

STN-DIL 03 200W



Light Output Ratio:	70.1%
Luminaire Power:	194.5 W
90% Beam Spread	32.4V x 30.9H
50% Beam Lumens	444.6 lumens per klm.

H(b) Range:-90 - 90DEG
H(b) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2014-11-28

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

Beam Spread	At 10% of I _{max}	130.4V x 123.8H
	At 50% of I _{max}	79.8V x 78.6H
	At 90% of I _{max}	32.4V x 30.9H

Beam Flux	Total	701.0 lumens per klm.
	To 10% of I _{max}	672.2 lumens per klm.
	To 50% of I _{max}	444.6 lumens per klm.
	To 90% of I _{max}	94.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	70.1 %

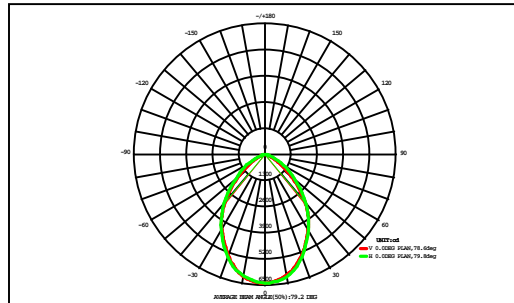
Luminaire Efficiency(Light Output Ratio)	70.1 %
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H(b) Range:-90 - 90DEG
H(b) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2014-11-28

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:0.8899A P:194.5W PF:0.9917 Lamp Flux:15130x1 lm		
NAME: STN-DIL 03 200W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 200W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:54.54lm/W	
MODEL	STN-DIL 03 200W	Imax(cd)	6399
NOMINAL POWER(W)	200	AVAILABILITY(%)	67.3
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	10176
NOMINAL FLUX(lm)	15130	LOR(%)	70.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	10606
TEST VOLTAGE(V)	220.4	q @50%(H,V)	79,80DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm			F t	F a
	0.00	0.01	0.06	0.14	0.26	0.67	1.18	1.56	1.81	1.81	1.53	1.07	0.56	0.24	0.13	0.06	0.02	0.00	11.1	0.00		
90	0.00	0.01	0.06	0.14	0.26	0.67	1.18	1.56	1.81	1.81	1.53	1.07	0.56	0.24	0.13	0.06	0.02	0.00	11.1	0.00		
80	0.00	0.04	0.17	0.41	0.79	2.06	3.65	4.84	5.62	5.61	4.77	3.33	1.72	0.74	0.40	0.17	0.04	0.00	34.3	0.00		
70	0.00	0.08	0.38	1.78	4.11	7.97	12.6	16.7	19.3	19.6	17.3	12.8	7.77	3.98	1.61	0.36	0.09	0.01	127	55.5		
60	0.01	0.15	0.72	4.40	10.6	19.0	29.1	38.4	44.3	45.1	40.2	30.6	19.4	10.3	3.91	0.64	0.15	0.01	297	263		
50	0.01	0.21	1.48	7.69	18.1	33.3	51.1	66.5	75.7	76.4	68.2	52.6	33.8	17.9	7.26	1.32	0.22	0.02	512	492		
40	0.02	0.27	2.86	11.9	28.1	52.9	79.8	101	113	113	101	79.6	52.2	27.5	11.6	2.59	0.29	0.02	778	764		
30	0.02	0.34	4.26	16.0	38.8	71.8	104	130	145	146	130	104	70.2	37.6	15.5	4.01	0.35	0.03	1018	1007		
-30	0.03	0.41	5.40	19.5	47.5	85.6	121	153	174	175	154	122	84.5	46.2	18.8	5.18	0.43	0.03	1213	1203		
	0.03	0.47	6.03	21.3	51.8	92.4	131	168	189	189	167	131	92.2	51.2	20.8	5.78	0.49	0.03	1319	1310		
-40	0.02	0.47	6.03	21.2	51.5	92.4	132	168	189	188	167	131	92.5	51.8	21.0	5.80	0.49	0.03	1318	1309		
	0.02	0.41	5.42	19.2	46.5	85.1	122	155	175	174	154	122	85.9	47.7	19.3	5.22	0.44	0.03	1217	1207		
-50	0.02	0.33	4.25	15.7	37.8	70.7	104	131	147	147	131	105	72.0	38.9	15.7	4.08	0.37	0.02	1025	1013		
-60	0.01	0.26	2.83	11.7	27.5	52.7	80.2	102	113	113	101	79.7	52.6	27.5	11.4	2.66	0.30	0.02	779	764		
	0.01	0.19	1.47	7.43	17.7	33.8	52.8	68.4	76.3	75.3	66.0	50.4	32.2	17.0	7.18	1.40	0.23	0.01	508	487		
-70	0.01	0.14	0.72	4.07	10.2	19.0	30.1	39.7	44.4	43.3	37.2	27.6	17.2	9.63	3.95	0.70	0.16	0.01	288	252		
-80	0.01	0.08	0.39	1.74	4.12	7.80	12.8	17.2	19.5	19.1	16.4	12.1	7.24	3.95	1.74	0.42	0.10	0.01	125	51.4		
	0.00	0.04	0.17	0.38	0.67	1.38	2.70	3.95	4.76	4.72	3.98	2.85	1.44	0.71	0.43	0.20	0.05	0.01	28.4	0.00		
-90	0.00	0.02	0.07	0.15	0.28	0.54	1.02	1.46	1.74	1.73	1.46	1.06	0.56	0.29	0.17	0.08	0.03	0.00	10.7	0.00		
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																						
F t	0.23	3.93	42.7	165	396	729	1072	1367	1539	1535	1363	1069	724	393	161	40.7	4.24	0.28	10606	---		
F a	0.00	0.00	5.87	128	365	702	1046	1342	1512	1509	1337	1044	696	361	124	4.86	0.00	0.00	---	10176		

one-half-peak spread: U:40.1,D:40.2 , L:39.0,R:40.1

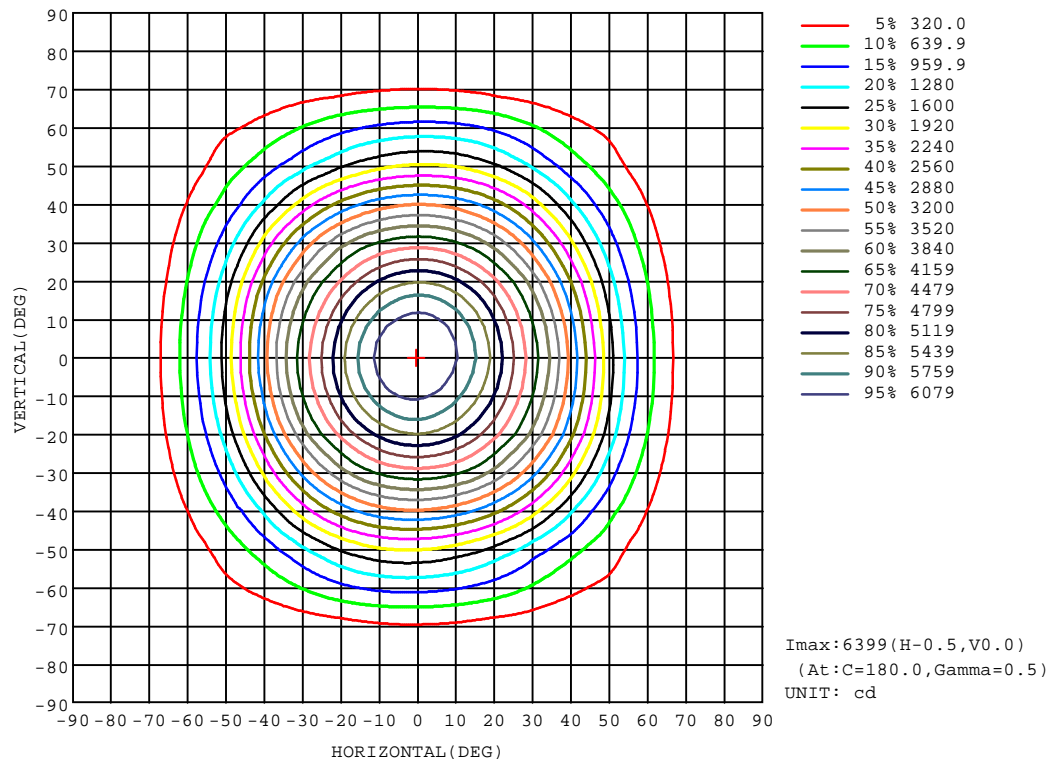
NEMA Beam Type: Type 6 x 7 (H x V)

H(h) Range:-90 - 90DEG
H(h) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2014-11-28

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:0.8899A P:194.5W PF:0.9917 Lamp Flux:15130x1 lm		
NAME: STN-DIL 03 200W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 200W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

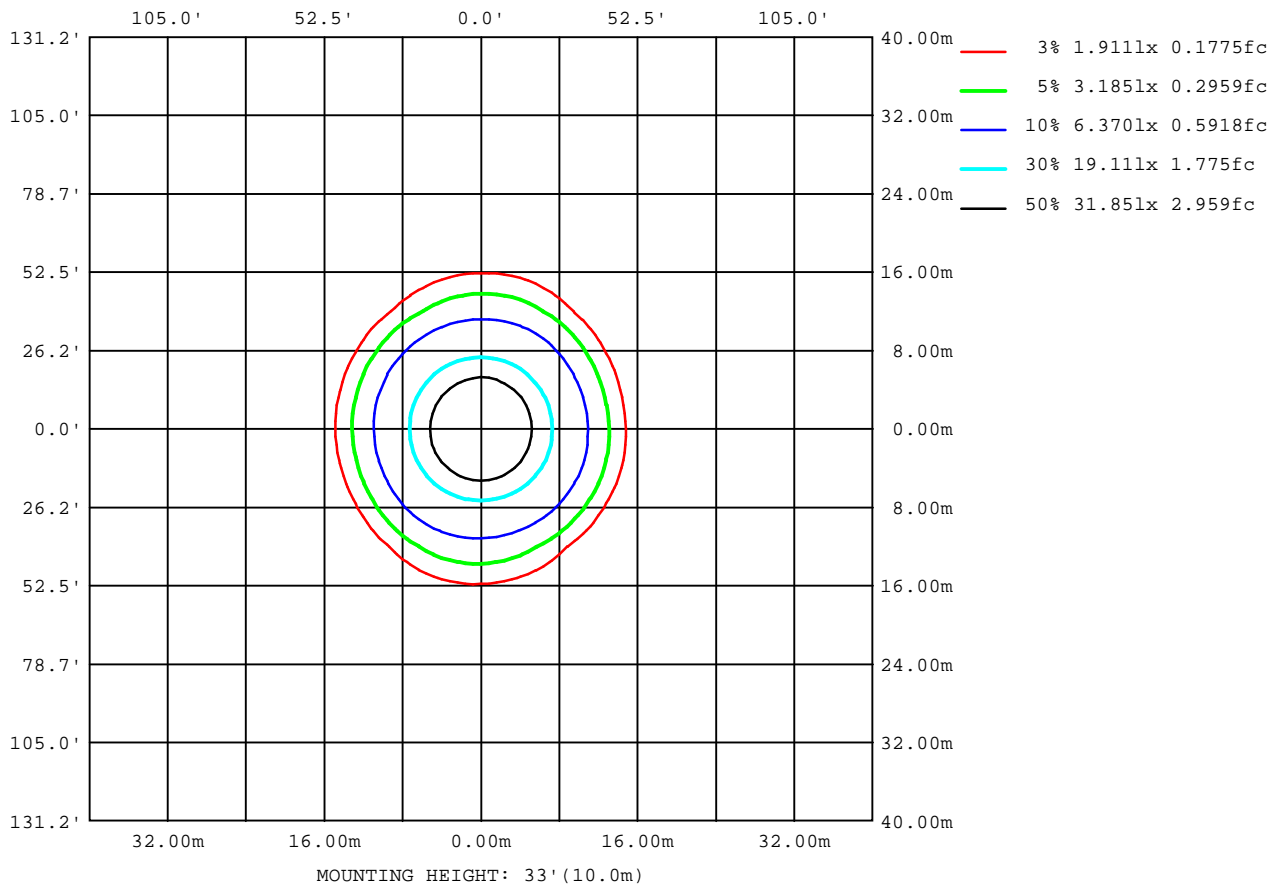


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Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2014-11-28

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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:0.8899A P:194.5W PF:0.9917 Lamp Flux:15130x1 lm		
NAME: STN-DIL 03 200W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 200W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

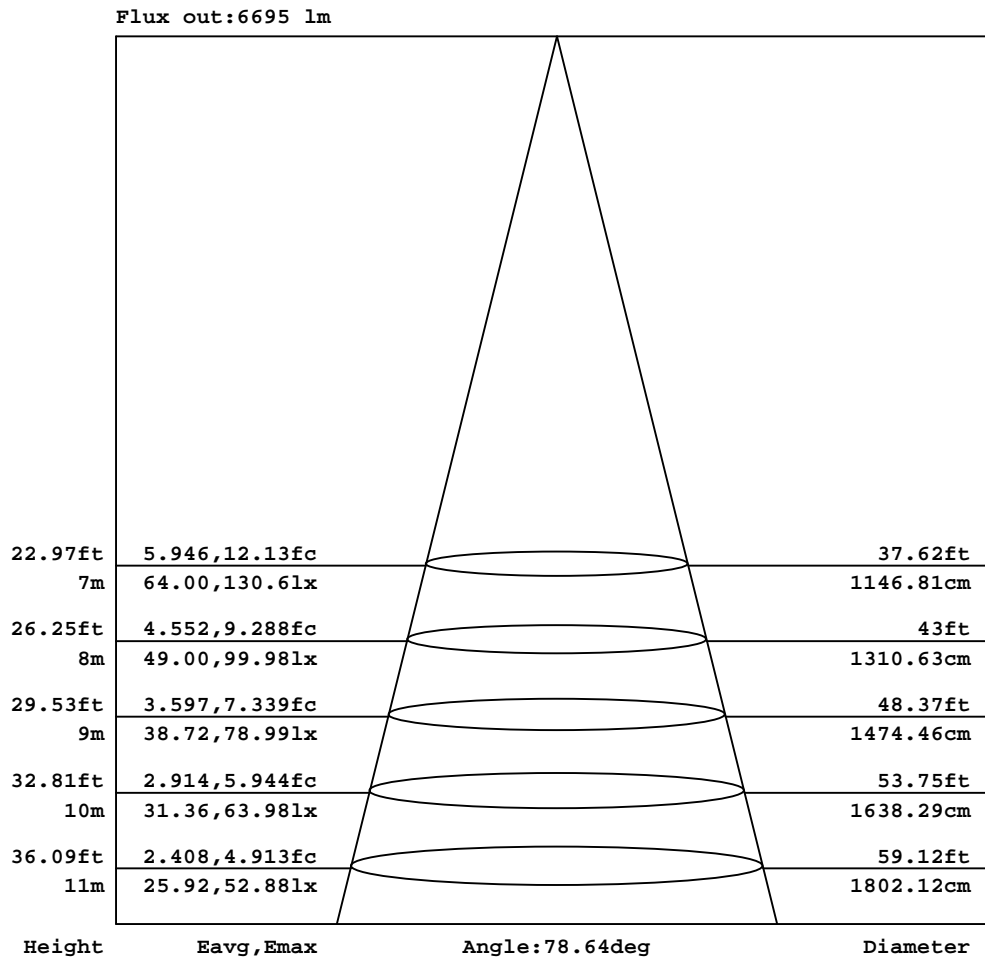


H(h) Range:-90 - 90DEG
H(h) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2014-11-28

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:0.8899A P:194.5W PF:0.9917 Lamp Flux:15130x1 lm		
NAME: STN-DIL 03 200W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 200W	DIM.:	SERIAL No.:
MFR.: Steckermann	SUR.:	PROTECTION ANGLE:

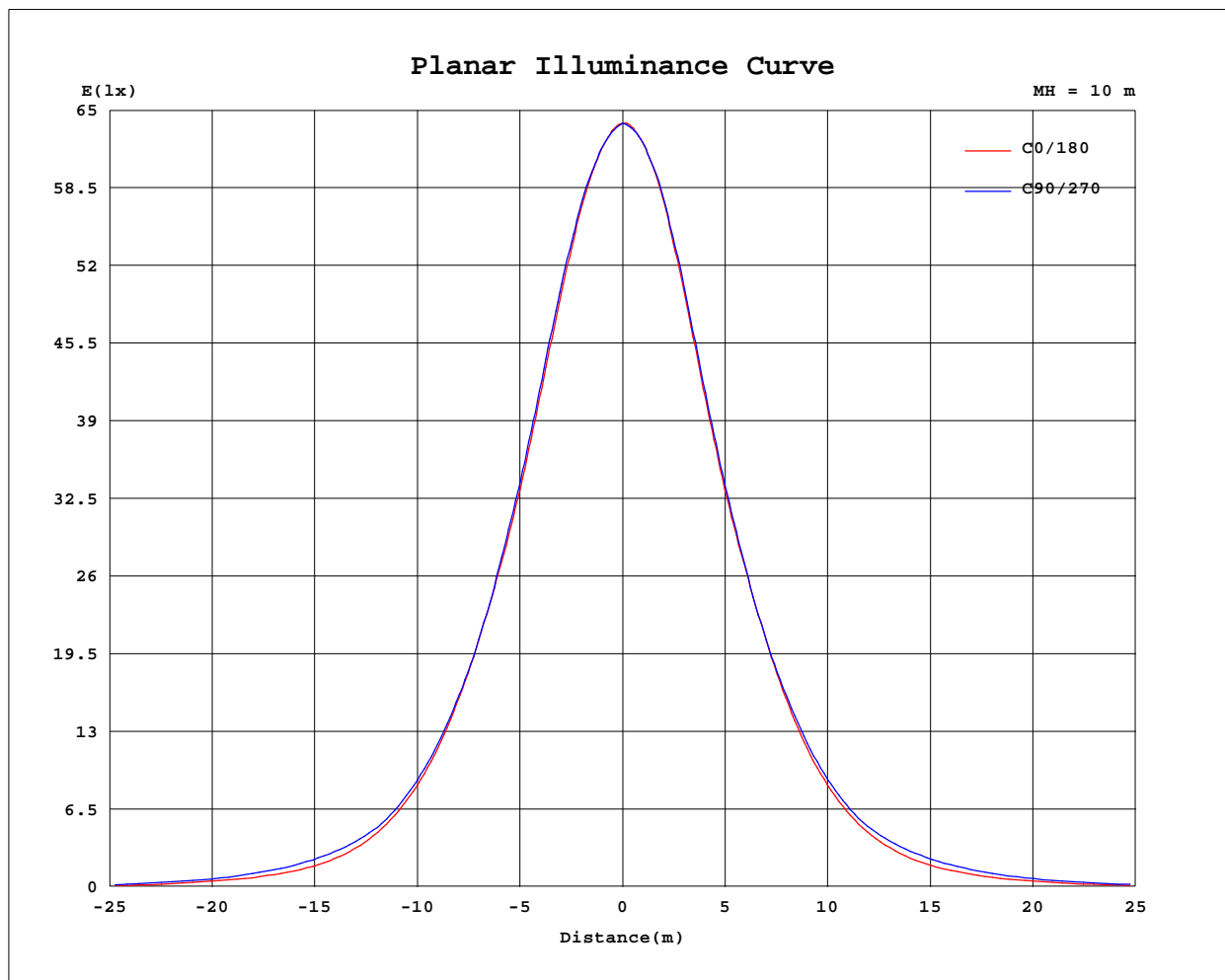


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(h) Range:-90 - 90DEG
H(h) Interval: 0.5DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2014-11-28

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: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-28

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:0.8899A P:194.5W PF:0.9917 Lamp Flux:15130x1 lm		
NAME: STN-DIL 03 200W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 200W	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	0.36	0.95	0.98	0.97	1.01	1.01	1.01	1.01	1.01	1.01	0.96	0.92	0.85	0.78	0.72	0.69	0.68	0.68	0.72
-85	0.36	0.95	1.32	1.94	2.98	4.20	5.62	7.11	8.77	10.3	12.6	17.3	23.3	29.5	35.5	40.0	43.9	46.6	47.1
-80	0.35	0.95	1.84	3.40	5.92	8.97	12.5	16.2	20.4	24.3	30.1	42.0	56.9	72.7	87.7	99.0	109	115	117
-75	0.35	0.95	2.18	4.37	7.89	12.2	17.1	22.3	28.1	33.7	41.8	58.4	79.3	101	122	138	152	161	163
-70	0.35	0.95	2.69	5.83	10.8	16.9	24.1	31.5	39.8	47.6	59.3	83.0	113	145	175	197	217	230	233
-65	0.35	1.12	3.55	8.35	15.6	24.1	49.0	83.3	123	161	205	265	331	399	460	508	543	563	564
-60	0.34	1.36	4.84	12.1	22.8	34.8	86.4	161	248	331	424	538	659	780	889	974	1033	1062	1062
-55	0.34	1.52	5.70	14.6	27.6	41.9	111	213	332	444	570	719	878	1034	1175	1285	1360	1395	1394
-50	0.34	1.76	6.99	18.4	34.8	52.6	149	291	457	614	788	992	1206	1415	1604	1751	1849	1894	1891
-45	0.33	1.83	7.97	21.4	39.6	84.7	218	391	576	772	1007	1279	1558	1818	2042	2219	2339	2399	2405
-40	0.31	1.92	9.45	25.8	46.8	133	321	541	755	1011	1334	1710	2085	2423	2701	2919	3073	3157	3176
-35	0.30	2.04	10.8	29.2	53.2	184	399	633	886	1207	1598	2026	2442	2812	3119	3362	3530	3626	3653
-30	0.29	2.21	12.8	34.3	62.7	261	515	770	1083	1501	1993	2500	2976	3396	3747	4026	4216	4330	4370
-25	0.28	2.24	14.1	36.8	79.8	297	567	852	1216	1684	2219	2764	3271	3704	4072	4380	4606	4748	4794
-20	0.27	2.29	16.1	40.6	105	352	643	974	1415	1959	2558	3160	3715	4165	4559	4910	5193	5376	5430
-15	0.27	2.45	18.0	42.9	127	387	690	1048	1525	2114	2748	3378	3940	4390	4827	5227	5535	5725	5773
-10	0.25	2.44	19.9	44.3	145	422	741	1129	1651	2282	2955	3612	4170	4651	5147	5593	5926	6107	6140
-5	0.25	2.63	21.6	45.3	156	443	768	1170	1708	2365	3050	3707	4261	4760	5279	5736	6068	6240	6276
0	0.24	2.69	22.1	45.1	157	448	780	1191	1745	2410	3103	3757	4306	4812	5346	5817	6160	6337	6398
5	0.25	3.97	22.2	45.2	157	447	779	1188	1737	2404	3092	3738	4272	4770	5295	5764	6119	6303	6356
10	0.25	4.37	21.3	43.9	141	421	748	1143	1673	2319	2989	3619	4143	4616	5103	5553	5908	6124	6190
15	0.26	4.47	21.0	43.1	131	399	719	1096	1602	2225	2874	3487	4009	4448	4890	5308	5642	5861	5941
20	0.26	4.00	19.4	40.7	102	348	648	996	1448	2011	2621	3199	3718	4135	4505	4846	5134	5328	5402
25	0.27	3.79	18.4	39.0	85.6	314	597	910	1316	1822	2391	2937	3434	3850	4206	4515	4756	4916	4978
30	0.28	3.48	16.9	36.3	60.7	263	520	782	1118	1540	2047	2544	3009	3422	3759	4018	4188	4297	4341
35	0.29	3.08	15.3	33.5	55.0	212	447	690	975	1337	1765	2204	2627	3006	3319	3565	3734	3841	3882
40	0.29	2.50	12.9	29.1	46.4	134	338	553	761	1032	1340	1694	2053	2381	2661	2886	3054	3155	3194
45	0.30	2.14	11.3	25.9	42.1	101	264	457	654	871	1124	1406	1696	1967	2204	2402	2550	2643	2681
50	0.32	1.60	9.05	21.1	35.6	50.5	152	314	493	630	800	975	1160	1345	1520	1675	1794	1875	1912
55	0.32	1.35	7.66	18.0	30.6	43.7	127	257	402	513	654	802	957	1112	1257	1384	1482	1549	1581
60	0.33	0.99	5.56	13.3	23.0	33.5	88.0	172	265	337	435	542	653	761	861	948	1015	1061	1083
65	0.33	0.74	4.16	10.2	18.0	26.7	62.3	116	174	220	289	369	451	527	597	657	703	736	751
70	0.34	0.37	2.07	5.55	10.5	16.5	23.7	30.7	37.8	44.7	70.2	110	147	177	201	220	236	248	253
75	0.34	0.37	1.72	4.51	8.44	13.3	19.1	24.6	30.3	35.8	56.2	87.8	118	142	161	176	189	199	202
80	0.34	0.36	1.21	2.95	5.40	8.44	12.1	15.6	19.1	22.6	35.3	55.0	73.8	88.7	101	110	118	124	127
85	0.35	0.35	0.86	1.91	3.38	5.20	7.39	9.49	11.6	13.7	21.4	33.2	44.5	53.4	60.5	66.4	71.0	74.7	76.2
90	0.35	0.34	0.34	0.34	0.34	0.34	0.39	0.39	0.39	0.43	0.44	0.44	0.44	0.44	0.44	0.44	0.43	0.43	0.43

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 Operators:
 Test Date:2014-11-28

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:0.8899A P:194.5W PF:0.9917 Lamp Flux:15130x1 lm		
NAME: STN-DIL 03 200W	TYPE:	WEIGHT:
SPEC.:STN-DIL 03 200W	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	0.73	0.77	0.82	0.87	0.94	1.01	1.10	1.16	1.27	1.34	1.39	1.42	1.49	1.53	1.58	1.59	1.49	0.54	
-85	45.9	43.6	40.1	35.9	31.1	24.9	17.8	12.5	11.0	9.63	8.18	6.71	5.22	3.85	2.81	2.09	1.48	0.53	
-80	114	108	98.9	88.5	76.3	60.6	42.8	29.5	25.6	22.0	18.4	14.6	10.8	7.33	4.64	2.84	1.47	0.51	
-75	159	151	138	124	106	84.5	59.5	40.8	35.3	30.3	25.2	19.9	14.5	9.65	5.86	3.34	1.46	0.50	
-70	227	215	197	176	152	120	84.5	57.8	49.9	42.8	35.3	27.9	20.1	13.1	7.70	4.09	1.44	0.48	
-65	552	525	486	438	381	314	246	192	154	125	84.5	48.6	27.4	18.3	10.5	5.04	1.69	0.48	
-60	1039	990	919	830	725	605	489	393	311	248	158	79.6	38.2	26.1	14.6	6.46	2.06	0.47	
-55	1364	1300	1208	1091	954	799	651	527	415	330	208	100	45.5	31.3	17.3	7.41	2.30	0.47	
-50	1851	1765	1641	1483	1298	1090	894	727	572	452	281	131	56.3	39.1	21.5	8.83	2.67	0.46	
-45	2364	2270	2129	1946	1724	1470	1206	961	739	560	379	203	81.5	44.4	25.3	10.1	2.94	0.46	
-40	3133	3028	2862	2639	2365	2039	1674	1312	988	722	526	310	119	52.3	31.1	11.9	3.34	0.45	
-35	3613	3508	3336	3091	2785	2424	2017	1599	1204	870	613	385	167	57.2	34.5	13.4	3.28	0.45	
-30	4334	4228	4046	3770	3416	3002	2533	2030	1528	1093	744	496	240	64.7	39.7	15.6	3.19	0.45	
-25	4745	4608	4390	4091	3727	3304	2810	2275	1731	1236	839	551	279	80.8	42.0	17.7	3.33	0.45	
-20	5361	5179	4906	4574	4193	3756	3226	2642	2035	1450	980	634	339	105	45.5	20.9	3.55	0.44	
-15	5686	5483	5185	4813	4392	3949	3406	2803	2169	1550	1050	673	366	120	46.5	22.4	3.54	0.44	
-10	6052	5848	5528	5125	4651	4172	3631	3001	2334	1674	1137	732	408	145	48.2	24.6	3.91	0.43	
-5	6186	5985	5664	5245	4746	4248	3705	3063	2380	1710	1159	747	417	150	48.5	24.6	4.34	0.44	
0	6297	6100	5776	5340	4817	4303	3768	3112	2415	1732	1174	764	433	158	48.9	25.0	5.79	0.44	
5	6273	6076	5740	5293	4771	4263	3725	3068	2373	1700	1153	754	424	151	48.1	24.4	5.77	0.44	
10	6130	5922	5579	5136	4640	4150	3605	2956	2281	1628	1107	730	411	141	47.3	24.0	6.06	0.44	
15	5879	5670	5340	4923	4464	3999	3440	2804	2161	1541	1052	692	381	125	45.7	22.9	5.73	0.44	
20	5347	5164	4889	4545	4146	3691	3143	2550	1950	1396	962	635	335	104	43.5	21.7	5.56	0.44	
25	4929	4772	4531	4217	3836	3394	2876	2320	1765	1272	881	579	294	86.6	41.2	20.3	5.07	0.44	
30	4301	4183	3995	3724	3370	2948	2475	1975	1488	1086	759	496	232	60.8	37.8	18.1	4.33	0.44	
35	3847	3739	3563	3312	2987	2600	2167	1721	1305	958	674	422	185	55.9	35.0	16.6	3.92	0.43	
40	3166	3073	2915	2693	2413	2079	1705	1340	1029	765	545	310	115	48.5	30.6	14.5	3.30	0.41	
45	2663	2588	2453	2260	2018	1734	1423	1122	864	642	438	235	89.3	43.5	27.2	12.7	2.75	0.40	
50	1909	1860	1761	1611	1425	1216	999	793	616	456	278	123	51.4	36.1	22.0	10.1	1.93	0.39	
55	1577	1535	1452	1327	1172	998	817	647	502	372	228	103	44.4	31.1	18.9	8.62	1.62	0.39	
60	1079	1048	989	901	793	671	545	426	330	247	154	72.9	34.0	23.7	14.3	6.38	1.16	0.39	
65	746	723	680	617	540	453	363	280	216	163	104	53.0	27.0	18.7	11.2	4.89	0.85	0.38	
70	248	236	217	192	161	126	90.5	59.3	44.1	37.2	29.8	23.0	16.6	11.3	6.56	2.65	0.39	0.38	
75	199	189	174	153	129	101	72.5	47.5	35.3	29.8	23.9	18.5	13.4	9.10	5.32	2.19	0.38	0.38	
80	124	118	109	96.0	80.9	63.5	45.5	29.8	22.2	18.8	15.1	11.7	8.50	5.83	3.46	1.51	0.38	0.38	
85	74.8	71.0	65.4	57.8	48.7	38.3	27.5	18.1	13.5	11.4	9.24	7.20	5.26	3.65	2.22	1.05	0.37	0.37	
90	0.43	0.43	0.44	0.44	0.43	0.44	0.44	0.44	0.44	0.43	0.42	0.40	0.39	0.38	0.36	0.36	0.36	0.37	

H(h) Range:-90 - 90DEG
 H(h) Interval: 0.5DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2014-11-28

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: