

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

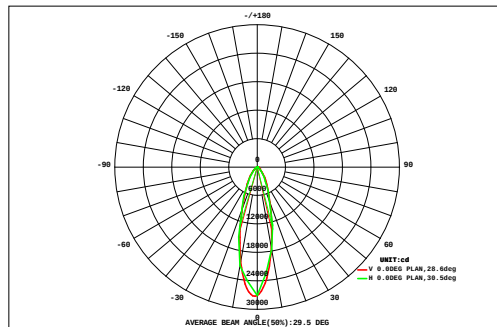
Maximum Intensity (Luminaire orientation as tested.)		2277.3 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	69.3V x 72.0H
	At 50% of Imax	30.2V x 28.6H
	At 90% of Imax	7.4V x 10.2H
Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	792.1 lumens per klm.
	To 50% of Imax	316.9 lumens per klm.
	To 90% of Imax	33.5 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:27.9DEG
Operators:QC1
Test Date:2024-04-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:71%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:1.050A P:226.0W PF:0.9779 Lamp Flux:11954.9x1 lm		
NAME: 8.03.006.0119 30°SP-F620A-72P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202404000054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:52.91lm/W	
MODEL	SP-F620A-72P-RDM	Imax(cd)	27225
NOMINAL POWER(W)	226	AVAILABILITY(%)	79.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	9499
NOMINAL FLUX(lm)	11954.9	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	11955
TEST VOLTAGE(V)	220.1	θ @50%(H,V)	29,30DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	72	0.00	0.06	0.24	0.49	0.81	1.19	1.57	1.77	1.89	1.89	1.78	1.53	1.14	0.77	0.47	0.23	0.05	0.01	15.9	0.00	
	64	0.08	0.34	0.77	1.42	2.33	3.31	4.26	5.02	5.43	5.44	5.05	4.27	3.32	2.28	1.39	0.77	0.33	0.07	45.9	0.00	
	56	0.19	0.64	1.43	2.82	4.66	6.79	9.00	10.8	11.9	12.0	11.1	9.29	7.07	4.88	2.90	1.52	0.71	0.22	97.9	0.00	
	48	0.34	1.04	2.36	4.79	8.10	12.2	16.6	20.5	22.9	23.2	21.2	17.5	13.0	8.74	5.16	2.58	1.17	0.38	182	0.00	
	40	0.56	1.62	3.91	7.86	13.6	21.1	29.6	37.3	42.1	42.3	37.7	30.0	21.4	13.7	7.82	3.76	1.58	0.50	316	29.5	
	32	0.73	2.22	5.57	11.4	20.6	34.0	50.2	65.9	76.1	75.9	65.7	49.9	33.8	20.7	11.3	5.29	2.07	0.67	532	333	
	24	0.84	2.65	6.94	14.9	28.6	50.6	82.0	118	144	144	117	82.0	52.1	30.0	15.7	7.22	2.73	0.87	901	762	
		0.89	2.88	7.74	17.3	34.9	65.1	117	198	279	282	204	124	72.4	39.8	20.1	9.07	3.36	1.06	1479	1362	
		0.97	3.15	8.51	19.3	39.8	76.6	145	272	418	428	288	157	85.3	45.6	22.5	9.93	3.64	1.14	2024	1917	
		1.10	3.56	9.39	21.1	43.6	84.6	167	328	498	476	296	153	81.9	43.4	21.1	9.20	3.35	1.04	2241	2134	
		1.00	3.15	8.29	18.4	37.4	70.6	132	240	355	354	241	135	74.8	40.2	20.1	9.03	3.36	1.06	1745	1630	
	-24	0.83	2.57	6.70	14.3	27.5	49.3	82.3	127	171	183	148	97.6	59.1	33.7	17.6	8.22	3.20	1.06	1033	898	
	-32	0.69	2.08	5.22	10.9	19.8	33.6	52.4	73.1	88.4	91.2	80.1	60.6	40.6	24.8	13.8	6.79	2.77	0.96	608	424	
	-40	0.59	1.72	4.06	8.11	14.0	22.1	31.2	38.8	42.5	42.7	39.7	33.0	24.2	15.9	9.45	4.85	2.10	0.76	336	7.53	
	-48	0.51	1.41	3.10	5.82	9.43	13.7	18.1	21.5	23.4	23.3	21.2	17.7	13.5	9.29	5.71	2.96	1.41	0.52	193	0.00	
-56	0.33	0.92	1.85	3.39	5.32	7.51	9.73	11.6	12.6	12.7	11.9	10.3	8.04	5.77	3.67	2.01	1.03	0.39	109	0.00		
-64	0.15	0.51	1.03	1.79	2.83	3.94	5.03	5.97	6.52	6.61	6.30	5.54	4.50	3.35	2.20	1.31	0.67	0.25	58.5	0.00		
-72	0.04	0.21	0.49	0.84	1.29	1.79	2.24	2.59	2.77	2.78	2.66	2.37	1.95	1.48	1.01	0.62	0.31	0.10	25.5	0.00		
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72		
Φ t	9.85	30.7	77.6	165	315	558	954	1579	2202	2207	1599	990	598	344	182	85.4	33.8	11.1	11942	---		
Φ a	0.00	0.00	0.00	0.00	63.5	363	783	1416	2043	2054	1440	822	416	98.0	0.00	0.00	0.00	0.00	---	9499		

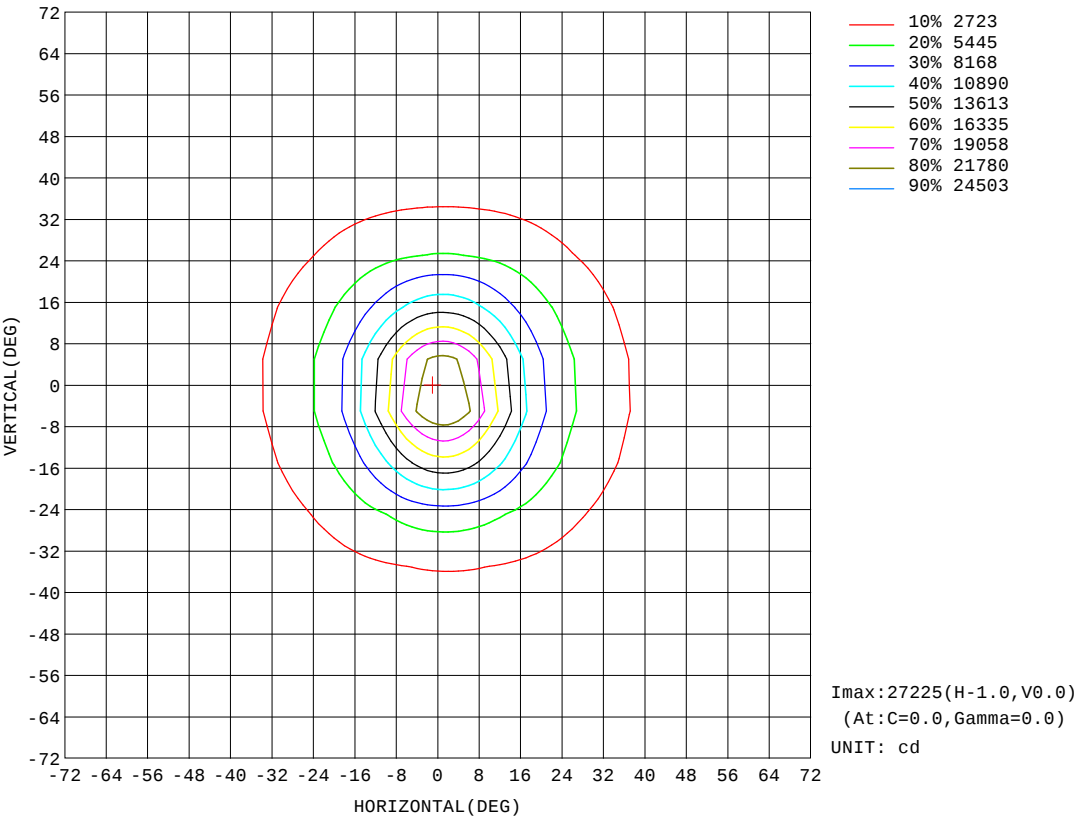
one-half-peak spread: U:16.3,D:14.1 , L:14.5, ~~NEVA~~ Beam Type: Type 5 x 4 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.9DEG
Operators:QC1
Test Date:2024-04-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:71%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.1V I:1.050A P:226.0W PF:0.9779 Lamp Flux:11954.9x1 lm		
NAME: 8.03.006.0119 30°SP-F620A-72P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202404000054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

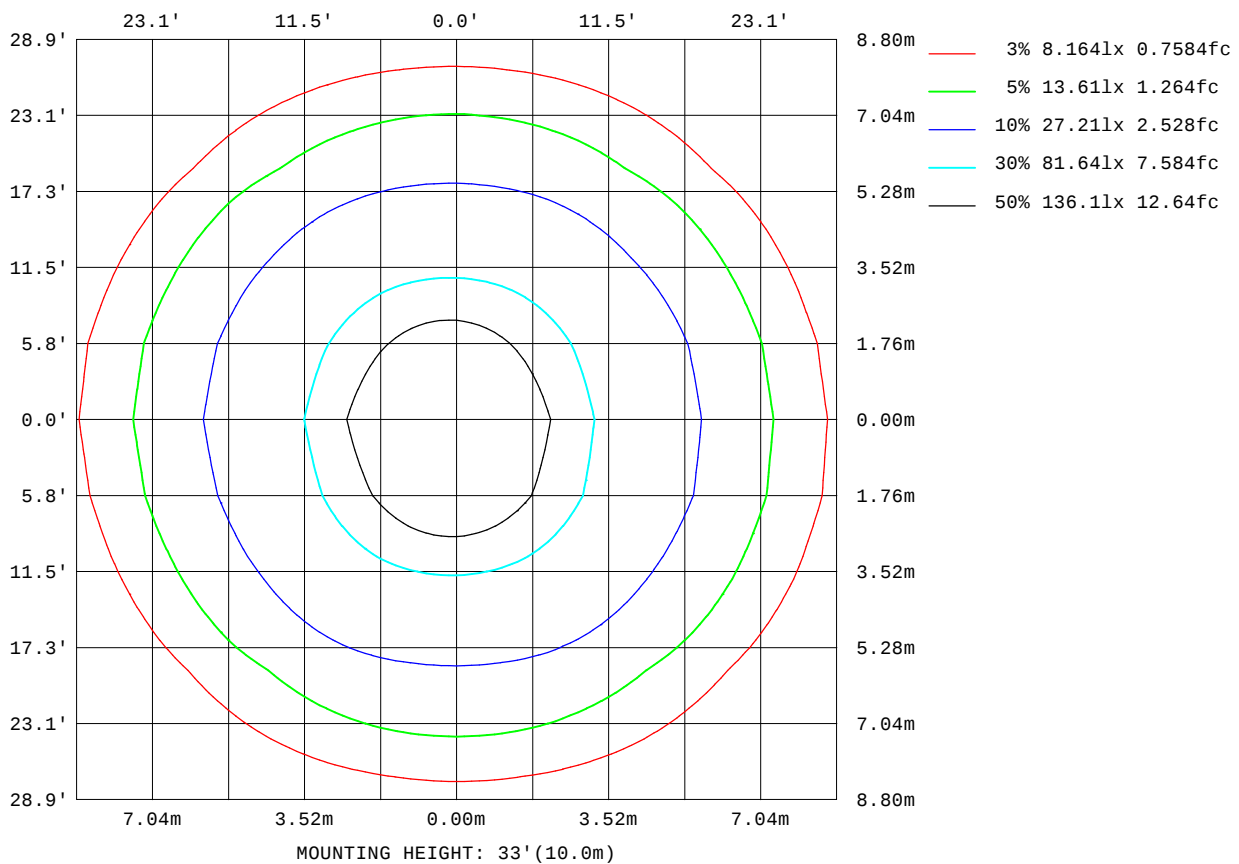


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V(B) Interval: 5.0DEG
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Humidity:71%
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Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:202404000054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

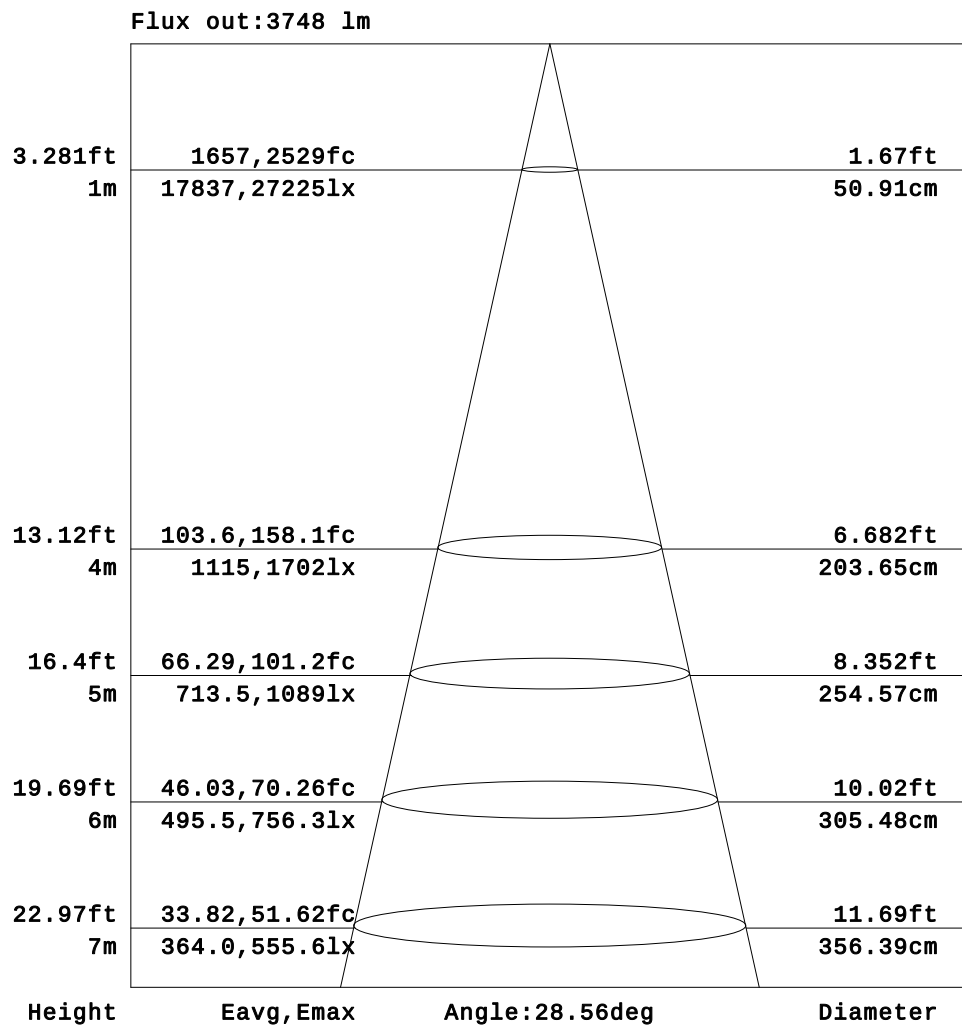


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.9DEG
Operators:QC1
Test Date:2024-04-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:71%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

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DIM.:	SPEC.:	SERIAL No.:202404000054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

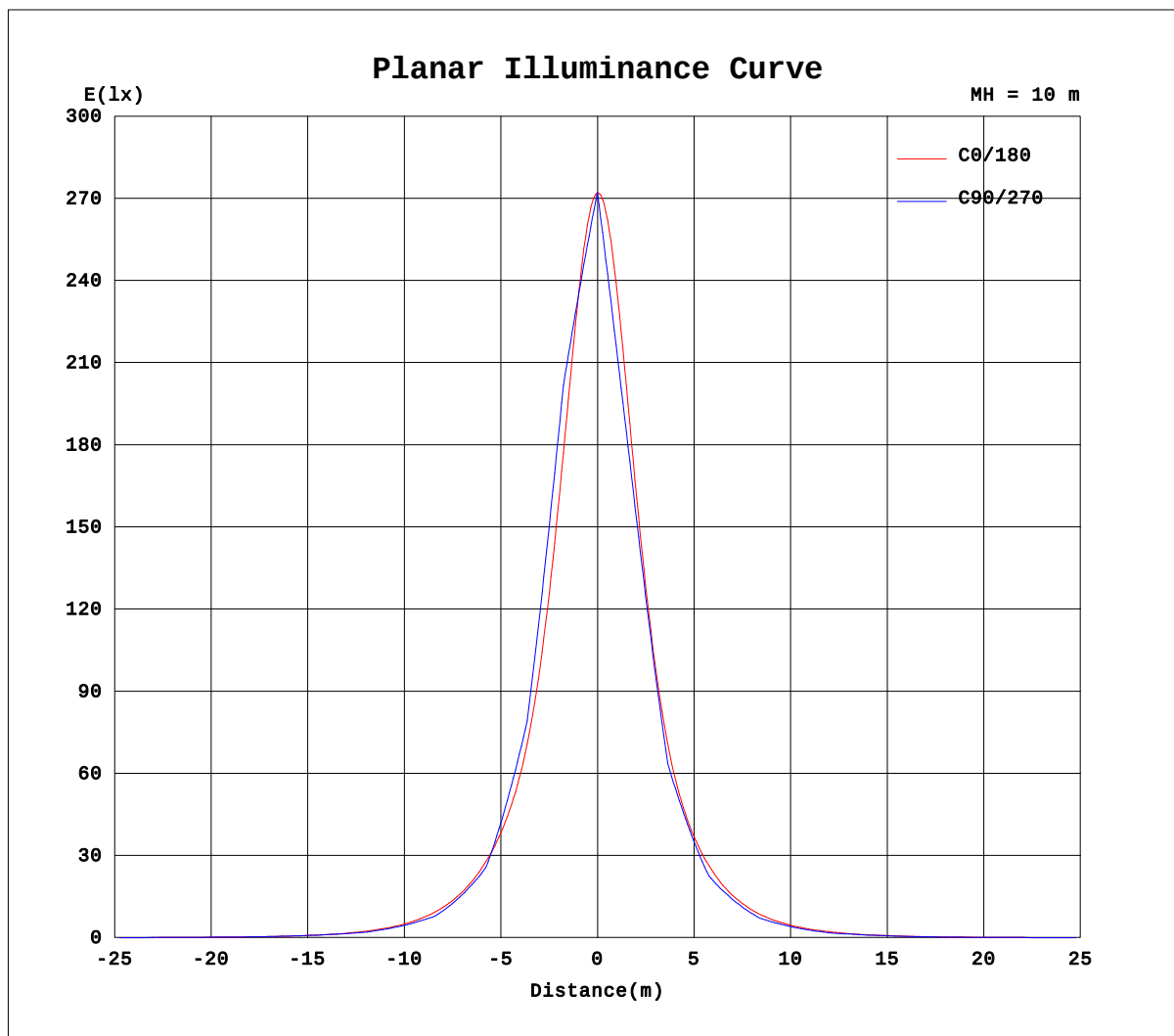


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.9DEG
Operators:QC1
Test Date:2024-04-23

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:71%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 27.9DEG
Operators: QC1
Test Date: 2024-04-23

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity: 71%
Test Distance: 8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:1.050A P:226.0W PF:0.9779 Lamp Flux:11954.9x1 lm		
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DIM.:	SPEC.:	SERIAL No.:202404000054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--1		UNIT: ×10cd																	
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	0.09	0.25	0.46	0.66	0.83	1.05	1.21	1.30	1.30	1.27
-75	0.00	0.00	0.00	0.00	0.00	0.27	0.73	1.22	1.75	2.25	2.81	3.42	4.11	4.70	5.26	5.76	6.01	6.18	6.24
-70	0.00	0.00	0.00	0.00	0.00	0.91	1.87	2.85	3.90	4.85	5.83	6.92	8.08	9.02	9.94	10.5	10.9	11.1	11.1
-65	0.00	0.00	0.00	0.00	0.58	1.71	3.18	4.80	6.48	8.30	10.3	12.6	14.7	16.7	18.6	20.3	21.5	22.3	22.7
-60	0.00	0.00	0.00	0.22	1.80	3.64	5.85	8.02	10.5	13.3	16.7	19.9	22.9	26.0	28.6	31.1	32.8	33.8	34.1
-55	0.00	0.00	0.00	0.33	2.02	4.33	7.17	10.2	13.7	18.3	23.5	28.8	34.3	39.8	45.2	50.1	53.9	56.5	57.9
-50	0.00	0.00	0.00	1.49	3.90	7.32	10.9	15.1	20.4	27.4	34.6	42.2	50.1	58.1	65.7	72.4	77.4	80.6	81.8
-45	0.00	0.00	0.00	1.16	3.77	7.31	11.8	17.0	24.3	33.6	43.9	55.3	67.9	81.3	94.8	107	118	126	130
-40	0.00	0.00	0.24	2.79	6.19	10.7	16.6	24.2	35.4	48.0	62.2	78.3	96.3	115	134	152	166	176	179
-35	0.00	0.00	0.00	2.04	5.41	10.2	16.5	25.2	38.0	53.7	72.3	94.7	122	152	186	220	251	275	286
-30	0.00	0.00	0.74	3.77	8.23	14.3	22.7	35.5	52.5	73.6	99.4	131	171	216	265	315	358	386	396
-25	0.00	0.00	0.07	2.76	6.91	12.8	21.3	34.4	53.2	77.2	108	148	199	263	344	438	540	627	673
-20	0.00	0.00	1.18	4.62	9.95	17.5	29.0	47.4	71.5	104	146	202	276	374	495	643	798	918	954
-15	0.00	0.00	0.22	3.27	8.06	15.1	25.3	42.6	66.7	99.3	145	206	288	398	554	778	1066	1359	1526
-10	0.00	0.00	1.40	5.11	11.0	19.8	33.5	55.7	85.6	127	188	270	382	536	775	1133	1581	1978	2111
-5	0.00	0.00	0.40	3.60	8.75	16.4	28.2	48.1	75.9	115	170	247	355	502	726	1085	1582	2108	2407
0	0.00	0.00	1.62	5.55	11.8	21.0	36.6	60.8	94.2	141	209	303	435	621	927	1408	2022	2563	2708
5	0.00	0.00	0.46	3.66	8.80	16.5	28.4	48.6	76.7	116	172	249	357	501	719	1056	1510	1981	2238
10	0.00	0.00	1.50	5.21	11.1	20.0	34.1	56.7	87.4	130	191	273	383	532	749	1046	1394	1684	1759
15	0.00	0.00	0.30	3.29	8.00	15.0	25.3	43.2	67.7	101	147	208	289	394	537	724	945	1155	1264
20	0.00	0.00	1.17	4.49	9.65	17.2	28.9	47.7	72.1	105	147	202	273	363	464	574	676	747	766
25	0.00	0.00	0.10	2.60	6.57	12.3	20.7	34.0	52.8	77.0	108	147	197	256	327	401	473	529	556
30	0.00	0.00	0.66	3.39	7.56	13.3	21.6	34.4	51.2	72.2	97.8	129	166	207	249	288	320	341	347
35	0.00	0.00	0.00	1.66	4.66	9.12	15.2	23.4	35.9	51.4	69.7	91.7	117	146	175	204	228	246	254
40	0.00	0.00	0.02	2.06	5.11	9.32	14.4	21.5	32.4	44.5	58.4	74.1	91.2	109	125	140	152	160	162
45	0.00	0.00	0.00	0.65	2.73	5.87	9.68	14.3	21.2	30.1	40.0	51.0	62.9	75.2	87.5	98.5	107	114	117
50	0.00	0.00	0.00	0.74	2.67	5.43	8.24	11.9	16.8	23.5	30.2	37.2	44.5	51.8	58.8	64.6	68.9	71.4	72.2
55	0.00	0.00	0.00	0.08	1.03	2.80	4.97	7.54	10.7	14.8	19.6	24.5	29.5	34.6	39.4	43.7	47.0	49.2	50.2
60	0.00	0.00	0.00	0.00	0.65	1.94	3.68	5.49	7.56	9.86	12.9	15.8	18.5	21.2	23.7	25.6	27.2	28.0	28.2
65	0.00	0.00	0.00	0.00	0.12	0.70	1.49	2.78	4.09	5.55	7.33	9.23	11.0	12.8	14.6	15.9	16.9	17.5	17.8
70	0.00	0.00	0.00	0.00	0.00	0.00	0.35	1.09	1.79	2.51	3.31	4.13	5.00	5.84	6.75	6.88	7.21	7.38	7.38
75	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.40	0.74	1.12	1.49	1.89	2.34	2.74	3.24	3.43	3.53	3.67	3.70
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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Temperature:27.9DEG
Operators:QC1
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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:71%
Test Distance:8.300m [K=1.0000]
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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:202404000054
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--2																		UNIT: ×10cd	
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	1.23	1.12	1.03	0.90	0.74	0.57	0.31	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	6.15	6.07	5.84	5.51	5.03	4.52	3.88	3.23	2.66	2.20	1.67	1.14	0.67	0.22	0.00	0.00	0.00	0.00	
-70	11.0	10.9	10.4	9.75	8.92	8.01	6.92	5.90	4.93	3.98	2.93	1.89	0.97	0.10	0.00	0.00	0.00	0.00	
-65	22.5	22.2	21.4	20.1	18.4	16.6	14.6	12.4	10.1	8.14	6.31	4.67	3.01	1.58	0.50	0.00	0.00	0.00	
-60	33.8	33.0	31.5	29.1	26.5	23.7	20.5	17.1	13.5	10.8	8.35	6.10	3.86	2.01	0.30	0.00	0.00	0.00	
-55	57.8	56.4	53.8	49.9	44.9	39.6	34.1	28.5	22.8	17.3	13.1	9.78	6.82	3.95	1.70	0.08	0.00	0.00	
-50	80.9	78.0	73.3	66.8	59.2	51.1	43.1	35.4	27.3	20.2	15.1	11.0	7.47	3.96	1.50	0.00	0.00	0.00	
-45	130	125	117	106	93.4	79.9	66.6	53.9	42.3	31.3	22.3	16.0	10.9	6.46	3.10	0.55	0.00	0.00	
-40	176	167	153	136	117	97.9	79.6	63.0	48.1	34.5	24.0	16.7	10.6	5.90	2.56	0.00	0.00	0.00	
-35	285	271	245	215	181	149	119	92.3	70.0	50.9	34.7	23.1	14.9	8.97	4.46	1.33	0.00	0.00	
-30	386	358	314	267	219	174	136	103	75.9	53.6	35.1	22.5	14.0	8.05	3.63	0.62	0.00	0.00	
-25	660	595	504	410	324	252	191	142	103	72.4	48.3	30.2	18.9	11.0	5.53	1.89	0.00	0.00	
-20	892	765	617	481	368	278	205	148	104	70.8	45.1	27.8	16.9	9.36	4.24	0.89	0.00	0.00	
-15	1470	1229	938	684	500	370	268	192	134	91.6	59.7	36.1	21.8	12.4	6.14	2.11	0.00	0.00	
-10	1886	1459	1039	724	517	376	266	186	127	84.6	53.0	31.5	18.4	10.1	4.46	0.97	0.00	0.00	
-5	2275	1808	1289	879	613	443	316	221	152	101	65.0	38.6	22.8	12.7	6.16	2.04	0.00	0.00	
0	2342	1732	1176	790	557	402	284	196	132	86.3	53.2	31.3	18.2	9.69	4.14	0.74	0.00	0.00	
5	2106	1681	1211	840	594	432	310	217	149	98.8	63.0	37.3	22.0	12.1	5.72	1.78	0.00	0.00	
10	1575	1246	919	665	488	357	254	178	122	80.4	49.4	29.3	16.9	9.00	3.76	0.55	0.00	0.00	
15	1212	1030	810	613	461	346	253	181	126	85.5	54.7	32.8	19.6	10.8	5.02	1.44	0.00	0.00	
20	726	640	534	429	336	256	189	136	95.7	64.3	39.7	24.4	14.4	7.59	3.09	0.24	0.00	0.00	
25	545	500	435	362	292	229	175	130	93.3	64.6	41.7	25.9	15.8	8.79	4.01	0.96	0.00	0.00	
30	335	312	279	238	196	157	122	91.8	66.5	45.5	29.2	18.4	10.9	5.69	2.21	0.00	0.00	0.00	
35	251	239	218	191	162	133	106	81.5	60.7	42.7	28.3	18.6	11.5	6.33	2.77	0.36	0.00	0.00	
40	159	150	137	121	104	86.2	69.3	53.9	40.0	27.3	19.0	12.6	7.54	3.69	1.17	0.00	0.00	0.00	
45	116	112	104	93.7	81.8	69.2	56.9	45.3	34.2	24.3	17.0	11.8	7.41	3.77	1.40	0.01	0.00	0.00	
50	71.2	68.3	63.5	57.0	49.8	42.3	34.9	27.5	20.2	14.7	10.5	7.33	4.10	1.75	0.11	0.00	0.00	0.00	
55	49.9	48.6	45.8	41.8	37.1	32.1	26.9	21.6	16.5	12.1	8.83	6.11	3.75	1.63	0.35	0.00	0.00	0.00	
60	27.8	27.0	25.2	23.0	20.5	17.7	14.6	11.4	8.99	6.77	4.88	2.95	1.47	0.24	0.00	0.00	0.00	0.00	
65	17.7	17.3	16.5	15.3	13.6	11.9	9.98	7.94	6.25	4.76	3.40	2.06	1.01	0.34	0.00	0.00	0.00	0.00	
70	7.36	7.12	6.96	6.25	5.43	4.52	3.71	2.98	2.33	1.65	0.85	0.15	0.00	0.00	0.00	0.00	0.00	0.00	
75	3.68	3.62	3.51	3.31	2.88	2.45	2.02	1.62	1.30	0.94	0.60	0.21	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:27.9DEG
Operators:QC1
Test Date:2024-04-23

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:71%
Test Distance:8.300m [K=1.0000]
Remarks: