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STN-SR04 300W

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Light Output Ratio:	62.9%
Luminaire Power:	309.2 W
90% Beam Spread	73.9V x 76.9H
50% Beam Lumens	506.5 lumens per klm.

H(b) Range:-90 - 90DEG  
H(b) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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	232.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	148.1V x 145.5H
	At 50% of Imax	108.2V x 116.3H
	At 90% of Imax	73.9V x 76.9H

Beam Flux	Total	629.6 lumens per klm.
	To 10% of Imax	617.5 lumens per klm.
	To 50% of Imax	506.5 lumens per klm.
	To 90% of Imax	228.7 lumens per klm.

Upward LOR	0.2 %
Downward LOR	62.8 %

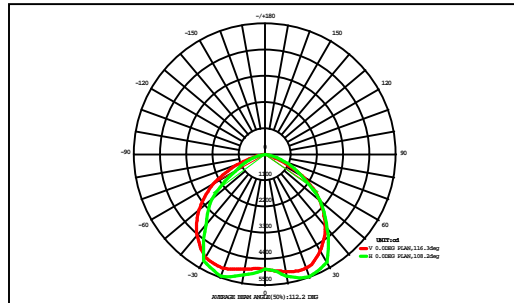
Luminaire Efficiency(Light Output Ratio)	62.9 %
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H(b) Range:-90 - 90DEG  
H(b) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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:220.4V I:1.411A P:309.2W PF:0.9947 Lamp Flux:24100x1 lm		
NAME: STN-SR04 300W	TYPE:	WEIGHT:
SPEC.:STN-SR04 300W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:49.05lm/W	
MODEL	STN-SR04 300W	Imax(cd)	5600
NOMINAL POWER(W)	300	AVAILABILITY(%)	61.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	14890
NOMINAL FLUX(lm)	24100	LOR(%)	62.9
LAMPS INSIDE	1	TOTAL FLUX(lm)	15169
TEST VOLTAGE(V)	220.4	q @50%(H,V)	116,108DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm				F t	F a
	0.00	0.02	0.07	0.22	0.46	0.60	0.59	0.71	0.76	0.71	0.67	0.63	0.59	0.42	0.22	0.08	0.02	0.00	6.74	0.00	
90	0.00	0.06	0.64	2.56	5.69	8.68	11.1	12.6	13.3	13.5	13.3	11.5	8.43	4.91	1.96	0.38	0.04	0.00	109	52.6	
80	0.01	0.10	1.34	6.29	15.2	24.5	32.4	37.2	39.3	40.0	39.7	35.1	26.0	15.6	6.57	1.42	0.11	0.01	321	303	
70	0.02	0.37	4.25	15.9	33.3	51.0	64.6	71.3	72.3	72.7	71.6	62.8	46.9	28.8	12.5	2.67	0.21	0.01	611	602	
60	0.02	0.68	6.96	25.3	51.5	78.5	99.1	109	110	108	108	98.2	78.6	52.6	26.7	7.81	0.79	0.02	962	956	
50	0.03	1.93	13.9	40.2	73.7	106	129	140	142	142	140	128	102	68.0	34.5	10.3	1.13	0.02	1273	1269	
40	0.03	2.03	14.9	44.1	82.3	119	147	160	163	163	161	149	122	85.4	47.7	17.4	2.58	0.04	1480	1477	
30	0.05	3.67	21.1	52.9	90.1	125	150	160	163	164	162	148	119	83.6	46.7	16.6	2.25	0.04	1507	1504	
-30	0.04	2.77	18.1	47.9	82.4	116	141	151	151	151	151	142	116	84.1	50.6	21.1	3.64	0.06	1429	1427	
	0.06	3.87	21.3	51.4	86.0	118	142	151	152	153	152	140	114	80.3	46.3	17.4	2.63	0.04	1431	1429	
-40	0.03	2.46	16.5	46.4	83.3	119	146	159	162	161	160	148	122	87.4	50.3	19.9	3.37	0.05	1486	1483	
	0.03	2.83	17.3	47.4	85.3	121	147	159	162	162	160	144	116	79.4	41.8	13.7	1.76	0.02	1461	1458	
-50	0.02	1.26	10.0	33.5	66.2	99.8	125	137	139	138	138	126	102	70.3	37.4	12.5	1.63	0.03	1238	1234	
	0.02	0.92	7.57	25.0	49.5	74.8	94.0	103	103	104	103	91.4	70.5	45.1	21.4	5.34	0.53	0.01	900	894	
-60	0.01	0.21	2.48	10.8	25.8	42.7	57.2	65.8	67.2	66.9	65.4	57.5	43.4	27.3	12.7	3.14	0.29	0.02	549	539	
	0.01	0.11	1.29	5.56	13.2	21.7	28.2	31.5	32.6	32.4	31.0	26.8	19.6	11.3	4.12	0.82	0.08	0.01	260	239	
-70	0.01	0.04	0.37	1.63	4.11	7.12	9.55	10.9	11.4	11.3	10.9	9.72	7.30	4.52	1.92	0.46	0.06	0.01	91.4	23.7	
	0.01	0.03	0.06	0.10	0.15	0.21	0.25	0.29	0.32	0.32	0.34	0.31	0.21	0.16	0.10	0.06	0.03	0.01	2.95	0.00	
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90	
F t	0.39	23.4	158	457	848	1233	1523	1661	1683	1686	1668	1518	1215	829	443	151	21.2	0.40	15118	---	
F a	0.00	15.5	140	439	831	1219	1509	1648	1670	1673	1655	1506	1201	811	426	134	13.4	0.00	---	14890	

one-half-peak spread: U:31.5,D:32.5 , L:39.0,R:37.4

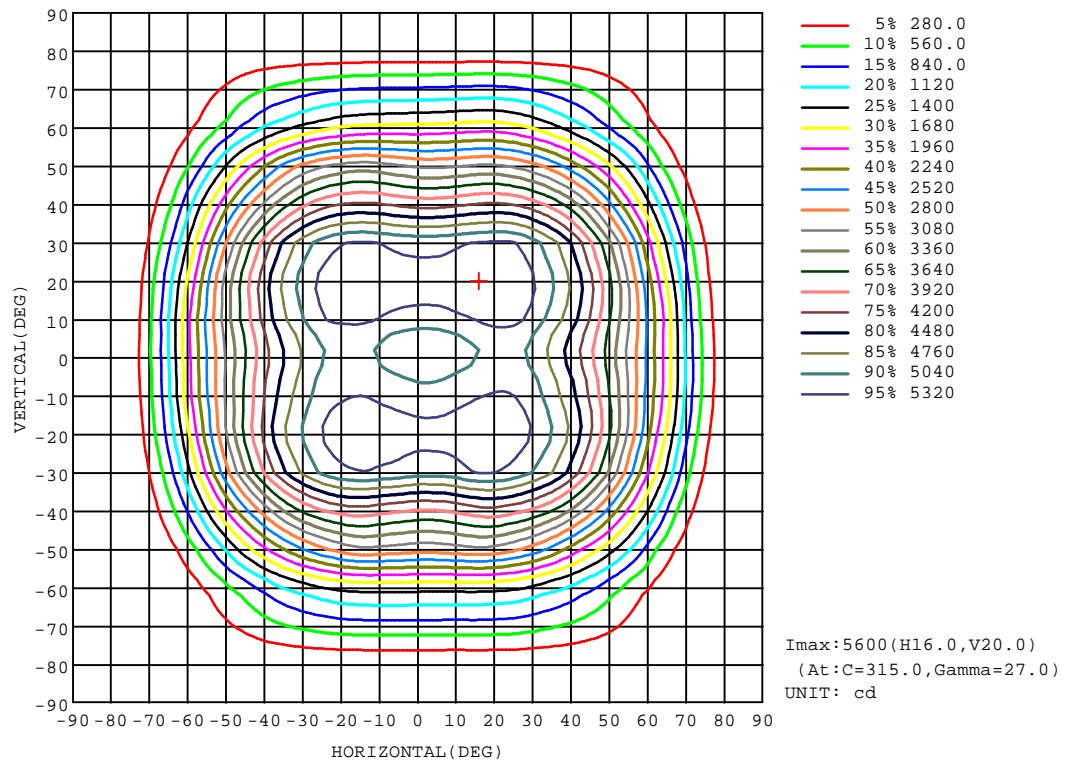
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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:220.4V I:1.411A P:309.2W PF:0.9947 Lamp Flux:24100x1 lm		
NAME: STN-SR04 300W	TYPE:	WEIGHT:
SPEC.:STN-SR04 300W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

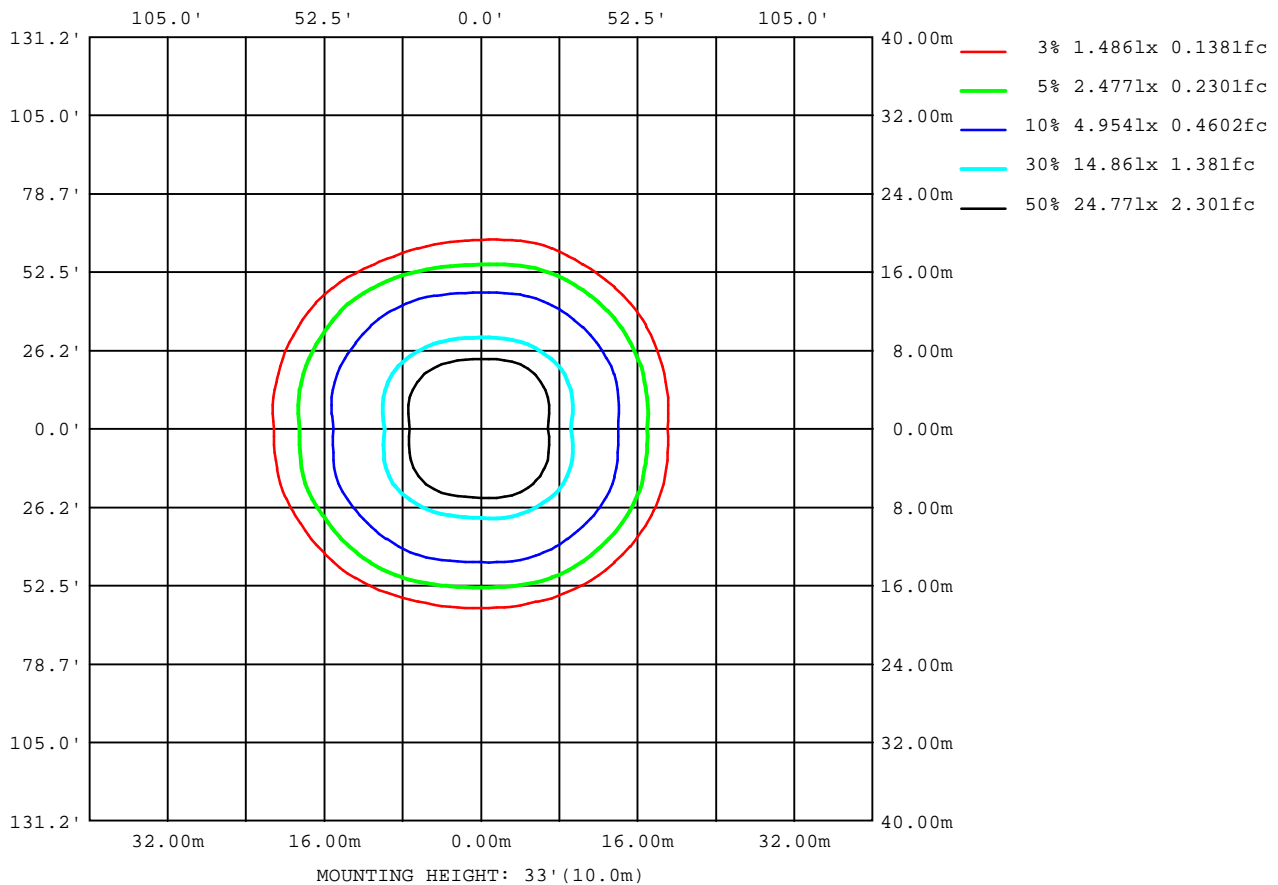


H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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:220.4V I:1.411A P:309.2W PF:0.9947 Lamp Flux:24100x1 lm		
NAME: STN-SR04 300W	TYPE:	WEIGHT:
SPEC.:STN-SR04 300W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

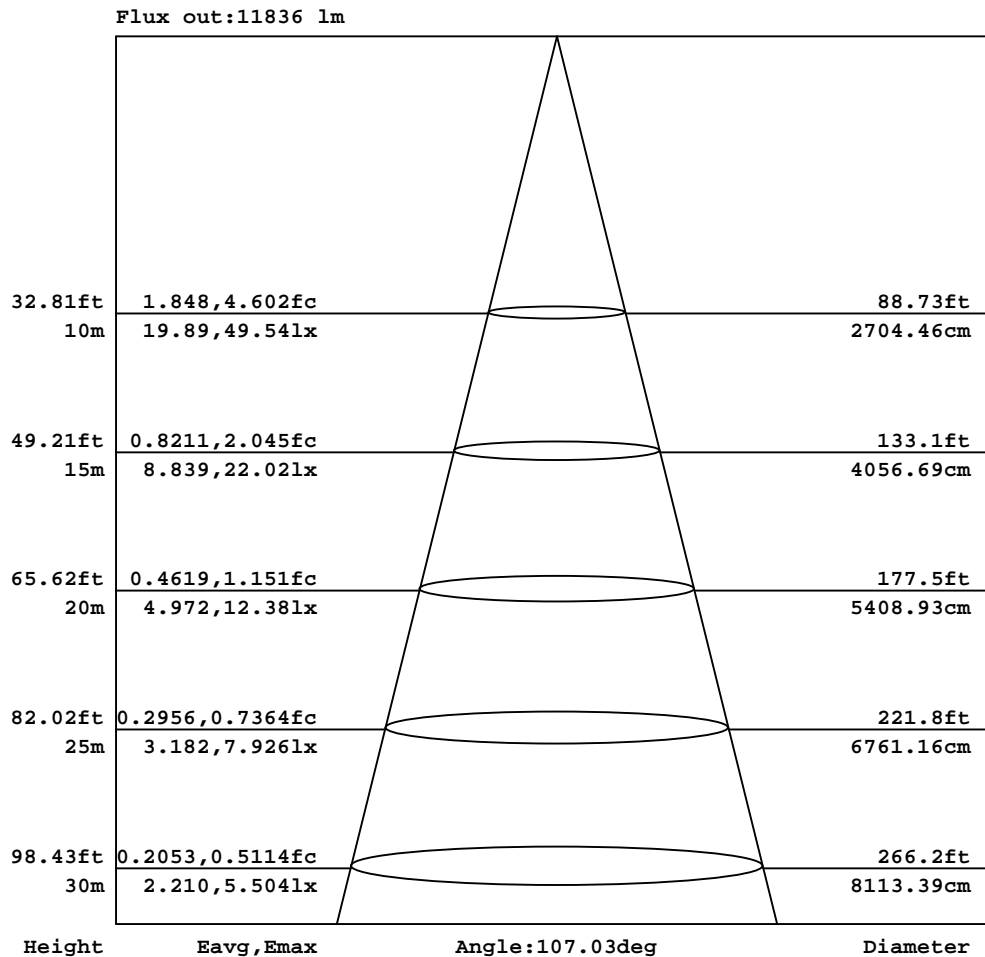


H(h) Range:-90 - 90DEG  
 H(h) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
 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:220.4V I:1.411A P:309.2W PF:0.9947 Lamp Flux:24100x1 lm		
NAME: STN-SR04 300W	TYPE:	WEIGHT:
SPEC.:STN-SR04 300W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

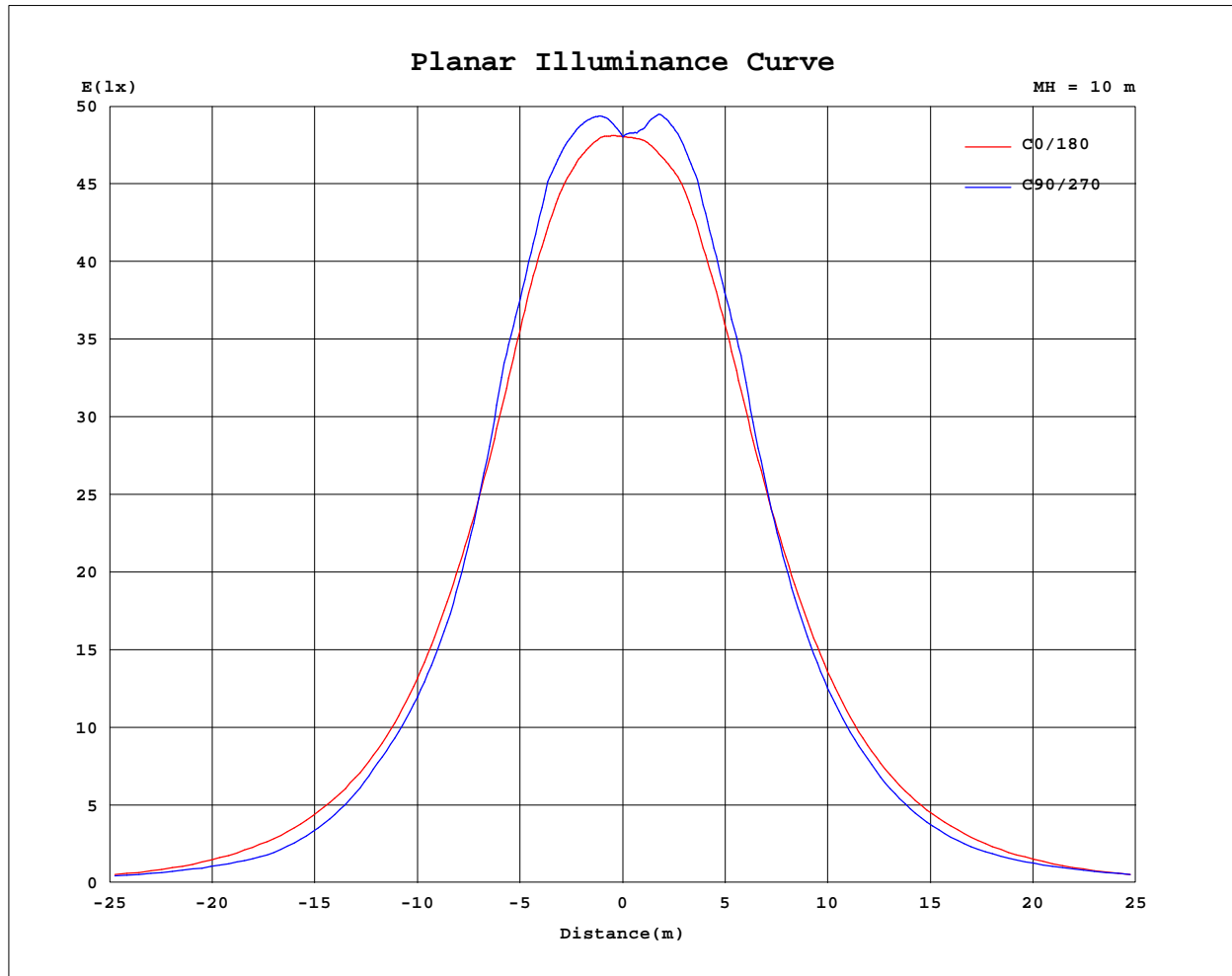


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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:2015-04-11

V(B) Range:-180 - 180DEG  
 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:220.4V I:1.411A P:309.2W PF:0.9947 Lamp Flux:24100x1 lm		
NAME: STN-SR04 300W	TYPE:	WEIGHT:
SPEC.:STN-SR04 300W	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
-180	1.56	2.56	3.42	3.88	4.29	5.04	6.46	8.03	9.48	10.7	11.5	12.1	12.2	12.3	12.8	13.3	13.7	13.6	13.6
-170	0.96	1.60	2.48	3.20	3.62	4.07	4.86	6.26	7.76	9.16	10.3	11.1	11.8	11.9	12.1	12.5	13.0	13.3	13.3
-160	1.63	2.40	2.97	3.36	3.85	4.67	6.06	7.49	8.84	9.94	10.8	11.5	11.7	11.8	12.2	12.6	12.9	12.9	12.8
-150	0.95	1.64	2.45	2.92	3.34	3.83	4.65	5.98	7.30	8.54	9.59	10.4	11.0	11.4	11.5	11.7	12.1	12.3	12.3
-140	1.64	2.51	2.87	3.32	3.81	4.62	5.90	7.11	8.25	9.24	9.99	10.6	11.0	11.1	11.2	11.5	11.7	11.8	11.7
-130	0.88	1.60	2.59	2.93	3.37	3.94	4.71	5.75	6.74	7.74	8.49	9.00	9.39	9.64	9.71	9.73	9.84	10.0	10.0
-120	1.57	2.67	2.99	3.42	4.08	4.80	5.60	6.38	7.23	7.73	8.01	8.18	8.26	8.28	8.24	8.22	8.27	8.29	8.27
-110	0.84	1.50	2.55	2.80	3.18	3.70	4.22	4.72	5.15	5.61	5.88	5.98	6.00	5.98	5.92	5.86	5.82	5.82	5.81
-100	1.43	2.42	2.61	2.93	3.32	3.64	3.85	3.92	4.00	4.02	3.95	3.82	3.69	3.55	3.47	3.41	3.37	3.33	3.35
-90	0.86	1.33	2.28	2.48	3.42	4.22	4.89	5.64	6.50	7.10	7.61	8.45	8.97	9.08	9.12	9.53	10.1	10.3	10.3
-80	1.23	2.15	2.35	3.91	5.11	6.15	7.44	9.08	10.2	11.2	12.9	14.1	14.5	14.7	15.6	16.7	17.3	17.3	17.5
-70	0.90	1.18	3.02	5.21	11.0	24.4	74.8	148	240	340	449	543	613	670	711	729	735	735	731
-60	1.13	3.90	8.06	18.0	43.6	143	288	472	670	887	1074	1213	1326	1407	1443	1454	1453	1445	1444
-50	0.97	1.14	4.78	12.3	33.8	183	422	754	1147	1561	1912	2233	2517	2748	2920	3028	3012	2972	2931
-40	1.28	5.88	18.3	140	440	854	1399	1951	2443	2924	3354	3681	3884	4010	4045	3987	3916	3865	3867
-30	0.99	1.29	6.97	33.3	285	709	1314	2014	2699	3356	3946	4435	4806	5090	5257	5308	5271	5227	5159
-20	1.32	8.77	65.7	419	950	1638	2383	3098	3739	4304	4761	5089	5352	5504	5563	5545	5497	5449	5448
-10	0.96	1.30	10.6	96.8	502	1074	1826	2504	3129	3693	4203	4605	4911	5167	5284	5319	5261	5190	5144
0	1.29	12.2	111	528	1119	1856	2521	3090	3609	4076	4450	4752	4992	5074	5088	4980	4884	4816	4828
10	0.92	1.34	12.7	100.0	524	1116	1901	2585	3221	3783	4294	4702	5025	5283	5373	5380	5308	5229	5189
20	1.42	11.7	78.5	453	1018	1730	2472	3208	3830	4382	4830	5164	5409	5536	5576	5531	5480	5460	5467
30	0.90	1.32	9.67	43.2	312	762	1401	2097	2796	3449	4026	4520	4890	5150	5299	5344	5314	5260	5235
40	1.22	7.91	24.0	176	502	996	1595	2152	2667	3133	3529	3850	4071	4191	4231	4207	4135	4088	4087
50	0.98	0.91	5.57	15.9	53.9	254	539	949	1408	1837	2221	2583	2867	3048	3166	3227	3187	3113	3042
60	0.82	3.70	10.00	20.4	67.5	209	391	608	866	1082	1254	1403	1530	1625	1676	1697	1713	1724	1742
70	0.99	0.84	2.26	5.83	11.6	36.2	109	202	314	446	557	643	717	778	826	853	865	873	878
80	0.86	0.82	1.67	2.84	4.91	8.56	13.7	19.5	26.2	31.6	31.4	31.5	26.7	27.1	30.6	33.4	33.1	31.5	30.4
90	0.91	0.91	0.95	1.44	2.10	3.22	5.13	7.81	10.7	14.2	16.9	16.9	16.9	14.5	14.7	16.4	17.8	17.7	16.8
100	0.96	1.07	1.20	1.36	1.53	1.70	1.88	2.02	2.13	2.23	2.30	2.35	2.35	2.33	2.29	2.24	2.20	2.18	2.18
110	0.87	1.02	1.28	1.64	2.05	2.47	2.87	3.29	3.68	4.02	4.30	4.50	4.63	4.68	4.68	4.64	4.60	4.57	4.57
120	1.08	1.50	2.07	2.73	3.41	4.04	4.71	5.34	5.90	6.37	6.71	6.91	7.02	7.03	6.99	6.95	6.95	6.95	6.94
130	0.78	1.12	1.71	2.50	3.30	3.98	4.59	5.34	6.07	6.75	7.35	7.82	8.15	8.38	8.47	8.50	8.60	8.75	8.81
140	1.16	1.92	2.93	3.87	4.55	5.13	5.97	6.81	7.60	8.33	8.93	9.39	9.75	9.92	10.0	10.3	10.5	10.7	10.7
150	0.72	1.22	2.10	3.18	4.01	4.53	5.06	6.00	6.99	7.96	8.82	9.51	10.1	10.5	10.6	10.8	11.1	11.5	11.5
160	1.28	2.28	3.42	4.14	4.52	4.99	6.04	7.18	8.32	9.30	10.1	10.8	11.2	11.3	11.6	12.0	12.4	12.4	12.4
170	0.70	1.29	2.32	3.33	3.89	4.26	4.84	6.03	7.30	8.54	9.58	10.4	11.0	11.3	11.4	11.8	12.3	12.6	12.6
180	1.31	2.36	3.24	3.63	4.00	4.69	6.02	7.43	8.75	9.86	10.7	11.2	11.3	11.4	12.0	12.5	12.8	12.8	12.8

H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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:220.4V I:1.411A P:309.2W PF:0.9947 Lamp Flux:24100x1 lm		
NAME: STN-SR04 300W	TYPE:	WEIGHT:
SPEC.:STN-SR04 300W	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	
-180	13.6	13.4	12.9	12.4	12.3	12.0	11.5	10.8	10.1	8.76	7.23	5.94	4.91	4.17	3.23	2.09	1.26	0.74	
-170	13.2	13.2	13.0	12.6	12.1	12.0	11.8	11.2	10.6	9.76	8.49	7.03	5.77	4.78	4.03	3.17	2.12	1.37	
-160	12.8	12.7	12.3	11.8	11.7	11.5	11.0	10.4	9.47	8.23	6.83	5.60	4.65	3.89	3.11	2.14	1.49	1.03	
-150	12.3	12.3	12.1	11.8	11.4	11.3	11.1	10.6	9.99	9.11	7.95	6.62	5.47	4.57	3.86	3.27	2.63	1.76	
-140	11.7	11.5	11.2	11.1	10.9	10.6	10.2	9.61	8.76	7.67	6.41	5.33	4.50	3.84	3.42	3.11	2.04	0.65	
-130	10.0	10.0	9.93	9.82	9.76	9.71	9.55	9.30	8.88	8.23	7.34	6.28	5.29	4.57	4.05	3.81	3.45	2.28	
-120	8.29	8.31	8.41	8.46	8.48	8.47	8.40	8.14	7.70	7.01	6.16	5.24	4.65	4.27	4.20	3.79	2.51	0.16	
-110	5.81	5.87	5.96	6.11	6.22	6.31	6.40	6.45	6.39	6.20	5.83	5.33	4.77	4.41	4.17	4.10	3.78	2.49	
-100	3.46	3.61	3.82	3.98	4.14	4.33	4.50	4.64	4.70	4.65	4.51	4.31	4.16	4.07	3.99	3.76	2.47	0.14	
-90	10.4	9.93	11.1	12.0	12.0	10.5	9.08	8.31	7.78	8.28	7.21	5.81	5.00	4.64	4.32	3.79	3.64	2.35	
-80	16.4	18.6	20.3	20.1	16.8	13.8	12.1	10.9	11.9	9.77	7.12	5.69	5.11	4.58	3.58	3.51	2.22	0.53	
-70	731	727	730	720	702	654	589	519	432	334	223	135	64.7	22.1	11.1	6.05	3.99	2.09	
-60	1438	1442	1421	1385	1291	1165	1025	852	656	436	263	124	39.0	17.6	8.52	4.48	1.97	0.70	
-50	2933	2981	3022	2993	2867	2692	2446	2141	1825	1506	1153	751	387	165	32.5	13.1	5.36	1.96	
-40	3939	4038	4085	3994	3857	3649	3336	2919	2433	1917	1401	830	371	115	17.4	6.17	1.89	0.89	
-30	5162	5213	5319	5322	5229	5031	4767	4389	3898	3327	2657	1981	1342	667	252	29.3	7.52	1.89	
-20	5492	5564	5578	5513	5328	5070	4729	4263	3691	3037	2326	1631	909	374	55.8	8.85	1.71	1.17	
-10	5147	5208	5290	5338	5322	5166	4892	4573	4154	3639	3056	2420	1799	1056	467	78.3	10.9	1.59	
0	4903	4992	5079	5080	4935	4664	4343	3955	3494	2998	2450	1813	1089	483	88.6	12.5	1.55	1.49	
10	5197	5261	5327	5419	5398	5214	4923	4603	4180	3660	3107	2489	1839	1045	442	81.7	12.6	1.64	
20	5516	5564	5599	5556	5372	5093	4755	4293	3718	3077	2378	1654	932	369	63.2	11.6	1.71	1.34	
30	5236	5280	5326	5352	5331	5145	4860	4476	3964	3394	2769	2055	1350	725	276	37.8	10.3	1.67	
40	4136	4203	4233	4185	4047	3827	3511	3081	2580	2026	1470	896	429	132	21.8	8.18	1.37	1.21	
50	3028	3059	3111	3122	3037	2893	2674	2387	2065	1712	1314	869	467	200	42.0	15.5	6.20	1.10	
60	1768	1793	1797	1735	1613	1439	1248	1033	786	553	337	162	44.1	18.8	9.56	3.68	0.91	1.29	
70	886	899	911	913	882	822	735	639	530	404	285	175	85.0	24.3	10.7	5.61	2.28	0.94	
80	30.0	29.5	29.2	29.5	30.5	31.2	30.3	27.8	21.8	17.2	13.0	7.89	4.47	2.69	1.67	0.88	0.97	1.03	
90	16.3	16.1	15.9	15.8	15.9	16.4	16.8	16.4	15.1	12.0	9.68	7.48	4.85	3.06	2.09	1.49	1.03	1.02	
100	2.20	2.26	2.32	2.37	2.40	2.43	2.41	2.34	2.24	2.12	1.97	1.81	1.64	1.48	1.32	1.18	1.06	0.96	
110	4.56	4.54	4.55	4.57	4.59	4.60	4.58	4.49	4.32	4.05	3.72	3.34	2.94	2.53	2.12	1.71	1.35	1.08	
120	6.89	6.85	6.82	6.81	6.80	6.73	6.57	6.29	5.86	5.32	4.71	4.08	3.41	2.75	2.10	1.53	1.10	0.80	
130	8.80	8.75	8.60	8.43	8.33	8.21	8.02	7.76	7.36	6.83	6.17	5.44	4.71	3.98	3.24	2.45	1.69	1.11	
140	10.6	10.4	10.0	9.85	9.63	9.32	8.96	8.44	7.80	7.02	6.16	5.34	4.54	3.74	2.81	1.86	1.12	0.64	
150	11.5	11.5	11.2	10.8	10.5	10.3	10.0	9.55	8.96	8.24	7.34	6.38	5.52	4.72	3.95	3.01	1.96	1.10	
160	12.3	12.0	11.6	11.2	11.0	10.7	10.1	9.48	8.68	7.66	6.61	5.70	4.90	4.17	3.22	2.07	1.08	0.53	
170	12.6	12.5	12.3	11.8	11.4	11.2	11.0	10.4	9.83	9.08	7.99	6.78	5.72	4.84	4.10	3.22	2.11	1.09	
180	12.7	12.5	12.1	11.6	11.5	11.2	10.7	10.2	9.49	8.33	6.94	5.74	4.77	4.03	3.22	2.14	1.10	0.45	

H(h) Range:-90 - 90DEG  
H(h) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2015-04-11

V(B) Range:-180 - 180DEG  
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: