

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

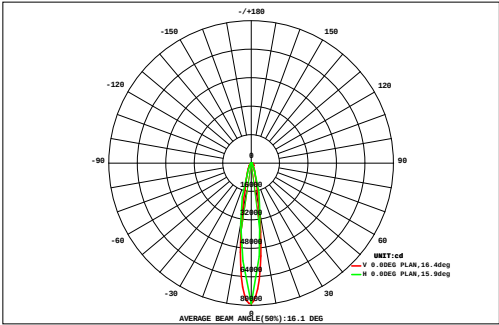
Maximum Intensity (Luminaire orientation as tested.)		5996.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	38.3V x 37.3H
	At 50% of Imax	15.9V x 16.4H
	At 90% of Imax	4.7V x 6.7H
Beam Flux	Total	997.9 lumens per klm.
	To 10% of Imax	626.2 lumens per klm.
	To 50% of Imax	250.0 lumens per klm.
	To 90% of Imax	25.6 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.8 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.7DEG
Operators:QC1
Test Date:2024-04-24

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:219.7V I:1.081A P:232.8W PF:0.9800 Lamp Flux:13163x1 lm		
NAME: 8.03.006.0118 15°SP-F620A-72P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202404000055
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:56.55lm/W	
MODEL	SP-F620A-72P-RDM	Imax(cd)	78934
NOMINAL POWER(W)	232	AVAILABILITY(%)	63.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	8385
NOMINAL FLUX(lm)	13163	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	13163
TEST VOLTAGE(V)	219.7	θ @50%(H,V)	16,16DEG

AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
27	4.62	5.23	5.90	6.62	7.37	8.11	8.78	9.29	9.58	9.58	9.28	8.72	7.99	7.19	6.40	5.66	4.98	4.36	130	0.00
24	5.03	5.91	6.91	8.12	9.44	10.9	12.3	13.6	14.5	14.8	14.4	13.5	12.1	10.6	9.13	7.80	6.65	5.66	181	0.00
21	6.19	7.33	8.69	10.3	12.0	13.9	15.6	17.0	17.9	17.8	16.9	15.4	13.5	11.6	9.84	8.30	6.99	5.89	215	0.00
18	7.43	8.85	10.6	12.6	14.8	17.0	19.1	20.6	21.3	20.8	19.4	17.2	14.8	12.5	10.4	8.69	7.24	6.05	249	17.2
15	6.98	8.74	11.0	13.9	17.8	23.4	31.7	42.6	52.8	57.4	53.7	44.0	33.0	24.2	18.0	13.8	10.7	8.45	472	361
12	7.98	10.2	13.1	17.0	22.5	30.9	43.3	58.6	71.4	75.0	67.5	53.3	38.8	27.8	20.3	15.3	11.7	9.05	593	491
9	10.4	13.5	17.6	23.2	31.6	44.7	63.4	83.1	94.6	90.5	74.0	53.6	36.9	26.0	18.9	14.1	10.7	8.14	715	622
6	9.49	12.4	16.3	21.6	29.8	44.4	70.3	105	134	142	128	97.2	63.7	39.4	25.9	18.2	13.4	10.1	980	898
3	8.32	10.9	14.4	19.2	27.1	42.8	76.3	127	175	198	187	145	93.3	54.3	33.5	22.7	16.4	12.2	1264	1185
0	11.9	15.8	21.3	30.1	47.4	84.9	146	208	238	228	181	116	64.8	37.1	24.2	17.2	12.7	9.49	1494	1419
-3	11.5	15.3	20.6	29.0	45.2	80.3	138	198	230	223	180	118	66.9	38.6	25.1	17.7	13.1	9.78	1459	1381
-6	7.37	9.43	12.1	15.2	18.7	22.9	36.0	65.2	103	129	133	113	77.7	47.7	30.3	21.0	15.5	11.7	868	770
-9	8.23	10.5	13.4	16.9	21.4	27.4	38.3	57.7	79.6	90.5	86.7	70.1	49.5	33.0	22.8	16.7	12.7	9.70	665	564
-12	9.38	12.0	15.2	19.5	25.7	34.9	45.4	55.3	58.9	51.1	36.9	22.2	17.2	16.0	14.1	11.7	9.40	7.41	462	337
-15	6.10	7.39	8.97	10.9	13.2	16.0	20.4	27.4	37.0	45.0	46.2	40.9	31.4	23.0	17.1	13.3	10.6	8.47	383	253
-18	5.38	6.27	7.28	8.38	9.25	9.52	9.64	10.8	15.2	22.0	26.1	26.6	22.5	17.6	13.7	11.1	9.08	7.48	238	88.2
-21	6.05	6.90	7.84	8.81	9.57	9.81	8.74	5.84	3.15	2.00	1.84	2.31	3.87	5.60	6.20	5.97	5.44	4.83	105	0.00
-24	4.82	5.48	6.16	6.87	7.46	7.73	7.24	6.65	7.12	7.39	7.35	7.03	6.49	6.15	6.23	5.86	5.30	4.71	116	0.00
-27	-27	-24	-21	-18	-15	-12	-9	-6	HORIZONTAL(DEG)	6	9	12	15	18	21	24	27			
Φ t	137	172	217	278	370	530	790	1112	1363	1423	1268	965	654	438	312	235	183	143	10591	---
Φ a	0.00	0.00	30.9	109	243	426	693	1029	1284	1349	1193	890	582	350	158	48.0	0.00	0.00	---	8385

one-half-peak spread: U:8.7,D:7.4 , L:8.6,R:7.9

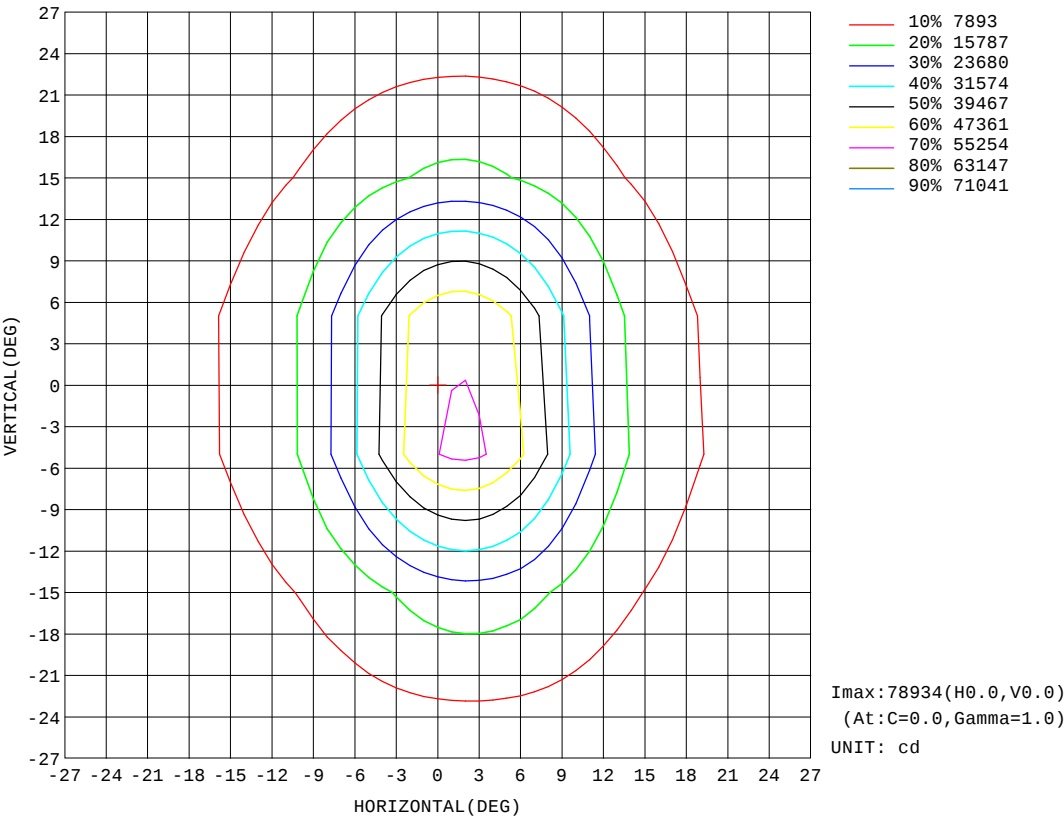
NEMA Beam Type: Type 3

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.7DEG
Operators:QC1
Test Date:2024-04-24

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:

ISOCANDELA DIAGRAM

Test:U:219.7V I:1.081A P:232.8W PF:0.9800 Lamp Flux:13163x1 lm		
NAME: 8.03.006.0118 15°SP-F620A-72P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202404000055
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

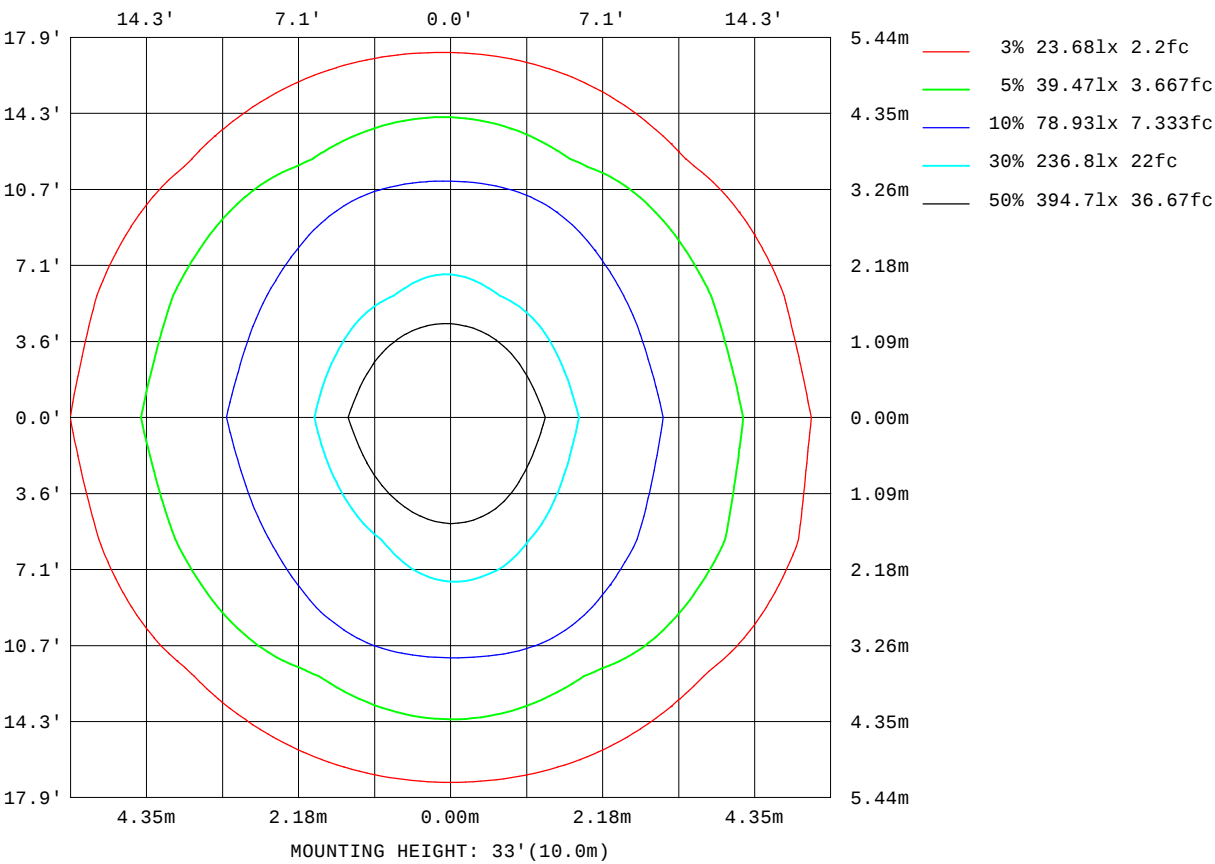


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Humidity:83%
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Remarks:

ISOLUX DIAGRAM

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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

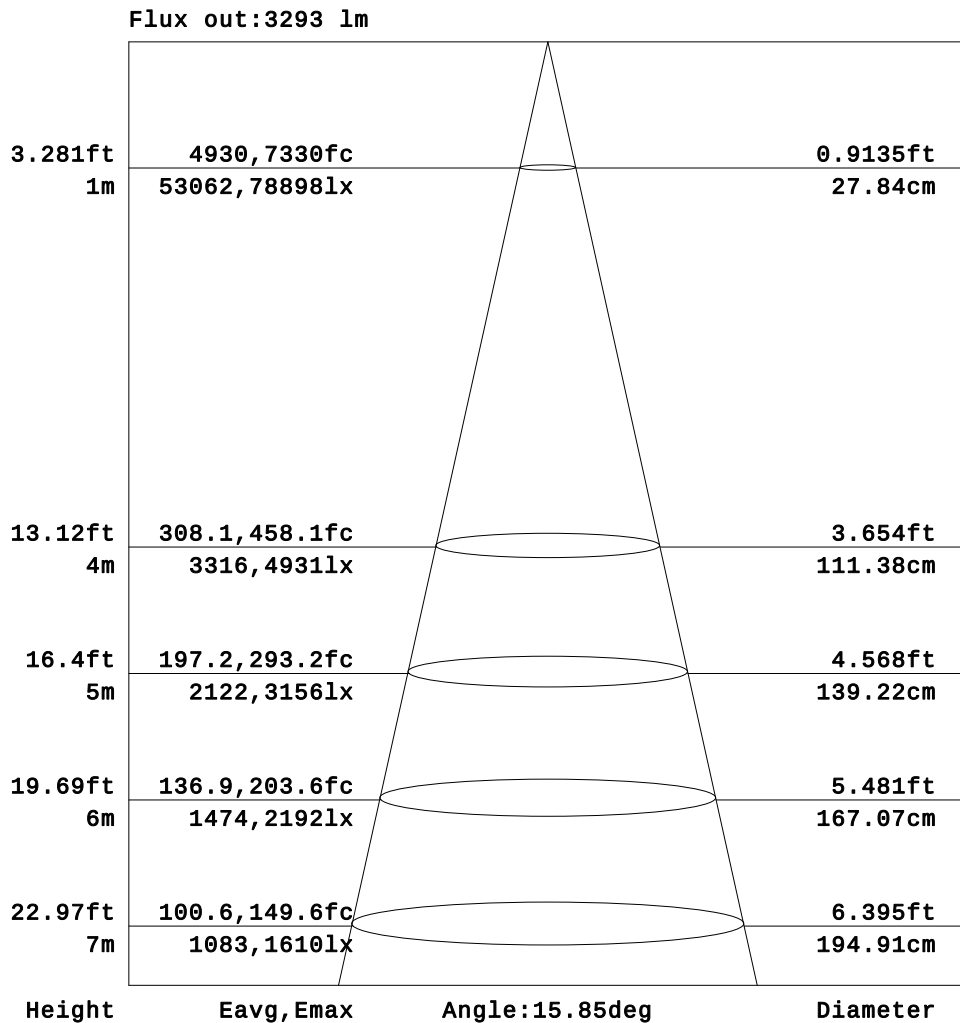


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.7DEG
Operators:QC1
Test Date:2024-04-24

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

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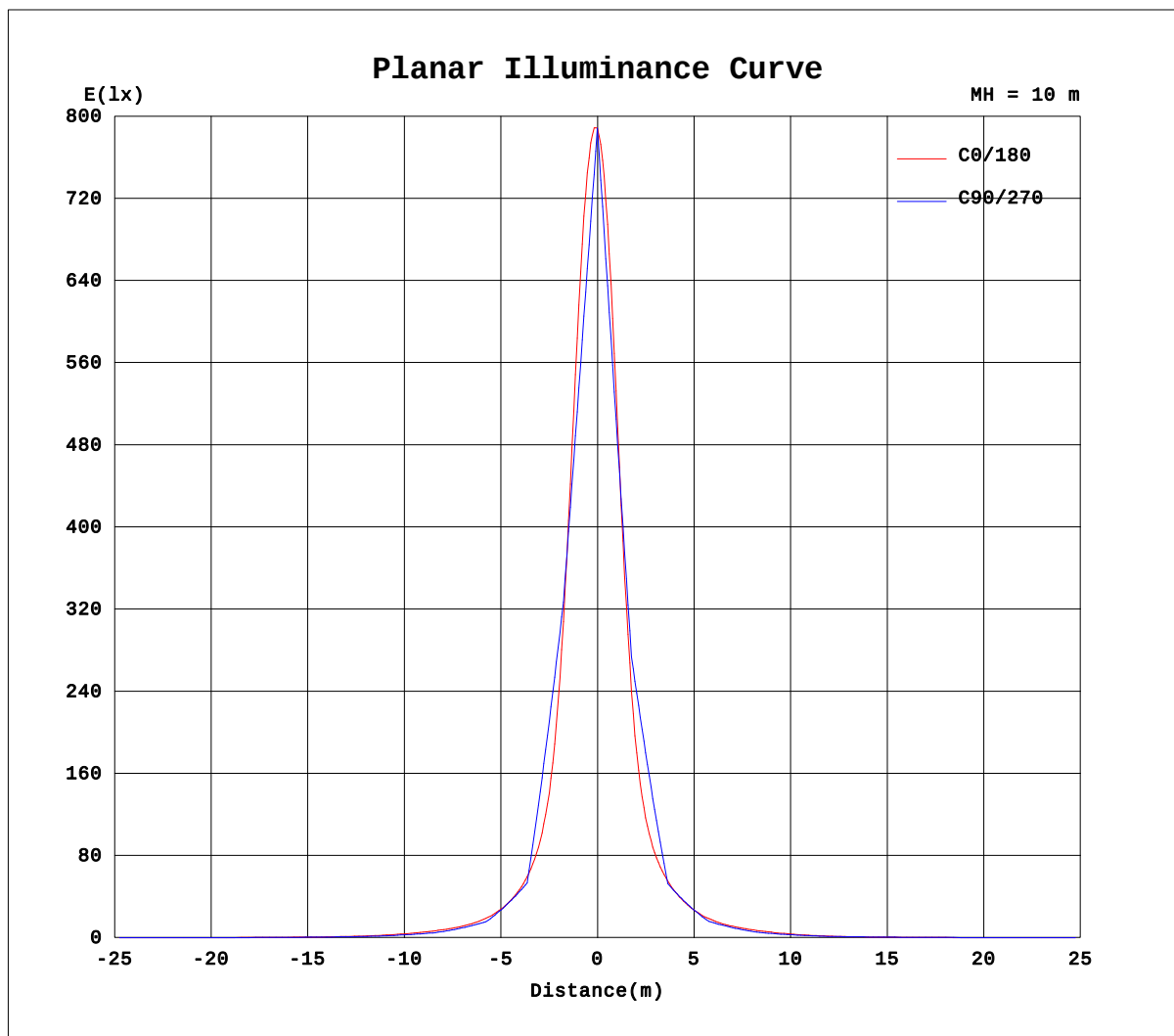


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
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Operators:QC1
Test Date:2024-04-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

Planar Illuminance Curve



H(β) Range: -90 - 90DEG
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Temperature: 27.7DEG
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Test Date: 2024-04-24

V(B) Range: -80 - 80DEG
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Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 8.03.006.0118 15°SP-F620A-72P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:202404000055
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.74	1.29	1.91	2.43	3.00	3.55	4.17	4.54	4.87	5.15	5.26	5.37
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.74	1.89	3.08	4.21	5.33	6.38	7.70	8.67	9.31	9.96	10.4	10.6	10.7
-65	0.00	0.00	0.00	0.00	0.15	1.13	2.51	4.54	6.43	8.40	10.3	12.4	14.1	15.6	16.8	17.8	18.6	18.9	19.2
-60	0.00	0.00	0.00	0.00	0.97	3.19	5.87	8.63	11.4	14.1	17.1	19.8	21.8	23.5	25.0	26.3	27.0	27.5	27.7
-55	0.00	0.00	0.00	0.00	1.25	3.83	7.13	10.7	14.3	18.2	22.0	25.7	28.8	31.6	34.2	36.5	38.4	39.5	40.2
-50	0.00	0.00	0.00	0.73	3.42	7.11	11.2	15.7	20.3	25.5	30.1	34.2	38.1	41.8	45.2	48.4	50.8	52.4	52.9
-45	0.00	0.00	0.00	0.61	3.43	7.43	12.3	17.4	23.1	29.7	36.2	42.7	49.5	56.6	63.8	70.7	76.6	80.9	83.0
-40	0.00	0.00	0.00	2.47	6.43	11.5	17.3	23.5	31.3	39.1	47.4	56.5	66.6	77.1	88.0	98.0	106	112	113
-35	0.00	0.00	0.00	1.76	5.73	11.0	17.3	24.2	32.8	43.2	56.1	72.5	91.2	109	126	143	158	171	177
-30	0.00	0.00	0.37	3.97	9.14	15.5	22.6	31.4	42.4	56.8	77.2	103	131	155	178	200	221	237	242
-25	0.00	0.00	0.00	2.77	7.66	14.0	21.4	30.6	42.8	59.5	84.5	116	153	192	234	285	342	401	440
-20	0.00	0.00	0.85	5.06	11.0	18.3	26.9	38.9	54.7	80.2	116	157	205	260	327	413	511	604	646
-15	0.00	0.00	0.00	3.42	8.97	16.1	24.4	35.7	51.3	76.6	114	157	209	283	388	544	811	1340	1967
-10	0.00	0.00	1.04	5.58	12.0	20.2	30.0	43.9	64.7	101	146	195	266	381	558	847	1470	2633	3486
-5	0.00	0.00	0.13	3.98	9.98	17.5	26.7	39.5	58.0	90.8	136	184	250	362	544	852	1616	3577	5512
0	0.00	0.00	1.57	6.51	13.4	21.7	32.6	48.0	73.1	115	164	218	309	470	732	1281	3067	6414	7893
5	0.00	0.00	0.22	4.27	10.4	18.0	27.3	40.3	59.3	92.9	138	186	252	365	547	859	1621	3519	5267
10	0.00	0.00	1.48	6.23	12.8	21.1	31.3	45.7	67.9	105	150	199	270	385	567	863	1445	2380	2872
15	0.00	0.00	0.12	3.97	9.70	17.0	25.5	37.2	53.5	80.4	118	160	211	284	392	553	822	1286	1719
20	0.00	0.00	1.23	5.64	11.7	19.1	27.9	40.4	56.9	83.8	120	158	204	259	330	422	522	607	636
25	0.00	0.00	0.02	3.18	8.22	14.6	22.2	31.7	44.1	61.8	87.6	118	152	190	233	288	349	407	440
30	0.00	0.00	0.62	4.32	9.57	16.0	23.2	32.2	43.5	58.6	79.4	104	130	153	177	202	226	242	246
35	0.00	0.00	0.00	2.02	6.13	11.5	17.8	24.9	33.9	44.5	58.2	74.7	92.8	110	127	145	162	175	181
40	0.00	0.00	0.00	2.74	6.85	12.0	17.8	24.2	32.4	40.6	49.7	59.5	70.0	80.6	91.6	102	110	116	117
45	0.00	0.00	0.00	0.86	3.85	8.00	12.9	18.1	24.1	31.0	37.9	44.9	52.3	59.8	67.2	74.4	80.5	84.9	86.7
50	0.00	0.00	0.00	1.06	3.95	7.78	12.0	16.6	21.4	26.9	31.8	36.3	40.7	44.9	48.8	52.1	54.7	56.2	56.6
55	0.00	0.00	0.00	0.14	1.68	4.41	7.88	11.6	15.4	19.5	23.7	27.6	31.0	34.2	37.1	39.7	41.9	43.2	43.7
60	0.00	0.00	0.00	0.00	1.47	3.86	6.67	9.67	12.6	15.5	18.9	21.7	23.9	25.9	27.6	29.1	30.4	30.8	30.9
65	0.00	0.00	0.00	0.00	0.37	1.39	3.17	5.35	7.49	9.66	11.9	14.2	16.1	17.7	19.1	20.3	21.3	21.7	21.9
70	0.00	0.00	0.00	0.00	0.00	0.28	1.37	2.72	4.11	5.58	6.91	8.26	9.74	10.7	11.5	12.2	12.7	12.8	12.9
75	0.00	0.00	0.00	0.00	0.00	0.00	0.43	1.07	1.77	2.52	3.20	3.85	4.77	5.48	6.08	6.58	6.94	7.10	7.14
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.46	0.75	1.09	1.26	1.40	1.43	1.49
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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H(β) Interval: 1.0DEG
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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

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NAME: 8.03.006.0118 15°SP-F620A-72P-RDM									TYPE:LED						WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:202404000055		
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	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
-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
-80	0.10	0.02	0.00	0.00	0.00	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	5.45	5.38	5.20	5.00	4.72	4.39	3.89	3.31	2.81	2.26	1.63	1.05	0.46	0.00	0.00	0.00	0.00
-70	10.8	10.6	10.2	9.80	9.20	8.45	7.23	6.24	5.14	4.07	2.75	1.65	0.52	0.00	0.00	0.00	0.00
-65	19.3	19.1	18.6	17.9	17.0	15.9	14.5	12.8	10.9	8.88	6.94	4.99	2.94	1.30	0.32	0.00	0.00
-60	27.7	27.4	26.5	25.3	24.0	22.3	20.4	18.1	15.0	12.2	9.45	6.75	3.95	1.67	0.01	0.00	0.00
-55	40.3	39.7	38.4	36.5	34.2	31.7	28.9	25.8	22.1	18.3	14.4	10.8	7.24	4.05	1.54	0.04	0.00
-50	52.6	51.2	48.9	45.9	42.4	38.8	34.9	30.9	26.2	21.2	16.3	12.1	7.95	4.18	1.34	0.00	0.00
-45	82.8	80.2	75.5	69.4	62.4	55.4	48.5	41.8	35.2	28.8	22.5	16.8	11.7	7.05	3.29	0.49	0.00
-40	111	106	97.4	87.3	76.7	66.5	56.6	47.5	39.1	31.2	23.8	17.4	11.5	6.66	2.79	0.00	0.00
-35	176	168	154	138	120	104	86.3	69.0	53.6	41.2	31.4	23.0	16.1	10.2	5.17	1.43	0.00
-30	236	220	198	174	150	127	102	77.6	57.6	42.9	32.2	22.8	15.6	9.50	4.36	0.68	0.00
-25	436	391	329	270	219	177	140	107	78.9	56.1	40.4	29.0	20.1	12.9	6.91	2.32	0.00
-20	607	514	411	323	252	196	151	113	80.3	55.2	39.2	27.5	18.6	11.2	5.37	1.14	0.00
-15	1942	1310	778	511	358	256	189	143	105	71.5	48.3	34.0	23.1	14.9	8.16	2.95	0.00
-10	2860	1601	885	560	374	256	186	142	101	66.8	44.8	31.1	20.5	12.6	6.13	1.48	0.00
-5	5167	2960	1326	731	464	307	215	162	118	79.3	51.8	35.9	24.1	15.4	8.42	3.00	0.00
0	5935	2682	1152	650	411	273	195	145	103	66.6	44.4	30.5	20.2	12.0	5.66	1.15	0.00
5	4844	2766	1256	697	443	294	208	157	114	76.6	50.4	35.0	23.4	15.0	8.01	2.70	0.00
10	2260	1339	786	504	338	235	175	133	94.3	62.3	42.5	29.4	19.3	11.7	5.46	1.07	0.00
15	1610	1103	693	463	325	235	177	134	97.7	66.6	45.7	32.3	21.8	13.9	7.38	2.37	0.00
20	586	487	382	296	232	182	139	105	74.3	51.7	37.3	26.1	17.6	10.5	4.82	0.76	0.00
25	428	377	312	252	204	165	132	100.0	73.6	53.0	38.7	27.8	19.2	12.2	6.35	1.90	0.00
30	236	216	191	166	143	120	95.4	72.9	54.8	41.4	31.2	22.0	15.0	9.07	4.04	0.45	0.00
35	178	168	151	134	116	99.6	82.4	66.0	51.6	40.1	30.7	22.4	15.6	9.83	4.90	1.23	0.00
40	114	107	97.8	87.0	76.2	65.8	55.9	46.8	38.6	30.9	23.4	17.1	11.3	6.42	2.57	0.00	0.00
45	85.9	82.6	77.1	70.3	62.9	55.6	48.5	41.6	35.0	28.5	22.1	16.5	11.4	6.82	3.07	0.39	0.00
50	55.9	54.1	51.3	47.7	43.8	39.6	35.4	31.1	26.1	21.0	16.1	11.8	7.65	3.95	1.14	0.00	0.00
55	43.6	42.8	41.1	38.8	36.0	33.0	29.9	26.5	22.6	18.4	14.4	10.7	7.12	3.86	1.33	0.00	0.00
60	30.8	30.3	29.2	27.7	25.9	23.9	21.7	19.0	15.7	12.5	9.66	6.74	3.90	1.57	0.00	0.00	0.00
65	21.9	21.7	21.1	20.2	19.0	17.7	16.0	14.0	11.9	9.52	7.37	5.19	3.03	1.27	0.26	0.00	0.00
70	12.9	12.8	12.4	11.8	11.1	10.1	8.78	7.46	6.20	4.84	3.29	1.89	0.66	0.00	0.00	0.00	0.00
75	7.22	7.17	7.00	6.67	6.24	5.73	5.02	4.12	3.38	2.70	1.94	1.23	0.55	0.04	0.00	0.00	0.00
80	1.46	1.46	1.37	1.26	1.03	0.82	0.54	0.17	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
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.7DEG
Operators:QC1
Test Date:2024-04-24

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: