

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	451.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	130.7V x 161.5H
	At 50% of Imax	58.8V x 151.2H
	At 90% of Imax	18.9V x 144.0H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	968.7 lumens per klm.
	To 50% of Imax	704.9 lumens per klm.
	To 90% of Imax	84.3 lumens per klm.

Upward LOR	0.5 %
Downward LOR	99.5 %

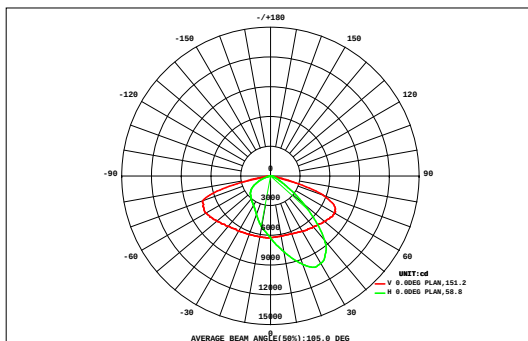
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.0V I:0.6884A P:149.6W PF:0.9833 Freq:49.99Hz Lamp Flux:22747x1 lm		
NAME: ST-S001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:152.03lm/W	
MODEL		Imax(cd)	10268
NOMINAL POWER(W)		AVAILABILITY(%)	97.2
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	22109
NOMINAL FLUX(lm)	22747	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	22747
TEST VOLTAGE(V)	220	θ @50%(H,V)	151,59DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		Φ t	Φ a
	0.09	0.27	0.47	0.72	0.99	1.20	1.35	1.40	1.36	1.51	1.81	1.93	1.86	1.62	1.18	0.66	0.27	0.06	18.7	0.00
90	0.09	0.36	1.08	2.70	4.14	6.03	8.23	9.84	10.4	11.1	11.9	11.3	9.32	7.75	6.85	3.14	0.79	0.09	105	0.00
80	0.10	0.75	4.75	13.9	18.6	23.9	33.2	39.6	42.2	43.2	42.6	37.9	29.7	26.8	27.1	13.0	2.54	0.16	400	310
70	0.12	2.06	15.9	39.1	45.6	48.6	61.1	69.2	72.1	72.8	71.2	64.7	54.0	52.9	53.0	32.2	6.64	0.28	761	752
60	0.15	4.95	34.0	63.6	71.1	68.9	79.2	86.8	88.2	88.7	88.3	81.8	72.4	75.0	71.5	51.8	13.3	0.47	1040	1035
50	0.20	9.32	51.6	82.3	90.8	89.8	93.3	100	101	101	102	95.4	92.1	92.6	85.9	65.7	21.2	0.74	1275	1271
40	0.28	14.5	65.7	96.7	108	112	111	116	118	119	118	112	113	109	98.3	75.9	28.5	1.04	1515	1512
30	0.35	19.1	76.6	109	124	132	136	141	145	146	143	137	132	124	110	84.5	34.3	1.30	1797	1794
20	0.40	22.4	85.5	122	140	153	162	169	173	174	171	163	152	139	121	92.3	38.5	1.48	2080	2078
10	0.40	22.4	85.7	126	152	174	188	198	207	210	202	190	174	152	126	92.7	38.4	1.48	2341	2339
0	0.35	19.1	76.9	120	157	193	218	235	252	254	241	222	195	159	123	85.4	34.3	1.30	2586	2584
-10	0.28	14.4	65.5	109	154	202	244	268	292	294	274	252	208	159	115	76.5	28.4	1.04	2757	2754
-20	0.20	9.31	50.9	90.1	135	189	235	265	286	287	270	244	200	145	98.5	65.4	21.2	0.74	2594	2590
-30	0.15	4.94	33.5	63.6	96.0	141	176	195	201	203	202	187	157	110	74.8	51.3	13.3	0.47	1911	1906
-40	0.12	2.05	15.8	37.4	45.3	65.6	91.6	99.9	91.3	94.2	109	106	83.2	58.4	51.7	32.0	6.66	0.28	990	981
-50	0.09	0.71	4.74	13.7	16.7	19.5	26.8	31.0	29.0	31.3	37.4	35.0	26.9	25.0	26.8	13.1	2.54	0.16	340	203
-60	0.08	0.31	0.97	2.59	4.09	5.84	7.53	8.44	8.37	9.12	10.5	10.6	9.21	7.96	6.97	3.14	0.76	0.09	96.6	0.00
-70	0.08	0.22	0.34	0.46	0.61	0.87	1.15	1.38	1.52	1.70	1.90	1.90	1.70	1.39	0.99	0.54	0.22	0.05	17.0	0.00
-80	0.08	0.22	0.34	0.46	0.61	0.87	1.15	1.38	1.52	1.70	1.90	1.90	1.70	1.39	0.99	0.54	0.22	0.05	17.0	0.00
-90	0.08	0.22	0.34	0.46	0.61	0.87	1.15	1.38	1.52	1.70	1.90	1.90	1.70	1.39	0.99	0.54	0.22	0.05	17.0	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	3.54	147	670	1093	1364	1627	1873	2036	2119	2142	2097	1955	1711	1446	1198	839	292	11.2	22625	---
Φ a	0.00	123	650	1070	1333	1588	1834	1997	2078	2102	2059	1915	1671	1415	1177	821	274	2.02	---	22109

one-half-peak spread: U:21.1,D:38.3 , L:10.9,R:9.4

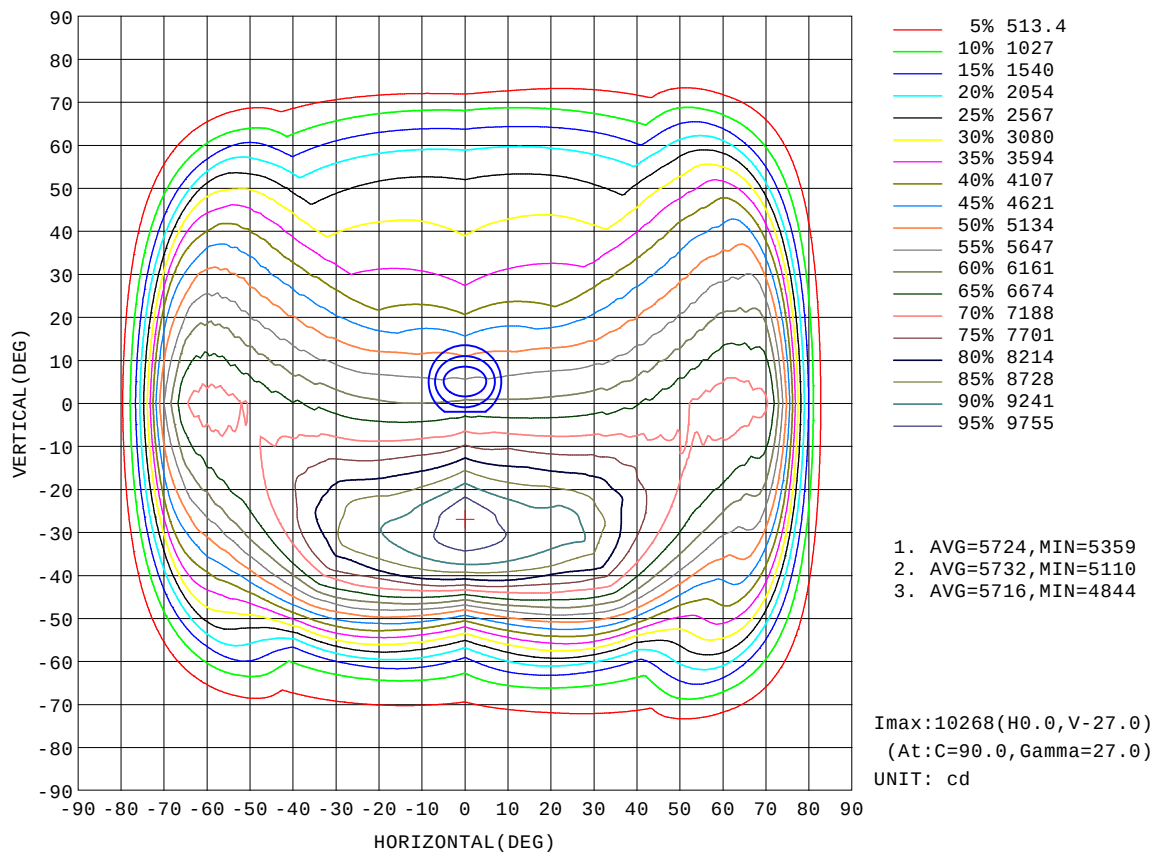
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:221.0V I:0.6884A P:149.6W PF:0.9833 Freq:49.99Hz Lamp Flux:22747x1 lm		
NAME: ST-S001	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:

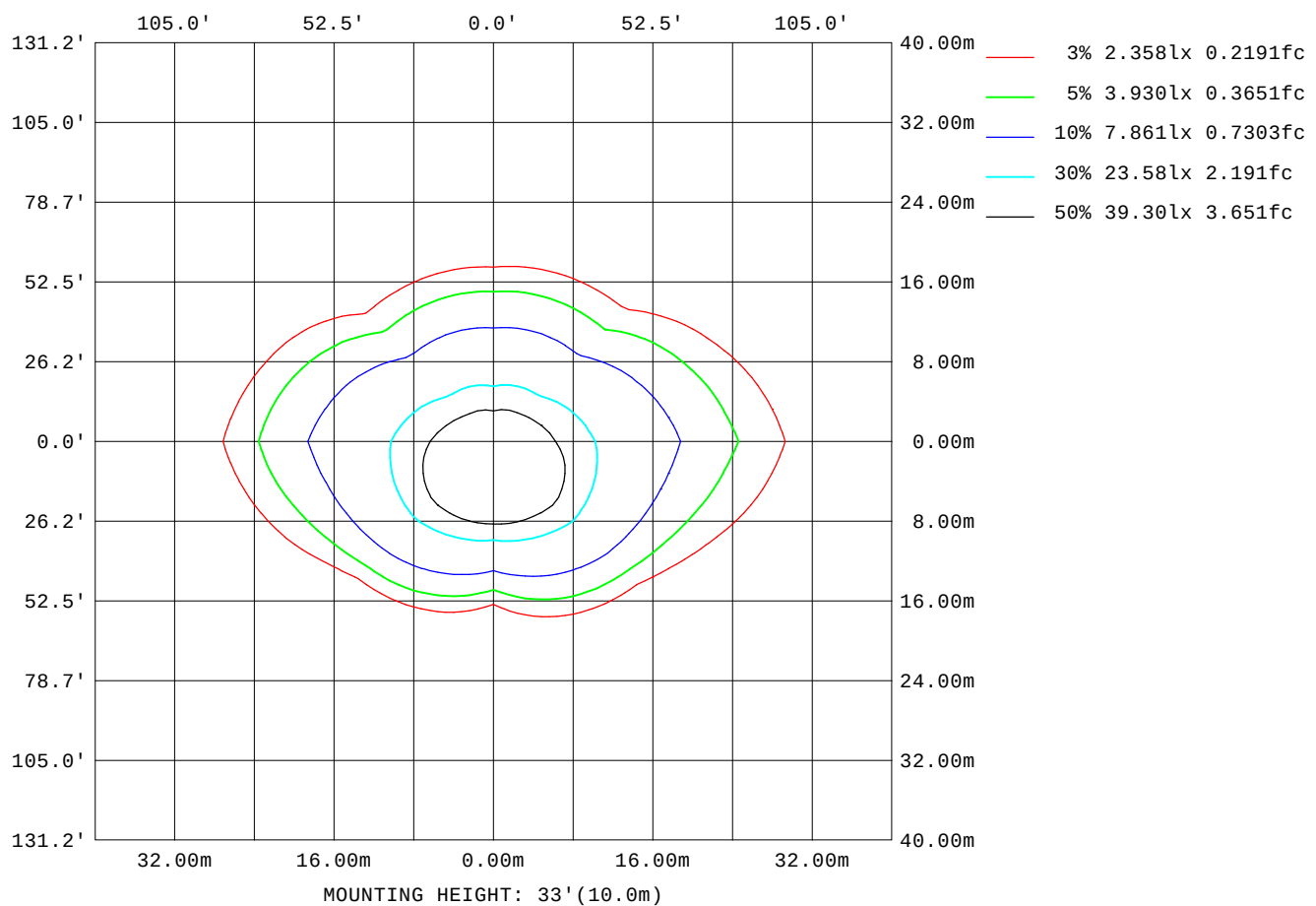


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Temperature:25.3DEG
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Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

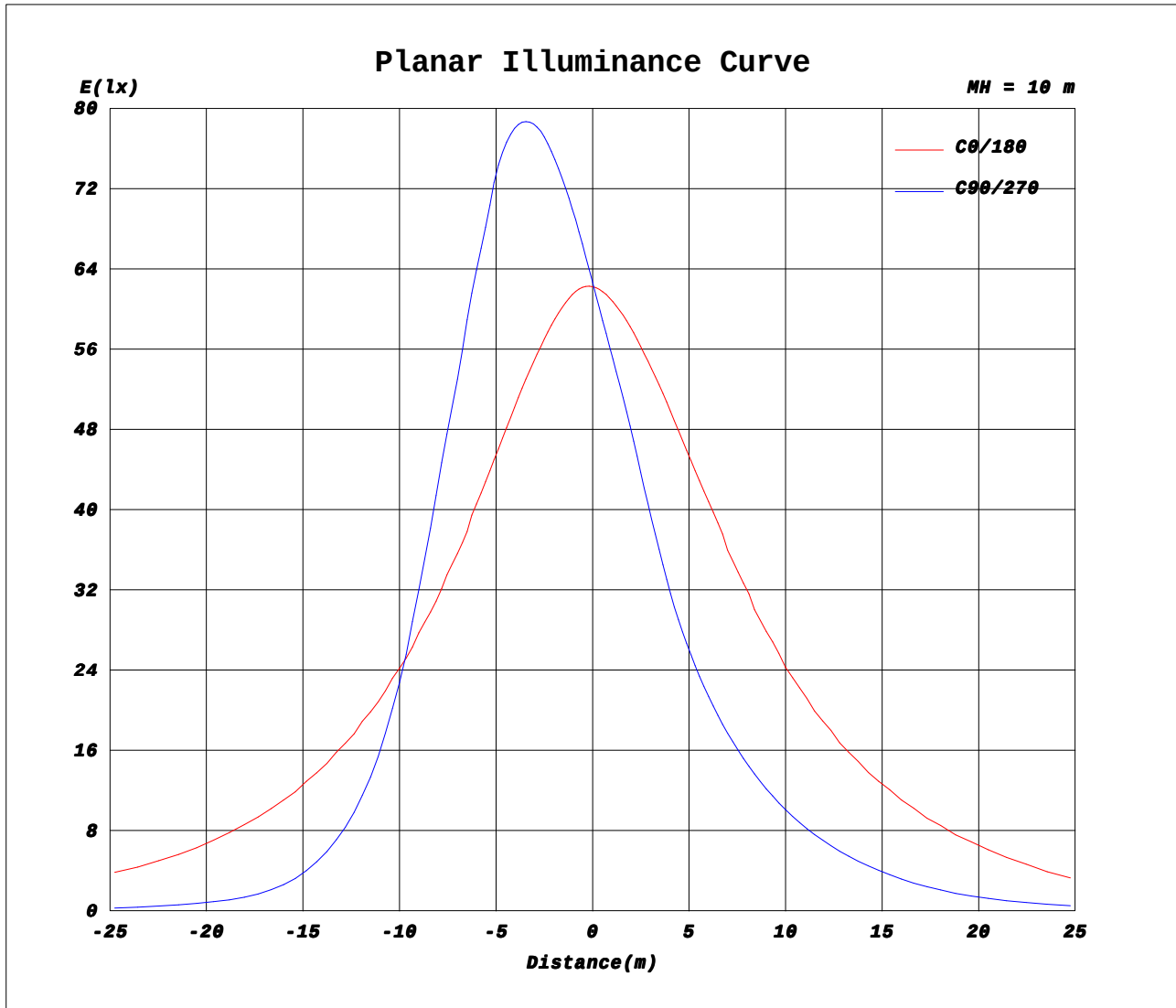
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SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:



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Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

Planar Illuminance Curve

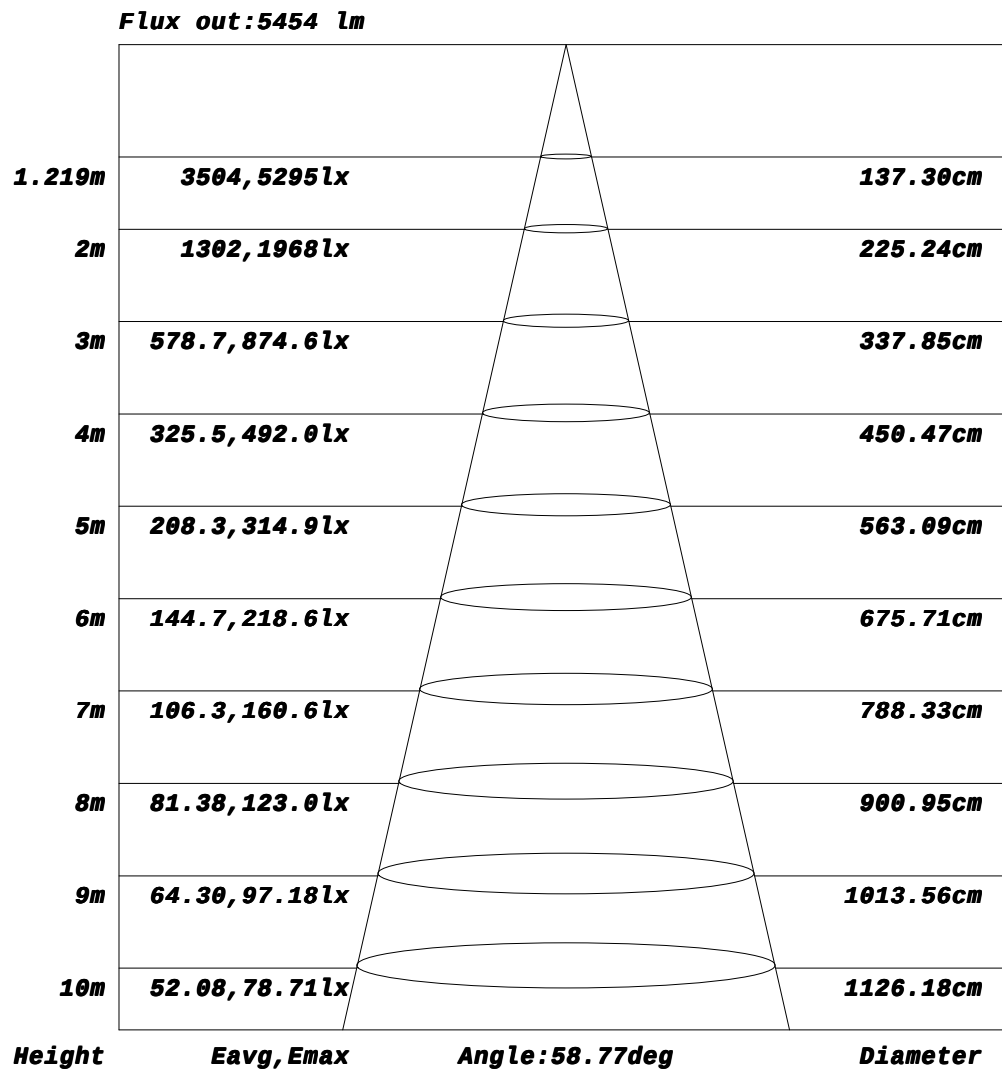


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LEO
Test Date: 01 September 2025

V(B) Range: -180 - 180DEG
V(B) Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:221.0V I:0.6884A P:149.6W PF:0.9833 Freq:49.99Hz Lamp Flux:22747x1 lm		
NAME: ST-S001	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	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: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.6884A P:149.6W PF:0.9833 Freq:49.99Hz Lamp Flux:22747x1 lm																	
NAME: ST-S001									TYPE:LED						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:1		
MFR.: GUOZHAN									SUR.:						Shielding 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
-180	3.29	3.26	3.22	3.19	3.14	3.06	2.93	2.80	2.66	2.52	2.37	2.24	2.12	2.01	1.90	1.80	1.73	1.68	2.07
-170	3.29	3.22	3.14	3.07	2.98	2.86	2.71	2.55	2.40	2.24	2.10	1.98	1.87	1.79	1.73	1.72	1.75	1.86	1.98
-160	3.29	3.19	3.07	2.95	2.83	2.69	2.52	2.34	2.17	2.00	1.85	1.72	1.62	1.54	1.48	1.55	1.65	1.74	1.82
-150	3.29	3.16	3.00	2.85	2.70	2.53	2.35	2.16	1.96	1.78	1.61	1.47	1.34	1.29	1.36	1.44	1.51	1.57	1.62
-140	3.29	3.13	2.95	2.77	2.58	2.39	2.20	2.00	1.79	1.59	1.40	1.22	1.16	1.21	1.26	1.31	1.36	1.40	1.44
-130	3.29	3.12	2.91	2.70	2.49	2.28	2.07	1.85	1.64	1.43	1.22	1.13	1.15	1.18	1.21	1.24	1.26	1.29	1.32
-120	3.29	3.11	2.89	2.66	2.43	2.20	1.96	1.74	1.51	1.29	1.11	1.14	1.16	1.18	1.21	1.23	1.26	1.28	1.31
-110	3.29	3.10	2.88	2.65	2.42	2.18	1.94	1.69	1.44	1.19	1.12	1.14	1.17	1.19	1.22	1.24	1.26	1.29	1.31
-100	3.29	3.10	2.90	2.68	2.46	2.23	2.00	1.76	1.53	1.29	1.27	1.27	1.27	1.28	1.29	1.30	1.32	1.34	1.36
-90	3.29	3.10	2.91	2.72	2.53	2.35	2.16	1.97	1.78	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
-80	3.29	3.16	3.04	3.00	3.13	3.45	3.91	4.71	5.60	6.41	7.65	8.83	9.94	10.9	11.7	12.2	12.6	12.7	12.6
-70	3.29	3.24	3.56	4.81	7.88	14.3	23.3	33.6	40.4	39.1	38.9	43.2	46.9	50.1	52.4	53.4	52.8	51.1	48.2
-60	3.29	3.40	4.92	11.1	29.9	65.2	108	141	152	130	106	129	154	180	193	194	184	165	138
-50	3.29	3.67	7.90	30.5	90.1	180	270	290	295	316	366	426	470	490	505	503	491	469	435
-40	3.29	4.09	12.9	66.7	191	345	401	438	492	555	615	692	745	769	788	824	841	850	849
-30	3.29	4.56	22.8	116	315	461	526	578	631	684	745	798	868	901	922	939	961	987	1017
-20	3.29	4.97	32.6	171	431	562	621	665	694	732	763	801	832	847	853	862	880	907	948
-10	3.29	5.24	39.3	217	510	647	694	707	717	720	730	738	740	733	732	735	743	750	775
0	3.29	5.36	42.4	242	564	710	741	732	714	687	669	654	645	630	622	617	616	618	623
10	3.29	5.28	39.3	217	512	648	678	663	641	612	590	571	556	540	534	531	525	529	521
20	3.29	5.05	32.6	171	434	566	602	596	566	540	516	489	465	446	428	432	436	432	416
30	3.29	4.68	22.9	116	317	467	524	518	495	462	434	404	379	361	365	366	363	356	345
40	3.29	4.24	13.1	66.6	191	350	410	430	411	383	347	312	306	314	320	321	318	312	304
50	3.29	3.84	8.20	30.6	90.0	182	277	303	303	280	245	235	250	260	267	270	271	270	266
60	3.29	3.58	5.32	11.5	30.0	64.9	109	146	163	148	128	147	165	177	185	193	196	196	194
70	3.29	3.42	3.98	5.45	8.57	14.8	23.4	33.4	40.3	39.4	41.4	49.1	55.8	62.3	69.3	74.9	78.6	80.3	79.7
80	3.29	3.35	3.43	3.63	4.01	4.56	5.26	6.19	7.13	7.92	8.50	8.99	9.50	9.91	10.2	10.4	10.3	10.1	9.70
90	3.29	3.29	3.28	3.28	3.27	3.26	3.26	3.25	3.24	3.24	3.20	3.16	3.11	3.07	3.03	2.99	2.95	2.91	2.87
100	3.29	3.28	3.25	3.20	3.14	3.08	3.01	2.95	2.88	2.81	2.77	2.73	2.69	2.66	2.63	2.60	2.58	2.55	2.53
110	3.29	3.27	3.21	3.14	3.07	2.99	2.91	2.83	2.75	2.66	2.61	2.57	2.54	2.51	2.48	2.46	2.44	2.42	2.40
120	3.29	3.26	3.19	3.11	3.03	2.95	2.86	2.77	2.68	2.58	2.50	2.46	2.43	2.40	2.37	2.35	2.33	2.32	2.31
130	3.29	3.25	3.18	3.10	3.02	2.93	2.84	2.74	2.63	2.53	2.43	2.36	2.32	2.29	2.27	2.25	2.24	2.23	2.22
140	3.29	3.24	3.17	3.10	3.02	2.93	2.83	2.72	2.60	2.49	2.38	2.29	2.24	2.22	2.20	2.18	2.16	2.14	2.13
150	3.29	3.24	3.18	3.11	3.04	2.94	2.83	2.70	2.58	2.46	2.36	2.28	2.22	2.19	2.17	2.15	2.13	2.11	2.10
160	3.29	3.25	3.19	3.13	3.06	2.97	2.84	2.71	2.58	2.46	2.35	2.27	2.21	2.18	2.17	2.15	2.14	2.14	2.15
170	3.29	3.25	3.20	3.16	3.10	3.00	2.88	2.74	2.60	2.47	2.35	2.25	2.17	2.10	2.05	2.04	2.07	2.10	2.18
180	3.29	3.26	3.22	3.19	3.14	3.06	2.93	2.80	2.66	2.52	2.37	2.24	2.12	2.01	1.90	1.80	1.73	1.68	2.07

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H(β) Interval: 0.5DEG
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Operators:LEO
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V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: ST-S001									TYPE:LED						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:1		
MFR.: GUOZHAN									SUR.:						Shielding Angle:		

Table--2
UNIT: ×10cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	1.65	1.64	1.61	1.58	1.55	1.52	1.48	1.42	1.36	1.30	1.25	1.21	1.18	1.13	1.09	1.05	1.00	1.38	
-170	1.92	1.85	1.75	1.67	1.60	1.55	1.50	1.44	1.38	1.32	1.27	1.23	1.19	1.14	1.10	1.06	1.01	1.38	
-160	1.80	1.76	1.71	1.66	1.60	1.55	1.49	1.43	1.37	1.32	1.27	1.23	1.19	1.15	1.11	1.07	1.02	1.38	
-150	1.62	1.61	1.59	1.57	1.54	1.50	1.46	1.41	1.36	1.31	1.27	1.23	1.19	1.15	1.12	1.08	1.02	1.38	
-140	1.45	1.46	1.46	1.45	1.45	1.44	1.42	1.38	1.34	1.30	1.26	1.22	1.18	1.15	1.12	1.08	1.03	1.38	
-130	1.34	1.35	1.36	1.36	1.37	1.37	1.36	1.34	1.31	1.28	1.24	1.21	1.18	1.16	1.13	1.10	1.04	1.38	
-120	1.31	1.32	1.32	1.32	1.32	1.32	1.32	1.31	1.28	1.25	1.23	1.21	1.19	1.18	1.15	1.11	1.06	1.38	
-110	1.31	1.31	1.30	1.30	1.30	1.29	1.29	1.29	1.28	1.28	1.27	1.26	1.24	1.21	1.18	1.12	1.09	1.38	
-100	1.36	1.36	1.37	1.38	1.39	1.40	1.42	1.45	1.47	1.44	1.41	1.38	1.33	1.28	1.22	1.18	1.20	1.38	
-90	1.62	1.67	1.71	1.76	1.80	1.85	1.89	1.94	1.98	1.92	1.85	1.78	1.72	1.65	1.58	1.52	1.45	1.38	
-80	14.1	15.3	16.3	16.9	17.1	16.9	16.2	15.3	14.5	14.9	13.4	10.9	9.04	6.64	4.47	3.06	2.11	1.38	
-70	54.7	59.9	63.6	65.5	65.6	64.4	62.1	58.7	67.7	85.8	83.7	69.0	49.6	28.4	14.2	7.18	3.04	1.38	
-60	175	206	227	236	231	211	181	150	174	214	234	223	164	97.8	45.2	14.3	4.44	1.38	
-50	477	507	529	540	539	531	500	446	386	354	358	376	337	226	104	30.3	6.55	1.38	
-40	856	854	842	817	806	791	747	672	607	548	491	472	477	380	187	56.8	9.54	1.38	
-30	993	973	957	948	936	902	833	777	720	667	618	571	560	501	292	85.7	12.1	1.38	
-20	914	894	883	879	868	851	819	779	747	716	683	658	627	601	390	115	14.0	1.38	
-10	760	763	752	747	746	748	744	737	728	719	717	712	693	671	459	139	15.3	1.38	
0	625	624	625	628	633	642	649	663	685	712	731	750	747	728	501	151	15.8	1.38	
10	530	529	538	542	545	556	569	589	613	636	665	688	690	673	459	139	15.3	1.38	
20	435	443	440	434	450	469	490	513	540	570	596	624	626	603	390	115	14.0	1.38	
30	358	366	370	371	368	386	412	439	469	502	532	552	563	503	292	85.5	12.1	1.38	
40	313	321	325	325	323	316	325	357	391	428	455	475	481	382	187	56.7	9.63	1.38	
50	271	275	276	274	270	263	251	267	304	337	366	383	339	225	103	30.3	6.67	1.38	
60	199	202	201	198	193	184	173	157	187	223	239	224	163	97.5	45.0	14.4	4.61	1.38	
70	83.5	85.0	84.3	81.6	77.7	73.9	69.3	62.9	68.3	85.0	82.5	68.5	48.9	28.3	14.4	7.48	3.22	1.38	
80	11.4	12.9	14.0	14.7	14.8	14.8	14.5	14.2	14.0	14.9	13.7	11.4	9.63	7.26	5.02	3.46	2.31	1.38	
90	2.97	3.07	3.17	3.28	3.38	3.48	3.58	3.69	3.79	3.52	3.25	2.99	2.72	2.45	2.19	1.92	1.65	1.38	
100	2.57	2.61	2.66	2.70	2.75	2.80	2.86	2.92	2.96	2.77	2.58	2.38	2.17	1.95	1.73	1.53	1.39	1.38	
110	2.44	2.48	2.52	2.56	2.60	2.65	2.70	2.76	2.73	2.56	2.39	2.21	2.03	1.84	1.66	1.45	1.26	1.38	
120	2.34	2.38	2.42	2.47	2.51	2.56	2.62	2.67	2.56	2.41	2.25	2.09	1.93	1.76	1.58	1.41	1.21	1.38	
130	2.25	2.29	2.33	2.37	2.42	2.48	2.53	2.50	2.38	2.25	2.11	1.97	1.83	1.68	1.52	1.35	1.17	1.38	
140	2.16	2.19	2.23	2.28	2.33	2.39	2.38	2.28	2.18	2.07	1.96	1.84	1.72	1.59	1.45	1.30	1.14	1.38	
150	2.11	2.13	2.16	2.20	2.25	2.22	2.14	2.06	1.98	1.89	1.80	1.70	1.60	1.49	1.37	1.24	1.11	1.38	
160	2.13	2.12	2.13	2.13	2.05	1.99	1.92	1.85	1.78	1.70	1.62	1.55	1.46	1.37	1.29	1.19	1.08	1.38	
170	2.09	2.04	1.94	1.87	1.81	1.76	1.70	1.64	1.57	1.51	1.44	1.38	1.32	1.26	1.19	1.12	1.04	1.38	
180	1.65	1.64	1.61	1.58	1.55	1.52	1.48	1.42	1.36	1.30	1.25	1.21	1.18	1.13	1.09	1.05	1.00	1.38	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks: