

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	290.5 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	980.0 lumens per klm.
	To 10% of I _{max}	960.2 lumens per klm.
	To 50% of I _{max}	856.6 lumens per klm.
	To 90% of I _{max}	72.6 lumens per klm.

Upward LOR	0.7 %
Downward LOR	97.3 %

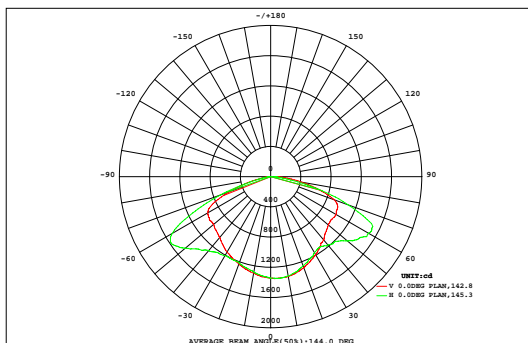
Luminaire Efficiency(Light Output Ratio)	98.0 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

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-W40-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:136.56lm/W	
MODEL	TP421-W40-5000K	Imax(cd)	1587
NOMINAL POWER(W)	40	AVAILABILITY(%)	96.0
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	5245
NOMINAL FLUX(lm)	5462.4	LOR(%)	98.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	5463
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	0.32	0.68	1.15	1.68	2.28	2.96	3.56	3.65	3.23	2.70	2.06	1.36	0.78	0.58	0.47	0.18	27.8	7.04
90	0.04	0.14	0.32	0.68	1.15	1.68	2.28	2.96	3.56	3.65	3.23	2.70	2.06	1.36	0.78	0.58	0.47	0.18	27.8	7.04
80	0.05	0.28	1.03	2.45	4.37	6.53	9.73	14.6	18.9	19.4	15.7	11.1	6.96	4.07	2.20	1.47	0.87	0.24	120	110
70	0.05	0.57	2.39	5.91	10.6	17.3	25.5	34.0	40.2	41.2	37.1	30.0	19.5	9.99	4.33	2.69	1.39	0.31	283	281
60	0.08	0.97	4.17	9.76	18.3	27.7	35.0	39.5	42.4	43.0	41.5	38.4	29.7	17.2	7.74	4.39	2.00	0.38	362	361
50	0.10	1.44	6.00	13.7	22.4	28.5	32.2	34.7	36.7	37.7	37.7	36.2	31.5	22.4	11.7	6.54	2.70	0.46	363	362
40	0.13	1.91	7.79	16.4	22.0	25.8	29.7	32.7	34.6	35.5	35.4	33.4	30.3	24.8	15.7	8.63	3.42	0.54	359	358
30	0.15	2.31	9.25	17.3	21.3	25.2	30.0	34.2	36.5	37.0	35.9	32.7	29.1	24.4	17.7	10.3	4.12	0.61	368	368
20	0.17	2.60	10.2	17.3	21.4	26.2	31.5	36.2	39.1	39.4	36.7	32.8	28.5	23.6	18.1	11.4	4.73	0.67	380	380
10	0.18	2.74	10.5	17.2	21.8	27.2	32.6	37.2	40.3	40.5	37.7	33.7	28.4	22.8	17.6	12.2	5.20	0.71	388	388
0	0.18	2.76	10.6	17.5	22.3	27.7	32.9	37.3	39.9	40.0	38.0	33.8	28.2	22.5	17.5	12.5	5.30	0.71	390	389
-10	0.18	2.64	10.5	18.2	23.0	27.8	32.8	36.5	38.1	37.9	36.2	32.6	27.7	22.7	17.9	12.3	5.02	0.68	383	382
-20	0.17	2.37	9.68	18.7	24.0	28.1	32.8	36.1	36.9	36.4	34.7	31.7	27.4	23.1	18.2	11.8	4.57	0.63	378	377
-30	0.15	1.97	8.30	18.0	25.3	30.4	34.4	37.0	37.7	37.1	35.3	32.6	28.8	23.7	18.1	10.7	3.98	0.57	384	384
-40	0.12	1.53	6.46	15.1	24.9	32.8	38.6	40.9	41.5	40.8	38.9	36.0	31.0	24.1	16.5	8.94	3.27	0.49	402	401
-50	0.10	1.13	4.42	10.8	18.3	27.3	36.5	43.0	46.2	45.8	42.5	37.2	29.1	20.3	12.7	6.73	2.52	0.41	385	384
-60	0.08	0.77	2.76	6.09	9.82	14.2	19.7	27.0	32.5	33.3	29.4	23.2	17.1	12.1	8.05	4.51	1.77	0.34	243	241
-70	0.07	0.45	1.58	3.04	3.99	4.64	5.66	7.79	9.61	10.0	8.89	7.16	6.14	5.40	4.16	2.51	1.12	0.27	82.5	69.5
-80	0.05	0.26	0.68	1.13	1.25	1.16	1.12	1.27	1.34	1.43	1.52	1.49	1.59	1.67	1.47	1.09	0.64	0.20	19.4	0.00
-90	0.05	0.26	0.68	1.13	1.25	1.16	1.12	1.27	1.34	1.43	1.52	1.49	1.59	1.67	1.47	1.09	0.64	0.20	19.4	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)	20	30	40	50	60	70	80	90			
Φ t	2.05	26.8	107	209	296	380	463	533	576	580	546	487	403	306	210	129	53.1	8.41	5317	---
Φ a	0.00	21.2	103	205	292	376	459	529	572	576	542	483	399	302	206	126	49.9	5.81	---	5245

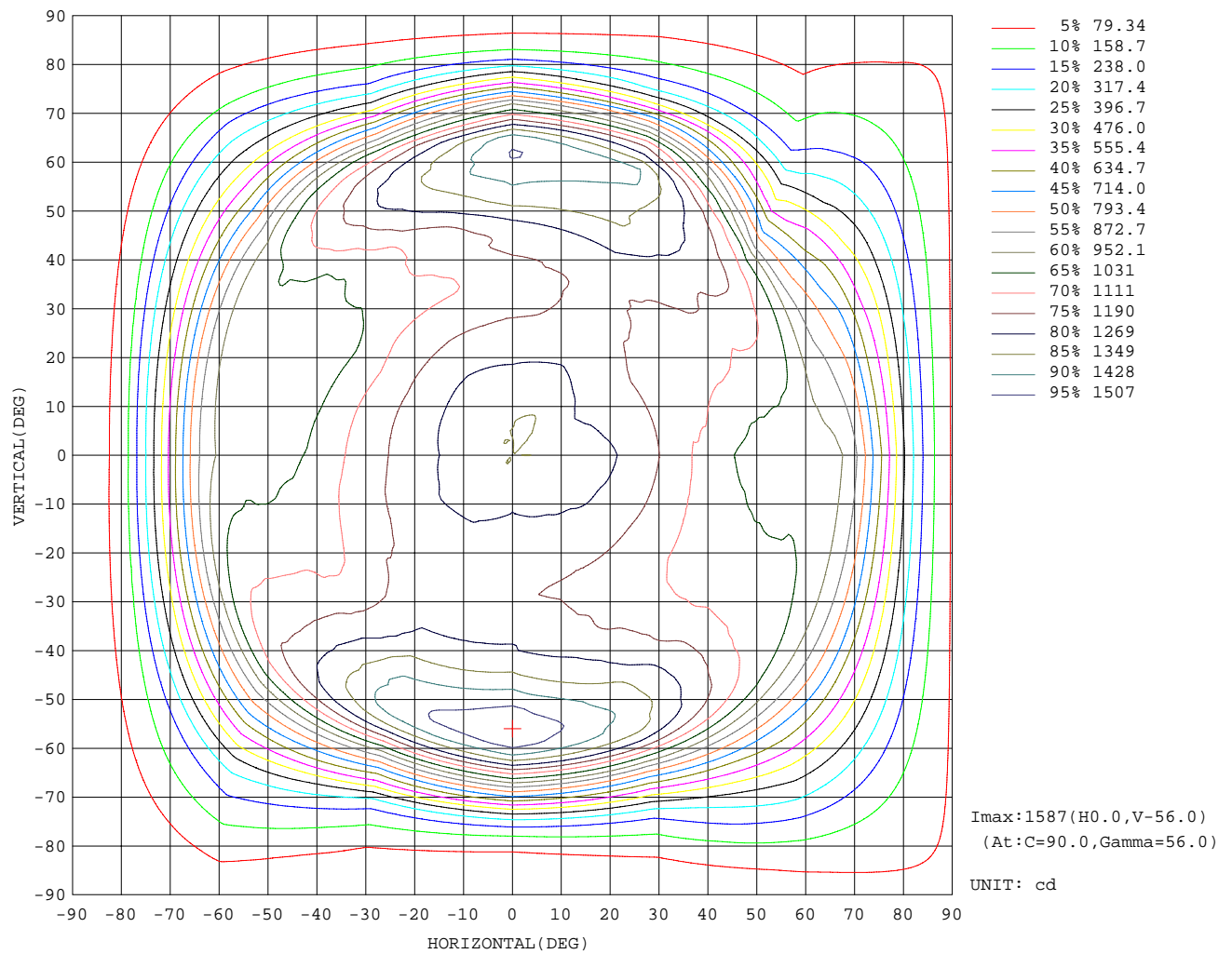
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

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:

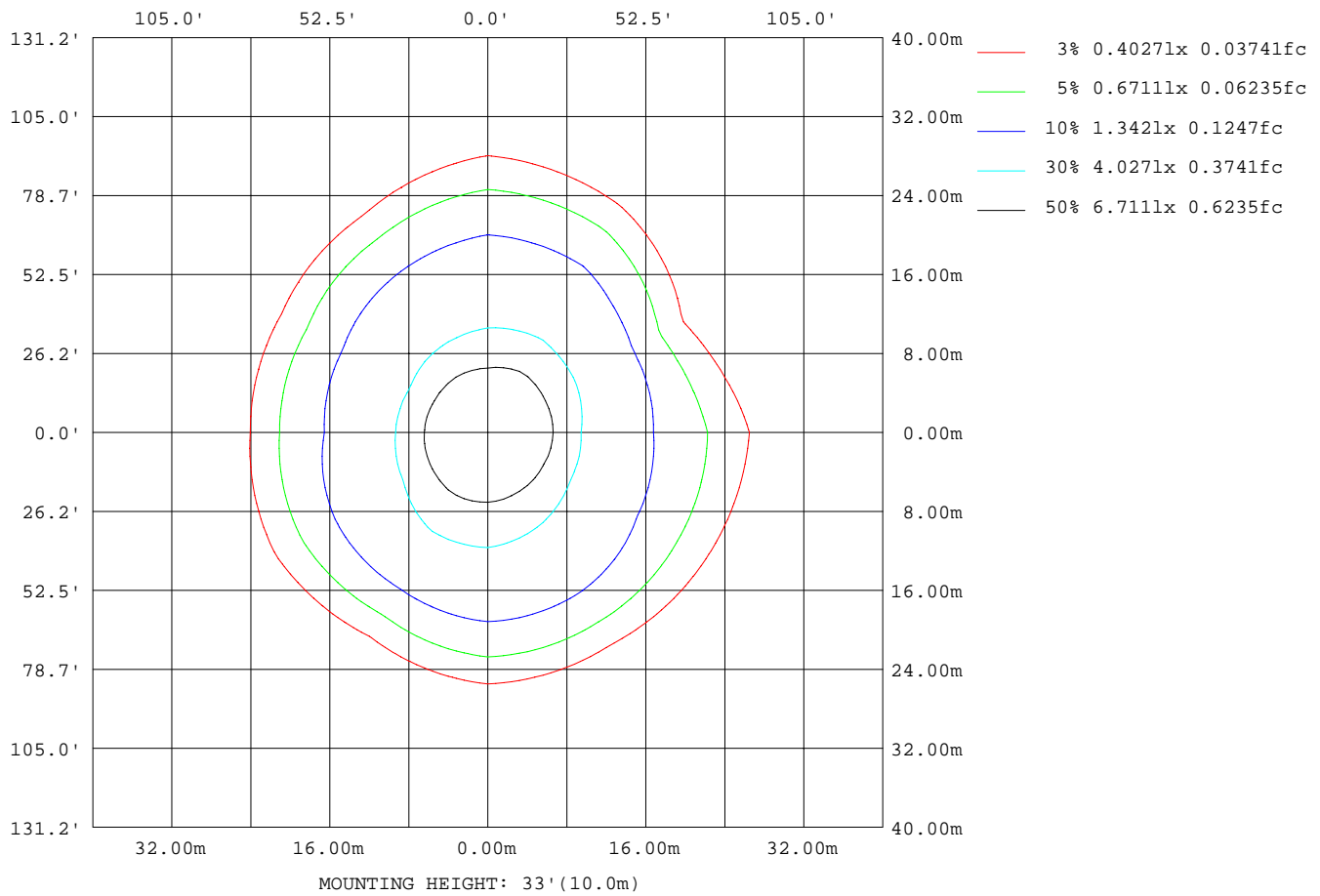
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
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Test Speed: HIGH
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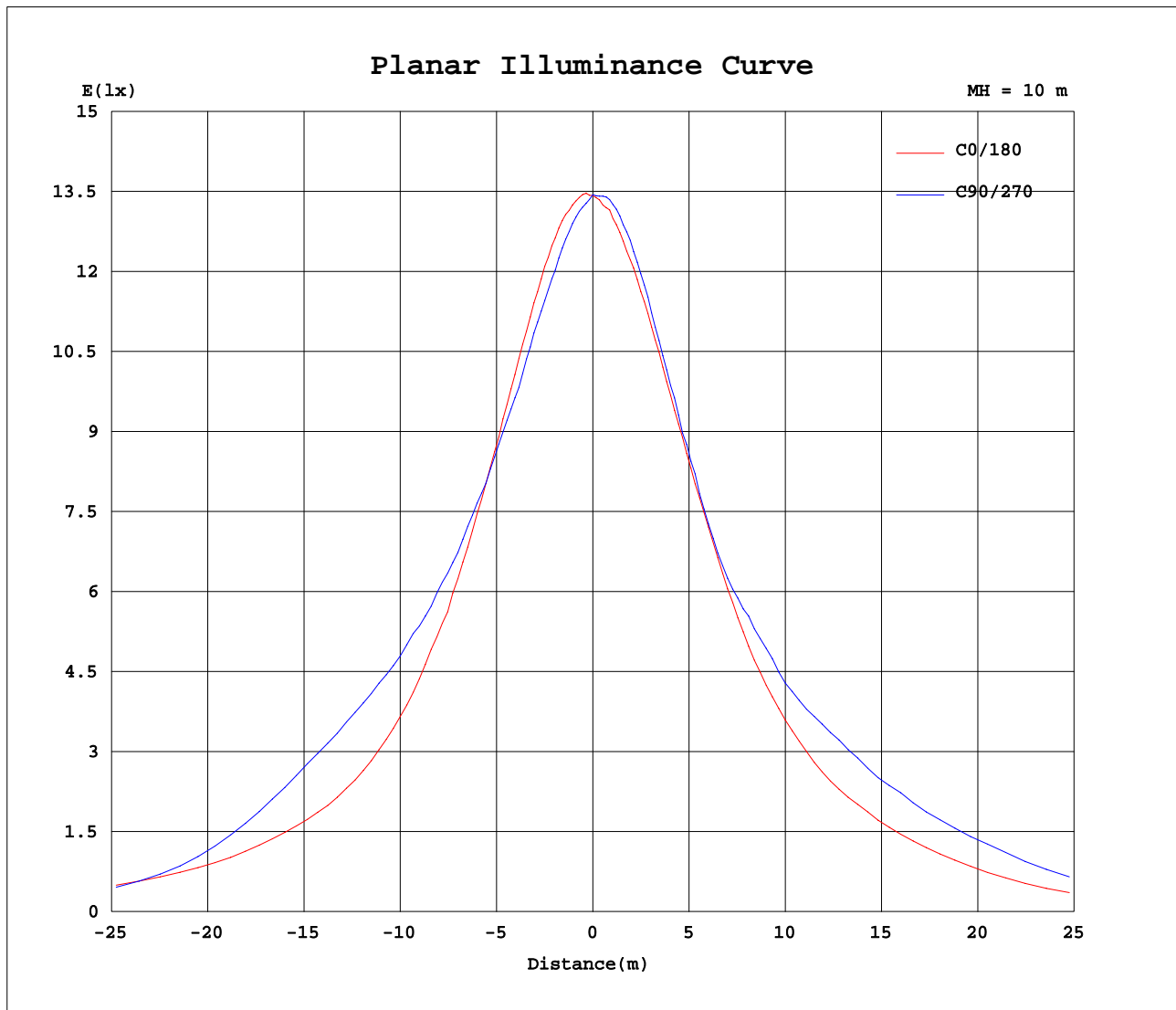
ISOLUX DIAGRAM



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:

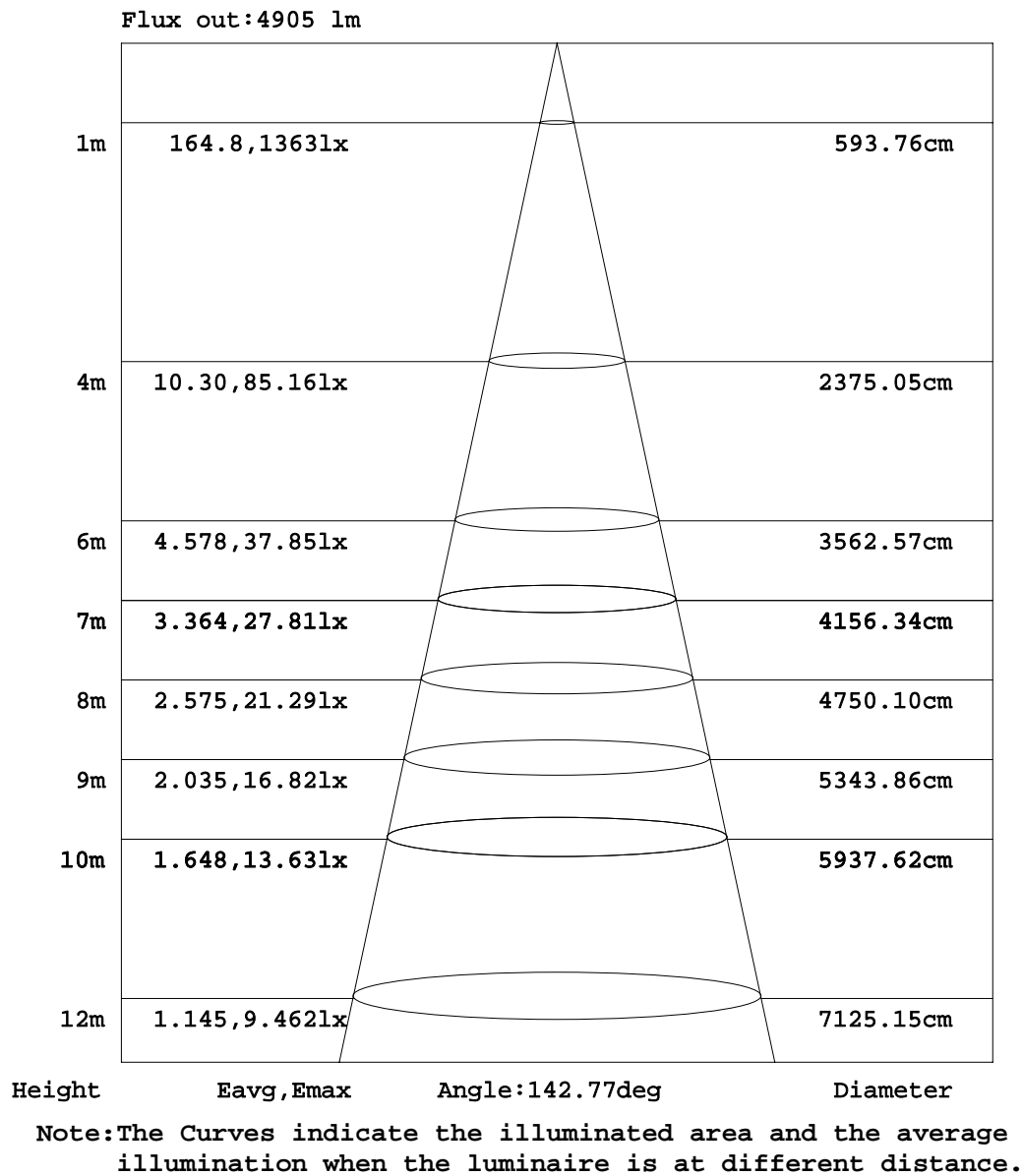
Planar Illuminance Curve



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	14.9	9.66	5.39	3.11	1.80	1.32	0.98	0.85	0.98	1.15	1.28	1.37	1.42	1.46	1.51	1.55	1.61	1.68	1.69
-170	14.9	10.0	5.87	3.65	2.31	1.74	1.43	1.27	1.29	1.38	1.48	1.59	1.68	1.79	1.89	1.91	1.83	1.78	1.75
-160	14.9	10.5	6.56	4.36	2.98	2.26	1.95	1.77	1.70	1.68	1.67	1.77	1.87	1.88	1.88	1.86	1.83	1.82	1.81
-150	14.9	11.2	7.51	5.32	3.96	3.07	2.59	2.39	2.29	2.18	2.05	1.86	1.82	1.82	1.82	1.82	1.81	1.79	1.77
-140	14.9	12.0	8.80	6.54	5.29	4.22	3.54	3.21	3.08	2.84	2.48	2.17	1.97	1.84	1.78	1.76	1.76	1.76	1.75
-130	14.9	12.9	10.4	8.19	6.92	6.11	5.25	4.68	3.90	3.51	3.16	2.87	2.61	2.38	2.20	2.09	2.01	1.96	1.94
-120	14.9	13.8	12.6	10.7	9.20	8.41	7.95	7.20	5.90	5.02	4.40	3.94	3.69	3.49	3.33	3.21	3.13	3.08	3.06
-110	14.9	14.6	14.9	14.3	13.2	12.3	11.5	10.4	9.32	8.34	7.41	6.48	5.75	5.45	5.33	5.25	5.21	5.21	5.25
-100	14.9	15.5	16.5	17.9	19.0	19.6	19.7	17.7	16.0	14.6	13.5	12.5	11.8	11.7	11.7	11.8	11.9	12.1	12.4
-90	14.9	17.0	19.1	21.1	23.2	25.3	27.4	27.5	27.6	27.8	27.9	28.0	28.1	28.2	28.3	28.3	28.4	28.5	28.5
-80	14.9	19.7	28.6	41.3	58.0	80.0	107	110	109	107	101	93.5	84.1	88.8	93.9	97.9	101	102	103
-70	14.9	22.2	36.3	68.6	115	163	216	245	264	282	301	316	329	390	473	548	613	666	707
-60	14.9	23.7	52.7	114	178	262	365	480	562	656	737	829	925	1045	1188	1302	1387	1453	1503
-50	14.9	24.3	78.1	152	261	410	578	749	893	1042	1185	1303	1398	1469	1482	1479	1476	1471	1473
-40	14.9	23.8	99.4	193	362	564	770	966	1135	1207	1249	1286	1306	1320	1329	1305	1287	1278	1274
-30	14.9	27.1	115	249	457	694	918	1085	1133	1144	1152	1159	1176	1200	1225	1238	1231	1219	1208
-20	14.9	30.6	122	290	527	783	993	1071	1082	1090	1091	1107	1153	1188	1212	1230	1240	1229	1216
-10	14.9	31.7	123	314	569	833	991	1030	1032	1050	1070	1116	1160	1197	1228	1260	1283	1292	1283
0	14.9	30.6	119	317	576	841	960	991	987	1015	1049	1101	1153	1194	1230	1269	1296	1331	1342
10	14.9	30.5	121	312	559	819	964	996	980	1008	1025	1076	1124	1166	1216	1257	1296	1320	1334
20	14.9	28.2	116	288	510	757	944	1002	997	983	1005	1015	1065	1117	1163	1200	1233	1251	1256
30	14.9	23.7	104	246	437	656	867	992	1022	996	979	1022	1037	1060	1089	1130	1148	1159	1163
40	14.9	19.4	85.0	185	351	525	712	887	1002	1058	1081	1074	1077	1094	1122	1142	1152	1163	1180
50	14.9	18.8	64.9	134	253	387	523	667	832	996	1111	1183	1240	1260	1272	1276	1282	1299	1324
60	14.9	17.8	40.4	85.8	154	247	348	439	544	668	807	959	1089	1206	1296	1363	1411	1453	1495
70	14.9	16.7	23.1	48.4	79.7	110	177	233	279	329	381	434	495	602	722	831	930	1016	1091
80	14.9	16.1	17.0	20.9	30.3	46.0	64.7	79.0	91.0	103	116	132	146	169	195	223	250	276	298
90	14.9	15.2	15.5	15.9	16.2	16.5	16.9	18.4	19.8	21.3	22.8	24.2	25.7	27.2	28.6	30.1	31.6	33.0	34.5
100	14.9	14.2	13.7	13.3	12.9	12.6	12.4	12.6	12.8	12.8	12.9	13.0	13.1	13.5	13.9	14.3	14.8	15.4	16.0
110	14.9	13.3	12.0	10.9	9.80	8.92	8.03	7.30	6.82	6.52	6.30	6.05	5.85	5.70	5.62	5.59	5.64	5.74	5.92
120	14.9	12.4	10.5	8.61	7.05	5.67	4.51	3.75	3.42	3.23	3.06	2.95	2.89	2.83	2.76	2.70	2.68	2.70	2.77
130	14.9	11.7	8.98	6.74	4.96	3.62	2.80	2.33	1.96	1.83	1.77	1.68	1.64	1.60	1.56	1.53	1.52	1.53	1.56
140	14.9	11.1	7.78	5.35	3.59	2.53	1.97	1.54	1.34	1.27	1.25	1.24	1.24	1.28	1.34	1.38	1.42	1.46	1.49
150	14.9	10.5	6.82	4.35	2.76	1.96	1.48	1.22	1.10	1.09	1.12	1.22	1.32	1.42	1.53	1.64	1.70	1.77	1.83
160	14.9	10.1	6.12	3.69	2.25	1.61	1.23	1.02	1.01	1.09	1.20	1.32	1.41	1.48	1.56	1.62	1.69	1.72	1.76
170	14.9	9.81	5.65	3.31	1.96	1.42	1.08	0.92	0.99	1.14	1.27	1.37	1.43	1.46	1.50	1.54	1.60	1.65	1.68
180	14.9	9.66	5.39	3.11	1.80	1.32	0.98	0.85	0.98	1.15	1.28	1.37	1.42	1.46	1.51	1.55	1.61	1.68	1.69

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Test Speed: HIGH
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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(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	1.81	1.87	1.89	1.88	1.82	1.76	1.77	1.71	1.72	1.81	2.12	2.56	3.33	4.94	7.73	11.9	16.2	70.8	
-170	1.80	1.85	1.88	1.85	1.80	1.75	1.72	1.70	1.71	1.85	2.17	2.62	3.44	5.08	7.91	12.0	16.3	70.8	
-160	1.82	1.82	1.81	1.79	1.75	1.69	1.70	1.67	1.75	1.98	2.33	2.82	3.73	5.51	8.44	12.5	16.3	70.8	
-150	1.77	1.76	1.74	1.71	1.68	1.69	1.67	1.76	1.95	2.23	2.59	3.27	4.36	6.30	9.32	13.2	16.4	70.8	
-140	1.73	1.72	1.71	1.70	1.72	1.82	1.95	2.15	2.37	2.62	3.22	4.03	5.43	7.58	10.6	14.2	16.6	70.8	
-130	1.95	2.00	2.08	2.21	2.38	2.52	2.67	2.86	3.20	3.64	4.34	5.50	7.21	9.47	12.3	15.4	17.0	70.8	
-120	3.09	3.17	3.27	3.43	3.64	3.85	4.11	4.41	4.86	5.58	6.65	8.02	9.85	12.0	14.4	16.7	25.5	70.8	
-110	5.31	5.42	5.59	5.82	6.13	6.52	7.05	7.73	8.51	9.40	10.6	11.9	13.5	15.3	16.9	17.5	37.9	70.8	
-100	12.2	12.1	12.0	12.1	12.2	12.5	13.2	14.0	14.8	15.9	16.9	17.9	18.4	18.4	22.3	34.2	50.9	70.8	
-90	28.1	27.7	27.3	26.9	26.5	26.1	28.8	31.6	34.3	37.1	39.8	42.6	47.3	52.0	56.7	61.4	66.1	70.8	
-80	108	112	115	116	115	114	128	139	146	148	146	140	130	118	107	95.6	84.3	70.8	
-70	687	653	609	555	493	443	419	395	373	358	343	312	265	220	175	136	102	70.8	
-60	1470	1426	1372	1302	1209	1081	964	852	753	664	592	511	429	346	261	183	121	70.8	
-50	1449	1431	1418	1400	1378	1330	1263	1187	1088	966	848	725	602	479	353	236	140	70.8	
-40	1257	1250	1246	1244	1227	1218	1207	1173	1117	1073	1019	907	766	607	443	288	159	70.8	
-30	1199	1191	1180	1171	1151	1133	1115	1100	1087	1069	1050	997	890	721	527	334	175	70.8	
-20	1216	1211	1204	1183	1160	1125	1095	1071	1063	1047	1038	1014	953	806	593	371	188	70.8	
-10	1286	1284	1270	1243	1207	1166	1122	1082	1046	1022	1013	1012	975	864	637	396	197	70.8	
0	1348	1341	1316	1282	1241	1191	1136	1094	1035	997	988	999	978	894	660	408	202	70.8	
10	1339	1295	1251	1229	1206	1172	1140	1112	1078	1044	1026	988	927	826	613	386	195	70.8	
20	1262	1258	1235	1209	1179	1161	1152	1140	1108	1095	1045	929	853	733	549	353	184	70.8	
30	1181	1198	1218	1208	1187	1184	1193	1169	1166	1101	982	831	739	616	468	311	170	70.8	
40	1191	1203	1218	1240	1258	1260	1254	1230	1138	952	771	673	595	486	376	262	152	70.8	
50	1332	1344	1358	1357	1351	1323	1272	1150	940	701	522	481	414	361	290	211	133	70.8	
60	1485	1477	1467	1451	1391	1229	1047	839	634	465	310	280	270	246	211	162	114	70.8	
70	1046	990	921	838	737	602	472	372	283	218	170	149	160	155	140	118	94.8	70.8	
80	281	259	236	212	187	168	150	133	115	97.4	80.4	67.2	77.0	81.5	82.0	80.6	78.0	70.8	
90	33.8	33.2	32.6	31.9	31.3	30.6	28.5	26.3	24.1	21.9	19.7	17.5	26.4	35.3	44.2	53.0	61.9	70.8	
100	15.8	15.7	15.7	15.8	15.9	16.1	15.5	14.9	14.3	13.6	12.9	12.2	13.5	14.7	19.9	32.5	49.0	70.8	
110	5.82	5.81	5.89	6.08	6.39	6.71	6.85	7.01	7.15	7.27	7.24	7.72	9.73	12.1	14.2	15.7	37.0	70.8	
120	2.72	2.73	2.78	2.86	3.00	3.08	3.17	3.32	3.45	3.61	3.85	5.12	7.07	9.39	12.3	15.0	24.8	70.8	
130	1.52	1.51	1.52	1.56	1.63	1.70	1.82	1.95	2.09	2.30	2.68	3.56	5.15	7.58	10.5	14.1	16.3	70.8	
140	1.43	1.35	1.27	1.19	1.18	1.19	1.23	1.30	1.41	1.64	2.16	2.94	4.10	6.17	9.29	13.1	16.0	70.8	
150	1.78	1.73	1.63	1.52	1.39	1.27	1.15	1.10	1.23	1.51	1.93	2.55	3.58	5.34	8.41	12.4	15.9	70.8	
160	1.75	1.75	1.72	1.67	1.61	1.51	1.41	1.31	1.34	1.54	1.89	2.39	3.29	4.93	7.85	11.9	16.0	70.8	
170	1.69	1.66	1.63	1.65	1.67	1.66	1.64	1.55	1.53	1.64	1.96	2.43	3.22	4.81	7.62	11.8	16.1	70.8	
180	1.81	1.87	1.89	1.88	1.82	1.76	1.77	1.71	1.72	1.81	2.12	2.56	3.33	4.94	7.73	11.9	16.2	70.8	

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