

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

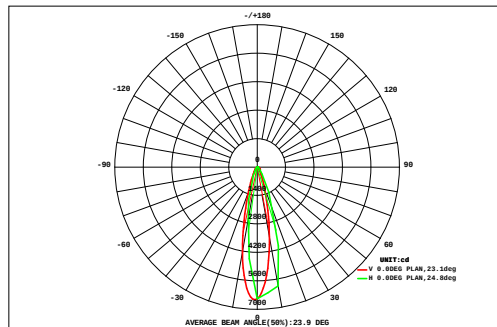
Maximum Intensity (Luminaire orientation as tested.)		3484.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	50.3V x 49.2H
	At 50% of Imax	24.7V x 23.1H
	At 90% of Imax	12.5V x 8.7H
Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	727.0 lumens per klm.
	To 50% of Imax	358.8 lumens per klm.
	To 90% of Imax	73.3 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:2023-12-28

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:119.5V I:0.5552A P:44.07W PF:0.6645 Lamp Flux:1870.52x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:42.44lm/W	
MODEL	DKP-F170-24P-RDM-AL	Imax(cd)	6518
NOMINAL POWER(W)	44	AVAILABILITY(%)	73.2
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1370
NOMINAL FLUX(lm)	1870.52	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1871
TEST VOLTAGE(V)	119.5	θ @50%(H,V)	23, 25DEG

45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25 -30 -35 -40 -45 -45	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a									
	0.43	0.57	0.72	0.89	1.07	1.27	1.45	1.59	1.67	1.67	1.59	1.44	1.27	1.08	0.90	0.74	0.59	0.46	19.4	0.00											
	0.50	0.67	0.85	1.06	1.30	1.56	1.80	1.99	2.10	2.10	1.99	1.79	1.55	1.30	1.07	0.87	0.69	0.53	23.7	0.00											
	0.58	0.79	1.06	1.39	1.82	2.36	2.97	3.54	3.88	3.85	3.49	2.92	2.33	1.80	1.38	1.06	0.81	0.61	36.6	0.00											
	0.66	0.91	1.24	1.67	2.24	2.99	3.87	4.70	5.20	5.17	4.62	3.79	2.94	2.21	1.64	1.22	0.92	0.68	46.7	10.0											
	0.74	1.04	1.49	2.19	3.32	5.18	7.92	11.0	13.0	12.6	10.2	7.14	4.71	3.09	2.09	1.46	1.04	0.75	89.0	68.2											
	0.82	1.17	1.72	2.63	4.19	6.85	10.9	15.6	18.6	18.0	14.3	9.66	6.09	3.82	2.48	1.67	1.16	0.82	121	101											
	0.86	1.26	1.91	3.10	5.44	10.3	18.8	29.5	37.0	35.8	26.7	16.0	8.74	4.83	2.88	1.84	1.24	0.86	207	191											
	0.92	1.36	2.12	3.56	6.56	13.1	25.1	40.2	51.0	49.4	36.4	21.1	11.0	5.75	3.27	2.02	1.33	0.91	275	260											
	0.90	1.33	2.08	3.47	6.33	12.4	23.7	38.0	47.5	45.1	33.0	19.5	10.2	5.37	3.10	1.94	1.29	0.89	256	240											
	0.91	1.35	2.13	3.56	6.56	12.9	24.9	40.2	49.9	46.8	34.0	20.0	10.4	5.42	3.11	1.95	1.30	0.89	266	250											
	0.83	1.22	1.82	2.86	4.79	8.41	14.5	21.9	26.7	25.5	19.3	12.2	7.08	4.15	2.59	1.70	1.17	0.82	158	140											
	0.79	1.13	1.63	2.42	3.68	5.56	7.98	10.5	12.1	11.9	9.91	7.25	4.95	3.32	2.24	1.54	1.09	0.78	88.7	67.2											
	0.70	0.98	1.37	1.94	2.82	4.12	5.90	7.79	8.94	8.66	7.14	5.24	3.65	2.54	1.80	1.30	0.94	0.69	66.5	42.3											
	0.63	0.85	1.12	1.47	1.88	2.21	2.33	2.20	2.13	2.12	2.17	2.24	2.07	1.74	1.38	1.08	0.82	0.61	29.0	0.00											
	0.54	0.72	0.95	1.23	1.58	1.98	2.41	2.77	2.97	2.91	2.64	2.25	1.84	1.47	1.16	0.91	0.70	0.53	29.6	0.00											
	0.45	0.59	0.75	0.91	1.06	1.19	1.27	1.31	1.31	1.31	1.30	1.25	1.16	1.02	0.87	0.72	0.58	0.45	17.5	0.00											
	0.38	0.50	0.62	0.77	0.92	1.06	1.20	1.30	1.35	1.34	1.26	1.15	1.01	0.87	0.73	0.60	0.48	0.37	15.9	0.00											
	0.30	0.39	0.48	0.56	0.64	0.71	0.77	0.80	0.82	0.82	0.79	0.75	0.69	0.62	0.54	0.46	0.37	0.29	10.8	0.00											
	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)																10	15	20	25	30	35	40	45
Φ t	11.9	16.8	24.1	35.7	56.2	94.3	158	235	286	275	211	136	81.6	50.4	33.2	23.1	16.5	11.9	1756	---											
Φ a	0.00	0.00	0.00	0.37	28.5	73.4	139	216	268	257	192	117	58.9	19.1	0.00	0.00	0.00	0.00	---	1370											

one-half-peak spread: U:8.1,D:16.8 , L:11.6,R:11.7

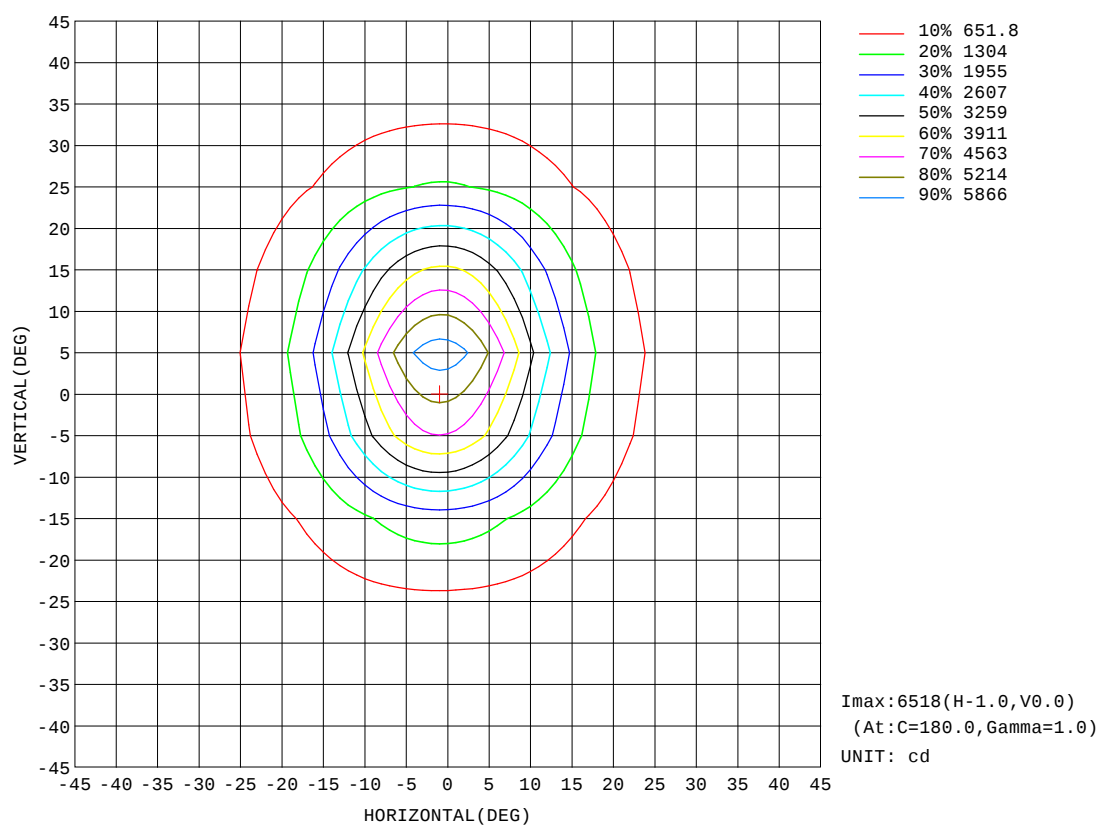
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:27.1DEG
 Operators:QC1
 Test Date:2023-12-28

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:119.5V I:0.5552A P:44.07W PF:0.6645 Lamp Flux:1870.52x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

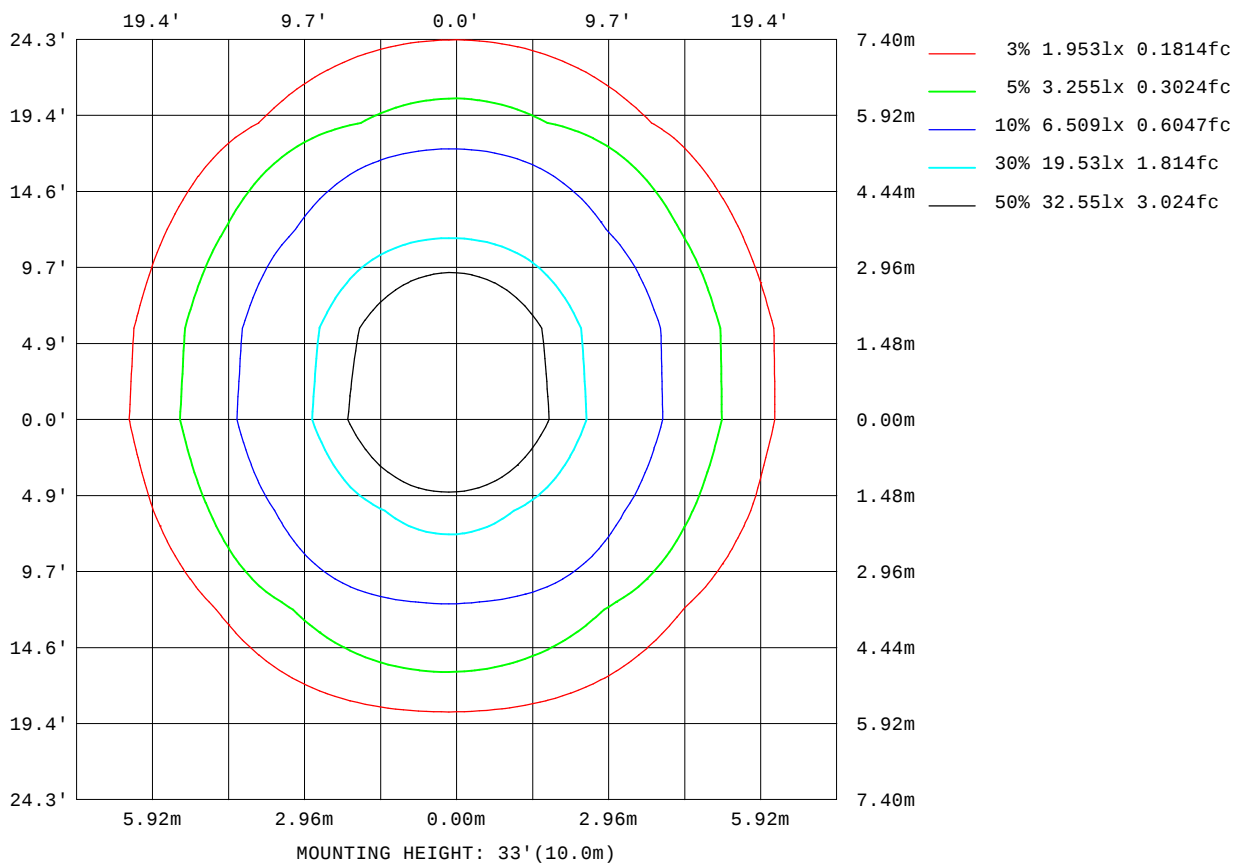


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V(B) Interval: 5.0DEG
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Humidity:61%
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Remarks:

ISOLUX DIAGRAM

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

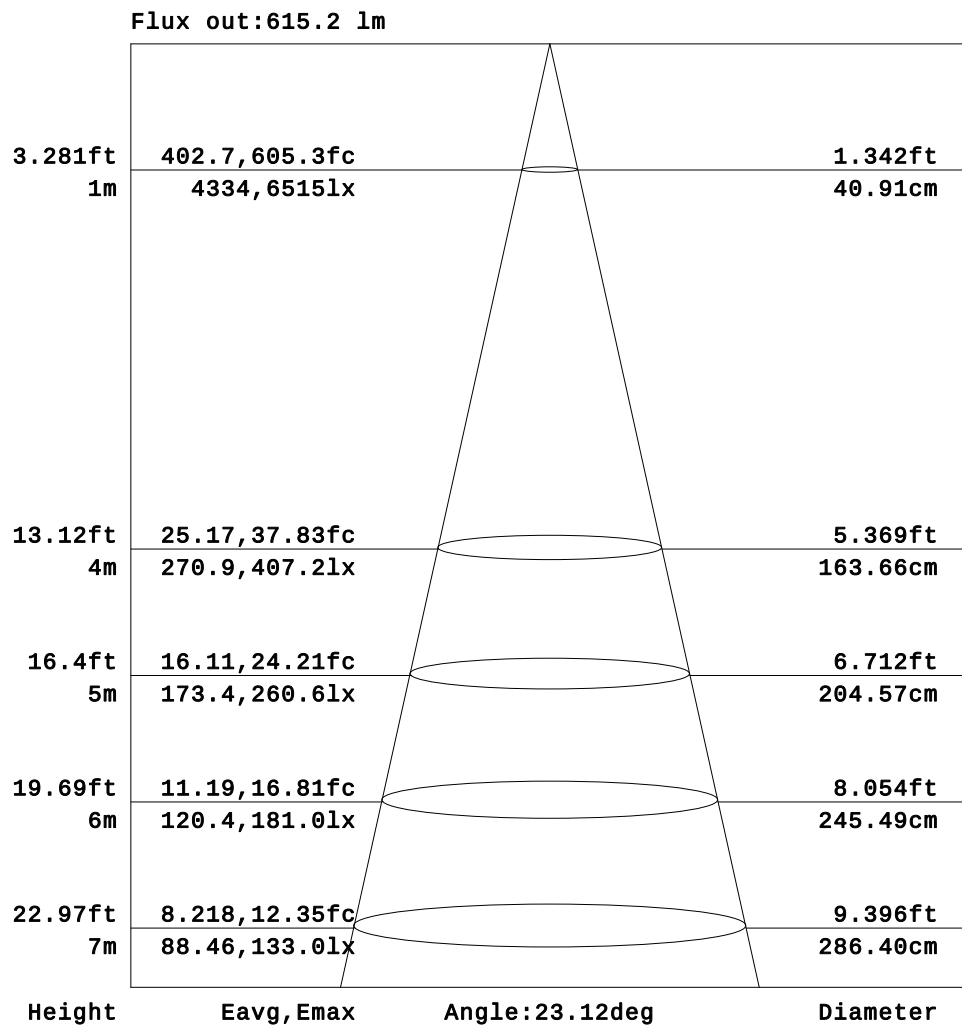


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

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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:

AAI Figure

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

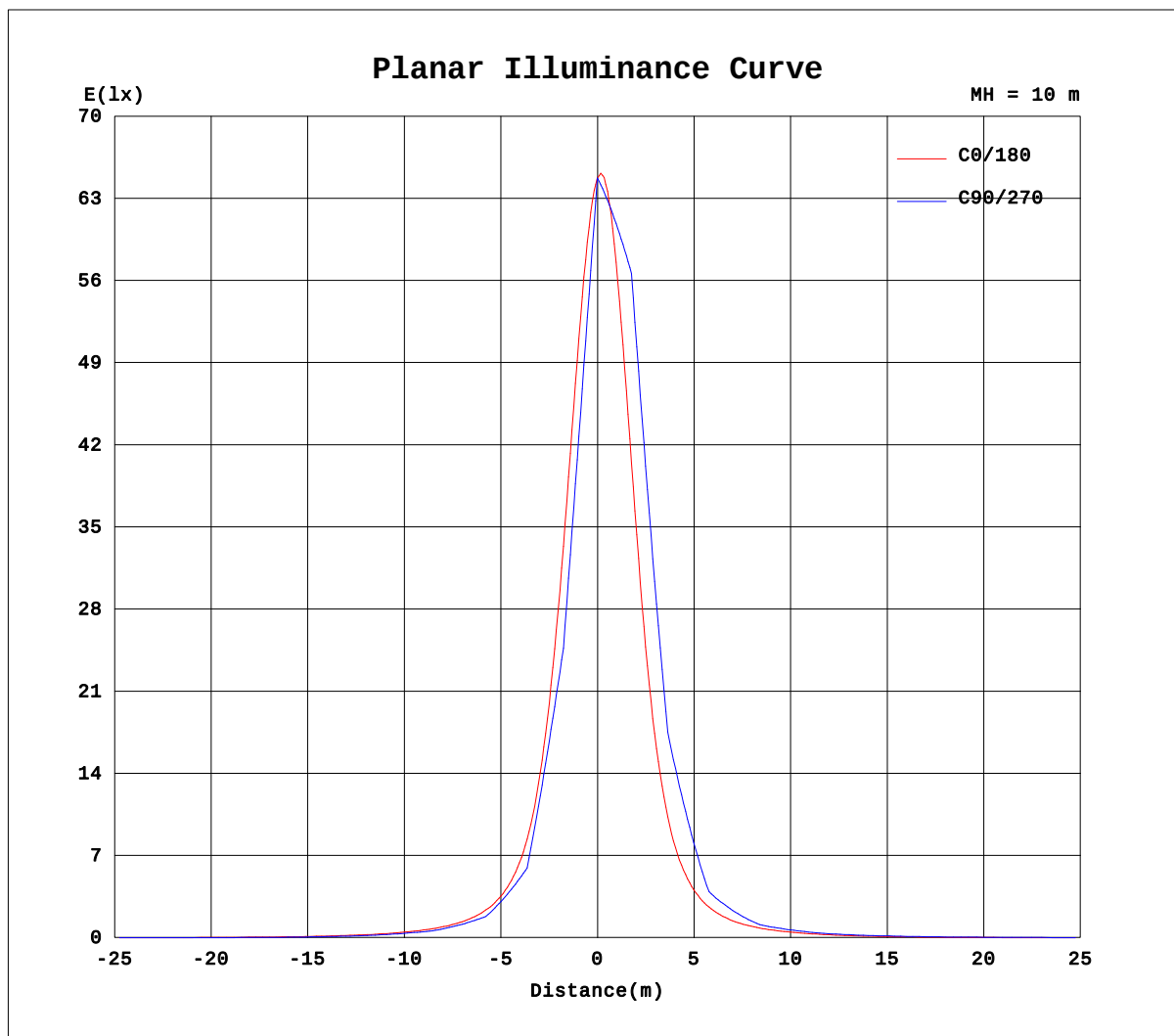


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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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



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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:									SPEC.:						SERIAL No.:2023120054		
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	0.19	2.91	5.42	7.69	9.66	11.4	12.6	13.3	13.9	14.5	14.9	15.0
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	5.82	10.8	15.4	19.3	22.8	25.2	26.7	27.9	29.0	29.9	30.1
-55	0.00	0.00	0.00	0.00	0.00	0.01	3.49	7.91	15.4	22.5	28.6	33.9	38.5	42.4	45.7	48.6	51.1	52.7	53.1
-50	0.00	0.00	0.00	0.00	0.00	0.01	6.98	15.4	25.0	34.1	41.8	48.4	54.2	59.6	64.7	69.4	73.3	75.6	76.2
-45	0.00	0.00	0.00	0.00	0.00	3.66	12.7	23.5	34.2	44.6	54.4	63.9	73.1	82.1	90.8	98.5	105	108	109
-40	0.00	0.00	0.00	0.00	0.00	7.31	18.4	31.5	43.5	55.1	66.9	79.4	92.0	105	117	128	136	141	143
-35	0.00	0.00	0.00	0.00	1.74	11.0	24.1	38.3	52.2	66.7	82.5	99.5	118	139	160	181	198	210	212
-30	0.00	0.00	0.00	0.00	3.48	14.7	29.9	45.0	60.9	78.4	98.1	120	144	173	203	234	260	278	282
-25	0.00	0.00	0.00	0.00	5.77	18.5	34.6	51.3	69.9	91.1	116	145	182	231	292	364	435	488	501
-20	0.00	0.00	0.00	0.00	8.06	22.3	39.4	57.6	79.0	104	133	170	220	290	382	494	611	698	720
-15	0.00	0.00	0.00	0.01	9.61	24.9	42.8	62.5	86.3	114	150	198	270	384	568	851	1225	1556	1652
-10	0.00	0.00	0.00	0.02	11.2	27.5	46.1	67.3	93.6	124	167	226	320	479	754	1208	1839	2414	2584
-5	0.00	0.00	0.00	0.41	12.2	29.3	48.3	70.3	97.9	131	177	245	362	577	998	1801	3038	4199	4529
0	0.00	0.00	0.00	0.80	13.3	31.1	50.4	73.3	102	138	187	264	404	675	1243	2393	4236	5984	6474
5	0.00	0.00	0.00	0.64	13.1	30.6	49.9	72.5	101	136	186	261	395	654	1194	2292	4008	5669	6200
10	0.00	0.00	0.00	0.48	13.0	30.2	49.4	71.7	100	134	184	257	386	634	1145	2191	3780	5354	5926
15	0.00	0.00	0.00	0.24	12.2	28.9	47.6	68.9	95.5	127	171	235	341	532	903	1608	2651	3661	4019
20	0.00	0.00	0.00	0.00	11.4	27.6	45.7	66.0	91.0	121	159	212	296	431	660	1025	1523	1967	2111
25	0.00	0.00	0.00	0.00	9.63	24.4	41.8	60.4	82.7	109	141	185	248	343	493	719	1015	1273	1358
30	0.00	0.00	0.00	0.00	7.83	21.2	37.9	54.9	74.4	97.6	124	159	200	255	325	414	506	578	604
35	0.00	0.00	0.00	0.00	5.67	17.7	33.4	49.2	66.3	85.9	108	135	167	206	254	310	367	411	427
40	0.00	0.00	0.00	0.00	3.50	14.2	28.9	43.5	58.1	74.2	92.2	112	133	157	182	207	229	244	250
45	0.00	0.00	0.00	0.00	1.75	10.6	23.0	36.8	50.1	63.6	78.1	93.6	110	127	146	163	178	189	193
50	0.00	0.00	0.00	0.00	0.00	7.07	17.2	30.2	42.2	53.0	63.9	75.3	86.9	98.4	110	120	128	133	135
55	0.00	0.00	0.00	0.00	0.00	3.68	12.5	22.9	33.3	43.4	52.8	61.7	70.2	78.4	86.2	93.2	99.0	103	105
60	0.00	0.00	0.00	0.00	0.00	0.29	7.75	15.6	24.4	33.7	41.8	48.2	53.6	58.5	62.8	66.7	70.2	72.6	73.7
65	0.00	0.00	0.00	0.00	0.00	0.14	3.88	8.49	15.7	23.0	29.4	34.3	38.6	42.4	45.2	47.4	49.3	50.9	51.5
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	7.09	12.4	17.0	20.4	23.6	26.3	27.6	28.1	28.5	29.1	29.3
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	3.55	6.18	8.51	10.2	11.8	13.1	13.8	14.0	14.2	14.6	14.7
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

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 Operators:QC1
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V(B) Range:-80 - 80DEG
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 Humidity:61%
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 Remarks:

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DIM.:	SPEC.:	SERIAL No.:2023120054
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	14.7	14.0	13.1	12.2	11.2	9.74	7.84	5.76	3.41	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	29.4	28.0	26.2	24.4	22.3	19.5	15.7	11.5	6.81	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	52.2	50.0	47.0	43.5	39.8	35.5	30.5	25.1	18.7	11.6	6.08	2.03	0.00	0.00	0.00	0.00	0.00	0.00
-50	74.9	72.0	67.8	62.7	57.3	51.5	45.4	38.6	30.6	21.4	12.2	4.06	0.00	0.00	0.00	0.00	0.00	0.00
-45	107	102	95.1	87.2	78.7	69.9	61.1	51.7	41.5	30.7	19.9	9.45	2.06	0.00	0.00	0.00	0.00	0.00
-40	140	132	122	112	100	88.3	76.8	64.8	52.4	40.1	27.6	14.8	4.11	0.00	0.00	0.00	0.00	0.00
-35	205	191	172	151	131	113	96.3	80.6	65.3	50.4	35.7	21.3	8.21	0.68	0.00	0.00	0.00	0.00
-30	271	249	221	191	163	138	116	96.4	78.2	60.7	43.8	27.7	12.3	1.36	0.00	0.00	0.00	0.00
-25	469	405	334	268	215	173	140	113	90.6	70.4	50.9	33.0	16.5	3.72	0.00	0.00	0.00	0.00
-20	666	561	447	345	266	208	164	129	103	80.1	58.0	38.4	20.6	6.09	0.00	0.00	0.00	0.00
-15	1453	1089	743	500	348	253	190	146	114	88.2	64.3	43.0	24.0	8.13	0.00	0.00	0.00	0.00
-10	2240	1617	1039	655	430	298	215	162	125	96.3	70.7	47.6	27.4	10.2	0.00	0.00	0.00	0.00
-5	3797	2556	1486	835	505	332	233	173	131	100	73.5	49.6	28.8	11.0	0.01	0.00	0.00	0.00
0	5353	3495	1933	1015	579	366	252	183	136	104	76.2	51.6	30.2	11.8	0.02	0.00	0.00	0.00
5	5181	3391	1883	1001	576	365	250	182	137	104	76.5	51.7	30.4	11.9	0.01	0.00	0.00	0.00
10	5008	3288	1833	986	573	364	249	181	137	104	76.7	51.9	30.5	12.1	0.01	0.00	0.00	0.00
15	3429	2327	1373	793	488	324	229	170	130	99.5	73.0	49.1	28.6	10.9	0.01	0.00	0.00	0.00
20	1851	1367	914	600	403	284	209	159	122	94.7	69.2	46.3	26.7	9.68	0.00	0.00	0.00	0.00
25	1211	931	660	461	327	241	184	144	113	87.4	63.9	42.7	23.8	8.17	0.00	0.00	0.00	0.00
30	572	496	406	322	251	198	159	128	103	80.1	58.6	39.0	21.0	6.66	0.00	0.00	0.00	0.00
35	408	362	306	252	204	167	137	112	90.8	70.6	51.6	33.9	17.1	4.40	0.00	0.00	0.00	0.00
40	244	228	206	181	157	135	115	96.7	78.8	61.2	44.7	28.8	13.3	2.14	0.00	0.00	0.00	0.00
45	189	178	163	147	129	113	97.3	82.0	67.1	52.4	38.0	23.2	10.0	1.07	0.00	0.00	0.00	0.00
50	134	129	121	112	102	90.8	79.3	67.4	55.5	43.6	31.3	17.6	6.81	0.00	0.00	0.00	0.00	0.00
55	103	99.7	94.1	87.3	79.9	72.1	63.7	54.6	44.6	33.9	23.2	12.3	3.41	0.00	0.00	0.00	0.00	0.00
60	73.0	70.7	67.1	62.8	58.2	53.3	48.0	41.8	33.8	24.2	15.2	7.10	0.01	0.00	0.00	0.00	0.00	0.00
65	51.0	49.3	46.8	44.0	41.2	37.8	33.7	28.9	22.6	15.1	7.71	3.55	0.00	0.00	0.00	0.00	0.00	0.00
70	29.0	27.9	26.5	25.3	24.1	22.2	19.4	16.1	11.4	5.92	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	14.5	14.0	13.2	12.7	12.1	11.1	9.68	8.04	5.72	2.96	0.10	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:2023-12-28

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: