

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	3046.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	55.4V x 52.2H
	At 50% of Imax	27.7V x 26.4H
	At 90% of Imax	7.5V x 10.4H

Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	715.4 lumens per klm.
	To 50% of Imax	359.1 lumens per klm.
	To 90% of Imax	43.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

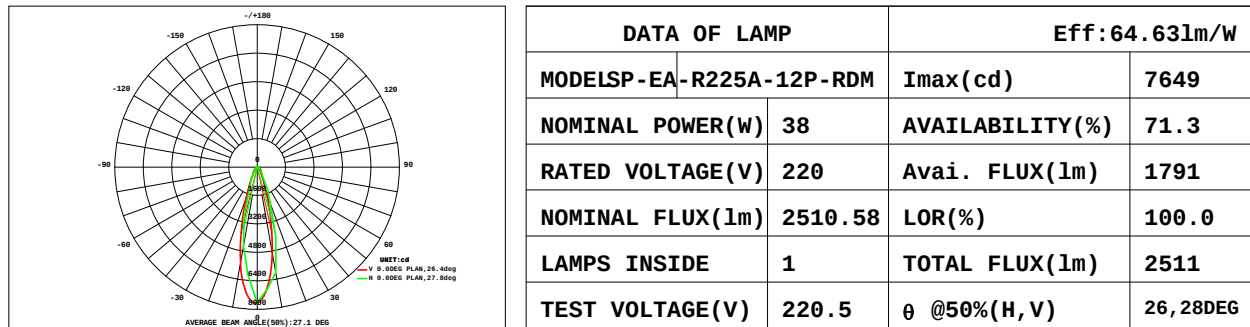
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

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:220.5V I:0.2797A P:38.85W PF:0.6298 Lamp Flux:2510.58x1 lm		
NAME: 8.03.012.0122 25° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	45	0.64	0.83	1.04	1.26	1.49	1.71	1.90	2.05	2.14	2.15	2.09	1.95	1.76	1.54	1.32	1.09	0.89	0.70	26.5	0.00	
	40	0.80	1.03	1.29	1.57	1.86	2.13	2.37	2.55	2.64	2.63	2.53	2.33	2.07	1.79	1.50	1.22	0.98	0.76	32.1	0.00	
	35	0.86	1.15	1.48	1.88	2.32	2.82	3.34	3.81	4.13	4.22	3.98	3.50	2.95	2.44	1.98	1.57	1.23	0.94	44.6	0.00	
	30	1.05	1.41	1.84	2.34	2.94	3.62	4.33	4.97	5.37	5.39	4.94	4.19	3.43	2.77	2.19	1.71	1.31	0.99	54.8	1.65	
	25	1.07	1.47	1.99	2.70	3.77	5.48	7.91	10.6	12.7	13.1	11.3	8.28	5.70	3.98	2.89	2.15	1.61	1.19	97.9	69.9	
	20	1.29	1.78	2.47	3.46	5.11	7.88	11.7	15.7	18.5	18.3	14.7	10.0	6.53	4.37	3.08	2.25	1.66	1.20	130	105	
	15	1.24	1.74	2.45	3.61	5.89	10.7	19.3	29.4	36.7	37.7	31.7	21.4	12.5	6.95	4.15	2.75	1.93	1.38	231	210	
		1.45	2.07	3.00	4.71	8.43	16.6	30.0	44.2	52.4	50.8	39.9	25.2	13.8	7.24	4.17	2.71	1.88	1.33	310	290	
		1.29	1.84	2.68	4.14	7.31	14.4	26.9	42.0	52.7	54.3	45.7	31.1	17.3	8.76	4.78	3.00	2.07	1.46	322	302	
		1.46	2.12	3.17	5.25	10.1	20.2	36.2	52.1	60.7	58.1	45.4	28.7	14.9	7.30	4.11	2.67	1.88	1.34	356	337	
		1.24	1.74	2.46	3.62	5.84	10.5	18.9	29.9	38.5	40.0	34.0	23.7	13.7	7.37	4.26	2.79	1.95	1.40	242	220	
	-15	1.34	1.86	2.64	3.90	6.18	10.3	16.7	24.2	28.5	26.8	20.5	13.4	7.84	4.79	3.22	2.30	1.67	1.21	177	155	
	-20	1.09	1.48	1.99	2.71	3.75	5.44	8.29	12.1	15.4	16.0	14.0	10.6	7.10	4.59	3.12	2.25	1.66	1.22	113	86.0	
	-25	1.10	1.47	1.94	2.52	3.13	3.74	4.24	4.45	4.18	3.64	3.21	3.05	3.01	2.69	2.22	1.76	1.36	1.02	48.7	10.9	
	-30	0.87	1.17	1.50	1.92	2.40	2.97	3.67	4.47	5.08	5.16	4.75	4.10	3.37	2.68	2.12	1.67	1.29	0.98	50.2	3.95	
	-35	0.84	1.10	1.38	1.67	1.96	2.18	2.27	2.18	2.03	2.00	2.04	2.05	1.98	1.78	1.55	1.27	1.01	0.78	30.1	0.00	
-40	0.66	0.86	1.07	1.31	1.55	1.81	2.04	2.24	2.36	2.38	2.29	2.13	1.92	1.67	1.41	1.17	0.94	0.73	28.5	0.00		
-45	0.61	0.76	0.92	1.08	1.24	1.38	1.49	1.54	1.57	1.56	1.52	1.44	1.33	1.19	1.03	0.87	0.71	0.56	20.8	0.00		
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)				10	15	20	25	30	35	40	45		
Φ t	18.9	25.9	35.3	49.7	75.2	124	202	289	346	344	285	197	121	73.9	49.1	35.2	26.0	19.2	2315	---		
Φ a	0.00	0.00	0.00	4.48	40.7	96.0	176	264	321	320	259	173	96.1	39.1	2.03	0.00	0.00	0.00	---	1791		

one-half-peak spread: U:12.4,D:15.5 , L:13.0,R:13.6

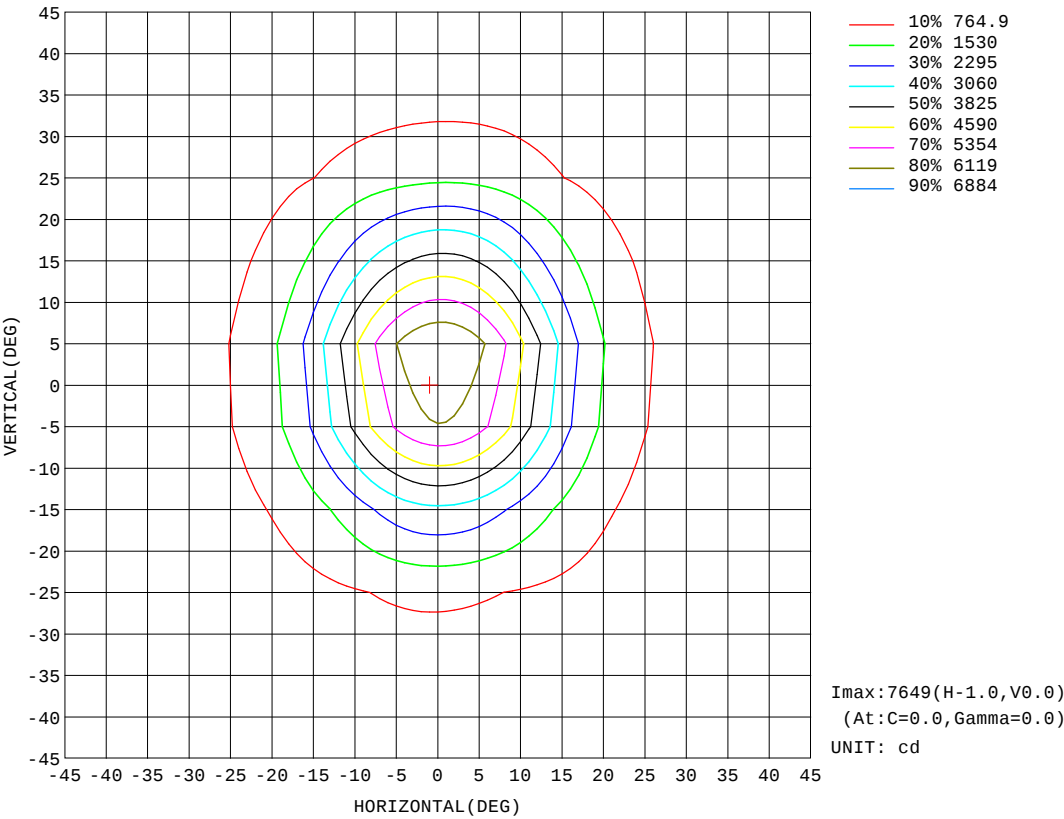
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.5V I:0.2797A P:38.85W PF:0.6298 Lamp Flux:2510.58x1 lm		
NAME: 8.03.012.0122 25° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

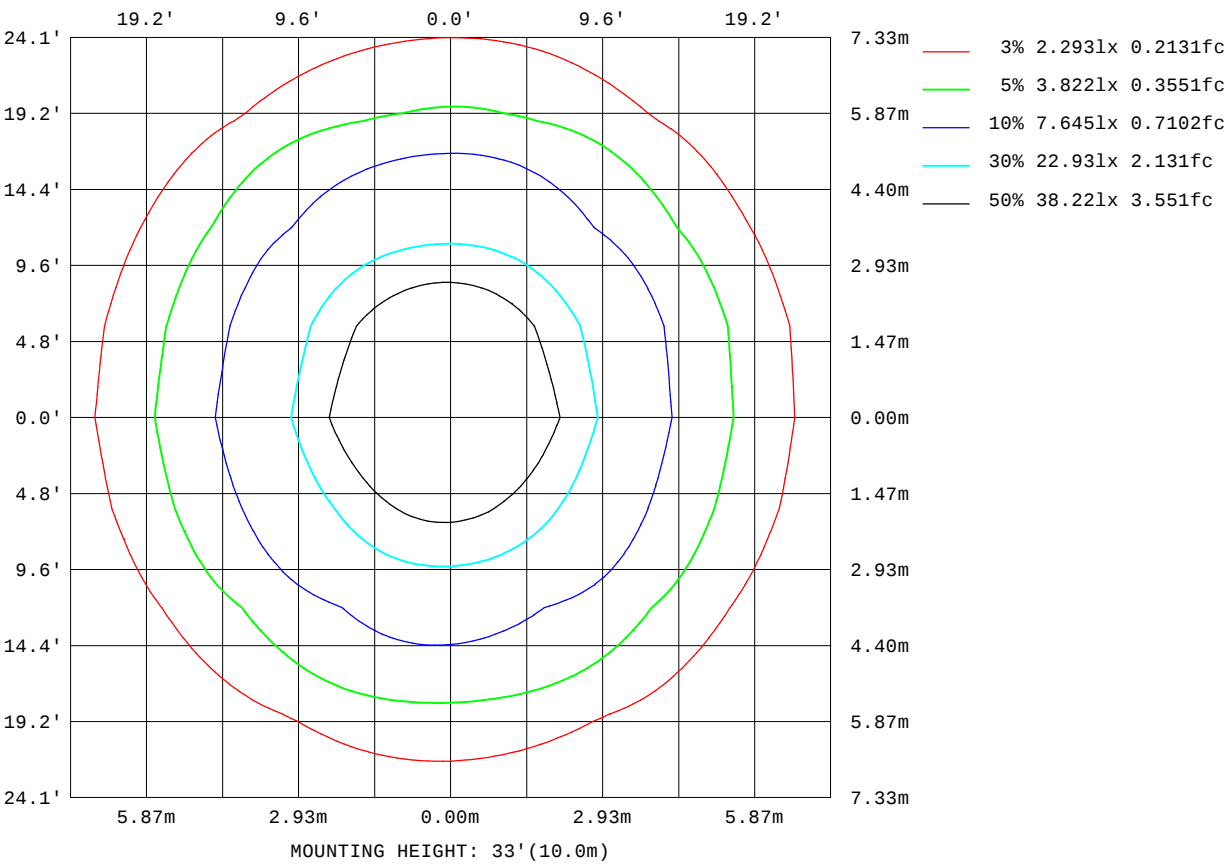


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Test Date:2024-09-10

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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:220.5V I:0.2797A P:38.85W PF:0.6298 Lamp Flux:2510.58x1 lm		
NAME: 8.03.012.0122 25° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

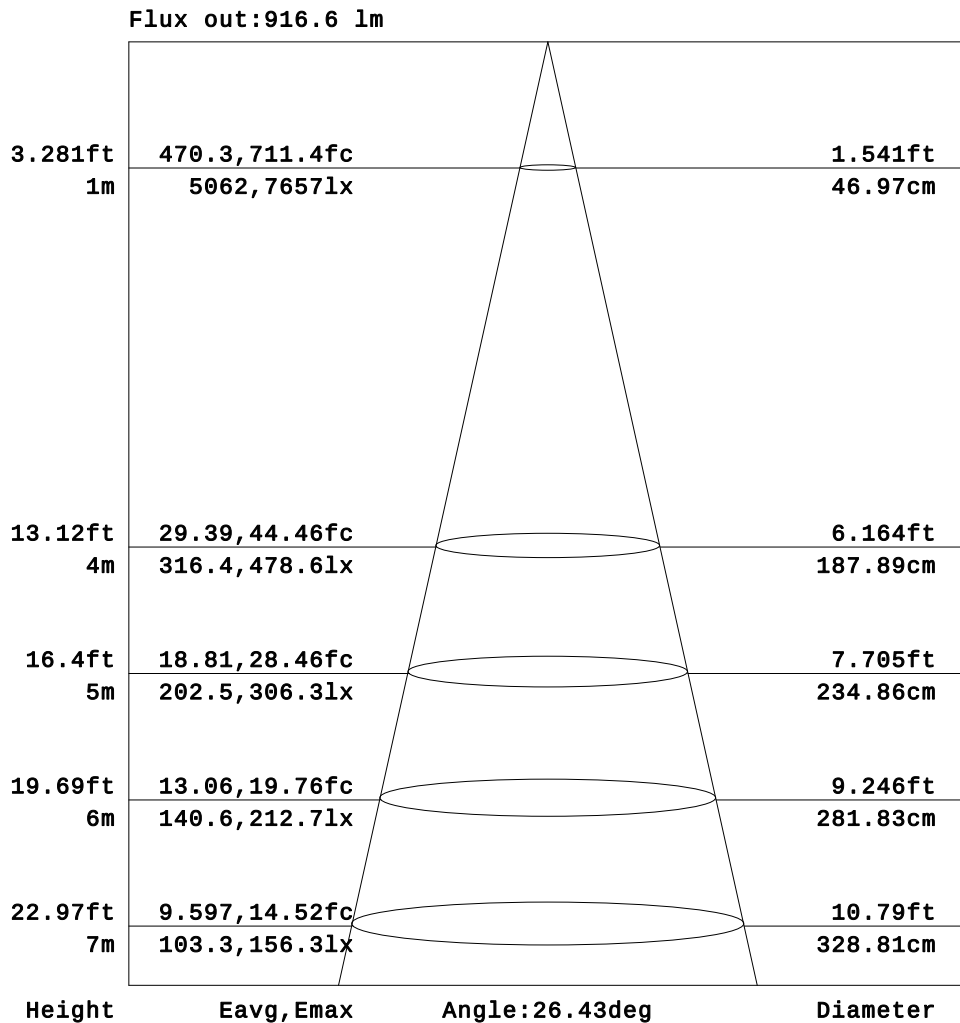


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

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:220.5V I:0.2797A P:38.85W PF:0.6298 Lamp Flux:2510.58x1 lm		
NAME: 8.03.012.0122 25° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

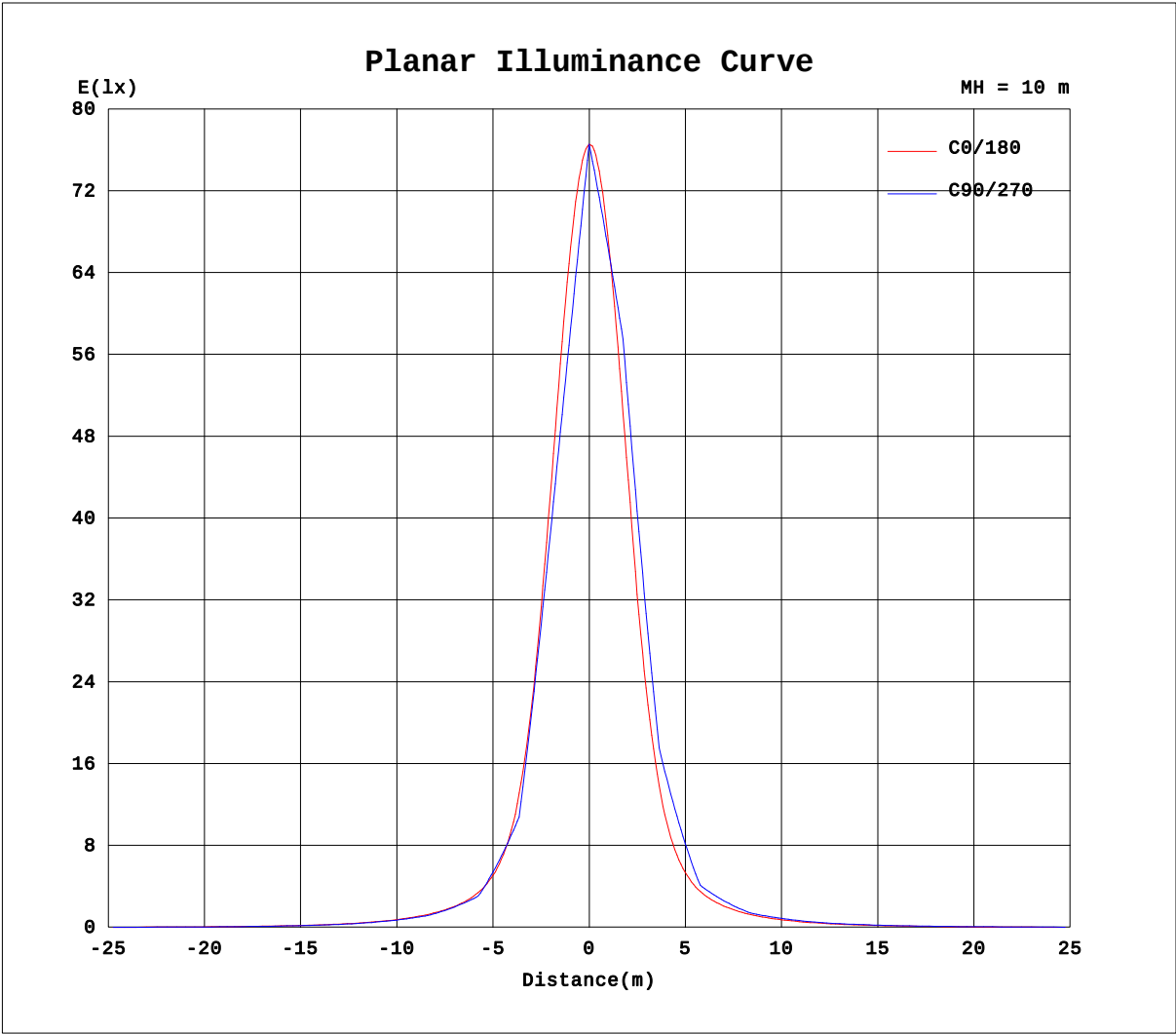


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

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:2024-09-10

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:220.5V I:0.2797A P:38.85W PF:0.6298 Lamp Flux:2510.58x1 lm																	
NAME: 8.03.012.0122 25° SP-EA-R225A-12P-RDM									TYPE:LED						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:2024090054		
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	1.68	3.98	6.05	7.80	9.27	10.3	11.1	11.8	12.3
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	4.23	8.82	12.9	16.2	19.0	21.0	22.5	23.8	24.8
-65	0.00	0.00	0.00	0.00	0.00	0.00	1.08	5.15	9.48	14.3	20.7	27.4	33.2	38.5	43.3	47.1	49.8	51.9	52.7
-60	0.00	0.00	0.00	0.00	0.00	0.00	3.72	12.0	20.9	30.6	39.9	48.4	55.7	62.8	69.4	74.4	78.1	80.4	80.7
-55	0.00	0.00	0.00	0.00	0.00	3.64	11.1	21.9	34.0	46.6	58.6	69.9	80.5	90.1	98.4	105	111	115	116
-50	0.00	0.00	0.00	0.00	0.01	9.70	22.9	36.4	52.2	67.7	81.9	95.7	109	121	130	139	146	150	152
-45	0.00	0.00	0.00	0.00	2.78	14.5	29.3	46.0	64.6	83.1	100	118	136	153	169	183	195	202	205
-40	0.00	0.00	0.00	0.00	8.74	24.9	42.1	62.9	84.6	106	126	147	169	191	213	232	247	257	259
-35	0.00	0.00	0.00	0.00	9.83	27.2	47.2	69.7	94.2	118	144	173	203	237	271	305	337	359	366
-30	0.00	0.00	0.00	0.70	17.8	37.1	60.7	86.2	113	141	174	210	250	295	343	391	437	466	471
-25	0.00	0.00	0.00	0.90	17.6	38.4	63.6	90.9	121	152	190	235	291	359	445	561	709	845	889
-20	0.00	0.00	0.00	5.62	25.5	49.3	76.9	107	140	178	224	280	356	454	589	787	1044	1260	1297
-15	0.00	0.00	0.00	2.99	23.0	47.2	76.1	107	142	183	234	300	395	544	806	1273	1950	2634	2921
-10	0.00	0.00	0.00	8.42	29.6	56.2	87.3	121	159	207	268	352	483	717	1170	2000	3156	4207	4526
-5	0.00	0.00	0.00	5.05	26.1	52.4	83.9	117	155	203	264	351	487	749	1309	2403	3985	5453	6092
0	0.00	0.00	0.00	10.0	32.3	60.7	93.5	128	168	219	289	394	568	942	1791	3372	5466	7120	7637
5	0.00	0.00	0.00	5.31	26.5	53.6	85.8	119	157	206	269	360	501	781	1405	2664	4484	6112	6829
10	0.00	0.00	0.00	8.94	30.6	58.8	91.2	125	164	214	279	371	516	797	1409	2613	4237	5567	6011
15	0.00	0.00	0.00	3.63	24.1	50.1	80.9	113	148	192	247	322	431	615	982	1688	2693	3619	4058
20	0.00	0.00	0.00	6.62	27.1	53.1	83.2	115	149	190	242	310	403	541	773	1130	1563	1945	2115
25	0.00	0.00	0.00	1.29	19.3	42.7	69.6	98.7	130	165	208	261	330	421	558	760	1009	1240	1370
30	0.00	0.00	0.00	1.66	19.9	42.3	67.3	94.9	124	155	193	238	289	346	412	485	555	610	636
35	0.00	0.00	0.00	0.01	12.4	32.1	53.8	78.1	104	131	162	196	235	277	323	372	418	455	475
40	0.00	0.00	0.00	0.00	12.1	30.3	49.8	71.5	94.7	119	143	169	198	226	254	278	298	311	316
45	0.00	0.00	0.00	0.00	4.42	19.5	36.4	54.6	74.3	95.2	116	137	159	181	202	221	236	246	250
50	0.00	0.00	0.00	0.00	1.42	15.4	30.1	45.3	61.9	80.0	97.5	114	130	145	159	170	178	184	185
55	0.00	0.00	0.00	0.00	0.01	6.20	17.9	30.5	43.7	57.8	72.3	86.5	99.6	112	123	132	139	144	146
60	0.00	0.00	0.00	0.00	0.00	0.59	10.6	20.9	31.0	41.4	52.9	64.3	74.4	83.1	90.9	97.7	103	106	106
65	0.00	0.00	0.00	0.00	0.00	0.00	4.28	9.44	15.4	23.4	32.1	40.7	48.8	55.9	61.9	67.0	70.8	73.0	73.7
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	8.93	14.7	20.6	26.4	31.2	35.1	38.0	39.9	40.9	40.9
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	3.86	6.80	9.69	12.6	15.2	17.2	18.7	19.8	20.4	20.5
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

H(β) Range:-90 - 90DEG
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DIM.:	SPEC.:	SERIAL No.:2024090054
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	12.4	12.0	11.0	9.66	8.24	6.72	5.03	2.98	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	24.8	23.7	21.5	18.8	15.9	12.8	9.26	5.09	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-65	52.3	50.9	48.5	45.0	40.5	35.0	29.0	22.7	16.2	11.0	6.36	1.95	0.00	0.00	0.00	0.00	0.00	0.00	
-60	79.5	77.4	74.3	69.6	63.0	54.8	46.2	37.7	29.2	20.1	10.9	2.25	0.00	0.00	0.00	0.00	0.00	0.00	
-55	115	113	108	101	93.3	83.5	72.2	60.4	48.7	36.8	24.8	13.4	5.10	0.00	0.00	0.00	0.00	0.00	
-50	150	146	139	130	120	108	93.5	78.5	63.6	48.8	34.0	20.4	7.73	0.00	0.00	0.00	0.00	0.00	
-45	204	197	187	173	157	140	123	104	86.1	68.3	50.5	32.9	17.5	4.17	0.00	0.00	0.00	0.00	
-40	255	245	230	210	188	166	144	123	102	80.7	59.8	39.0	21.4	5.38	0.00	0.00	0.00	0.00	
-35	357	338	310	279	244	211	180	151	124	100	76.8	52.9	32.0	13.7	0.57	0.00	0.00	0.00	
-30	453	420	379	333	286	244	204	169	137	110	84.4	57.8	34.9	15.0	0.00	0.00	0.00	0.00	
-25	827	714	586	468	373	303	247	201	162	128	99.4	70.4	44.5	22.6	3.14	0.00	0.00	0.00	
-20	1161	957	742	560	429	338	271	217	172	134	103	71.9	44.7	22.0	1.61	0.00	0.00	0.00	
-15	2677	2070	1393	871	572	413	317	248	195	151	117	83.7	54.0	29.1	7.18	0.00	0.00	0.00	
-10	3983	2910	1798	1031	636	443	331	256	199	154	118	82.9	52.4	27.3	4.95	0.00	0.00	0.00	
-5	5589	4216	2617	1421	790	510	369	280	216	166	127	91.7	59.6	32.7	9.60	0.00	0.00	0.00	
0	6745	4874	2854	1473	795	506	364	277	212	162	122	87.0	55.0	28.7	5.75	0.00	0.00	0.00	
5	6289	4733	2904	1564	852	535	381	287	220	169	128	93.4	60.8	33.2	9.87	0.00	0.00	0.00	
10	5338	3831	2304	1274	740	486	355	268	206	158	120	86.5	54.6	28.1	5.63	0.00	0.00	0.00	
15	3774	2860	1823	1085	672	461	344	264	205	158	121	88.5	57.3	30.4	8.10	0.00	0.00	0.00	
20	1922	1444	990	683	496	380	297	235	184	141	109	77.7	48.2	23.5	2.79	0.00	0.00	0.00	
25	1307	1057	779	573	436	343	275	220	175	137	106	76.9	48.8	24.7	4.57	0.00	0.00	0.00	
30	616	553	472	398	334	277	228	186	151	120	92.0	64.6	38.8	17.5	0.51	0.00	0.00	0.00	
35	468	434	384	333	286	242	204	169	139	111	84.9	60.0	36.6	16.7	1.34	0.00	0.00	0.00	
40	311	296	275	249	221	192	165	140	115	91.2	67.7	45.7	25.7	8.75	0.00	0.00	0.00	0.00	
45	248	239	225	206	186	164	143	122	101	79.5	59.4	40.3	22.6	7.10	0.00	0.00	0.00	0.00	
50	183	177	168	156	143	128	113	95.6	77.4	59.9	43.3	27.6	12.9	0.49	0.00	0.00	0.00	0.00	
55	144	140	133	125	115	103	90.7	76.5	62.0	47.8	34.2	20.8	8.30	1.11	0.00	0.00	0.00	0.00	
60	105	101	96.0	89.8	82.5	73.5	62.9	51.6	40.8	30.3	19.7	8.58	0.01	0.00	0.00	0.00	0.00	0.00	
65	72.9	70.6	67.3	63.0	57.6	50.9	43.3	35.1	27.0	18.6	10.9	5.40	0.44	0.00	0.00	0.00	0.00	0.00	
70	40.3	39.0	37.0	34.1	30.2	25.5	20.5	15.4	9.83	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
75	20.3	19.7	18.7	17.4	15.5	13.2	10.7	8.20	5.50	2.47	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	
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:2024-09-10

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: