
STN-SR04 100W



Light Output Ratio:	63.4%
Luminaire Power:	97.65 W
90% Beam Spread	33.7V x 69.9H
50% Beam Lumens	450.2 lumens per klm.

H(θ) Range:-90 - 90DEG
H(θ) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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.

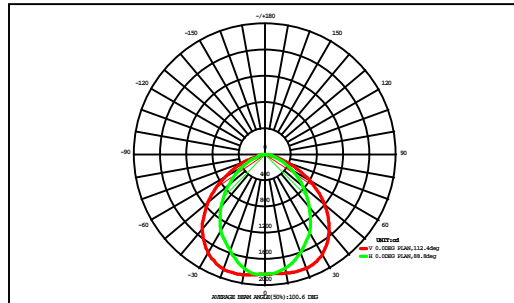
Maximum Intensity		268.1 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	140.0V x 148.6H
	At 50% of Imax	88.8V x 112.4H
	At 90% of Imax	33.7V x 69.9H
Beam Flux	Total	634.1 lumens per klm.
	To 10% of Imax	616.0 lumens per klm.
	To 50% of Imax	450.2 lumens per klm.
	To 90% of Imax	132.8 lumens per klm.
	Upward LOR	0.0 %
	Downward LOR	63.4 %
Luminaire Efficiency(Light Output Ratio)		63.4 %

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:220.6V I:0.4457A P:97.65W PF:0.9932 Lamp Flux:7000x1 lm		
NAME: STN-SR04 100W	TYPE:	WEIGHT:
SPEC.:STN-SR04 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:45.46lm/W	
MODEL	STN-SR04 100W	I _{max} (cd)	1877
NOMINAL POWER(W)	100	AVAILABILITY(%)	61.6
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	4315
NOMINAL FLUX(lm)	7000	LOR(%)	63.4
LAMPS INSIDE	1	TOTAL FLUX(lm)	4440
TEST VOLTAGE(V)	220.4	q @50%(H,V)	112,89DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.01	0.07	0.28	0.59	0.90	1.18	1.36	1.45	1.44	1.35	1.16	0.88	0.56	0.25	0.06	0.01	0.00	11.6	0.00
90	0.00	0.01	0.07	0.28	0.59	0.90	1.18	1.36	1.45	1.44	1.35	1.16	0.88	0.56	0.25	0.06	0.01	0.00	11.6	0.00
80	0.00	0.03	0.21	0.87	1.85	2.81	3.67	4.25	4.52	4.49	4.20	3.62	2.73	1.73	0.77	0.18	0.02	0.00	35.9	1.62
70	0.00	0.11	0.79	2.37	4.55	6.83	8.72	9.79	10.2	10.1	9.65	8.60	6.77	4.53	2.31	0.76	0.10	0.00	86.2	75.9
60	0.00	0.26	1.87	4.92	8.93	13.3	16.7	18.4	18.9	18.8	18.1	16.5	13.3	9.18	5.02	1.86	0.25	0.00	166	163
50	0.01	0.48	3.00	7.52	13.4	19.6	24.4	26.9	27.6	27.4	26.5	24.3	19.8	14.0	7.93	3.11	0.49	0.01	247	245
40	0.01	0.79	4.21	10.2	18.0	25.9	32.1	35.8	36.8	36.6	35.3	32.1	26.2	18.6	10.8	4.41	0.81	0.01	328	327
30	0.01	1.06	5.36	12.5	21.9	31.5	39.2	43.8	45.2	44.9	43.2	39.2	31.9	22.6	13.2	5.65	1.13	0.02	402	401
20	0.02	1.27	6.37	14.7	25.4	36.5	45.2	50.1	51.5	51.2	49.6	45.2	37.0	26.3	15.5	6.81	1.42	0.02	464	463
10	0.02	1.37	6.93	16.2	27.9	39.9	49.2	54.3	55.3	55.0	53.6	49.4	40.5	28.9	17.0	7.41	1.55	0.02	504	504
0	0.02	1.36	6.97	16.2	28.1	40.2	49.5	54.6	55.6	55.3	54.1	49.7	40.7	29.1	17.0	7.32	1.50	0.02	507	507
-10	0.01	1.22	6.34	14.6	25.3	36.4	44.9	49.8	51.2	51.0	49.4	45.1	36.9	26.3	15.4	6.65	1.32	0.02	462	461
-20	0.01	0.96	5.23	12.3	21.6	31.2	38.6	42.9	44.3	44.2	42.7	38.6	31.4	22.1	12.8	5.41	1.04	0.01	395	394
-30	0.01	0.68	4.08	10.0	17.8	25.8	31.8	35.4	36.6	36.6	35.3	31.9	25.9	18.0	10.2	4.08	0.72	0.01	325	324
-40	0.00	0.38	2.75	7.27	13.1	19.2	23.8	26.2	27.0	27.1	26.3	24.0	19.5	13.5	7.44	2.82	0.43	0.01	241	239
-50	0.00	0.19	1.53	4.42	8.27	12.3	15.4	17.0	17.5	17.6	17.0	15.6	12.6	8.53	4.54	1.61	0.21	0.00	154	151
-60	0.00	0.08	0.62	1.93	3.87	5.92	7.55	8.47	8.81	8.83	8.48	7.60	5.99	3.94	1.96	0.64	0.09	0.00	74.8	60.3
-70	0.00	0.02	0.11	0.47	1.18	1.94	2.58	3.01	3.21	3.21	3.01	2.58	1.91	1.16	0.45	0.10	0.02	0.00	25.0	0.00
-80	0.00	0.01	0.05	0.18	0.43	0.69	0.91	1.06	1.12	1.12	1.06	0.91	0.68	0.42	0.18	0.05	0.01	0.00	8.88	0.00
-90	0.00	0.01	0.05	0.18	0.43	0.69	0.91	1.06	1.12	1.12	1.06	0.91	0.68	0.42	0.18	0.05	0.01	0.00	8.88	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
F t	0.12	10.3	56.5	137	242	351	436	483	497	495	479	436	355	249	143	58.9	11.1	0.17	4440	---
F a	0.00	4.53	50.6	131	236	343	426	473	487	485	469	426	347	243	137	53.1	5.38	0.00	---	4315

one-half-peak spread: U:40.5,D:48.9 , L:38.1,R:37.4

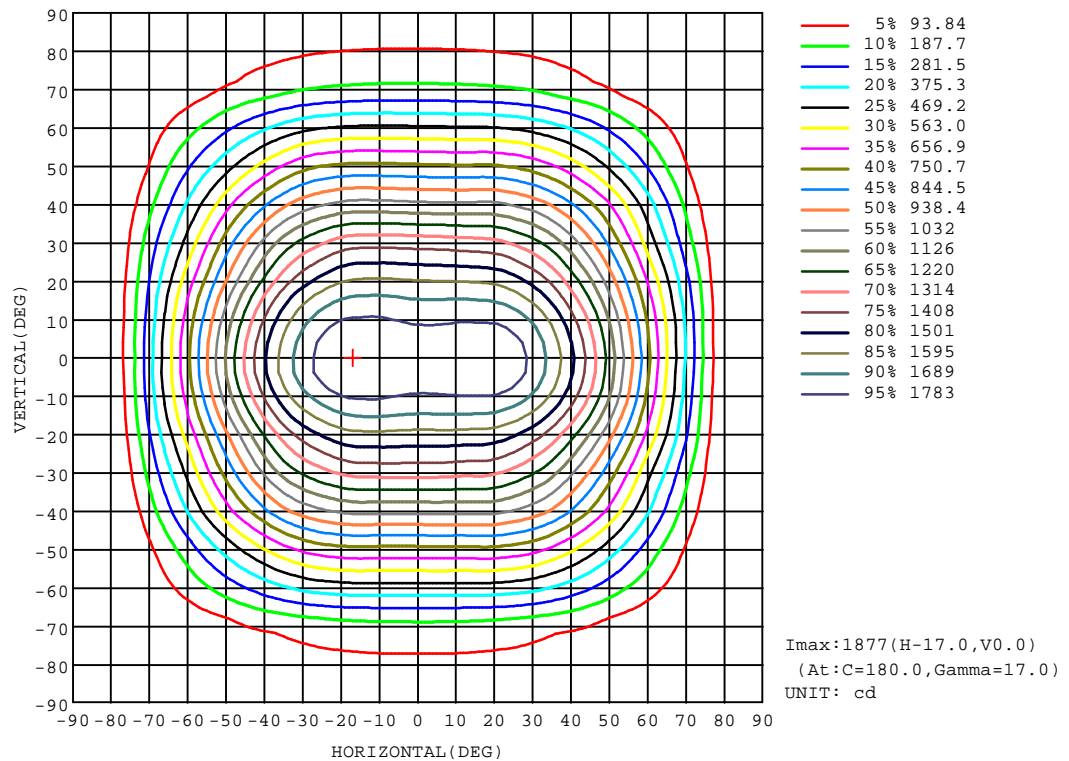
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:220.6V I:0.4457A P:97.65W PF:0.9932 Lamp Flux:7000x1 lm		
NAME: STN-SR04 100W	TYPE:	WEIGHT:
SPEC.:STN-SR04 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

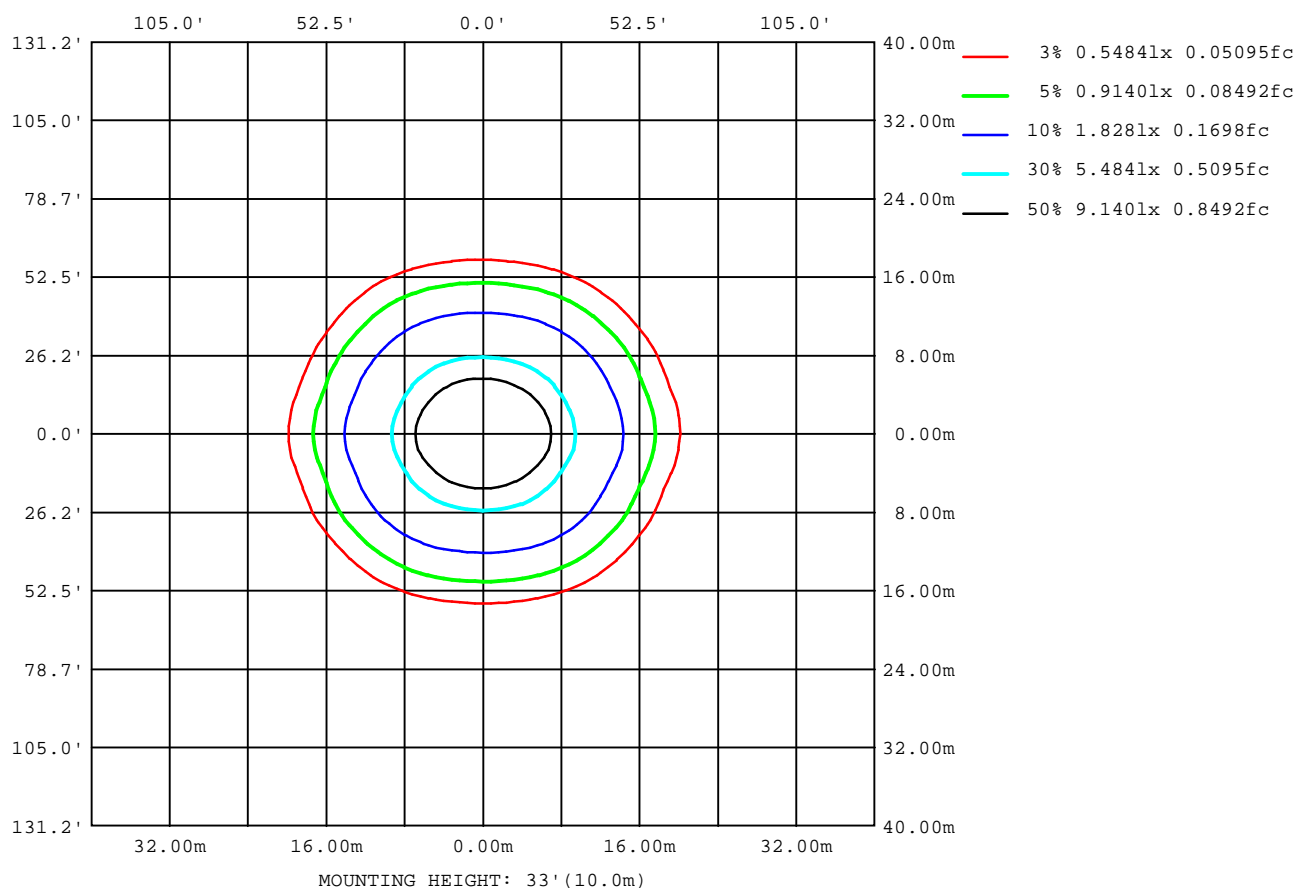


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:220.6V I:0.4457A P:97.65W PF:0.9932 Lamp Flux:7000x1 lm		
NAME: STN-SR04 100W	TYPE:	WEIGHT:
SPEC.:STN-SR04 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

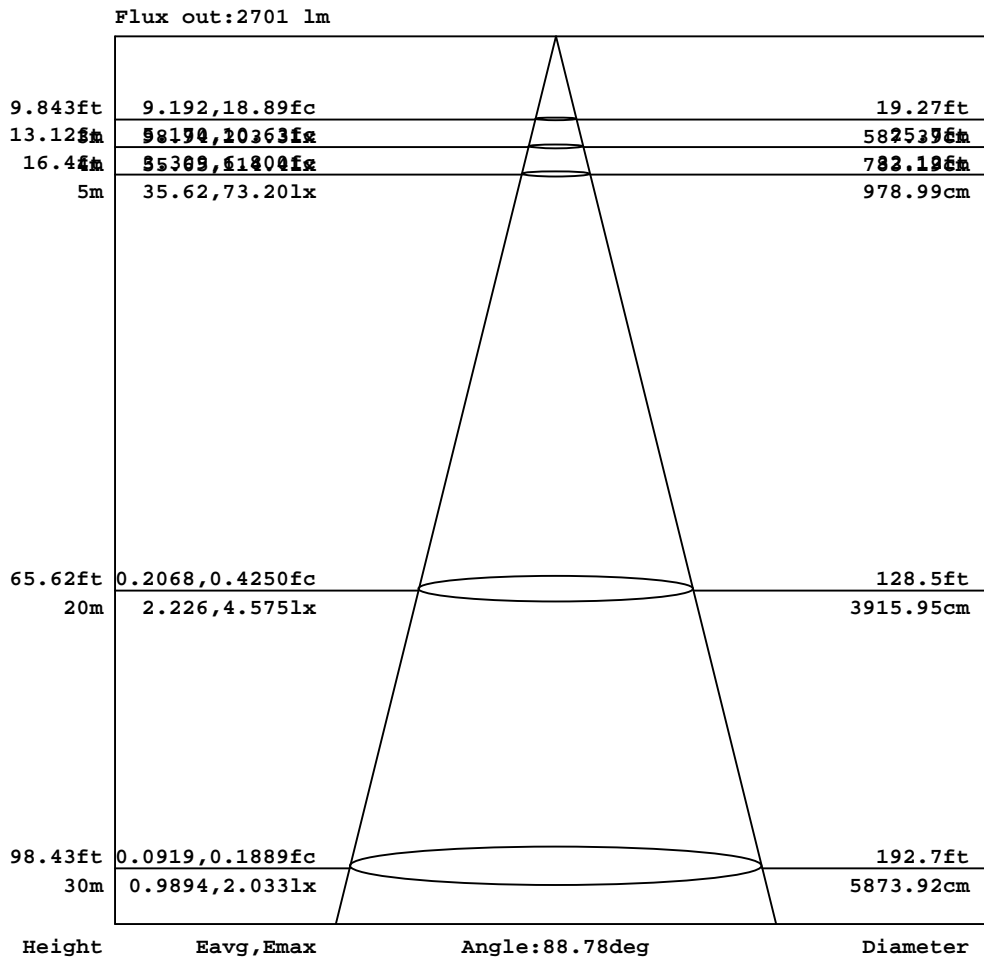


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:220.6V I:0.4457A P:97.65W PF:0.9932 Lamp Flux:7000x1 lm		
NAME: STN-SR04 100W	TYPE:	WEIGHT:
SPEC.:STN-SR04 100W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

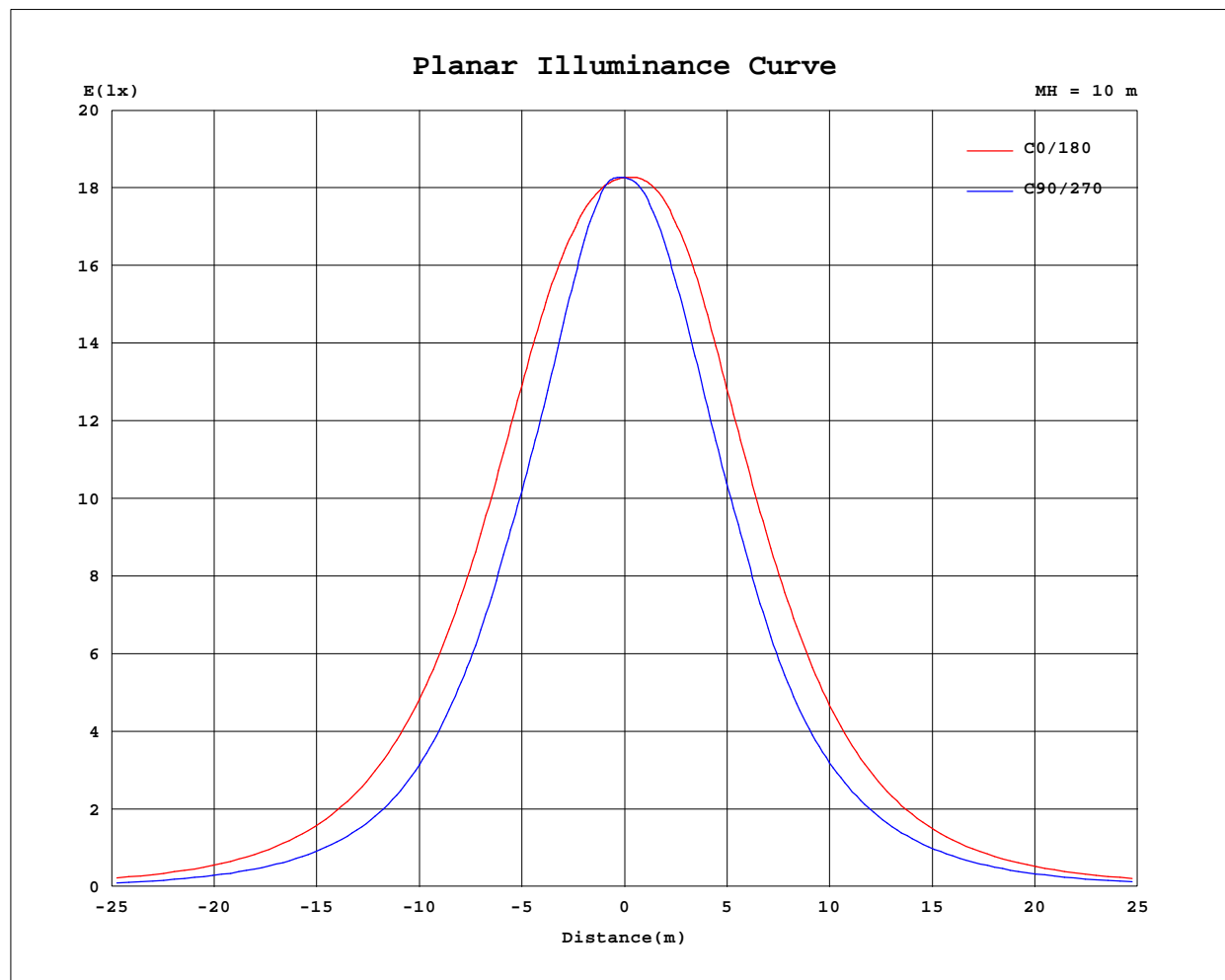


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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(b) Range:-90 - 90DEG
 H(b) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2013-10-15

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:220.6V I:0.4457A P:97.65W PF:0.9932 Lamp Flux:7000x1 lm		
NAME: STN-SR04 100W	TYPE:	WEIGHT:
SPEC.:STN-SR04 100W	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	0.30	0.58	0.59	0.63	0.63	0.67	0.67	0.67	0.67	0.68	0.64	0.57	0.51	0.48	0.44	0.41	0.40	0.38	0.38
-85	0.30	0.58	0.66	1.10	1.65	2.68	5.01	8.19	11.8	16.0	19.5	22.2	24.6	26.5	27.9	28.9	29.5	29.7	29.8
-80	0.30	0.57	0.77	1.80	3.17	5.70	11.5	19.5	28.5	38.9	47.8	54.7	60.8	65.6	69.1	71.6	73.2	73.7	74.0
-75	0.30	0.56	0.84	2.26	4.18	7.72	15.9	27.0	39.6	54.2	66.6	76.3	84.9	91.7	96.6	100	102	103	103
-70	0.30	0.55	0.94	2.96	5.71	10.7	22.4	38.3	56.3	77.1	94.9	109	121	131	138	143	146	147	148
-65	0.30	0.55	1.45	6.65	19.7	38.4	64.8	95.3	126	159	188	212	232	246	255	260	261	262	263
-60	0.30	0.54	2.22	12.2	40.7	80.0	128	181	232	282	327	367	398	419	430	435	434	435	436
-55	0.30	0.53	2.73	15.9	54.7	108	171	238	302	364	420	470	508	534	547	552	550	550	551
-50	0.29	0.53	3.50	21.4	75.7	149	235	323	407	486	560	624	674	706	722	728	723	722	723
-45	0.29	0.69	4.26	33.2	104	195	293	394	492	583	668	741	797	832	852	861	857	856	857
-40	0.29	0.92	5.39	50.9	146	262	381	501	619	728	829	917	981	1021	1048	1060	1058	1058	1057
-35	0.29	0.97	7.02	65.0	173	300	426	556	685	806	918	1014	1083	1128	1161	1176	1176	1177	1176
-30	0.30	1.05	9.46	86.1	214	356	493	639	784	922	1051	1160	1237	1289	1331	1350	1353	1355	1354
-25	0.30	1.02	12.1	97.7	238	391	535	688	839	985	1122	1237	1321	1377	1422	1440	1442	1442	1439
-20	0.29	0.96	16.0	115	275	443	597	760	923	1080	1228	1353	1447	1510	1558	1575	1577	1572	1568
-15	0.29	0.95	20.7	129	301	480	644	818	991	1158	1314	1445	1542	1608	1656	1674	1677	1668	1662
-10	0.29	0.89	25.4	136	325	516	693	884	1076	1255	1419	1560	1665	1738	1789	1803	1803	1789	1781
-5	0.29	0.87	29.4	144	338	533	721	919	1117	1304	1473	1614	1720	1796	1847	1858	1855	1837	1826
0	0.29	0.80	29.4	145	335	534	731	935	1136	1324	1493	1630	1737	1814	1867	1875	1866	1844	1828
5	0.29	0.84	30.5	148	335	533	727	928	1122	1305	1474	1614	1722	1800	1850	1860	1854	1835	1821
10	0.25	1.17	26.7	141	319	510	694	885	1074	1250	1416	1552	1660	1736	1783	1795	1795	1782	1771
15	0.28	1.49	26.0	140	310	493	670	847	1028	1196	1354	1488	1594	1666	1714	1728	1730	1720	1711
20	0.28	1.55	21.2	127	281	449	613	771	938	1094	1238	1364	1463	1535	1586	1607	1611	1605	1598
25	0.28	1.56	19.1	117	261	415	569	721	881	1030	1167	1285	1377	1444	1495	1515	1518	1514	1507
30	0.29	1.58	16.0	103	231	365	503	646	795	933	1059	1167	1248	1309	1358	1377	1378	1377	1372
35	0.29	1.43	12.8	88.6	203	328	457	589	726	853	968	1067	1142	1195	1236	1252	1252	1249	1243
40	0.29	1.20	8.00	66.2	162	273	387	503	623	732	831	917	983	1024	1053	1064	1062	1057	1050
45	0.30	0.92	6.84	52.6	136	236	340	442	546	645	735	815	877	914	938	947	945	941	935
50	0.31	0.50	5.12	32.3	95.7	182	268	350	432	513	591	661	718	750	766	772	770	766	763
55	0.32	0.45	4.40	26.6	78.0	149	223	293	364	434	500	559	607	636	650	656	655	653	650
60	0.33	0.38	3.32	18.1	51.5	101	154	208	262	314	362	406	442	464	476	482	483	483	481
65	0.33	0.34	2.61	12.4	33.8	67.9	108	151	193	234	271	303	331	350	360	367	369	369	368
70	0.34	0.27	1.53	3.88	7.25	19.1	40.0	65.0	90.9	115	133	150	165	178	187	193	197	199	199
75	0.34	0.28	1.29	3.17	5.86	15.3	32.0	52.0	72.7	91.8	107	120	132	142	149	154	158	159	159
80	0.34	0.31	0.93	2.10	3.78	9.70	20.1	32.6	45.6	57.5	66.9	75.2	82.8	89.1	93.5	96.6	98.8	99.5	99.5
85	0.34	0.32	0.69	1.39	2.40	5.94	12.2	19.7	27.5	34.6	40.2	45.2	49.8	53.5	56.2	58.0	59.4	59.8	59.8
90	0.34	0.34	0.33	0.32	0.32	0.30	0.30	0.30	0.29	0.28	0.27	0.26	0.25	0.23	0.22	0.21	0.21	0.20	0.20

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:220.6V I:0.4457A P:97.65W PF:0.9932 Lamp Flux:7000x1 lm		
NAME: STN-SR04 100W	TYPE:	WEIGHT:
SPEC.:STN-SR04 100W	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	0.38	0.40	0.44	0.48	0.52	0.58	0.67	0.77	0.85	0.91	0.95	0.97	1.01	1.05	1.11	1.11	1.14	0.34	
-85	29.7	29.5	28.9	27.9	26.6	24.6	22.0	19.5	15.8	11.9	8.07	4.77	2.95	1.99	1.52	1.12	1.12	0.34	
-80	73.8	73.1	71.6	69.0	65.8	60.5	54.1	47.6	38.3	28.3	18.7	10.5	5.87	3.41	2.13	1.13	1.10	0.34	
-75	103	102	100	96.4	91.9	84.5	75.4	66.3	53.3	39.3	25.9	14.3	7.82	4.35	2.54	1.14	1.08	0.34	
-70	147	146	143	138	131	120	107	94.4	75.8	55.7	36.5	20.0	10.7	5.76	3.15	1.15	1.05	0.34	
-65	263	262	260	255	247	234	214	191	161	128	95.5	64.7	40.0	21.2	7.41	1.73	1.01	0.35	
-60	436	435	435	432	422	404	374	336	290	238	184	132	83.8	44.4	13.8	2.60	0.95	0.36	
-55	552	551	552	550	538	517	480	432	375	310	243	176	113	59.9	18.1	3.18	0.92	0.36	
-50	726	725	727	727	712	687	640	577	504	419	331	243	157	83.1	24.5	4.05	0.86	0.37	
-45	859	858	861	859	839	808	756	684	600	506	403	301	200	110	38.1	5.16	0.84	0.38	
-40	1060	1059	1062	1057	1029	989	929	845	746	636	510	387	265	151	58.5	6.83	0.80	0.39	
-35	1177	1173	1174	1166	1133	1086	1019	927	819	700	567	430	302	176	72.5	8.84	0.83	0.40	
-30	1353	1346	1343	1330	1289	1232	1154	1050	929	795	653	494	358	214	93.5	11.8	0.88	0.41	
-25	1439	1434	1430	1419	1380	1320	1240	1131	1006	865	714	551	402	246	108	16.2	0.98	0.41	
-20	1568	1568	1562	1553	1515	1452	1369	1253	1121	970	805	637	468	294	131	22.8	1.14	0.42	
-15	1663	1664	1660	1652	1615	1552	1462	1341	1203	1042	863	678	499	314	138	25.4	1.09	0.40	
-10	1783	1788	1790	1787	1752	1687	1588	1460	1311	1138	943	737	539	347	153	31.4	1.22	0.43	
-5	1829	1837	1843	1842	1806	1737	1634	1501	1347	1166	965	755	550	355	156	32.1	1.15	0.39	
0	1831	1842	1851	1853	1824	1758	1657	1525	1368	1186	986	780	567	374	170	35.2	1.31	0.39	
5	1821	1830	1835	1835	1806	1742	1639	1504	1348	1167	970	766	563	370	166	33.4	1.59	0.39	
10	1770	1778	1777	1773	1742	1679	1578	1448	1298	1125	937	742	553	363	168	33.3	2.32	0.39	
15	1710	1713	1711	1702	1666	1601	1505	1379	1236	1071	892	707	526	342	156	30.3	2.14	0.38	
20	1595	1592	1586	1577	1538	1475	1391	1272	1139	989	823	651	483	310	144	27.4	2.09	0.39	
25	1504	1499	1493	1483	1445	1386	1305	1193	1067	924	767	601	442	279	128	23.0	1.83	0.39	
30	1367	1359	1353	1342	1306	1253	1177	1076	959	826	682	526	379	232	104	16.3	1.43	0.39	
35	1240	1234	1231	1224	1193	1146	1078	987	881	761	626	482	343	207	90.0	13.5	1.22	0.39	
40	1048	1046	1048	1048	1023	986	929	853	765	662	541	416	290	169	68.4	9.27	0.91	0.39	
45	933	930	933	931	909	876	823	754	672	577	469	358	246	140	53.0	7.59	0.72	0.39	
50	760	756	759	756	740	710	665	606	533	448	361	271	181	96.1	29.8	5.07	0.42	0.39	
55	647	644	645	642	627	600	561	510	448	375	300	224	148	78.2	24.6	4.23	0.39	0.39	
60	479	476	475	470	458	436	406	366	320	265	209	153	98.2	51.4	16.8	2.98	0.35	0.39	
65	366	363	361	356	345	327	302	271	235	192	148	106	65.3	33.5	11.6	2.14	0.33	0.38	
70	197	195	191	184	175	163	146	127	107	82.5	57.3	34.7	15.8	6.64	3.81	0.89	0.29	0.38	
75	158	156	153	147	140	131	117	102	85.9	66.0	45.9	27.9	12.7	5.38	3.12	0.78	0.31	0.38	
80	98.8	97.6	95.4	92.1	87.8	81.7	73.2	63.7	53.8	41.4	28.8	17.5	8.05	3.48	2.07	0.61	0.33	0.39	
85	59.4	58.6	57.3	55.3	52.8	49.1	44.0	38.3	32.4	24.9	17.4	10.6	4.95	2.22	1.38	0.50	0.35	0.39	
90	0.20	0.20	0.20	0.20	0.25	0.25	0.25	0.25	0.29	0.29	0.29	0.29	0.31	0.33	0.34	0.34	0.38	0.39	

H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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: