

STN-SR01 120W



Light Output Ratio:	64.5%
Luminaire Power:	127.4 W
90% Beam Spread	32.0V x 70.7H
50% Beam Lumens	463.1 lumens per klm.

H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	283.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	137.5V x 144.9H
	At 50% of I _{max}	89.3V x 109.7H
	At 90% of I _{max}	32.0V x 70.7H

Beam Flux	Total	644.9 lumens per klm.
	To 10% of I _{max}	626.0 lumens per klm.
	To 50% of I _{max}	463.1 lumens per klm.
	To 90% of I _{max}	140.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	64.5 %

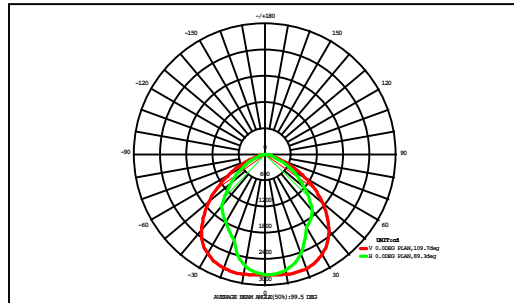
Luminaire Efficiency(Light Output Ratio)	64.5 %
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H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:0.5813A P:127.4W PF:0.9957 Lamp Flux:9900x1 lm		
NAME: STN-SR01 120W	TYPE:	WEIGHT:
SPEC.:STN-SR01 120W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:50.13lm/W	
MODEL	STN-SR01 120W	I _{max} (cd)	2806
NOMINAL POWER(W)	120	AVAILABILITY(%)	62.6
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	6197
NOMINAL FLUX(lm)	9900	LOR(%)	64.5
LAMPS INSIDE	1	TOTAL FLUX(lm)	6386
TEST VOLTAGE(V)	220.1	q @50%(H,V)	110,89DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.01	0.06	0.28	0.68	1.13	1.55	1.83	1.95	1.95	1.86	1.59	1.17	0.68	0.28	0.06	0.01	0.00	15.1	0.00
90	0.00	0.01	0.06	0.28	0.68	1.13	1.55	1.83	1.95	1.95	1.86	1.59	1.17	0.68	0.28	0.06	0.01	0.00	15.1	0.00
80	0.00	0.02	0.17	0.85	2.11	3.51	4.84	5.71	6.07	6.08	5.79	4.96	3.62	2.11	0.86	0.19	0.02	0.00	46.9	0.00
70	0.00	0.09	0.77	2.70	5.86	9.36	12.5	14.4	14.8	14.8	14.4	12.7	9.55	5.93	2.79	0.84	0.11	0.00	122	101
60	0.00	0.24	1.93	6.01	12.3	19.2	25.1	28.5	28.9	28.8	28.3	25.3	19.4	12.5	6.27	2.08	0.28	0.01	245	239
50	0.01	0.44	3.30	9.76	19.4	29.8	38.5	43.3	44.0	43.7	43.1	38.7	30.2	19.8	10.2	3.53	0.52	0.01	378	374
40	0.01	0.74	4.92	13.7	26.1	38.7	49.1	54.7	55.6	55.3	54.6	49.3	39.2	26.4	14.1	5.17	0.85	0.02	489	486
30	0.01	1.05	6.59	17.8	32.4	46.9	58.5	64.8	66.1	65.8	64.5	58.3	46.9	32.3	17.9	6.82	1.20	0.02	588	586
20	0.02	1.31	8.20	21.8	39.2	56.4	69.6	76.8	78.6	78.4	76.5	69.1	55.7	38.9	21.9	8.47	1.51	0.03	703	701
10	0.02	1.43	8.97	23.6	42.6	61.5	74.6	81.7	83.5	83.5	81.8	74.4	61.1	42.9	24.2	9.49	1.69	0.03	757	755
0	0.02	1.38	8.59	22.5	41.2	59.3	72.4	79.8	82.0	82.1	80.3	73.3	60.4	42.4	23.9	9.38	1.69	0.03	741	739
-10	0.01	1.17	7.27	19.1	35.2	51.1	63.3	70.2	72.5	72.8	71.4	64.9	52.7	36.9	21.0	8.20	1.51	0.03	649	647
-20	0.01	0.87	5.79	15.3	28.5	41.9	52.3	57.8	59.0	59.0	58.1	52.8	42.6	29.7	16.9	6.56	1.20	0.02	528	526
-30	0.01	0.57	4.27	12.1	23.1	35.2	44.9	50.1	51.0	51.0	50.5	45.8	36.4	24.6	13.3	4.92	0.84	0.01	449	446
-40	0.00	0.29	2.62	8.14	16.2	25.5	33.5	38.0	38.9	39.1	38.8	35.0	27.3	18.0	9.38	3.27	0.50	0.01	335	330
-50	0.00	0.13	1.38	4.64	9.51	15.2	20.4	23.4	24.0	24.2	24.1	21.7	16.7	10.8	5.50	1.84	0.26	0.01	204	196
-60	0.00	0.05	0.52	1.92	4.23	7.00	9.56	11.2	11.7	11.9	11.7	10.4	7.94	5.04	2.44	0.76	0.11	0.00	96.4	70.5
-70	0.00	0.01	0.06	0.36	1.08	2.01	2.89	3.57	3.92	4.04	3.90	3.35	2.51	1.50	0.63	0.14	0.03	0.00	30.0	0.00
-80	0.00	0.01	0.03	0.15	0.40	0.73	1.03	1.26	1.38	1.42	1.38	1.19	0.90	0.55	0.24	0.07	0.02	0.00	10.8	0.00
-90	0.00	0.01	0.03	0.15	0.40	0.73	1.03	1.26	1.38	1.42	1.38	1.19	0.90	0.55	0.24	0.07	0.02	0.00	10.8	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)	20	30	40	50	60	70	80	90			
F t	0.13	9.80	65.4	181	340	504	635	707	724	724	711	643	514	351	192	71.8	12.3	0.25	6386	---
F a	0.00	1.96	54.9	171	330	493	621	691	709	708	696	629	503	341	182	61.6	3.51	0.00	---	6197

one-half-peak spread: U:47.3,D:42.4 , L:40.2,R:42.1

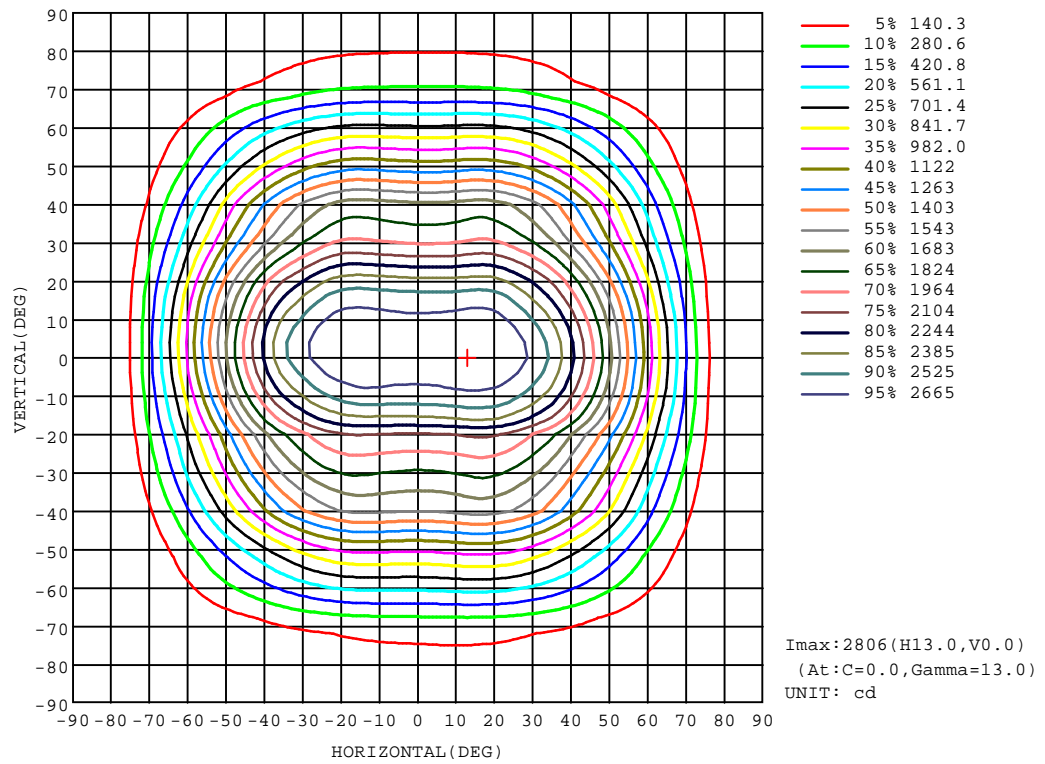
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.1V I:0.5813A P:127.4W PF:0.9957 Lamp Flux:9900x1 lm		
NAME: STN-SR01 120W	TYPE:	WEIGHT:
SPEC.:STN-SR01 120W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

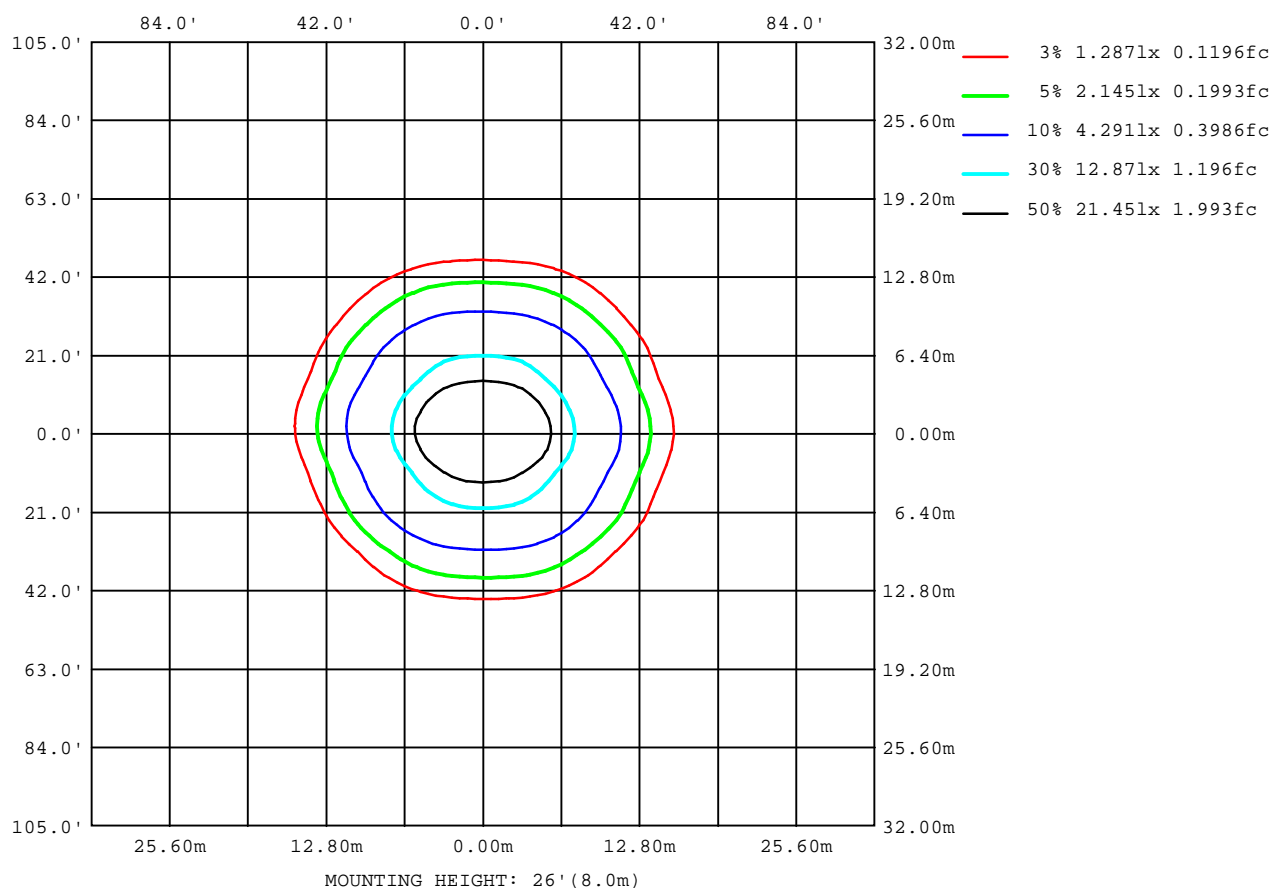


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity: 65.0%
Test Distance: 7.030m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.1V I:0.5813A P:127.4W PF:0.9957 Lamp Flux:9900x1 lm		
NAME: STN-SR01 120W	TYPE:	WEIGHT:
SPEC.:STN-SR01 120W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

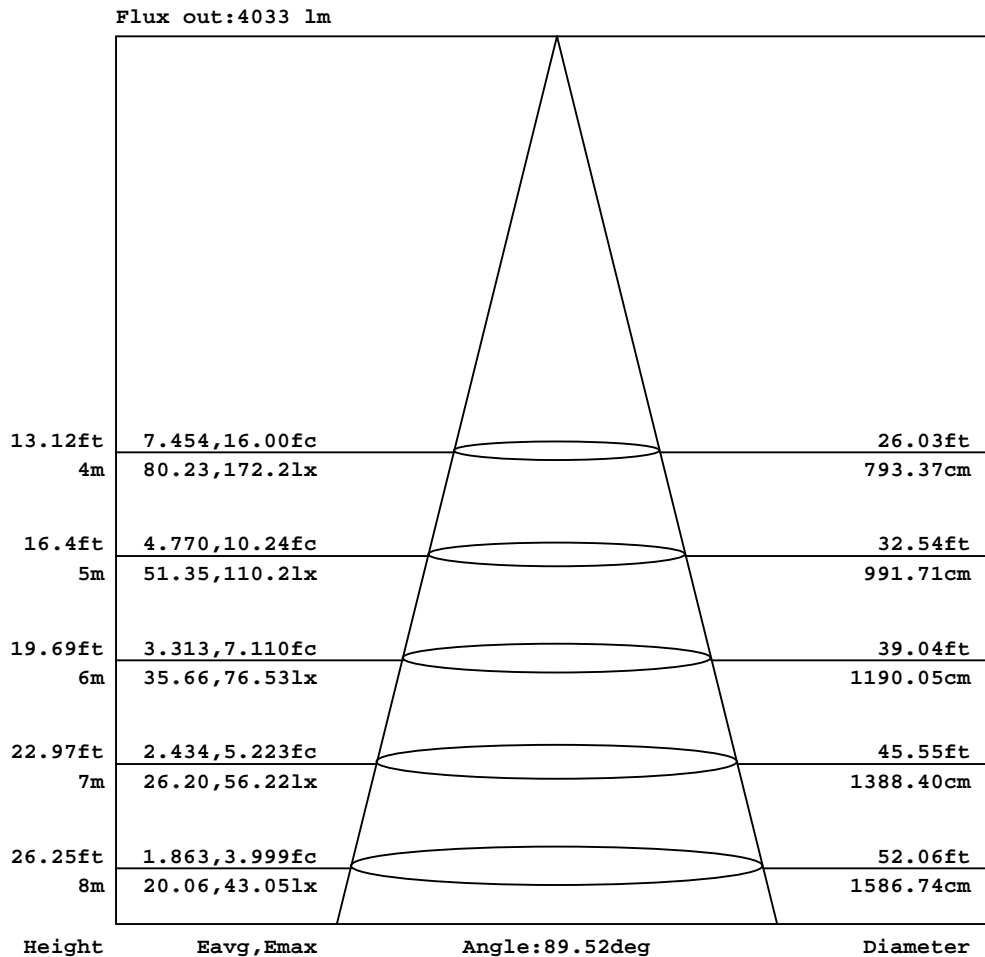


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.1V I:0.5813A P:127.4W PF:0.9957 Lamp Flux:9900x1 lm		
NAME: STN-SR01 120W	TYPE:	WEIGHT:
SPEC.:STN-SR01 120W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

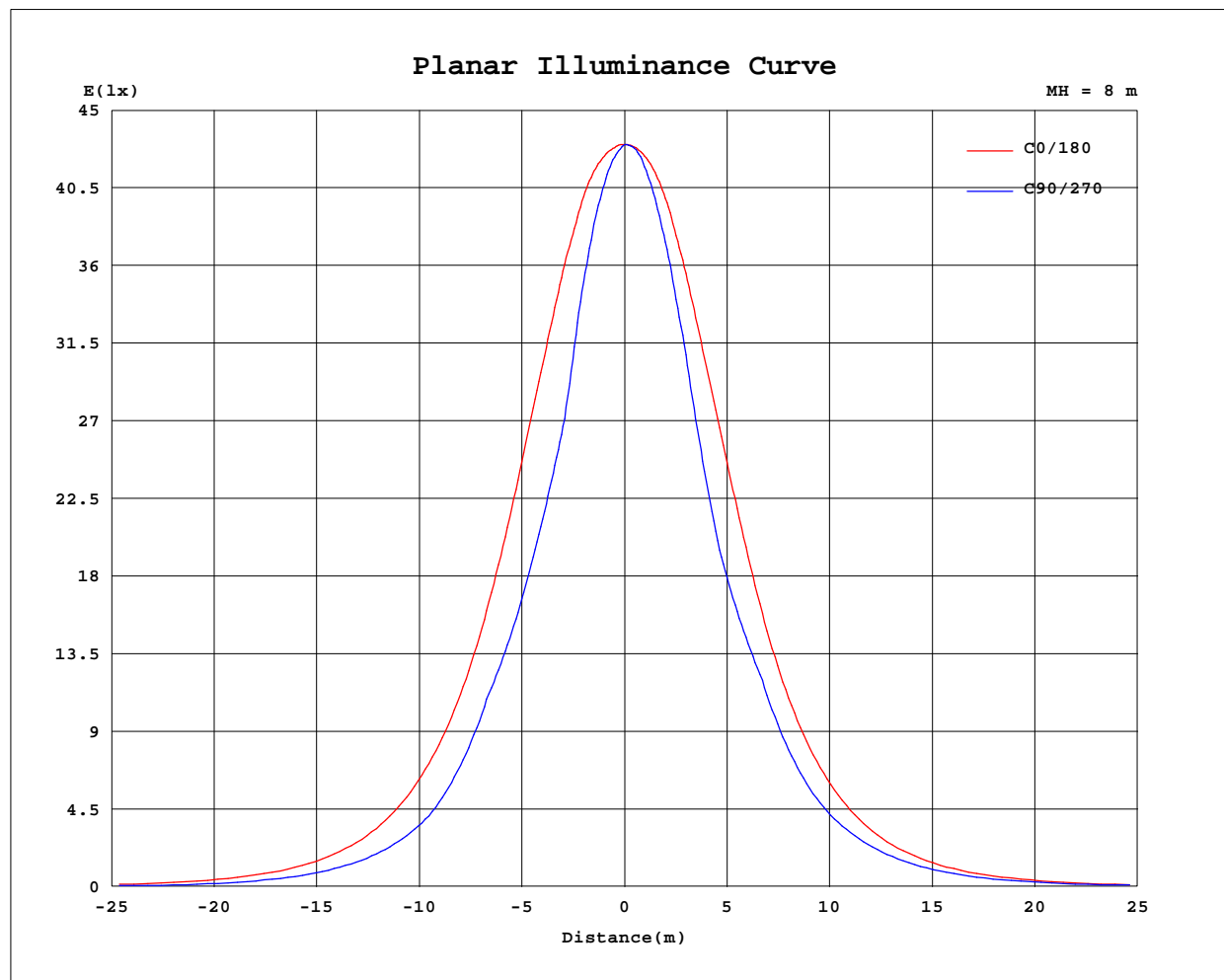


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
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:2013-03-12

V(B) Range:-90 - 90DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.5813A P:127.4W PF:0.9957 Lamp Flux:9900x1 lm		
NAME: STN-SR01 120W	TYPE:	WEIGHT:
SPEC.:STN-SR01 120W	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	0.49	0.99	0.97	0.96	1.01	1.02	1.06	1.04	1.01	0.96	0.90	0.81	0.72	0.63	0.57	0.53	0.51	0.49	0.48
-85	0.49	0.96	0.96	1.01	1.41	1.93	3.58	6.82	10.8	15.1	19.5	23.6	27.1	30.2	32.8	34.6	35.8	36.5	37.1
-80	0.48	0.92	0.95	1.09	2.00	3.28	7.36	15.5	25.5	36.3	47.4	57.9	66.6	74.5	81.1	85.7	88.8	90.6	92.0
-75	0.48	0.90	0.95	1.14	2.40	4.19	9.88	21.2	35.4	50.5	66.0	80.7	93.0	104	113	120	124	127	129
-70	0.47	0.86	0.94	1.22	3.00	5.55	13.7	29.9	50.1	71.7	93.9	115	133	148	162	171	177	181	183
-65	0.48	0.83	1.34	3.69	14.2	31.1	56.8	92.3	131	170	210	248	281	308	328	339	343	345	346
-60	0.48	0.78	1.95	7.40	30.9	69.4	122	186	253	318	384	447	503	546	577	591	593	590	590
-55	0.48	0.76	2.36	9.87	42.1	95.0	165	248	334	417	500	580	651	706	743	759	759	754	753
-50	0.48	0.71	2.97	13.6	58.8	133	230	342	456	565	674	780	873	944	992	1011	1009	1000	997
-45	0.48	0.70	4.11	22.6	85.0	182	301	436	575	712	847	973	1080	1160	1213	1237	1233	1222	1218
-40	0.48	0.68	5.82	36.1	124	254	407	578	754	933	1106	1264	1391	1482	1546	1574	1569	1555	1550
-35	0.49	0.66	7.40	50.2	156	305	479	660	851	1044	1225	1385	1510	1601	1660	1682	1672	1658	1651
-30	0.49	0.63	9.76	71.5	204	382	585	783	997	1212	1404	1567	1688	1779	1831	1843	1826	1811	1803
-25	0.48	0.61	11.6	83.2	233	423	639	852	1080	1305	1504	1666	1787	1882	1936	1950	1937	1924	1919
-20	0.48	0.58	14.4	101	276	484	720	954	1204	1446	1653	1815	1936	2037	2094	2111	2103	2093	2093
-15	0.48	0.61	17.7	115	310	536	794	1056	1335	1604	1833	2014	2154	2261	2328	2355	2356	2353	2357
-10	0.45	0.63	20.3	127	341	597	889	1195	1510	1802	2054	2254	2395	2508	2579	2613	2612	2603	2605
-5	0.46	0.71	23.0	137	365	642	947	1267	1593	1897	2162	2372	2506	2611	2676	2711	2707	2693	2689
0	0.43	0.71	23.9	140	379	672	996	1335	1675	1985	2260	2491	2625	2719	2773	2798	2787	2765	2755
5	0.44	0.81	25.2	145	385	679	1007	1353	1683	1992	2268	2495	2630	2725	2776	2797	2788	2766	2756
10	0.44	0.96	23.5	138	368	653	975	1311	1627	1921	2195	2411	2550	2656	2719	2734	2722	2704	2699
15	0.44	1.07	23.1	136	356	627	939	1264	1568	1840	2098	2299	2446	2567	2635	2649	2636	2624	2622
20	0.44	0.91	19.5	120	315	557	839	1139	1430	1686	1924	2108	2240	2363	2443	2460	2449	2437	2426
25	0.44	0.85	17.5	110	286	505	762	1034	1304	1542	1759	1934	2065	2178	2251	2264	2250	2236	2226
30	0.46	0.76	14.5	93.8	242	428	647	877	1116	1325	1513	1673	1802	1901	1964	1970	1951	1936	1924
35	0.45	0.67	12.3	79.3	209	381	579	796	1023	1230	1414	1576	1706	1804	1869	1882	1866	1850	1838
40	0.44	0.55	9.02	57.5	160	309	477	673	885	1087	1267	1430	1561	1657	1726	1750	1739	1721	1707
45	0.46	0.51	7.52	45.0	132	260	405	577	760	938	1098	1243	1363	1451	1511	1534	1523	1506	1494
50	0.48	0.47	5.27	26.2	91.9	186	297	431	572	714	846	963	1065	1142	1190	1211	1198	1183	1174
55	0.48	0.47	4.34	21.5	74.8	152	244	357	476	597	709	808	895	960	1002	1021	1012	1000	993
60	0.48	0.47	2.94	14.4	49.0	101	166	247	333	422	504	575	639	688	720	735	732	725	721
65	0.48	0.47	2.01	9.67	31.9	66.3	113	173	238	305	367	420	468	507	532	545	545	542	539
70	0.48	0.47	0.62	2.57	6.14	14.8	34.8	62.8	95.2	130	162	187	212	234	250	260	265	267	267
75	0.48	0.47	0.59	2.15	5.00	11.9	28.0	50.3	76.3	104	129	150	170	188	200	208	212	214	214
80	0.48	0.48	0.54	1.51	3.30	7.64	17.6	31.6	47.8	65.2	81.0	93.8	106	117	125	130	133	134	134
85	0.48	0.48	0.51	1.09	2.16	4.77	10.8	19.2	28.9	39.3	48.8	56.5	63.9	70.6	75.3	78.1	79.7	80.4	80.4
90	0.48	0.48	0.46	0.46	0.46	0.46	0.46	0.45	0.44	0.42	0.40	0.37	0.36	0.34	0.33	0.31	0.30	0.30	0.30

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-03-12

V(B) Range:-90 - 90DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:7.030m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.5813A P:127.4W PF:0.9957 Lamp Flux:9900x1 lm		
NAME: STN-SR01 120W	TYPE:	WEIGHT:
SPEC.:STN-SR01 120W	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	0.52	0.54	0.62	0.66	0.72	0.75	0.88	1.01	1.10	1.19	1.24	1.29	1.34	1.38	1.39	1.40	1.38	0.46	
-85	37.7	38.0	37.7	36.8	34.7	32.1	29.1	25.0	20.5	15.7	11.0	6.86	3.98	2.61	1.96	1.49	1.36	0.46	
-80	93.4	94.2	93.3	91.0	85.8	79.1	71.4	61.0	49.6	37.6	25.8	15.2	7.94	4.45	2.81	1.61	1.33	0.45	
-75	131	132	130	127	120	110	99.6	85.0	69.0	52.1	35.6	20.8	10.6	5.67	3.37	1.69	1.32	0.45	
-70	186	188	186	181	171	158	142	121	98.1	74.0	50.3	29.1	14.5	7.51	4.22	1.82	1.29	0.45	
-65	350	355	356	351	336	313	284	247	206	164	120	79.4	47.4	24.9	10.0	2.97	1.29	0.45	
-60	596	606	611	606	585	547	496	435	368	298	225	155	96.6	51.0	18.8	4.70	1.29	0.45	
-55	760	773	781	775	750	702	638	561	477	388	296	205	129	68.3	24.6	5.85	1.29	0.46	
-50	1006	1024	1036	1030	998	936	850	750	639	522	401	280	179	94.4	33.3	7.58	1.29	0.46	
-45	1226	1244	1261	1253	1214	1144	1044	924	793	652	504	357	231	126	48.2	9.88	1.41	0.46	
-40	1556	1576	1599	1587	1537	1456	1334	1185	1024	847	658	471	308	173	70.6	13.3	1.58	0.47	
-35	1657	1676	1701	1690	1639	1557	1438	1284	1117	936	735	537	355	205	85.2	16.3	1.67	0.48	
-30	1809	1827	1855	1846	1793	1708	1594	1432	1256	1068	850	636	426	252	107	20.8	1.79	0.49	
-25	1925	1939	1963	1954	1900	1810	1697	1535	1356	1162	936	705	477	286	123	25.4	1.91	0.49	
-20	2098	2108	2125	2117	2060	1962	1852	1691	1505	1301	1066	810	553	338	147	32.2	2.09	0.49	
-15	2365	2381	2402	2388	2325	2216	2086	1900	1682	1436	1172	892	600	363	156	34.8	2.08	0.50	
-10	2613	2628	2640	2621	2566	2467	2326	2124	1876	1600	1305	986	677	404	177	40.3	2.20	0.48	
-5	2694	2714	2724	2707	2651	2556	2418	2212	1955	1666	1349	1021	702	413	177	40.6	2.09	0.48	
0	2764	2791	2800	2785	2730	2635	2494	2283	2022	1726	1398	1060	728	428	186	41.8	2.15	0.48	
5	2764	2787	2798	2780	2718	2618	2475	2266	2004	1706	1377	1047	717	421	178	39.7	2.14	0.48	
10	2704	2720	2735	2713	2640	2530	2383	2177	1923	1644	1339	1014	691	409	175	38.5	2.74	0.48	
15	2620	2627	2647	2629	2548	2422	2270	2070	1834	1567	1269	955	643	382	161	34.7	2.52	0.48	
20	2424	2425	2440	2427	2346	2230	2090	1898	1675	1420	1138	853	574	344	145	30.8	2.38	0.48	
25	2225	2231	2251	2240	2168	2064	1931	1748	1538	1303	1040	777	522	310	130	26.6	2.03	0.48	
30	1927	1939	1969	1959	1902	1814	1693	1522	1333	1127	892	663	443	258	107	20.2	1.51	0.47	
35	1839	1852	1879	1867	1809	1721	1597	1429	1243	1041	817	600	397	227	93.3	17.5	1.28	0.47	
40	1707	1720	1744	1728	1670	1581	1453	1289	1109	912	705	505	329	181	72.3	13.4	0.94	0.47	
45	1494	1507	1527	1513	1462	1379	1262	1117	956	784	603	429	277	149	57.0	11.1	0.79	0.46	
50	1173	1188	1203	1191	1150	1076	976	858	727	592	451	315	201	103	34.1	7.65	0.57	0.44	
55	992	1004	1015	1004	968	905	819	719	607	493	373	260	164	83.4	27.9	6.30	0.54	0.44	
60	720	728	733	723	695	648	585	510	428	344	257	176	109	54.6	18.7	4.27	0.50	0.44	
65	539	544	545	536	514	477	429	371	309	245	179	121	72.2	35.4	12.6	2.92	0.48	0.45	
70	267	268	263	255	241	220	194	163	130	96.6	62.9	37.3	17.2	6.64	3.42	0.89	0.44	0.45	
75	214	214	211	204	193	176	155	130	104	77.3	50.4	29.9	13.9	5.39	2.81	0.79	0.43	0.45	
80	134	134	132	128	121	110	97.3	81.4	65.0	48.5	31.6	18.9	8.81	3.51	1.90	0.65	0.43	0.44	
85	80.4	80.5	79.2	76.7	72.5	66.1	58.5	49.0	39.2	29.2	19.1	11.5	5.44	2.26	1.30	0.55	0.43	0.44	
90	0.30	0.33	0.33	0.32	0.32	0.33	0.34	0.34	0.35	0.39	0.39	0.39	0.39	0.39	0.39	0.40	0.42	0.44	

H(h) Range:-90 - 90DEG
 H(h) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-03-12

V(B) Range:-90 - 90DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:7.030m [K=1.0000]
 Remarks: