

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	290.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	162.6V x 166.3H
	At 50% of Imax	145.3V x 142.8H
	At 90% of Imax	132.6V x 49.5H

Beam Flux	Total	979.4 lumens per klm.
	To 10% of Imax	959.7 lumens per klm.
	To 50% of Imax	856.1 lumens per klm.
	To 90% of Imax	72.5 lumens per klm.

Upward LOR	0.7 %
Downward LOR	97.3 %

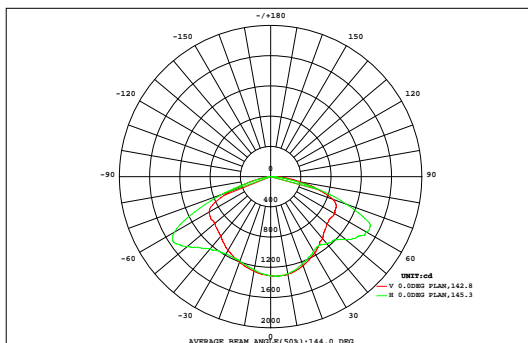
Luminaire Efficiency(Light Output Ratio)	97.9 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:8.835m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: TP421-W40-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:133.68lm/W	
MODEL	TP421-W40-3000K	Imax(cd)	1552
NOMINAL POWER(W)	40	AVAILABILITY(%)	96.0
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	5131
NOMINAL FLUX(lm)	5200.5	LOR(%)	97.9
LAMPS INSIDE	1	TOTAL FLUX(lm)	5201
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	143,145DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.04	0.14	0.31	0.67	1.13	1.64	2.23	2.89	3.48	3.58	3.16	2.64	2.01	1.34	0.76	0.57	0.46	0.18	27.2	6.89
90	0.04	0.28	1.00	2.40	4.28	6.38	9.52	14.2	18.5	18.9	15.3	10.8	6.81	3.98	2.15	1.44	0.85	0.23	117	108
80	0.05	0.56	2.34	5.78	10.4	16.9	25.0	33.2	39.3	40.3	36.3	29.4	19.1	9.77	4.24	2.63	1.36	0.30	277	275
70	0.07	0.95	4.08	9.54	17.9	27.1	34.3	38.7	41.4	42.1	40.6	37.6	29.0	16.9	7.58	4.30	1.96	0.37	354	353
60	0.10	1.41	5.87	13.4	21.9	27.9	31.5	34.0	35.9	36.9	36.9	35.4	30.8	21.9	11.5	6.40	2.64	0.45	355	354
50	0.13	1.87	7.62	16.0	21.5	25.3	29.1	32.0	33.8	34.7	34.7	32.7	29.6	24.3	15.3	8.44	3.35	0.53	351	351
40	0.15	2.26	9.05	16.9	20.8	24.7	29.3	33.5	35.7	36.2	35.1	32.0	28.5	23.9	17.4	10.1	4.03	0.59	360	360
30	0.17	2.54	9.94	16.9	21.0	25.6	30.9	35.4	38.2	38.5	35.9	32.1	27.9	23.1	17.7	11.2	4.63	0.65	372	372
20	0.17	2.68	10.3	16.8	21.3	26.6	31.9	36.4	39.4	39.6	36.8	33.0	27.8	22.3	17.2	11.9	5.09	0.69	380	380
10	0.18	2.70	10.4	17.1	21.8	27.1	32.2	36.5	39.0	39.1	37.2	33.0	27.6	22.0	17.1	12.2	5.19	0.70	381	381
0	0.18	2.59	10.2	17.8	22.5	27.2	32.1	35.7	37.3	37.1	35.5	31.9	27.1	22.2	17.5	12.1	4.91	0.67	374	374
-10	0.17	2.32	9.47	18.3	23.5	27.5	32.1	35.4	36.1	35.6	34.0	31.1	26.8	22.6	17.8	11.6	4.47	0.62	369	369
-20	0.15	1.93	8.12	17.6	24.8	29.8	33.7	36.2	36.8	36.3	34.6	31.9	28.2	23.2	17.7	10.5	3.89	0.56	376	375
-30	0.12	1.50	6.32	14.8	24.4	32.1	37.8	40.0	40.6	39.9	38.0	35.2	30.3	23.6	16.1	8.75	3.20	0.48	393	393
-40	0.09	1.10	4.33	10.5	17.9	26.7	35.7	42.0	45.2	44.8	41.6	36.4	28.5	19.8	12.4	6.58	2.46	0.41	377	376
-50	0.07	0.75	2.70	5.96	9.61	13.9	19.3	26.4	31.8	32.6	28.7	22.7	16.7	11.8	7.88	4.41	1.73	0.33	237	236
-60	0.06	0.44	1.55	2.97	3.90	4.54	5.54	7.62	9.40	9.79	8.69	7.00	6.01	5.29	4.07	2.46	1.10	0.26	80.7	68.0
-70	0.05	0.25	0.67	1.11	1.23	1.14	1.10	1.24	1.31	1.40	1.49	1.46	1.56	1.63	1.44	1.07	0.63	0.20	19.0	0.00
-80	0.05	0.25	0.67	1.11	1.23	1.14	1.10	1.24	1.31	1.40	1.49	1.46	1.56	1.63	1.44	1.07	0.63	0.20	19.0	0.00
-90	0.05	0.25	0.67	1.11	1.23	1.14	1.10	1.24	1.31	1.40	1.49	1.46	1.56	1.63	1.44	1.07	0.63	0.20	19.0	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.00	26.3	104	205	290	372	453	521	563	568	535	476	394	299	206	127	51.9	8.22	5202	---
Φ a	0.00	20.7	100	201	285	368	449	517	560	564	530	472	390	295	202	123	48.9	5.69	---	5131

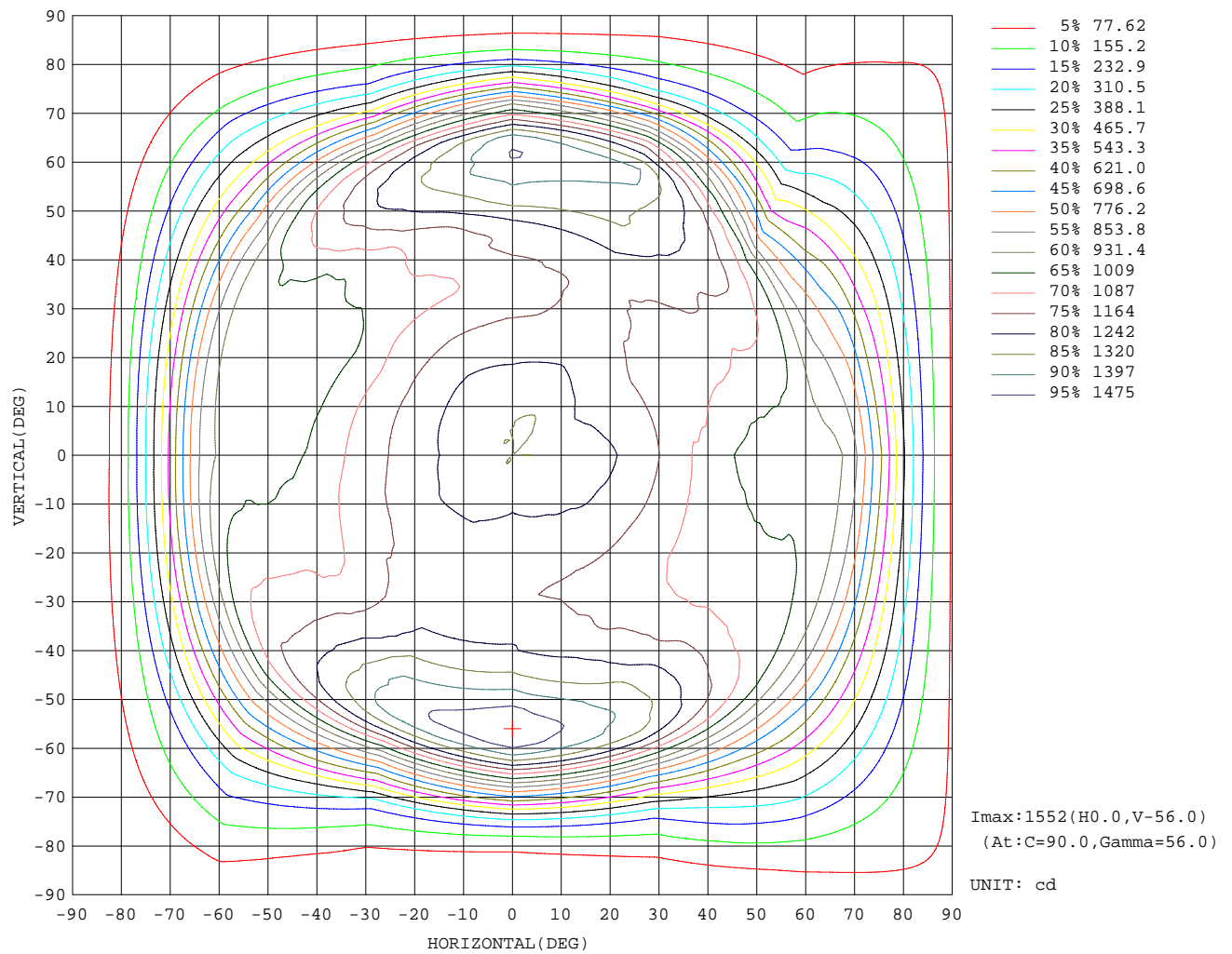
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

NEMA Beam Type: Type 7

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:8.835m [K=1.0000]
Remarks:

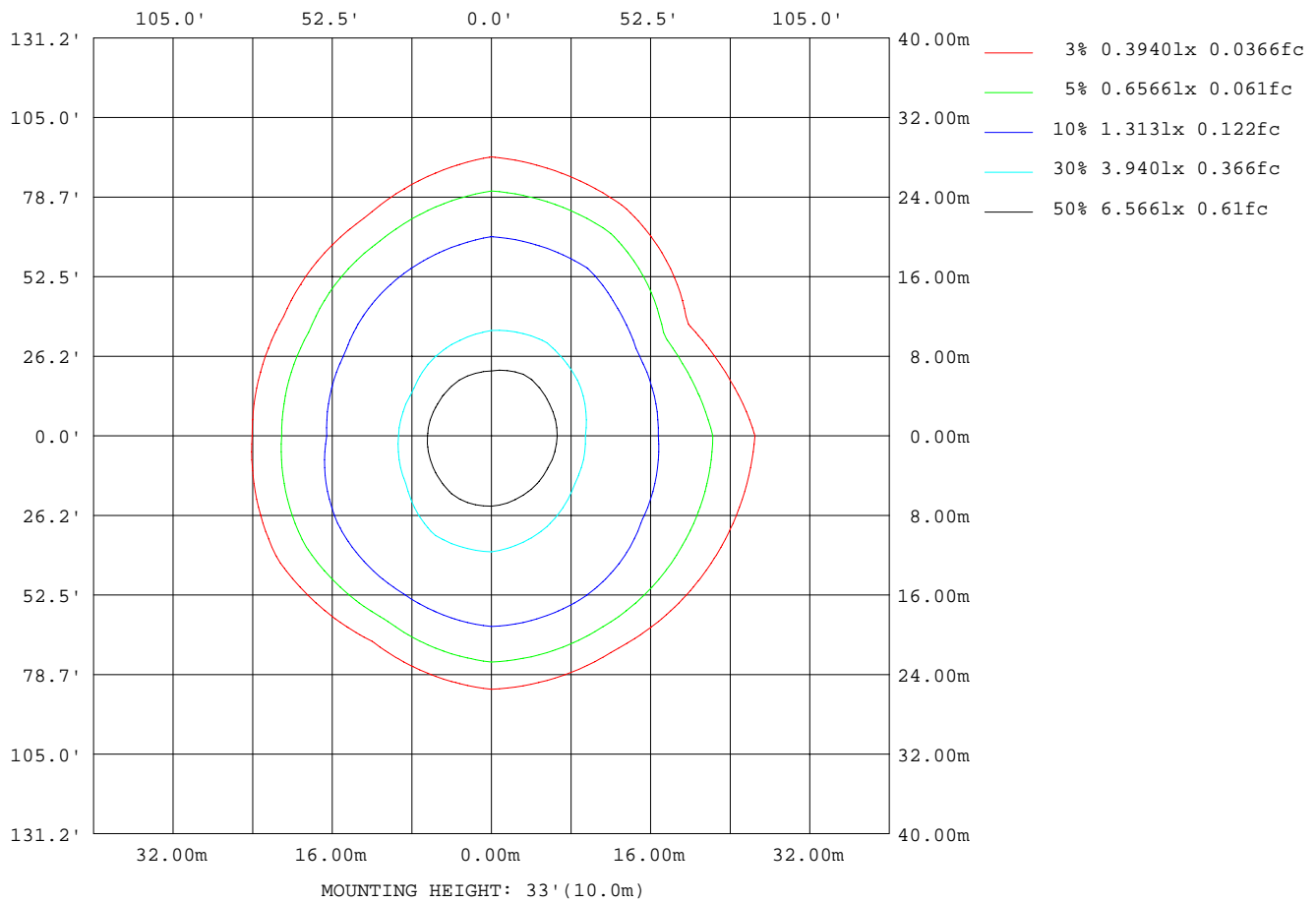
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
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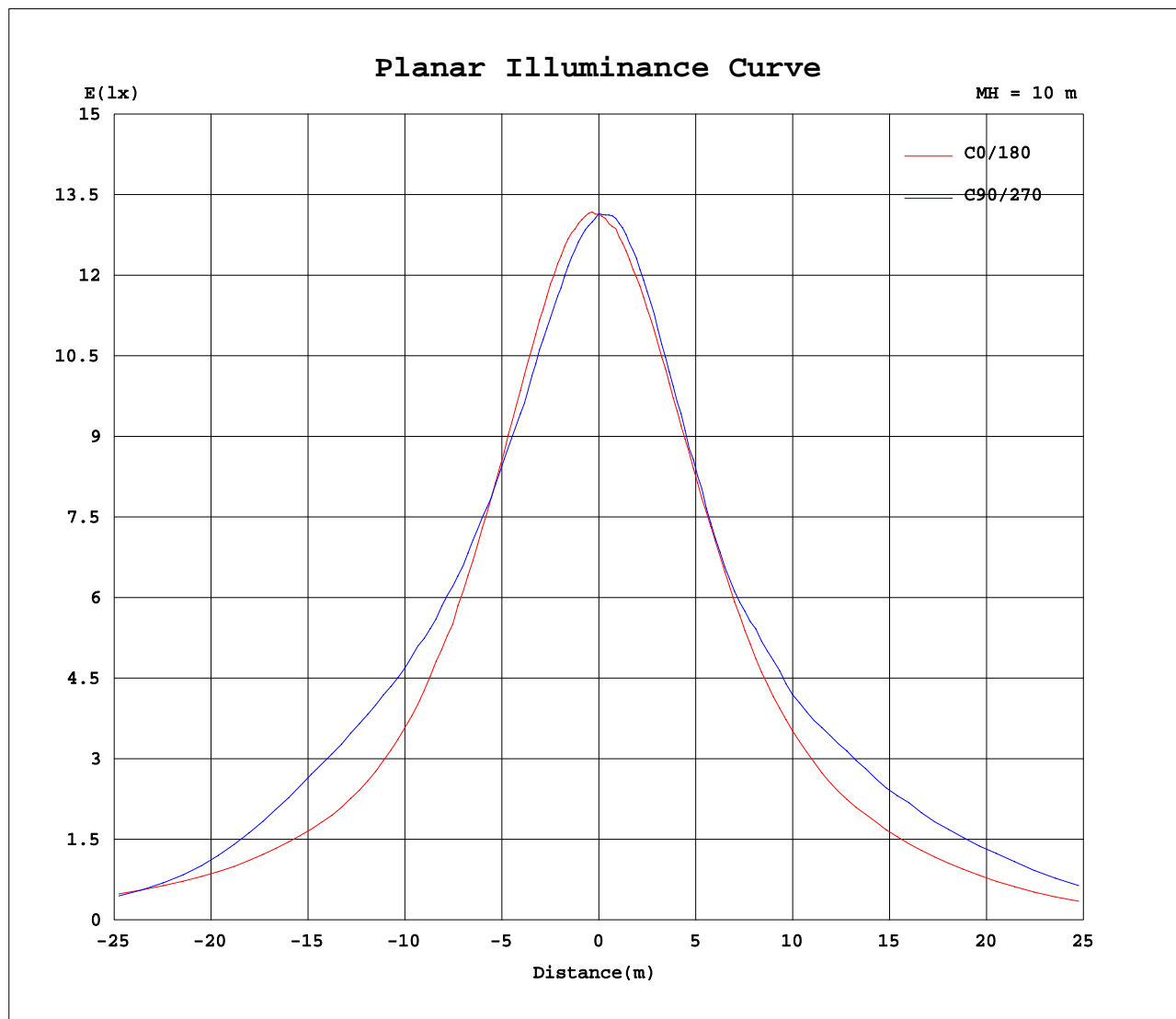
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
Test Date: 2023-11-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 8.835m [K=1.0000]
Remarks:

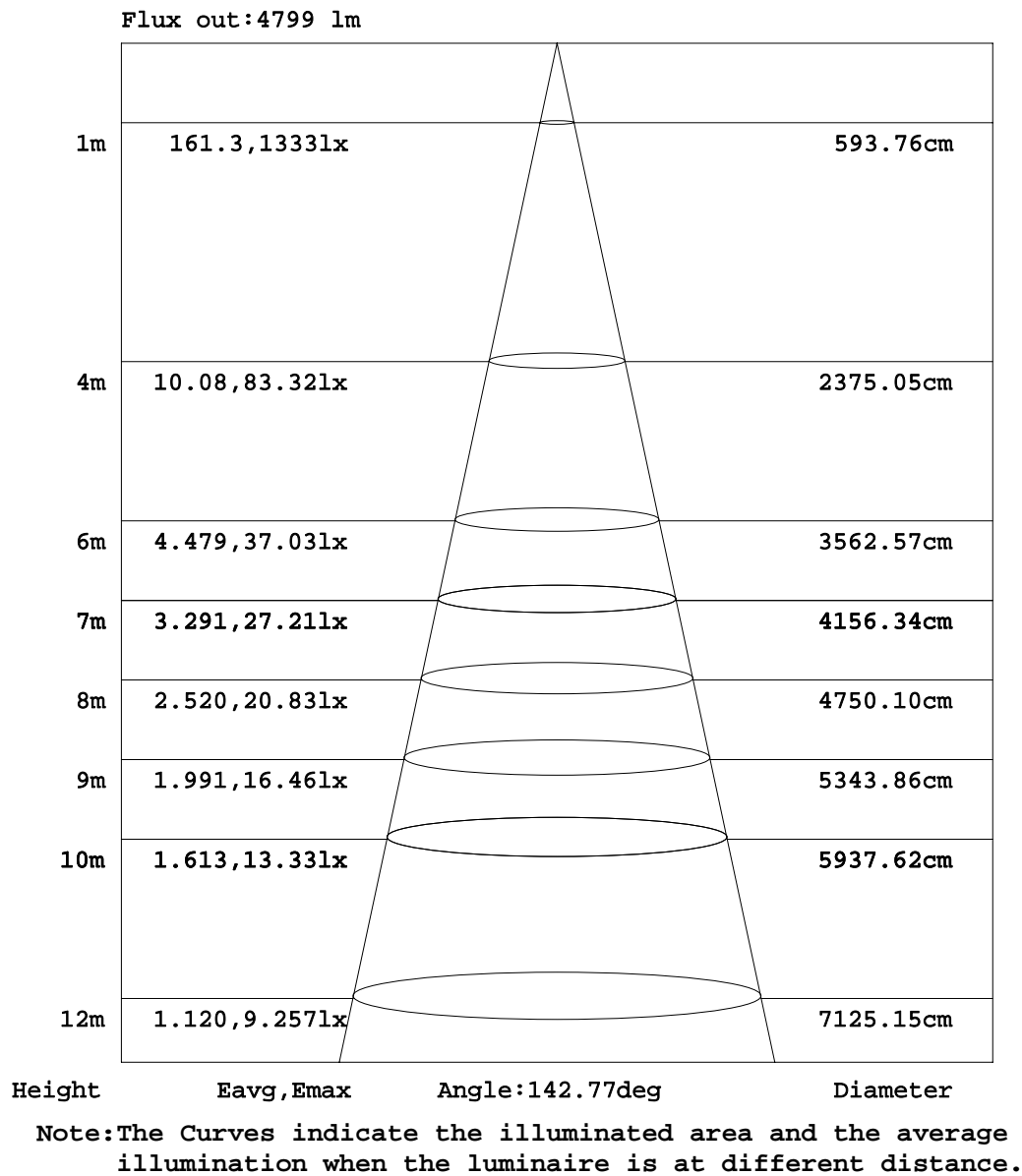
Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
Test Date: 2023-11-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 8.835m [K=1.0000]
Remarks:

AAI Figure



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: YangWenPeng
 Test Date: 2023-11-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 8.835m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	14.6	9.45	5.28	3.04	1.76	1.29	0.96	0.83	0.96	1.13	1.26	1.34	1.39	1.43	1.47	1.52	1.58	1.64	1.66
-170	14.6	9.81	5.74	3.57	2.26	1.71	1.40	1.24	1.26	1.35	1.45	1.56	1.65	1.75	1.85	1.87	1.79	1.74	1.71
-160	14.6	10.3	6.42	4.27	2.92	2.21	1.91	1.73	1.66	1.64	1.64	1.73	1.83	1.84	1.84	1.82	1.79	1.78	1.77
-150	14.6	11.0	7.35	5.20	3.87	3.00	2.54	2.34	2.24	2.14	2.01	1.82	1.78	1.78	1.78	1.78	1.77	1.75	1.73
-140	14.6	11.8	8.60	6.40	5.17	4.13	3.47	3.14	3.01	2.78	2.43	2.13	1.93	1.80	1.74	1.72	1.72	1.72	1.71
-130	14.6	12.6	10.2	8.01	6.77	5.98	5.14	4.58	3.81	3.43	3.09	2.81	2.55	2.33	2.15	2.04	1.97	1.92	1.89
-120	14.6	13.5	12.3	10.5	9.00	8.22	7.77	7.04	5.77	4.91	4.30	3.85	3.61	3.41	3.26	3.14	3.06	3.01	2.99
-110	14.6	14.3	14.6	14.0	12.9	12.0	11.3	10.2	9.12	8.16	7.25	6.34	5.63	5.33	5.21	5.13	5.10	5.09	5.13
-100	14.6	15.2	16.2	17.5	18.6	19.2	19.3	17.4	15.7	14.3	13.2	12.3	11.5	11.4	11.4	11.5	11.6	11.9	12.1
-90	14.6	16.6	18.6	20.7	22.7	24.8	26.8	26.9	27.0	27.2	27.3	27.4	27.5	27.6	27.6	27.7	27.8	27.9	27.9
-80	14.6	19.3	28.0	40.5	56.7	78.3	104	108	107	105	99.1	91.5	82.3	86.9	91.9	95.8	98.6	100	100
-70	14.6	21.7	35.5	67.2	112	160	211	240	259	276	294	309	322	382	463	536	599	652	692
-60	14.6	23.2	51.6	111	174	256	357	470	550	642	721	811	905	1022	1162	1274	1357	1422	1470
-50	14.6	23.7	76.4	149	256	401	566	733	873	1019	1160	1275	1367	1437	1450	1447	1444	1439	1442
-40	14.6	23.3	97.3	189	354	552	753	945	1111	1181	1222	1258	1278	1292	1300	1277	1259	1251	1247
-30	14.6	26.5	112	244	447	679	898	1061	1109	1120	1127	1133	1151	1174	1199	1211	1205	1192	1182
-20	14.6	29.9	119	284	515	766	971	1048	1059	1067	1068	1083	1128	1162	1186	1203	1213	1202	1190
-10	14.6	31.0	120	307	557	815	969	1007	1010	1027	1047	1092	1135	1171	1201	1233	1255	1264	1255
0	14.6	29.9	116	310	564	822	939	969	965	993	1026	1077	1128	1168	1204	1241	1268	1302	1313
10	14.6	29.8	118	305	547	802	943	974	959	986	1003	1053	1100	1141	1190	1230	1268	1291	1305
20	14.6	27.6	114	281	499	741	923	980	975	962	983	993	1042	1093	1138	1174	1206	1224	1229
30	14.6	23.2	102	240	428	642	848	971	1000	974	958	1000	1015	1038	1065	1106	1124	1134	1138
40	14.6	18.9	83.2	181	343	514	697	868	981	1035	1058	1050	1054	1070	1098	1117	1127	1137	1154
50	14.6	18.4	63.4	131	247	378	512	652	814	974	1087	1158	1213	1233	1244	1249	1254	1271	1295
60	14.6	17.4	39.5	83.9	151	242	340	430	532	654	790	939	1065	1180	1268	1334	1380	1422	1463
70	14.6	16.4	22.6	47.4	78.0	107	174	228	273	322	372	425	484	589	706	813	910	994	1067
80	14.6	15.8	16.7	20.4	29.7	45.0	63.3	77.3	89.0	101	114	129	143	165	191	218	244	270	292
90	14.6	14.9	15.2	15.5	15.9	16.2	16.5	18.0	19.4	20.8	22.3	23.7	25.1	26.6	28.0	29.4	30.9	32.3	33.7
100	14.6	13.9	13.4	13.0	12.7	12.4	12.1	12.3	12.5	12.5	12.6	12.7	12.8	13.2	13.6	14.0	14.5	15.0	15.7
110	14.6	13.0	11.8	10.6	9.59	8.73	7.86	7.14	6.67	6.38	6.16	5.92	5.72	5.58	5.49	5.47	5.51	5.61	5.80
120	14.6	12.2	10.2	8.42	6.90	5.54	4.42	3.67	3.35	3.16	2.99	2.88	2.83	2.77	2.70	2.64	2.62	2.64	2.71
130	14.6	11.4	8.78	6.59	4.85	3.54	2.73	2.28	1.92	1.79	1.73	1.65	1.61	1.57	1.52	1.49	1.49	1.50	1.53
140	14.6	10.8	7.61	5.23	3.51	2.47	1.92	1.51	1.31	1.24	1.22	1.21	1.21	1.26	1.31	1.35	1.39	1.43	1.46
150	14.6	10.3	6.68	4.26	2.70	1.92	1.45	1.19	1.08	1.07	1.10	1.19	1.29	1.39	1.50	1.60	1.67	1.73	1.79
160	14.6	9.88	5.99	3.61	2.20	1.58	1.20	1.00	0.99	1.07	1.18	1.29	1.38	1.45	1.52	1.59	1.65	1.69	1.72
170	14.6	9.60	5.53	3.23	1.92	1.39	1.05	0.90	0.96	1.11	1.24	1.34	1.39	1.43	1.46	1.51	1.56	1.62	1.64
180	14.6	9.45	5.28	3.04	1.76	1.29	0.96	0.83	0.96	1.13	1.26	1.34	1.39	1.43	1.47	1.52	1.58	1.64	1.65

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: YangWenPeng
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 8.835m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	1.77	1.83	1.84	1.83	1.78	1.73	1.73	1.68	1.68	1.77	2.07	2.51	3.25	4.83	7.57	11.7	15.9	69.3	
-170	1.77	1.81	1.84	1.81	1.76	1.71	1.69	1.67	1.67	1.81	2.13	2.57	3.36	4.97	7.74	11.8	15.9	69.3	
-160	1.78	1.79	1.77	1.75	1.71	1.66	1.66	1.63	1.72	1.94	2.28	2.76	3.65	5.39	8.25	12.2	16.0	69.3	
-150	1.73	1.72	1.70	1.67	1.64	1.66	1.63	1.72	1.91	2.19	2.54	3.19	4.27	6.17	9.12	12.9	16.0	69.3	
-140	1.70	1.69	1.67	1.66	1.68	1.78	1.91	2.10	2.31	2.56	3.15	3.94	5.31	7.41	10.4	13.9	16.2	69.3	
-130	1.91	1.96	2.03	2.16	2.33	2.46	2.62	2.80	3.13	3.56	4.24	5.38	7.06	9.27	12.0	15.1	16.7	69.3	
-120	3.03	3.10	3.20	3.35	3.56	3.77	4.02	4.31	4.75	5.46	6.51	7.85	9.64	11.7	14.1	16.3	24.9	69.3	
-110	5.19	5.30	5.47	5.69	6.00	6.38	6.90	7.56	8.33	9.19	10.3	11.7	13.2	14.9	16.5	17.1	37.1	69.3	
-100	11.9	11.8	11.8	11.8	11.9	12.2	12.9	13.7	14.5	15.5	16.5	17.5	18.0	18.0	21.8	33.5	49.8	69.3	
-90	27.5	27.1	26.7	26.3	25.9	25.5	28.2	30.9	33.6	36.3	39.0	41.7	46.3	50.9	55.5	60.1	64.7	69.3	
-80	106	110	112	113	112	112	125	136	143	145	143	137	127	116	105	93.5	82.4	69.3	
-70	672	639	596	543	482	433	410	386	365	351	335	305	260	215	171	133	99.8	69.3	
-60	1438	1395	1342	1274	1183	1058	943	834	737	650	579	500	420	339	256	179	118	69.3	
-50	1417	1400	1387	1369	1348	1301	1236	1162	1064	945	830	709	589	468	346	231	137	69.3	
-40	1230	1223	1219	1217	1200	1192	1181	1148	1093	1050	997	887	749	594	433	281	155	69.3	
-30	1173	1165	1155	1146	1126	1109	1091	1076	1064	1046	1027	976	871	706	516	327	171	69.3	
-20	1190	1185	1178	1157	1135	1101	1071	1048	1040	1025	1016	992	932	789	580	363	184	69.3	
-10	1258	1256	1242	1216	1181	1141	1098	1059	1023	999	991	990	954	845	623	387	193	69.3	
0	1318	1312	1288	1254	1214	1165	1112	1071	1013	976	966	977	957	875	645	399	197	69.3	
10	1310	1267	1224	1202	1180	1147	1116	1088	1054	1022	1004	967	907	809	600	377	191	69.3	
20	1234	1231	1208	1183	1153	1136	1127	1116	1084	1071	1023	908	834	718	537	345	180	69.3	
30	1155	1172	1192	1182	1161	1158	1167	1144	1141	1077	961	813	723	603	458	304	166	69.3	
40	1165	1177	1192	1213	1230	1233	1227	1203	1113	931	755	658	583	475	368	256	149	69.3	
50	1303	1315	1329	1328	1322	1294	1244	1125	920	685	511	471	405	354	284	206	130	69.3	
60	1453	1445	1435	1419	1361	1203	1024	821	621	455	303	274	264	241	206	158	111	69.3	
70	1024	968	901	820	721	589	462	364	277	214	166	146	157	151	137	116	92.8	69.3	
80	274	254	231	207	183	164	147	130	112	95.3	78.7	65.8	75.4	79.7	80.2	78.8	76.3	69.3	
90	33.1	32.5	31.9	31.2	30.6	30.0	27.8	25.7	23.5	21.4	19.3	17.1	25.8	34.5	43.2	51.9	60.6	69.3	
100	15.5	15.4	15.4	15.4	15.6	15.8	15.1	14.5	14.0	13.3	12.6	12.0	13.2	14.4	19.5	31.7	48.0	69.3	
110	5.69	5.69	5.76	5.95	6.25	6.57	6.70	6.86	7.00	7.12	7.08	7.55	9.52	11.8	13.9	15.3	36.2	69.3	
120	2.66	2.67	2.72	2.80	2.93	3.01	3.11	3.24	3.37	3.53	3.76	5.00	6.92	9.19	12.0	14.7	24.3	69.3	
130	1.49	1.48	1.48	1.52	1.59	1.66	1.78	1.91	2.05	2.25	2.62	3.49	5.04	7.42	10.3	13.8	16.0	69.3	
140	1.40	1.32	1.24	1.16	1.15	1.17	1.20	1.27	1.38	1.61	2.11	2.87	4.01	6.04	9.09	12.8	15.6	69.3	
150	1.74	1.69	1.60	1.48	1.36	1.24	1.13	1.07	1.20	1.48	1.89	2.49	3.50	5.22	8.23	12.1	15.6	69.3	
160	1.71	1.71	1.68	1.63	1.57	1.48	1.38	1.28	1.31	1.50	1.85	2.34	3.21	4.82	7.68	11.7	15.6	69.3	
170	1.65	1.63	1.60	1.62	1.64	1.62	1.60	1.52	1.49	1.60	1.92	2.37	3.15	4.71	7.46	11.5	15.7	69.3	
180	1.77	1.83	1.84	1.83	1.78	1.73	1.73	1.68	1.68	1.77	2.07	2.51	3.25	4.83	7.57	11.7	15.9	69.3	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: YangWenPeng
 Test Date: 2023-11-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 8.835m [K=1.0000]
 Remarks: