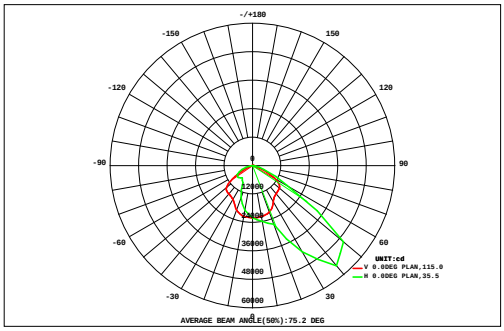
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		791.1 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	136.8V x 137.9H
	At 50% of Imax	35.4V x 115.0H
	At 90% of Imax	14.5V x 44.2H
Beam Flux	Total	999.3 lumens per klm.
	To 10% of Imax	926.2 lumens per klm.
	To 50% of Imax	354.0 lumens per klm.
	To 90% of Imax	66.4 lumens per klm.
	Upward LOR	0.0 %
	Downward LOR	99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:2.311A P:497.9W PF:0.9752 Freq:49.90Hz Lamp Flux:69788.6x1 lm		
NAME: ITSP4500AS4000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:140.18lm/W	
MODEL		Imax(cd)	55207
NOMINAL POWER(W)	500	AVAILABILITY(%)	93.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	65233
NOMINAL FLUX(lm)	69788.6	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	69789
TEST VOLTAGE(V)	221.0	q @50%(H,V)	115,35DEG

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	90	F t	F a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.62	2.19	4.69	8.96	17.6	35.8	63.3	81.7	82.2	82.8	85.9	72.4	45.1	22.6	11.0	5.64	2.59	0.71	626	0.00
70	0.57	2.58	7.18	16.9	38.7	80.9	134	172	189	192	179	139	82.9	40.2	18.8	8.42	3.19	0.69	1306	696
60	0.61	3.48	11.0	26.9	54.8	100	155	207	240	243	209	150	92.6	52.3	27.7	12.7	4.33	0.77	1592	1088
50	0.63	4.38	15.1	35.2	63.2	106	153	199	227	224	190	145	103	65.1	36.3	17.5	5.50	0.82	1589	989
40	0.63	5.25	19.8	43.7	86.3	143	186	211	220	219	208	185	146	96.7	52.4	22.6	6.57	0.84	1852	1436
30	0.65	6.09	24.9	72.9	151	217	259	288	318	326	306	269	225	164	93.0	36.4	7.88	0.86	2767	2579
-30	0.73	7.04	38.0	138	236	301	357	441	503	507	459	390	316	246	162	58.8	9.26	0.89	4169	4080
-40	0.78	7.89	55.3	188	295	366	467	583	626	629	592	493	382	305	212	74.9	10.1	0.91	5288	5226
-50	0.81	8.27	66.2	217	345	426	542	648	694	698	657	557	441	361	244	82.8	10.2	0.94	5999	5947
-60	0.82	7.90	67.1	228	387	499	621	716	758	756	717	634	527	425	263	80.0	9.48	0.99	6696	6646
-70	0.81	7.22	59.6	212	413	605	794	928	983	986	957	856	682	475	241	64.7	8.45	1.03	8274	8217
-80	0.78	6.45	43.3	164	380	678	1020	1316	1456	1479	1382	1126	765	437	179	44.7	7.54	1.04	10486	10411
-90	0.75	5.63	28.2	106	290	591	983	1368	1610	1643	1439	1045	633	321	111	28.3	6.55	1.02	10210	10105
	0.72	4.69	18.0	61.7	177	371	618	890	1091	1085	882	602	375	178	59.0	17.8	5.50	0.98	6438	6276
	0.71	3.73	11.2	27.1	69.4	143	212	257	258	248	227	194	135	63.4	25.5	11.6	4.42	0.94	1892	1538
	0.71	2.96	6.93	13.5	23.1	37.0	58.7	63.7	62.7	63.2	61.5	56.5	36.8	21.6	13.6	7.93	3.55	0.91	535	0.00
	0.42	1.44	2.80	4.59	6.78	7.56	5.65	4.95	5.37	5.23	5.00	4.22	4.21	4.31	3.58	2.36	1.29	0.37	70.1	0.00
HORIZONTAL(DEG)																				
F t	11.8	87.2	479	1564	3034	4706	6628	8374	9324	9384	8557	6918	4992	3278	1753	577	106	14.7	69789	---
F a	0.00	0.00	252	1225	2672	4276	6233	8131	9114	9180	8322	6534	4581	2925	1452	336	0.00	0.00	---	65233

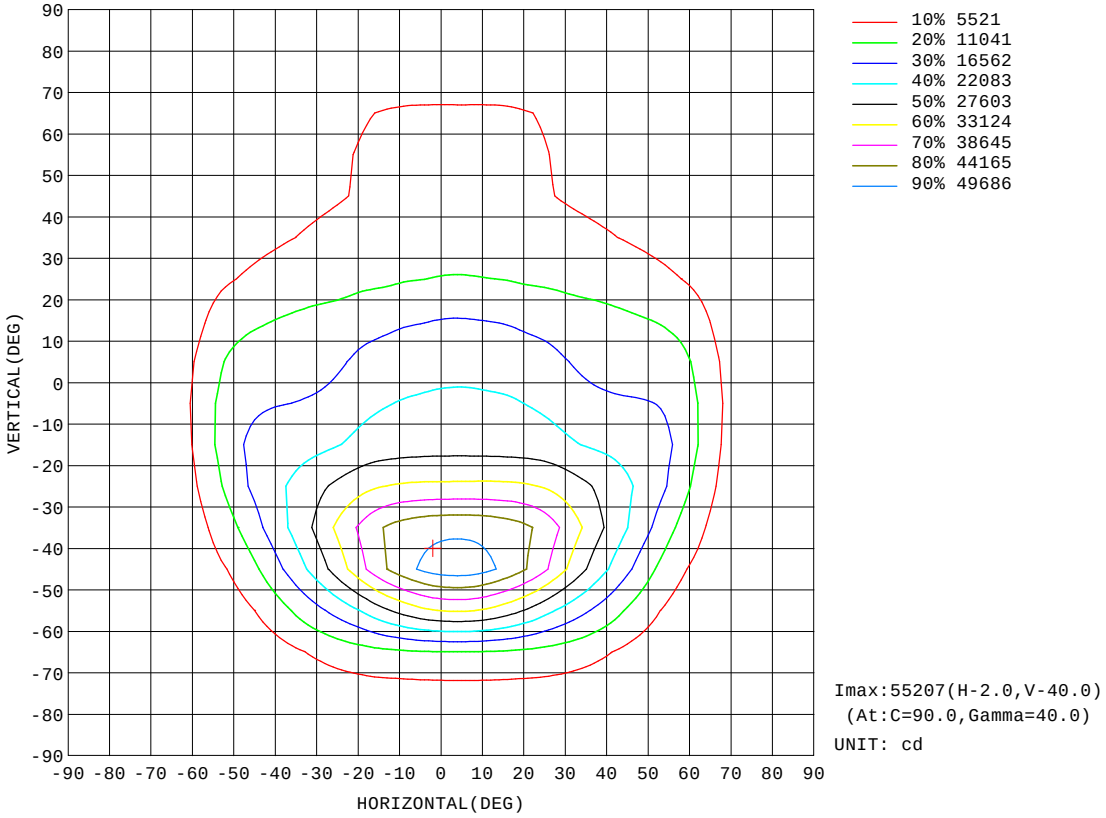
one-half-peak spread: U:16.6,D:19.2 , L:57.8,R:57.5 **NEMA Beam Type: Type 7**

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:19 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.9V I:2.311A P:497.9W PF:0.9752 Freq:49.90Hz Lamp Flux:69788.6x1 lm		
NAME: ITSP4500AS4000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

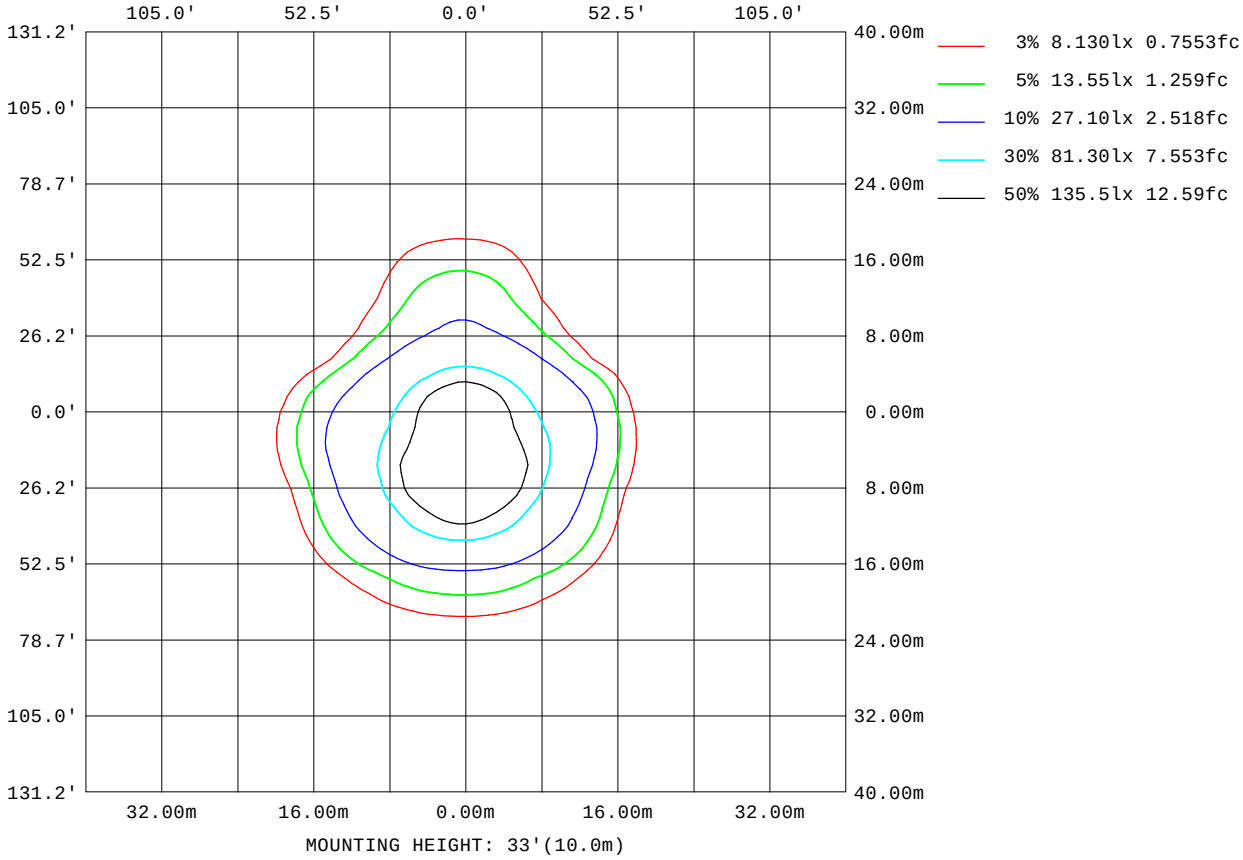


H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:19 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

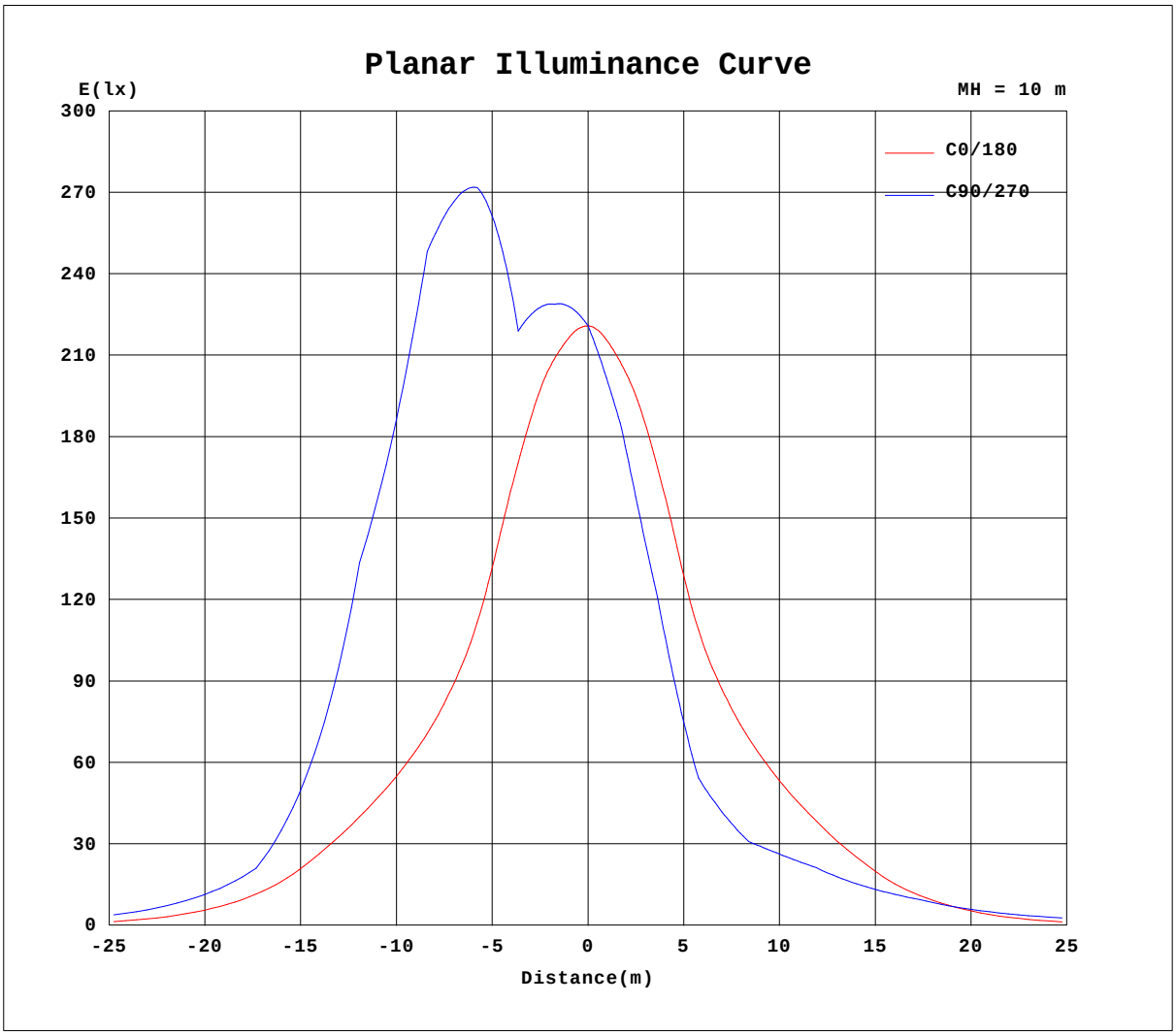
Test:U:220.9V I:2.311A P:497.9W PF:0.9752 Freq:49.90Hz Lamp Flux:69788.6x1 lm		
NAME: ITSP4500AS4000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:19 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



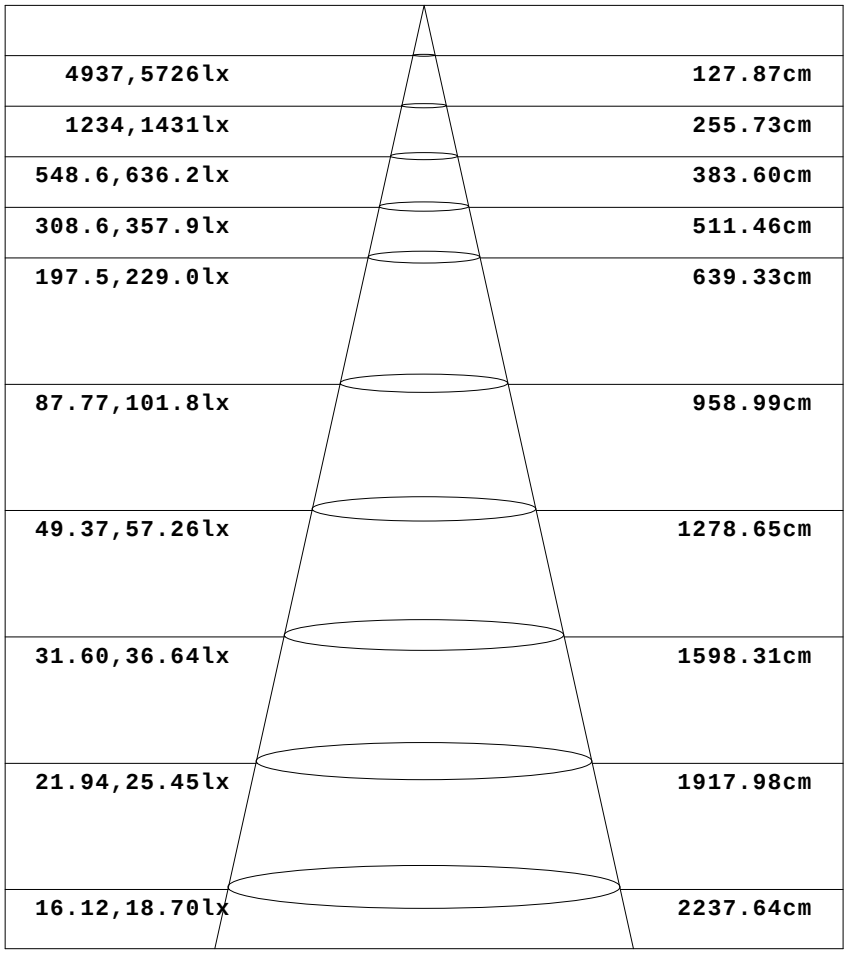
H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:19 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.9V I:2.311A P:497.9W PF:0.9752 Freq:49.90Hz Lamp Flux:69788.6x1 lm		
NAME: ITSP4500AS4000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:6550 lm



Height Eavg,Emax Angle:35.45deg Diameter

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

H(b) Range:-90 - 90DEG	V(B) Range:-80 - 80DEG
H(b) Interval: 1.0DEG	V(B) Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Temperature:25.3DEG	Humidity:65.0%
Operators:DAMIN	Test Distance:11.900m [K=1.0000]
Test Date:19 February 2023	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:2.311A P:497.9W PF:0.9752 Freq:49.90Hz Lamp Flux:69788.6x1 lm		
NAME: ITSP4500AS4000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1 UNIT: ×10cd

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	23.7	27.8	31.0	34.6	38.8	44.0	50.0	57.0	65.6	75.3	84.2	91.9	98.2	103	107	110	113	114	115
-75	20.2	22.0	26.6	31.4	37.5	45.3	55.3	66.6	80.5	98.9	122	152	190	235	276	294	292	297	305
-70	21.8	27.4	34.1	43.2	55.6	70.9	88.3	110	141	180	234	305	389	462	479	475	485	498	502
-65	18.0	20.0	25.9	34.5	47.3	65.3	89.0	117	157	233	335	484	630	766	868	964	1024	1070	1090
-60	19.8	27.5	39.3	57.7	83.8	117	158	229	361	544	794	1009	1188	1311	1479	1595	1666	1686	1691
-55	16.4	18.3	25.7	38.9	60.5	92.4	138	216	346	551	843	1190	1521	1846	2186	2565	2902	3173	3329
-50	18.4	28.2	45.6	74.3	116	182	318	528	846	1275	1726	2157	2637	3204	3799	4331	4766	5002	5013
-45	15.2	17.0	26.0	43.8	73.8	121	202	391	642	1010	1477	1955	2454	3017	3626	4218	4681	5025	5236
-40	17.2	29.6	51.8	88.8	152	273	564	882	1349	1873	2377	2963	3635	4297	4845	5184	5397	5509	5510
-35	14.1	15.9	26.8	48.5	84.6	149	301	644	1017	1465	1934	2386	2882	3412	3912	4347	4616	4763	4837
-30	16.3	30.9	56.9	99.5	185	441	875	1323	1771	2178	2580	3014	3394	3721	3982	4118	4173	4179	4190
-25	13.2	15.1	27.5	52.5	92.6	178	449	905	1370	1768	2071	2338	2615	2871	3100	3274	3366	3403	3409
-20	15.7	32.1	61.4	108	231	635	1115	1595	1900	2073	2205	2324	2445	2562	2614	2634	2640	2640	2640
-15	12.5	14.4	27.6	55.2	98.9	207	567	1063	1504	1770	1894	1981	2066	2183	2331	2424	2470	2497	2515
-10	14.9	32.0	63.4	115	275	699	1197	1554	1702	1755	1790	1846	1981	2152	2256	2318	2364	2391	2393
-5	12.1	13.6	27.0	56.4	103	228	596	1052	1417	1579	1633	1664	1716	1837	2024	2152	2224	2263	2294
0	13.9	31.4	64.8	119	290	680	1077	1372	1486	1523	1555	1618	1764	1961	2086	2149	2176	2203	2207
5	11.7	12.7	25.8	56.0	104	222	520	917	1214	1338	1388	1427	1480	1576	1769	1909	1994	2025	2052
10	12.8	29.5	63.3	116	249	516	907	1123	1214	1268	1319	1367	1451	1651	1778	1856	1885	1909	1913
15	11.4	11.9	24.0	53.5	98.8	187	367	675	916	1033	1110	1171	1219	1263	1374	1468	1566	1621	1669
20	12.1	27.5	59.3	105	193	315	575	764	887	978	1045	1086	1106	1146	1194	1310	1376	1442	1444
25	11.8	12.1	22.6	48.7	88.4	148	247	379	536	661	771	852	907	938	970	999	1051	1092	1132
30	12.9	25.8	52.0	91.5	141	218	255	358	484	600	685	744	782	806	816	817	822	832	834
35	13.4	13.7	22.4	43.7	76.7	118	179	224	285	370	465	553	619	667	702	726	739	749	758
40	15.2	25.7	46.7	77.6	115	166	207	243	292	369	450	517	568	609	643	665	680	686	686
45	15.6	16.1	22.8	39.2	64.0	94.9	133	181	212	257	319	393	460	521	579	637	686	722	740
50	17.6	25.1	40.4	62.0	88.6	121	167	197	243	300	363	429	498	571	652	724	773	798	794
55	17.4	18.1	22.7	34.0	50.4	71.3	96.5	131	165	210	267	338	414	493	571	647	713	756	779
60	19.0	23.9	33.4	46.5	63.5	83.6	112	149	197	262	343	431	520	601	672	724	752	764	762
65	18.2	18.8	21.6	28.0	37.1	49.1	63.7	83.1	111	148	201	271	351	436	508	561	597	614	618
70	19.0	21.4	25.8	32.0	40.1	50.6	64.7	85.3	118	166	231	306	384	439	467	480	479	473	474
75	18.0	18.4	19.5	22.1	25.8	30.6	36.8	44.9	56.4	74.4	101	138	181	231	271	293	300	295	286
80	17.9	18.6	19.8	21.4	23.4	25.9	29.1	33.5	40.0	48.8	61.1	76.7	97.1	115	125	121	108	98.1	101
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:19 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:2.311A P:497.9W PF:0.9752 Freq:49.90Hz Lamp Flux:69788.6x1 lm		
NAME: ITSP4500AS4000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2 UNIT: ×10cd

H(DEG) / V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	115	115	113	111	108	103	96.1	87.9	78.4	69.4	61.8	55.1	48.7	43.4	38.9	34.7	29.6	24.9
-75	309	305	301	300	301	274	232	191	154	125	103	86.3	73.3	61.5	51.2	43.2	36.6	30.5
-70	493	487	488	485	425	345	269	208	162	129	105	86.6	69.8	55.4	44.7	36.1	29.1	24.0
-65	1098	1086	1057	1004	929	843	730	592	434	302	211	148	115	89.0	66.3	50.1	38.3	29.8
-60	1672	1608	1497	1336	1221	1062	853	600	401	261	175	133	98.4	69.8	50.0	36.8	27.7	23.1
-55	3359	3271	3050	2751	2392	2041	1715	1403	1049	719	458	290	183	122	84.0	57.4	39.9	28.6
-50	4800	4384	3873	3296	2727	2243	1817	1357	919	573	354	202	129	86.1	56.3	37.7	26.6	22.2
-45	5272	5150	4859	4476	3962	3352	2769	2249	1759	1265	826	523	291	161	101	64.4	41.3	27.4
-40	5405	5199	4897	4389	3738	3074	2482	1966	1420	935	598	305	164	99.3	61.2	38.3	25.1	21.2
-35	4853	4819	4714	4535	4203	3728	3213	2696	2219	1742	1249	824	467	208	115	69.6	42.2	25.7
-30	4205	4173	4068	3843	3519	3142	2712	2287	1864	1380	909	493	203	108	64.7	38.2	22.9	19.7
-25	3414	3422	3414	3373	3267	3071	2832	2570	2288	1994	1613	1128	678	273	126	72.3	41.8	23.2
-20	2641	2645	2648	2626	2532	2424	2316	2176	1991	1666	1158	680	251	115	65.3	36.4	20.0	17.7
-15	2517	2508	2492	2469	2422	2306	2178	2096	2019	1915	1715	1299	820	345	134	73.0	40.0	20.2
-10	2369	2331	2275	2184	2025	1892	1846	1827	1786	1630	1251	759	304	119	65.1	33.9	16.9	15.6
-5	2301	2285	2259	2207	2113	1952	1797	1728	1699	1673	1574	1275	830	382	139	72.9	37.8	17.4
0	2191	2173	2107	1989	1807	1661	1593	1563	1539	1438	1132	715	314	121	64.2	31.6	14.4	13.7
5	2061	2048	2032	1973	1866	1687	1552	1486	1443	1410	1337	1123	735	354	137	72.4	36.1	15.4
10	1900	1878	1802	1684	1499	1410	1358	1311	1263	1182	975	588	271	118	63.5	30.1	13.1	12.9
15	1682	1654	1621	1536	1456	1345	1278	1234	1179	1116	1028	866	541	282	128	70.9	34.6	14.5
20	1397	1339	1234	1190	1154	1130	1089	1024	940	826	647	364	210	109	61.3	28.8	12.9	12.9
25	1142	1118	1092	1040	1011	981	952	910	843	750	631	491	318	203	113	66.6	33.4	14.7
30	829	827	830	821	795	761	708	629	516	384	266	222	148	96.0	56.6	28.5	14.1	13.7
35	761	755	747	737	719	685	644	589	514	422	332	248	205	145	96.9	59.8	32.3	16.3
40	678	662	639	604	560	508	443	365	291	245	207	171	118	81.5	50.3	28.1	16.4	15.7
45	743	725	690	640	582	522	463	402	336	272	226	191	156	111	79.4	51.8	31.1	18.5
50	761	700	620	535	459	394	335	281	232	191	164	120	90.5	65.3	43.7	27.8	19.1	18.0
55	781	760	719	653	572	488	407	334	268	215	173	143	108	82.2	60.9	42.9	29.0	20.4
60	746	715	655	575	484	391	305	232	179	142	109	83.8	65.0	48.7	35.7	25.9	20.6	19.5
65	618	616	605	572	521	448	359	277	206	153	118	91.7	71.0	56.1	43.5	33.3	25.6	20.8
70	483	485	471	440	377	294	218	154	111	82.6	64.4	51.5	41.7	33.8	27.5	22.8	20.4	19.8
75	286	296	306	303	286	249	197	149	109	80.4	61.7	49.6	41.0	34.5	29.2	24.9	21.8	19.8
80	114	128	131	120	101	79.7	63.3	50.3	41.3	35.1	30.9	27.7	24.9	22.6	20.9	19.7	18.9	18.7
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(b) Range:-90 - 90DEG
H(b) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:19 February 2023

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:11.900m [K=1.0000]
Remarks: