

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

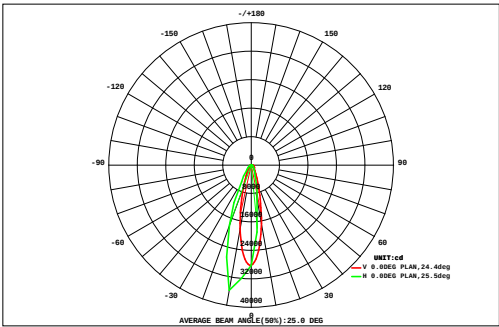
Maximum Intensity (Luminaire orientation as tested.)		3024.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	55.4V x 51.8H
	At 50% of Imax	25.5V x 23.8H
	At 90% of Imax	7.4V x 9.1H
Beam Flux	Total	999.1 lumens per klm.
	To 10% of Imax	663.1 lumens per klm.
	To 50% of Imax	298.1 lumens per klm.
	To 90% of Imax	36.4 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:28.0DEG
Operators:QC1
Test Date:2024-08-29

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.4V I:0.7138A P:150.6W PF:0.9571 Lamp Flux:11810x1 lm		
NAME: 8.03.005.0182 30° SP-F310B-52P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080129
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:78.43lm/W	
MODEL	SP-F310B-52P-RDM	Imax(cd)	35723
NOMINAL POWER(W)	150	AVAILABILITY(%)	66.2
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	7818
NOMINAL FLUX(lm)	11810	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	11810
TEST VOLTAGE(V)	220.4	θ @50%(H,V)	24,26DEG

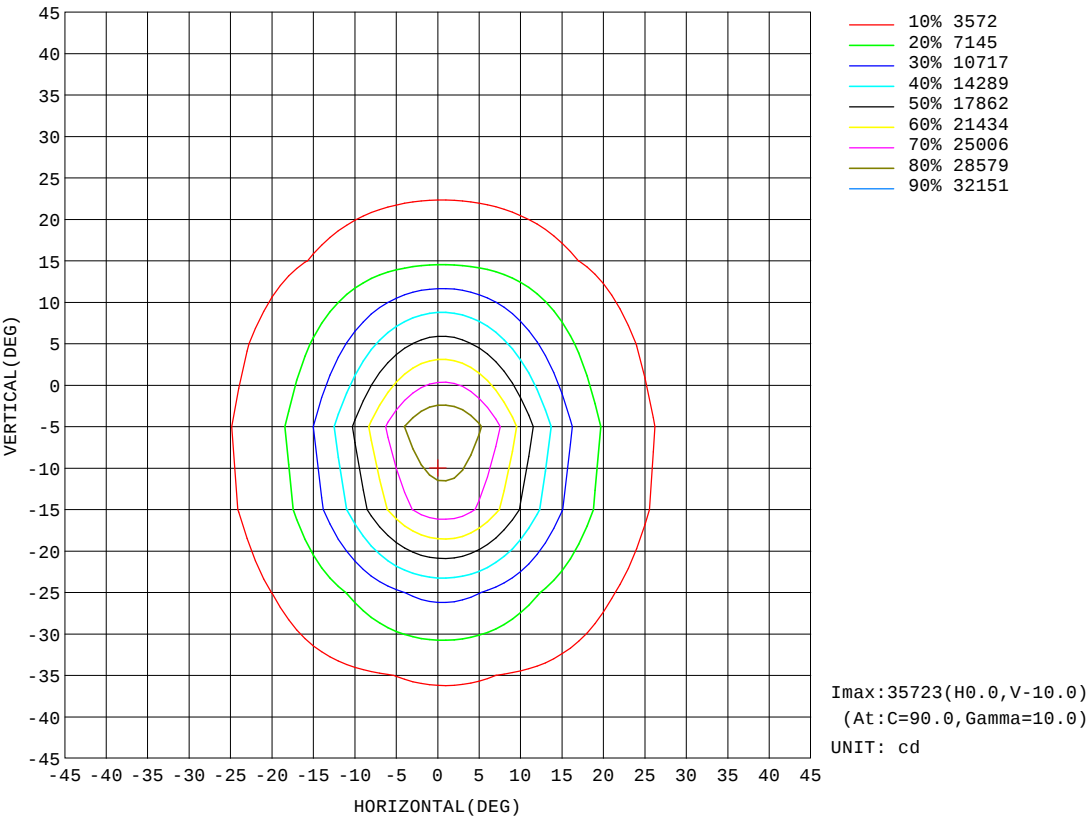
AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
45	2.93	3.61	4.33	5.08	5.78	6.36	6.82	7.14	7.31	7.33	7.20	6.91	6.48	5.92	5.25	4.51	3.77	3.08	99.8	0.00
40	3.26	3.99	4.77	5.57	6.30	6.87	7.34	7.66	7.81	7.79	7.60	7.24	6.72	6.08	5.35	4.55	3.78	3.06	106	0.00
35	3.68	4.62	5.73	6.92	8.11	9.14	9.99	10.7	11.1	11.2	10.8	10.2	9.36	8.34	7.19	5.99	4.87	3.90	142	0.00
30	4.36	5.51	6.93	8.40	9.89	11.1	12.2	13.1	13.6	13.5	13.0	12.0	10.9	9.51	8.03	6.56	5.24	4.17	168	0.00
25	4.55	5.93	7.74	9.78	12.1	14.8	17.6	20.1	21.8	21.9	20.6	18.2	15.4	12.8	10.3	8.20	6.34	4.87	233	0.00
20	5.34	7.12	9.44	12.1	15.2	18.9	22.9	26.4	28.3	28.0	25.5	21.9	17.9	14.3	11.3	8.72	6.59	5.00	285	55.5
15	5.28	7.13	9.75	13.4	18.7	26.6	37.6	50.1	59.8	61.1	53.2	41.0	29.6	20.8	14.7	10.7	7.87	5.79	473	346
10	6.12	8.46	11.8	16.9	25.0	37.2	54.2	72.8	85.1	83.2	68.5	49.9	34.0	22.7	15.4	10.9	7.88	5.75	616	503
5	5.84	8.12	11.6	17.2	27.6	47.4	82.1	129	170	175	141	93.8	55.5	32.4	20.0	13.2	9.13	6.48	1046	948
0	6.71	9.56	14.1	22.1	38.3	70.3	125	195	244	234	174	107	58.7	32.6	19.6	12.8	8.69	6.16	1380	1288
-5	5.98	8.41	12.2	18.7	31.2	57.2	106	176	240	255	206	133	73.9	39.8	22.9	14.4	9.72	6.80	1418	1326
-10	6.66	9.54	14.3	22.8	40.1	76.8	141	223	280	273	201	121	64.1	34.3	19.9	12.8	8.80	6.22	1555	1464
-15	5.75	7.96	11.3	16.5	25.6	42.7	73.1	116	158	170	142	96.6	57.7	33.5	20.4	13.4	9.21	6.54	1007	905
-20	6.19	8.59	12.1	17.6	27.2	42.6	64.4	89.0	103	95.5	73.5	50.6	33.9	22.6	15.5	11.0	7.85	5.71	687	576
-25	5.15	6.92	9.37	12.7	17.5	24.8	35.2	48.6	61.2	65.6	58.4	44.7	31.5	21.7	15.2	11.1	8.02	5.86	484	354
-30	5.26	7.00	9.31	12.1	15.3	18.6	20.7	20.5	18.8	17.7	17.6	17.6	16.2	13.6	11.1	8.76	6.64	5.01	242	44.4
-35	4.41	5.69	7.36	9.35	11.7	14.3	17.2	20.1	22.3	23.1	21.9	19.3	16.2	13.3	10.6	8.38	6.45	4.94	237	8.87
-40	4.34	5.50	6.91	8.31	9.76	10.6	11.1	11.1	10.9	10.6	10.5	10.3	9.94	9.17	7.91	6.47	5.17	4.12	153	0.00
-45	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
Φ t	91.8	124	169	236	345	536	846	1237	1544	1553	1254	861	548	353	241	172	126	93.5	10330	---
Φ a	0.00	0.00	0.00	17.0	173	402	720	1121	1438	1444	1131	741	432	187	11.6	0.00	0.00	0.00	---	7818

one-half-peak spread: U:10.2,D:15.6 , L:12.3,R:11.7 NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-08-29
 V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.4V I:0.7138A P:150.6W PF:0.9571 Lamp Flux:11810x1 lm		
NAME: 8.03.005.0182 30° SP-F310B-52P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080129
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

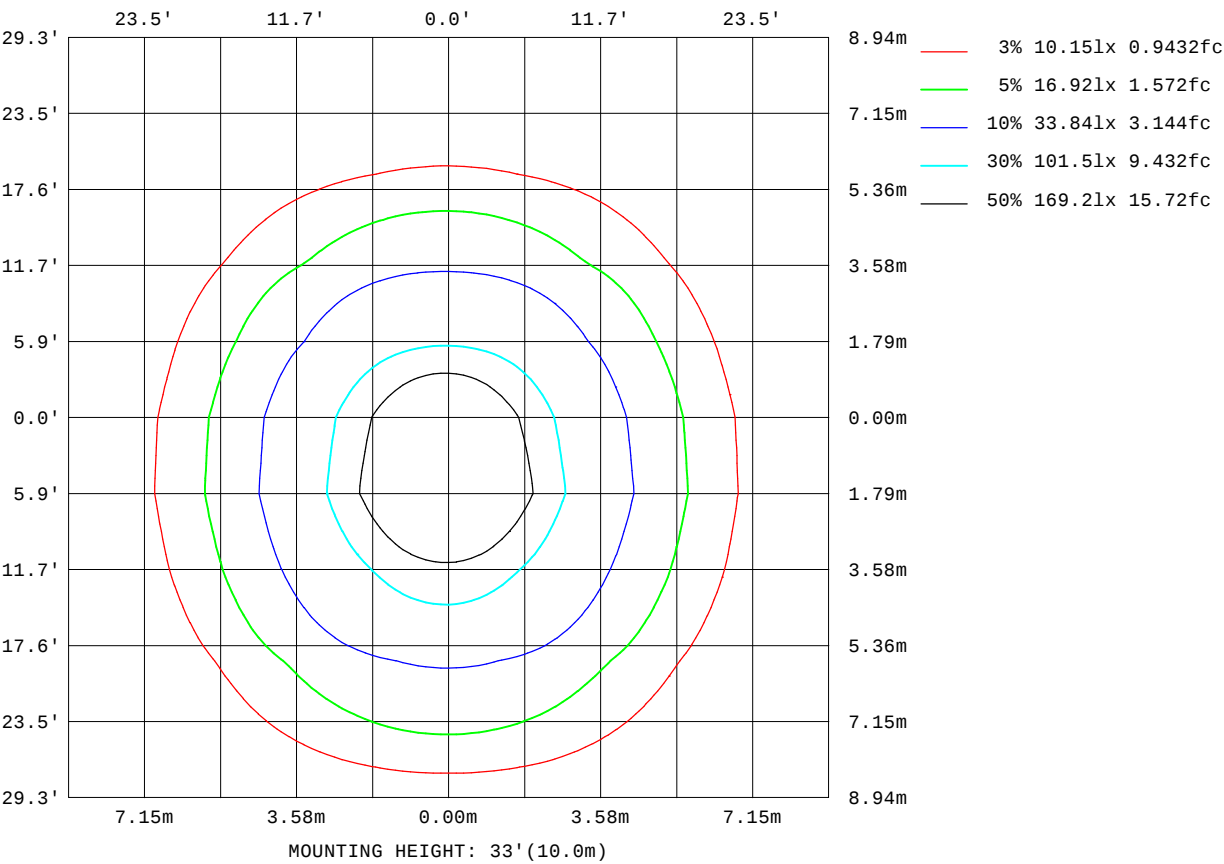


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ISOLUX DIAGRAM

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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

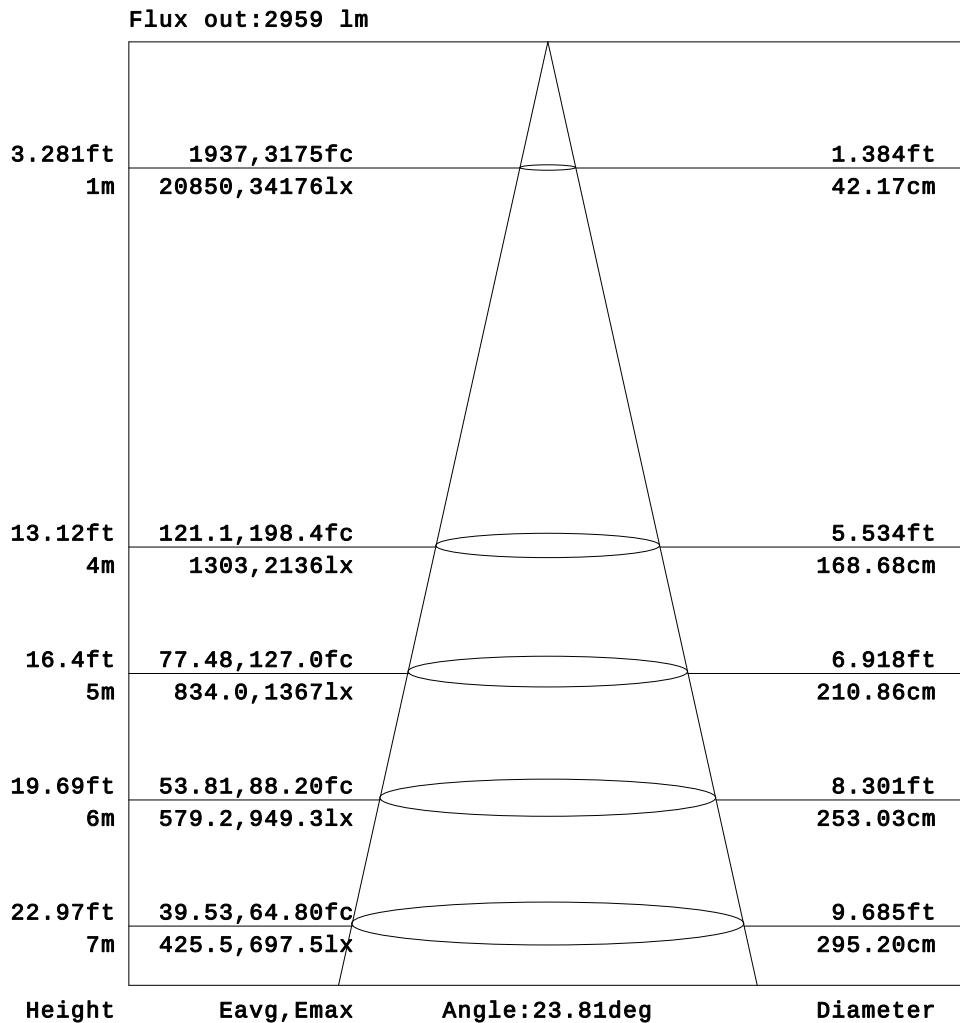


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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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DIM.:	SPEC.:	SERIAL No.:2024080129
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

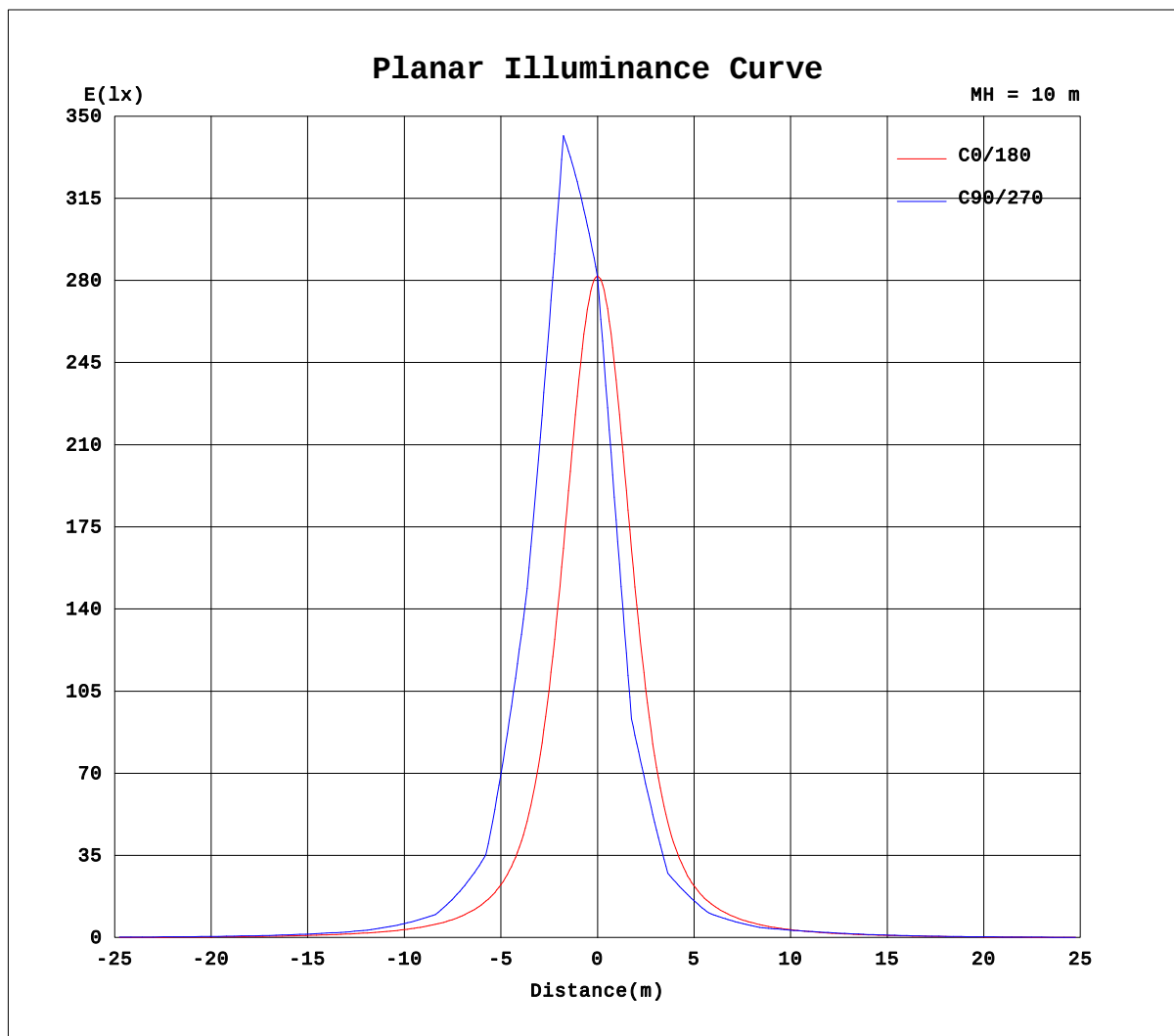


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Test Date:2024-08-29

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



H(β) Range: -90 - 90DEG
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V(B) Range: -80 - 80DEG
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 8.03.005.0182 30° SP-F310B-52P-RDM									TYPE:LED			WEIGHT:					
DIM.:									SPEC.:			SERIAL No.:2024080129					
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:			PROTECTION ANGLE:					

Table--1

UNIT: ×10cd

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	1.28	3.14	5.36	7.59	10.3	12.6	14.4	16.0	17.9	19.9	22.0	23.4	24.2	24.4
-75	0.00	0.00	0.00	0.05	1.47	3.73	6.70	10.4	13.9	17.3	20.4	23.3	26.2	29.1	32.0	34.6	36.3	37.4	37.7
-70	0.00	0.00	0.00	0.45	3.65	7.33	11.6	16.9	21.6	25.7	29.5	33.5	37.4	41.5	45.3	48.0	49.8	50.8	51.1
-65	0.00	0.00	0.00	1.33	5.39	10.2	15.9	21.8	27.4	32.6	37.7	42.8	47.9	52.8	57.3	60.7	63.0	64.2	64.7
-60	0.00	0.00	0.00	3.61	8.97	15.3	22.5	29.0	35.3	41.5	47.9	54.2	60.3	66.1	70.9	74.4	76.8	78.0	78.4
-55	0.00	0.00	0.05	4.06	10.2	18.0	26.1	33.4	40.7	48.2	55.8	63.7	71.9	79.8	86.8	92.6	96.8	99.5	101
-50	0.00	0.00	0.67	6.97	14.4	24.0	32.6	40.7	49.1	57.8	66.8	76.6	86.8	96.6	105	113	118	122	123
-45	0.00	0.00	0.61	7.11	15.3	25.6	35.2	44.0	53.3	63.3	74.3	87.2	102	118	133	147	159	168	172
-40	0.00	0.00	2.44	10.2	20.3	30.9	41.1	50.9	61.5	73.0	86.5	104	124	145	167	186	204	217	222
-35	0.00	0.00	1.87	9.56	20.1	31.6	42.0	52.3	63.7	76.4	92.2	113	140	173	213	262	314	360	383
-30	0.00	0.00	4.16	12.3	24.9	36.4	46.9	58.1	70.6	85.6	105	133	169	215	278	358	444	517	546
-25	0.00	0.00	3.06	11.3	24.0	35.9	46.7	58.4	71.4	87.3	109	140	183	249	359	531	772	1031	1167
-20	0.00	0.00	4.76	14.5	28.3	39.8	51.1	63.5	77.8	96.6	123	161	220	318	497	789	1209	1629	1791
-15	0.00	0.00	3.35	13.0	26.4	38.1	49.4	61.9	76.0	94.4	121	160	222	329	540	940	1568	2288	2678
-10	0.00	0.00	4.92	16.4	29.4	40.8	52.5	65.5	80.6	101	132	179	257	403	706	1310	2223	3186	3572
-5	0.00	0.00	3.50	13.8	26.9	38.6	50.1	62.7	77.2	96.3	124	165	232	352	594	1073	1839	2715	3190
0	0.00	0.00	5.67	16.1	29.2	40.9	52.5	65.4	80.5	101	130	174	244	374	629	1104	1813	2536	2814
5	0.00	0.00	3.38	13.2	25.9	37.6	48.8	61.0	74.8	92.3	117	153	207	295	457	742	1173	1645	1895
10	0.00	0.00	4.64	14.8	27.6	38.7	49.7	61.8	75.4	92.4	116	149	197	267	376	533	729	908	976
15	0.00	0.00	2.49	11.8	23.5	34.8	45.4	56.6	69.0	83.5	103	129	165	211	279	372	488	598	654
20	0.00	0.00	3.62	12.9	24.3	35.2	45.3	56.2	68.0	81.3	98.6	122	149	179	215	255	294	323	332
25	0.00	0.00	1.43	9.46	19.5	30.2	39.9	49.6	60.1	71.6	85.3	103	124	146	170	195	220	239	248
30	0.00	0.00	1.95	9.62	19.1	29.3	38.2	47.1	56.7	67.0	78.4	91.9	107	122	135	145	155	161	163
35	0.00	0.00	0.43	6.31	14.3	23.5	32.1	40.2	48.6	57.6	67.0	77.4	89.2	100	111	118	125	129	131
40	0.00	0.00	0.33	5.97	13.0	21.5	29.3	36.7	44.0	51.9	59.7	67.6	75.7	83.1	89.2	93.7	97.1	99.1	99.6
45	0.00	0.00	0.01	4.00	10.6	18.3	26.3	33.3	40.2	47.6	55.0	62.4	69.9	77.1	83.1	87.4	90.6	92.6	93.3
50	0.00	0.00	0.13	4.57	11.0	18.5	26.1	32.7	39.2	46.3	53.4	60.2	67.2	73.7	78.8	82.5	85.2	86.6	87.0
55	0.00	0.00	0.00	1.95	6.89	13.0	19.5	25.8	31.4	37.2	43.2	49.0	54.8	60.6	65.4	68.8	71.2	72.6	73.0
60	0.00	0.00	0.00	1.03	4.96	9.95	15.5	21.2	25.9	30.5	35.4	40.1	44.8	49.6	53.5	56.2	58.0	58.9	59.0
65	0.00	0.00	0.00	0.29	2.21	5.68	9.86	14.4	18.6	22.6	26.6	30.1	33.6	37.4	40.8	43.6	45.4	46.4	46.6
70	0.00	0.00	0.00	0.00	0.63	2.92	6.15	9.29	12.8	16.3	19.1	21.4	24.0	26.7	29.5	31.9	33.4	34.1	34.2
75	0.00	0.00	0.00	0.00	0.14	1.17	2.74	4.34	6.58	8.81	10.7	12.3	14.1	15.7	17.4	19.0	20.2	20.9	21.1
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1.17	2.17	2.98	3.85	4.83	5.43	5.95	6.63	7.51	7.92	7.93
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.:2024080129
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--2																		UNIT: ×10cd	
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	24.2	23.5	22.1	20.1	18.1	16.2	14.4	12.6	10.3	7.75	5.40	3.26	1.33	0.00	0.00	0.00	0.00	0.00	
-75	37.6	36.9	35.5	33.3	30.6	27.5	24.6	21.5	18.5	15.3	11.9	8.38	5.09	2.38	0.56	0.00	0.00	0.00	
-70	50.9	50.0	48.2	45.6	41.8	37.7	33.6	29.3	25.4	21.4	17.0	12.1	7.73	3.91	0.47	0.00	0.00	0.00	
-65	64.6	63.6	61.8	58.9	55.0	50.0	44.9	39.6	34.4	29.2	24.0	18.5	12.8	7.43	2.90	0.04	0.00	0.00	
-60	78.0	76.7	74.4	70.9	66.3	60.3	54.1	47.8	41.4	35.0	28.9	22.6	15.5	9.07	3.55	0.00	0.00	0.00	
-55	100	98.1	94.4	89.4	83.2	75.4	67.1	59.1	51.3	43.6	36.3	29.1	21.4	13.6	6.77	1.02	0.00	0.00	
-50	122	118	113	106	97.2	87.1	76.9	67.2	58.1	49.3	40.8	32.4	24.1	15.2	7.46	0.72	0.00	0.00	
-45	170	163	151	138	124	108	92.7	79.0	67.4	57.2	47.5	38.3	29.3	19.8	10.5	2.96	0.00	0.00	
-40	216	203	185	166	145	123	103	85.9	72.5	61.1	50.5	40.5	30.8	20.5	10.3	2.55	0.00	0.00	
-35	371	331	278	228	185	151	123	99.3	81.8	68.3	56.6	45.6	35.4	24.7	13.6	4.73	0.00	0.00	
-30	513	439	350	272	211	168	132	105	85.2	70.6	58.2	46.6	35.8	24.5	12.9	3.88	0.00	0.00	
-25	1081	840	585	398	275	202	153	118	93.7	76.4	62.8	50.6	39.3	28.0	16.0	5.85	0.00	0.00	
-20	1569	1135	734	465	304	213	157	120	94.3	76.3	62.4	49.9	38.3	26.8	14.4	4.44	0.00	0.00	
-15	2452	1764	1082	624	376	246	175	131	102	81.2	66.3	53.3	41.4	29.7	17.3	6.46	0.00	0.00	
-10	3101	2100	1207	656	380	245	172	129	99.4	79.5	64.7	51.7	39.8	27.7	15.2	4.85	0.00	0.00	
-5	2900	2060	1233	687	401	258	181	134	103	82.2	66.9	53.8	41.7	29.9	17.4	6.48	0.00	0.00	
0	2411	1662	991	569	348	232	166	125	97.1	78.1	63.7	50.8	39.0	27.3	14.6	4.44	0.00	0.00	
5	1724	1276	825	509	326	225	165	125	97.9	79.1	64.8	52.1	40.4	28.8	16.5	5.93	0.00	0.00	
10	885	698	507	357	254	189	144	113	90.1	73.8	60.6	48.5	37.3	25.5	13.4	3.93	0.00	0.00	
15	618	516	399	299	225	174	137	108	87.9	72.5	59.8	48.2	37.3	26.2	14.3	4.86	0.00	0.00	
20	318	287	247	208	173	143	117	95.0	78.7	65.8	54.2	43.4	33.1	22.2	11.0	2.71	0.00	0.00	
25	242	224	201	175	151	128	107	88.7	74.6	62.8	52.0	41.9	32.1	21.8	11.4	3.34	0.00	0.00	
30	160	153	144	133	119	104	89.3	76.3	65.5	55.4	45.7	36.6	27.2	17.2	8.30	1.40	0.00	0.00	
35	130	126	120	112	102	91.2	79.8	69.0	59.6	50.6	41.9	33.7	25.1	16.0	7.91	1.67	0.00	0.00	
40	98.8	96.6	92.9	87.8	81.5	73.8	65.7	57.8	50.0	42.2	34.9	27.5	19.5	11.2	4.73	0.20	0.00	0.00	
45	92.9	91.2	88.3	83.9	78.3	71.4	63.8	56.4	48.9	41.5	34.3	27.3	19.7	11.8	5.39	0.54	0.00	0.00	
50	86.4	84.9	82.1	77.9	72.5	65.9	58.9	52.0	44.9	37.9	30.9	24.2	16.7	9.59	3.80	0.01	0.00	0.00	
55	72.7	71.5	69.4	66.0	61.4	55.8	50.0	44.2	38.4	32.5	26.6	20.3	14.0	8.08	3.16	0.16	0.00	0.00	
60	58.6	57.5	55.6	52.5	48.2	43.5	38.9	34.1	29.5	24.8	19.8	14.0	8.86	4.39	0.86	0.00	0.00	0.00	
65	46.4	45.4	43.7	41.0	37.6	33.8	30.3	26.7	23.0	19.0	14.8	10.5	6.37	3.01	0.75	0.00	0.00	0.00	
70	34.0	32.6	30.9	28.2	25.5	22.7	20.3	17.9	15.0	11.5	8.12	5.29	2.48	0.34	0.00	0.00	0.00	0.00	
75	20.9	20.1	18.9	17.3	15.6	13.9	12.2	10.5	8.72	6.53	4.40	2.93	1.48	0.36	0.00	0.00	0.00	0.00	
80	7.77	7.17	6.29	5.65	5.08	4.37	3.42	2.50	1.62	0.60	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:28.0DEG
Operators:QC1
Test Date:2024-08-29

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: