

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	392.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	150.1V x 149.0H
	At 50% of Imax	106.9V x 106.2H
	At 90% of Imax	45.4V x 45.4H

Beam Flux	Total	998.0 lumens per klm.
	To 10% of Imax	985.2 lumens per klm.
	To 50% of Imax	738.5 lumens per klm.
	To 90% of Imax	178.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

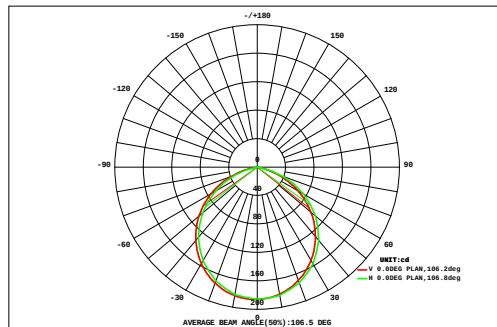
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.7704A P:18.49W PF:1.000 Lamp Flux:473.749x1 lm		
NAME: 8.02.022.0017 LLS-CN-W100-L6-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080035
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:25.62lm/W	
MODEL LLS-CN-W100-L6-DMX		Imax(cd)	186.1
NOMINAL POWER(W)	19	AVAILABILITY(%)	98.9
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	468.7
NOMINAL FLUX(lm)	473.749	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	473.7
TEST VOLTAGE(V)	24.0	θ @50%(H,V)	106,107DEG

AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a
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
80	0.00	0.00	0.01	0.06	0.15	0.25	0.37	0.49	0.54	0.51	0.42	0.31	0.21	0.11	0.02	0.00	0.00	3.44	2.58
70	0.00	0.00	0.08	0.32	0.65	1.03	1.38	1.62	1.74	1.71	1.54	1.25	0.88	0.51	0.18	0.03	0.00	12.9	12.4
60	0.00	0.02	0.25	0.67	1.19	1.74	2.22	2.58	2.76	2.73	2.50	2.10	1.58	1.03	0.52	0.14	0.00	22.1	21.8
50	0.00	0.07	0.41	0.97	1.64	2.35	2.97	3.43	3.66	3.64	3.35	2.85	2.20	1.49	0.82	0.29	0.02	30.1	30.0
40	0.00	0.11	0.54	1.22	2.03	2.85	3.59	4.14	4.42	4.39	4.06	3.47	2.70	1.86	1.06	0.42	0.05	36.9	36.8
30	0.00	0.15	0.65	1.41	2.31	3.24	4.07	4.69	5.00	4.98	4.61	3.95	3.09	2.16	1.26	0.53	0.08	42.2	42.1
20	0.00	0.17	0.72	1.54	2.51	3.51	4.40	5.06	5.40	5.38	4.98	4.27	3.35	2.35	1.38	0.59	0.10	45.7	45.6
10	0.00	0.18	0.75	1.59	2.60	3.63	4.55	5.24	5.60	5.57	5.16	4.43	3.48	2.44	1.45	0.63	0.11	47.4	47.4
0	0.00	0.18	0.75	1.59	2.59	3.62	4.54	5.22	5.58	5.55	5.14	4.41	3.47	2.43	1.44	0.62	0.11	47.2	47.2
-10	0.00	0.17	0.70	1.51	2.47	3.46	4.34	5.00	5.34	5.31	4.92	4.22	3.32	2.32	1.37	0.59	0.10	45.2	45.1
-20	0.00	0.14	0.63	1.37	2.26	3.18	3.99	4.59	4.90	4.87	4.51	3.86	3.02	2.10	1.22	0.51	0.07	41.2	41.2
-30	0.00	0.09	0.52	1.17	1.95	2.76	3.48	4.01	4.28	4.25	3.93	3.36	2.61	1.80	1.02	0.40	0.05	35.7	35.6
-40	0.00	0.04	0.38	0.92	1.56	2.23	2.83	3.27	3.49	3.47	3.19	2.71	2.08	1.40	0.76	0.27	0.02	28.6	28.5
-50	0.00	0.01	0.22	0.61	1.10	1.61	2.07	2.41	2.57	2.55	2.33	1.95	1.46	0.95	0.47	0.12	0.00	20.4	20.2
-60	0.00	0.00	0.06	0.29	0.59	0.92	1.22	1.44	1.54	1.52	1.36	1.10	0.78	0.45	0.16	0.02	0.00	11.5	10.9
-70	0.00	0.00	0.00	0.04	0.14	0.26	0.37	0.45	0.49	0.47	0.41	0.30	0.18	0.06	0.00	0.00	0.00	3.17	1.45
-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
-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
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																			
Φ t	0.00	1.34	6.67	15.3	25.8	36.6	46.4	53.7	57.3	56.9	52.4	44.5	34.4	23.5	13.2	5.15	0.71	0.00	474
Φ a	0.00	0.91	6.33	14.9	25.4	36.4	46.2	53.4	57.1	56.7	52.2	44.3	34.1	23.1	12.8	4.76	0.32	0.00	469

one-half-peak spread: U:52.8,D:54.7 , L:53.8,R:53.0

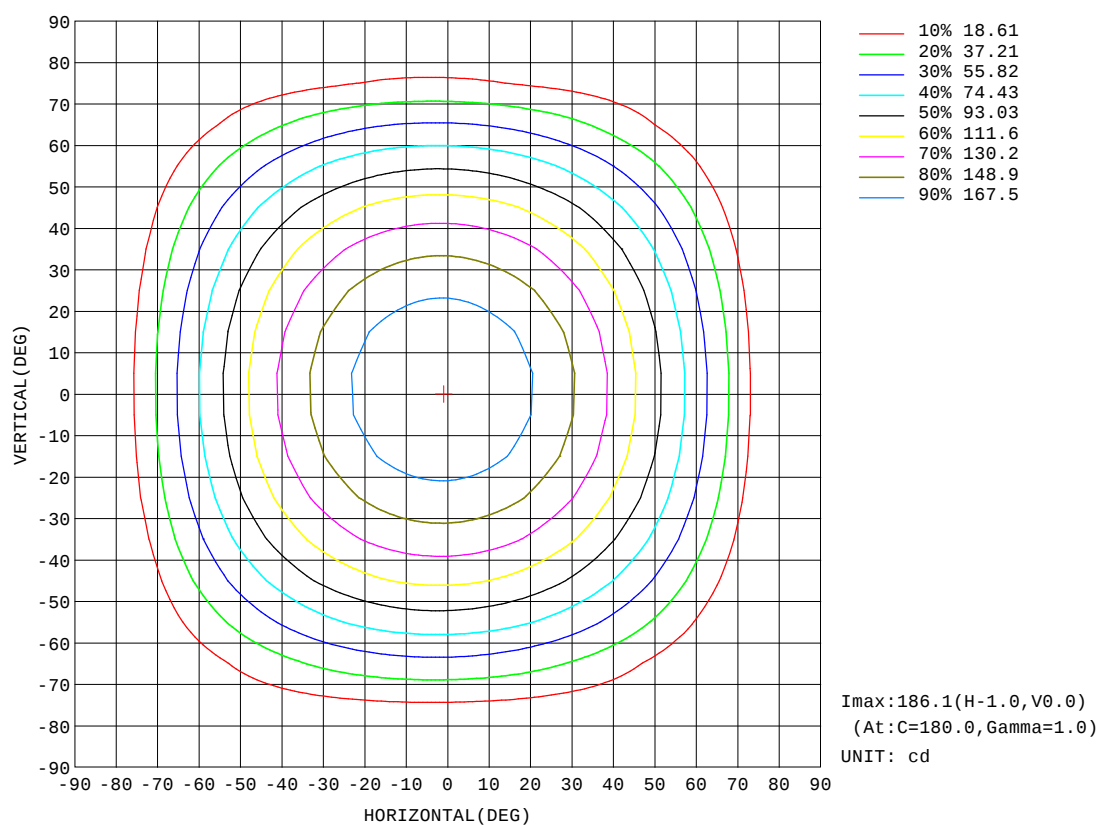
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:30.0DEG
 Operators:QC1
 Test Date:2023-08-25

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:44%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.7704A P:18.49W PF:1.000 Lamp Flux:473.749x1 lm		
NAME: 8.02.022.0017 LLS-CN-W100-L6-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080035
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

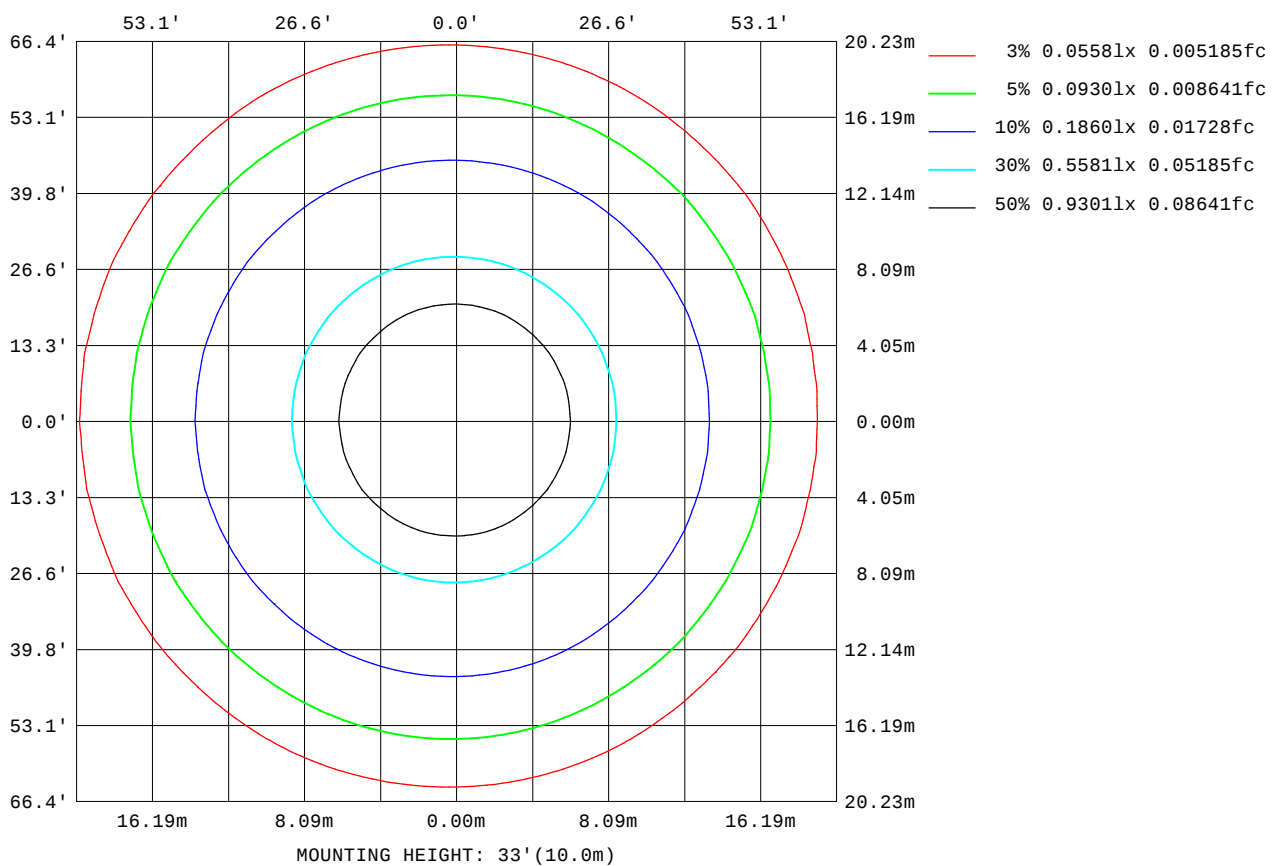


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.7704A P:18.49W PF:1.000 Lamp Flux:473.749x1 lm		
NAME: 8.02.022.0017 LLS-CN-W100-L6-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080035
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



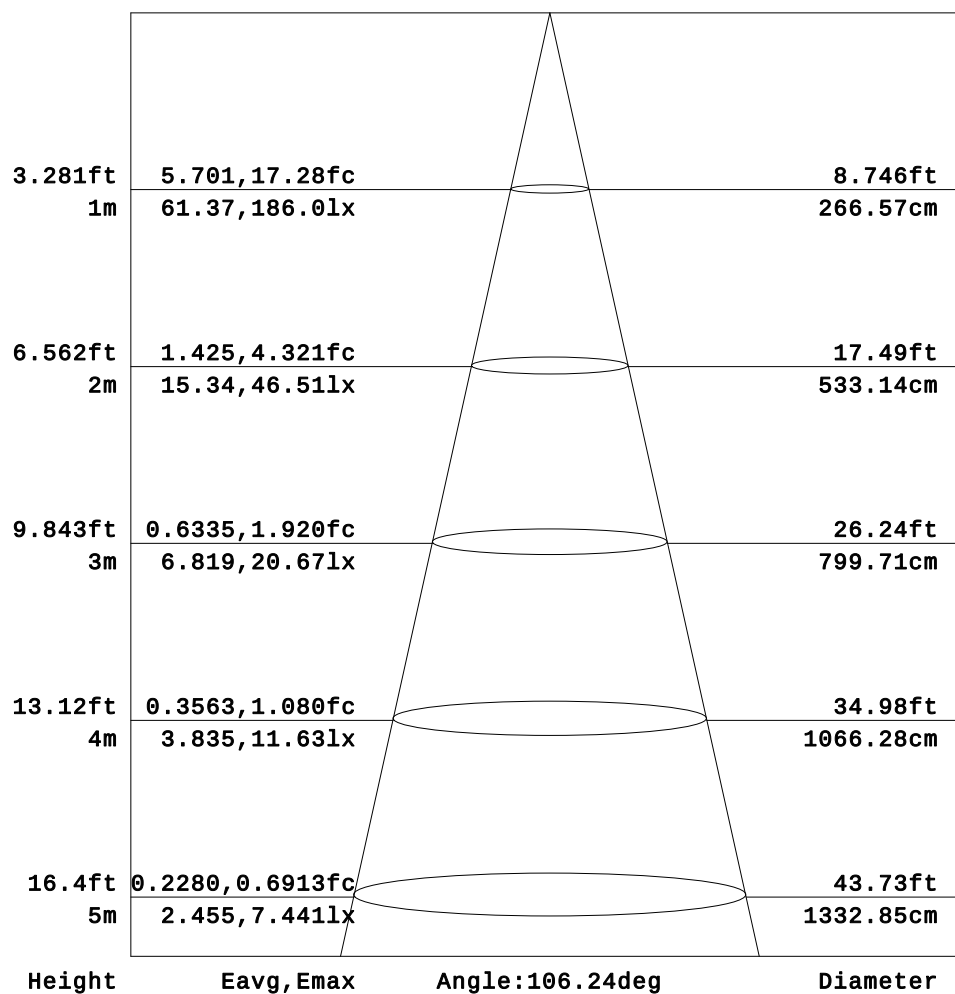
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.7704A P:18.49W PF:1.000 Lamp Flux:473.749x1 lm		
NAME: 8.02.022.0017 LLS-CN-W100-L6-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080035
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Flux out:352.1 lm

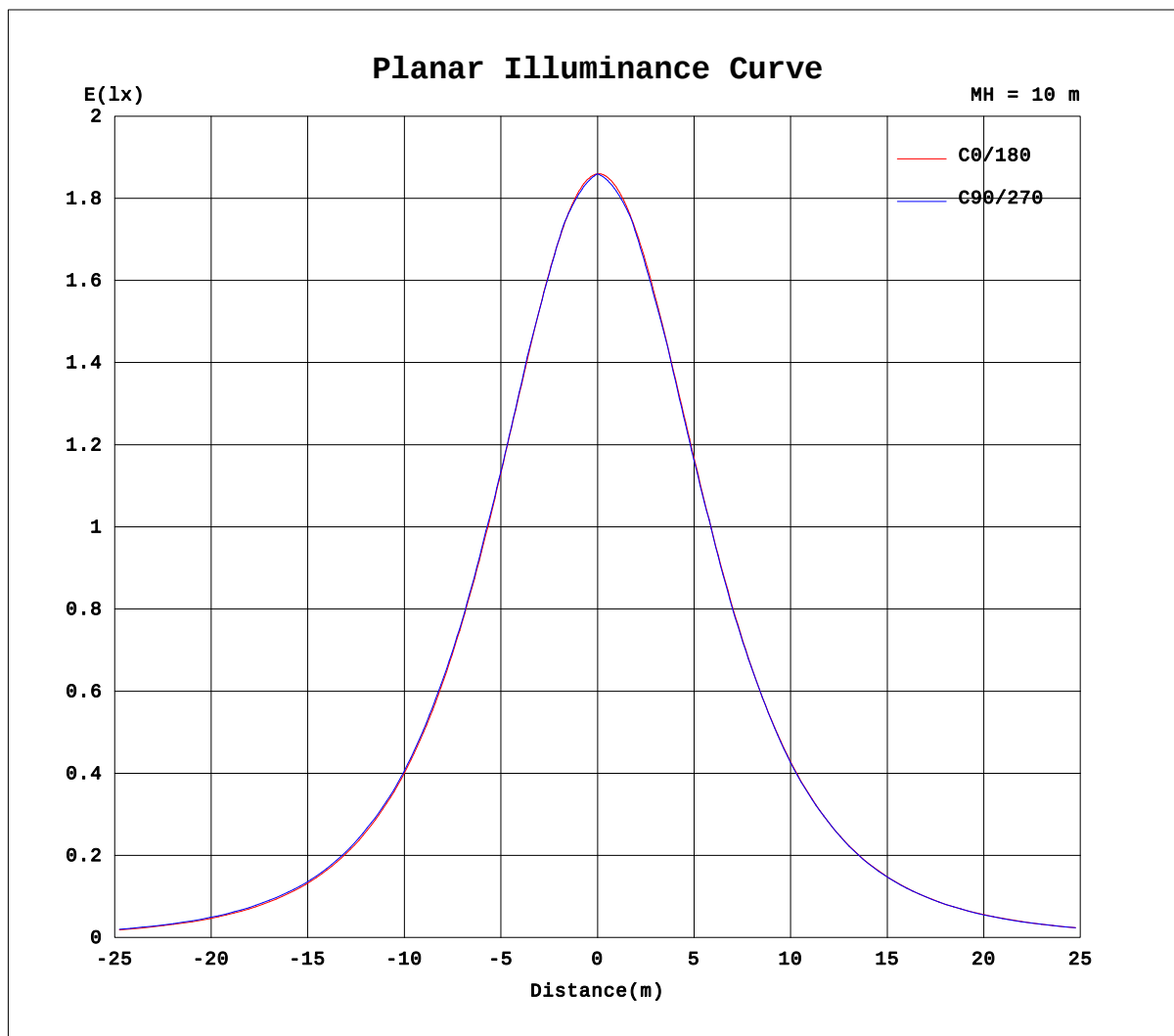


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
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:30.0DEG
Operators:QC1
Test Date:2023-08-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.7704A P:18.49W PF:1.000 Lamp Flux:473.749x1 lm		
NAME: 8.02.022.0017 LLS-CN-W100-L6-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080035
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	1.10	3.33	5.47	7.50	9.39	11.1	12.6	13.9	15.0	15.7	16.2	16.5	16.4
-70	0.00	0.00	0.00	0.00	0.00	0.00	2.21	6.66	10.9	15.0	18.8	22.2	25.2	27.8	29.9	31.5	32.5	32.9	32.8
-65	0.00	0.00	0.00	0.00	0.10	5.03	10.1	16.1	21.8	27.1	32.1	36.5	40.5	43.9	46.6	48.6	50.0	50.7	50.6
-60	0.00	0.00	0.00	0.00	0.20	10.1	18.1	25.5	32.6	39.2	45.3	50.9	55.8	59.9	63.3	65.8	67.6	68.4	68.4
-55	0.00	0.00	0.00	0.00	5.23	16.6	25.8	34.5	42.8	50.6	57.7	64.1	69.8	74.6	78.5	81.5	83.5	84.6	84.6
-50	0.00	0.00	0.00	0.00	10.3	23.1	33.4	43.5	53.1	61.9	70.1	77.4	83.8	89.3	93.8	97.2	99.5	101	101
-45	0.00	0.00	0.00	2.64	15.9	28.9	40.5	51.7	62.2	72.1	81.0	89.1	96.2	102	107	111	114	115	115
-40	0.00	0.00	0.00	5.27	21.5	34.8	47.5	59.8	71.4	82.2	92.0	101	108	115	121	125	127	129	129
-35	0.00	0.00	0.00	9.16	25.1	39.3	53.0	66.3	78.7	90.2	101	110	118	126	131	136	139	141	141
-30	0.00	0.00	0.00	13.1	28.7	43.9	58.6	72.7	85.9	98.2	109	119	128	136	142	147	150	152	153
-25	0.00	0.00	0.67	15.6	31.7	47.7	63.0	77.8	91.6	104	116	127	136	144	151	156	159	161	161
-20	0.00	0.00	1.34	18.1	34.7	51.4	67.5	82.9	97.3	111	123	134	144	152	159	164	168	170	170
-15	0.00	0.00	2.41	19.1	36.3	53.5	70.0	85.8	101	114	127	138	148	157	164	170	173	176	176
-10	0.00	0.00	3.47	20.2	37.9	55.5	72.5	88.7	104	118	131	143	153	162	169	175	179	181	182
-5	0.00	0.00	3.98	21.0	38.8	56.6	73.7	90.1	105	120	133	144	155	164	171	177	181	183	184
0	0.00	0.00	4.49	21.7	39.7	57.7	75.0	91.5	107	121	134	146	157	166	173	179	183	186	186
5	0.00	0.00	4.09	21.2	39.1	56.9	74.1	90.5	106	120	133	145	156	165	172	178	182	184	185
10	0.00	0.00	3.70	20.6	38.5	56.2	73.2	89.5	105	119	132	144	154	163	171	176	180	183	183
15	0.00	0.00	3.25	19.7	37.1	54.4	71.1	87.0	102	116	129	140	150	159	166	172	176	178	178
20	0.00	0.00	2.79	18.8	35.7	52.6	68.9	84.5	99.1	113	125	136	146	155	162	167	171	173	173
25	0.00	0.00	1.41	16.8	32.9	49.1	64.7	79.8	93.8	107	119	130	139	147	154	159	163	165	165
30	0.00	0.00	0.03	14.7	30.1	45.6	60.6	75.0	88.5	101	113	123	132	140	146	151	155	156	157
35	0.00	0.00	0.02	12.3	26.7	41.2	55.3	68.9	81.6	93.4	104	114	122	130	136	140	144	145	146
40	0.00	0.00	0.00	9.90	23.3	36.8	50.1	62.8	74.7	85.8	95.9	105	113	120	125	130	133	134	134
45	0.00	0.00	0.00	6.75	18.8	31.1	43.2	54.8	65.7	75.9	85.3	93.7	101	107	112	116	119	121	121
50	0.00	0.00	0.00	3.60	14.4	25.4	36.3	46.8	56.8	66.1	74.6	82.3	89.1	94.7	99.4	103	106	107	107
55	0.00	0.00	0.00	1.80	9.68	19.2	28.6	37.7	46.5	54.7	62.4	69.2	75.3	80.3	84.5	87.6	89.8	90.9	91.0
60	0.00	0.00	0.00	0.00	5.00	13.0	20.9	28.6	36.2	43.4	50.1	56.2	61.5	65.9	69.5	72.2	74.1	74.9	75.0
65	0.00	0.00	0.00	0.00	2.50	6.51	12.8	19.0	25.1	30.9	36.5	41.5	46.1	49.9	52.9	55.1	56.6	57.3	57.2
70	0.00	0.00	0.00	0.00	0.00	0.02	4.77	9.46	14.0	18.5	22.9	26.9	30.6	33.8	36.3	38.0	39.2	39.7	39.5
75	0.00	0.00	0.00	0.00	0.00	0.01	2.38	4.73	7.01	9.24	11.4	13.5	15.3	17.3	19.1	20.5	21.3	21.6	21.4
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	0.72	1.86	2.87	3.44	3.51	3.29
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.:2023080035
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	16.0	15.4	14.5	13.4	12.0	10.4	8.59	6.62	4.54	2.34	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	32.1	30.8	29.1	26.8	24.0	20.8	17.2	13.2	9.08	4.68	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	49.8	48.3	46.1	43.3	39.8	35.7	31.1	26.1	20.6	14.9	8.91	4.98	1.29	0.00	0.00	0.00	0.00	0.00
-60	67.5	65.8	63.2	59.8	55.6	50.7	45.1	39.0	32.2	25.1	17.6	9.95	2.57	0.00	0.00	0.00	0.00	0.00
-55	83.7	81.7	78.8	75.0	70.2	64.7	58.3	51.2	43.5	35.2	26.4	17.5	8.54	2.14	0.00	0.00	0.00	0.00
-50	99.8	97.7	94.5	90.2	84.9	78.7	71.5	63.5	54.7	45.3	35.3	25.0	14.5	4.28	0.00	0.00	0.00	0.00
-45	114	112	108	103	97.7	90.8	83.0	74.2	64.6	54.2	43.1	31.6	19.9	8.29	0.01	0.00	0.00	0.00
-40	128	126	122	117	110	103	94.4	84.9	74.4	63.1	50.9	38.2	25.2	12.3	0.02	0.00	0.00	0.00
-35	140	137	133	128	121	113	104	93.9	82.7	70.7	57.8	44.1	30.1	16.1	2.66	0.00	0.00	0.00
-30	151	149	144	139	132	123	114	103	91.1	78.3	64.6	50.0	34.9	19.8	5.29	0.00	0.00	0.00
-25	160	157	153	147	140	131	121	109	97.0	83.6	69.3	54.1	38.3	22.4	7.03	0.00	0.00	0.00
-20	169	166	161	155	147	138	128	116	103	89.0	74.0	58.1	41.7	25.0	8.77	0.00	0.00	0.00
-15	175	172	167	160	152	143	132	120	107	92.6	77.3	61.0	44.1	26.9	10.2	0.00	0.00	0.00
-10	180	177	172	166	158	148	137	124	111	96.3	80.5	63.9	46.6	28.8	11.6	0.00	0.00	0.00
-5	182	179	174	168	159	150	138	126	112	97.4	81.5	64.7	47.1	29.3	11.8	0.00	0.00	0.00
0	185	181	176	170	161	151	140	127	113	98.6	82.6	65.4	47.7	29.7	12.0	0.00	0.00	0.00
5	183	180	175	168	160	150	139	126	113	97.8	81.9	65.0	47.4	29.5	11.9	0.00	0.00	0.00
10	182	179	174	167	159	149	138	126	112	97.1	81.2	64.5	47.0	29.2	11.8	0.00	0.00	0.00
15	177	174	169	162	154	145	134	122	108	93.9	78.4	61.9	44.8	27.5	10.5	0.00	0.00	0.00
20	172	169	164	158	150	140	130	118	105	90.7	75.5	59.3	42.6	25.7	9.20	0.00	0.00	0.00
25	164	161	156	150	143	134	123	112	99.3	85.7	71.1	55.6	39.5	23.3	7.61	0.00	0.00	0.00
30	156	153	148	143	135	127	117	106	93.9	80.7	66.7	51.8	36.5	21.0	6.01	0.00	0.00	0.00
35	144	142	138	132	125	117	108	97.4	86.0	73.5	60.2	46.2	31.8	17.3	3.54	0.00	0.00	0.00
40	133	131	127	122	115	107	98.7	88.8	78.0	66.3	53.8	40.6	27.1	13.7	1.07	0.00	0.00	0.00
45	120	117	114	109	103	95.7	87.6	78.5	68.5	57.7	46.2	34.1	21.9	9.81	0.54	0.00	0.00	0.00
50	106	104	100	96.0	90.5	83.9	76.5	68.1	59.0	49.1	38.6	27.7	16.7	5.89	0.00	0.00	0.00	0.00
55	89.9	87.9	84.9	80.9	75.9	70.0	63.3	55.8	47.7	38.9	29.7	20.2	10.6	2.95	0.00	0.00	0.00	0.00
60	74.0	72.2	69.4	65.8	61.3	56.1	50.2	43.6	36.4	28.8	20.8	12.7	4.60	0.00	0.00	0.00	0.00	0.00
65	56.4	54.8	52.4	49.3	45.5	41.1	36.1	30.6	24.7	18.4	11.9	6.33	2.30	0.00	0.00	0.00	0.00	0.00
70	38.7	37.4	35.4	32.8	29.7	26.1	22.1	17.7	13.0	8.05	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	20.8	19.7	18.2	16.4	14.9	13.1	11.0	8.83	6.49	4.03	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	2.80	2.03	1.03	0.00	0.00	0.00	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:30.0DEG
 Operators:QC1
 Test Date:2023-08-25

$V(\beta)$ Range:-80 - 80DEG
 $V(\beta)$ Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:44%
 Test Distance:8.300m [K=1.0000]
 Remarks: