

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

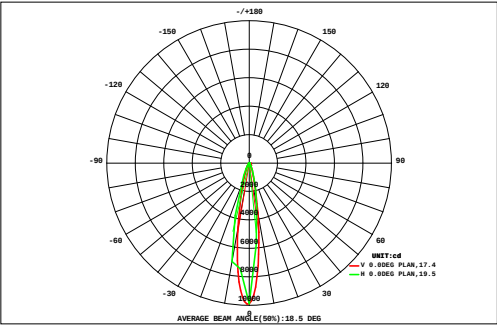
Maximum Intensity (Luminaire orientation as tested.)		5410.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	43.2V x 39.2H
	At 50% of Imax	19.5V x 17.4H
	At 90% of Imax	4.5V x 6.8H
Beam Flux	Total	998.9 lumens per klm.
	To 10% of Imax	697.7 lumens per klm.
	To 50% of Imax	316.2 lumens per klm.
	To 90% of Imax	34.0 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:2025-01-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.00V I:2.985A P:35.81W PF:1.000 Freq:0Hz Lamp Flux:1828.04x1 lm		
NAME: 8.04.009.0001 20° LPL-OP-D80-L10-RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010038
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:51.04lm/W	
MODEL LPL-OP-D80-L10-RGB	Imax(cd)	9891	
NOMINAL POWER(W)	36	AVAILABILITY(%)	71.9
RATED VOLTAGE(V)	12	Avai. FLUX(lm)	1315
NOMINAL FLUX(lm)	1828.04	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1828
TEST VOLTAGE(V)	12	θ @50%(H,V)	17,19DEG

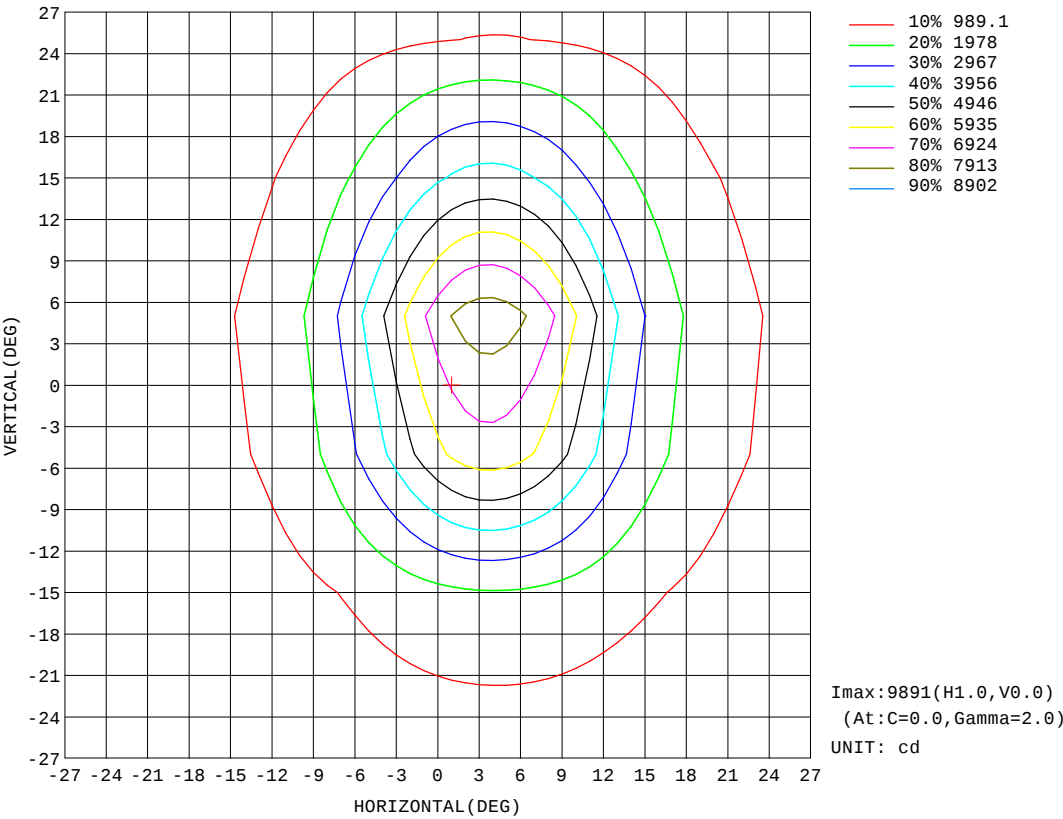
AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a
27	0.43	0.52	0.64	0.79	0.98	1.21	1.46	1.70	1.90	2.00	2.00	1.88	1.68	1.44	1.18	0.95	0.75	0.59	22.1	2.85	
24	0.41	0.52	0.67	0.89	1.20	1.59	2.07	2.59	3.08	3.43	3.53	3.38	3.02	2.57	2.12	1.67	1.29	0.98	35.0	18.0	
21	0.56	0.74	1.00	1.37	1.85	2.44	3.10	3.73	4.22	4.42	4.27	3.86	3.30	2.71	2.14	1.64	1.24	0.92	43.5	29.0	
18	0.72	0.98	1.36	1.88	2.56	3.36	4.19	4.94	5.41	5.42	4.99	4.28	3.50	2.78	2.09	1.56	1.14	0.82	52.0	39.0	
15	0.54	0.74	1.04	1.52	2.21	3.27	5.08	7.79	10.9	13.4	14.0	12.5	9.72	6.75	4.62	3.21	2.32	1.66	101	92.0	
12	0.65	0.92	1.35	2.01	3.01	4.71	7.56	11.5	15.5	18.0	17.7	15.0	11.1	7.47	5.03	3.48	2.49	1.76	129	121	
9	1.03	1.53	2.32	3.45	5.23	8.46	13.4	19.0	23.0	23.1	19.6	14.1	8.84	5.56	3.69	2.63	1.82	1.25	158	150	
VERTICAL (DEG)	0.80	1.16	1.73	2.60	3.89	6.13	10.0	15.4	20.8	24.0	23.4	19.5	14.0	9.00	5.70	3.74	2.58	1.79	166	159	
	0.52	0.70	1.01	1.54	2.23	3.24	5.82	10.7	17.6	24.4	27.2	25.4	19.8	12.9	7.97	4.99	3.45	2.40	172	165	
	1.05	1.57	2.39	3.54	5.60	9.89	16.3	23.4	28.5	28.3	23.9	17.0	10.3	6.18	3.89	2.74	1.91	1.32	188	179	
	1.00	1.48	2.23	3.30	5.19	9.09	14.9	21.3	25.9	25.8	21.8	15.6	9.57	5.89	3.80	2.70	1.90	1.32	173	164	
	0.46	0.58	0.78	1.12	1.45	1.57	2.25	4.24	7.73	12.0	14.5	14.5	12.2	8.58	5.79	3.87	2.73	1.95	96.3	86.9	
	0.61	0.80	1.10	1.55	2.04	2.50	3.28	4.10	5.47	7.07	7.77	7.52	6.47	4.95	3.63	2.58	1.86	1.33	64.6	54.4	
	0.80	1.09	1.52	2.13	2.88	3.66	4.35	4.57	3.85	2.25	1.09	0.55	0.50	0.84	1.14	1.09	0.85	0.62	33.8	20.2	
	0.41	0.51	0.64	0.82	1.10	1.47	1.88	2.47	3.28	4.07	4.54	4.44	3.89	3.18	2.54	2.00	1.53	1.15	39.9	25.1	
	0.36	0.41	0.47	0.55	0.69	0.85	0.96	1.16	1.62	2.27	2.86	3.06	2.85	2.42	1.99	1.60	1.25	0.96	26.3	9.95	
	0.49	0.59	0.71	0.87	1.02	1.16	1.26	1.23	1.04	0.80	0.64	0.60	0.63	0.63	0.58	0.49	0.41	0.35	13.5	0.00	
0.38	0.44	0.52	0.61	0.71	0.80	0.88	0.90	0.83	0.85	0.89	0.89	0.84	0.76	0.68	0.60	0.51	0.43	12.5	0.00		
-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL (DEG)					6	9	12	15	18	21	24	27	
Φ t	11.2	15.3	21.5	30.5	43.8	65.4	98.8	141	181	202	195	164	122	84.6	58.6	41.6	30.0	21.6	1527	---	
Φ a	0.00	0.00	3.19	11.7	25.2	55.3	88.8	132	174	197	191	160	118	76.4	44.4	25.1	11.4	1.18	---	1315	

one-half-peak spread: U:6.1,D:13.6 , L:9.0,R:8.6 NEMA Beam Type: Type 3

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-01-17
V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:12.00V I:2.985A P:35.81W PF:1.000 Freq:0Hz Lamp Flux:1828.04x1 lm		
NAME: 8.04.009.0001 20° LPL-OP-D80-L10-RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010038
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

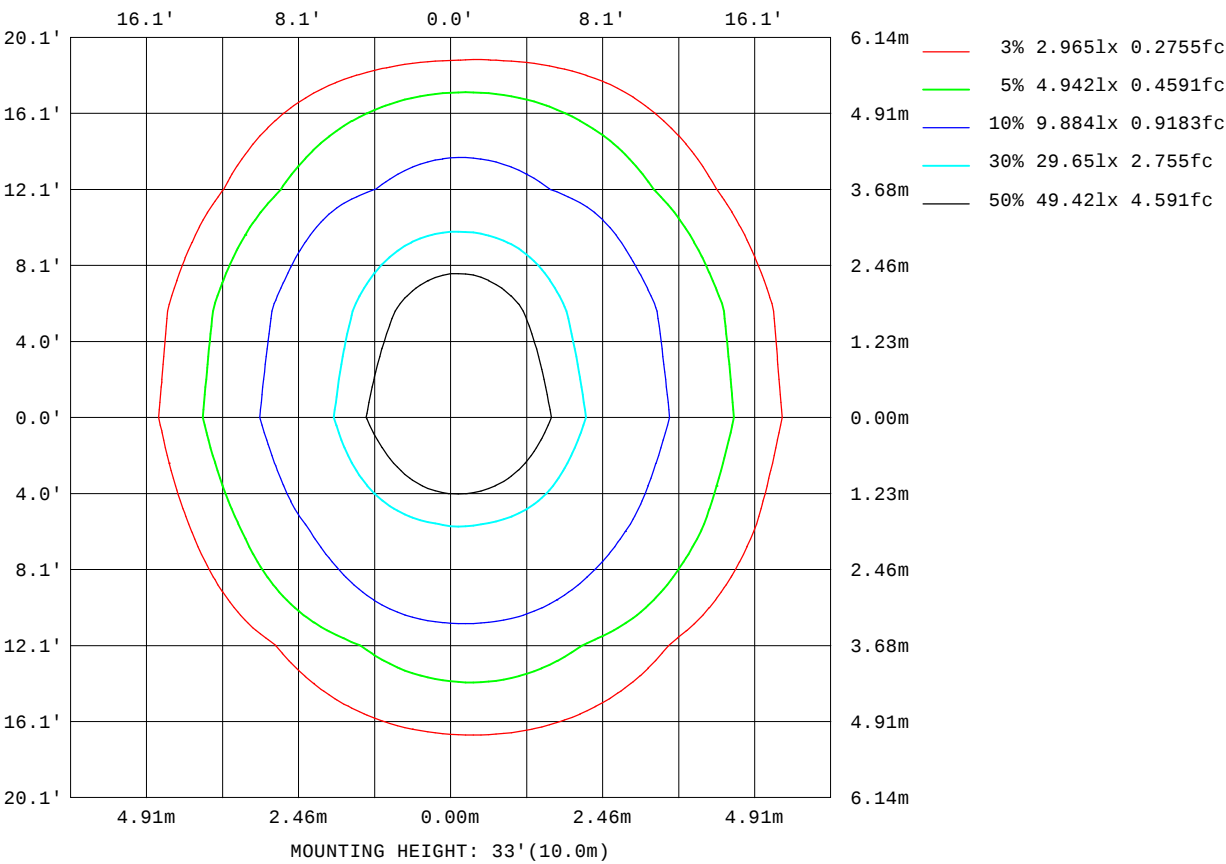


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V(B) Interval: 5.0DEG
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Humidity:83%
Test Distance:8.300m [K=1.0000]
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ISOLUX DIAGRAM

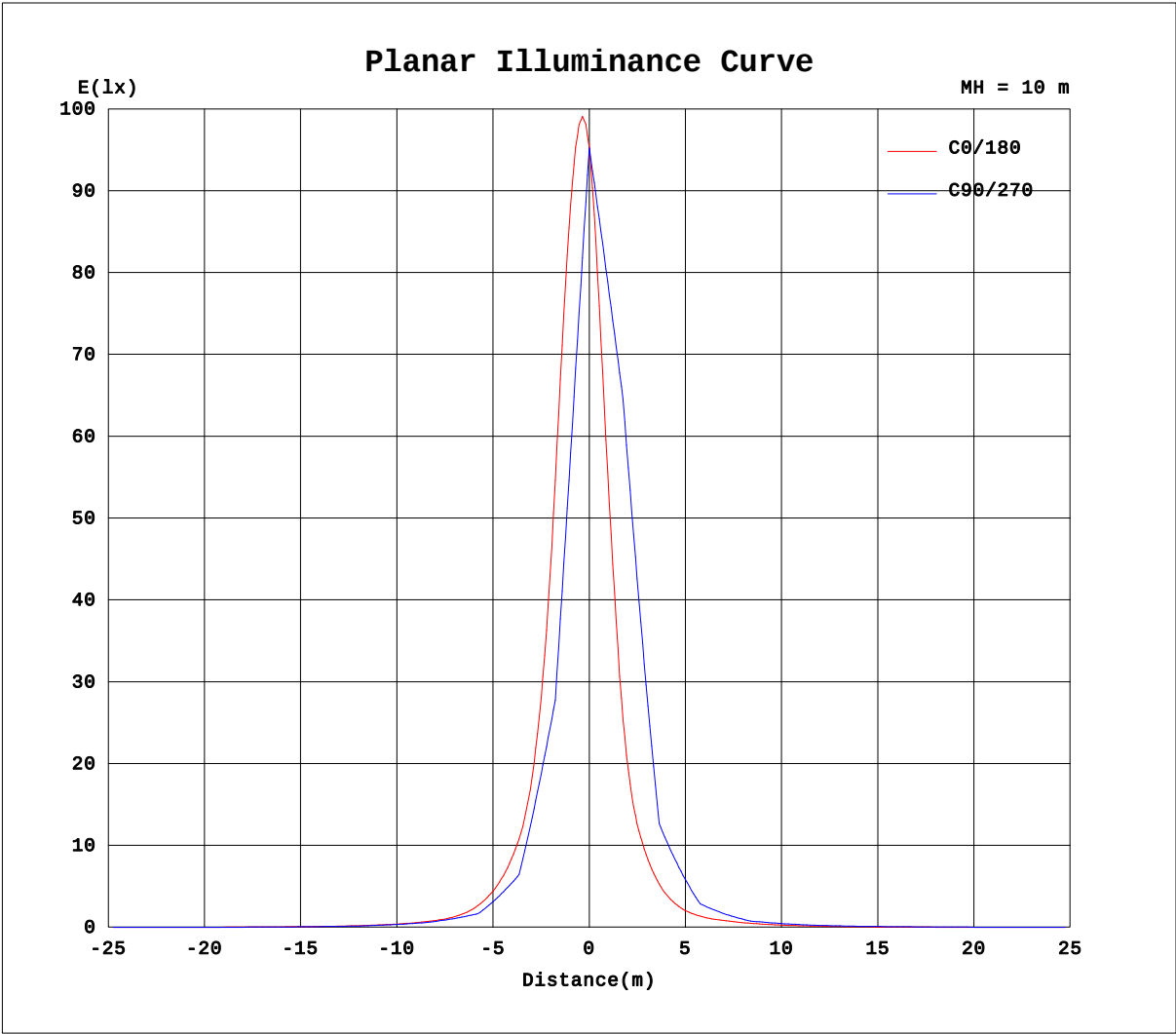
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Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

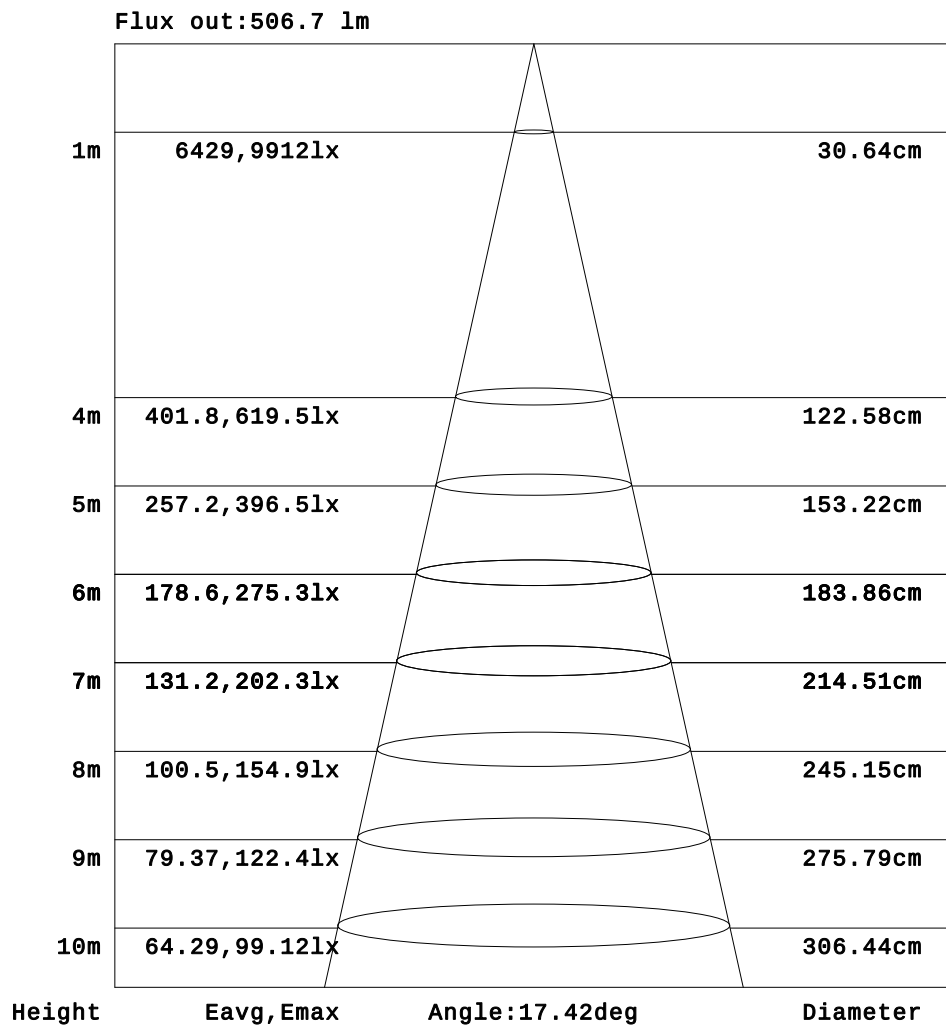


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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
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AAI Figure

Test:U:12.00V I:2.985A P:35.81W PF:1.000 Freq:0Hz Lamp Flux:1828.04x1 lm		
NAME: 8.04.009.0001 20° LPL-OP-D80-L10-RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010038
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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

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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-01-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:2.985A P:35.81W PF:1.000 Freq:0Hz Lamp Flux:1828.04x1 lm		
NAME: 8.04.009.0001 20° LPL-OP-D80-L10-RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010038
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	1.08	2.03	1.78	2.07	3.01	2.92	2.70	3.31	
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	3.73	3.87	3.66	5.29	6.17	5.40	5.92	7.44	
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	4.91	6.84	8.01	10.8	13.8	14.7	15.8	18.2	19.1	19.3	20.6	
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.51	7.44	12.5	15.0	17.9	22.0	25.1	26.8	29.2	31.9	32.8	34.0	35.2	
-55	0.00	0.00	0.00	0.00	0.00	0.14	3.84	8.73	15.1	20.2	24.2	28.5	33.6	37.5	40.9	45.0	48.4	50.6	52.7	
-50	0.00	0.00	0.00	0.00	0.00	4.67	11.6	18.1	24.3	30.3	35.4	41.1	47.2	52.3	57.5	62.7	66.5	69.9	71.3	
-45	0.00	0.00	0.00	0.00	0.00	3.14	12.0	19.3	26.0	33.2	40.4	47.3	55.3	63.7	72.5	81.5	89.4	96.8	104	
-40	0.00	0.00	0.00	0.00	1.59	12.3	20.9	28.5	36.2	44.9	53.5	63.0	73.5	85.7	98.4	110	121	133	139	
-35	0.00	0.00	0.00	0.00	0.50	9.24	18.8	27.1	35.8	45.3	56.2	68.7	83.4	99.2	116	135	155	177	197	
-30	0.00	0.00	0.00	0.00	7.86	17.9	26.8	36.1	46.2	58.7	73.2	91.7	112	133	156	184	216	246	266	
-25	0.00	0.00	0.00	0.00	3.60	14.0	23.7	33.4	44.1	56.5	72.6	92.7	116	145	185	243	326	422	506	
-20	0.00	0.00	0.00	2.36	11.9	21.7	32.2	43.5	56.3	72.5	95.2	122	153	203	278	398	551	707	799	
-15	0.00	0.00	0.00	0.00	7.29	17.0	27.3	38.2	50.8	66.3	88.6	116	150	204	302	482	776	1208	1732	
-10	0.00	0.00	0.00	3.68	14.5	24.5	35.1	47.6	63.0	85.0	114	149	204	309	515	895	1472	2363	3016	
-5	0.00	0.00	0.00	0.00	8.89	19.1	29.5	40.8	54.8	73.2	100	134	179	265	452	829	1574	3351	5714	
0	0.00	0.00	0.00	4.83	15.7	26.0	37.1	50.0	66.8	92.3	125	167	242	412	781	1489	3525	7222	9876	
5	0.00	0.00	0.00	0.00	8.86	19.2	29.7	41.1	55.1	74.1	102	137	186	281	500	951	1874	4248	7457	
10	0.00	0.00	0.00	3.89	14.5	24.8	35.6	48.1	64.1	88.0	118	158	227	372	688	1285	2675	5194	7015	
15	0.00	0.00	0.00	0.00	7.44	17.5	27.7	38.7	51.7	68.5	92.7	123	163	234	383	680	1229	2363	3831	
20	0.00	0.00	0.00	2.39	12.5	22.4	32.6	44.1	58.1	76.9	102	130	172	247	390	632	979	1345	1565	
25	0.00	0.00	0.00	0.00	5.00	14.7	24.4	34.4	45.6	59.1	77.4	100	128	166	232	346	522	747	949	
30	0.00	0.00	0.00	0.25	9.27	18.6	28.1	37.8	48.6	61.9	79.8	102	126	154	198	256	331	406	453	
35	0.00	0.00	0.00	0.00	2.04	11.5	20.0	28.5	37.5	48.0	60.7	76.4	95.1	116	141	174	214	261	302	
40	0.00	0.00	0.00	0.00	6.29	14.8	22.1	29.9	38.5	48.7	59.8	73.1	89.0	106	122	138	154	169	177	
45	0.00	0.00	0.00	0.00	0.32	7.06	14.1	20.8	28.4	36.9	45.7	55.0	66.2	78.2	90.6	103	115	126	135	
50	0.00	0.00	0.00	0.00	0.86	8.25	13.9	20.7	28.3	35.7	42.4	50.0	57.8	65.6	73.9	82.0	89.4	95.5	97.9	
55	0.00	0.00	0.00	0.00	0.00	2.07	6.29	12.2	18.9	24.7	30.2	36.2	42.7	48.5	54.3	60.7	66.3	71.3	74.6	
60	0.00	0.00	0.00	0.00	0.00	0.23	5.41	11.8	16.7	20.4	24.9	30.3	34.8	38.2	42.4	46.4	49.3	51.8	53.0	
65	0.00	0.00	0.00	0.00	0.00	0.00	1.05	3.98	7.69	11.0	14.3	18.7	22.7	25.0	28.1	31.7	34.1	36.1	38.2	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	3.12	5.35	8.75	12.4	13.6	15.1	18.2	20.1	21.1	23.0	24.1	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	2.00	3.27	5.23	6.55	6.97	8.16	9.60	10.2	10.9	11.9	
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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Humidity:83%
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SPEC.:	DIM.:	SERIAL No.:2025010038
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	3.62	2.88	2.88	3.58	2.82	2.09	2.71	2.76	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	6.38	5.41	6.74	6.69	4.48	4.61	6.05	2.86	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	21.1	19.6	19.0	19.3	17.0	15.1	15.0	13.2	9.13	7.76	6.36	3.05	0.00	0.00	0.00	0.00	0.00	0.00
-60	34.1	32.5	31.9	29.7	26.7	25.4	22.6	18.2	15.8	14.6	8.88	1.11	0.00	0.00	0.00	0.00	0.00	0.00
-55	53.1	51.3	49.0	46.6	42.2	38.4	34.9	29.7	24.8	21.8	17.4	10.9	4.93	1.22	0.00	0.00	0.00	0.00
-50	70.2	67.3	63.5	58.4	52.9	47.7	41.2	34.9	30.1	24.6	18.0	12.7	5.65	0.00	0.00	0.00	0.00	0.00
-45	105	101	93.4	86.3	77.1	67.6	58.4	49.3	41.6	34.8	27.4	20.5	14.5	6.43	0.04	0.00	0.00	0.00
-40	137	125	115	104	89.7	76.6	64.5	54.0	45.0	36.0	28.2	21.6	15.1	3.42	0.00	0.00	0.00	0.00
-35	203	197	177	154	132	111	92.5	75.2	60.6	48.7	38.1	29.7	21.9	13.1	2.52	0.00	0.00	0.00
-30	266	246	212	177	148	123	99.1	78.1	61.5	48.1	37.6	28.4	19.4	9.98	0.00	0.00	0.00	0.00
-25	539	507	427	330	244	180	137	107	81.4	61.9	47.8	36.9	26.8	17.2	6.91	0.00	0.00	0.00
-20	789	679	526	375	257	181	136	104	76.6	57.7	44.4	33.1	22.6	12.8	3.06	0.00	0.00	0.00
-15	1912	1579	1115	752	481	300	195	140	105	76.4	56.8	42.8	31.1	20.7	10.8	1.26	0.00	0.00
-10	2720	1903	1247	781	468	276	180	133	97.1	69.6	51.7	38.0	27.0	16.6	6.75	0.00	0.00	0.00
-5	6372	4665	2474	1310	762	438	254	169	124	88.6	63.5	47.1	34.6	23.7	13.6	3.17	0.00	0.00
0	8376	4573	2095	1113	626	347	210	148	107	74.4	54.5	40.4	29.1	18.4	8.41	0.00	0.00	0.00
5	8335	5969	2968	1471	837	473	267	176	129	91.1	64.6	47.9	35.4	24.4	14.6	3.88	0.00	0.00
10	6006	3425	1728	987	565	318	197	143	103	72.8	53.4	39.6	28.5	18.4	8.55	0.00	0.00	0.00
15	4252	3184	1812	1032	622	367	222	154	115	82.8	60.0	44.8	32.9	22.6	13.3	3.01	0.00	0.00
20	1469	1160	827	544	343	219	152	116	85.9	62.9	47.3	35.0	24.8	15.7	6.49	0.00	0.00	0.00
25	1011	898	700	497	337	225	159	121	92.0	68.6	51.9	39.3	28.6	19.2	10.4	1.31	0.00	0.00
30	451	401	324	247	184	143	115	89.9	68.2	52.6	40.8	30.3	20.9	12.1	3.77	0.00	0.00	0.00
35	318	304	265	217	173	137	111	89.0	69.9	54.4	42.7	33.3	24.1	15.3	6.76	0.26	0.00	0.00
40	175	164	148	132	116	98.1	79.8	64.5	52.1	41.4	33.1	25.2	16.8	8.14	0.43	0.00	0.00	0.00
45	138	134	124	113	101	88.3	75.0	62.1	51.2	41.5	32.8	25.7	19.0	11.4	2.98	0.00	0.00	0.00
50	97.5	92.7	86.9	79.5	70.9	62.8	54.4	46.2	38.7	30.7	23.7	18.3	12.6	4.42	0.00	0.00	0.00	0.00
55	75.5	73.8	69.9	65.5	59.4	53.6	47.6	40.9	35.1	29.5	23.0	17.0	12.4	6.54	0.58	0.00	0.00	0.00
60	52.1	50.2	48.0	44.4	40.8	37.4	32.8	28.4	25.0	20.7	14.8	10.2	5.98	0.01	0.00	0.00	0.00	0.00
65	38.3	36.9	35.9	34.1	31.0	28.7	26.4	22.6	19.4	17.5	13.4	7.81	4.31	1.80	0.00	0.00	0.00	0.00
70	22.9	22.3	22.1	20.1	18.2	17.6	15.6	12.6	11.5	10.1	5.16	0.68	0.00	0.00	0.00	0.00	0.00	0.00
75	11.9	11.2	11.6	11.7	9.63	8.99	9.03	7.14	5.92	5.79	4.21	1.52	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.02	1.88	1.09	0.00	0.97	0.05	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:28.0DEG
Operators:QC1
Test Date:2025-01-17

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: