

---

STN-SR01 150W

---



Light Output Ratio:	67.0%
Luminaire Power:	160.6 W
90% Beam Spread	37.4V x 64.2H
50% Beam Lumens	473.3 lumens per klm.

H( $\theta$ ) Range:-90 - 90DEG  
H( $\theta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity:65.0%  
Test Distance:7.030m [K=1.0000]  
Remarks:

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	298.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	137.0V x 144.0H
	At 50% of Imax	86.8V x 107.7H
	At 90% of Imax	37.4V x 64.2H

Beam Flux	Total	669.9 lumens per klm.
	To 10% of Imax	650.0 lumens per klm.
	To 50% of Imax	473.3 lumens per klm.
	To 90% of Imax	161.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	67.0 %

Luminaire Efficiency(Light Output Ratio)	67.0 %
--	--------

---

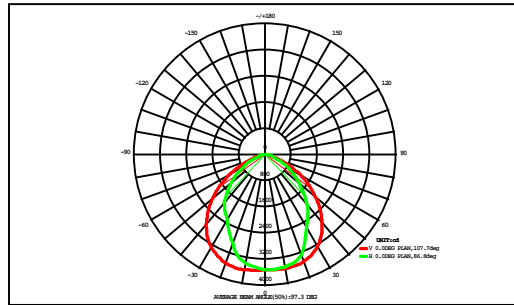
H(b) Range:-90 - 90DEG  
H(b) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-01-24

---

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity:65.0%  
Test Distance:7.030m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:220.3V I:0.7303A P:160.6W PF:0.9978 Lamp Flux:12000x1 lm		
NAME: STN-SR01 150W	TYPE:	WEIGHT:
SPEC.:STN-SR01 150W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:50.08lm/W	
MODEL	STN-SR01 150W	Imax(cd)	3587
NOMINAL POWER(W)	150	AVAILABILITY(%)	65.0
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	7801
NOMINAL FLUX(lm)	12000	LOR(%)	67.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	8040
TEST VOLTAGE(V)	220.4	q @50%(H,V)	108,87DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.01	0.06	0.28	0.73	1.31	1.84	2.17	2.29	2.25	2.09	1.75	1.28	0.74	0.30	0.06	0.01	0.00	17.2	0.00
90	0.00	0.01	0.06	0.28	0.73	1.31	1.84	2.17	2.29	2.25	2.09	1.75	1.28	0.74	0.30	0.06	0.01	0.00	17.2	0.00
80	0.00	0.03	0.19	0.87	2.26	4.08	5.71	6.75	7.14	7.01	6.51	5.43	3.97	2.28	0.93	0.18	0.02	0.00	53.4	0.00
70	0.00	0.12	0.87	2.98	6.54	10.7	14.5	16.8	17.4	17.1	16.3	14.0	10.4	6.45	2.98	0.81	0.10	0.00	138	108
60	0.01	0.30	2.18	6.83	13.9	21.7	28.8	33.2	33.9	33.2	32.3	28.2	21.1	13.6	6.66	2.00	0.25	0.01	278	269
50	0.01	0.57	3.97	11.6	22.5	34.2	44.7	51.1	52.1	51.1	49.8	43.7	33.2	21.6	11.1	3.61	0.49	0.01	435	429
40	0.02	1.01	6.46	17.6	32.4	48.0	61.1	69.0	70.3	69.4	67.3	59.5	46.2	30.6	16.5	5.73	0.85	0.02	602	598
30	0.02	1.44	8.86	23.7	42.5	61.8	77.6	87.4	89.0	88.4	85.1	75.3	59.4	40.1	21.9	8.01	1.24	0.03	772	769
20	0.03	1.79	10.8	28.6	50.7	72.8	90.8	102	104	104	100	88.8	70.5	48.4	27.0	10.1	1.58	0.03	912	910
10	0.03	1.95	11.6	30.2	53.4	76.4	94.2	105	107	107	103	92.5	74.3	51.3	29.0	11.0	1.76	0.04	950	948
0	0.03	1.88	11.0	28.7	51.4	74.3	91.9	103	105	105	102	90.9	73.0	50.0	28.0	10.7	1.72	0.03	928	926
-10	0.02	1.63	9.51	25.2	45.6	66.3	83.3	94.1	97.2	97.3	93.8	83.3	66.0	45.1	25.0	9.38	1.51	0.02	844	842
-20	0.02	1.26	7.61	20.1	36.5	53.5	67.6	76.5	79.1	79.6	77.0	68.1	53.7	36.6	20.3	7.42	1.16	0.02	686	683
-30	0.01	0.87	5.81	16.1	29.6	44.0	55.9	63.2	65.0	65.2	63.1	55.2	42.8	28.6	15.4	5.38	0.77	0.01	557	553
-40	0.01	0.47	3.66	11.3	21.7	33.0	42.8	48.8	50.2	50.3	49.0	42.7	32.5	21.2	10.8	3.46	0.44	0.01	422	417
-50	0.01	0.22	1.94	6.55	13.3	20.5	27.1	31.1	32.2	32.4	31.7	27.4	20.6	13.3	6.31	1.85	0.22	0.01	267	257
-60	0.00	0.09	0.76	2.74	5.88	9.45	12.7	14.8	15.6	15.7	15.1	13.0	9.61	5.97	2.71	0.73	0.10	0.01	125	92.5
-70	0.00	0.02	0.10	0.55	1.50	2.75	3.93	4.76	5.17	5.23	4.89	4.08	2.88	1.62	0.61	0.10	0.03	0.00	38.2	0.00
-80	0.00	0.01	0.05	0.22	0.56	1.00	1.40	1.69	1.83	1.85	1.73	1.46	1.04	0.60	0.24	0.06	0.02	0.00	13.8	0.00
-90	0.00	0.01	0.05	0.22	0.56	1.00	1.40	1.69	1.83	1.85	1.73	1.46	1.04	0.60	0.24	0.06	0.02	0.00	13.8	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
F t	0.23	13.7	85.5	234	431	636	806	911	936	932	901	795	623	418	226	80.6	12.3	0.26	8040	---
F a	0.00	2.79	72.5	222	419	622	789	892	916	912	882	779	608	406	213	66.7	1.61	0.00	---	7801

one-half-peak spread: U:47.2,D:40.2 , L:42.0,R:42.4

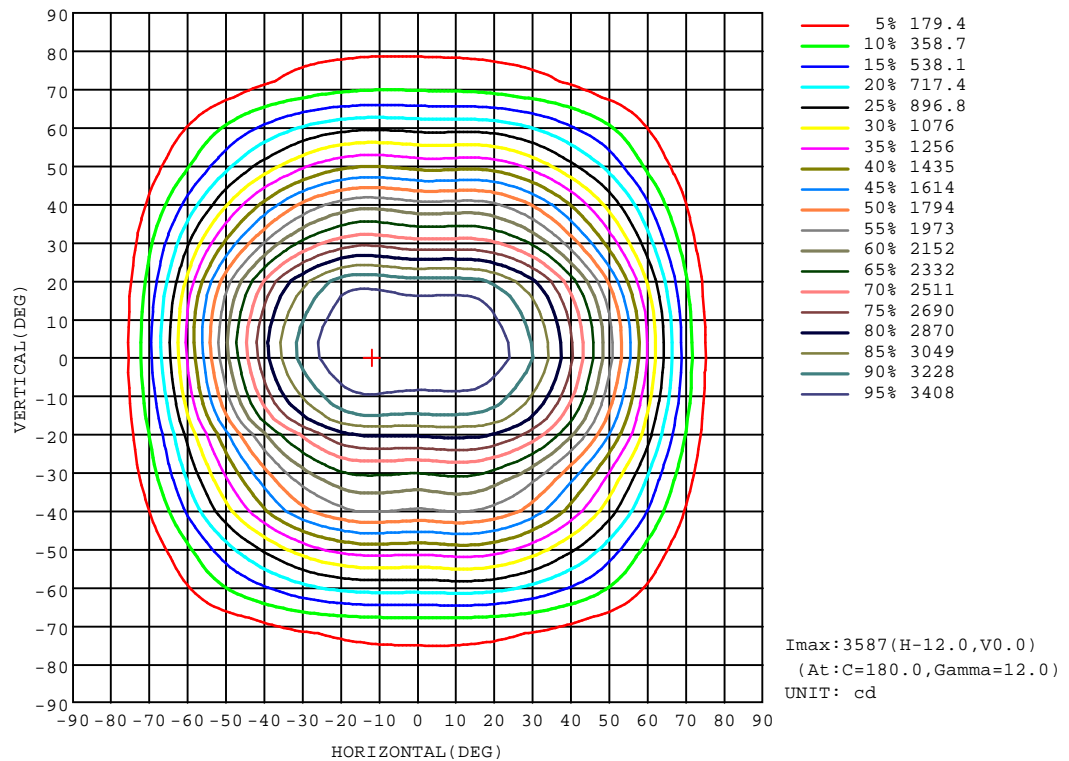
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity:65.0%  
Test Distance:7.030m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:220.3V I:0.7303A P:160.6W PF:0.9978 Lamp Flux:12000x1 lm		
NAME: STN-SR01 150W	TYPE:	WEIGHT:
SPEC.:STN-SR01 150W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

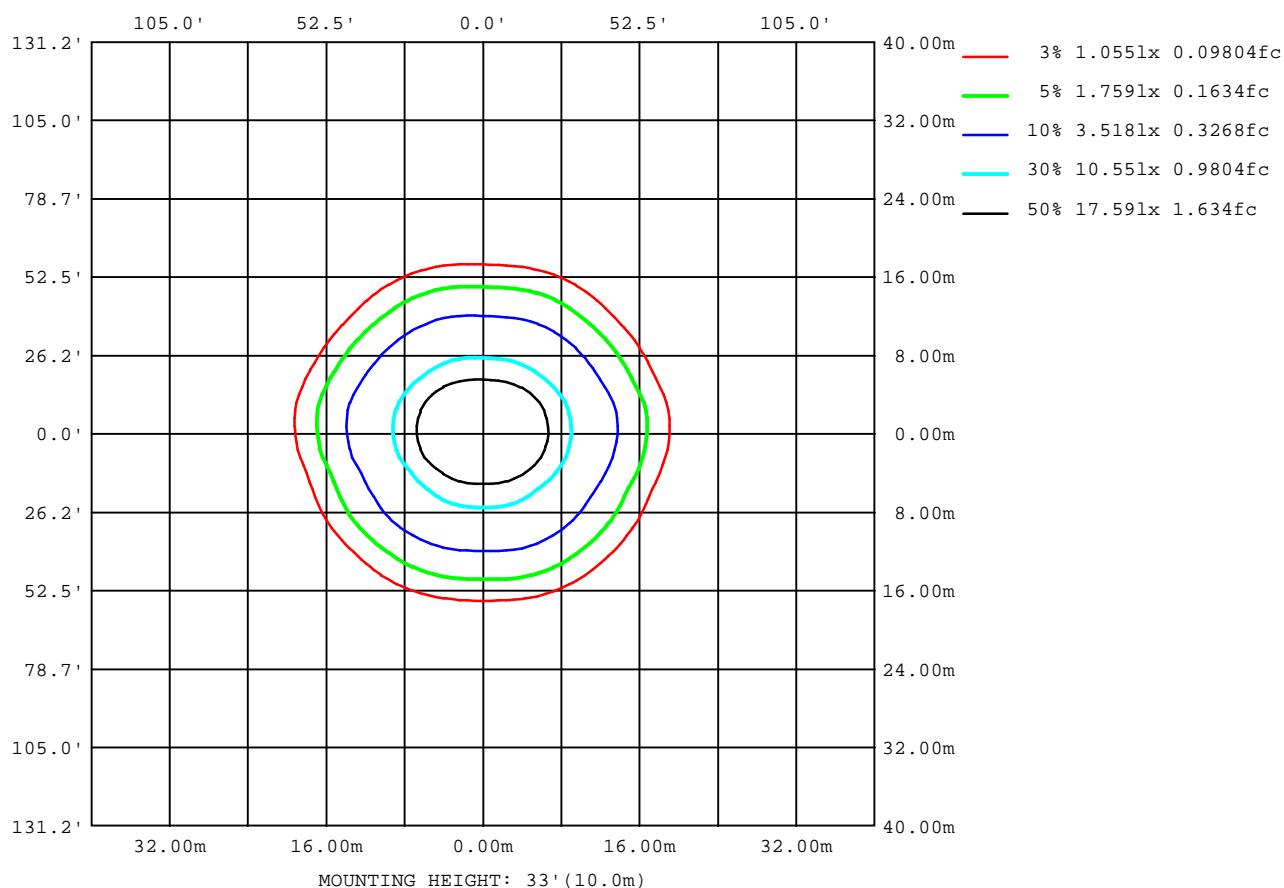


H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2015-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 7.030m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:220.3V I:0.7303A P:160.6W PF:0.9978 Lamp Flux:12000x1 lm		
NAME: STN-SR01 150W	TYPE:	WEIGHT:
SPEC.:STN-SR01 150W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



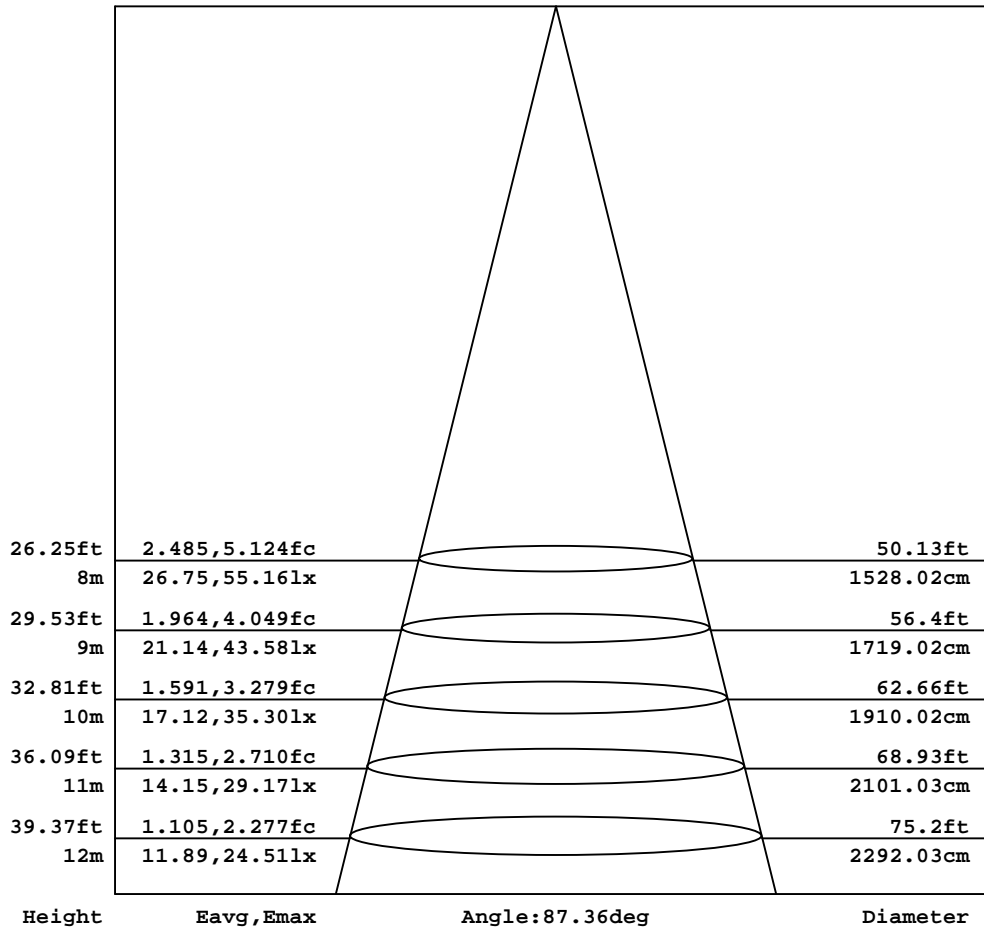
H(h) Range:-90 - 90DEG  
 H(h) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-01-24

V(B) Range:-90 - 90DEG  
 V(B) Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
 Humidity:65.0%  
 Test Distance:7.030m [K=1.0000]  
 Remarks:

### AAI Figure

Test:U:220.3V I:0.7303A P:160.6W PF:0.9978 Lamp Flux:12000x1 lm		
NAME: STN-SR01 150W	TYPE:	WEIGHT:
SPEC.:STN-SR01 150W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

Flux out:5016 lm

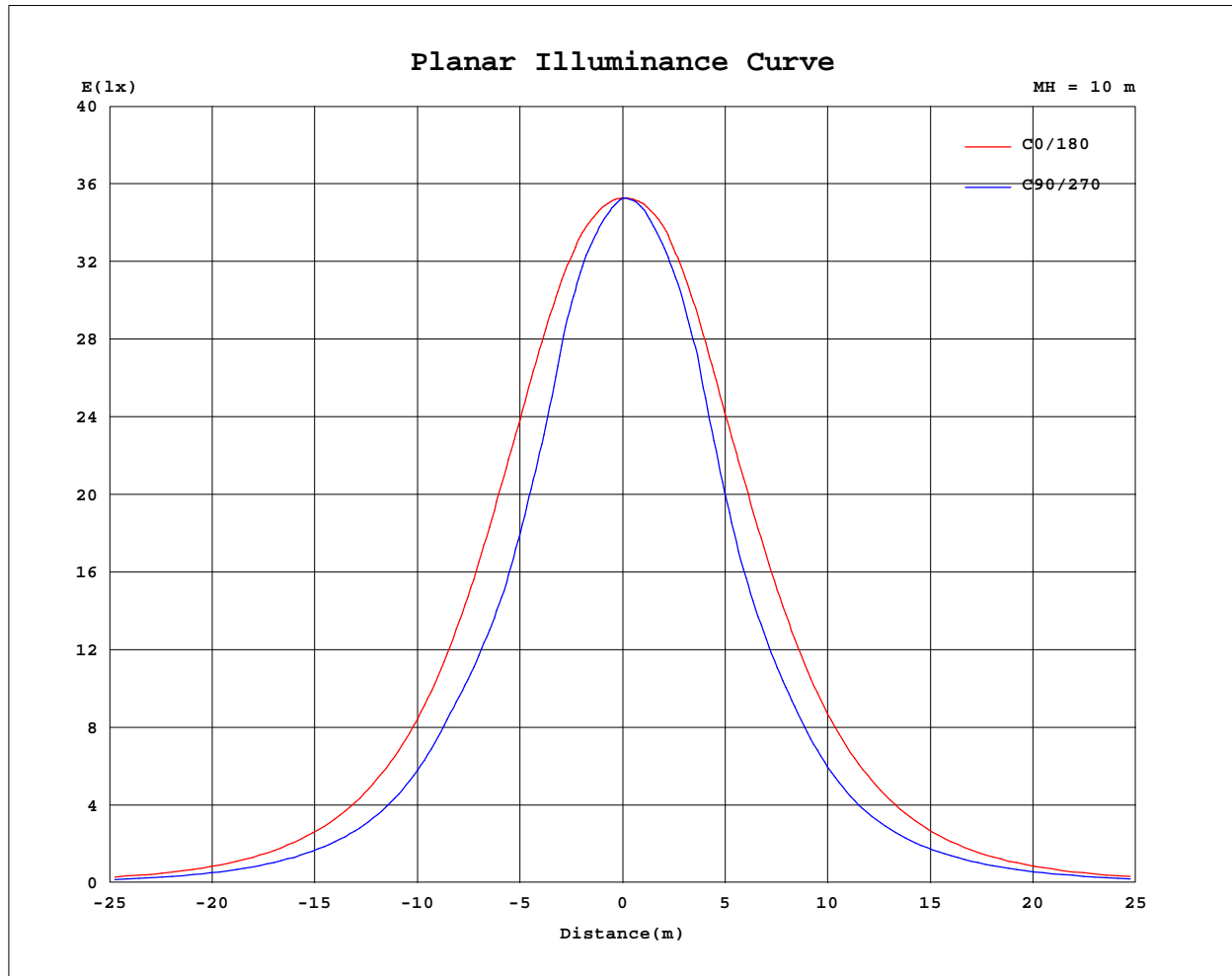


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range: -90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2015-01-24

V(B) Range: -90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity: 65.0%  
Test Distance: 7.030m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity:65.0%  
Test Distance:7.030m [K=1.0000]  
Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.3V I:0.7303A P:160.6W PF:0.9978 Lamp Flux:12000x1 lm		
NAME: STN-SR01 150W	TYPE:	WEIGHT:
SPEC.:STN-SR01 150W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION 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	0.59	1.24	1.25	1.26	1.33	1.39	1.40	1.42	1.38	1.31	1.19	1.10	0.96	0.85	0.75	0.72	0.70	0.69	0.72
-85	0.59	1.24	1.31	1.55	2.29	3.21	5.67	10.3	15.5	20.9	26.5	32.1	37.3	40.9	43.9	46.2	47.7	48.4	48.6
-80	0.58	1.24	1.40	2.00	3.74	5.95	12.1	23.5	36.7	50.4	64.4	78.6	91.7	101	109	114	118	120	121
-75	0.58	1.24	1.46	2.29	4.70	7.77	16.3	32.4	50.8	70.0	89.7	110	128	141	152	160	165	168	168
-70	0.58	1.25	1.55	2.73	6.14	10.5	22.7	45.6	72.0	99.4	128	156	183	201	217	228	236	239	240
-65	0.58	1.23	2.48	7.17	22.5	45.9	81.8	133	187	237	286	334	378	411	434	451	458	459	459
-60	0.57	1.20	3.88	13.8	47.1	99.0	170	264	359	444	525	602	671	725	761	785	791	789	787
-55	0.57	1.18	4.81	18.3	63.5	134	229	351	474	582	683	780	866	935	979	1008	1013	1009	1006
-50	0.57	1.15	6.21	24.9	88.0	187	318	481	646	789	921	1047	1159	1249	1306	1342	1346	1339	1334
-45	0.56	1.12	8.31	40.5	125	253	419	608	794	961	1119	1268	1395	1490	1556	1599	1600	1590	1580
-40	0.54	1.08	11.5	63.8	180	351	570	798	1015	1220	1415	1599	1747	1852	1932	1984	1981	1966	1949
-35	0.52	1.05	14.0	83.2	221	414	651	889	1122	1341	1546	1737	1888	1997	2081	2127	2127	2113	2097
-30	0.50	1.02	17.9	112	283	509	772	1026	1283	1523	1742	1943	2099	2215	2305	2342	2346	2332	2319
-25	0.50	1.04	21.1	127	315	556	842	1119	1400	1662	1899	2113	2276	2409	2515	2559	2566	2557	2550
-20	0.50	1.08	26.0	149	363	627	947	1258	1575	1869	2133	2367	2542	2698	2831	2885	2897	2896	2897
-15	0.49	1.23	31.3	170	402	694	1054	1405	1754	2088	2385	2631	2824	2991	3125	3185	3192	3181	3177
-10	0.49	1.21	34.8	182	443	769	1169	1562	1937	2286	2604	2870	3071	3231	3348	3402	3404	3392	3388
-5	0.48	1.39	38.0	199	474	818	1218	1622	2007	2371	2697	2971	3172	3317	3428	3476	3480	3462	3450
0	0.47	1.31	38.0	201	494	859	1268	1691	2099	2466	2796	3075	3278	3424	3535	3576	3579	3548	3530
5	0.47	1.41	40.1	205	504	877	1300	1720	2128	2493	2815	3087	3285	3436	3543	3580	3577	3552	3533
10	0.47	1.39	38.2	194	484	853	1277	1693	2080	2436	2753	3021	3223	3375	3485	3536	3532	3508	3488
15	0.48	1.76	38.4	192	469	823	1240	1656	2031	2377	2690	2955	3156	3320	3447	3498	3495	3471	3451
20	0.48	1.72	33.6	166	416	740	1122	1520	1890	2220	2521	2786	2987	3161	3299	3349	3335	3301	3280
25	0.48	1.65	30.3	151	380	677	1023	1383	1720	2022	2299	2546	2736	2890	3008	3059	3045	3011	2989
30	0.49	1.55	25.4	129	326	583	875	1178	1465	1726	1967	2186	2360	2484	2571	2624	2612	2575	2552
35	0.50	1.35	21.1	108	278	504	764	1035	1301	1546	1771	1977	2146	2270	2357	2409	2401	2368	2341
40	0.51	1.07	14.6	77.2	205	385	597	822	1056	1275	1478	1663	1825	1948	2035	2087	2086	2058	2023
45	0.52	0.96	12.2	61.9	166	315	492	690	896	1091	1271	1434	1578	1691	1770	1816	1816	1791	1759
50	0.54	0.81	8.48	39.0	107	209	335	492	655	814	961	1090	1207	1306	1372	1408	1410	1390	1363
55	0.54	0.76	6.97	32.0	87.7	171	274	407	544	679	804	915	1016	1100	1157	1188	1191	1175	1153
60	0.56	0.68	4.69	21.5	58.5	113	184	278	378	476	569	654	730	791	833	858	862	852	837
65	0.57	0.63	3.18	14.5	39.1	74.5	124	192	267	341	413	480	539	585	617	638	643	637	627
70	0.58	0.55	0.90	4.08	10.0	16.9	33.1	63.8	101	139	178	218	252	277	294	308	314	314	312
75	0.58	0.56	0.83	3.37	8.13	13.6	26.6	51.1	80.6	111	143	175	202	221	235	246	251	251	250
80	0.58	0.56	0.72	2.32	5.29	8.73	16.8	32.2	50.6	69.6	89.5	109	126	139	147	154	157	157	156
85	0.58	0.56	0.65	1.62	3.40	5.46	10.3	19.5	30.6	42.0	53.9	65.9	75.9	83.3	88.5	92.6	94.4	94.6	93.9
90	0.59	0.56	0.54	0.56	0.56	0.56	0.53	0.53	0.57	0.57	0.55	0.51	0.49	0.47	0.47	0.45	0.43	0.43	0.43

H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-01-24

V(B) Range:-90 - 90DEG  
V(B) Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284  
Humidity:65.0%  
Test Distance:7.030m [K=1.0000]  
Remarks:



**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.3V I:0.7303A P:160.6W PF:0.9978 Lamp Flux:12000x1 lm		
NAME: STN-SR01 150W	TYPE:	WEIGHT:
SPEC.:STN-SR01 150W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

**Table--2**
**UNIT: cd**

H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.72	0.81	0.89	0.96	1.03	1.10	1.27	1.39	1.53	1.63	1.72	1.81	1.87	1.96	2.02	1.98	1.97	0.73	
-85	49.0	48.7	47.5	45.5	42.5	38.9	33.6	28.1	22.6	16.9	11.2	6.16	3.64	3.03	2.30	1.99	1.94	0.73	
-80	121	121	117	112	105	95.5	82.2	68.2	54.2	39.9	25.4	12.7	6.31	4.62	2.73	1.99	1.90	0.72	
-75	170	168	164	157	146	133	115	94.9	75.3	55.1	34.9	17.0	8.08	5.68	3.01	1.99	1.87	0.72	
-70	242	240	234	224	209	190	163	135	107	78.1	49.1	23.6	10.7	7.28	3.43	2.00	1.82	0.72	
-65	462	465	460	445	419	385	341	293	243	188	131	79.5	44.3	23.0	7.86	2.85	1.76	0.71	
-60	792	803	799	777	733	677	607	530	447	353	254	163	94.6	46.6	14.5	4.13	1.66	0.71	
-55	1012	1028	1025	998	943	872	785	687	583	463	336	219	128	62.3	18.9	4.99	1.60	0.71	
-50	1342	1365	1364	1330	1258	1164	1051	924	786	627	460	303	178	85.9	25.6	6.27	1.50	0.71	
-45	1592	1614	1606	1565	1489	1383	1251	1102	942	767	578	395	239	118	38.4	8.47	1.41	0.70	
-40	1967	1988	1969	1917	1835	1711	1551	1369	1176	978	756	534	330	166	57.6	11.8	1.29	0.70	
-35	2117	2137	2118	2062	1975	1852	1688	1500	1299	1084	852	613	384	203	72.6	15.0	1.24	0.71	
-30	2341	2361	2342	2278	2186	2063	1894	1697	1485	1243	995	731	466	258	94.9	19.9	1.16	0.72	
-25	2571	2585	2572	2513	2416	2284	2105	1891	1655	1392	1120	828	531	296	112	22.7	1.20	0.72	
-20	2917	2921	2917	2865	2760	2616	2422	2184	1910	1615	1309	973	629	353	136	26.8	1.26	0.73	
-15	3188	3188	3174	3113	2998	2838	2622	2361	2064	1740	1403	1044	682	383	148	28.8	1.23	0.73	
-10	3390	3388	3374	3319	3198	3042	2827	2554	2236	1885	1521	1151	772	432	172	35.2	1.40	0.72	
-5	3452	3461	3450	3392	3282	3134	2917	2632	2300	1949	1579	1194	793	442	174	36.1	1.37	0.72	
0	3531	3541	3532	3483	3382	3232	3010	2720	2389	2036	1650	1247	832	462	188	40.0	1.48	0.72	
5	3535	3550	3534	3479	3373	3215	2995	2710	2385	2037	1656	1249	829	455	180	40.6	1.43	0.71	
10	3490	3495	3480	3420	3313	3155	2937	2659	2348	2003	1625	1228	808	443	179	41.5	2.13	0.72	
15	3455	3457	3446	3382	3256	3089	2862	2582	2273	1930	1558	1167	759	417	163	37.3	2.35	0.72	
20	3289	3286	3262	3190	3061	2895	2677	2401	2099	1765	1414	1055	683	377	147	34.2	2.40	0.69	
25	2994	2994	2979	2915	2802	2652	2446	2189	1908	1601	1280	950	610	334	130	30.2	2.05	0.69	
30	2552	2556	2553	2503	2414	2286	2098	1872	1621	1356	1080	791	501	271	105	24.0	1.52	0.68	
35	2340	2345	2345	2298	2210	2082	1903	1691	1458	1217	964	696	438	235	90.3	21.0	1.32	0.68	
40	2021	2029	2033	1990	1902	1776	1610	1419	1214	1008	789	554	344	181	68.0	16.4	1.01	0.68	
45	1754	1764	1768	1733	1653	1538	1390	1222	1046	864	664	458	283	146	52.0	13.6	0.89	0.68	
50	1353	1366	1371	1346	1279	1180	1060	925	793	648	477	313	191	93.6	28.1	9.24	0.72	0.68	
55	1144	1153	1156	1133	1075	992	890	776	663	539	396	258	156	76.1	23.2	7.56	0.70	0.67	
60	830	835	833	814	771	710	636	552	467	376	273	176	103	49.7	15.8	5.03	0.66	0.67	
65	621	623	618	601	568	522	467	402	336	267	191	121	68.0	32.2	10.9	3.34	0.64	0.66	
70	308	304	296	282	263	241	213	178	140	103	68.8	38.4	15.2	5.85	3.60	0.81	0.60	0.66	
75	246	244	237	226	210	193	170	142	112	82.6	55.1	30.8	12.3	4.79	2.99	0.77	0.60	0.65	
80	154	152	148	141	132	120	107	89.2	70.3	51.8	34.7	19.5	7.89	3.21	2.09	0.69	0.61	0.64	
85	92.7	91.6	89.0	84.9	79.2	72.5	64.2	53.7	42.4	31.3	21.0	11.9	4.96	2.15	1.48	0.65	0.62	0.64	
90	0.44	0.43	0.43	0.43	0.43	0.45	0.48	0.48	0.52	0.53	0.53	0.54	0.56	0.57	0.57	0.57	0.63	0.63	

**H(h) Range:-90 - 90DEG**  
**H(h) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:2015-01-24**

**V(B) Range:-90 - 90DEG**  
**V(B) Interval: 2.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.284**  
**Humidity:65.0%**  
**Test Distance:7.030m [K=1.0000]**  
**Remarks:**