

STN-DIL 03 250W



Light Output Ratio:	69.7%
Luminaire Power:	248.2 W
90% Beam Spread	35.4V x 35.3H
50% Beam Lumens	470.5 lumens per klm.

H(b) Range:-90 - 90DEG
H(b) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:BJG
Test Date:2014-11-29

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	365.8 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	135.2V x 131.7H
	At 50% of I _{max}	87.0V x 88.3H
	At 90% of I _{max}	35.4V x 35.3H

Beam Flux	Total	696.5 lumens per klm.
	To 10% of I _{max}	670.7 lumens per klm.
	To 50% of I _{max}	470.5 lumens per klm.
	To 90% of I _{max}	101.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	69.7 %

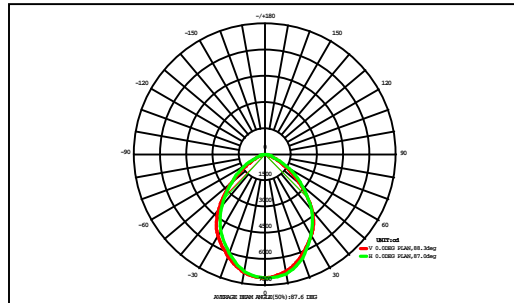
Luminaire Efficiency(Light Output Ratio)	69.7 %
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H(h) Range:-90 - 90DEG
H(h) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:BJG
Test Date:2014-11-29

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:220.4V I:1.132A P:248.2W PF:0.9948 Lamp Flux:19350x1 lm		
NAME: STN-DIL 03 250W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 250W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:54.30lm/W	
MODEL	STN-DIL 03 250W	I _{max} (cd)	7078
NOMINAL POWER(W)	250	AVAILABILITY(%)	67.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	12989
NOMINAL FLUX(lm)	19350	LOR(%)	69.7
LAMPS INSIDE	1	TOTAL FLUX(lm)	13478
TEST VOLTAGE(V)	220.4	q @50%(H,V)	88,87DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		F t	F a
	0.00	0.02	0.09	0.21	0.66	1.46	2.28	2.95	3.40	3.46	3.06	2.35	1.48	0.68	0.22	0.09	0.02	0.00	22.4	0.00
90	0.00	0.05	0.25	0.64	2.04	4.51	7.08	9.18	10.6	10.7	9.48	7.25	4.53	2.05	0.64	0.26	0.06	0.00	69.3	0.00
80	0.01	0.12	0.72	2.95	6.92	13.4	20.9	27.0	30.8	31.2	27.7	21.3	13.7	7.35	3.16	0.82	0.13	0.01	208	143
70	0.01	0.22	1.54	7.40	15.8	29.0	44.9	57.9	65.9	66.6	59.3	45.8	30.0	17.1	8.07	1.81	0.24	0.02	451	422
60	0.02	0.33	3.01	12.0	26.5	49.2	73.9	93.3	104	105	94.1	74.5	50.2	28.4	13.4	3.59	0.37	0.02	732	715
50	0.03	0.46	5.25	17.4	40.9	74.9	108	131	143	143	130	106	74.8	42.4	19.3	6.15	0.60	0.03	1043	1031
40	0.03	0.64	7.17	23.2	55.6	97.4	134	160	175	174	158	131	96.2	56.6	25.1	8.31	0.91	0.04	1304	1294
30	0.04	0.86	8.55	28.3	66.8	113	151	181	200	200	180	149	112	67.8	30.1	9.89	1.19	0.05	1499	1491
20	0.04	1.00	9.27	30.9	71.9	120	160	192	212	211	190	157	119	73.6	33.1	10.7	1.37	0.05	1592	1585
10	0.04	1.00	9.22	30.2	70.8	119	159	190	210	209	189	157	119	73.5	33.1	10.7	1.38	0.05	1581	1574
0	0.03	0.86	8.34	26.5	63.2	109	148	176	193	193	175	147	110	66.5	29.8	9.65	1.21	0.04	1456	1447
-10	0.02	0.62	6.85	21.2	50.6	89.7	126	153	167	167	153	127	92.7	54.1	24.0	7.99	0.92	0.03	1241	1231
-20	0.02	0.41	4.99	15.9	36.6	67.2	97.7	122	135	134	122	99.7	69.7	39.2	17.7	5.93	0.59	0.03	969	955
-30	0.01	0.26	2.82	11.0	23.6	43.3	65.8	84.4	94.7	94.2	83.9	66.4	44.6	25.0	12.2	3.60	0.35	0.02	656	637
-40	0.01	0.18	1.38	6.62	13.9	24.9	38.9	51.3	57.9	57.5	50.4	38.7	25.3	14.7	7.38	1.83	0.22	0.02	391	356
-50	0.01	0.10	0.66	2.68	5.81	11.2	18.2	24.3	27.7	27.7	24.4	18.7	12.2	6.65	3.06	0.86	0.14	0.01	184	107
-60	0.00	0.05	0.21	0.47	1.15	3.02	5.44	7.56	8.90	9.04	8.01	6.10	3.91	1.83	0.60	0.26	0.08	0.01	56.6	0.00
-70	0.00	0.02	0.09	0.20	0.46	1.11	1.95	2.69	3.15	3.20	2.84	2.17	1.40	0.68	0.25	0.11	0.04	0.01	20.4	0.00
-80	0.00	0.02	0.09	0.20	0.46	1.11	1.95	2.69	3.15	3.20	2.84	2.17	1.40	0.68	0.25	0.11	0.04	0.01	20.4	0.00
-90	0.00	0.02	0.09	0.20	0.46	1.11	1.95	2.69	3.15	3.20	2.84	2.17	1.40	0.68	0.25	0.11	0.04	0.01	20.4	0.00
F t	0.32	7.22	70.4	238	553	972	1362	1666	1841	1838	1660	1357	981	578	261	82.6	9.82	0.44	13478	---
F a	0.00	0.00	27.2	202	522	942	1332	1633	1807	1803	1627	1326	951	547	228	41.5	0.00	0.00	---	12989

one-half-peak spread: U:42.5,D:44.9 , L:43.5,R:45.2

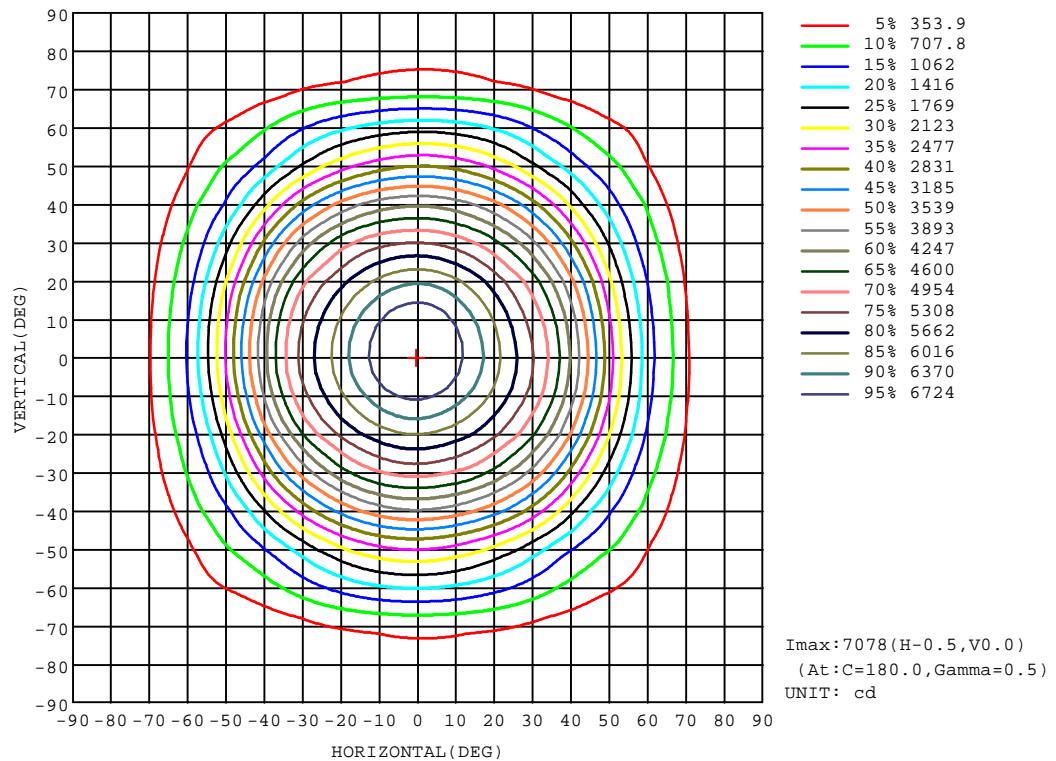
NEMA Beam Type: Type 7

H(h) Range:-90 - 90DEG
H(h) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:BJG
Test Date:2014-11-29

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:220.4V I:1.132A P:248.2W PF:0.9948 Lamp Flux:19350x1 lm		
NAME: STN-DIL 03 250W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 250W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

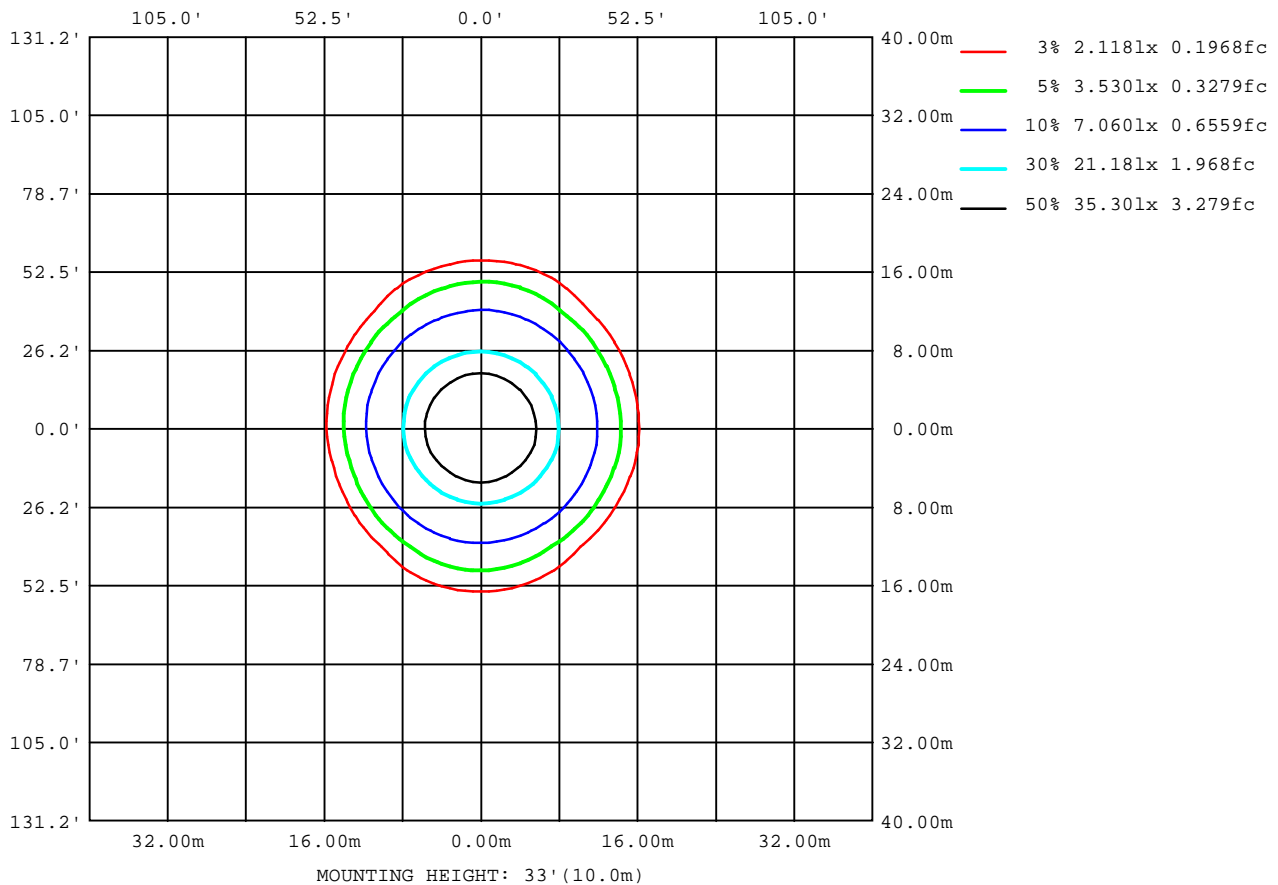


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Temperature:25.3DEG
Operators:BJG
Test Date:2014-11-29

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:220.4V I:1.132A P:248.2W PF:0.9948 Lamp Flux:19350x1 lm		
NAME: STN-DIL 03 250W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 250W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



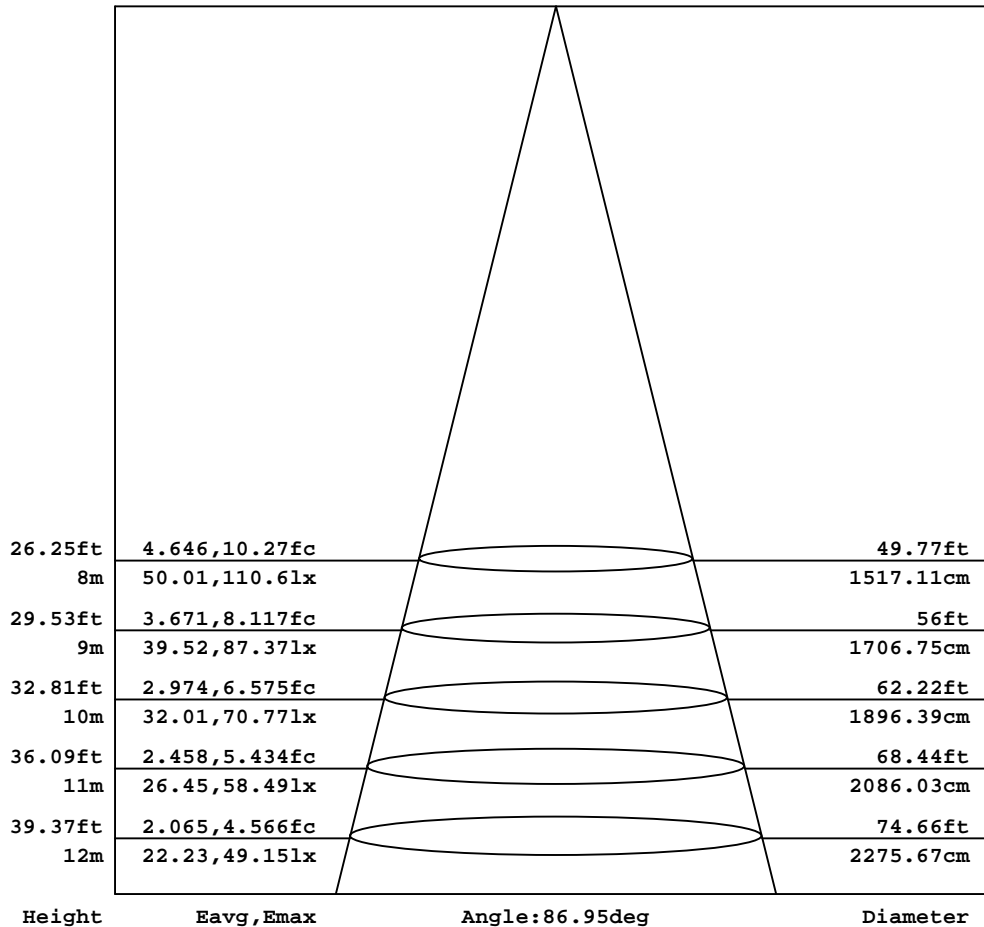
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H(h) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:BJG
Test Date:2014-11-29

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:220.4V I:1.132A P:248.2W PF:0.9948 Lamp Flux:19350x1 lm		
NAME: STN-DIL 03 250W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 250W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

Flux out:9056 lm

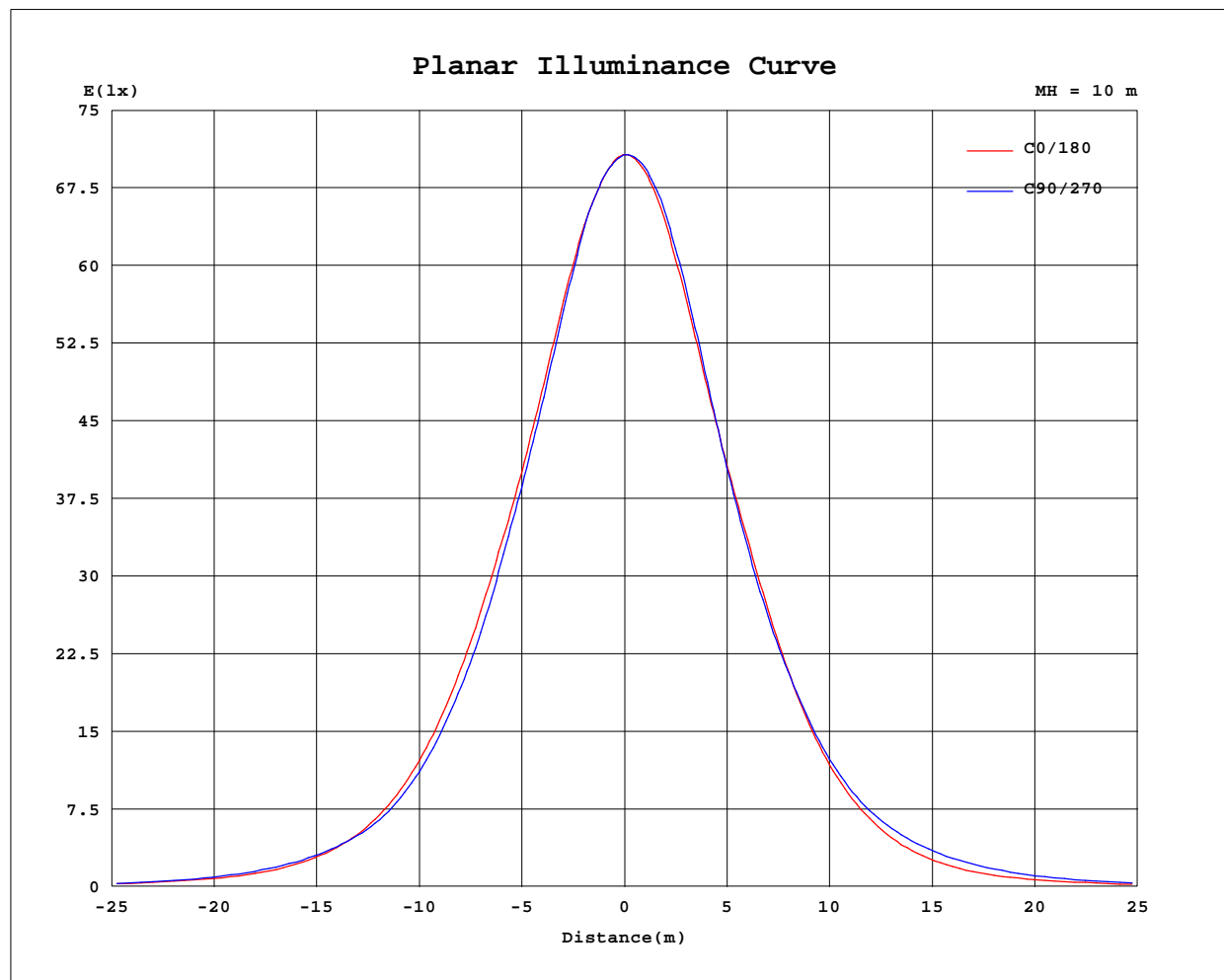


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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H(h) Interval: 0.5DEG
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Operators:BJG
Test Date:2014-11-29

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



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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:220.4V I:1.132A P:248.2W PF:0.9948 Lamp Flux:19350x1 lm		
NAME: STN-DIL 03 250W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 250W	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	0.54	1.35	1.39	1.39	1.44	1.49	1.49	1.52	1.52	1.54	1.49	1.43	1.35	1.28	1.18	1.18	1.18	1.25	1.24
-85	0.54	1.34	1.74	2.53	3.81	5.51	7.38	9.24	11.2	16.5	25.1	35.5	46.5	56.9	66.0	73.7	79.9	84.0	85.4
-80	0.54	1.33	2.26	4.23	7.36	11.5	16.2	20.8	25.8	39.0	60.6	86.6	114	140	163	182	198	208	212
-75	0.54	1.32	2.61	5.37	9.73	15.6	22.1	28.5	35.5	53.9	84.2	121	159	196	228	255	277	291	296
-70	0.54	1.31	3.14	7.07	13.3	21.6	30.9	40.1	50.1	76.4	120	172	227	279	325	364	395	415	422
-65	0.54	1.50	4.33	10.6	20.0	39.4	81.9	130	175	227	301	392	490	584	668	735	786	818	828
-60	0.54	1.79	6.13	15.9	30.1	66.1	158	264	362	452	573	723	884	1040	1181	1293	1374	1422	1436
-55	0.54	1.98	7.33	19.4	36.8	84.0	209	353	486	602	755	943	1147	1345	1524	1665	1766	1825	1841
-50	0.54	2.26	9.13	24.7	46.9	111	286	487	673	827	1027	1274	1542	1801	2038	2223	2354	2429	2449
-45	0.53	2.39	10.6	29.0	57.6	178	384	594	799	1031	1319	1642	1969	2270	2536	2747	2901	2991	3015
-40	0.53	2.58	12.7	35.4	73.8	280	532	754	987	1336	1757	2195	2609	2974	3283	3533	3720	3832	3863
-35	0.53	2.80	14.7	40.4	111	350	613	861	1177	1612	2102	2593	3039	3431	3765	4028	4216	4327	4357
-30	0.54	3.11	17.7	47.9	168	456	734	1023	1460	2026	2619	3191	3684	4116	4488	4770	4959	5069	5098
-25	0.52	3.18	19.5	52.5	202	506	790	1141	1647	2271	2912	3517	4048	4484	4843	5118	5312	5432	5466
-20	0.48	3.28	22.4	59.3	253	582	874	1318	1929	2638	3351	4007	4593	5036	5375	5641	5842	5976	6016
-15	0.48	3.53	25.4	64.3	287	636	946	1445	2118	2878	3625	4313	4898	5313	5656	5933	6168	6322	6368
-10	0.46	3.58	28.5	67.5	315	679	1023	1588	2322	3134	3924	4641	5204	5615	5970	6304	6579	6757	6810
-5	0.48	3.87	31.5	70.0	334	705	1070	1670	2437	3264	4072	4791	5339	5745	6121	6477	6759	6925	6957
0	0.46	3.90	32.3	70.4	337	713	1094	1719	2505	3338	4152	4873	5411	5821	6216	6581	6872	7027	7077
5	0.48	5.57	32.7	70.9	338	715	1091	1723	2510	3341	4152	4867	5397	5808	6199	6563	6856	7022	7074
10	0.48	6.10	31.5	68.9	317	689	1046	1670	2428	3245	4042	4752	5288	5688	6066	6426	6716	6906	6959
15	0.49	6.15	31.1	67.8	302	666	1005	1602	2336	3130	3911	4614	5162	5533	5894	6229	6503	6691	6758
20	0.48	5.55	28.8	63.7	256	606	918	1447	2118	2861	3613	4294	4861	5245	5553	5845	6084	6253	6318
25	0.50	5.28	27.2	60.6	219	555	860	1316	1923	2617	3329	3985	4540	4940	5261	5531	5734	5869	5918
30	0.53	4.89	24.8	55.9	164	477	772	1119	1631	2252	2904	3520	4059	4483	4823	5059	5208	5294	5317
35	0.53	4.35	22.4	51.1	129	407	694	994	1421	1955	2539	3109	3616	4019	4351	4591	4749	4840	4867
40	0.54	3.54	18.8	44.0	75.2	302	576	807	1104	1510	1992	2492	2952	3323	3643	3889	4060	4158	4191
45	0.55	3.00	16.5	39.1	67.2	226	474	703	959	1273	1659	2080	2481	2819	3105	3330	3495	3597	3633
50	0.58	2.21	13.1	31.7	55.3	112	322	547	740	918	1160	1462	1775	2063	2299	2492	2647	2754	2797
55	0.59	1.90	11.0	26.8	47.3	94.3	265	447	605	759	966	1218	1479	1719	1915	2077	2207	2297	2333
60	0.61	1.44	7.83	19.6	35.3	68.3	179	297	404	520	673	851	1035	1203	1341	1454	1546	1610	1637
65	0.62	1.13	5.73	14.7	27.3	50.9	122	197	269	361	478	607	739	859	957	1039	1106	1152	1173
70	0.63	0.66	2.58	7.43	15.2	24.8	35.7	47.1	67.1	123	186	240	295	343	383	417	445	466	477
75	0.63	0.66	2.19	6.08	12.3	20.0	28.7	37.9	53.8	98.4	149	192	236	274	306	334	356	373	382
80	0.64	0.66	1.62	4.05	7.96	12.8	18.2	23.9	33.9	61.8	93.5	120	148	172	192	209	223	233	239
85	0.64	0.65	1.23	2.70	5.04	7.92	11.2	14.7	20.6	37.4	56.4	72.6	89.1	103	115	126	134	140	144
90	0.64	0.65	0.66	0.68	0.68	0.68	0.72	0.72	0.72	0.77	0.77	0.77	0.77	0.77	0.77	0.81	0.87	0.95	1.10

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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:220.4V I:1.132A P:248.2W PF:0.9948 Lamp Flux:19350x1 lm		
NAME: STN-DIL 03 250W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 250W	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	1.30	1.39	1.46	1.54	1.57	1.57	1.67	1.78	1.83	1.87	1.88	1.88	1.91	1.97	2.01	1.92	1.98	0.66	
-85	85.1	82.4	77.8	71.3	63.3	54.3	45.0	35.9	25.1	16.1	11.0	9.04	7.06	5.29	3.88	2.82	2.00	0.65	
-80	211	204	192	176	156	133	110	87.1	59.9	37.3	24.7	19.8	14.8	10.3	6.70	4.16	2.05	0.64	
-75	294	285	269	246	218	186	153	121	83.1	51.5	33.9	27.0	19.9	13.6	8.57	5.06	2.08	0.63	
-70	420	406	383	350	310	265	219	172	118	72.8	47.6	37.7	27.7	18.5	11.4	6.40	2.12	0.63	
-65	818	788	742	680	605	520	432	348	267	201	147	99.4	54.5	26.0	15.3	7.80	2.58	0.63	
-60	1415	1361	1280	1174	1048	903	751	611	491	393	296	192	94.7	37.1	21.1	9.89	3.28	0.63	
-55	1813	1744	1638	1504	1343	1158	964	787	640	521	396	254	122	44.5	25.0	11.3	3.74	0.63	
-50	2410	2317	2176	1999	1786	1541	1283	1050	864	713	545	346	162	55.6	30.8	13.4	4.44	0.63	
-45	2974	2874	2723	2527	2286	2000	1685	1370	1091	867	658	451	239	84.7	36.5	15.3	4.76	0.63	
-40	3819	3711	3544	3319	3035	2689	2287	1850	1433	1098	827	609	354	128	45.1	18.2	5.24	0.63	
-35	4313	4208	4040	3803	3499	3131	2692	2206	1722	1306	957	687	426	171	50.6	20.3	5.32	0.64	
-30	5055	4953	4784	4529	4195	3794	3299	2741	2155	1617	1153	804	535	234	58.8	23.4	5.44	0.66	
-25	5415	5301	5124	4868	4541	4136	3636	3051	2423	1824	1303	887	597	274	68.7	26.8	5.70	0.66	
-20	5956	5823	5634	5376	5059	4650	4141	3517	2825	2134	1528	1011	691	334	83.6	31.9	6.10	0.67	
-15	6290	6119	5888	5612	5277	4884	4374	3739	3023	2290	1640	1080	726	357	93.2	34.3	6.08	0.67	
-10	6737	6548	6270	5938	5583	5192	4690	4050	3307	2517	1800	1188	792	401	109	38.0	6.69	0.68	
-5	6884	6708	6423	6060	5679	5278	4778	4139	3390	2580	1843	1214	810	409	112	38.2	7.10	0.68	
0	6983	6808	6534	6154	5745	5336	4853	4217	3460	2641	1879	1248	828	422	118	39.1	8.93	0.68	
5	6982	6799	6508	6120	5700	5295	4815	4182	3422	2607	1855	1234	817	410	114	38.4	8.89	0.68	
10	6889	6689	6374	6002	5582	5189	4704	4077	3323	2523	1790	1197	798	394	110	37.9	9.19	0.68	
15	6685	6476	6179	5823	5421	5044	4543	3914	3177	2399	1705	1139	766	366	99.3	36.2	8.69	0.67	
20	6254	6074	5812	5491	5144	4754	4243	3626	2921	2192	1558	1048	718	327	86.1	34.4	8.36	0.68	
25	5860	5703	5474	5179	4839	4445	3938	3339	2673	2006	1428	976	651	287	75.8	32.1	7.69	0.67	
30	5269	5147	4967	4710	4381	3981	3482	2909	2301	1726	1233	868	550	228	60.3	28.7	6.68	0.64	
35	4825	4709	4530	4281	3961	3569	3095	2566	2020	1525	1105	787	472	185	55.6	26.3	6.09	0.64	
40	4158	4051	3875	3636	3331	2949	2514	2053	1598	1225	913	665	355	120	48.6	22.8	5.20	0.64	
45	3608	3512	3348	3124	2838	2491	2113	1732	1360	1057	789	539	274	95.3	43.0	19.9	4.33	0.64	
50	2782	2704	2557	2355	2098	1803	1512	1250	1004	805	603	350	153	57.9	34.7	15.6	3.02	0.63	
55	2320	2255	2131	1963	1749	1502	1257	1037	828	657	492	287	128	49.7	29.6	13.1	2.53	0.62	
60	1628	1581	1494	1375	1225	1050	876	718	565	436	325	193	89.5	37.4	21.9	9.40	1.80	0.61	
65	1167	1132	1068	983	876	749	622	505	389	289	214	130	64.1	29.2	16.9	6.93	1.31	0.60	
70	474	458	430	395	352	297	240	185	125	67.5	47.1	36.2	25.9	16.9	9.25	3.24	0.57	0.59	
75	380	366	345	316	282	238	193	149	101	54.3	37.9	29.2	20.9	13.7	7.52	2.71	0.58	0.59	
80	238	230	216	198	177	149	121	93.5	63.5	34.5	24.1	18.6	13.3	8.78	4.93	1.92	0.58	0.59	
85	143	138	130	120	107	90.3	73.3	56.8	38.7	21.2	15.0	11.5	8.27	5.52	3.20	1.40	0.59	0.59	
90	1.24	1.39	1.48	1.58	1.57	1.62	1.69	1.70	1.54	1.42	1.20	0.94	0.71	0.63	0.61	0.61	0.59	0.59	

H(h) Range:-90 - 90DEG
 H(h) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:BJG
 Test Date:2014-11-29

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: