

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	858.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	107.9V x 106.2H
	At 50% of Imax	62.9V x 62.4H
	At 90% of Imax	25.9V x 27.2H

Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	922.9 lumens per klm.
	To 50% of Imax	572.3 lumens per klm.
	To 90% of Imax	130.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

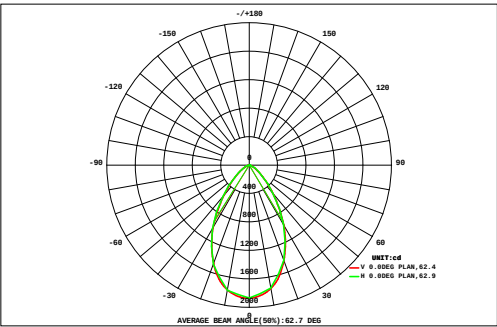
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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:220.7V I:0.2752A P:38.24W PF:1.000 Freq:50.00Hz Lamp Flux:2178.63x1 lm		
NAME: 8.03.012.0128 60° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411022
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:56.97lm/W	
MODEL	SP-EA-R225A-12P-RDM	Imax(cd)	1869
NOMINAL POWER(W)	38	AVAILABILITY(%)	92.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2015
NOMINAL FLUX(lm)	2178.63	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2179
TEST VOLTAGE(V)	220	θ @50%(H,V)	62,63DEG

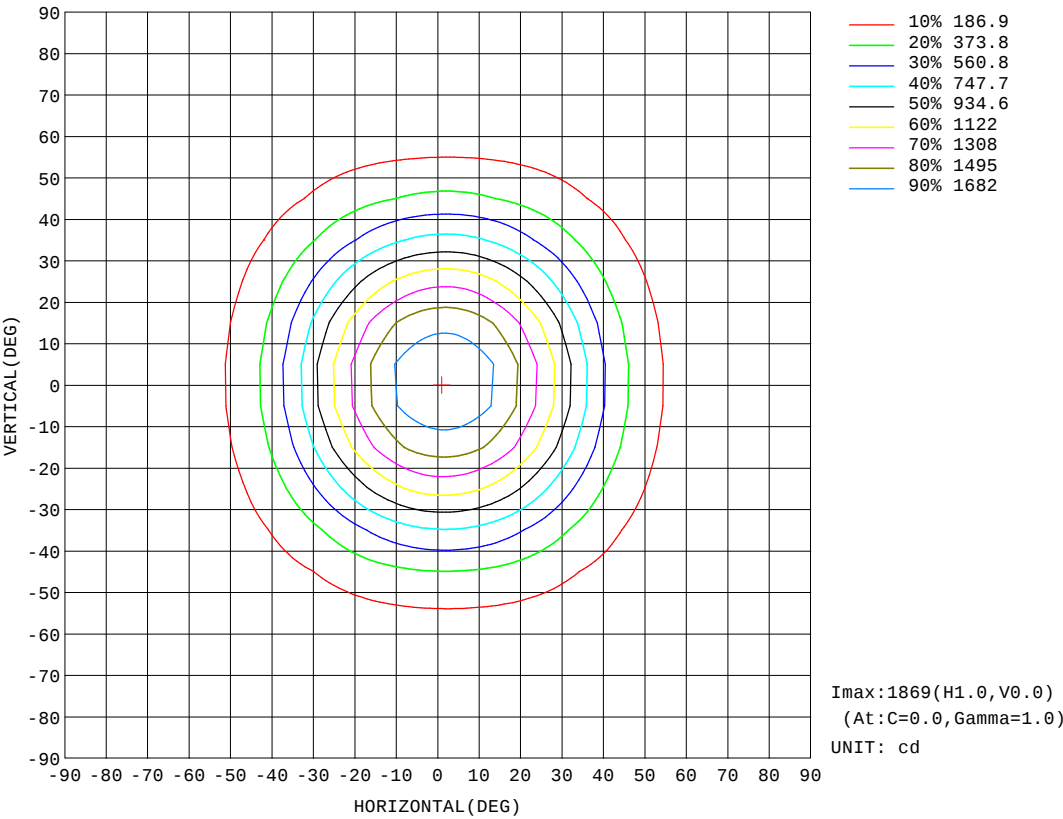
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.04	0.16	0.27	0.36	0.43	0.44	0.40	0.31	0.21	0.10	0.01	0.00	0.00	0.00	2.72	0.00
70	0.00	0.00	0.00	0.10	0.38	0.87	1.36	1.80	2.07	2.12	1.93	1.53	1.05	0.57	0.18	0.03	0.00	0.00	14.0	0.00
60	0.00	0.00	0.05	0.47	1.21	2.17	3.31	4.43	5.17	5.29	4.70	3.64	2.46	1.44	0.66	0.15	0.00	0.00	35.2	10.4
50	0.00	0.00	0.23	0.96	2.18	4.08	6.73	9.55	11.5	11.8	10.2	7.48	4.70	2.55	1.19	0.37	0.02	0.00	73.6	60.0
40	0.00	0.01	0.42	1.45	3.44	7.13	12.6	18.6	22.8	23.3	19.9	14.0	8.24	4.04	1.74	0.57	0.06	0.00	138	130
30	0.00	0.04	0.57	1.93	5.00	11.1	20.5	30.4	37.0	37.7	32.1	22.5	12.8	5.92	2.33	0.75	0.10	0.00	221	214
20	0.00	0.06	0.70	2.36	6.50	15.0	28.1	40.7	48.7	49.4	42.5	30.4	17.2	7.71	2.84	0.88	0.13	0.00	293	287
10	0.00	0.07	0.76	2.60	7.39	17.4	32.2	46.2	54.9	55.5	48.3	34.9	19.9	8.75	3.15	0.96	0.14	0.00	333	328
0	0.00	0.07	0.76	2.59	7.37	17.3	32.0	46.0	54.3	55.0	47.9	34.4	19.6	8.64	3.11	0.95	0.14	0.00	330	325
-10	0.00	0.06	0.69	2.32	6.37	14.7	27.4	39.8	47.6	48.2	41.5	29.7	16.7	7.51	2.78	0.88	0.12	0.00	286	281
-20	0.00	0.04	0.56	1.89	4.85	10.8	19.8	29.4	35.6	36.0	30.6	21.5	12.1	5.65	2.23	0.73	0.09	0.00	212	205
-30	0.00	0.01	0.39	1.38	3.27	6.76	11.8	17.6	21.6	22.0	18.6	13.0	7.65	3.78	1.66	0.55	0.05	0.00	130	121
-40	0.00	0.00	0.20	0.88	2.02	3.74	6.13	8.60	10.3	10.4	9.03	6.67	4.21	2.32	1.10	0.34	0.01	0.00	65.9	51.5
-50	0.00	0.00	0.05	0.41	1.07	1.91	2.82	3.71	4.32	4.41	3.94	3.09	2.15	1.30	0.60	0.14	0.00	0.00	29.9	2.57
-60	0.00	0.00	0.00	0.08	0.33	0.72	1.15	1.49	1.70	1.72	1.58	1.28	0.90	0.49	0.17	0.02	0.00	0.00	11.6	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.27	0.33	0.35	0.32	0.24	0.13	0.04	0.00	0.00	0.00	0.00	1.91	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	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	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.00	0.38	5.38	19.4	51.4	114	206	299	358	364	313	225	130	60.8	23.7	7.31	0.87	0.00	2179	---
Φ a	0.00	0.00	0.00	2.01	37.1	102	195	288	348	354	303	214	118	47.5	5.65	0.00	0.00	0.00	---	2015

one-half-peak spread: U:30.9,D:32.4 , L:31.9,R:30.9 NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-11-11
 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:220.7V I:0.2752A P:38.24W PF:1.000 Freq:50.00Hz Lamp Flux:2178.63x1 lm		
NAME: 8.03.012.0128 60° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411022
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

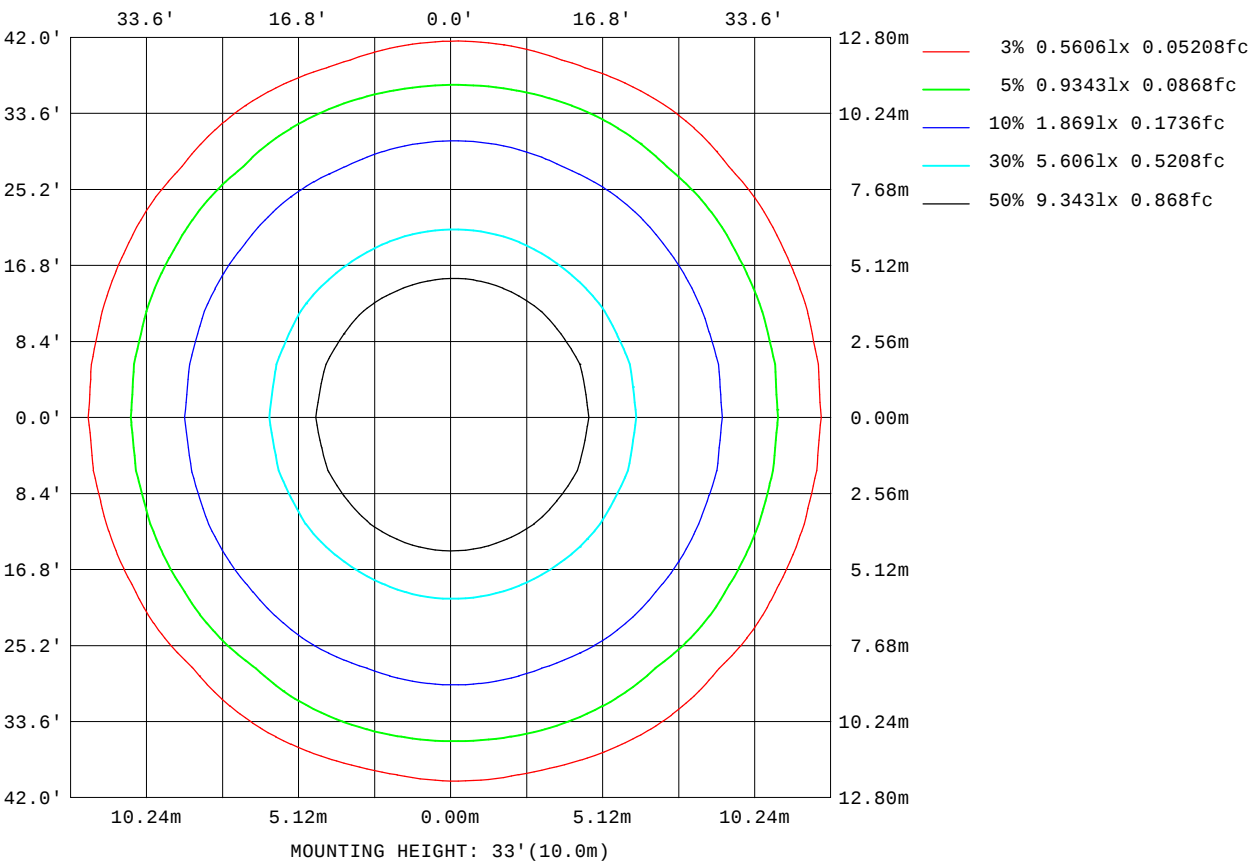


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Test Speed: HIGH
Temperature:28.0DEG
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Test Date:2024-11-11

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:

ISOLUX DIAGRAM

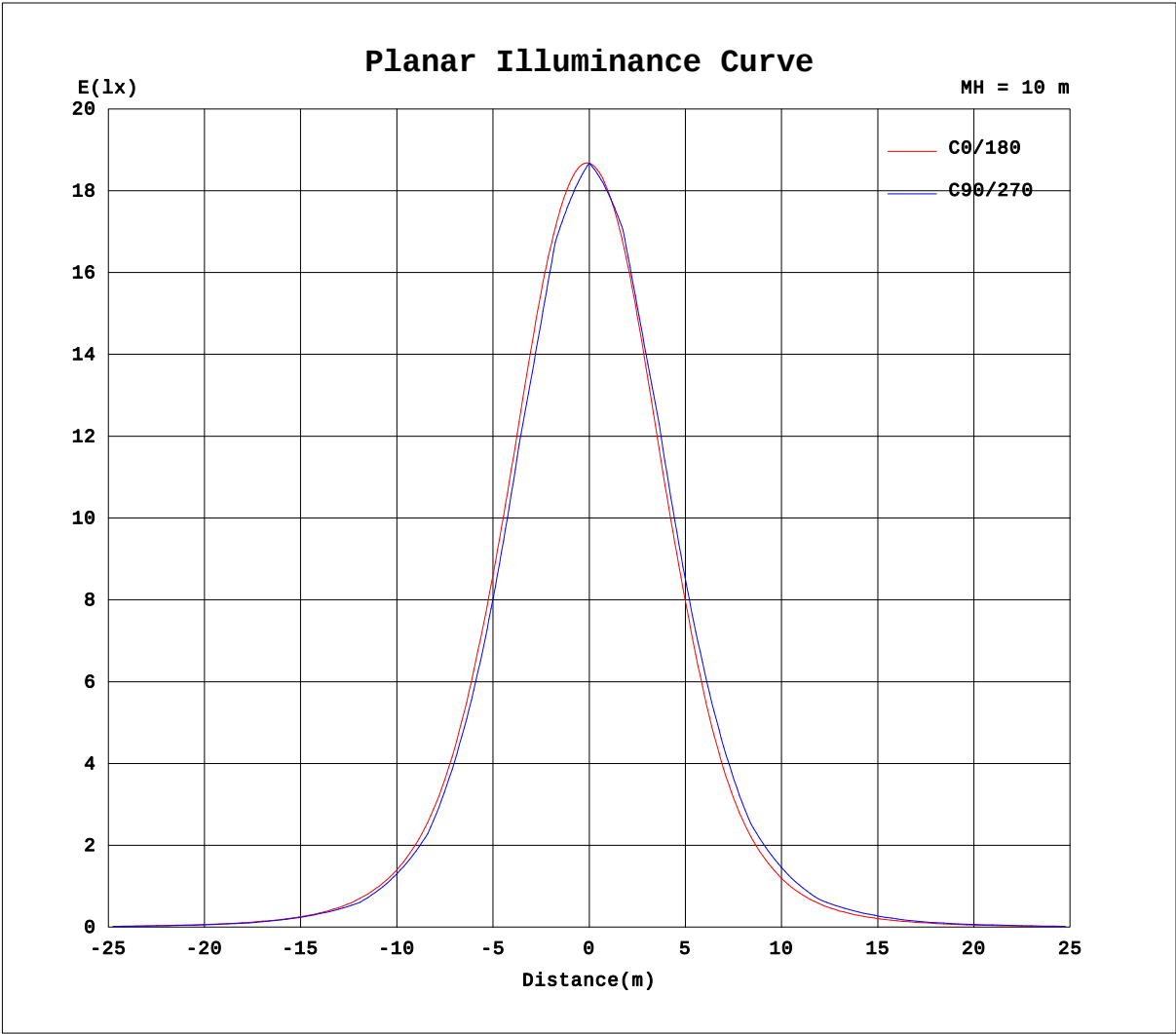
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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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:

Planar Illuminance Curve

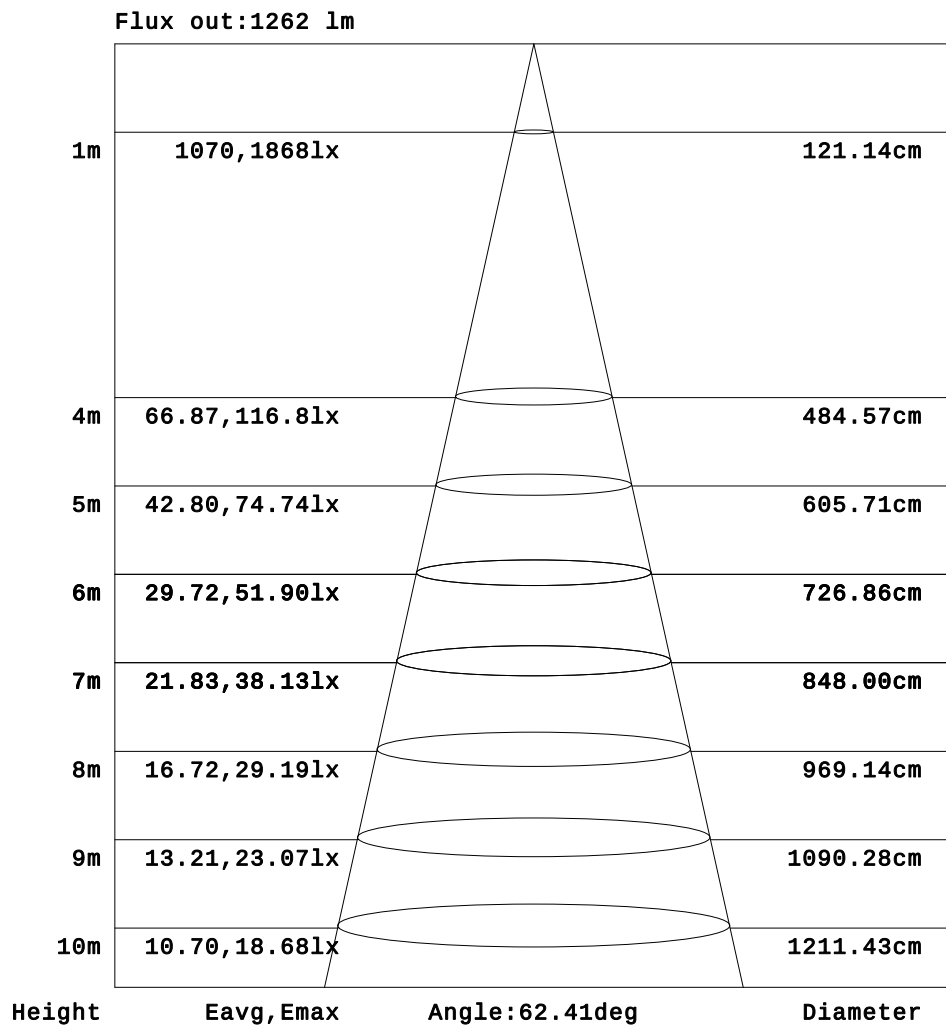


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
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Test Date:2024-11-11

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:

AAI Figure

Test:U:220.7V I:0.2752A P:38.24W PF:1.000 Freq:50.00Hz Lamp Flux:2178.63x1 lm		
NAME: 8.03.012.0128 60° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411022
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.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-11-11

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:220.7V I:0.2752A P:38.24W PF:1.000 Freq:50.00Hz Lamp Flux:2178.63x1 lm		
NAME: 8.03.012.0128 60° SP-EA-R225A-12P-RDM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202411022
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	1.52	4.20	6.93	9.48	11.6	13.2	14.4	15.2	15.9	
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.08	9.48	15.0	19.8	23.9	27.0	29.2	30.8	31.9	
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.19	4.91	9.84	14.8	21.6	29.5	37.4	44.3	50.6	56.1	60.5	63.5	65.1	
-60	0.00	0.00	0.00	0.00	0.00	0.00	1.75	11.8	21.6	31.6	42.3	52.7	62.8	71.3	79.7	87.1	93.3	97.0	98.7	
-55	0.00	0.00	0.00	0.00	0.00	2.06	9.71	21.8	34.7	48.9	63.1	78.4	94.0	109	125	139	151	160	165	
-50	0.00	0.00	0.00	0.00	0.00	7.00	22.0	36.8	53.3	71.7	89.8	110	131	154	176	196	214	226	231	
-45	0.00	0.00	0.00	0.00	0.85	11.8	28.9	47.2	67.6	91.5	118	150	186	226	267	305	336	359	370	
-40	0.00	0.00	0.00	0.00	4.96	23.2	42.9	65.1	91.1	121	158	203	257	314	375	427	469	499	511	
-35	0.00	0.00	0.00	0.00	6.01	25.7	48.2	73.8	104	144	196	261	338	422	511	595	665	714	737	
-30	0.00	0.00	0.00	0.00	14.4	36.8	63.2	93.7	132	186	259	349	451	565	683	794	883	943	965	
-25	0.00	0.00	0.00	0.00	14.3	37.9	66.0	99.3	144	208	298	409	541	689	841	975	1083	1159	1193	
-20	0.00	0.00	0.00	1.51	22.8	49.3	81.0	121	178	263	378	518	688	876	1057	1203	1319	1396	1424	
-15	0.00	0.00	0.00	0.46	20.4	46.9	79.5	120	181	272	395	551	743	952	1151	1321	1456	1547	1587	
-10	0.00	0.00	0.00	4.02	27.5	56.6	92.6	140	216	325	470	656	881	1112	1320	1499	1637	1723	1754	
-5	0.00	0.00	0.00	1.39	23.9	52.0	87.2	134	206	313	459	647	877	1116	1334	1526	1676	1769	1809	
0	0.00	0.00	0.00	6.05	30.3	60.6	98.0	151	232	355	516	725	971	1210	1430	1622	1760	1839	1869	
5	0.00	0.00	0.00	1.62	24.5	52.3	87.4	135	208	317	464	656	889	1129	1345	1540	1691	1785	1825	
10	0.00	0.00	0.00	5.00	28.7	57.3	93.3	143	221	333	481	675	906	1136	1342	1527	1669	1755	1785	
15	0.00	0.00	0.00	0.80	22.3	48.0	80.5	124	187	281	409	572	773	987	1187	1360	1498	1590	1632	
20	0.00	0.00	0.00	2.71	25.2	50.8	83.3	126	186	275	396	545	725	922	1105	1256	1371	1451	1484	
25	0.00	0.00	0.00	0.11	17.2	39.8	67.8	104	151	220	315	433	575	733	892	1030	1142	1220	1258	
30	0.00	0.00	0.00	0.02	17.9	39.2	65.4	98.1	140	199	278	374	486	610	738	854	949	1011	1037	
35	0.00	0.00	0.00	0.00	9.45	28.9	51.1	78.6	111	155	212	283	367	460	557	646	721	775	800	
40	0.00	0.00	0.00	0.00	8.83	26.7	47.0	71.2	98.0	131	172	223	283	350	413	471	519	553	567	
45	0.00	0.00	0.00	0.00	2.58	15.8	32.6	52.5	74.3	99.3	129	164	206	251	297	339	374	400	413	
50	0.00	0.00	0.00	0.00	0.00	11.3	25.6	42.2	60.0	79.0	99.5	121	146	172	198	222	241	255	262	
55	0.00	0.00	0.00	0.00	0.00	4.21	13.1	26.5	40.8	55.7	71.4	87.4	105	123	141	157	171	180	185	
60	0.00	0.00	0.00	0.00	0.00	0.00	5.72	16.4	27.4	38.5	49.7	60.3	71.3	81.5	90.5	98.6	104	108	110	
65	0.00	0.00	0.00	0.00	0.00	0.00	1.77	7.12	12.6	20.3	29.2	37.4	45.3	52.7	59.0	65.0	69.3	72.5	74.2	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.69	12.1	17.7	22.5	26.4	30.2	33.4	36.0	37.9	38.8	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	5.48	8.31	10.8	12.8	14.7	16.4	17.8	18.8	19.4	
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	0.00	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
H(β) Interval: 1.0DEG
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Operators:QC1
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Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

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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	15.8	15.7	15.2	14.1	12.6	10.7	8.49	6.19	3.75	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	31.5	31.2	30.0	27.7	24.5	20.6	16.1	11.4	6.51	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	65.1	63.6	61.4	57.5	52.1	46.3	39.5	32.4	24.7	17.2	11.3	6.21	1.02	0.00	0.00	0.00	0.00	0.00
-60	98.2	95.3	91.4	85.3	77.5	69.4	60.1	50.4	39.7	30.0	20.6	10.3	0.57	0.00	0.00	0.00	0.00	0.00
-55	165	160	151	140	125	110	93.9	78.6	63.6	49.0	36.1	23.0	10.6	2.40	0.00	0.00	0.00	0.00
-50	230	221	207	188	166	144	121	101	81.5	62.6	46.3	30.6	16.3	2.19	0.00	0.00	0.00	0.00
-45	369	355	331	298	260	220	180	144	113	86.9	64.6	44.8	27.0	10.5	0.28	0.00	0.00	0.00
-40	505	481	442	393	337	279	224	175	133	102	74.8	51.4	30.9	12.7	0.01	0.00	0.00	0.00
-35	732	701	646	572	487	400	317	243	180	133	96.3	67.3	42.8	21.6	3.65	0.00	0.00	0.00
-30	951	902	822	719	602	486	380	284	206	148	105	72.8	45.8	22.6	3.00	0.00	0.00	0.00
-25	1183	1131	1046	929	790	638	494	368	266	186	128	88.2	57.0	30.8	9.23	0.00	0.00	0.00
-20	1400	1331	1227	1087	917	730	555	408	289	197	133	90.2	57.1	29.7	7.46	0.00	0.00	0.00
-15	1576	1515	1409	1259	1079	877	673	492	349	236	157	105	68.1	37.8	13.9	0.00	0.00	0.00
-10	1735	1663	1537	1363	1163	942	713	514	359	239	157	104	66.1	35.4	11.4	0.00	0.00	0.00
-5	1800	1740	1626	1456	1251	1028	789	572	401	269	176	115	73.9	41.6	16.6	0.00	0.00	0.00
0	1850	1781	1655	1470	1252	1020	772	553	384	256	166	107	67.8	36.8	12.3	0.00	0.00	0.00
5	1816	1756	1642	1470	1264	1039	797	578	405	272	177	116	73.7	41.8	17.0	0.00	0.00	0.00
10	1766	1695	1567	1391	1188	963	728	525	367	243	159	105	65.7	35.9	12.3	0.00	0.00	0.00
15	1624	1563	1450	1297	1113	905	694	507	359	243	160	107	68.1	38.5	15.1	0.00	0.00	0.00
20	1465	1393	1278	1133	957	762	579	424	301	204	136	91.6	57.4	30.9	8.93	0.00	0.00	0.00
25	1252	1199	1104	980	832	672	520	387	278	193	132	90.6	57.9	32.2	11.1	0.00	0.00	0.00
30	1025	973	885	771	644	519	404	301	217	154	109	75.0	46.9	24.8	4.67	0.00	0.00	0.00
35	797	763	701	619	526	430	340	259	191	139	100	70.1	44.4	23.7	5.03	0.00	0.00	0.00
40	560	532	488	431	369	305	242	187	141	107	78.6	54.0	32.7	15.1	0.01	0.00	0.00	0.00
45	412	395	366	328	285	240	196	155	120	92.6	68.6	47.4	28.7	12.8	0.66	0.00	0.00	0.00
50	259	248	231	209	184	157	132	109	87.3	68.3	49.9	32.8	18.1	4.04	0.00	0.00	0.00	0.00
55	185	180	169	155	138	120	102	85.0	68.8	53.8	38.9	25.0	12.4	3.51	0.00	0.00	0.00	0.00
60	110	107	102	95.1	86.2	76.4	65.7	54.8	44.0	33.3	22.2	12.0	1.62	0.00	0.00	0.00	0.00	0.00
65	74.4	73.1	69.7	65.3	59.1	52.5	45.2	37.5	29.4	20.9	12.3	6.97	1.90	0.00	0.00	0.00	0.00	0.00
70	38.6	37.7	35.9	33.2	29.4	25.8	21.7	17.1	11.4	4.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	19.4	19.0	18.2	16.9	15.0	13.3	11.2	9.04	6.31	3.11	0.07	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:2024-11-11

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: