

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	292.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	162.6V x 166.3H
	At 50% of I _{max}	145.3V x 142.8H
	At 90% of I _{max}	132.6V x 49.5H

Beam Flux	Total	988.0 lumens per klm.
	To 10% of I _{max}	968.1 lumens per klm.
	To 50% of I _{max}	863.7 lumens per klm.
	To 90% of I _{max}	73.2 lumens per klm.

Upward LOR	0.7 %
Downward LOR	98.1 %

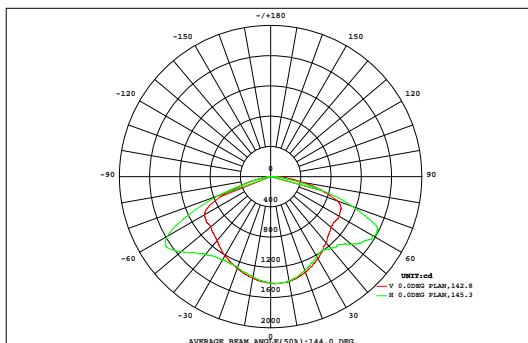
Luminaire Efficiency(Light Output Ratio)	98.8 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

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-W40-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:142.25lm/W	
MODEL	TP421-W40-4000K	Imax(cd)	1666
NOMINAL POWER(W)	40	AVAILABILITY(%)	96.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	5508
NOMINAL FLUX(lm)	5690.6	LOR(%)	98.8
LAMPS INSIDE	1	TOTAL FLUX(lm)	5691
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	143,145DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.04	0.15	0.34	0.72	1.21	1.76	2.39	3.10	3.74	3.84	3.39	2.84	2.16	1.43	0.82	0.61	0.50	0.19	29.2	7.40
90	0.04	0.15	0.34	0.72	1.21	1.76	2.39	3.10	3.74	3.84	3.39	2.84	2.16	1.43	0.82	0.61	0.50	0.19	29.2	7.40
80	0.05	0.30	1.08	2.57	4.59	6.85	10.2	15.3	19.9	20.3	16.5	11.6	7.31	4.27	2.31	1.54	0.91	0.25	126	116
70	0.06	0.60	2.52	6.21	11.2	18.1	26.8	35.7	42.2	43.3	38.9	31.6	20.5	10.5	4.55	2.82	1.45	0.32	297	295
60	0.08	1.02	4.38	10.2	19.2	29.1	36.8	41.5	44.5	45.2	43.6	40.3	31.2	18.1	8.13	4.61	2.10	0.40	380	379
50	0.11	1.51	6.30	14.4	23.5	30.0	33.8	36.5	38.5	39.6	39.6	38.0	33.1	23.5	12.3	6.87	2.83	0.48	381	380
40	0.14	2.00	8.18	17.2	23.1	27.1	31.2	34.3	36.3	37.3	37.2	35.1	31.8	26.1	16.4	9.06	3.59	0.56	377	376
30	0.16	2.42	9.71	18.1	22.3	26.5	31.5	36.0	38.3	38.8	37.7	34.3	30.6	25.7	18.6	10.8	4.32	0.64	387	386
20	0.18	2.73	10.7	18.2	22.5	27.5	33.1	38.0	41.0	41.3	38.5	34.4	29.9	24.8	19.0	12.0	4.97	0.70	400	399
10	0.18	2.88	11.1	18.0	22.9	28.6	34.3	39.1	42.3	42.5	39.5	35.4	29.9	23.9	18.5	12.8	5.46	0.74	408	408
0	0.19	2.90	11.2	18.4	23.4	29.1	34.6	39.1	41.9	42.0	39.9	35.5	29.7	23.6	18.4	13.1	5.57	0.75	409	409
-10	0.19	2.78	11.0	19.1	24.1	29.2	34.5	38.3	40.1	39.8	38.1	34.2	29.1	23.8	18.8	12.9	5.27	0.72	402	402
-20	0.18	2.49	10.2	19.6	25.2	29.5	34.5	38.0	38.8	38.2	36.5	33.3	28.7	24.2	19.1	12.4	4.80	0.67	396	396
-30	0.16	2.07	8.71	18.9	26.6	32.0	36.2	38.9	39.5	38.9	37.1	34.2	30.2	24.9	19.0	11.3	4.18	0.60	404	403
-40	0.13	1.61	6.78	15.9	26.2	34.5	40.6	42.9	43.5	42.8	40.8	37.8	32.5	25.3	17.3	9.39	3.44	0.52	422	421
-50	0.10	1.18	4.64	11.3	19.2	28.7	38.3	45.1	48.5	48.1	44.6	39.1	30.6	21.3	13.3	7.06	2.64	0.44	404	403
-60	0.08	0.81	2.90	6.40	10.3	14.9	20.7	28.4	34.2	35.0	30.9	24.4	17.9	12.7	8.45	4.73	1.86	0.35	255	253
-70	0.07	0.47	1.66	3.19	4.19	4.88	5.94	8.18	10.1	10.5	9.33	7.52	6.45	5.67	4.37	2.64	1.18	0.28	86.6	73.0
-80	0.06	0.27	0.72	1.19	1.32	1.22	1.18	1.33	1.41	1.50	1.60	1.57	1.67	1.75	1.55	1.14	0.67	0.21	20.4	0.00
-90	0.06	0.27	0.72	1.19	1.32	1.22	1.18	1.33	1.41	1.50	1.60	1.57	1.67	1.75	1.55	1.14	0.67	0.21	20.4	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.15	28.2	112	220	311	399	487	560	605	609	574	511	423	321	221	136	55.7	8.83	5584	---
Φ a	0.00	22.2	108	216	306	395	482	555	601	605	569	507	419	317	216	132	52.4	6.11	---	5508

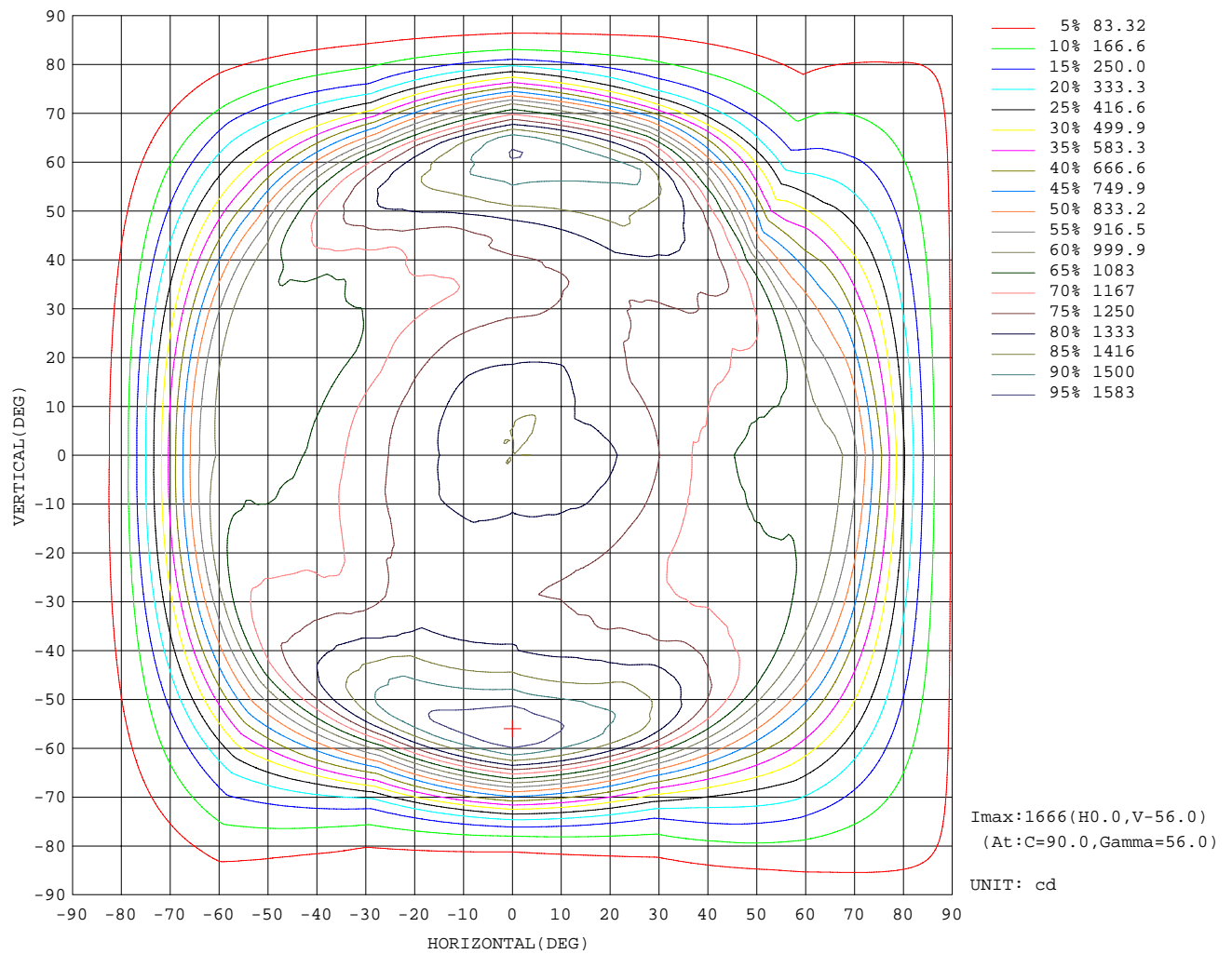
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

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:

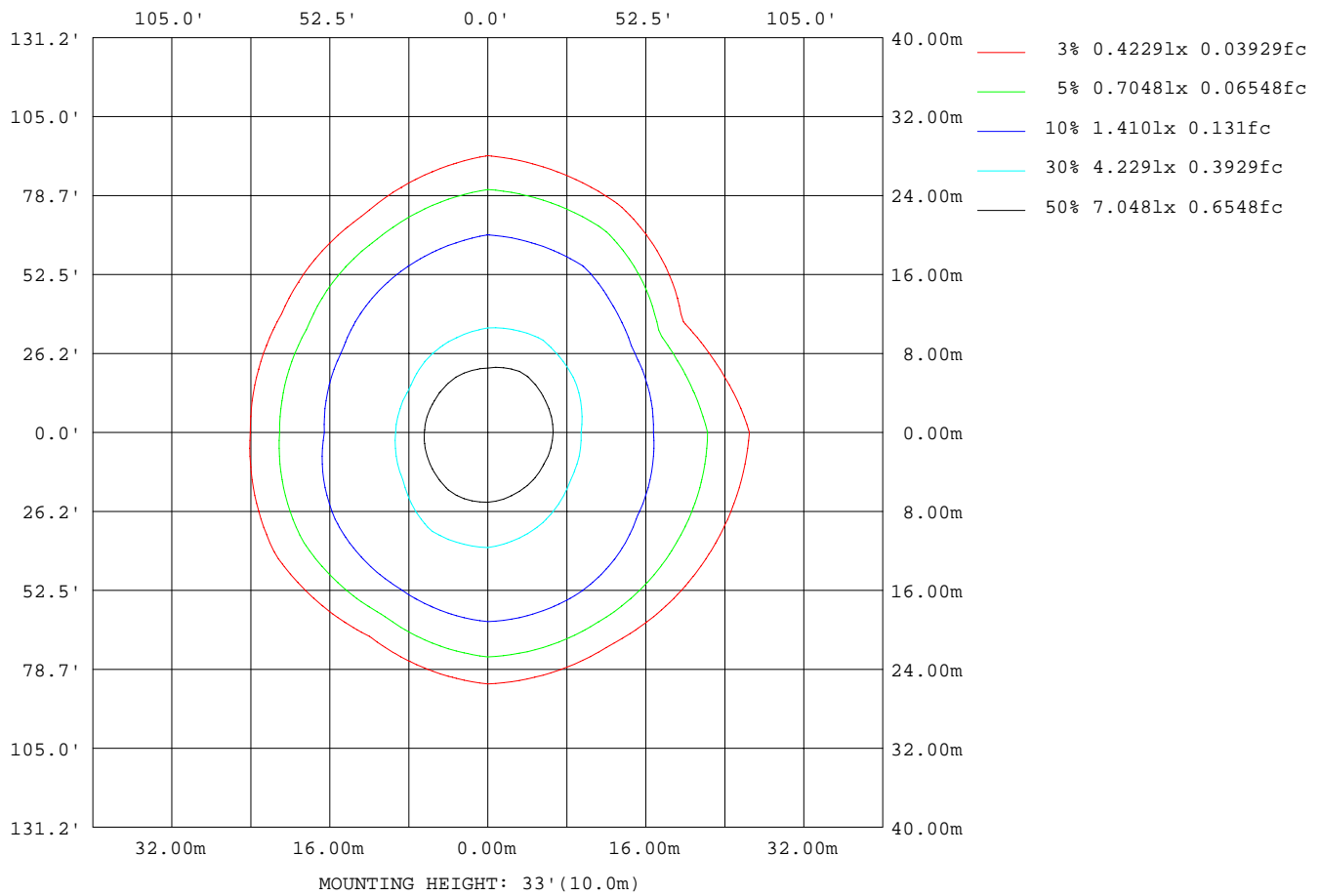
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
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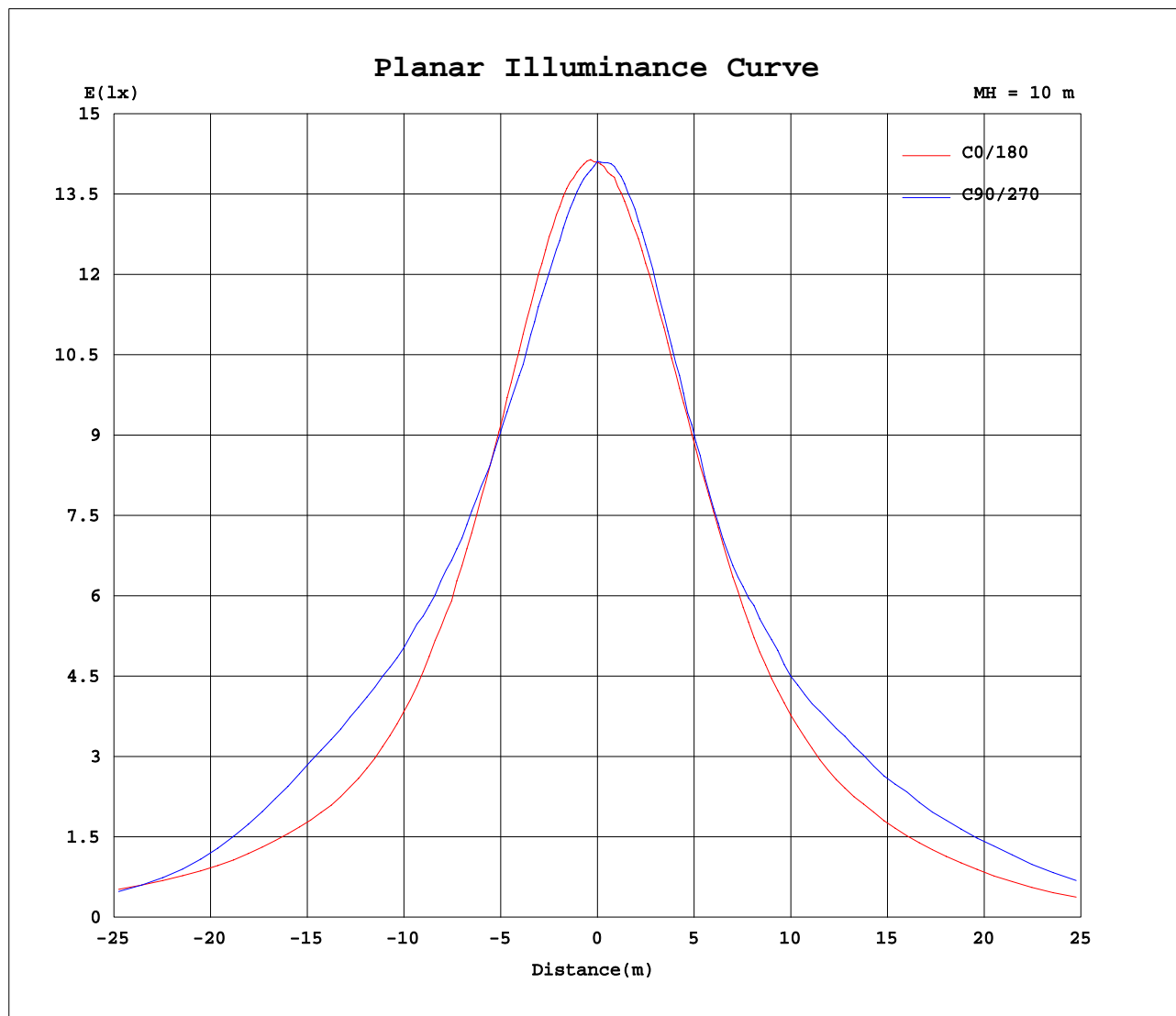
ISOLUX DIAGRAM



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:

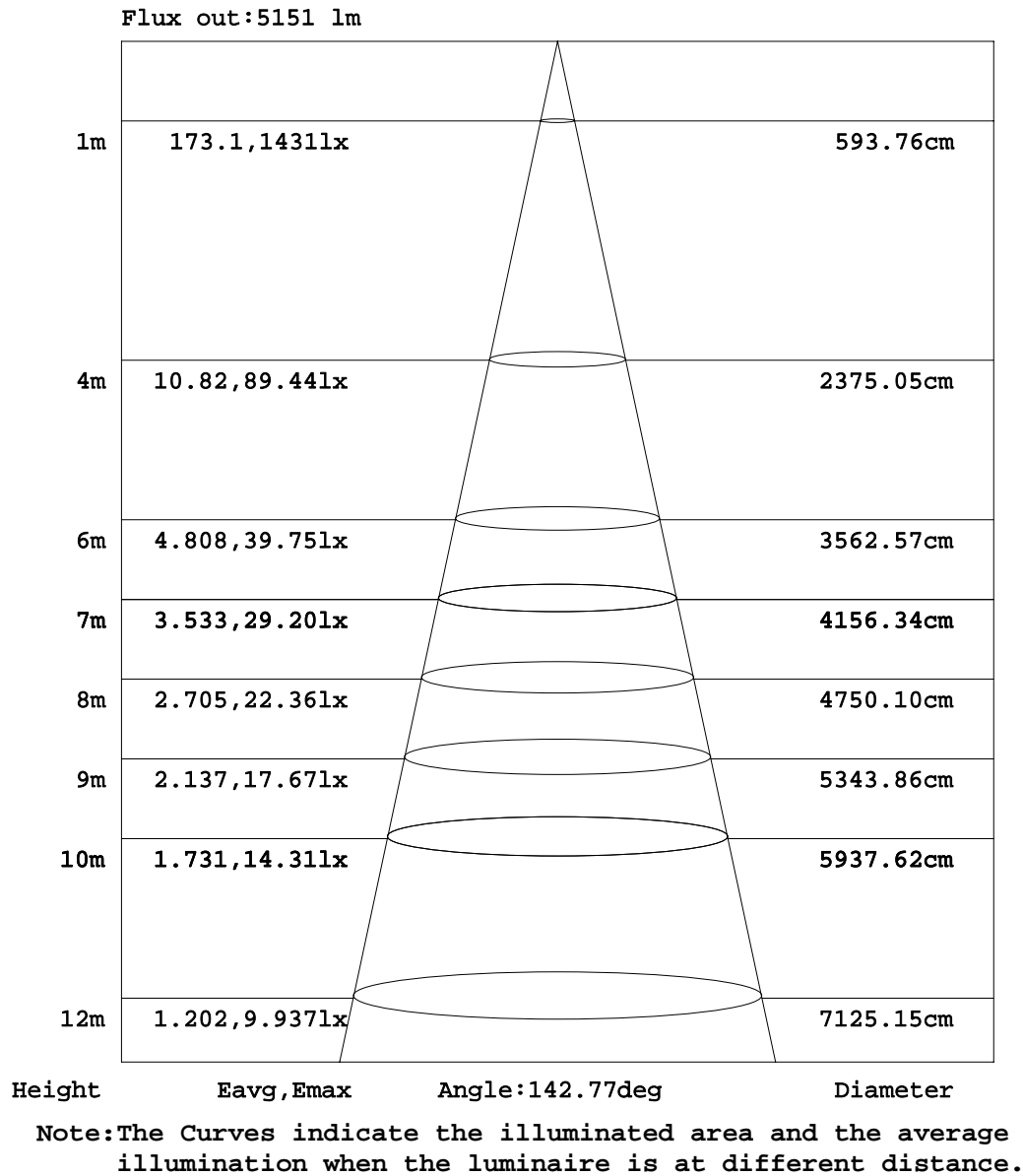
Planar Illuminance Curve



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	15.6	10.1	5.67	3.26	1.89	1.38	1.03	0.89	1.03	1.21	1.35	1.44	1.49	1.53	1.58	1.63	1.69	1.76	1.78
-170	15.6	10.5	6.16	3.83	2.42	1.83	1.50	1.34	1.36	1.45	1.56	1.67	1.77	1.88	1.99	2.01	1.92	1.87	1.84
-160	15.6	11.1	6.89	4.58	3.13	2.38	2.05	1.86	1.78	1.76	1.76	1.86	1.96	1.98	1.98	1.95	1.92	1.91	1.90
-150	15.6	11.8	7.89	5.59	4.16	3.22	2.72	2.51	2.41	2.29	2.16	1.95	1.91	1.91	1.91	1.91	1.90	1.88	1.86
-140	15.6	12.6	9.24	6.87	5.55	4.44	3.72	3.37	3.23	2.99	2.60	2.28	2.07	1.94	1.87	1.85	1.85	1.85	1.84
-130	15.6	13.6	11.0	8.60	7.27	6.42	5.51	4.91	4.09	3.69	3.32	3.02	2.74	2.50	2.31	2.19	2.11	2.06	2.03
-120	15.6	14.5	13.3	11.3	9.66	8.83	8.34	7.56	6.20	5.27	4.62	4.14	3.87	3.66	3.50	3.38	3.29	3.23	3.21
-110	15.6	15.4	15.7	15.0	13.9	12.9	12.1	11.0	9.79	8.76	7.78	6.80	6.04	5.72	5.60	5.51	5.47	5.47	5.51
-100	15.6	16.3	17.4	18.8	20.0	20.6	20.7	18.6	16.8	15.3	14.1	13.2	12.4	12.2	12.3	12.3	12.5	12.7	13.0
-90	15.6	17.8	20.0	22.2	24.4	26.6	28.8	28.9	29.0	29.2	29.3	29.4	29.5	29.6	29.7	29.7	29.8	29.9	30.0
-80	15.6	20.7	30.1	43.4	60.9	84.1	112	116	115	112	106	98.2	88.4	93.3	98.6	103	106	107	108
-70	15.6	23.3	38.1	72.1	120	171	226	258	278	297	316	332	346	410	497	576	643	700	742
-60	15.6	24.9	55.4	119	186	275	383	504	591	689	774	871	972	1098	1247	1367	1457	1526	1578
-50	15.6	25.5	82.1	160	275	431	607	787	937	1094	1245	1368	1468	1543	1556	1553	1550	1545	1547
-40	15.6	25.0	104	202	381	592	808	1015	1192	1267	1312	1350	1372	1386	1395	1370	1352	1342	1338
-30	15.6	28.5	120	262	480	729	964	1139	1190	1202	1210	1217	1235	1261	1287	1300	1293	1280	1268
-20	15.6	32.1	128	305	553	822	1043	1125	1136	1145	1146	1162	1211	1248	1273	1291	1302	1290	1277
-10	15.6	33.3	129	329	597	875	1040	1081	1084	1103	1124	1173	1218	1257	1289	1323	1347	1357	1347
0	15.6	32.1	125	332	605	883	1008	1041	1036	1066	1102	1156	1211	1254	1292	1333	1361	1397	1410
10	15.6	32.0	127	327	587	861	1012	1046	1029	1059	1076	1130	1181	1225	1277	1321	1362	1386	1401
20	15.6	29.6	122	302	536	795	991	1052	1047	1033	1055	1066	1119	1173	1222	1260	1295	1314	1319
30	15.6	24.9	109	258	459	689	910	1042	1074	1046	1029	1074	1089	1114	1143	1187	1206	1217	1221
40	15.6	20.3	89.3	195	368	551	748	932	1053	1111	1135	1127	1131	1148	1179	1199	1210	1221	1239
50	15.6	19.8	68.1	141	265	406	549	700	873	1046	1167	1243	1302	1323	1335	1341	1346	1364	1390
60	15.6	18.7	42.4	90.1	162	260	365	461	571	702	848	1008	1144	1266	1361	1432	1482	1526	1570
70	15.6	17.6	24.2	50.8	83.7	115	186	245	293	345	400	456	520	633	758	873	977	1067	1146
80	15.6	17.0	17.9	21.9	31.8	48.3	68.0	83.0	95.5	108	122	138	153	177	205	234	262	290	313
90	15.6	16.0	16.3	16.7	17.0	17.4	17.7	19.3	20.8	22.4	23.9	25.4	27.0	28.5	30.1	31.6	33.1	34.7	36.2
100	15.6	14.9	14.4	13.9	13.6	13.3	13.0	13.2	13.4	13.5	13.5	13.6	13.8	14.1	14.6	15.0	15.5	16.1	16.8
110	15.6	13.9	12.6	11.4	10.3	9.37	8.43	7.66	7.16	6.85	6.62	6.35	6.14	5.99	5.90	5.87	5.92	6.03	6.22
120	15.6	13.1	11.0	9.04	7.41	5.95	4.74	3.94	3.59	3.39	3.21	3.09	3.04	2.98	2.89	2.84	2.82	2.83	2.91
130	15.6	12.3	9.43	7.07	5.21	3.80	2.94	2.45	2.06	1.93	1.86	1.77	1.73	1.68	1.63	1.60	1.60	1.61	1.64
140	15.6	11.6	8.17	5.61	3.77	2.65	2.06	1.62	1.41	1.34	1.31	1.30	1.30	1.35	1.41	1.45	1.49	1.54	1.57
150	15.6	11.0	7.17	4.57	2.90	2.06	1.55	1.28	1.16	1.15	1.18	1.28	1.38	1.49	1.61	1.72	1.79	1.85	1.92
160	15.6	10.6	6.43	3.87	2.36	1.69	1.29	1.08	1.06	1.14	1.27	1.39	1.48	1.55	1.63	1.70	1.77	1.81	1.85
170	15.6	10.3	5.94	3.47	2.06	1.49	1.13	0.97	1.04	1.20	1.33	1.44	1.50	1.54	1.57	1.62	1.68	1.74	1.77
180	15.6	10.1	5.67	3.26	1.89	1.38	1.03	0.89	1.03	1.21	1.35	1.44	1.49	1.53	1.58	1.63	1.69	1.76	1.77

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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	1.90	1.96	1.98	1.97	1.91	1.85	1.86	1.80	1.80	1.90	2.23	2.69	3.49	5.19	8.12	12.5	17.0	74.4	
-170	1.90	1.94	1.97	1.94	1.89	1.83	1.81	1.79	1.79	1.94	2.28	2.76	3.61	5.33	8.31	12.7	17.1	74.4	
-160	1.91	1.92	1.90	1.88	1.83	1.78	1.78	1.75	1.84	2.08	2.44	2.96	3.92	5.78	8.86	13.1	17.1	74.4	
-150	1.86	1.85	1.83	1.79	1.76	1.78	1.75	1.85	2.05	2.35	2.72	3.43	4.58	6.62	9.79	13.9	17.2	74.4	
-140	1.82	1.81	1.80	1.78	1.80	1.91	2.05	2.26	2.48	2.75	3.39	4.23	5.70	7.96	11.1	14.9	17.4	74.4	
-130	2.05	2.10	2.18	2.32	2.50	2.64	2.81	3.00	3.36	3.82	4.56	5.78	7.58	9.95	12.9	16.2	17.9	74.4	
-120	3.25	3.32	3.44	3.60	3.82	4.05	4.32	4.63	5.10	5.86	6.98	8.42	10.3	12.6	15.1	17.5	26.7	74.4	
-110	5.57	5.69	5.87	6.11	6.44	6.85	7.40	8.12	8.94	9.87	11.1	12.5	14.2	16.0	17.8	18.3	39.8	74.4	
-100	12.8	12.7	12.6	12.7	12.8	13.1	13.8	14.7	15.6	16.6	17.8	18.8	19.3	19.4	23.4	36.0	53.4	74.4	
-90	29.5	29.1	28.7	28.3	27.8	27.4	30.3	33.2	36.1	39.0	41.8	44.7	49.7	54.6	59.6	64.5	69.4	74.4	
-80	114	118	121	121	120	120	134	146	154	156	153	147	136	124	112	100	88.5	74.4	
-70	721	686	640	583	518	465	440	414	392	376	360	328	279	231	184	143	107	74.4	
-60	1544	1498	1441	1368	1270	1135	1012	895	791	697	622	537	451	364	275	192	127	74.4	
-50	1521	1503	1489	1470	1447	1396	1326	1247	1143	1014	891	761	632	503	371	248	147	74.4	
-40	1321	1313	1309	1306	1288	1280	1268	1232	1173	1127	1070	953	804	637	465	302	167	74.4	
-30	1259	1251	1239	1230	1208	1190	1171	1156	1142	1123	1103	1047	935	758	553	351	184	74.4	
-20	1277	1272	1265	1242	1218	1181	1150	1125	1116	1100	1090	1065	1001	847	623	390	198	74.4	
-10	1351	1348	1334	1305	1267	1225	1178	1136	1098	1073	1064	1063	1024	907	669	415	207	74.4	
0	1415	1409	1383	1346	1303	1250	1194	1149	1087	1047	1037	1049	1027	939	693	428	212	74.4	
10	1407	1360	1314	1290	1267	1231	1198	1168	1132	1097	1078	1038	973	868	644	405	205	74.4	
20	1325	1321	1297	1270	1238	1219	1210	1198	1163	1150	1098	975	896	770	577	370	194	74.4	
30	1240	1258	1280	1269	1247	1244	1253	1228	1224	1157	1031	873	776	647	492	326	178	74.4	
40	1250	1263	1279	1302	1321	1323	1317	1292	1195	999	810	707	625	510	395	275	160	74.4	
50	1399	1412	1426	1426	1419	1389	1336	1207	988	736	548	505	435	380	305	221	140	74.4	
60	1560	1551	1541	1524	1461	1291	1099	881	666	488	326	294	284	259	221	170	119	74.4	
70	1099	1039	967	880	774	632	496	390	297	229	179	157	168	162	147	124	99.6	74.4	
80	295	272	248	222	197	176	158	139	121	102	84.5	70.6	80.9	85.5	86.1	84.6	82.0	74.4	
90	35.5	34.9	34.2	33.5	32.9	32.2	29.9	27.6	25.3	23.0	20.7	18.4	27.7	37.0	46.4	55.7	65.0	74.4	
100	16.6	16.5	16.5	16.6	16.7	16.9	16.3	15.6	15.0	14.3	13.5	12.8	14.2	15.5	20.9	34.1	51.5	74.4	
110	6.11	6.10	6.18	6.38	6.71	7.05	7.20	7.36	7.51	7.64	7.60	8.11	10.2	12.7	15.0	16.5	38.9	74.4	
120	2.86	2.86	2.92	3.01	3.15	3.23	3.33	3.48	3.62	3.79	4.04	5.37	7.43	9.86	12.9	15.8	26.0	74.4	
130	1.60	1.58	1.59	1.63	1.71	1.78	1.91	2.05	2.20	2.41	2.82	3.74	5.41	7.96	11.1	14.8	17.2	74.4	
140	1.50	1.41	1.33	1.25	1.24	1.25	1.29	1.37	1.48	1.73	2.27	3.09	4.30	6.48	9.75	13.8	16.8	74.4	
150	1.87	1.81	1.71	1.59	1.46	1.33	1.21	1.15	1.29	1.59	2.03	2.67	3.76	5.61	8.83	13.0	16.7	74.4	
160	1.84	1.84	1.80	1.75	1.69	1.59	1.48	1.38	1.41	1.61	1.98	2.51	3.45	5.18	8.25	12.5	16.8	74.4	
170	1.77	1.75	1.72	1.74	1.76	1.74	1.72	1.63	1.60	1.72	2.06	2.55	3.38	5.06	8.00	12.4	16.9	74.4	
180	1.90	1.96	1.98	1.97	1.91	1.85	1.86	1.80	1.80	1.90	2.23	2.69	3.49	5.19	8.12	12.5	17.0	74.4	

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: