

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	397.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	130.7V x 159.5H
	At 50% of Imax	86.4V x 149.3H
	At 90% of Imax	21.0V x 140.4H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	967.9 lumens per klm.
	To 50% of Imax	750.6 lumens per klm.
	To 90% of Imax	123.3 lumens per klm.

Upward LOR	0.5 %
Downward LOR	99.5 %

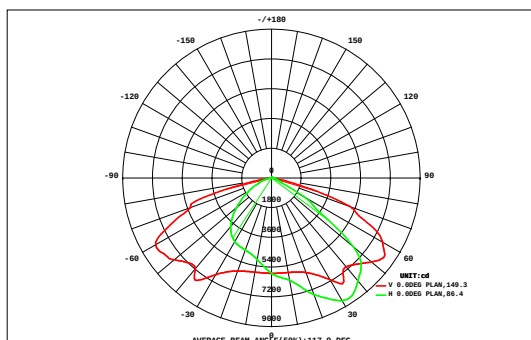
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

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:220.9V I:0.6903A P:149.9W PF:0.9833 Freq:49.99Hz Lamp Flux:24126.8x1 lm		
NAME: ST-S004	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:160.90lm/W	
MODEL		Imax(cd)	9581
NOMINAL POWER(W)		AVAILABILITY(%)	97.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	23436
NOMINAL FLUX(lm)	24126.8	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	24127
TEST VOLTAGE(V)	220	θ @50%(H,V)	149,86DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		Φ t	Φ a
	0.10	0.33	0.69	1.19	1.76	2.06	2.16	2.09	1.82	2.02	2.65	3.00	3.05	2.72	1.79	0.98	0.42	0.09	28.9	0.00
90	0.11	0.58	1.66	3.80	6.43	9.31	12.1	13.9	14.1	14.7	15.6	14.8	12.3	9.44	6.18	2.67	0.82	0.13	139	0.00
80	0.14	1.01	4.77	14.2	22.4	28.9	34.9	37.2	35.9	36.3	38.5	36.8	31.7	27.6	22.5	8.83	1.70	0.18	383	315
70	0.18	2.04	14.2	38.3	47.3	49.4	59.2	65.9	67.2	68.3	68.8	63.3	53.1	50.3	44.7	23.9	3.97	0.24	720	710
60	0.22	4.21	30.8	60.6	72.8	73.1	87.5	99.2	103	104	102	92.0	78.8	77.6	64.4	40.3	8.28	0.33	1098	1092
50	0.26	7.72	46.5	82.1	99.1	102	112	125	129	129	126	114	106	101	86.7	52.6	14.3	0.44	1433	1429
40	0.32	12.1	59.7	102	120	126	133	140	141	140	138	134	128	120	105	64.0	20.2	0.57	1684	1681
30	0.37	16.1	71.0	119	136	149	155	148	148	147	146	151	152	135	119	75.1	24.7	0.69	1893	1891
20	0.40	18.9	80.0	134	151	172	171	164	164	164	163	165	172	149	133	84.4	27.5	0.77	2115	2112
10	0.40	18.9	81.3	141	164	189	189	183	183	183	180	183	189	162	140	86.6	27.5	0.78	2300	2297
0	0.37	16.1	73.9	139	173	202	212	212	207	206	206	207	202	173	140	80.5	24.6	0.70	2475	2472
-10	0.32	12.2	61.7	132	176	217	240	240	243	242	237	235	218	179	137	70.2	20.2	0.58	2661	2658
-20	0.26	7.89	46.3	112	171	215	252	258	260	259	256	254	224	175	124	55.8	14.5	0.45	2686	2682
-30	0.21	4.43	30.3	71.1	146	193	215	234	235	237	239	225	201	159	89.8	40.2	8.62	0.34	2329	2323
-40	0.17	2.16	14.8	36.5	65.2	124	150	147	132	134	152	160	149	95.4	47.1	24.3	4.35	0.24	1437	1427
-50	0.13	0.97	5.42	15.4	20.8	26.0	38.7	44.0	35.2	40.1	58.3	59.6	42.3	27.2	23.4	10.1	1.89	0.17	450	346
-60	0.10	0.48	1.54	4.32	8.27	10.8	11.8	11.1	9.11	9.68	12.7	14.4	14.6	12.9	8.19	3.12	0.80	0.12	134	0.00
-70	0.09	0.24	0.43	0.71	1.09	1.54	1.90	2.05	1.95	2.35	3.18	3.54	3.35	2.64	1.55	0.79	0.33	0.08	27.8	0.00
-80	0.09	0.24	0.43	0.71	1.09	1.54	1.90	2.05	1.95	2.35	3.18	3.54	3.35	2.64	1.55	0.79	0.33	0.08	27.8	0.00
-90	0.09	0.24	0.43	0.71	1.09	1.54	1.90	2.05	1.95	2.35	3.18	3.54	3.35	2.64	1.55	0.79	0.33	0.08	27.8	0.00
HORIZONTAL (DEG)																				
Φ t	4.12	126	625	1208	1582	1890	2077	2127	2110	2116	2146	2115	1980	1660	1294	725	205	6.89	23995	---
Φ a	0.00	100	603	1183	1548	1848	2036	2086	2065	2072	2106	2074	1937	1623	1269	704	182	0.00	---	23436

one-half-peak spread: U:20.5,D:66.8 , L:18.5,R:17.9

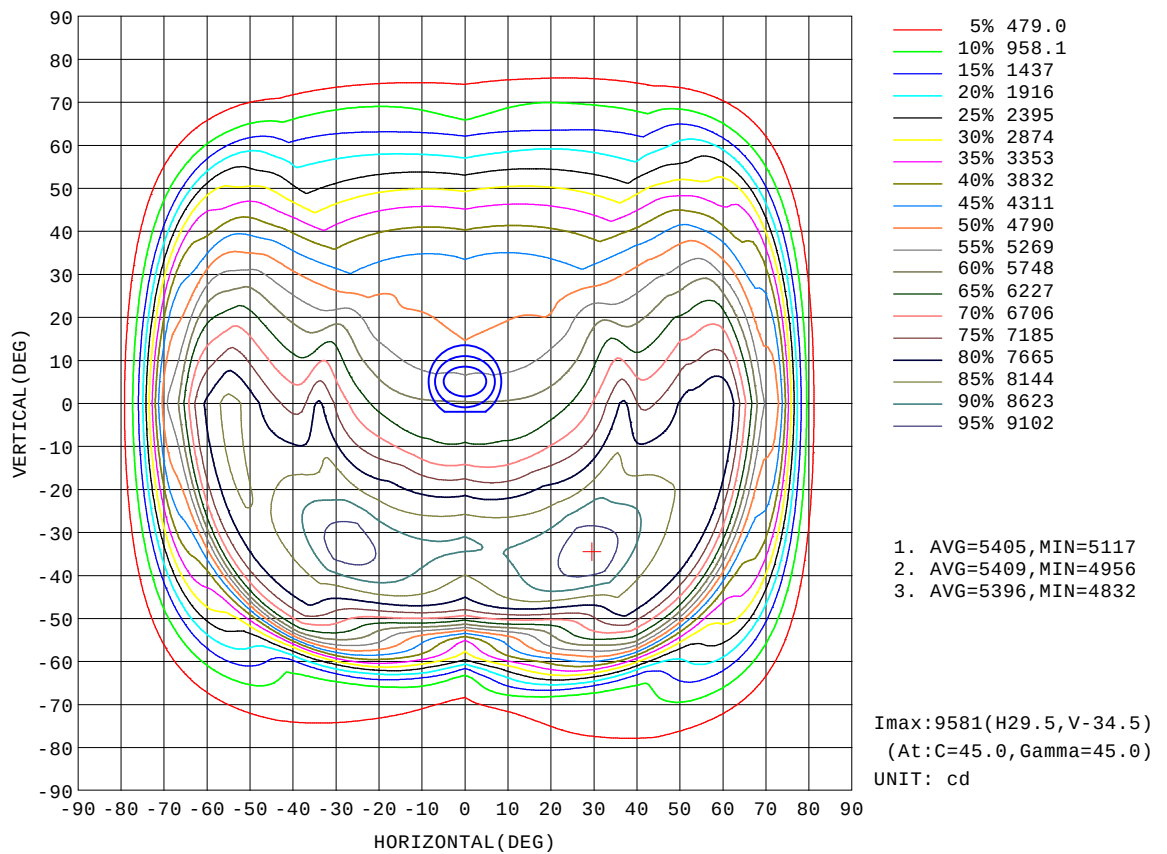
NEMA Beam Type: Type 7

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:220.9V I:0.6903A P:149.9W PF:0.9833 Freq:49.99Hz Lamp Flux:24126.8x1 lm		
NAME: ST-S004	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:

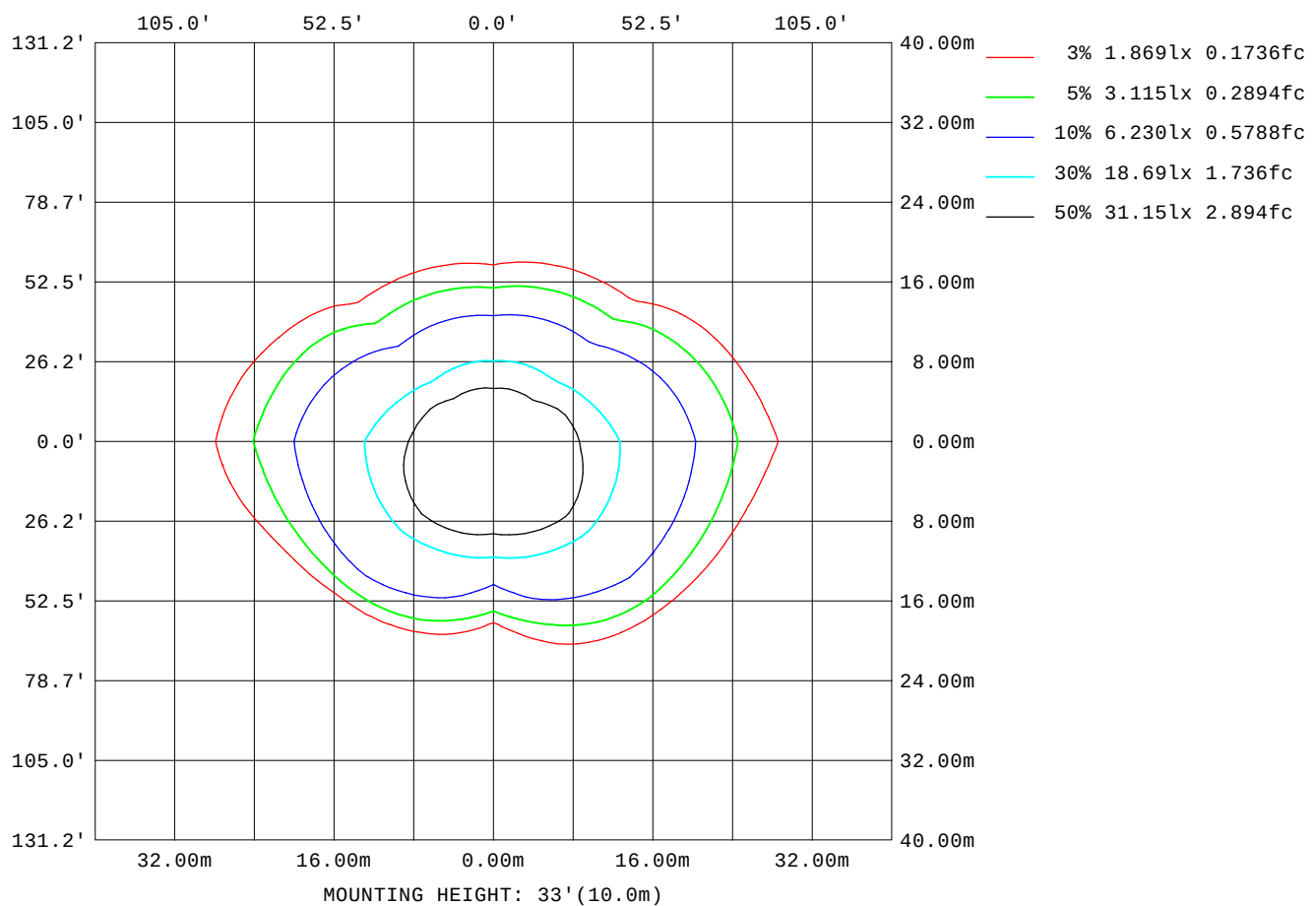


$H(\beta)$ Range: -90 - 90DEG
 $H(\beta)$ Interval: 0.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LEO
Test Date: 01 September 2025

$V(B)$ 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:

ISOLUX DIAGRAM

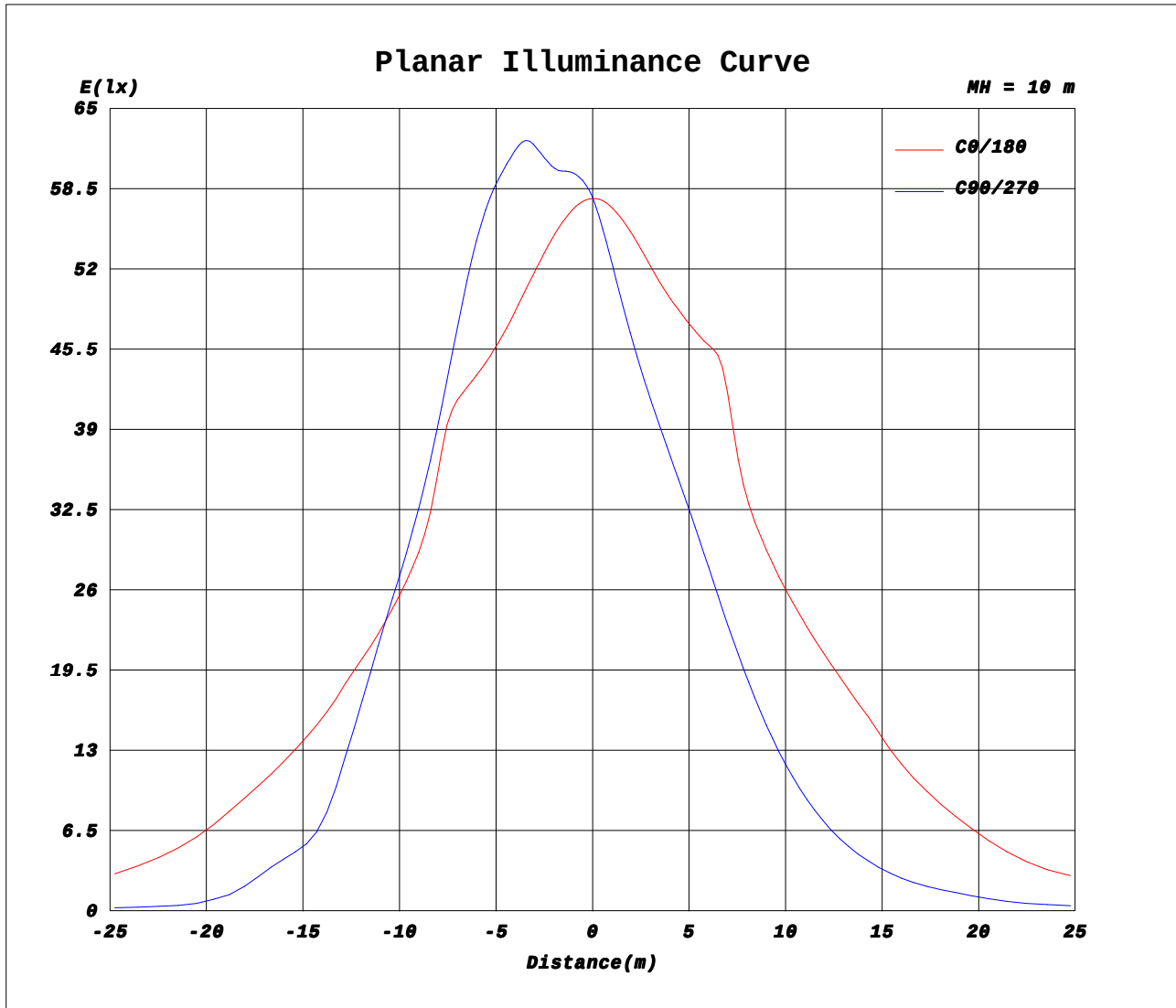
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NAME: ST-S004	TYPE:LED	WEIGHT:
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Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:01 September 2025

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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

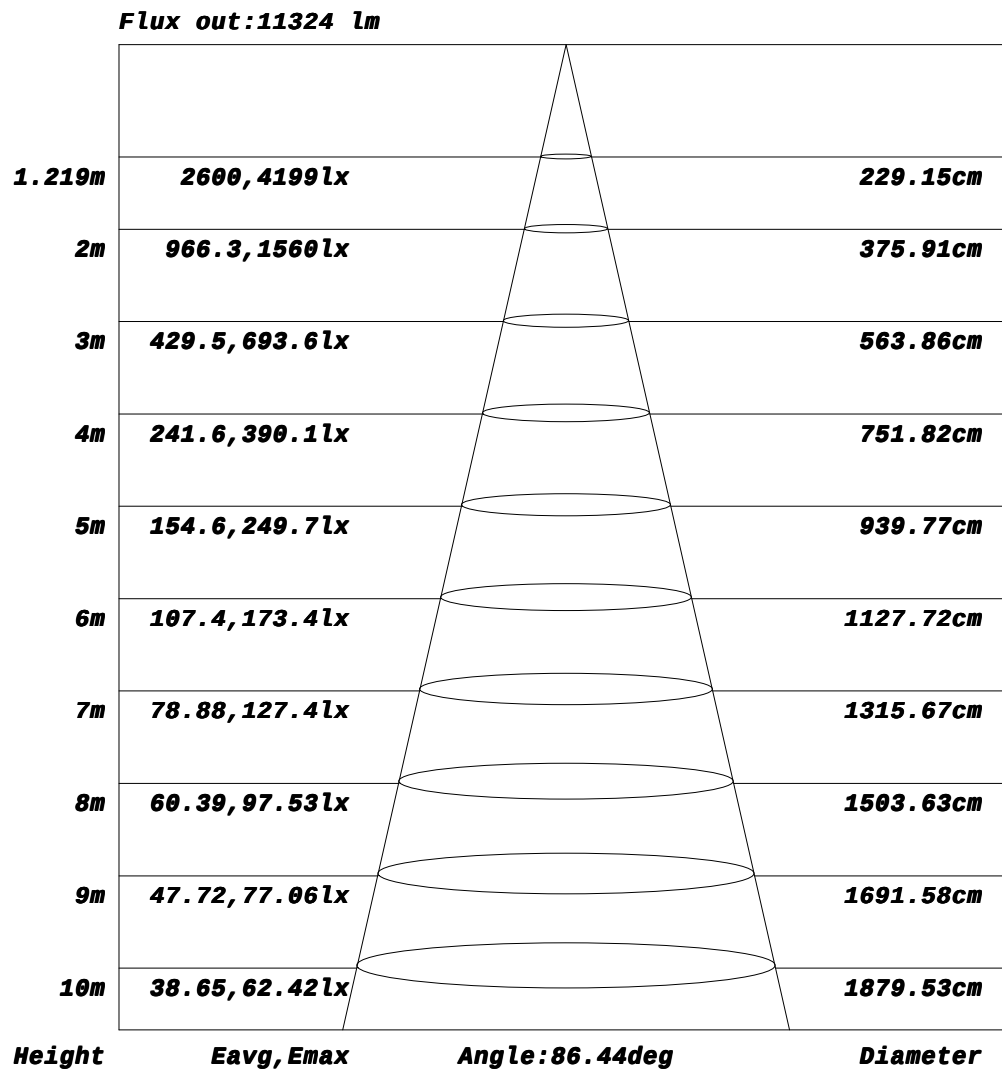


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LEO
Test Date: 01 September 2025

V(β) Range: -180 - 180DEG
V(β) 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:220.9V I:0.6903A P:149.9W PF:0.9833 Freq:49.99Hz Lamp Flux:24126.8x1 lm		
NAME: ST-S004	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:220.9V I:0.6903A P:149.9W PF:0.9833 Freq:49.99Hz Lamp Flux:24126.8x1 lm		
NAME: ST-S004	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
V(°)	-180	-170	-160	-150	-140	-130	-120	-110	-100	-90	-80	-70	-60	-50	-40	-30	-20	-10	0
-180	34.4	34.3	34.4	34.5	34.4	33.6	32.3	30.7	29.1	27.6	26.1	24.6	23.1	21.8	20.3	19.0	18.1	17.7	21.0
-170	34.4	33.9	33.6	33.2	32.6	31.5	30.0	28.2	26.4	24.8	23.2	21.8	20.5	19.4	18.5	17.9	17.6	19.0	20.7
-160	34.4	33.4	32.7	32.0	31.0	29.6	27.9	26.0	24.1	22.3	20.7	19.2	18.0	16.9	16.0	16.5	17.4	18.4	19.3
-150	34.4	33.1	31.9	30.8	29.4	27.9	26.0	24.0	22.0	20.1	18.3	16.7	15.3	14.6	15.2	15.9	16.5	17.0	17.5
-140	34.4	32.7	31.2	29.7	28.0	26.3	24.3	22.2	20.1	18.0	16.1	14.3	13.7	14.2	14.7	15.1	15.6	16.0	16.4
-130	34.4	32.4	30.5	28.7	26.8	24.8	22.8	20.6	18.4	16.2	14.0	13.1	13.4	13.8	14.2	14.5	14.9	15.2	15.5
-120	34.4	32.2	30.0	27.9	25.8	23.6	21.4	19.1	16.8	14.5	12.6	12.8	13.1	13.3	13.6	13.9	14.1	14.3	14.6
-110	34.4	32.1	29.7	27.4	25.0	22.7	20.3	18.0	15.6	13.2	12.4	12.6	12.7	12.9	13.1	13.3	13.5	13.6	13.8
-100	34.4	32.0	29.6	27.2	24.7	22.3	19.8	17.3	14.8	12.3	12.3	12.4	12.6	12.7	12.9	13.0	13.2	13.3	13.4
-90	34.4	32.0	29.6	27.3	24.9	22.6	20.2	17.8	15.5	13.1	13.4	13.6	13.9	14.1	14.4	14.7	14.9	15.2	15.4
-80	34.4	33.2	34.7	39.2	47.8	60.6	75.4	90.9	110	131	157	177	194	201	199	190	175	155	132
-70	34.4	37.4	52.6	79.1	118	200	331	485	608	657	661	666	658	637	604	565	518	464	403
-60	34.4	44.4	77.7	144	330	661	1053	1443	1568	1382	1390	2157	2878	3480	3619	3482	3181	2766	2237
-50	34.4	52.6	109	306	814	1649	2498	2732	3529	5384	6683	7086	6909	6653	6609	6691	6711	6634	6433
-40	34.4	61.0	150	579	1608	3108	3680	5313	7015	7715	8000	8212	8537	8786	8837	8709	8532	8341	8134
-30	34.4	68.5	222	954	2755	4146	5569	7302	7991	8121	8358	8881	9267	9240	8848	8616	8509	8500	8565
-20	34.4	74.2	288	1356	3783	4983	7032	7919	8150	8117	8319	8405	8471	8167	7890	7709	7549	7463	7507
-10	34.4	77.7	329	1694	4541	5849	7550	8224	8045	7822	7701	7872	7727	7199	6909	6629	6398	6269	6281
0	34.4	78.9	343	1863	5028	6383	7759	8333	7910	7370	7026	7636	7110	6484	6088	5897	5812	5783	5772
10	34.4	78.4	326	1688	4562	5753	6982	7435	7123	6656	6328	6484	6430	5855	5514	5286	5109	5097	5016
20	34.4	75.5	283	1341	3811	4933	6079	6406	6360	5968	5648	5442	5522	5338	4946	4844	4822	4750	4646
30	34.4	70.4	218	927	2766	4235	4938	5348	5402	5164	4859	4624	4440	4361	4508	4600	4596	4542	4461
40	34.4	63.7	151	548	1583	3178	3732	4161	4201	4026	3776	3484	3494	3676	3801	3879	3913	3904	3855
50	34.4	56.2	114	287	760	1623	2593	2916	2932	2822	2472	2346	2508	2647	2753	2822	2849	2834	2774
60	34.4	48.4	84.0	147	298	584	986	1444	1710	1673	1510	1610	1668	1710	1739	1743	1721	1677	1611
70	34.4	41.3	61.0	89.2	128	190	278	381	474	531	595	684	767	826	869	877	854	815	764
80	34.4	36.3	42.9	53.0	65.5	80.1	96.7	114	134	153	160	167	173	177	180	179	175	169	159
90	34.4	34.5	34.6	34.7	34.9	35.0	35.1	35.2	35.3	35.5	34.8	34.2	33.6	32.9	32.3	31.7	31.0	30.4	29.8
100	34.4	34.1	33.7	33.3	32.9	32.4	32.0	31.5	31.0	30.5	30.1	29.8	29.4	29.1	28.7	28.4	28.1	27.8	27.5
110	34.4	34.0	33.6	33.2	32.7	32.2	31.7	31.1	30.4	29.7	29.2	28.7	28.3	27.9	27.5	27.1	26.8	26.4	26.1
120	34.4	34.0	33.6	33.2	32.7	32.2	31.6	30.8	30.0	29.2	28.4	27.8	27.3	26.8	26.3	25.9	25.5	25.2	24.9
130	34.4	34.0	33.7	33.3	32.9	32.3	31.5	30.6	29.6	28.5	27.4	26.5	25.9	25.3	24.8	24.3	24.0	23.6	23.3
140	34.4	34.0	33.8	33.5	33.0	32.4	31.5	30.4	29.1	27.8	26.6	25.5	24.7	24.2	23.6	23.1	22.6	22.2	21.9
150	34.4	34.1	33.9	33.7	33.3	32.5	31.4	30.1	28.6	27.2	26.0	25.1	24.2	23.5	23.0	22.6	22.4	22.3	22.1
160	34.4	34.2	34.1	34.0	33.6	32.7	31.5	30.0	28.4	27.0	25.8	24.7	23.8	23.1	22.9	22.8	22.7	22.8	23.0
170	34.4	34.2	34.3	34.2	33.9	33.1	31.8	30.2	28.6	27.1	25.7	24.5	23.4	22.6	21.9	21.5	21.7	22.0	22.4
180	34.4	34.3	34.4	34.5	34.4	33.6	32.3	30.7	29.1	27.6	26.1	24.6	23.1	21.8	20.3	19.0	18.1	17.7	21.1

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.6903A P:149.9W PF:0.9833 Freq:49.99Hz Lamp Flux:24126.8x1 lm																		
NAME: ST-S004									TYPE:LED					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:1				
MFR.: GUOZHAN									SUR.:					Shielding Angle:				

Table--2
UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	17.6	17.6	17.6	17.5	17.2	16.9	16.5	15.9	15.2	14.5	13.9	13.4	12.9	12.3	11.8	11.1	10.3	20.8	
-170	20.4	20.1	19.2	18.6	18.0	17.5	16.9	16.2	15.4	14.7	14.1	13.5	13.0	12.4	11.9	11.1	10.4	20.8	
-160	19.3	19.2	19.1	18.8	18.2	17.6	16.9	16.2	15.4	14.7	14.1	13.5	12.9	12.4	11.8	11.1	10.4	20.8	
-150	17.7	17.9	17.9	17.9	17.7	17.2	16.5	15.8	15.1	14.5	13.9	13.3	12.8	12.3	11.7	11.0	10.4	20.8	
-140	16.6	16.7	16.7	16.7	16.5	16.3	15.8	15.2	14.7	14.1	13.6	13.0	12.6	12.1	11.6	11.0	10.4	20.8	
-130	15.6	15.6	15.6	15.5	15.3	15.1	14.9	14.5	14.0	13.5	13.1	12.7	12.3	11.9	11.4	10.9	10.4	20.8	
-120	14.6	14.5	14.5	14.4	14.2	14.0	13.8	13.6	13.2	12.9	12.6	12.4	12.0	11.6	11.2	10.8	10.4	20.8	
-110	13.7	13.6	13.6	13.4	13.3	13.2	13.0	12.9	12.7	12.5	12.3	12.0	11.7	11.4	11.1	10.7	11.1	20.8	
-100	13.3	13.2	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.4	12.2	12.0	11.7	11.4	11.1	11.4	13.7	20.8	
-90	15.9	16.3	16.7	17.1	17.6	18.0	18.4	18.8	19.3	19.4	19.6	19.8	20.0	20.1	20.3	20.5	20.6	20.8	
-80	181	228	269	305	333	350	354	344	316	256	197	142	110	84.2	63.3	46.2	31.8	20.8	
-70	510	597	650	675	690	718	752	788	864	919	815	638	415	242	131	77.5	44.1	20.8	
-60	2842	3338	3733	4031	4299	4333	3908	2969	2047	1856	2003	1761	1194	687	299	121	56.5	20.8	
-50	6712	6857	6883	6819	6857	7157	7501	7282	6489	5155	3568	2974	2646	1526	647	199	69.3	20.8	
-40	8323	8511	8725	8961	9141	9073	8656	8196	7980	7539	6442	4618	3648	2836	1161	311	83.4	20.8	
-30	8473	8445	8504	8701	9082	9236	9088	8691	8259	8050	7762	6502	4585	3938	1864	452	96.2	20.8	
-20	7381	7416	7589	7783	7966	8375	8431	8357	8247	8084	8055	7543	5755	4516	2595	620	106	20.8	
-10	6260	6316	6454	6722	7006	7417	8038	7705	7792	7973	8037	7954	6476	4888	3212	757	111	20.8	
0	5772	5791	5855	5996	6264	6760	7534	7195	7236	7707	7983	8101	6807	5213	3541	811	112	20.8	
10	5079	5055	5208	5408	5680	6152	6723	6368	6567	7001	7243	7335	6174	4894	3208	748	111	20.8	
20	4722	4776	4802	4845	5213	5583	5578	5654	5942	6252	6505	6433	5348	4546	2584	605	106	20.8	
30	4521	4570	4594	4547	4420	4514	4706	4937	5206	5438	5646	5208	4378	3971	1837	433	96.8	20.8	
40	3916	3939	3927	3882	3803	3683	3698	3930	4211	4475	4374	3988	3718	2829	1115	293	84.7	20.8	
50	2867	2916	2926	2895	2825	2719	2578	2697	3000	3121	3054	3074	2658	1467	593	188	71.1	20.8	
60	1705	1776	1820	1831	1798	1736	1681	1612	1792	2008	2076	1718	1101	602	268	121	58.8	20.8	
70	832	889	932	946	924	897	851	781	763	773	656	500	333	212	130	81.6	47.2	20.8	
80	180	197	212	222	229	234	236	235	231	204	173	143	117	92.9	71.2	52.5	35.7	20.8	
90	33.1	36.3	39.6	42.9	46.2	49.5	52.8	56.1	59.4	55.1	50.9	46.6	42.3	38.0	33.7	29.4	25.1	20.8	
100	27.8	28.2	28.5	28.9	29.3	29.7	30.1	30.5	30.7	28.5	26.3	24.1	21.9	19.7	18.2	17.2	17.4	20.8	
110	26.5	26.9	27.3	27.8	28.2	28.7	29.2	29.6	29.3	27.3	25.4	23.3	21.2	19.1	16.9	14.7	13.9	20.8	
120	25.3	25.7	26.2	26.7	27.2	27.8	28.4	29.0	27.7	26.0	24.3	22.5	20.6	18.6	16.5	14.4	12.5	20.8	
130	23.7	24.2	24.7	25.3	25.9	26.6	27.3	27.1	25.8	24.4	23.0	21.4	19.7	17.9	16.0	14.0	12.0	20.8	
140	22.2	22.6	23.1	23.7	24.4	25.2	25.4	24.6	23.6	22.5	21.4	20.1	18.6	17.1	15.4	13.6	11.7	20.8	
150	22.2	22.3	22.4	22.8	23.3	23.1	22.6	22.0	21.3	20.5	19.6	18.6	17.4	16.1	14.7	13.1	11.4	20.8	
160	22.7	22.5	22.5	22.4	21.6	20.9	20.4	19.8	19.2	18.5	17.8	16.9	16.0	15.0	13.8	12.5	11.1	20.8	
170	21.2	20.7	20.4	20.1	19.6	19.0	18.5	17.8	17.2	16.5	15.9	15.2	14.5	13.7	12.9	11.8	10.7	20.8	
180	17.6	17.6	17.6	17.5	17.2	16.9	16.5	15.9	15.2	14.5	13.9	13.4	12.9	12.3	11.8	11.1	10.3	20.8	

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: