

STN-SR04 80W



Light Output Ratio:	63.7%
Luminaire Power:	85.73 W
90% Beam Spread	33.3V x 70.0H
50% Beam Lumens	453.4 lumens per klm.

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:

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	272.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	137.5V x 148.2H
	At 50% of Imax	87.3V x 112.1H
	At 90% of Imax	33.3V x 70.0H

Beam Flux	Total	637.2 lumens per klm.
	To 10% of Imax	619.3 lumens per klm.
	To 50% of Imax	453.4 lumens per klm.
	To 90% of Imax	137.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	63.7 %

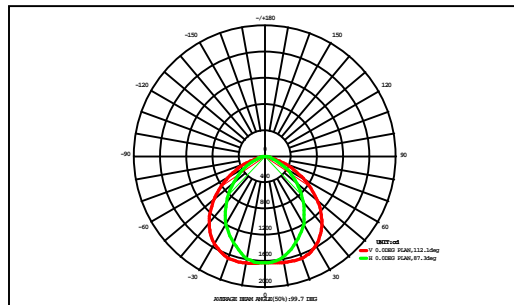
Luminaire Efficiency(Light Output Ratio)	63.7 %
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H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:0.3922A P:85.73W PF:0.9909 Lamp Flux:6100x1 lm		
NAME: STN-SR04 80W	TYPE:	WEIGHT:
SPEC.:STN-SR04 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:45.34lm/W	
MODEL	STN-SR04 80W	Imax(cd)	1662
NOMINAL POWER(W)	80	AVAILABILITY(%)	61.9
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	3778
NOMINAL FLUX(lm)	6100	LOR(%)	63.7
LAMPS INSIDE	1	TOTAL FLUX(lm)	3887
TEST VOLTAGE(V)	220.4	q @50%(H,V)	112,87DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.01	0.05	0.20	0.44	0.66	0.86	0.98	1.03	1.02	0.94	0.81	0.61	0.38	0.17	0.04	0.01	0.00	8.21	0.00
90	0.00	0.01	0.05	0.20	0.44	0.66	0.86	0.98	1.03	1.02	0.94	0.81	0.61	0.38	0.17	0.04	0.01	0.00	8.21	0.00
80	0.00	0.02	0.15	0.62	1.35	2.05	2.66	3.06	3.22	3.17	2.94	2.51	1.90	1.19	0.51	0.12	0.02	0.00	25.5	0.00
70	0.00	0.09	0.64	1.92	3.68	5.49	6.96	7.74	7.99	7.87	7.49	6.66	5.26	3.50	1.77	0.58	0.08	0.00	67.7	54.4
60	0.00	0.22	1.58	4.20	7.61	11.2	14.1	15.4	15.7	15.5	15.0	13.6	11.0	7.52	4.07	1.48	0.18	0.00	138	135
50	0.01	0.42	2.60	6.55	11.6	17.0	21.2	23.1	23.6	23.4	22.7	20.7	16.9	11.8	6.62	2.53	0.37	0.01	211	209
40	0.01	0.71	3.73	8.96	15.7	22.7	28.1	31.1	32.0	31.8	30.7	27.9	22.7	16.0	9.13	3.63	0.63	0.01	286	284
30	0.01	0.97	4.83	11.2	19.3	27.7	34.4	38.2	39.4	39.2	37.7	34.1	27.7	19.5	11.2	4.65	0.88	0.01	351	350
20	0.02	1.17	5.81	13.2	22.7	32.5	40.0	44.2	45.4	45.0	43.6	39.8	32.4	22.9	13.3	5.66	1.10	0.01	409	408
10	0.02	1.27	6.31	14.6	25.1	35.7	43.8	48.1	49.1	48.9	47.8	43.9	35.9	25.5	14.8	6.32	1.23	0.02	448	447
0	0.02	1.26	6.27	14.4	25.0	35.7	43.8	48.3	49.3	49.3	48.3	44.4	36.3	25.9	15.0	6.36	1.21	0.02	451	450
-10	0.01	1.13	5.70	13.0	22.5	32.3	39.8	44.2	45.6	45.7	44.4	40.6	33.2	23.7	13.7	5.83	1.06	0.01	413	412
-20	0.01	0.90	4.74	11.0	19.2	27.7	34.2	38.1	39.5	39.6	38.3	34.7	28.2	19.9	11.5	4.78	0.85	0.01	353	352
-30	0.01	0.63	3.69	8.87	15.7	22.7	28.0	31.1	32.3	32.4	31.4	28.5	23.1	16.2	9.11	3.57	0.60	0.01	288	286
-40	0.00	0.35	2.47	6.39	11.4	16.6	20.6	22.8	23.5	23.7	23.1	21.1	17.1	11.8	6.52	2.40	0.35	0.01	210	208
-50	0.00	0.17	1.38	3.88	7.15	10.6	13.3	14.7	15.2	15.3	14.9	13.7	10.9	7.35	3.92	1.35	0.17	0.00	134	131
-60	0.00	0.07	0.56	1.69	3.35	5.12	6.51	7.32	7.64	7.69	7.42	6.67	5.21	3.42	1.69	0.54	0.07	0.00	65.0	50.6
-70	0.00	0.02	0.09	0.40	1.02	1.69	2.23	2.61	2.78	2.79	2.62	2.26	1.68	1.02	0.40	0.08	0.02	0.00	21.7	0.00
-80	0.00	0.01	0.04	0.15	0.37	0.60	0.79	0.91	0.97	0.97	0.92	0.80	0.60	0.37	0.15	0.04	0.01	0.00	7.71	0.00
-90	0.00	0.01	0.04	0.15	0.37	0.60	0.79	0.91	0.97	0.97	0.92	0.80	0.60	0.37	0.15	0.04	0.01	0.00	7.71	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
F t	0.13	9.42	50.6	121	213	308	381	422	434	433	420	383	311	218	124	50.0	8.83	0.13	3887	---
F a	0.00	4.39	45.5	116	207	301	373	413	425	423	411	375	304	212	119	44.7	3.90	0.00	---	3778

one-half-peak spread: U:40.0,D:47.9 , L:38.4,R:37.1

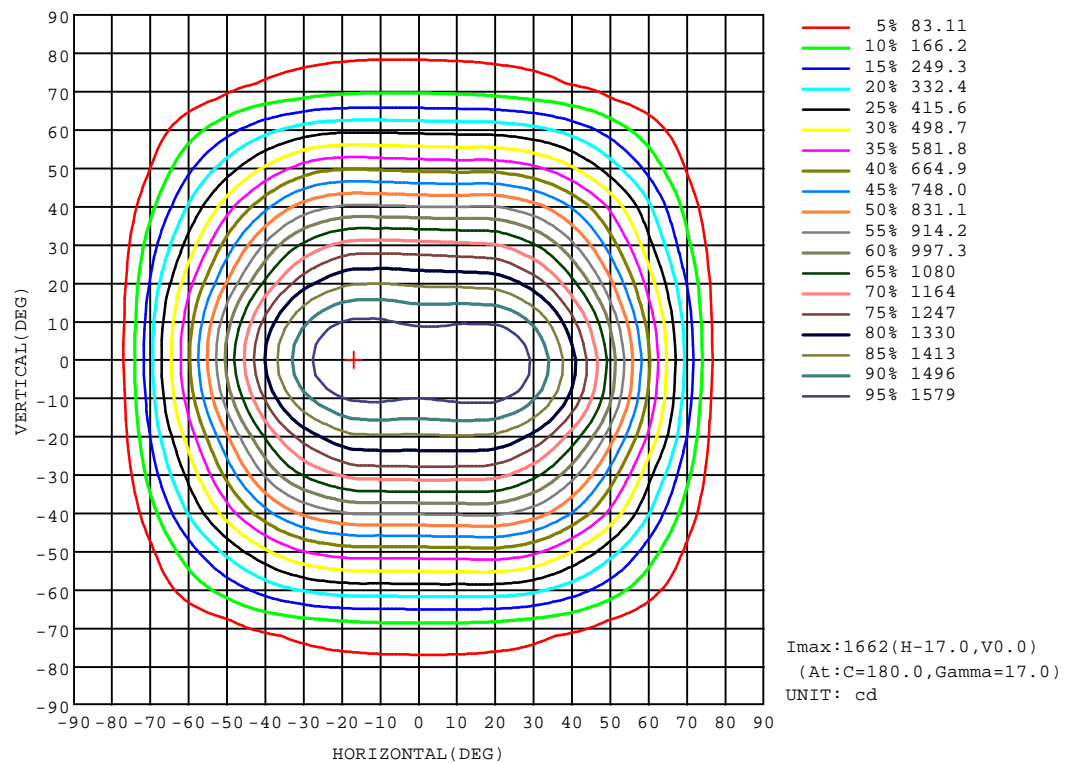
NEMA Beam Type: Type 7

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

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:0.3922A P:85.73W PF:0.9909 Lamp Flux:6100x1 lm		
NAME: STN-SR04 80W	TYPE:	WEIGHT:
SPEC.:STN-SR04 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

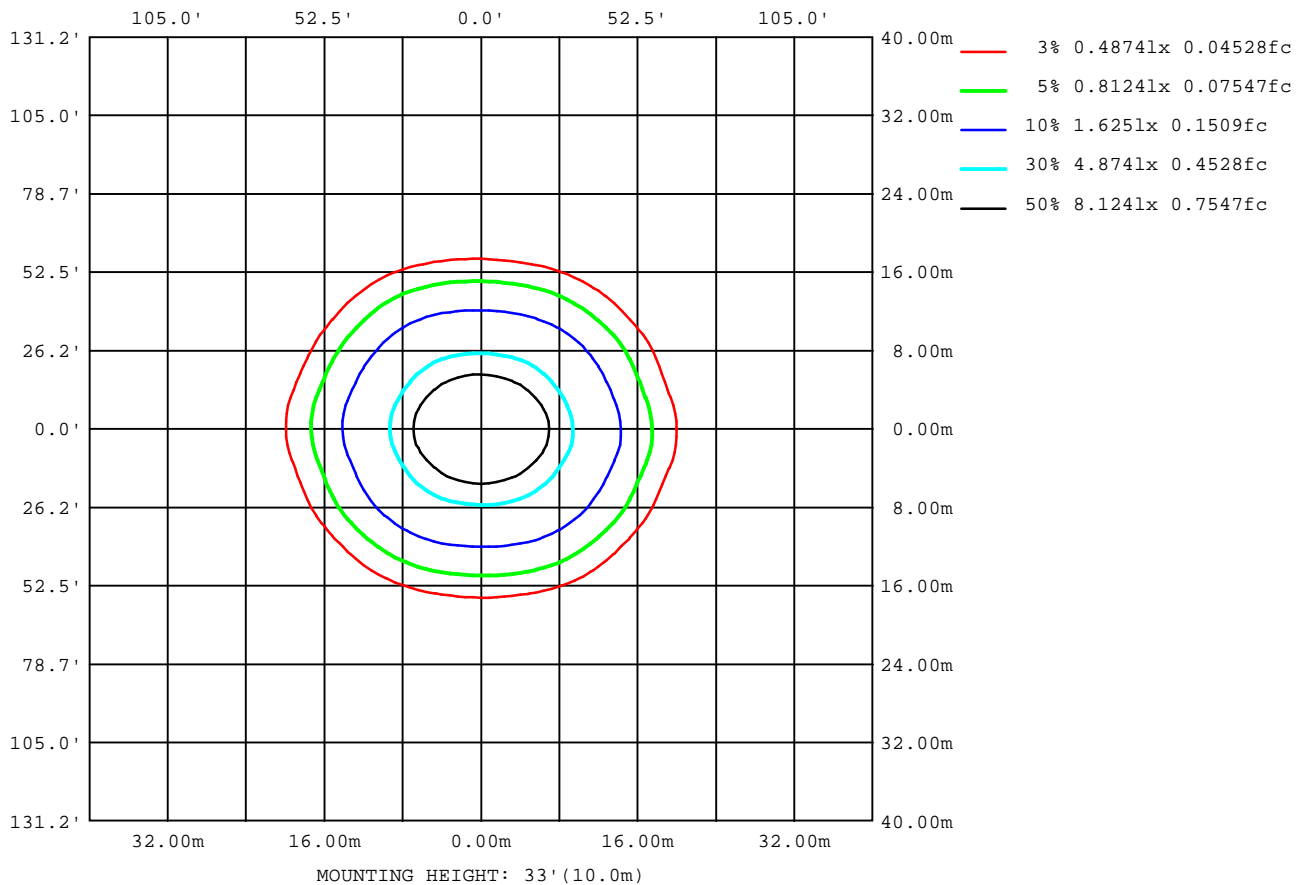


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:0.3922A P:85.73W PF:0.9909 Lamp Flux:6100x1 lm		
NAME: STN-SR04 80W	TYPE:	WEIGHT:
SPEC.:STN-SR04 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

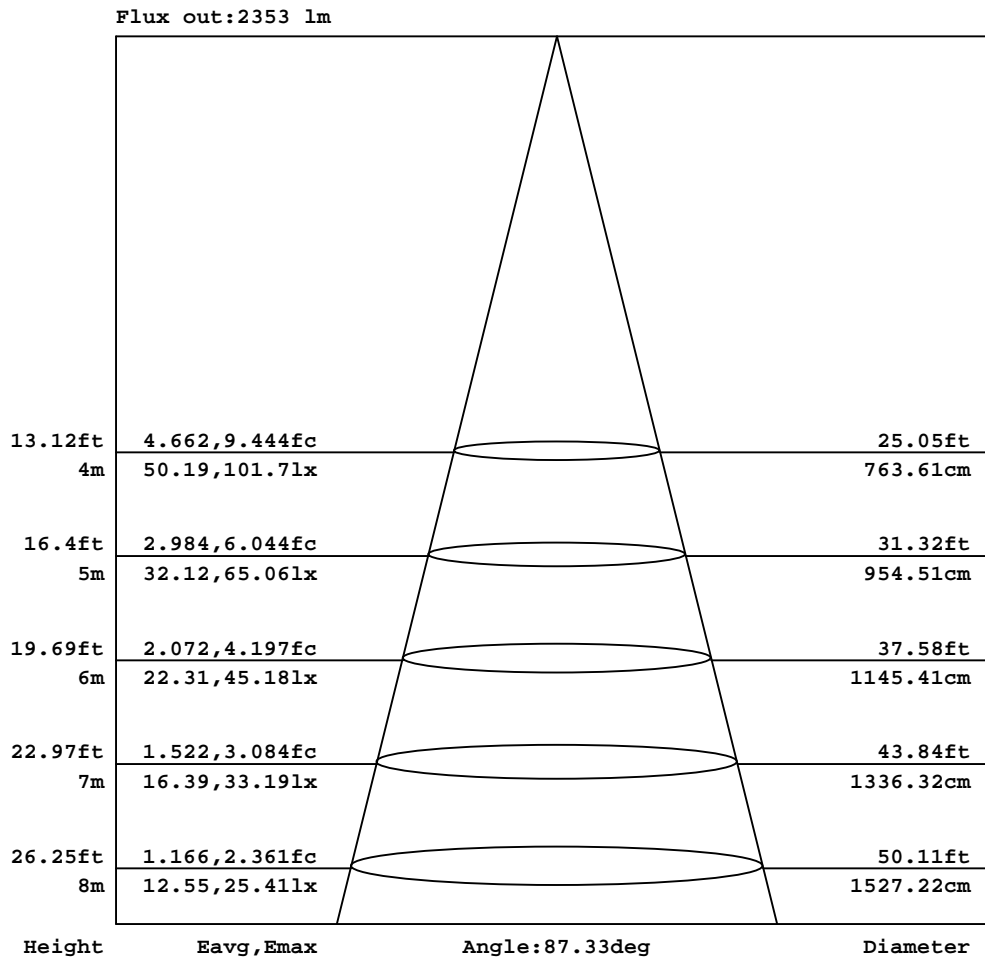


H(h) Range:-90 - 90DEG
H(h) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2013-10-15

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:0.3922A P:85.73W PF:0.9909 Lamp Flux:6100x1 lm		
NAME: STN-SR04 80W	TYPE:	WEIGHT:
SPEC.:STN-SR04 80W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

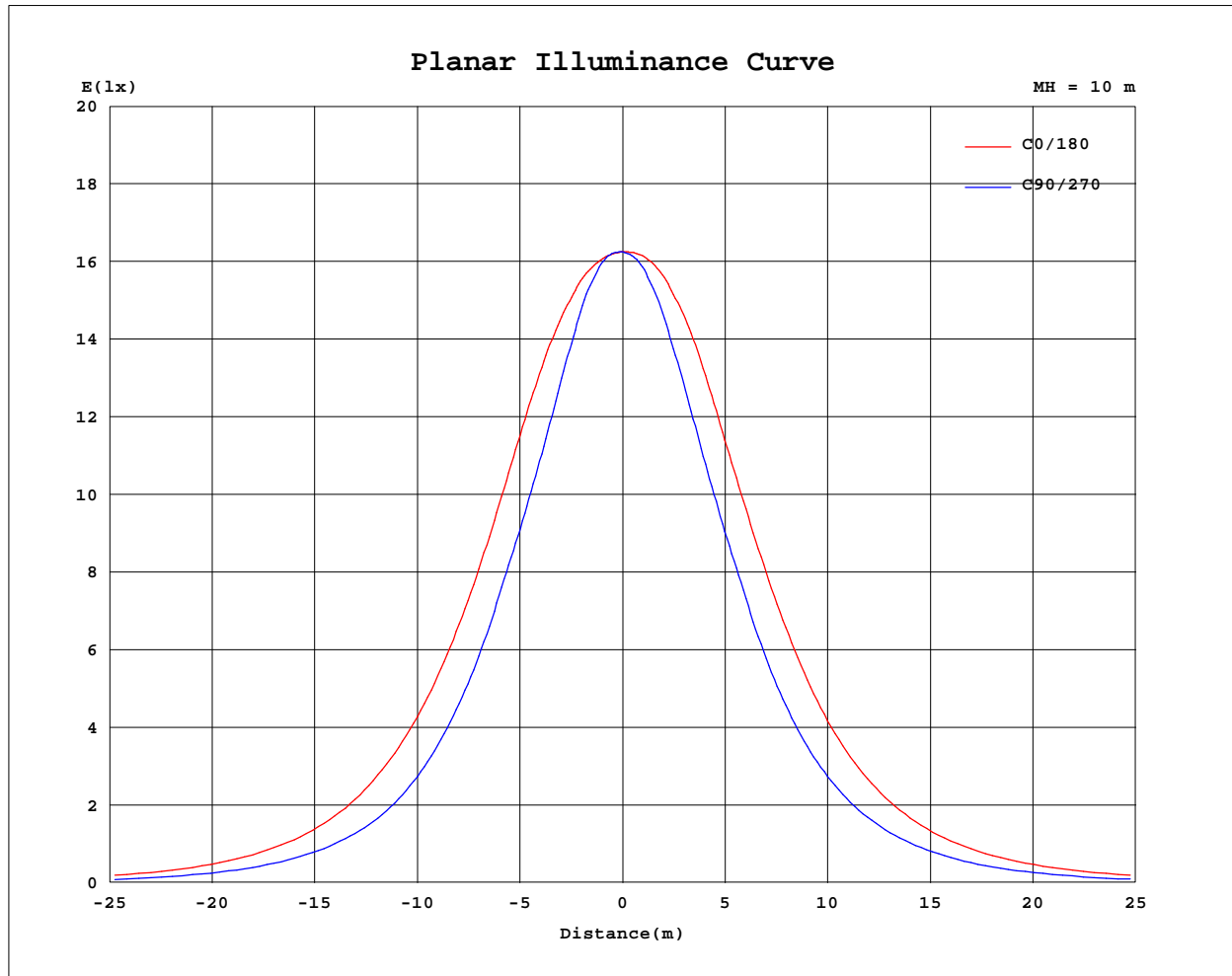


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3922A P:85.73W PF:0.9909 Lamp Flux:6100x1 lm		
NAME: STN-SR04 80W	TYPE:	WEIGHT:
SPEC.:STN-SR04 80W	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	0.26	0.52	0.53	0.53	0.58	0.63	0.63	0.62	0.60	0.57	0.53	0.47	0.42	0.37	0.35	0.32	0.31	0.30	0.30
-85	0.26	0.51	0.63	1.01	1.52	2.48	4.47	6.98	10.1	13.8	17.0	19.3	21.3	22.9	24.1	24.9	25.5	25.7	25.8
-80	0.26	0.50	0.79	1.74	2.93	5.26	10.2	16.5	24.5	33.7	41.7	47.6	52.5	56.7	59.8	61.9	63.2	63.7	64.0
-75	0.26	0.50	0.90	2.22	3.87	7.11	14.1	22.9	34.0	46.9	58.1	66.5	73.3	79.2	83.6	86.5	88.4	89.1	89.5
-70	0.26	0.49	1.06	2.94	5.29	9.89	19.8	32.4	48.3	66.8	82.8	94.7	105	113	119	123	126	127	128
-65	0.26	0.51	1.59	6.12	17.6	34.8	58.2	82.6	109	138	163	183	200	212	220	225	226	227	228
-60	0.25	0.56	2.40	10.9	36.0	72.2	116	158	201	244	283	316	342	360	371	376	376	377	379
-55	0.25	0.58	2.94	14.0	48.2	97.2	154	208	262	314	363	405	437	459	471	478	476	477	479
-50	0.25	0.63	3.75	18.8	66.7	135	212	284	354	420	484	538	580	607	622	629	626	627	630
-45	0.24	0.79	4.39	30.2	92.8	175	263	346	428	506	579	641	688	718	737	747	745	746	748
-40	0.24	1.03	5.36	47.3	132	236	340	440	540	635	722	795	850	886	911	925	924	924	925
-35	0.25	1.08	7.42	60.7	159	272	381	491	602	707	805	887	947	988	1018	1034	1035	1036	1037
-30	0.25	1.15	10.5	80.8	199	326	442	566	694	816	930	1026	1094	1141	1179	1198	1201	1204	1206
-25	0.25	1.14	12.6	91.7	220	356	479	611	745	874	994	1095	1169	1220	1261	1279	1283	1284	1285
-20	0.25	1.13	15.7	108	252	400	534	678	822	962	1090	1199	1282	1340	1385	1402	1407	1404	1403
-15	0.25	1.15	19.4	120	274	433	574	727	881	1029	1166	1281	1367	1424	1470	1488	1492	1487	1486
-10	0.23	1.12	23.0	127	293	462	619	790	957	1113	1260	1385	1478	1540	1585	1599	1601	1593	1589
-5	0.23	1.14	26.5	135	305	478	642	818	991	1154	1306	1431	1525	1589	1632	1641	1640	1627	1621
0	0.21	1.06	28.1	136	309	483	657	837	1015	1182	1333	1455	1546	1611	1655	1660	1653	1637	1626
5	0.22	1.19	30.0	138	311	484	654	835	1009	1173	1325	1446	1536	1601	1642	1648	1644	1628	1618
10	0.21	1.37	27.7	129	297	468	628	801	968	1124	1271	1389	1482	1544	1584	1593	1593	1579	1569
15	0.22	1.59	26.9	127	286	451	605	765	924	1072	1210	1326	1417	1475	1515	1525	1527	1516	1506
20	0.23	1.56	21.9	116	257	408	553	692	836	971	1096	1205	1293	1350	1392	1406	1409	1403	1396
25	0.23	1.55	19.2	107	237	376	511	645	782	910	1029	1132	1214	1268	1309	1323	1325	1321	1315
30	0.25	1.54	15.2	93.9	206	327	449	573	701	819	928	1023	1095	1146	1183	1197	1198	1197	1193
35	0.25	1.39	12.2	80.1	181	291	405	521	638	747	846	934	1002	1046	1077	1088	1087	1085	1081
40	0.25	1.16	7.65	59.4	142	239	340	442	544	638	724	802	861	896	918	924	920	917	912
45	0.26	1.05	6.49	46.8	118	205	296	386	476	560	638	707	762	795	812	816	811	808	803
50	0.28	0.89	4.75	27.9	81.1	154	230	302	373	443	508	565	613	642	653	654	648	644	639
55	0.28	0.76	4.11	23.0	66.0	126	190	251	311	371	426	474	515	540	549	551	547	544	540
60	0.29	0.57	3.14	15.6	43.4	84.0	129	174	219	263	303	337	367	386	394	396	395	393	390
65	0.29	0.44	2.49	10.7	28.3	55.8	89.0	123	158	192	221	246	268	283	290	293	293	292	290
70	0.29	0.25	1.53	3.28	5.72	13.5	28.7	46.8	65.3	84.0	98.3	110	120	129	135	139	141	142	141
75	0.29	0.26	1.28	2.68	4.63	10.9	23.0	37.5	52.3	67.2	78.7	87.9	96.0	103	108	111	113	113	113
80	0.29	0.27	0.91	1.79	3.00	6.90	14.5	23.5	32.8	42.1	49.3	55.0	60.1	64.5	67.6	69.5	70.8	70.9	70.5
85	0.29	0.28	0.66	1.19	1.92	4.26	8.81	14.2	19.8	25.4	29.7	33.1	36.1	38.8	40.7	41.8	42.6	42.6	42.4
90	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.26	0.25	0.24	0.22	0.21	0.21	0.20	0.20	0.19	0.19

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:0.3922A P:85.73W PF:0.9909 Lamp Flux:6100x1 lm		
NAME: STN-SR04 80W	TYPE:	WEIGHT:
SPEC.:STN-SR04 80W	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	0.30	0.32	0.34	0.39	0.43	0.47	0.53	0.62	0.69	0.75	0.81	0.82	0.85	0.88	0.91	0.95	0.97	0.30	
-85	25.8	25.6	25.1	24.3	23.3	21.5	19.3	17.0	13.9	10.3	7.07	4.24	2.45	1.67	1.29	0.95	0.95	0.30	
-80	64.0	63.6	62.3	60.3	57.5	53.1	47.3	41.5	33.8	24.7	16.4	9.36	4.85	2.86	1.86	0.96	0.91	0.30	
-75	89.5	88.9	87.1	84.2	80.3	74.2	66.1	57.9	47.0	34.2	22.7	12.8	6.45	3.65	2.24	0.96	0.89	0.30	
-70	128	127	124	120	115	106	94.2	82.5	66.9	48.6	32.1	17.9	8.84	4.84	2.81	0.97	0.85	0.30	
-65	229	228	227	224	217	205	186	165	140	111	83.1	55.7	33.5	17.4	6.20	1.50	0.83	0.31	
-60	380	380	381	379	371	353	324	290	250	206	160	112	70.4	36.3	11.3	2.30	0.79	0.32	
-55	481	481	484	483	473	451	416	373	324	268	210	150	95.1	48.9	14.7	2.84	0.77	0.32	
-50	633	633	638	638	627	599	554	498	434	362	287	207	132	67.8	19.8	3.64	0.73	0.34	
-45	751	752	756	756	739	710	661	598	525	442	353	260	170	91.2	31.5	4.53	0.76	0.34	
-40	928	930	934	931	909	875	821	747	660	562	453	340	227	126	49.1	5.88	0.81	0.34	
-35	1040	1039	1041	1035	1008	968	907	827	732	623	505	381	263	149	59.1	7.32	0.84	0.35	
-30	1207	1202	1202	1191	1157	1107	1036	947	839	715	584	443	316	184	74.2	9.49	0.88	0.37	
-25	1287	1285	1284	1273	1240	1187	1114	1020	908	777	638	493	355	210	85.0	11.8	0.89	0.37	
-20	1406	1408	1406	1397	1363	1307	1230	1129	1011	870	719	568	413	249	101	15.3	0.90	0.37	
-15	1490	1495	1493	1486	1454	1397	1316	1210	1084	934	768	602	439	265	107	16.8	0.87	0.38	
-10	1595	1603	1607	1603	1571	1511	1424	1312	1176	1016	835	650	473	292	120	21.1	0.97	0.37	
-5	1626	1636	1645	1645	1613	1549	1458	1342	1202	1036	851	665	479	299	124	21.9	0.92	0.35	
0	1630	1645	1654	1656	1628	1565	1473	1354	1213	1049	865	679	490	311	131	24.2	1.05	0.37	
5	1620	1631	1636	1636	1606	1546	1452	1329	1190	1028	847	664	482	306	128	23.4	1.19	0.35	
10	1568	1574	1573	1572	1543	1484	1393	1274	1140	985	812	636	465	294	127	23.3	1.61	0.34	
15	1505	1508	1505	1498	1466	1407	1321	1207	1079	929	765	599	437	274	119	20.6	1.47	0.34	
20	1393	1391	1387	1379	1344	1288	1211	1104	986	850	701	547	396	244	110	17.7	1.38	0.36	
25	1311	1308	1303	1295	1260	1208	1134	1035	922	792	652	505	362	220	97.9	14.8	1.15	0.35	
30	1189	1182	1178	1168	1134	1087	1020	931	827	706	579	441	311	185	80.2	10.4	0.82	0.34	
35	1078	1073	1072	1066	1036	995	934	853	759	649	531	404	281	165	68.8	8.75	0.71	0.34	
40	910	910	913	911	890	857	806	738	657	564	458	348	237	136	51.6	6.29	0.54	0.34	
45	801	799	802	800	781	751	706	644	570	486	393	297	200	111	39.2	5.34	0.46	0.34	
50	636	633	635	632	618	593	556	505	441	370	295	220	144	73.4	20.7	3.92	0.33	0.34	
55	537	534	535	532	519	497	465	421	368	307	244	181	117	59.7	17.1	3.24	0.32	0.34	
60	388	385	384	380	370	353	329	296	258	213	167	122	77.0	39.2	11.8	2.22	0.30	0.34	
65	288	286	284	279	271	257	238	213	184	150	115	82.1	50.3	25.6	8.24	1.54	0.29	0.34	
70	139	137	134	128	122	113	102	88.2	74.2	55.5	37.9	22.8	10.3	5.08	2.92	0.52	0.28	0.34	
75	111	110	107	103	97.4	90.6	81.3	70.6	59.4	44.4	30.4	18.3	8.29	4.12	2.40	0.48	0.29	0.34	
80	69.7	68.6	66.9	64.1	61.0	56.7	50.9	44.2	37.2	27.9	19.1	11.5	5.29	2.69	1.61	0.41	0.31	0.34	
85	41.9	41.2	40.2	38.6	36.7	34.1	30.6	26.6	22.4	16.8	11.6	7.03	3.29	1.73	1.08	0.37	0.32	0.34	
90	0.19	0.19	0.20	0.20	0.20	0.20	0.25	0.24	0.24	0.24	0.28	0.29	0.29	0.29	0.29	0.31	0.34	0.34	

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: