

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	286.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	151.0V x 180.0H
	At 50% of Imax	111.9V x 146.3H
	At 90% of Imax	53.4V x 59.7H

Beam Flux	Total	995.4 lumens per klm.
	To 10% of Imax	992.1 lumens per klm.
	To 50% of Imax	797.6 lumens per klm.
	To 90% of Imax	209.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.5 %

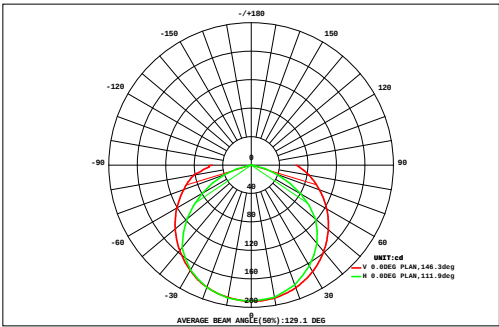
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

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:0.1297A P:27.46W PF:0.9609 Lamp Flux:666.714x1 lm		
NAME: 8.02.019.0091 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080122
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:24.28lm/W	
MODELLS-OP-W30A-L12-RDM	Imax(cd)	191.3	
NOMINAL POWER(W)	28	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	665.7
NOMINAL FLUX(lm)	666.714	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	666.7
TEST VOLTAGE(V)	220.4	θ @50%(H,V)	146,112DEG

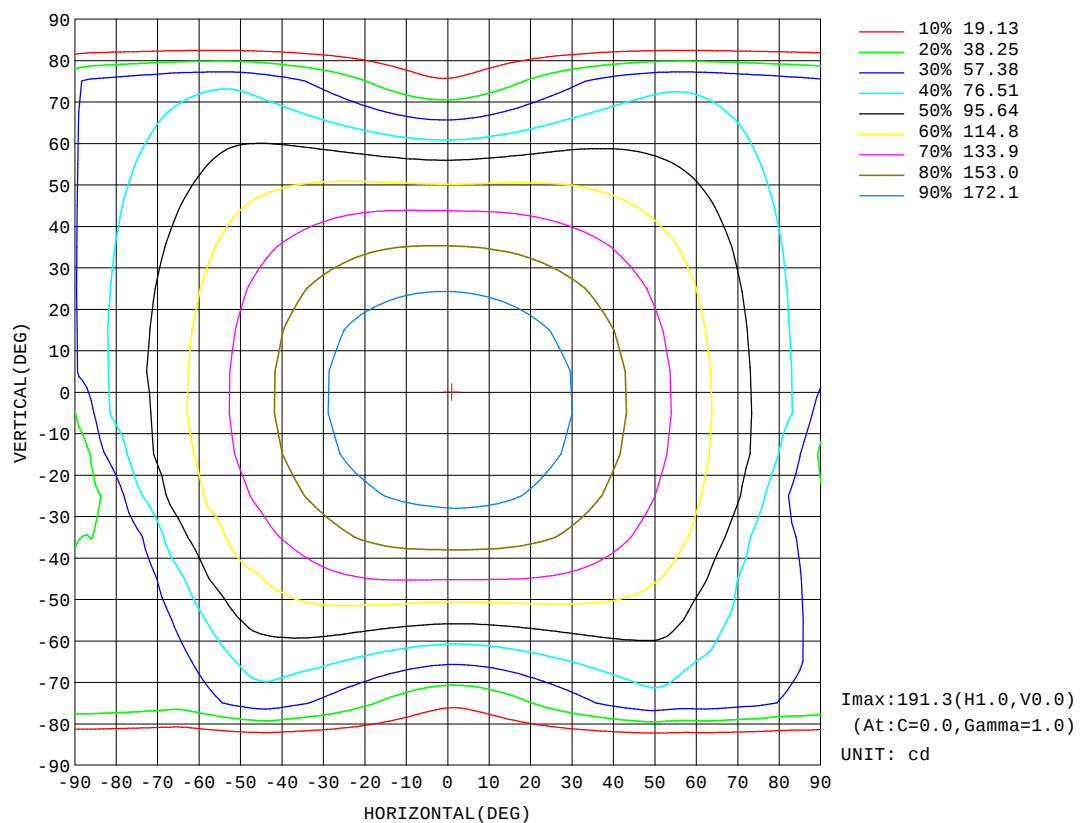
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.20	0.64	1.12	1.54	1.75	1.67	1.37	0.94	0.56	0.61	1.01	1.44	1.71	1.76	1.55	1.12	0.65	0.21	19.9	19.5
70	0.17	0.57	1.04	1.53	1.87	2.03	2.03	1.93	1.83	1.85	1.97	2.07	2.04	1.83	1.48	1.04	0.58	0.18	26.0	26.0
60	0.18	0.61	1.14	1.72	2.24	2.63	2.88	3.00	3.03	3.04	3.01	2.88	2.59	2.16	1.67	1.13	0.61	0.18	34.7	34.7
50	0.18	0.65	1.23	1.89	2.54	3.13	3.60	3.90	4.02	4.01	3.86	3.52	3.05	2.48	1.85	1.22	0.65	0.19	42.0	42.0
40	0.19	0.68	1.30	2.04	2.80	3.50	4.08	4.49	4.68	4.66	4.44	4.03	3.45	2.76	2.02	1.31	0.68	0.19	47.3	47.3
30	0.19	0.70	1.36	2.15	3.00	3.79	4.48	4.96	5.20	5.19	4.93	4.45	3.77	2.98	2.16	1.37	0.71	0.20	51.6	51.6
20	0.20	0.72	1.41	2.23	3.13	4.00	4.76	5.30	5.57	5.57	5.29	4.75	4.00	3.14	2.25	1.42	0.72	0.20	54.6	54.6
10	0.19	0.73	1.43	2.27	3.18	4.08	4.89	5.46	5.76	5.76	5.48	4.91	4.13	3.23	2.30	1.45	0.73	0.20	56.2	56.2
0	0.18	0.72	1.43	2.28	3.19	4.09	4.89	5.46	5.76	5.77	5.48	4.92	4.14	3.23	2.31	1.45	0.74	0.20	56.2	56.2
-10	0.15	0.68	1.40	2.23	3.13	4.01	4.79	5.34	5.63	5.65	5.37	4.83	4.07	3.19	2.28	1.44	0.73	0.17	55.1	55.1
-20	0.10	0.59	1.32	2.13	2.99	3.82	4.55	5.08	5.35	5.37	5.12	4.61	3.90	3.06	2.20	1.40	0.67	0.14	52.4	52.4
-30	0.11	0.43	1.18	1.97	2.76	3.51	4.17	4.65	4.89	4.90	4.70	4.26	3.62	2.87	2.09	1.31	0.57	0.15	48.1	48.1
-40	0.12	0.39	0.93	1.78	2.48	3.13	3.66	4.00	4.15	4.14	3.99	3.69	3.21	2.61	1.93	1.15	0.55	0.16	42.1	42.1
-50	0.13	0.39	0.79	1.49	2.17	2.65	2.94	3.04	3.05	3.02	2.98	2.87	2.64	2.27	1.72	1.02	0.56	0.16	33.9	33.9
-60	0.14	0.40	0.68	1.21	1.82	2.05	2.09	2.00	1.88	1.85	1.93	2.01	1.99	1.85	1.45	0.95	0.53	0.16	25.0	25.0
-70	0.13	0.38	0.60	0.99	1.41	1.46	1.31	1.02	0.74	0.69	0.92	1.20	1.39	1.43	1.18	0.86	0.49	0.15	16.3	16.0
-80	0.07	0.18	0.27	0.42	0.56	0.53	0.39	0.17	0.02	0.01	0.12	0.33	0.50	0.57	0.50	0.38	0.21	0.07	5.31	4.96
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)	20	30	40	50	60	70	80	90			
Φ t	2.63	9.45	18.6	29.9	41.0	50.1	56.9	60.7	62.1	62.1	60.6	56.8	50.2	41.4	30.9	20.0	10.4	2.90	667	---
Φ a	2.63	9.45	18.6	29.9	41.0	50.1	56.8	60.5	61.9	61.8	60.4	56.7	50.2	41.4	30.9	20.0	10.4	2.90	---	666

one-half-peak spread: U:56.2,D:56.2 , L:74.5,R:72.8 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26
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:0.1297A P:27.46W PF:0.9609 Lamp Flux:666.714x1 lm		
NAME: 8.02.019.0091 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080122
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

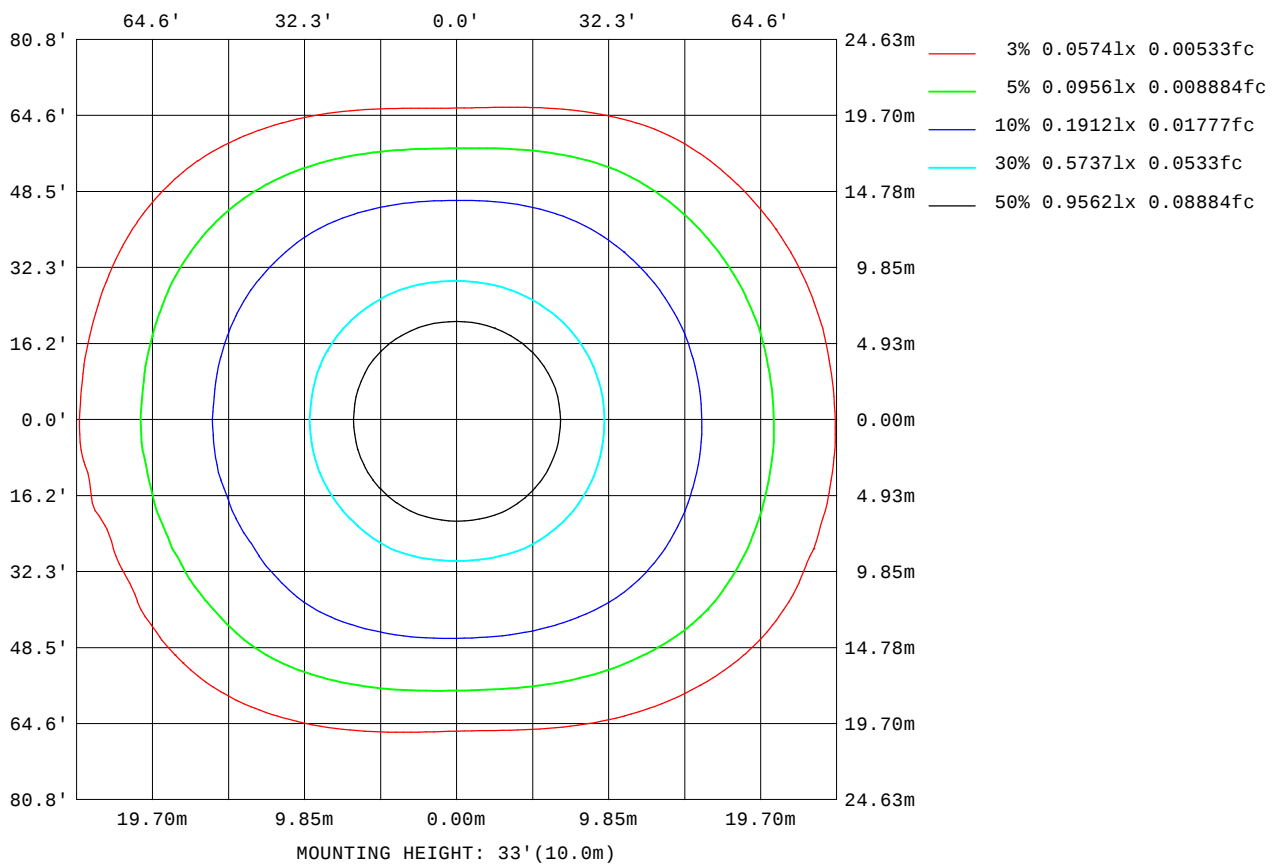


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.4V I:0.1297A P:27.46W PF:0.9609 Lamp Flux:666.714x1 lm		
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DIM.:	SPEC.:	SERIAL No.:2024080122
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

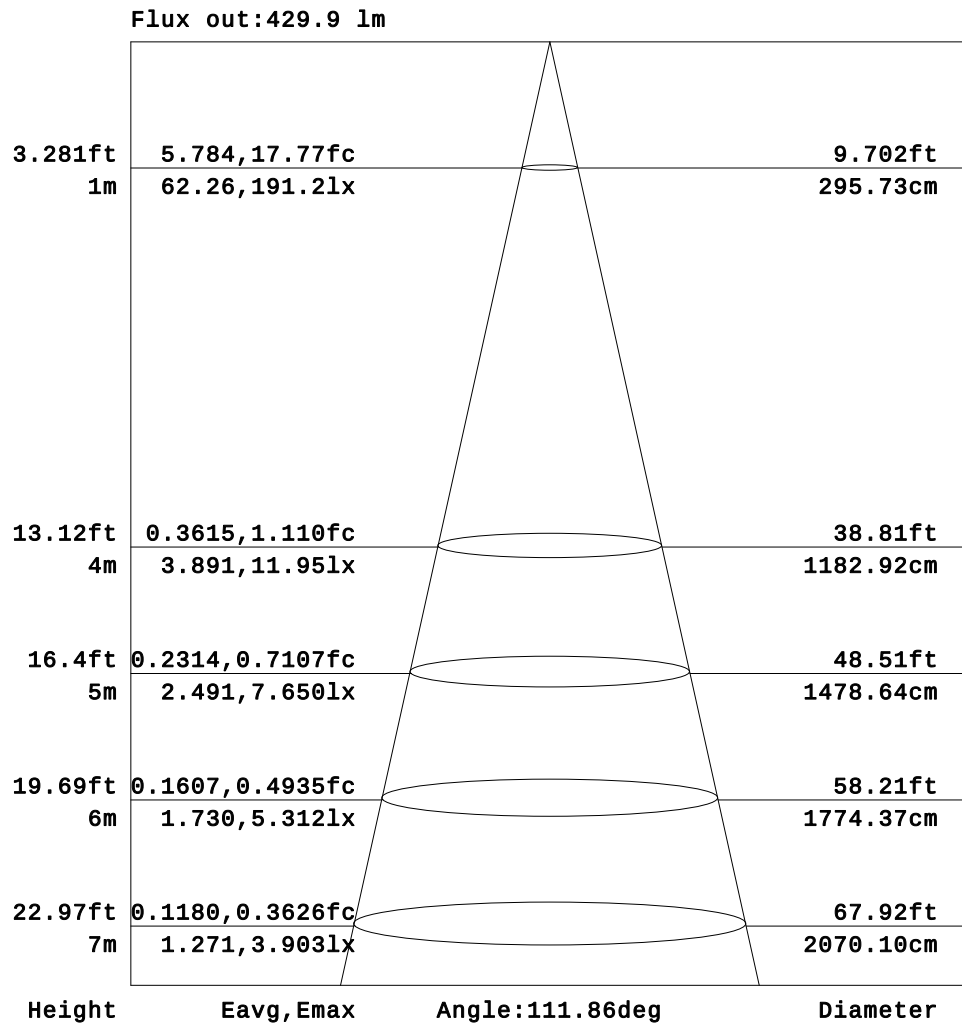


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-26

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:

AAI Figure

Test:U:220.4V I:0.1297A P:27.46W PF:0.9609 Lamp Flux:666.714x1 lm		
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DIM.:	SPEC.:	SERIAL No.:2024080122
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

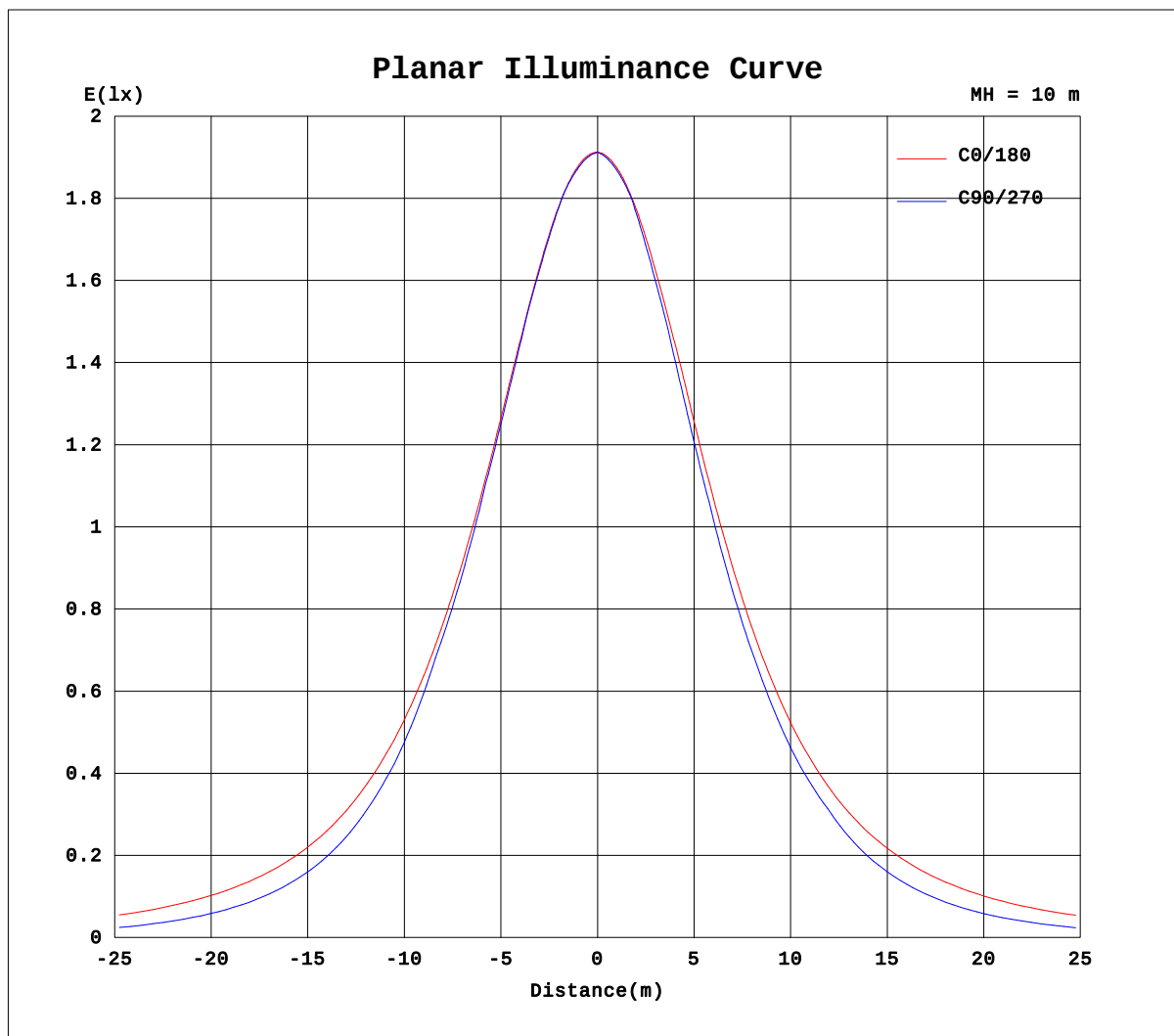


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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Operators:QC1
Test Date:2024-08-26

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:

Planar Illuminance Curve



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Test Date:2024-08-26

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.1297A P:27.46W PF:0.9609 Lamp Flux:666.714x1 lm		
NAME: 8.02.019.0091 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080122
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	51.8	51.1	49.2	47.4	45.4	42.9	45.5	50.6	55.1	57.3	54.3	48.1	42.0	34.8	27.2	19.6	12.4	6.42	3.24
-75	51.7	51.3	50.0	48.5	46.8	45.2	50.1	56.6	62.8	66.9	64.1	58.9	54.0	47.9	41.5	35.1	29.2	24.3	21.8
-70	51.6	51.5	50.8	49.6	48.3	47.6	54.7	62.6	70.5	76.5	73.8	69.6	66.0	61.0	55.9	50.7	45.9	42.2	40.3
-65	51.1	51.5	51.0	50.0	49.2	51.7	60.5	69.5	78.5	85.2	84.4	82.1	79.5	75.8	72.0	68.1	64.6	61.8	60.3
-60	50.7	51.4	51.2	50.4	50.2	55.9	66.3	76.4	86.6	93.8	95.1	94.7	93.0	90.7	88.1	85.5	83.2	81.3	80.2
-55	49.9	49.5	49.8	49.8	51.8	60.8	72.6	84.8	95.6	101	104	106	106	106	104	103	101	99.9	99.1
-50	49.1	47.6	48.4	49.2	53.4	65.8	78.8	93.2	105	108	112	117	120	121	120	120	119	119	118
-45	45.0	43.9	46.4	49.0	57.9	72.2	87.7	101	110	114	120	125	129	132	134	135	135	135	135
-40	40.9	40.3	44.5	48.8	62.3	78.5	96.6	109	116	120	128	134	139	143	147	149	151	151	152
-35	35.8	39.0	44.5	53.3	70.0	90.1	103	112	121	127	135	140	146	151	155	158	160	161	161
-30	30.8	37.8	44.5	57.8	77.7	102	110	115	126	134	141	147	153	159	163	166	169	170	171
-25	29.5	36.4	49.1	72.4	87.1	102	112	120	130	138	146	152	159	164	169	172	175	176	177
-20	28.2	34.9	53.6	87.0	96.6	103	115	126	134	143	150	158	164	170	175	178	181	182	183
-15	23.8	43.6	66.4	86.7	98.5	107	117	127	136	145	153	160	167	173	178	181	184	185	186
-10	19.5	52.2	79.3	86.4	100	110	120	129	138	147	155	163	170	176	181	184	187	189	190
-5	37.3	59.7	80.7	89.1	101	111	120	130	139	148	156	164	171	177	182	185	188	190	190
0	55.2	67.2	82.1	91.7	101	111	121	130	139	148	156	164	171	178	182	186	189	190	191
5	53.9	69.1	81.5	91.1	101	110	120	129	139	147	156	163	170	177	182	185	188	189	190
10	52.5	70.9	81.0	90.5	99.9	109	119	129	138	147	155	162	169	176	181	184	187	188	189
15	53.7	70.7	80.6	89.9	99.1	108	118	127	136	145	153	160	166	172	177	180	182	183	184
20	54.9	70.5	80.1	89.2	98.3	107	117	126	135	143	150	157	163	169	173	176	177	179	179
25	54.8	70.0	79.2	87.9	96.7	105	114	123	131	139	146	152	157	162	166	168	170	171	171
30	54.8	69.4	78.3	86.7	95.0	103	112	120	128	135	141	147	151	156	159	161	163	163	164
35	54.6	68.6	77.1	85.0	92.9	101	109	117	124	130	135	140	144	147	150	152	153	154	154
40	54.4	67.7	75.9	83.3	90.8	98.1	106	113	119	125	129	133	137	139	142	143	144	144	144
45	54.4	66.5	74.3	81.3	88.1	94.9	102	108	114	118	122	125	127	129	131	131	131	131	131
50	54.4	65.4	72.6	79.2	85.5	91.7	97.8	104	108	111	114	116	118	119	120	119	119	119	118
55	54.4	64.2	71.0	77.0	82.5	88.0	93.4	98.4	102	104	105	105	105	104	103	102	101	99.6	99.3
60	54.4	63.1	69.3	74.8	79.5	84.2	88.9	93.3	95.8	96.5	96.0	94.3	92.1	89.5	86.9	84.4	82.3	80.7	80.3
65	54.6	62.5	67.5	72.2	76.3	80.3	84.0	87.3	88.4	87.2	84.9	81.8	78.2	74.2	70.2	66.3	62.9	60.5	59.9
70	54.8	61.9	65.8	69.7	73.2	76.5	79.2	81.3	81.1	77.9	73.9	69.3	64.3	58.9	53.4	48.1	43.5	40.4	39.5
75	54.5	61.0	63.6	66.3	69.2	71.7	73.1	73.8	72.9	69.0	63.9	58.3	52.0	45.4	38.6	31.9	26.0	21.8	20.5
80	54.1	60.1	61.4	63.0	65.2	67.0	67.1	66.4	64.7	60.1	54.0	47.2	39.8	31.9	23.7	15.7	8.50	3.13	1.53
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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 Remarks:

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DIM.:	SPEC.:	SERIAL No.:2024080122
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	4.34	9.13	15.8	23.3	30.9	38.4	45.5	52.1	58.1	61.4	59.6	61.7	61.9	58.7	56.9	54.1	53.8	53.6
-75	22.6	26.3	31.7	37.9	44.3	50.6	56.5	62.1	67.1	70.2	67.0	66.9	66.4	63.7	61.5	57.0	55.6	53.5
-70	40.8	43.5	47.6	52.5	57.7	62.7	67.6	72.0	76.0	79.1	74.4	72.1	70.9	68.7	66.1	59.9	57.4	53.4
-65	60.6	62.5	65.6	69.2	73.0	76.7	80.1	83.2	85.8	87.6	83.0	76.3	73.8	70.7	67.6	62.3	57.8	54.1
-60	80.3	81.6	83.5	85.9	88.3	90.6	92.7	94.4	95.6	96.2	91.6	80.5	76.7	72.7	69.0	64.6	58.3	54.8
-55	99.1	99.9	101	102	104	105	105	106	105	103	98.9	88.0	78.9	74.2	69.9	65.2	58.1	54.0
-50	118	118	119	119	119	119	118	117	114	110	106	95.4	81.1	75.8	70.7	65.8	57.9	53.3
-45	135	135	134	134	132	131	128	125	121	116	111	102	88.1	76.4	70.0	64.9	58.0	51.7
-40	151	151	150	148	146	142	138	133	128	122	115	108	95.2	77.1	69.3	63.9	58.0	50.1
-35	161	160	159	157	154	150	145	139	133	126	119	112	101	86.0	71.3	61.9	56.1	47.6
-30	171	170	168	165	162	157	151	145	138	131	123	115	106	95.0	73.3	59.8	54.3	45.1
-25	177	176	174	171	167	162	156	149	142	134	126	117	108	97.7	82.1	64.4	49.7	40.1
-20	183	182	179	176	172	166	160	153	145	137	128	119	110	100	90.9	69.0	45.2	35.1
-15	186	185	182	179	175	169	163	155	148	139	130	121	111	101	91.7	75.9	57.8	34.0
-10	189	188	185	182	177	172	165	158	150	141	132	122	112	102	92.5	82.8	70.4	32.9
-5	190	189	186	183	178	172	166	158	150	141	132	122	112	102	92.4	82.8	71.6	48.1
0	191	190	187	183	178	173	166	158	150	141	132	122	112	102	92.3	82.7	72.9	63.2
5	190	188	186	182	177	172	165	158	149	141	131	122	112	102	91.8	82.3	72.7	63.0
10	188	187	184	181	176	170	164	157	149	140	131	121	111	101	91.4	82.0	72.4	62.7
15	183	182	180	176	172	166	160	153	145	137	128	119	110	99.9	90.4	81.2	71.9	62.6
20	178	177	175	172	167	162	156	150	142	135	126	117	108	98.7	89.5	80.5	71.4	62.4
25	171	169	167	165	161	156	151	145	138	131	123	115	106	97.2	88.4	79.8	71.1	62.3
30	163	162	160	158	154	150	146	140	134	127	120	112	104	95.7	87.3	79.1	70.8	62.3
35	153	152	151	149	146	142	138	133	128	122	116	109	101	93.3	85.5	77.7	69.9	62.0
40	143	143	142	140	137	134	131	127	122	117	111	105	98.2	90.9	83.7	76.3	69.0	61.7
45	131	131	130	129	127	125	122	119	115	111	106	101	94.7	88.1	81.5	74.8	68.1	61.4
50	118	119	119	118	117	115	113	111	108	105	101	96.6	91.2	85.2	79.4	73.3	67.2	61.1
55	99.8	101	102	103	104	104	104	102	100	98.1	95.4	92.0	87.4	82.3	77.1	71.7	66.3	60.9
60	81.2	83.1	85.5	88.2	90.9	93.0	93.8	93.7	92.9	91.7	90.0	87.5	83.7	79.5	74.7	70.1	65.5	60.8
65	61.2	63.9	67.5	71.6	75.6	79.3	82.1	84.2	85.2	85.3	84.7	83.1	80.1	76.5	72.6	68.8	64.9	60.9
70	41.1	44.8	49.6	54.9	60.3	65.6	70.5	74.7	77.5	79.0	79.5	78.7	76.6	73.5	70.5	67.4	64.2	60.9
75	22.9	27.7	33.8	40.5	47.1	53.5	59.4	64.8	69.1	72.3	73.7	73.3	71.8	69.7	67.5	65.3	62.9	60.5
80	4.65	10.7	18.1	26.0	33.9	41.4	48.4	54.9	60.8	65.6	67.9	68.0	67.1	65.9	64.6	63.2	61.6	60.0
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:2024-08-26

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: