

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

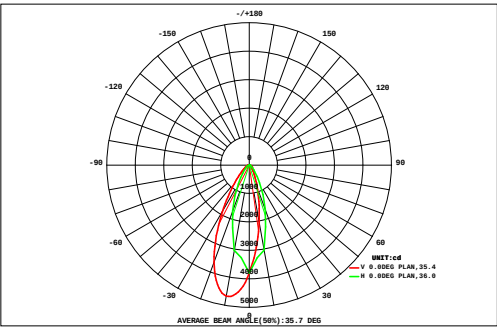
Maximum Intensity (Luminaire orientation as tested.)		1870.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	76.9V x 71.9H
	At 50% of Imax	36.0V x 35.4H
	At 90% of Imax	7.6V x 13.5H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	806.4 lumens per klm.
	To 50% of Imax	392.7 lumens per klm.
	To 90% of Imax	47.0 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:28.0DEG
Operators:QC1
Test Date:2024-10-18

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:24.00V I:0.7431A P:17.83W PF:1.000 Freq:0Hz Lamp Flux:2497.87x1 lm		
NAME: 8.01.020.0019 45° LWW-OP-D80-L6-S	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410032
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:140.06lm/W	
MODEL	LWW-OP-D80-L6-S	Imax(cd)	4673
NOMINAL POWER(W)	18	AVAILABILITY(%)	80.5
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	2010
NOMINAL FLUX(lm)	2497.87	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2498
TEST VOLTAGE(V)	24	θ @50%(H,V)	35,36DEG

AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a
72	0.00	0.00	0.00	0.02	0.09	0.26	0.45	0.64	0.82	0.99	1.10	1.14	1.11	1.01	0.85	0.65	0.45	0.27	9.84	0.00	
64	0.00	0.00	0.04	0.24	0.49	0.78	1.11	1.44	1.72	1.94	2.04	2.01	1.87	1.61	1.28	0.95	0.63	0.36	18.5	0.00	
56	0.00	0.02	0.19	0.50	0.88	1.32	1.83	2.37	2.85	3.20	3.34	3.20	2.84	2.33	1.78	1.26	0.82	0.46	29.2	0.00	
48	0.00	0.08	0.39	0.80	1.30	1.92	2.72	3.64	4.61	5.41	5.68	5.29	4.41	3.36	2.39	1.59	0.99	0.55	45.1	0.00	
40	0.01	0.20	0.59	1.11	1.77	2.69	4.00	5.83	8.02	9.90	10.5	9.35	7.19	4.92	3.15	1.93	1.15	0.61	72.9	22.7	
32	0.03	0.30	0.75	1.38	2.23	3.63	6.00	9.84	14.8	19.1	20.1	17.2	12.2	7.44	4.19	2.35	1.32	0.68	124	94.6	
24	0.05	0.36	0.87	1.58	2.68	4.76	9.04	16.8	27.5	37.0	39.0	31.8	20.7	11.4	5.70	2.86	1.48	0.74	214	192	
VERTICAL (DEG)	0.06	0.40	0.94	1.71	3.03	5.76	11.9	24.1	42.5	59.4	62.9	50.5	31.3	15.9	7.29	3.33	1.62	0.79	323	303	
	0.07	0.42	0.99	1.80	3.26	6.50	14.1	29.8	54.2	77.2	81.9	64.6	38.9	18.8	8.20	3.57	1.69	0.81	407	388	
	0.09	0.45	1.02	1.86	3.37	6.87	15.1	32.1	58.2	82.4	85.6	65.7	38.4	18.1	7.83	3.43	1.63	0.78	423	404	
	0.07	0.40	0.95	1.72	3.07	5.85	12.2	24.9	44.4	62.6	66.2	52.0	31.3	15.6	7.04	3.20	1.57	0.77	334	314	
	0.04	0.34	0.83	1.51	2.54	4.41	8.24	15.3	25.6	35.7	38.7	32.1	20.9	11.4	5.68	2.84	1.47	0.74	208	185	
	0.02	0.25	0.68	1.28	2.09	3.36	5.55	9.16	14.1	18.8	20.4	17.7	12.5	7.61	4.25	2.36	1.31	0.68	122	93.0	
	0.01	0.16	0.53	1.03	1.67	2.53	3.68	5.22	7.02	8.53	9.09	8.35	6.62	4.64	2.99	1.87	1.12	0.61	65.7	14.5	
	0.00	0.09	0.37	0.78	1.28	1.86	2.53	3.22	3.86	4.34	4.50	4.26	3.67	2.90	2.12	1.45	0.92	0.51	38.7	0.00	
	0.00	0.01	0.17	0.47	0.83	1.25	1.69	2.10	2.46	2.72	2.82	2.73	2.45	2.03	1.57	1.14	0.75	0.43	25.6	0.00	
	0.00	0.00	0.02	0.17	0.41	0.68	0.97	1.26	1.52	1.73	1.83	1.82	1.68	1.43	1.14	0.86	0.59	0.34	16.4	0.00	
-72	0.00	0.00	0.00	0.03	0.08	0.19	0.34	0.49	0.64	0.79	0.91	0.97	0.96	0.87	0.74	0.58	0.41	0.24	8.24	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72	
Φ t	0.45	3.48	9.33	18.0	31.1	54.6	101	188	315	432	457	371	239	131	68.2	36.2	19.9	10.4	2485	---	
Φ a	0.00	0.00	0.00	0.00	0.00	4.40	61.6	155	285	401	426	341	210	99.7	26.2	0.00	0.00	0.00	---	2010	

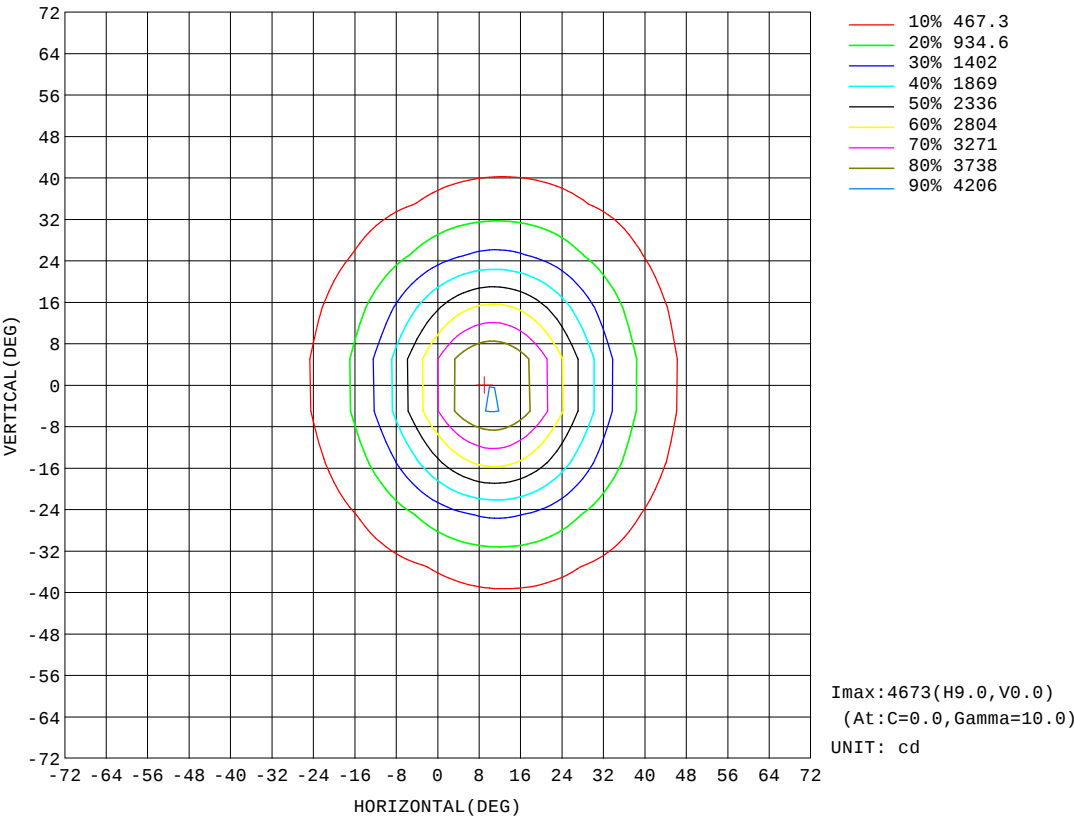
one-half-peak spread: U:17.9,D:18.4 , L:17.3,R:18.4 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-18

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

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SPEC.:	DIM.:	SERIAL No.:202410032
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

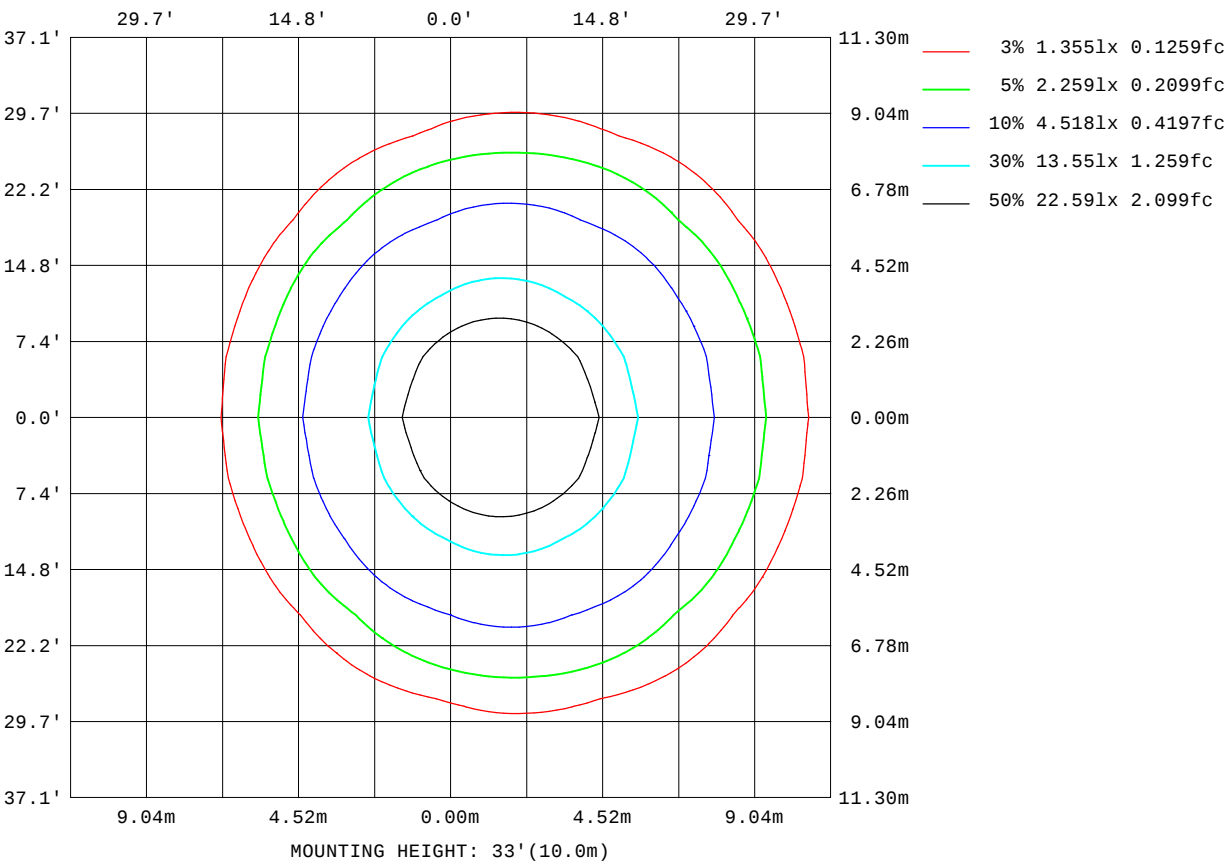


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ISOLUX DIAGRAM

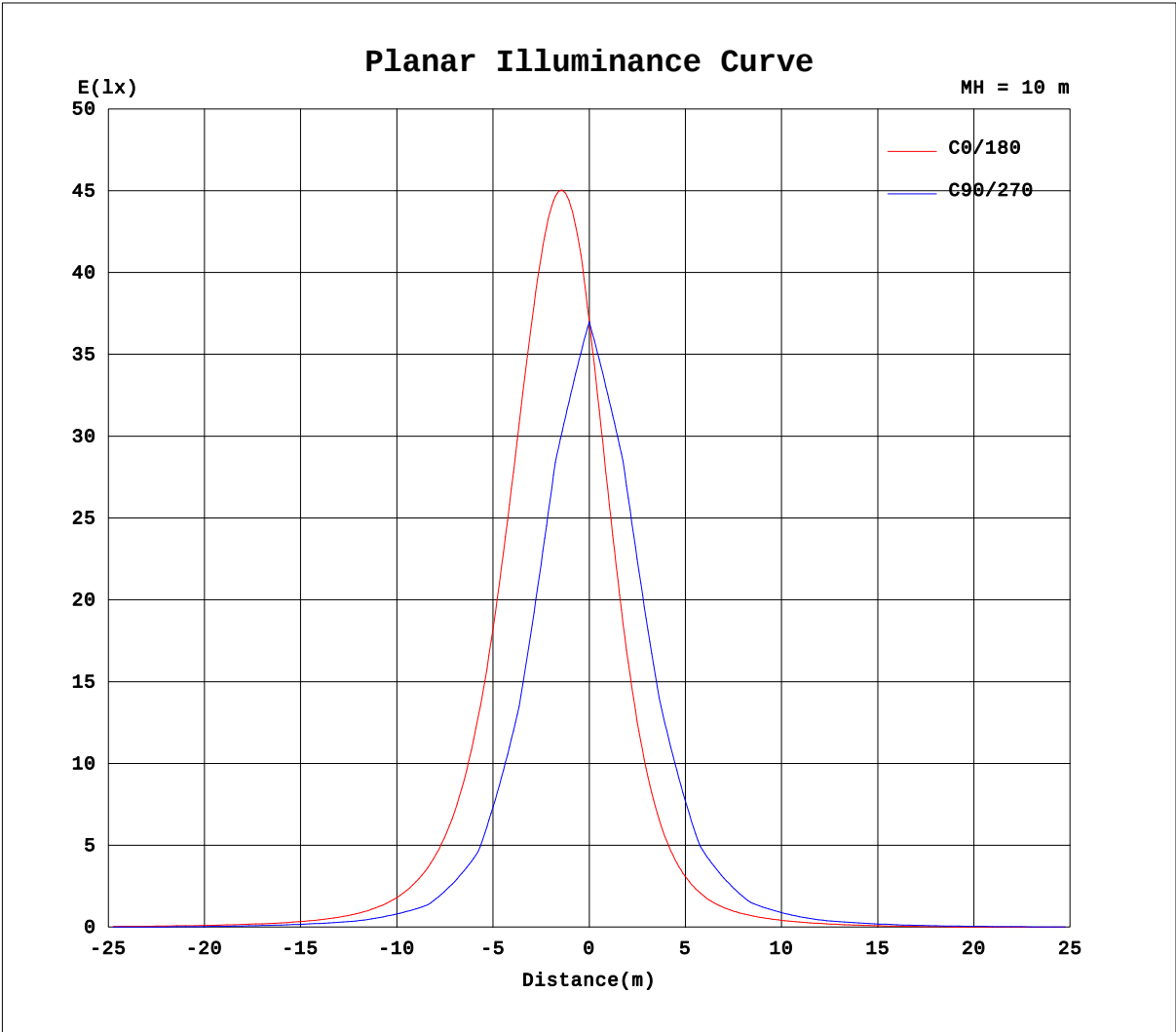
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Remarks:

Planar Illuminance Curve

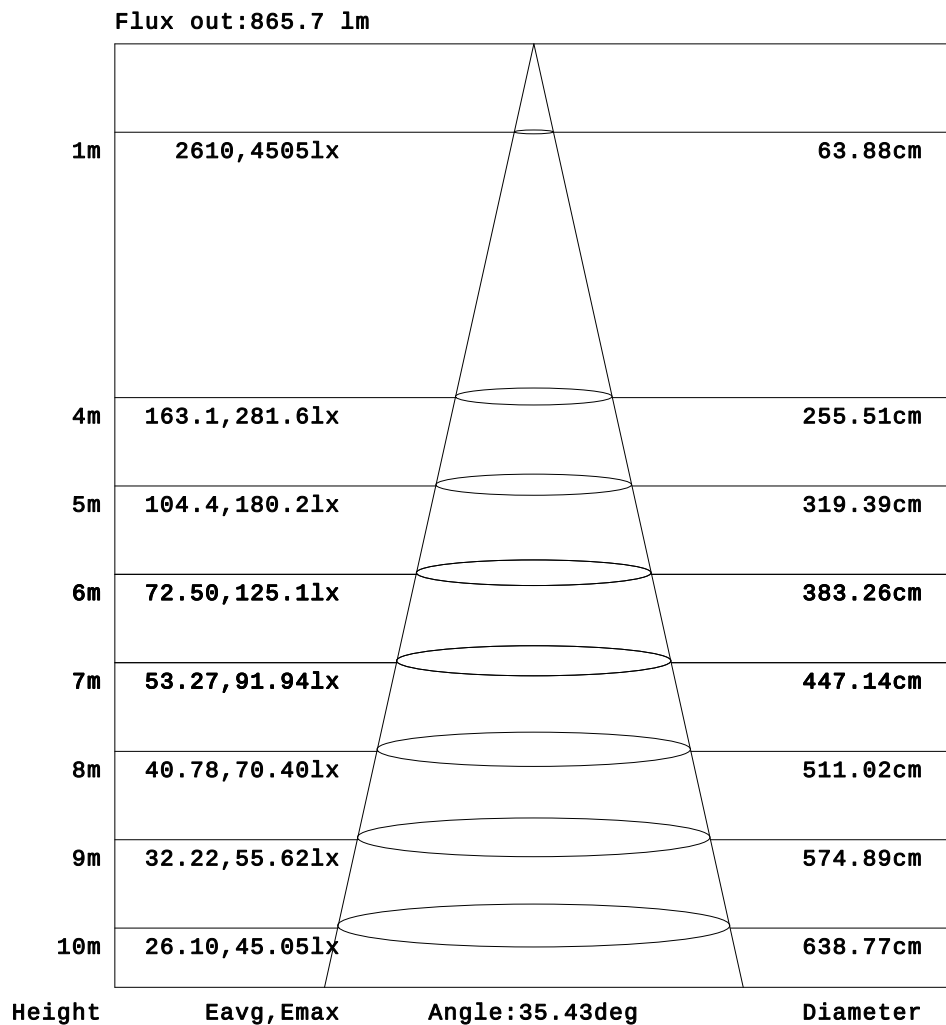


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AAI Figure

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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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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	1.22	3.34	5.23	6.93	8.76	10.7	12.9	
-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	3.30	7.50	11.1	14.6	18.3	22.3	26.7	
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	4.70	9.16	13.7	19.1	25.3	31.4	37.4	43.3	49.0	54.8	
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	11.2	20.1	29.0	37.3	45.6	54.1	62.5	70.6	78.1	85.1	
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.19	10.8	21.6	32.6	43.6	54.7	65.9	77.3	88.7	99.9	111	121	
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.01	10.8	23.5	36.5	49.5	62.7	76.4	90.7	105	119	134	147	160	
-45	0.00	0.00	0.00	0.00	0.00	0.00	5.07	17.0	31.4	46.2	61.5	77.3	94.2	113	133	156	180	206	230	
-40	0.00	0.00	0.00	0.00	0.00	0.00	13.2	28.8	45.1	62.1	79.7	98.5	119	143	170	201	237	274	310	
-35	0.00	0.00	0.00	0.00	0.00	2.08	16.1	33.1	51.0	69.8	89.7	112	138	172	215	270	340	420	501	
-30	0.00	0.00	0.00	0.00	0.00	8.02	25.7	44.3	64.3	85.2	108	135	170	217	280	365	474	598	723	
-25	0.00	0.00	0.00	0.00	0.00	8.32	27.1	46.9	68.2	90.6	116	147	191	255	352	490	677	906	1147	
-20	0.00	0.00	0.00	0.00	0.00	16.2	36.2	57.8	80.7	105	135	175	234	326	472	681	967	1309	1661	
-15	0.00	0.00	0.00	0.00	0.01	14.8	35.2	57.4	81.1	107	138	182	250	359	539	815	1209	1711	2250	
-10	0.00	0.00	0.00	0.00	1.50	21.2	42.7	66.3	91.3	119	156	212	302	452	701	1087	1638	2328	3041	
-5	0.00	0.00	0.00	0.00	0.24	18.3	40.0	63.5	88.7	116	152	206	295	446	700	1102	1691	2451	3261	
0	0.00	0.00	0.00	0.00	3.08	23.9	46.2	70.6	96.5	126	166	229	339	523	833	1321	2025	2901	3788	
5	0.00	0.00	0.00	0.00	0.25	18.7	40.5	64.3	89.5	117	154	209	299	453	711	1118	1711	2470	3266	
10	0.00	0.00	0.00	0.00	1.87	22.0	44.0	67.9	93.0	121	159	217	310	467	725	1121	1680	2363	3044	
15	0.00	0.00	0.00	0.00	0.01	15.9	36.9	59.5	83.6	110	142	188	259	376	565	852	1257	1762	2286	
20	0.00	0.00	0.00	0.00	0.23	17.9	38.5	60.7	84.1	110	140	182	246	348	502	725	1025	1375	1721	
25	0.00	0.00	0.00	0.00	0.00	10.4	29.5	49.9	71.7	94.7	121	154	201	270	375	524	723	960	1202	
30	0.00	0.00	0.00	0.00	0.00	10.2	28.5	47.7	68.2	89.7	113	141	180	230	300	394	512	644	772	
35	0.00	0.00	0.00	0.00	0.00	3.35	18.9	36.4	54.9	74.0	94.2	117	146	182	230	292	368	455	541	
40	0.00	0.00	0.00	0.00	0.00	1.16	16.2	32.3	49.1	66.2	83.8	103	125	151	182	217	258	300	343	
45	0.00	0.00	0.00	0.00	0.00	0.00	6.67	20.4	35.2	50.3	65.5	81.5	99.0	119	143	168	196	225	254	
50	0.00	0.00	0.00	0.00	0.00	0.00	1.78	14.4	27.2	40.5	53.5	66.7	80.7	96.4	113	130	146	162	176	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.13	5.89	14.5	25.8	37.0	48.0	59.2	71.5	84.7	97.8	111	123	134	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.14	15.6	24.9	33.8	42.5	51.7	61.4	71.0	79.9	88.0	95.4	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	6.84	11.5	17.6	24.6	31.6	38.9	46.0	52.9	59.4	65.6	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.23	9.54	14.5	19.3	23.9	28.6	33.4	38.2	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.59	4.25	6.76	9.16	11.5	13.8	16.2	18.6	
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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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--2																	UNIT: cd	
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	0.00	0.00	0.01	3.54	6.98	10.2	13.0	15.2	16.9	17.8	18.0	17.7	15.6	8.87	5.19	4.21	2.55	2.73
-75	15.1	17.5	19.7	22.9	26.0	28.4	29.9	30.8	31.2	30.8	29.7	28.1	25.8	18.2	11.1	7.87	4.17	1.20
-70	31.2	35.9	40.1	43.6	46.1	47.4	47.4	46.7	45.5	43.5	40.8	37.6	33.8	24.4	15.4	9.61	4.86	0.00
-65	60.1	64.8	68.6	71.1	72.3	71.9	69.6	66.4	62.8	58.9	54.4	49.3	43.5	34.6	21.5	14.8	7.50	1.63
-60	91.0	95.4	98.3	99.3	98.7	95.7	90.6	84.7	78.6	72.6	66.0	58.8	50.8	39.2	24.8	15.4	7.65	0.00
-55	129	135	138	138	135	129	120	111	101	91.1	81.6	71.8	61.7	50.7	33.5	20.1	10.5	1.81
-50	170	176	179	177	170	159	147	133	119	106	93.2	80.8	68.4	55.5	37.6	18.2	10.3	0.00
-45	252	266	270	264	248	225	199	174	150	129	111	94.8	79.5	64.5	47.4	26.8	11.9	0.72
-40	343	359	360	345	317	280	242	205	173	145	122	103	84.6	67.5	51.2	26.4	9.56	0.00
-35	571	612	613	576	510	429	348	278	220	177	144	118	96.4	76.7	58.4	37.6	14.7	0.08
-30	822	871	857	784	671	544	425	324	249	194	154	124	100	78.5	58.6	38.8	12.9	0.00
-25	1349	1454	1429	1284	1064	826	611	442	319	235	180	140	111	86.9	65.3	45.3	21.9	0.55
-20	1936	2049	1961	1704	1362	1017	722	502	350	251	187	143	112	86.4	63.7	43.0	20.7	0.00
-15	2696	2905	2807	2442	1929	1409	972	650	434	297	212	158	122	94.3	70.3	48.2	27.2	4.23
-10	3585	3773	3543	2987	2283	1610	1073	697	453	301	212	157	120	92.2	67.6	45.2	24.2	1.09
-5	3935	4221	4032	3454	2672	1895	1256	807	517	338	233	170	128	98.3	72.9	49.7	28.3	7.90
0	4470	4669	4340	3625	2739	1899	1228	779	494	323	224	163	123	93.9	68.5	45.5	24.2	4.74
5	3918	4188	3999	3435	2668	1899	1262	812	520	341	234	171	129	98.7	73.2	49.8	28.4	8.47
10	3541	3704	3482	2956	2280	1620	1085	707	459	305	215	159	122	93.0	68.1	45.3	24.3	4.45
15	2702	2887	2783	2431	1936	1423	987	663	443	303	216	161	124	95.4	70.9	48.4	27.7	8.39
20	1979	2075	1978	1722	1382	1036	740	516	359	257	191	145	113	87.6	64.3	43.1	23.1	4.80
25	1397	1492	1458	1309	1088	847	630	457	329	243	184	143	113	88.5	66.2	45.6	26.3	8.23
30	871	916	895	815	698	566	443	339	258	201	160	128	103	80.3	59.4	40.4	22.1	4.61
35	612	651	648	606	535	450	366	292	231	185	150	122	99.4	78.8	59.4	41.6	24.4	8.05
40	374	391	390	371	339	299	257	218	184	153	128	107	87.8	69.5	52.0	35.9	19.9	5.03
45	277	291	294	285	267	242	215	187	162	138	118	99.9	83.0	66.9	51.2	36.5	21.8	7.83
50	187	194	196	193	185	174	161	146	131	115	100	85.9	71.8	57.7	44.3	31.2	17.8	5.06
55	143	149	152	152	149	142	134	123	112	101	88.9	77.1	65.3	53.5	41.9	30.5	18.8	7.60
60	102	106	109	110	110	107	103	96.8	89.5	81.3	72.7	63.6	54.0	44.5	35.0	25.1	15.0	5.50
65	71.2	75.7	79.1	81.3	82.4	82.0	80.1	76.8	72.3	66.9	60.8	54.1	46.9	39.5	31.8	23.7	15.4	7.30
70	42.7	46.7	50.2	53.0	55.0	56.0	56.2	55.2	53.1	50.1	46.3	41.8	36.8	31.4	25.4	19.0	12.5	5.70
75	21.3	25.0	28.3	31.5	34.2	36.1	37.5	38.0	37.8	36.6	34.8	32.1	29.0	25.4	21.2	16.7	12.1	7.09
80	1.32	4.62	7.65	11.1	14.3	16.9	19.1	20.9	22.1	22.5	22.3	21.2	19.8	17.8	15.3	12.6	9.74	6.28
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:2024-10-18

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: