

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	1030.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	106.5V x 97.2H
	At 50% of Imax	53.4V x 50.1H
	At 90% of Imax	21.9V x 21.1H

Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	884.2 lumens per klm.
	To 50% of Imax	470.1 lumens per klm.
	To 90% of Imax	99.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

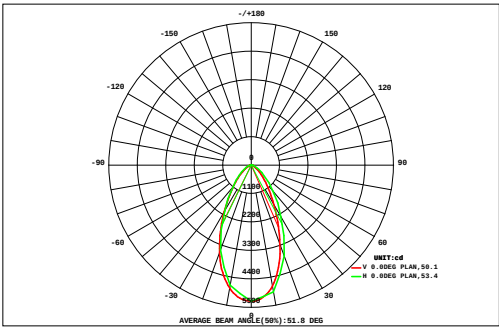
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-01-17

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:220.6V I:0.2663A P:55.73W PF:1.000 Freq:50.00Hz Lamp Flux:5100.94x1 lm		
NAME: 8.01.020.0021 45° LW-OP-D80-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:91.54lm/W	
MODEL	LW-OP-D80-L12-S	Imax(cd)	5258
NOMINAL POWER(W)	55	AVAILABILITY(%)	88.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	4517
NOMINAL FLUX(lm)	5100.94	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	5101
TEST VOLTAGE(V)	220	θ @50%(H,V)	50,53DEG

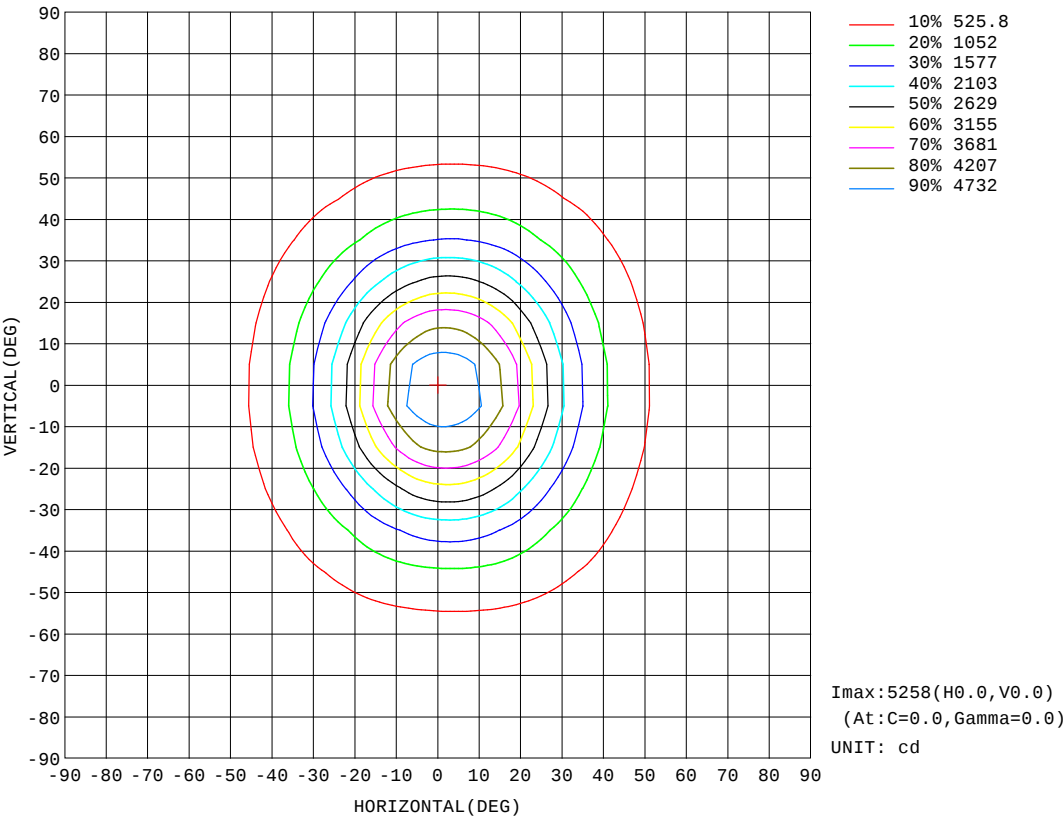
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.01	0.15	0.42	1.05	1.83	2.40	2.57	2.82	2.99	2.57	1.87	1.16	0.57	0.17	0.02	0.00	20.6	0.00
70	0.00	0.00	0.13	0.70	1.62	2.86	4.29	5.54	6.48	6.73	6.19	5.14	3.77	2.40	1.33	0.57	0.11	0.00	47.8	0.00
60	0.00	0.02	0.45	1.37	2.92	5.25	7.96	10.7	12.8	13.3	12.0	9.53	6.68	4.01	2.08	0.91	0.23	0.01	90.2	9.57
50	0.00	0.09	0.74	2.07	4.56	8.51	13.7	19.6	24.1	25.1	22.2	16.6	10.9	6.25	3.03	1.25	0.35	0.02	159	110
40	0.00	0.17	1.01	2.85	6.61	13.1	22.7	34.5	44.2	46.3	39.5	27.9	17.0	9.13	4.17	1.58	0.44	0.03	271	239
30	0.00	0.23	1.23	3.63	8.97	18.9	35.7	58.6	77.8	81.5	67.3	44.5	24.8	12.3	5.28	1.88	0.51	0.03	443	419
20	0.00	0.29	1.41	4.28	11.1	25.1	51.4	89.0	119	123	100	63.5	32.9	15.3	6.25	2.11	0.56	0.04	645	624
10	0.00	0.31	1.50	4.71	12.6	29.5	63.5	112	148	150	123	77.5	39.0	17.3	6.88	2.26	0.59	0.04	789	770
0	0.00	0.32	1.52	4.77	12.8	30.3	65.2	116	152	155	126	79.3	39.6	17.4	6.91	2.27	0.59	0.04	810	790
-10	0.00	0.29	1.45	4.47	11.8	26.9	55.7	96.5	129	133	108	66.8	34.1	15.7	6.37	2.13	0.56	0.03	692	672
-20	0.00	0.23	1.27	3.86	9.74	20.8	39.5	64.8	87.0	90.6	73.3	47.0	25.6	12.6	5.33	1.88	0.47	0.02	484	460
-30	0.00	0.11	0.99	3.00	7.17	14.7	25.7	39.2	50.2	52.3	44.0	30.3	18.3	9.59	4.24	1.55	0.34	0.01	302	273
-40	0.00	0.05	0.63	2.17	5.01	9.69	15.9	22.8	27.6	28.5	25.2	18.6	12.1	6.70	3.18	1.16	0.26	0.01	179	137
-50	0.00	0.01	0.33	1.39	3.21	5.91	8.89	11.7	13.7	14.2	12.9	10.3	7.39	4.41	2.17	0.80	0.19	0.00	97.6	12.0
-60	0.00	0.00	0.11	0.69	1.79	3.04	4.42	5.61	6.52	6.77	6.26	5.22	3.90	2.55	1.32	0.48	0.08	0.00	48.8	0.00
-70	0.00	0.00	0.00	0.18	0.59	1.14	1.79	2.29	2.49	2.59	2.60	2.28	1.69	1.12	0.57	0.17	0.01	0.00	19.5	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.06	0.17	0.26	0.18	0.21	0.37	0.34	0.23	0.11	0.02	0.00	0.00	0.00	1.95	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
Φ t	0.01	2.13	12.8	40.3	101	217	418	692	903	931	772	508	280	138	59.7	21.2	5.32	0.27	5101	---
Φ a	0.00	0.00	0.00	0.00	35.8	170	376	652	865	893	733	467	236	85.7	1.92	0.00	0.00	0.00	---	4517

one-half-peak spread: U:27.7,D:26.1 , L:23.9, Beam Type: Type 5 x 6 (H x V)

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2025-01-17
 V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.6V I:0.2663A P:55.73W PF:1.000 Freq:50.00Hz Lamp Flux:5100.94x1 lm		
NAME: 8.01.020.0021 45° LWW-OP-D80-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010041
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

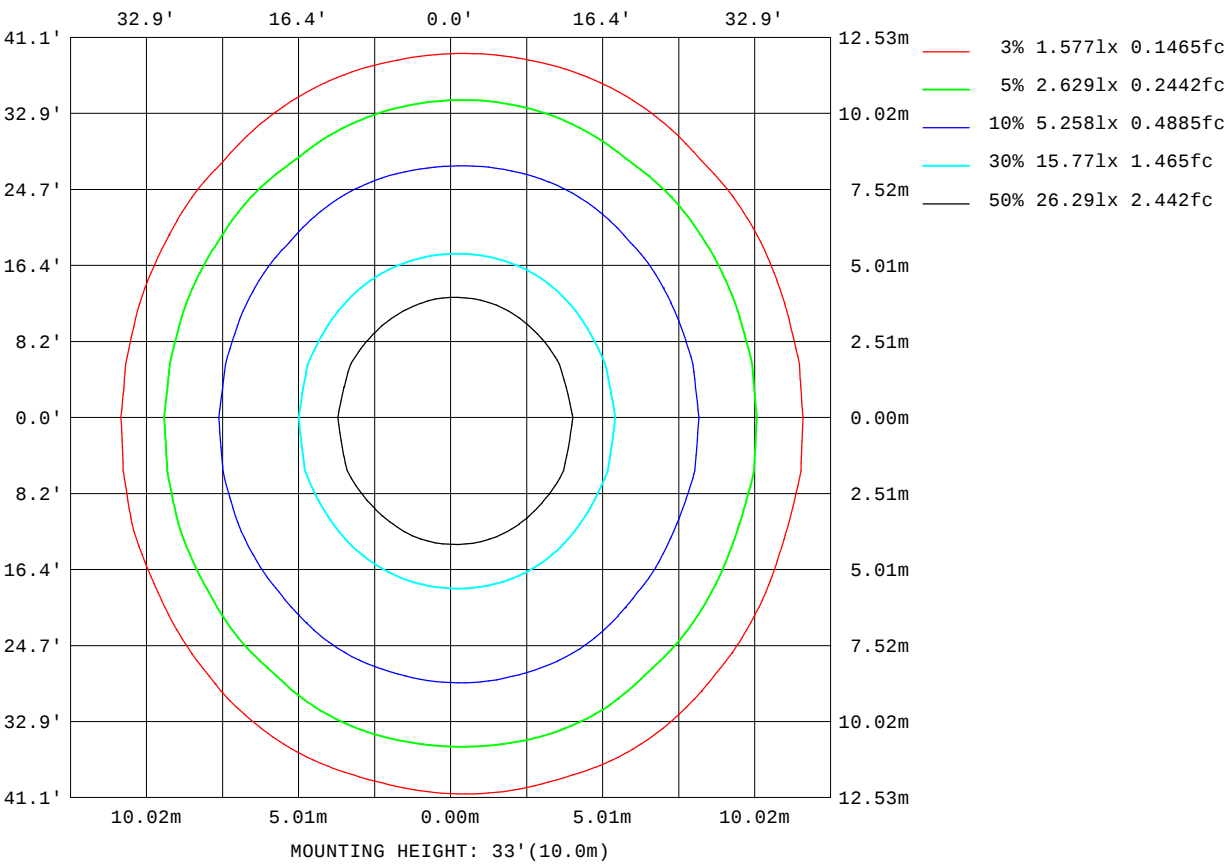


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Test Speed: HIGH
Temperature:28.0DEG
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Test Date:2025-01-17

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

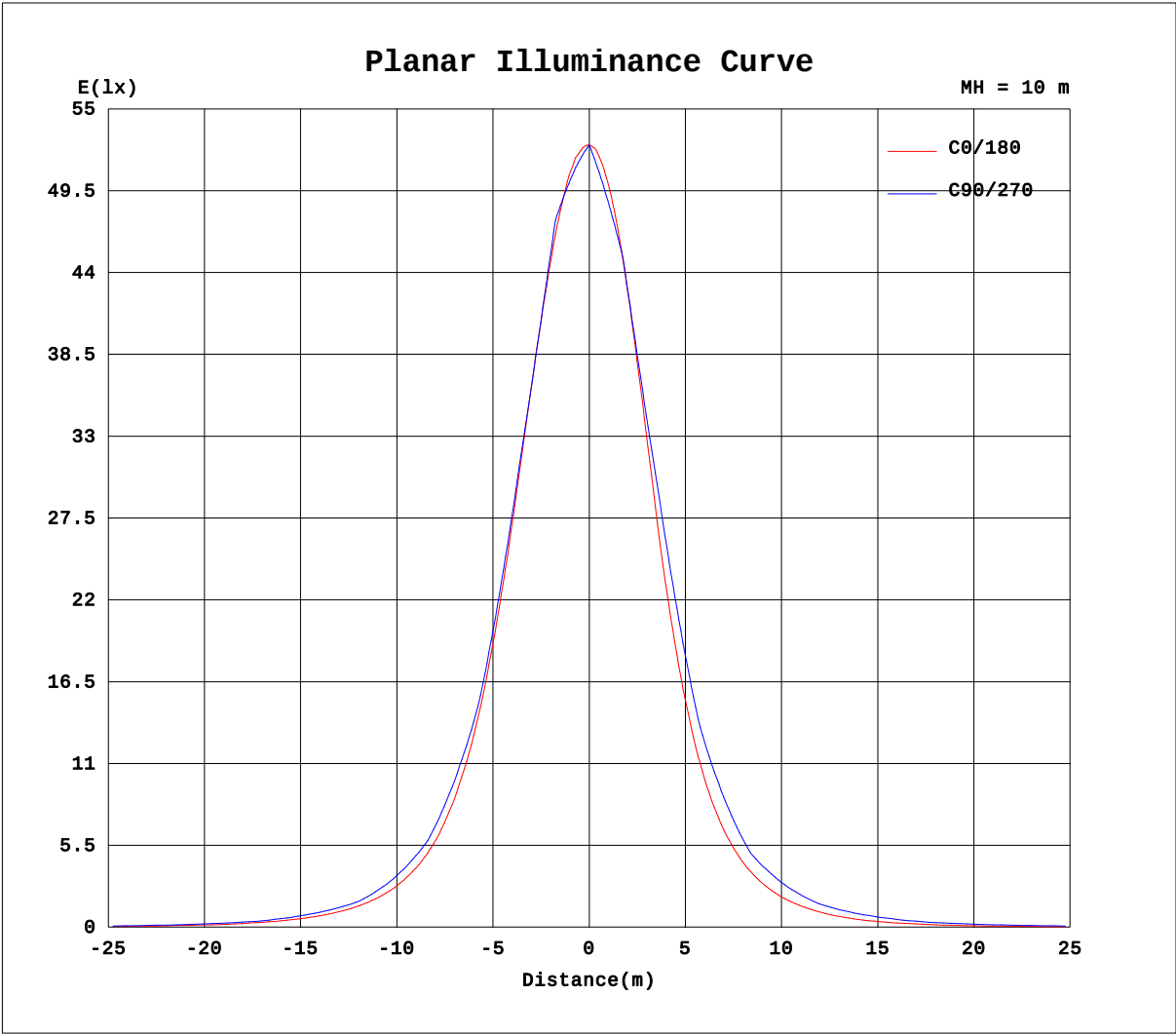
Test:U:220.6V I:0.2663A P:55.73W PF:1.000 Freq:50.00Hz Lamp Flux:5100.94x1 lm		
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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-01-17

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

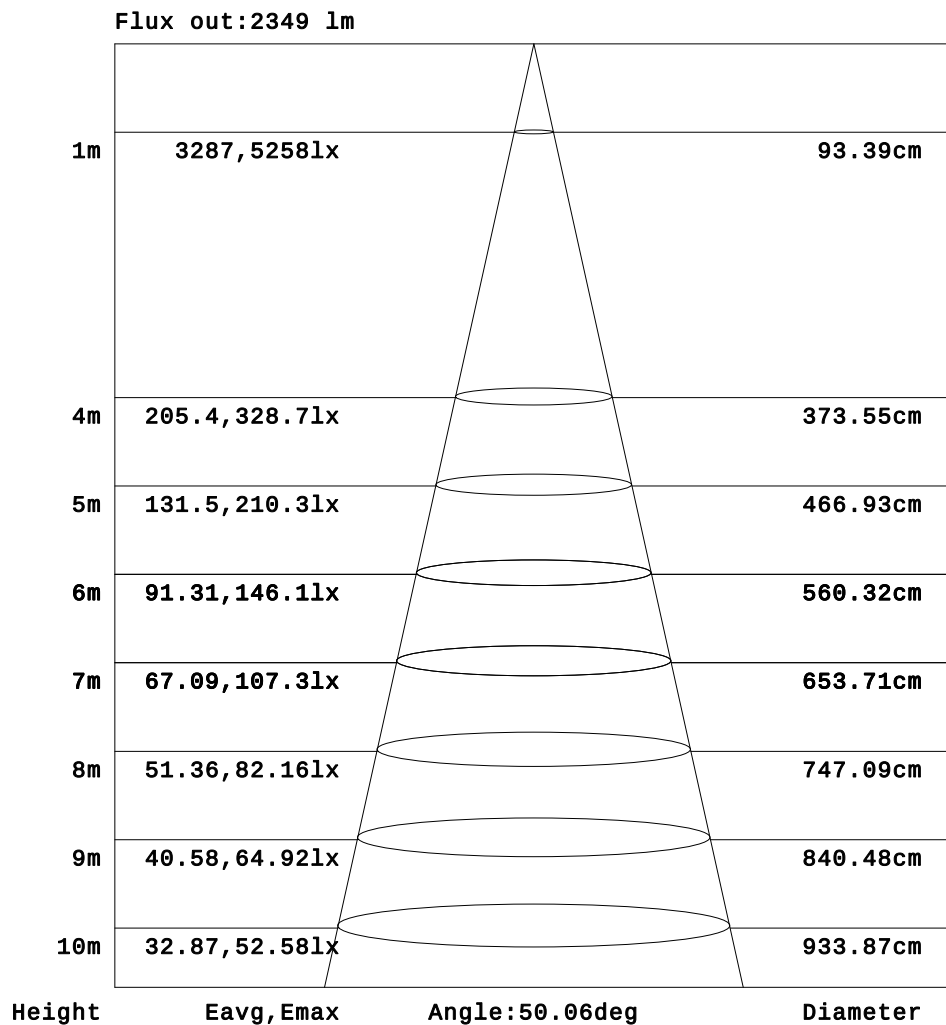


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-01-17

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:220.6V I:0.2663A P:55.73W PF:1.000 Freq:50.00Hz Lamp Flux:5100.94x1 lm		
NAME: 8.01.020.0021 45° LWW-OP-D80-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010041
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:2025-01-17

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:220.6V I:0.2663A P:55.73W PF:1.000 Freq:50.00Hz Lamp Flux:5100.94x1 lm		
NAME: 8.01.020.0021 45° LWW-OP-D80-L12-S	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025010041
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	1.95	9.62	17.4	23.9	30.5	36.8	40.5	39.2	35.7	35.6
-75	0.00	0.00	0.00	0.00	0.00	0.00	2.42	9.68	17.5	27.0	36.4	47.4	57.9	68.9	78.1	85.2	88.6	90.2	92.3
-70	0.00	0.00	0.00	0.00	0.00	0.00	8.09	22.7	39.1	55.4	67.7	81.8	96.7	111	123	132	139	146	150
-65	0.00	0.00	0.00	0.00	0.13	6.77	18.0	36.1	58.4	82.3	101	124	146	168	187	204	220	234	241
-60	0.00	0.00	0.00	0.00	1.38	16.4	34.5	58.1	89.1	116	145	175	205	233	259	283	306	325	335
-55	0.00	0.00	0.00	0.00	5.60	22.4	44.6	73.9	108	145	186	234	282	327	373	416	455	486	503
-50	0.00	0.00	0.00	0.02	14.9	35.9	64.0	103	142	190	246	312	377	440	504	565	618	654	675
-45	0.00	0.00	0.00	1.62	17.8	42.3	76.3	117	164	222	294	379	475	573	680	787	880	947	985
-40	0.00	0.00	0.00	7.02	29.0	60.7	103	147	205	282	375	485	613	747	900	1050	1174	1260	1302
-35	0.00	0.00	0.00	7.67	32.4	67.8	110	160	227	316	428	565	731	917	1126	1347	1549	1704	1792
-30	0.00	0.00	0.00	16.2	49.1	90.9	137	195	280	390	530	707	920	1167	1442	1728	1994	2198	2296
-25	0.00	0.00	0.00	20.6	50.0	89.7	136	201	297	421	581	788	1049	1373	1749	2158	2538	2852	3005
-20	0.00	0.00	1.86	34.6	66.0	104	159	240	357	509	706	964	1297	1721	2219	2745	3218	3594	3734
-15	0.00	0.00	1.18	30.0	62.6	102	154	233	351	508	717	998	1386	1883	2486	3130	3716	4152	4346
-10	0.00	0.00	8.26	38.1	72.7	115	176	266	400	580	827	1168	1655	2270	3010	3767	4412	4822	4973
-5	0.00	0.00	2.78	32.2	66.2	107	163	248	377	550	789	1122	1592	2210	2966	3779	4467	4921	5111
0	0.00	0.00	9.61	39.3	74.6	118	179	273	415	604	867	1237	1754	2433	3249	4091	4746	5135	5258
5	0.00	0.00	2.76	32.3	65.4	106	162	245	373	543	777	1103	1565	2172	2912	3706	4372	4803	4980
10	0.00	0.00	7.76	37.1	71.0	113	172	261	390	563	801	1127	1596	2187	2895	3612	4215	4586	4710
15	0.00	0.00	1.47	29.4	60.9	99.7	151	226	337	486	685	953	1324	1797	2375	2984	3531	3907	4093
20	0.00	0.00	4.34	33.0	64.9	104	154	230	338	479	663	906	1224	1622	2099	2590	3029	3341	3490
25	0.00	0.00	0.31	24.0	52.9	88.2	132	194	282	398	545	734	976	1276	1631	2009	2358	2622	2772
30	0.00	0.00	0.53	25.8	54.1	88.4	131	189	268	369	495	651	839	1063	1314	1573	1811	1985	2073
35	0.00	0.00	0.00	16.1	41.7	72.1	108	155	217	297	396	516	657	822	1006	1197	1373	1509	1587
40	0.00	0.00	0.00	16.6	40.7	69.3	102	142	195	262	343	435	538	653	775	895	998	1075	1115
45	0.00	0.00	0.00	6.18	28.1	52.6	80.9	113	154	207	269	340	417	502	592	682	760	820	856
50	0.00	0.00	0.00	3.66	24.8	46.7	71.5	99.3	133	175	222	274	329	386	445	502	550	585	603
55	0.00	0.00	0.00	0.35	12.0	31.5	52.6	75.2	101	133	169	210	251	293	334	375	411	437	453
60	0.00	0.00	0.00	0.00	6.99	24.6	42.5	60.9	81.9	106	133	163	190	216	240	264	284	299	307
65	0.00	0.00	0.00	0.00	1.71	10.5	23.9	39.7	56.2	74.1	93.7	116	137	158	177	193	208	220	226
70	0.00	0.00	0.00	0.00	0.00	0.01	11.7	25.0	37.5	50.1	63.0	77.6	93.2	108	120	129	137	144	148
75	0.00	0.00	0.00	0.00	0.00	0.00	4.39	11.2	17.5	23.8	33.6	44.9	56.4	67.7	76.9	83.4	86.7	89.2	91.7
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	8.67	16.7	24.4	31.3	37.0	39.6	37.1	35.4	36.7
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
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-01-17

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

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SPEC.:	DIM.:	SERIAL No.:2025010041
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	39.1	45.1	50.3	49.8	46.9	42.4	37.1	30.5	24.6	17.5	8.79	2.55	0.00	0.00	0.00	0.00	0.00	0.00
-75	94.6	97.2	98.4	96.1	90.9	83.6	74.3	64.1	55.3	46.4	33.6	21.3	13.4	6.83	0.67	0.00	0.00	0.00
-70	151	150	146	141	132	122	107	93.8	82.5	71.2	52.5	35.8	24.6	11.1	0.05	0.00	0.00	0.00
-65	244	241	233	220	205	187	166	145	124	102	79.6	55.4	38.7	23.2	9.18	0.28	0.00	0.00
-60	336	329	315	294	271	245	217	188	156	124	96.0	66.1	47.3	30.3	13.0	0.00	0.00	0.00
-55	507	498	474	439	397	353	309	260	212	168	128	92.2	62.4	41.6	23.3	4.96	0.00	0.00
-50	677	659	621	569	507	444	382	312	250	193	145	105	68.3	46.2	25.6	5.55	0.00	0.00
-45	991	963	903	813	705	599	503	407	320	248	185	134	90.1	56.9	33.3	12.4	0.00	0.00
-40	1300	1248	1151	1017	860	714	587	464	360	275	203	145	96.8	56.6	32.3	10.9	0.00	0.00
-35	1799	1722	1573	1369	1146	935	753	591	452	339	246	174	120	77.9	43.1	17.1	0.00	0.00
-30	2281	2146	1919	1633	1342	1078	850	658	495	363	257	179	125	82.9	41.8	14.4	0.00	0.00
-25	3003	2837	2539	2151	1744	1368	1046	793	592	433	307	212	145	98.4	57.9	23.5	0.01	0.00
-20	3686	3430	3014	2505	1987	1521	1131	841	618	448	314	214	144	96.3	59.6	21.2	0.00	0.00
-15	4316	4071	3636	3060	2420	1844	1362	996	725	520	364	245	163	109	69.7	32.8	2.71	0.00
-10	4884	4568	4044	3348	2614	1960	1428	1031	739	522	361	238	157	105	65.7	31.2	1.06	0.00
-5	5056	4780	4289	3627	2866	2164	1579	1127	807	569	395	263	173	115	73.4	37.9	5.88	0.00
0	5156	4827	4296	3598	2826	2110	1527	1079	767	539	371	246	162	106	66.7	32.0	1.59	0.00
5	4931	4662	4194	3543	2818	2132	1559	1114	798	565	392	261	172	114	73.4	38.2	6.51	0.00
10	4633	4344	3864	3200	2528	1902	1392	1007	723	513	356	235	156	104	65.9	31.8	1.74	0.00
15	4068	3845	3453	2911	2330	1787	1327	974	710	511	358	242	162	108	70.0	36.3	5.77	0.00
20	3441	3215	2851	2387	1910	1477	1104	824	608	440	309	211	143	96.2	60.6	28.7	0.95	0.00
25	2770	2627	2365	2020	1653	1308	1006	766	576	424	302	210	144	98.6	63.9	32.7	3.93	0.00
30	2063	1948	1755	1507	1252	1012	802	626	477	356	254	178	125	86.3	54.5	25.4	0.11	0.00
35	1597	1530	1404	1232	1045	862	696	553	431	327	239	171	122	85.4	55.0	27.3	1.86	0.00
40	1116	1070	988	882	761	642	530	429	339	262	195	142	103	71.8	43.8	18.8	0.01	0.00
45	862	837	784	710	623	535	449	368	296	232	175	131	97.0	68.9	42.9	19.6	0.37	0.00
50	604	587	553	504	449	392	335	278	227	178	137	106	79.5	55.4	32.2	11.4	0.00	0.00
55	457	448	426	395	358	318	276	232	191	153	120	93.8	71.2	49.4	29.1	10.5	0.00	0.00
60	308	302	289	271	251	227	199	170	140	113	92.2	73.0	54.0	35.2	18.5	2.18	0.00	0.00
65	229	226	218	207	193	177	156	135	114	93.4	76.5	60.2	44.3	28.2	14.0	2.72	0.00	0.00
70	150	148	144	138	129	118	104	91.6	78.9	66.4	54.1	41.0	28.1	15.4	3.91	0.00	0.00	0.00
75	95.3	99.0	99.8	96.9	91.1	83.5	73.8	63.9	54.4	44.7	35.0	25.2	15.5	8.93	3.08	0.00	0.00	0.00
80	42.1	51.2	55.1	54.1	50.5	45.3	39.3	32.4	25.9	19.2	12.1	5.30	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:2025-01-17

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: