05	6.73	11.5	18.3	25.1	31.5	37.3	42.3	46.7	50.3	53.1	55.2	56.3
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	5.74	10.5	15.1	19.3	23.0	26.2	28.9	31.0	32.4	33.0
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.37	4.77	7.09	9.22	11.1	12.8	14.2	15.3	16.1	16.5
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	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

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
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 Operators:QC1
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$V(\beta)$ Range:-80 - 80DEG
 $V(\beta)$ Interval: 5.0DEG
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 Humidity:61%
 Test Distance:8.300m [K=1.0000]
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DIM.:	SPEC.:	SERIAL No.:2023120031
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	14.0	13.2	12.0	10.6	8.92	7.11	5.14	3.01	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	27.7	26.0	23.5	20.5	17.1	13.5	9.46	5.13	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	51.5	49.8	47.0	43.5	39.3	34.5	29.1	23.1	16.6	11.4	6.26	0.87	0.00	0.00	0.00	0.00	0.00	0.00
-60	74.8	72.6	69.2	65.0	59.7	53.5	46.4	38.6	30.1	21.0	10.3	0.42	0.00	0.00	0.00	0.00	0.00	0.00
-55	100	98.1	94.5	89.6	83.5	76.2	67.9	58.6	48.2	36.6	24.5	11.2	3.00	0.00	0.00	0.00	0.00	0.00
-50	125	122	118	112	105	95.8	85.9	74.8	61.9	47.5	33.6	17.4	3.62	0.00	0.00	0.00	0.00	0.00
-45	165	162	155	145	134	121	107	93.0	78.2	62.4	46.6	30.0	12.9	1.44	0.00	0.00	0.00	0.00
-40	205	199	188	174	158	141	123	106	88.3	70.9	53.3	35.5	16.3	0.75	0.00	0.00	0.00	0.00
-35	294	283	262	234	203	174	147	124	104	84.6	65.8	46.8	27.0	8.44	0.00	0.00	0.00	0.00
-30	381	360	325	281	236	196	162	135	111	90.9	70.8	50.4	30.2	9.92	0.00	0.00	0.00	0.00
-25	664	598	503	403	319	251	197	157	126	103	81.0	59.7	38.4	17.6	0.92	0.00	0.00	0.00
-20	930	801	641	488	372	282	214	166	131	105	82.8	60.4	38.1	17.0	0.05	0.00	0.00	0.00
-15	2019	1613	1136	759	511	357	257	191	146	116	91.7	68.8	45.8	23.6	3.48	0.00	0.00	0.00
-10	2984	2228	1457	912	576	386	268	194	147	116	91.4	67.9	44.3	21.6	1.59	0.00	0.00	0.00
-5	4666	3449	2140	1226	720	453	305	215	160	123	97.0	73.4	49.8	26.5	5.26	0.00	0.00	0.00
0	5958	4118	2386	1283	728	449	298	209	154	118	93.3	69.5	45.6	22.5	1.88	0.00	0.00	0.00
5	5464	3974	2403	1337	766	472	314	219	161	123	97.0	73.4	49.8	26.5	5.29	0.00	0.00	0.00
10	4497	3152	1905	1095	653	417	282	200	149	117	91.5	68.0	44.4	21.7	1.61	0.00	0.00	0.00
15	3111	2347	1525	936	589	391	273	197	148	117	92.1	69.1	46.0	23.8	3.61	0.00	0.00	0.00
20	1489	1184	864	605	427	309	227	171	133	106	83.5	60.9	38.7	17.3	0.13	0.00	0.00	0.00
25	1008	849	658	490	363	273	208	162	128	104	81.9	60.5	39.0	18.5	1.03	0.00	0.00	0.00
30	477	438	380	319	258	208	168	137	113	92.0	71.8	51.4	31.0	11.9	0.00	0.00	0.00	0.00
35	351	332	297	258	217	181	150	125	104	85.4	66.6	47.7	28.8	11.1	0.01	0.00	0.00	0.00
40	221	213	199	180	160	140	122	105	88.2	71.3	53.9	36.6	19.6	3.49	0.00	0.00	0.00	0.00
45	177	173	164	152	137	122	107	92.6	78.0	62.8	47.2	31.6	16.2	3.33	0.00	0.00	0.00	0.00
50	133	130	125	118	108	97.9	86.6	74.5	61.6	48.0	34.2	20.5	7.14	0.00	0.00	0.00	0.00	0.00
55	106	105	101	95.6	88.5	80.2	70.8	60.3	49.2	37.4	25.6	13.9	4.89	0.00	0.00	0.00	0.00	0.00
60	79.7	78.2	75.3	71.1	65.6	59.0	50.9	41.7	32.0	22.0	12.2	2.86	0.00	0.00	0.00	0.00	0.00	0.00
65	56.3	55.0	52.8	49.4	45.1	39.9	33.8	26.8	19.5	12.0	7.09	2.29	0.00	0.00	0.00	0.00	0.00	0.00
70	32.5	31.2	29.0	26.1	22.6	18.5	14.0	9.04	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	16.4	15.8	14.7	13.4	11.7	9.67	7.44	5.02	2.43	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:2023-12-26

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: