

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

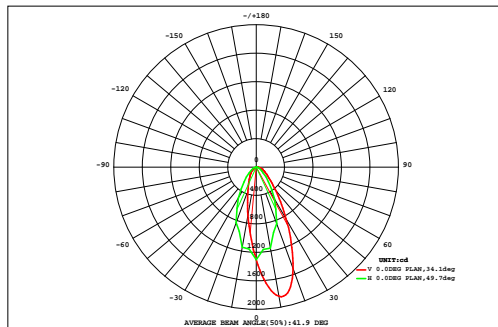
Maximum Intensity (Luminaire orientation as tested.)		1382.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I _{max} At 50% of I _{max} At 90% of I _{max}	96.3V x 86.0H 48.6V x 34.2H 16.9V x 12.1H
Beam Flux	Total To 10% of I _{max} To 50% of I _{max} To 90% of I _{max}	999.2 lumens per klm. 824.6 lumens per klm. 365.6 lumens per klm. 49.6 lumens per klm.
	Upward LOR Downward LOR	0.0 % 99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-03

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.1170A P:14.69W PF:0.5699 Lamp Flux:1341.44x1 lm		
NAME: 8.02.038.0033 20x40°LLS-WZB-W40-L6-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202408014
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:91.32lm/W	
MODEL LLS-WZB-W40-L6-DIM	Imax(cd)	1855	
NOMINAL POWER(W)	14	AVAILABILITY(%)	82.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1107
NOMINAL FLUX(lm)	1341.44	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1341
TEST VOLTAGE(V)	220.3	θ @50%(H,V)	34,49DEG

AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
72	0.00	0.00	0.00	0.01	0.11	0.35	0.53	0.69	0.84	0.94	0.96	0.94	0.88	0.77	0.64	0.50	0.36	0.23	8.74	0.00
64	0.00	0.00	0.01	0.15	0.35	0.57	0.82	1.09	1.34	1.51	1.59	1.55	1.44	1.25	1.01	0.77	0.53	0.32	14.3	0.00
56	0.00	0.00	0.09	0.30	0.58	0.91	1.31	1.74	2.14	2.46	2.63	2.56	2.32	1.94	1.52	1.10	0.73	0.41	22.7	0.00
48	0.00	0.02	0.21	0.50	0.89	1.40	2.01	2.73	3.54	4.28	4.64	4.37	3.65	2.82	2.07	1.44	0.92	0.51	36.0	16.3
40	0.00	0.08	0.35	0.76	1.33	2.04	2.97	4.23	5.88	7.56	8.24	7.33	5.56	3.88	2.62	1.73	1.08	0.58	56.2	44.1
32	0.00	0.15	0.49	1.02	1.74	2.65	4.02	6.13	9.23	12.5	13.8	11.8	8.25	5.21	3.23	2.02	1.23	0.66	84.1	74.3
24	0.01	0.21	0.61	1.22	2.02	3.12	4.91	8.09	13.1	18.9	21.3	17.7	11.7	6.83	3.91	2.30	1.35	0.72	118	109
	0.02	0.25	0.69	1.34	2.20	3.46	5.61	9.62	16.4	24.6	28.7	23.8	15.2	8.41	4.51	2.52	1.44	0.76	149	141
	0.02	0.28	0.75	1.43	2.32	3.67	6.10	10.7	18.7	28.7	33.8	27.8	17.3	9.27	4.82	2.62	1.48	0.78	171	163
	0.03	0.30	0.77	1.46	2.37	3.76	6.33	11.2	19.6	29.9	34.5	27.7	16.9	8.97	4.67	2.56	1.44	0.75	173	165
	0.02	0.24	0.67	1.33	2.22	3.53	5.73	9.85	16.8	25.3	29.5	24.3	15.3	8.40	4.47	2.48	1.42	0.75	152	145
	0.01	0.22	0.57	1.18	1.94	3.07	4.78	7.81	12.6	18.5	21.4	18.2	12.1	7.05	3.99	2.32	1.35	0.72	118	109
-24	0.00	0.14	0.47	0.98	1.62	2.54	3.85	5.91	8.94	12.4	14.2	12.4	8.80	5.52	3.36	2.07	1.25	0.67	85.1	75.4
-32	0.00	0.08	0.36	0.76	1.30	2.00	2.95	4.23	5.89	7.58	8.38	7.57	5.79	4.02	2.69	1.76	1.10	0.59	57.0	45.3
-40	0.00	0.03	0.23	0.53	0.96	1.47	2.08	2.82	3.62	4.28	4.59	4.31	3.60	2.81	2.06	1.43	0.91	0.49	36.2	18.5
-48	0.00	0.00	0.10	0.31	0.57	0.91	1.29	1.68	2.07	2.31	2.46	2.46	2.29	1.95	1.55	1.12	0.73	0.41	22.2	0.49
-56	0.00	0.00	0.01	0.14	0.33	0.54	0.79	1.03	1.31	1.51	1.61	1.59	1.49	1.30	1.06	0.80	0.54	0.31	14.3	0.00
-64	0.00	0.00	0.00	0.02	0.10	0.29	0.46	0.59	0.75	0.89	0.96	0.95	0.90	0.80	0.67	0.52	0.37	0.20	8.50	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	0.00
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)	16	24	32	40	48	56	64	72			
Φ t	0.11	2.01	6.39	13.4	22.9	36.3	56.5	90.2	143	204	233	197	133	81.2	48.8	30.1	18.2	9.85	1327	---
Φ a	0.00	0.00	0.00	0.00	0.10	15.1	41.4	77.1	131	193	222	187	122	69.9	36.1	12.6	0.00	0.00	---	1107

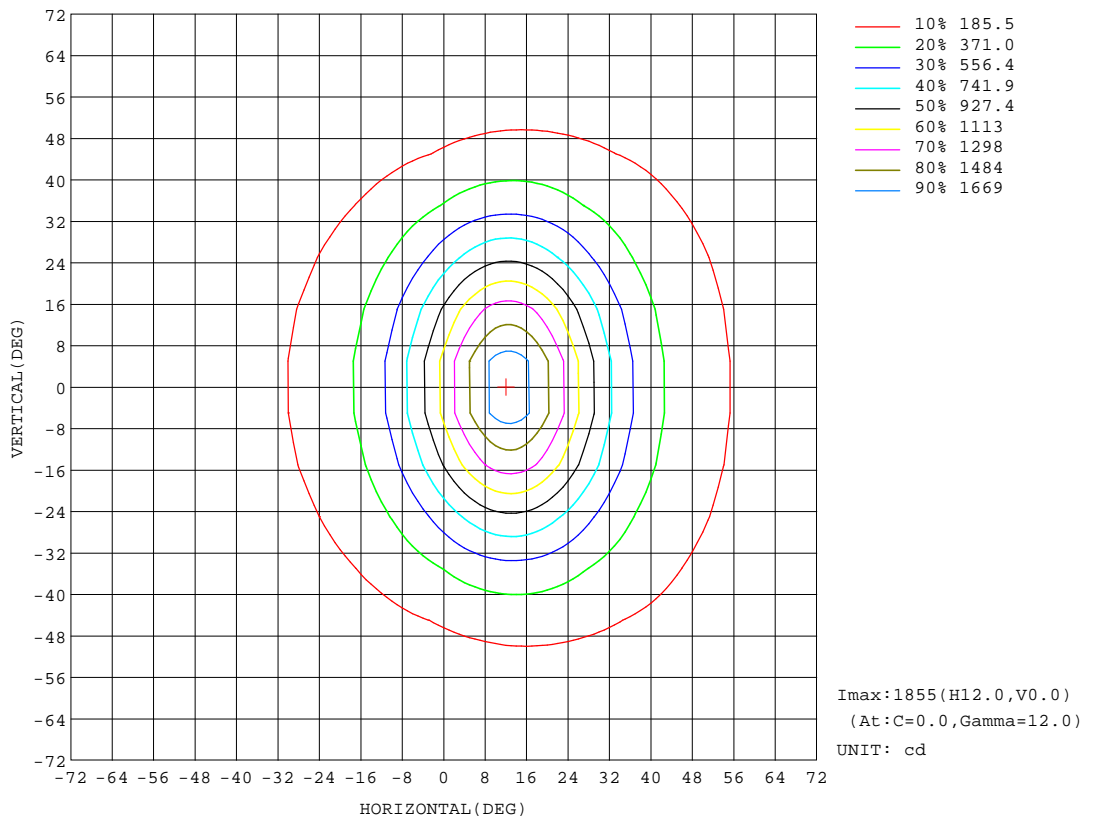
one-half-peak spread: U:24.5,D:24.5 , L:17.7,R:16.8 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-03

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:202408014
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

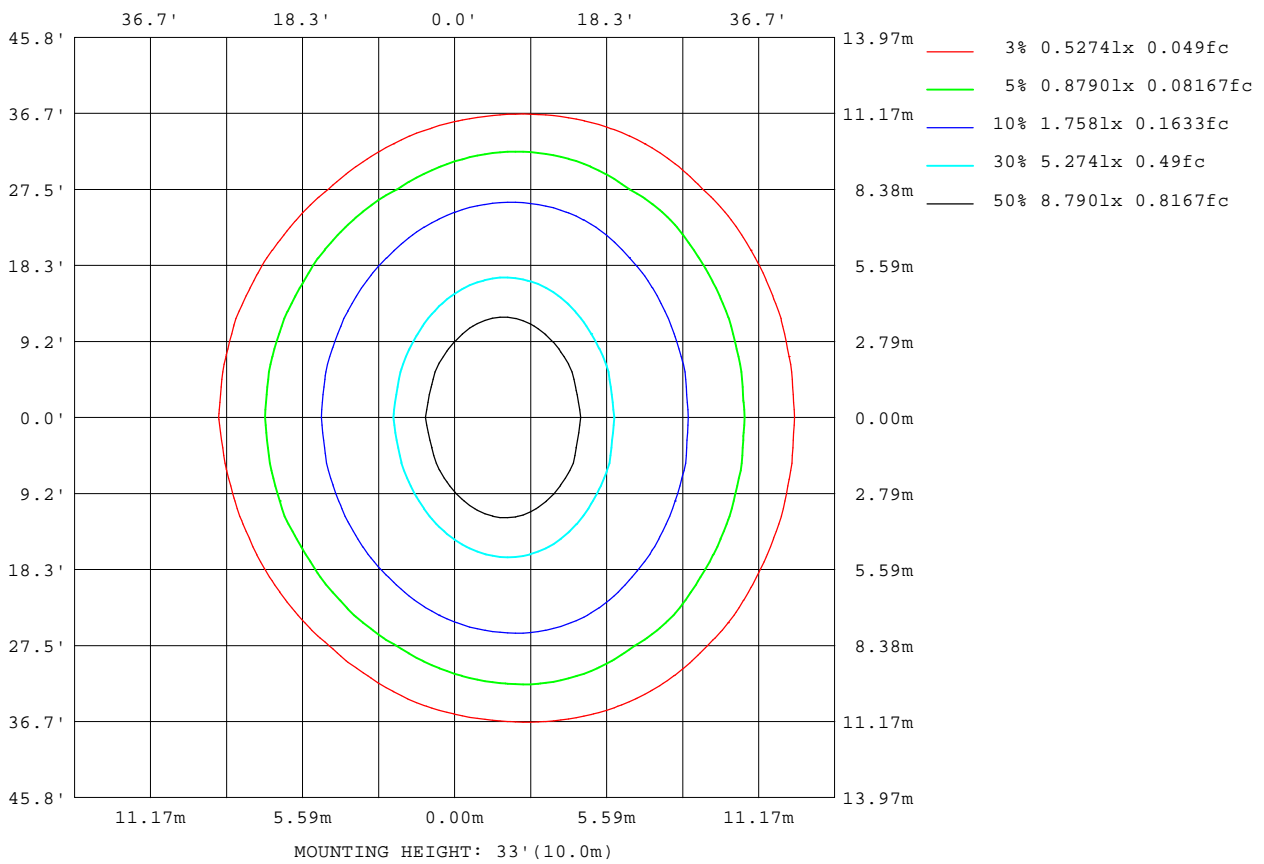


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 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:202408014
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

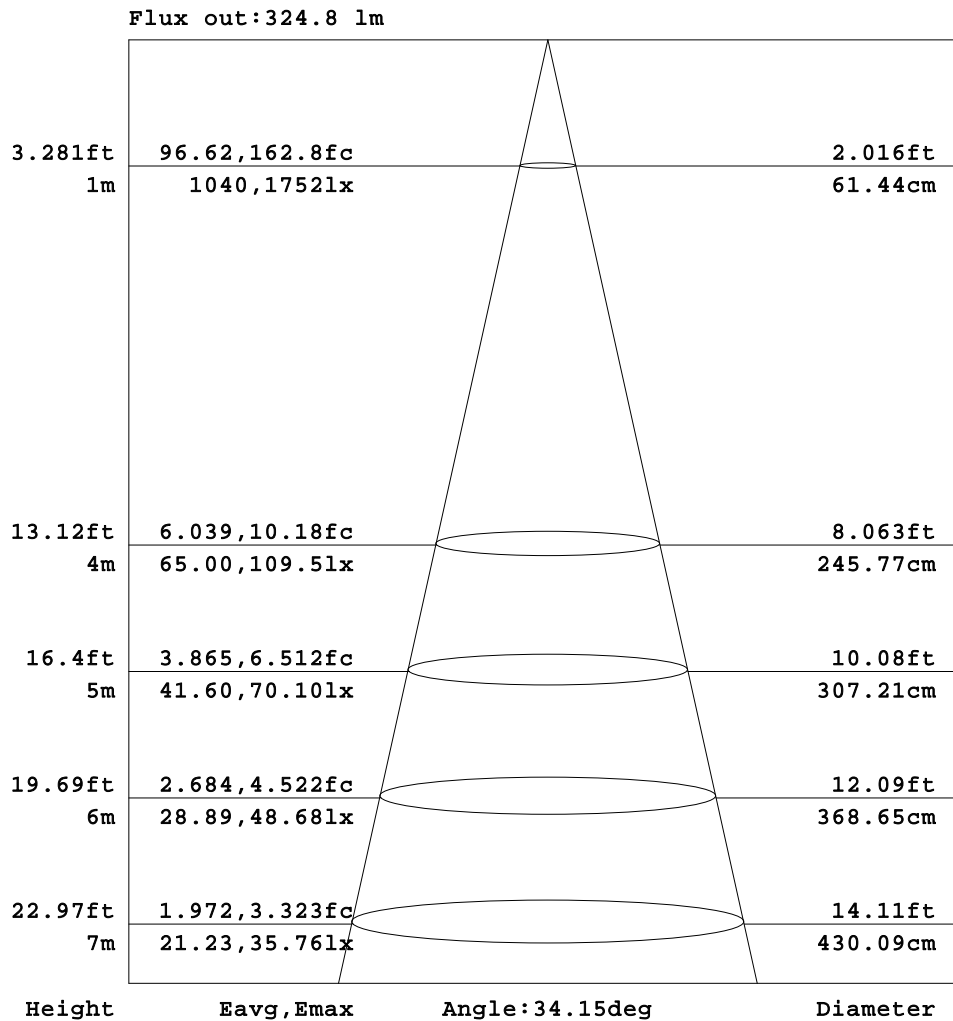


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-08-03

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.3V I:0.1170A P:14.69W PF:0.5699 Lamp Flux:1341.44x1 lm		
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DIM.:	SPEC.:	SERIAL No.:202408014
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

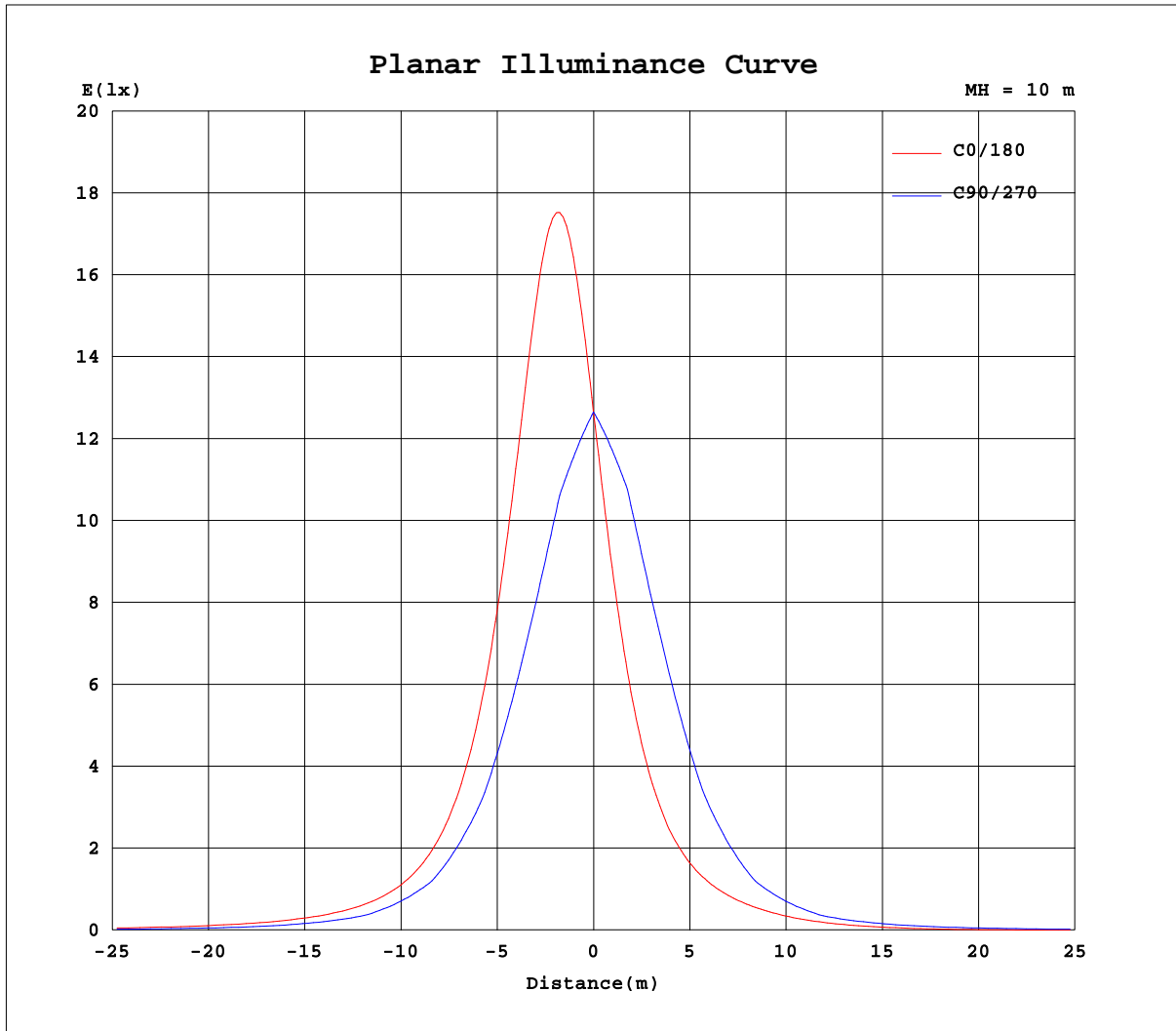


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-03

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



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Operators:QC1
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V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:202408014
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H(DEG) V(DEG)	-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	1.40	5.17	7.77
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54	5.75	8.51	10.9	12.7	14.4	17.9	22.7
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.03	12.7	18.1	22.4	25.9	27.9	32.6	38.6
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	7.60	12.5	19.9	26.3	32.2	37.5	42.0	48.2	55.9
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	9.25	16.4	23.4	29.8	37.1	44.1	51.1	57.7	67.0	74.5
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	6.50	14.9	23.3	32.1	40.7	50.4	60.4	70.4	81.2	93.4	104
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.78	14.7	24.4	33.2	44.4	55.9	67.7	81.0	94.4	109	125	136
-45	0.00	0.00	0.00	0.00	0.00	0.00	1.19	8.85	20.1	31.5	43.6	57.2	72.2	87.4	105	125	149	175	199
-40	0.00	0.00	0.00	0.00	0.00	0.00	5.05	17.2	30.1	43.0	59.5	75.4	94.4	114	137	165	198	234	272
-35	0.00	0.00	0.00	0.00	0.00	0.00	6.92	20.5	35.3	50.7	68.0	86.2	109	133	163	202	250	309	375
-30	0.00	0.00	0.00	0.00	0.00	0.27	14.6	29.5	46.4	64.7	84.3	105	131	162	203	256	323	409	505
-25	0.00	0.00	0.00	0.00	0.00	1.43	15.9	31.0	48.2	69.3	89.9	113	143	177	224	290	379	497	638
-20	0.00	0.00	0.00	0.00	0.00	6.21	23.9	38.9	57.5	82.2	104	132	168	209	268	356	477	638	830
-15	0.00	0.00	0.00	0.00	0.00	4.17	21.7	38.3	57.9	82.5	107	135	171	215	278	374	511	701	936
-10	0.00	0.00	0.00	0.00	0.00	9.21	26.1	44.2	67.9	92.2	119	151	190	243	321	439	612	851	1142
-5	0.00	0.00	0.00	0.00	0.00	7.04	25.2	44.2	66.6	91.3	118	148	186	237	314	432	605	849	1156
0	0.00	0.00	0.00	0.00	0.00	12.3	31.2	52.2	75.2	101	127	158	199	257	348	484	684	960	1301
5	0.00	0.00	0.00	0.00	0.00	7.57	26.0	46.1	68.3	93.0	119	149	186	238	317	435	610	856	1163
10	0.00	0.00	0.00	0.00	0.00	10.3	28.4	48.5	70.9	95.8	122	152	192	246	326	447	623	864	1157
15	0.00	0.00	0.00	0.00	0.00	4.55	22.2	40.7	61.5	84.9	111	138	172	217	283	380	520	714	951
20	0.00	0.00	0.00	0.00	0.00	5.97	22.9	40.8	61.0	84.1	109	136	168	211	272	362	487	651	844
25	0.00	0.00	0.00	0.00	0.00	1.27	15.4	31.4	49.5	69.9	93.1	118	145	180	228	295	386	507	651
30	0.00	0.00	0.00	0.00	0.00	0.52	14.1	28.8	45.7	64.7	86.5	110	135	166	207	260	329	417	515
35	0.00	0.00	0.00	0.00	0.00	0.00	7.13	20.3	34.4	50.2	68.4	88.5	110	134	165	204	252	312	380
40	0.00	0.00	0.00	0.00	0.00	0.00	5.48	17.2	29.2	42.7	58.1	75.6	94.4	115	138	165	197	234	272
45	0.00	0.00	0.00	0.00	0.00	0.00	1.49	9.04	19.9	31.0	43.1	56.7	71.8	87.7	106	126	148	173	198
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.32	15.0	24.0	33.2	43.7	55.4	67.7	81.0	94.9	108	122	134
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	6.60	15.2	23.6	32.1	41.2	50.9	61.1	71.8	82.6	93.2	102
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	9.93	17.3	24.1	30.9	38.1	45.3	53.1	61.1	68.6	74.3
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.09	7.93	13.8	21.6	28.2	33.8	39.4	45.3	51.5	55.9
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.82	15.1	20.6	24.5	28.0	32.0	36.5	39.3
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39	6.83	9.83	11.9	13.6	15.9	19.3	22.6
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	1.07	3.39	7.26
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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DIM.:	SPEC.:	SERIAL No.:202408014
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	12.1	16.6	20.5	22.9	23.9	23.9	22.9	21.6	20.2	19.1	17.8	16.0	10.4	4.83	0.02	0.00	0.00	0.00
-75	25.7	29.8	32.3	34.1	35.0	34.9	33.9	32.4	30.8	29.2	27.4	25.3	21.2	12.3	5.97	2.45	0.22	0.00
-70	40.9	43.9	44.8	45.8	46.1	45.7	44.4	42.6	40.8	38.6	36.2	33.4	30.0	16.9	10.5	3.92	0.15	0.00
-65	59.4	63.4	65.4	66.3	66.5	65.7	63.8	61.0	57.8	54.0	49.6	44.7	39.6	28.4	16.2	8.35	1.75	0.00
-60	79.2	84.0	86.4	87.0	86.9	85.2	82.2	78.2	73.4	67.6	61.1	54.1	46.9	35.2	17.9	10.5	1.30	0.00
-55	112	119	123	124	122	118	112	105	96.6	87.7	78.2	68.2	58.2	46.6	28.6	14.1	4.47	0.00
-50	147	155	160	160	156	149	139	128	116	104	91.3	78.3	65.4	52.3	32.4	13.7	4.14	0.00
-45	223	240	248	242	226	205	184	162	143	125	109	92.7	77.1	62.0	43.0	20.8	5.86	0.00
-40	306	332	335	319	288	253	219	189	161	139	119	101	82.7	65.3	45.0	20.1	3.60	0.00
-35	440	486	495	464	408	343	283	232	192	161	136	115	94.4	74.8	55.3	30.7	6.09	0.00
-30	595	651	648	590	501	407	323	258	209	173	144	120	98.1	76.8	56.9	30.4	2.18	0.00
-25	780	878	888	807	673	531	408	312	244	196	160	132	108	85.1	63.5	40.7	10.5	0.00
-20	1014	1125	1109	975	787	601	449	336	257	203	164	134	109	84.7	62.0	41.1	6.66	0.00
-15	1180	1352	1366	1215	979	738	540	393	291	224	178	145	118	92.5	68.6	46.7	20.4	0.00
-10	1433	1614	1586	1368	1071	788	563	404	293	224	177	144	116	90.6	66.2	43.8	20.6	0.00
-5	1479	1707	1716	1502	1184	872	621	440	318	239	188	151	122	95.7	70.9	47.9	25.8	0.02
0	1640	1843	1790	1517	1167	845	596	421	305	231	182	145	117	90.8	66.0	43.2	20.6	0.00
5	1485	1708	1711	1493	1176	867	618	439	317	239	188	151	122	95.7	70.9	47.9	25.7	0.28
10	1443	1613	1573	1349	1055	777	557	401	292	223	177	144	116	90.5	66.2	43.8	21.4	0.00
15	1192	1354	1356	1197	962	726	532	389	289	223	178	145	118	92.5	68.8	46.8	25.3	0.50
20	1025	1125	1096	957	770	589	441	332	255	202	163	134	109	84.8	62.3	41.3	20.0	0.00
25	790	881	880	792	658	519	400	308	242	195	160	132	108	85.2	63.7	43.7	23.5	0.45
30	603	652	641	579	489	398	317	254	207	172	144	120	98.1	76.8	57.0	38.2	18.4	0.00
35	444	485	488	454	396	333	276	227	189	160	136	114	94.2	74.8	56.6	39.2	20.9	0.22
40	306	326	326	308	278	245	212	183	159	138	119	101	82.5	65.3	49.1	33.2	15.7	0.00
45	221	237	242	235	219	199	178	158	140	123	108	92.2	76.8	61.9	47.8	33.5	17.7	0.01
50	144	152	157	156	152	145	136	125	114	102	90.2	77.7	65.2	52.9	40.8	27.9	13.0	0.00
55	110	117	120	121	119	115	109	102	94.1	85.8	76.9	67.5	57.9	48.1	38.0	27.0	14.1	0.00
60	79.3	83.2	84.4	84.9	84.5	82.6	79.5	75.7	70.9	65.7	60.0	53.6	46.7	39.3	31.0	21.1	9.45	0.00
65	60.2	63.4	64.7	65.4	65.4	64.2	62.0	59.2	55.9	52.3	48.4	44.1	39.3	33.8	27.4	19.6	9.80	0.00
70	42.9	44.3	45.3	46.0	45.9	45.0	43.4	41.5	39.5	37.4	35.2	32.8	29.8	26.0	21.0	14.6	4.42	0.00
75	26.9	30.6	33.2	34.8	34.8	33.3	31.5	29.8	28.1	26.5	25.1	23.5	21.3	18.7	15.6	10.7	3.79	0.00
80	12.8	18.0	22.0	24.0	23.3	20.9	18.9	17.3	16.0	15.0	14.4	13.4	11.9	10.4	8.89	3.72	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:28.0DEG
Operators:QC1
Test Date:2024-08-03

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: