

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	369.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	135.7V x 161.4H
	At 50% of Imax	94.5V x 147.7H
	At 90% of Imax	37.1V x 113.5H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	972.9 lumens per klm.
	To 50% of Imax	806.0 lumens per klm.
	To 90% of Imax	227.5 lumens per klm.

Upward LOR	0.6 %
Downward LOR	99.4 %

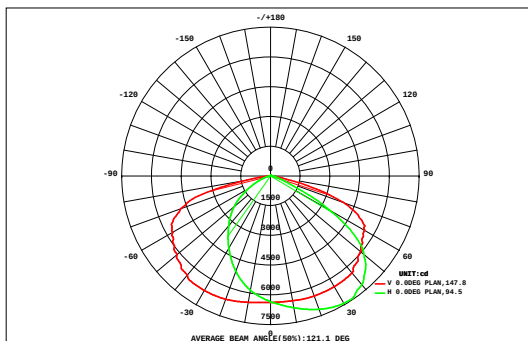
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:02 September 2025

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:220.7V I:0.6889A P:149.6W PF:0.9839 Freq:49.99Hz Lamp Flux:20462.5x1 lm		
NAME: ST-S002	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:136.80lm/W	
MODEL		Imax(cd)	7564
NOMINAL POWER(W)		AVAILABILITY(%)	97.4
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	19937
NOMINAL FLUX(lm)	20462.5	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	20462
TEST VOLTAGE(V)	220	θ @50%(H,V)	148,95DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT: lm		Φ t	Φ a
	0.09	0.28	0.49	0.70	0.89	1.09	1.25	1.35	1.37	1.34	1.25	1.11	0.95	0.83	0.81	0.52	0.23	0.05	14.6	0.00
90	0.10	0.41	1.25	2.66	3.27	4.36	5.85	7.03	7.58	7.51	6.83	5.55	3.94	3.48	4.56	2.65	0.78	0.08	67.9	0.00
80	0.12	0.97	4.72	10.9	11.8	14.3	20.3	24.6	26.3	25.7	23.1	18.5	13.0	13.2	17.2	9.64	2.38	0.16	237	129
70	0.15	2.37	12.8	26.4	30.0	34.1	46.5	54.8	57.4	55.5	49.7	39.9	28.3	28.8	32.1	22.1	5.50	0.31	527	519
60	0.20	4.80	24.3	43.6	52.8	60.0	75.7	86.5	88.8	85.4	77.4	63.7	49.0	48.6	46.0	33.8	10.2	0.52	851	848
50	0.29	8.11	35.8	59.1	74.4	87.5	103	115	117	111	99.8	83.0	74.4	69.7	59.9	43.2	15.5	0.76	1157	1155
40	0.39	11.7	45.6	72.4	93.9	114	129	141	145	138	122	105	101	90.5	73.3	51.6	20.3	1.01	1456	1454
30	0.48	14.8	53.9	84.0	111	135	152	162	169	163	147	138	128	110	86.3	59.3	24.0	1.24	1739	1737
20	0.54	17.0	60.5	94.3	126	152	170	181	186	183	178	169	153	129	98.6	66.2	26.7	1.38	1992	1991
10	0.54	17.0	60.5	96.7	132	163	183	195	199	200	197	187	169	140	105	68.5	27.0	1.39	2143	2141
0	0.48	14.7	53.8	90.1	130	166	192	209	212	211	208	196	175	142	105	65.8	24.8	1.27	2197	2195
-10	0.39	11.7	45.2	79.0	121	163	195	215	221	221	217	205	178	142	102	60.7	21.4	1.05	2199	2197
-20	0.30	8.13	35.3	62.0	101	146	184	208	221	223	217	203	175	136	94.4	52.6	16.8	0.80	2085	2082
-30	0.21	4.85	24.1	42.5	64.4	105	153	184	201	206	200	185	160	122	78.0	41.6	11.4	0.56	1784	1780
-40	0.15	2.43	12.9	25.5	27.9	44.8	86.5	123	146	156	155	143	122	86.6	53.1	28.0	6.51	0.35	1219	1211
-50	0.12	1.01	4.90	10.9	11.0	13.4	23.8	38.0	50.4	62.0	70.2	68.1	56.8	41.6	29.3	13.5	2.98	0.18	498	447
-60	0.10	0.42	1.36	2.99	3.83	5.32	7.52	9.73	11.5	15.2	19.8	21.3	19.6	15.5	9.92	4.22	1.01	0.09	149	52.6
-70	0.09	0.25	0.43	0.65	0.91	1.31	1.76	2.18	2.49	3.01	3.58	3.68	3.31	2.55	1.54	0.72	0.25	0.05	28.8	0.00
-80	0.09	0.25	0.43	0.65	0.91	1.31	1.76	2.18	2.49	3.01	3.58	3.68	3.31	2.55	1.54	0.72	0.25	0.05	28.8	0.00
-90	0.09	0.25	0.43	0.65	0.91	1.31	1.76	2.18	2.49	3.01	3.58	3.68	3.31	2.55	1.54	0.72	0.25	0.05	28.8	0.00
HORIZONTAL(DEG)																				
Φ t	4.71	121	478	804	1096	1411	1729	1958	2062	2070	1993	1836	1611	1321	996	625	218	11.3	20344	---
Φ a	0.00	101	461	785	1069	1377	1697	1926	2030	2038	1963	1808	1583	1300	981	611	204	3.29	---	19937

one-half-peak spread: U:26.4,D:35.7 , L:10.1,R:14.8

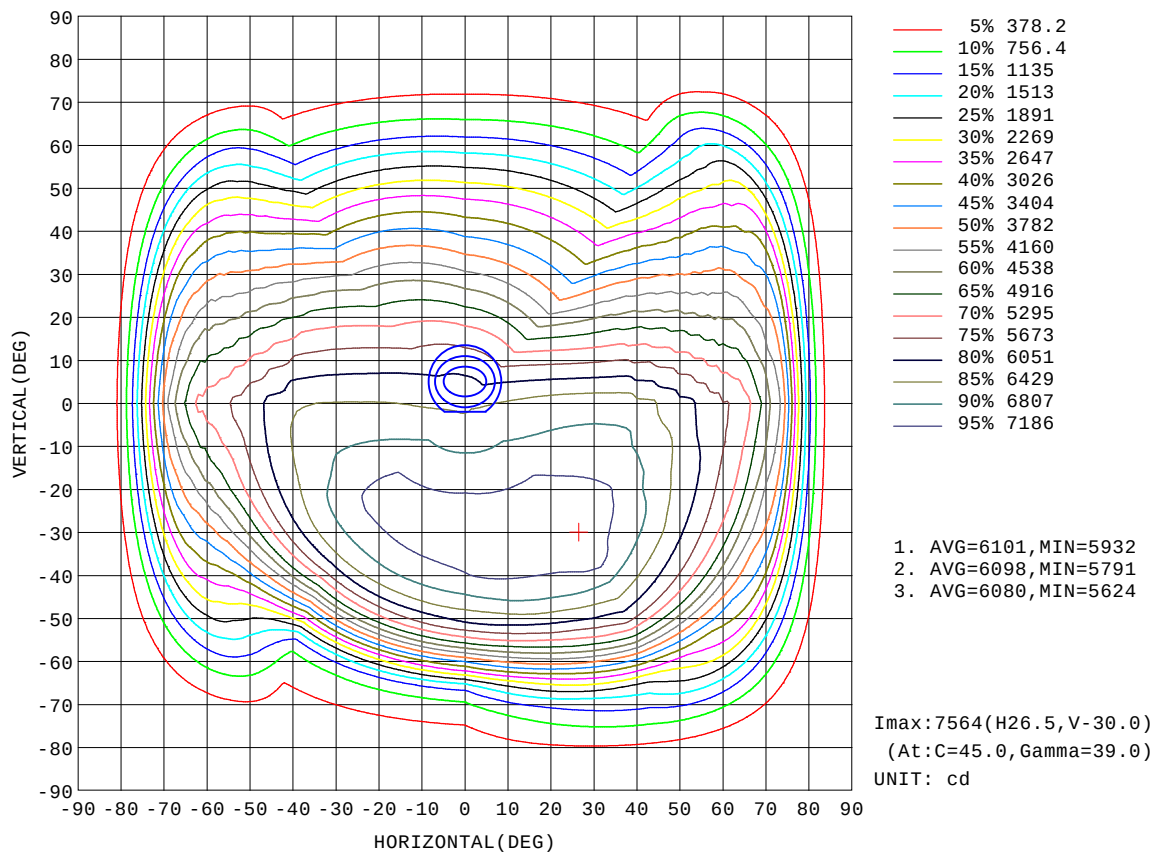
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:02 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:

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.6889A P:149.6W PF:0.9839 Freq:49.99Hz Lamp Flux:20462.5x1 lm		
NAME: ST-S002	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: GUOZHAN	SUR.:	Shielding Angle:

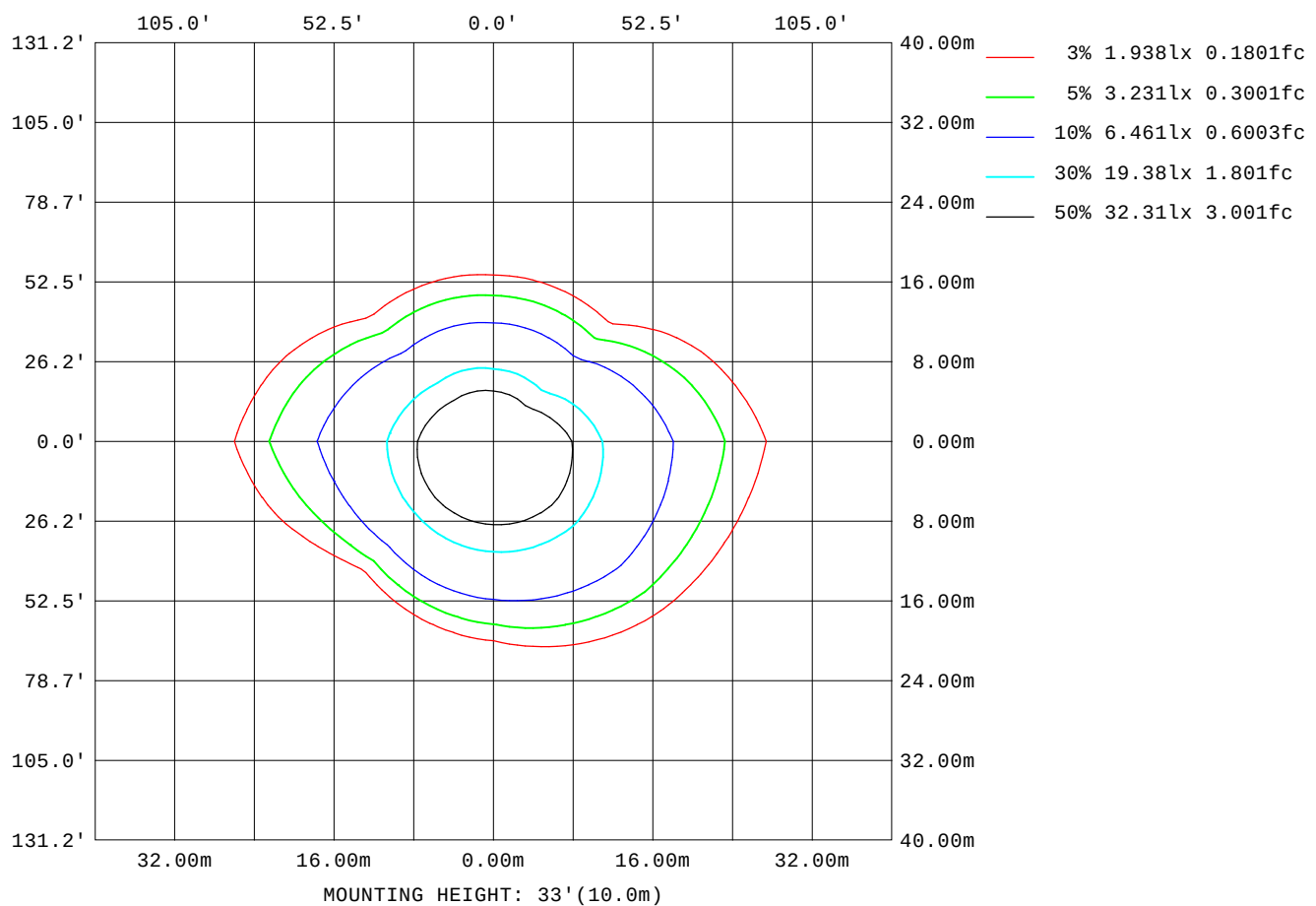


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Test Speed: HIGH
Temperature:25.3DEG
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Remarks:

ISOLUX DIAGRAM

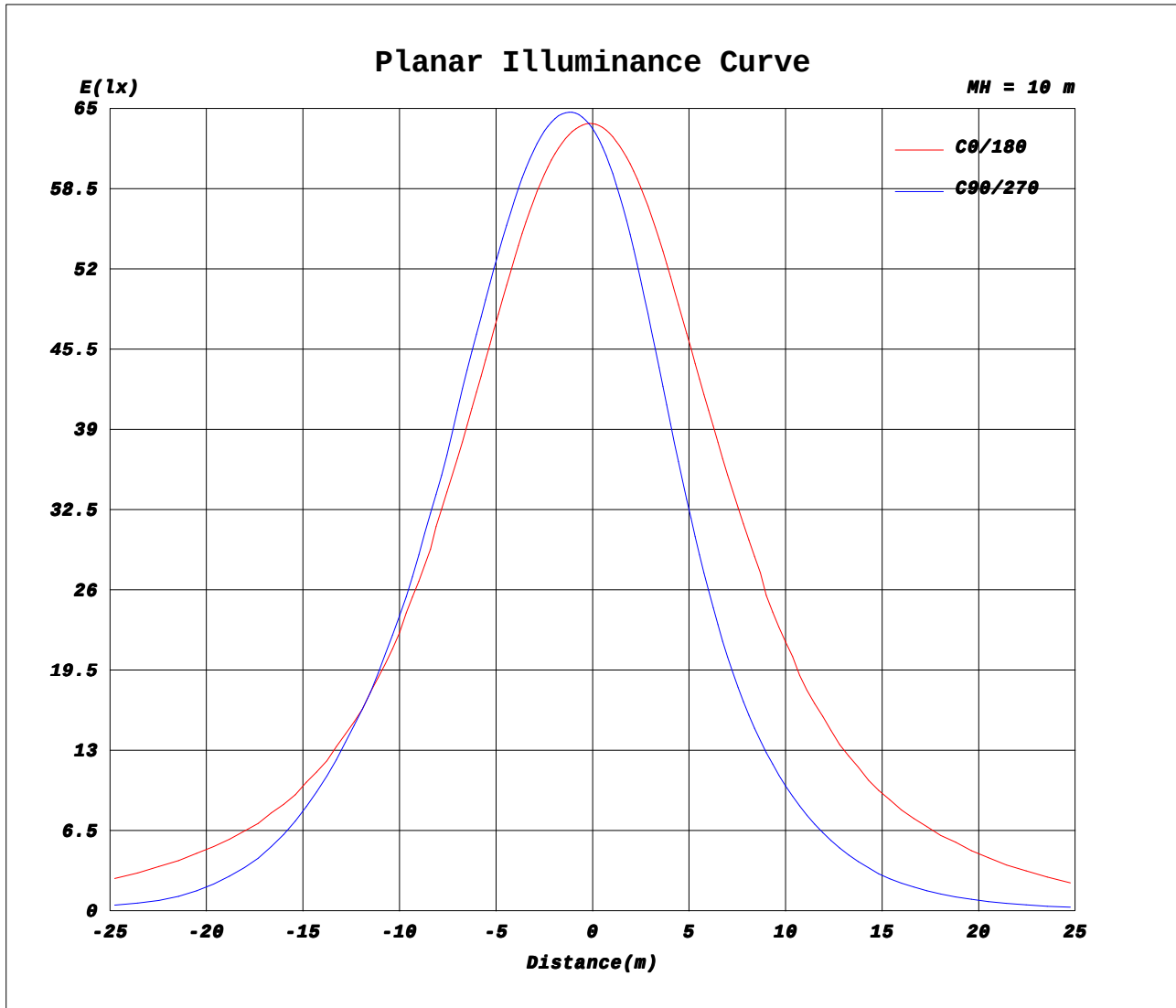
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Temperature:25.3DEG
Operators:LEO
Test Date:02 September 2025

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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

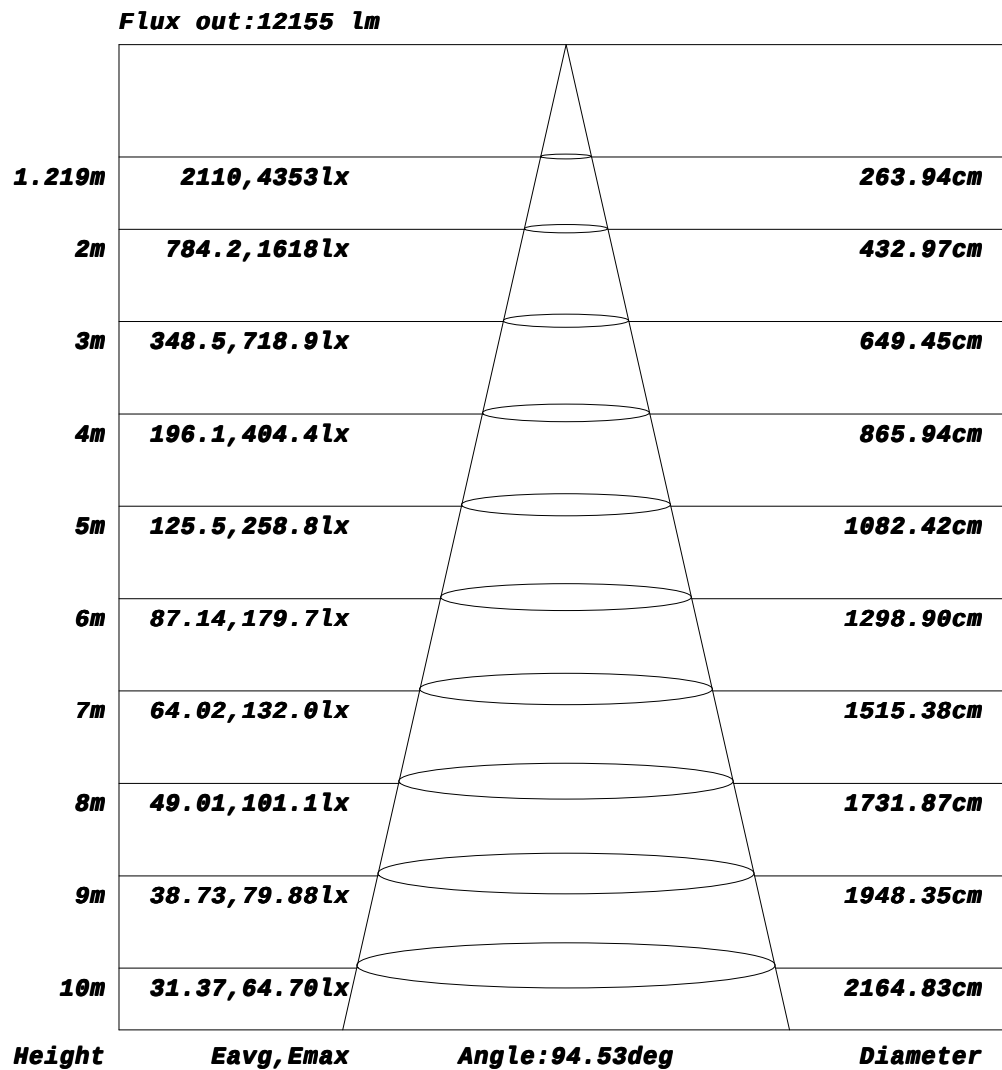


H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LEO
Test Date: 02 September 2025

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:220.7V I:0.6889A P:149.6W PF:0.9839 Freq:49.99Hz Lamp Flux:20462.5x1 lm		
NAME: ST-S002	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: 02 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:220.7V I:0.6889A P:149.6W PF:0.9839 Freq:49.99Hz Lamp Flux:20462.5x1 lm																		
NAME: ST-S002									TYPE:LED					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:1				
MFR.: GUOZHAN									SUR.:					Shielding Angle:				

Table--1
UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	34.3	32.2	30.7	30.1	29.5	28.7	27.6	26.4	25.2	23.9	22.6	21.5	20.4	19.4	18.5	17.7	17.2	16.8	19.7
-170	34.3	31.8	30.0	29.0	28.1	27.0	25.7	24.3	23.0	21.6	20.4	19.3	18.4	17.8	17.4	17.3	17.6	18.4	19.4
-160	34.3	31.6	29.4	28.0	26.8	25.5	24.0	22.5	21.0	19.6	18.4	17.3	16.4	15.8	15.4	16.1	16.9	17.7	18.3
-150	34.3	31.4	28.9	27.1	25.6	24.1	22.5	20.9	19.3	17.8	16.4	15.2	14.1	13.7	14.4	15.1	15.8	16.4	16.9
-140	34.3	31.3	28.6	26.4	24.7	22.9	21.2	19.4	17.7	16.1	14.6	13.1	12.7	13.2	13.6	14.1	14.6	15.1	15.5
-130	34.3	31.3	28.5	26.0	23.8	21.9	20.0	18.1	16.3	14.5	12.7	12.0	12.3	12.7	13.0	13.3	13.7	14.0	14.2
-120	34.3	31.5	28.6	26.0	23.5	21.2	19.2	17.1	15.1	13.1	11.5	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.2
-110	34.3	31.7	28.9	26.3	23.8	21.3	19.0	16.6	14.4	12.3	11.6	11.7	11.8	12.0	12.1	12.2	12.4	12.5	12.7
-100	34.3	31.9	29.4	27.0	24.5	22.2	19.8	17.5	15.3	13.1	12.9	12.9	13.0	13.1	13.2	13.3	13.5	13.6	13.8
-90	34.3	32.3	30.3	28.4	26.4	24.5	22.5	20.6	18.6	16.6	17.2	17.8	18.4	19.0	19.6	20.2	20.8	21.4	22.0
-80	34.3	33.3	34.3	38.0	43.1	49.5	57.7	69.5	79.5	84.3	98.0	113	128	142	155	167	178	186	193
-70	34.3	35.8	46.3	65.3	116	197	268	329	349	294	279	328	383	441	504	565	622	670	706
-60	34.3	40.7	64.7	172	354	605	876	1035	1005	820	613	837	1187	1638	2145	2586	2958	3241	3433
-50	34.3	46.4	117	369	824	1415	1829	1949	1902	1926	2278	3002	3870	4583	5153	5559	5844	6031	6156
-40	34.3	51.6	208	666	1529	2347	2744	2936	3321	3928	4605	5219	5845	6298	6629	6818	6985	7096	7170
-30	34.3	57.8	307	1056	2308	3188	3604	4057	4621	5270	5858	6357	6666	6989	7134	7289	7368	7390	7411
-20	34.3	63.2	401	1465	2965	3905	4439	4866	5411	5908	6346	6663	6871	7125	7264	7261	7207	7165	7157
-10	34.3	66.6	476	1788	3521	4478	5000	5336	5779	6169	6462	6617	6757	6826	6867	6887	6893	6782	6744
0	34.3	67.9	512	1971	3910	4938	5477	5623	5944	6165	6389	6427	6441	6444	6442	6424	6391	6374	6379
10	34.3	66.4	475	1788	3527	4496	4934	5082	5327	5544	5736	5804	5841	5857	5863	5864	5845	5890	5857
20	34.3	62.9	399	1464	2974	3942	4393	4485	4623	4764	4911	5056	5110	5134	5128	5184	5226	5213	5123
30	34.3	57.6	303	1053	2315	3227	3649	3807	3846	3917	3996	4064	4113	4193	4335	4401	4402	4343	4219
40	34.3	51.6	205	659	1530	2369	2818	2990	2997	2970	2964	2947	3049	3243	3382	3453	3457	3403	3296
50	34.3	46.7	114	361	817	1420	1859	2035	2033	1925	1793	1847	2064	2237	2357	2437	2468	2451	2395
60	34.3	41.4	63.2	165	342	593	874	1051	1050	919	766	918	1048	1162	1247	1312	1347	1349	1321
70	34.3	36.9	46.7	62.7	108	182	250	307	330	284	274	316	356	394	428	454	471	478	475
80	34.3	34.7	36.5	40.1	44.0	48.1	52.5	59.5	64.1	63.1	68.1	73.1	77.9	81.3	84.7	86.3	86.3	84.7	81.7
90	34.3	34.0	33.7	33.5	33.2	33.0	32.7	32.5	32.2	32.0	32.0	32.0	31.9	31.9	31.9	31.9	31.9	31.9	31.9
100	34.3	33.7	33.1	32.4	31.7	31.0	30.4	29.9	29.3	28.8	28.5	28.2	27.9	27.6	27.3	27.1	26.9	26.7	26.5
110	34.3	33.4	32.3	31.3	30.5	29.7	29.0	28.3	27.7	27.0	26.5	26.1	25.8	25.4	25.1	24.9	24.7	24.5	24.3
120	34.3	33.0	31.7	30.6	29.7	28.9	28.2	27.4	26.6	25.8	25.0	24.4	24.0	23.6	23.2	22.9	22.7	22.5	22.3
130	34.3	32.7	31.2	30.1	29.2	28.5	27.6	26.7	25.7	24.7	23.7	22.9	22.4	22.0	21.6	21.3	21.0	20.8	20.6
140	34.3	32.5	30.9	29.8	29.1	28.2	27.2	26.2	25.0	23.9	22.9	22.1	21.5	21.1	20.8	20.5	20.2	20.0	19.8
150	34.3	32.3	30.7	29.8	29.0	28.1	27.0	25.8	24.6	23.5	22.6	21.8	21.1	20.6	20.3	20.1	20.0	19.9	19.8
160	34.3	32.2	30.6	29.8	29.1	28.1	27.0	25.7	24.5	23.4	22.4	21.5	20.8	20.3	20.0	19.8	19.8	19.8	20.0
170	34.3	32.2	30.6	29.9	29.2	28.3	27.2	25.9	24.7	23.5	22.4	21.4	20.5	19.9	19.3	19.1	19.3	19.7	20.2
180	34.3	32.2	30.7	30.1	29.5	28.7	27.6	26.4	25.2	23.9	22.6	21.5	20.4	19.4	18.5	17.7	17.2	16.8	19.8

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:02 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:220.7V I:0.6889A P:149.6W PF:0.9839 Freq:49.99Hz Lamp Flux:20462.5x1 lm																		
NAME: ST-S002									TYPE:LED					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:1				
MFR.: GUOZHAN									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	
-180	16.6	16.5	16.3	16.0	15.6	15.1	14.7	14.1	13.5	13.0	12.5	12.0	11.5	11.0	10.6	10.5	10.8	14.3	
-170	19.0	18.6	17.7	16.9	16.2	15.6	15.0	14.3	13.7	13.1	12.6	12.1	11.6	11.1	10.7	10.5	10.8	14.3	
-160	18.1	17.8	17.5	17.0	16.3	15.6	14.9	14.3	13.6	13.1	12.5	12.0	11.6	11.1	10.7	10.6	10.8	14.3	
-150	16.8	16.6	16.4	16.0	15.6	15.1	14.5	13.9	13.4	12.9	12.4	11.9	11.5	11.1	10.8	10.7	10.9	14.3	
-140	15.4	15.3	15.1	14.9	14.6	14.3	13.9	13.4	13.0	12.5	12.1	11.7	11.3	11.0	10.8	10.7	11.0	14.3	
-130	14.2	14.1	14.0	13.8	13.6	13.4	13.1	12.8	12.5	12.2	11.8	11.5	11.2	11.0	10.8	10.8	11.0	14.3	
-120	13.2	13.1	13.0	12.9	12.8	12.6	12.5	12.3	12.1	11.8	11.6	11.4	11.2	11.0	10.9	11.0	11.1	14.3	
-110	12.6	12.5	12.5	12.4	12.3	12.2	12.1	12.0	11.8	11.7	11.5	11.4	11.2	11.2	11.2	11.2	11.3	14.3	
-100	13.6	13.4	13.2	13.0	12.8	12.6	12.4	12.2	11.9	11.8	11.7	11.6	11.6	11.5	11.4	11.6	12.1	14.3	
-90	22.0	21.9	21.9	21.9	21.8	21.8	21.7	21.7	21.6	20.8	20.0	19.2	18.4	17.6	16.7	15.9	15.1	14.3	
-80	239	280	314	339	352	357	351	334	305	274	230	177	130	86.9	53.1	31.8	21.5	14.3	
-70	898	1061	1180	1255	1295	1311	1298	1258	1228	1184	1043	815	580	368	201	84.8	29.8	14.3	
-60	3684	3854	3953	4001	3949	3818	3600	3276	2860	2498	2357	2076	1555	963	494	197	46.9	14.3	
-50	6255	6309	6296	6237	6143	6042	5897	5593	5049	4403	3740	3180	2800	1914	977	364	72.9	14.3	
-40	7225	7254	7214	7161	7159	7081	6810	6456	6060	5626	5062	4308	3604	2966	1614	564	107	14.3	
-30	7413	7430	7461	7488	7544	7400	7115	6870	6482	6133	5676	5152	4377	3699	2274	809	146	14.3	
-20	7154	7190	7253	7309	7291	7251	7140	6902	6654	6320	5916	5528	4941	4121	2880	1027	178	14.3	
-10	6774	6870	6899	6934	6952	6957	6935	6775	6549	6290	6037	5678	5271	4525	3321	1175	199	14.3	
0	6409	6470	6548	6614	6655	6674	6670	6525	6376	6160	5979	5684	5435	4802	3567	1243	207	14.3	
10	5748	5503	5537	5560	5584	5617	5666	5620	5543	5433	5322	5128	4934	4379	3261	1156	197	14.3	
20	5019	4813	4518	4267	4376	4504	4601	4694	4693	4669	4551	4512	4353	3874	2769	991	174	14.3	
30	4129	3973	3767	3530	3283	3360	3538	3674	3755	3789	3802	3875	3693	3399	2134	765	141	14.3	
40	3249	3163	3041	2885	2694	2469	2426	2595	2739	2902	3083	3104	3013	2654	1467	519	102	14.3	
50	2365	2301	2203	2070	1894	1686	1482	1520	1799	2058	2238	2350	2307	1637	852	327	68.7	14.3	
60	1307	1269	1207	1123	1024	910	787	661	936	1245	1501	1491	1188	765	410	173	44.1	14.3	
70	473	463	443	416	384	346	305	260	326	503	552	492	388	269	160	73.0	28.7	14.3	
80	81.4	79.7	76.6	71.9	65.6	60.1	53.9	49.0	49.0	83.7	98.1	95.2	81.6	62.0	43.0	29.4	21.8	14.3	
90	31.7	31.5	31.3	31.1	30.9	30.7	30.5	30.3	30.1	28.4	26.6	24.8	23.1	21.3	19.6	17.8	16.1	14.3	
100	26.4	26.4	26.4	26.3	26.4	26.4	26.4	26.5	26.4	24.8	23.3	21.7	20.1	18.4	16.7	14.9	13.5	14.3	
110	24.2	24.2	24.2	24.3	24.3	24.4	24.6	24.7	24.3	23.0	21.6	20.2	18.8	17.3	16.0	14.5	12.9	14.3	
120	22.3	22.3	22.3	22.4	22.6	22.8	23.0	23.3	22.4	21.4	20.2	19.0	17.7	16.4	15.2	14.0	12.7	14.3	
130	20.6	20.6	20.6	20.8	20.9	21.2	21.5	21.3	20.6	19.8	18.9	17.8	16.7	15.6	14.4	13.4	12.4	14.3	
140	19.7	19.5	19.5	19.5	19.6	19.9	19.9	19.4	18.8	18.2	17.5	16.7	15.7	14.7	13.7	12.8	12.1	14.3	
150	19.5	19.2	19.0	18.8	18.7	18.4	18.1	17.7	17.3	16.8	16.2	15.5	14.8	13.9	13.0	12.2	11.8	14.3	
160	19.6	19.2	18.8	18.4	17.8	17.3	16.8	16.4	16.0	15.5	15.0	14.4	13.7	13.0	12.3	11.7	11.4	14.3	
170	19.5	18.9	18.1	17.4	16.9	16.3	15.8	15.3	14.8	14.3	13.7	13.2	12.7	12.0	11.4	11.1	11.1	14.3	
180	16.6	16.5	16.3	16.0	15.6	15.1	14.7	14.1	13.5	13.0	12.5	12.0	11.5	11.0	10.6	10.5	10.8	14.3	

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LEO
Test Date:02 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: