

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 %

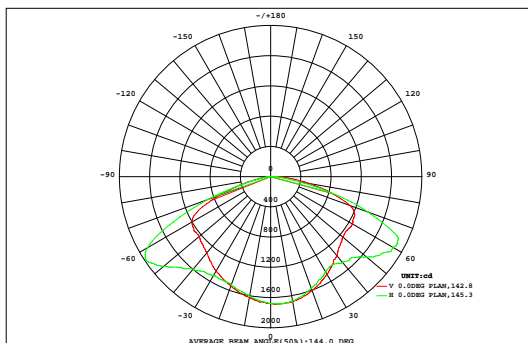
Luminaire Efficiency(Light Output Ratio)	98.0 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.0DEG
Operators:YangWenPeng
Test Date:2023-11-22

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-W50-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:136.76lm/W	
MODEL	TP421-W50-5000K	Imax(cd)	1986
NOMINAL POWER(W)	50	AVAILABILITY(%)	96.0
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	6566
NOMINAL FLUX(lm)	6838.6	LOR(%)	98.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	6839
TEST VOLTAGE(V)	219.9	θ @50%(H,V)	143,145DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.05	0.18	0.40	0.85	1.44	2.10	2.85	3.70	4.46	4.58	4.04	3.38	2.58	1.71	0.98	0.72	0.59	0.23	34.8	8.82
90	0.06	0.35	1.28	3.06	5.47	8.17	12.2	18.2	23.7	24.2	19.6	13.9	8.71	5.09	2.75	1.84	1.09	0.30	150	138
80	0.07	0.71	3.00	7.40	13.3	21.6	31.9	42.5	50.3	51.6	46.4	37.6	24.4	12.5	5.42	3.36	1.73	0.38	354	352
70	0.09	1.21	5.22	12.2	22.9	34.7	43.9	49.5	53.0	53.9	52.0	48.1	37.1	21.6	9.69	5.50	2.50	0.48	453	452
60	0.13	1.80	7.51	17.2	28.0	35.7	40.3	43.5	45.9	47.2	47.2	45.3	39.4	28.0	14.7	8.19	3.37	0.58	454	453
50	0.17	2.39	9.75	20.5	27.6	32.3	37.2	40.9	43.3	44.5	44.4	41.9	37.9	31.1	19.6	10.8	4.28	0.67	449	449
40	0.19	2.89	11.6	21.6	26.6	31.6	37.5	42.9	45.7	46.3	44.9	40.9	36.5	30.6	22.2	12.9	5.15	0.76	461	460
30	0.21	3.25	12.7	21.7	26.8	32.7	39.5	45.3	48.9	49.3	45.9	41.1	35.7	29.5	22.6	14.3	5.92	0.83	476	476
20	0.22	3.43	13.2	21.5	27.3	34.0	40.9	46.6	50.4	50.7	47.1	42.2	35.6	28.5	22.0	15.2	6.51	0.89	486	486
10	0.22	3.45	13.3	21.9	27.9	34.7	41.2	46.6	50.0	50.1	47.6	42.3	35.3	28.1	21.9	15.6	6.64	0.89	488	487
0	0.22	3.31	13.1	22.8	28.8	34.8	41.1	45.7	47.7	47.4	45.4	40.8	34.6	28.4	22.4	15.4	6.29	0.86	479	479
-10	0.21	2.97	12.1	23.4	30.0	35.2	41.1	45.2	46.2	45.6	43.5	39.7	34.3	28.9	22.8	14.8	5.73	0.79	473	472
-20	0.19	2.47	10.4	22.6	31.7	38.1	43.1	46.4	47.1	46.4	44.2	40.8	36.0	29.7	22.6	13.4	4.98	0.71	481	480
-30	0.15	1.92	8.08	18.9	31.2	41.1	48.4	51.2	51.9	51.0	48.6	45.0	38.8	30.2	20.6	11.2	4.10	0.62	503	502
-40	0.12	1.41	5.54	13.5	22.9	34.2	45.7	53.8	57.8	57.4	53.2	46.6	36.5	25.4	15.9	8.42	3.15	0.52	482	481
-50	0.10	0.97	3.46	7.63	12.3	17.7	24.7	33.8	40.7	41.7	36.8	29.0	21.4	15.1	10.1	5.64	2.22	0.42	304	302
-60	0.08	0.56	1.98	3.81	4.99	5.81	7.09	9.76	12.0	12.5	11.1	8.96	7.69	6.76	5.21	3.14	1.40	0.33	103	87.0
-70	0.07	0.32	0.85	1.42	1.57	1.46	1.41	1.59	1.68	1.79	1.91	1.87	1.99	2.09	1.85	1.36	0.80	0.25	24.3	0.00
-80	0.07	0.32	0.85	1.42	1.57	1.46	1.41	1.59	1.68	1.79	1.91	1.87	1.99	2.09	1.85	1.36	0.80	0.25	24.3	0.00
-90	0.07	0.32	0.85	1.42	1.57	1.46	1.41	1.59	1.68	1.79	1.91	1.87	1.99	2.09	1.85	1.36	0.80	0.25	24.3	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.56	33.6	133	262	371	476	580	667	721	726	684	609	505	383	263	162	66.5	10.5	6656	---
Φ a	0.00	26.5	128	257	365	470	575	662	716	721	679	604	499	378	258	157	62.5	7.28	---	6566

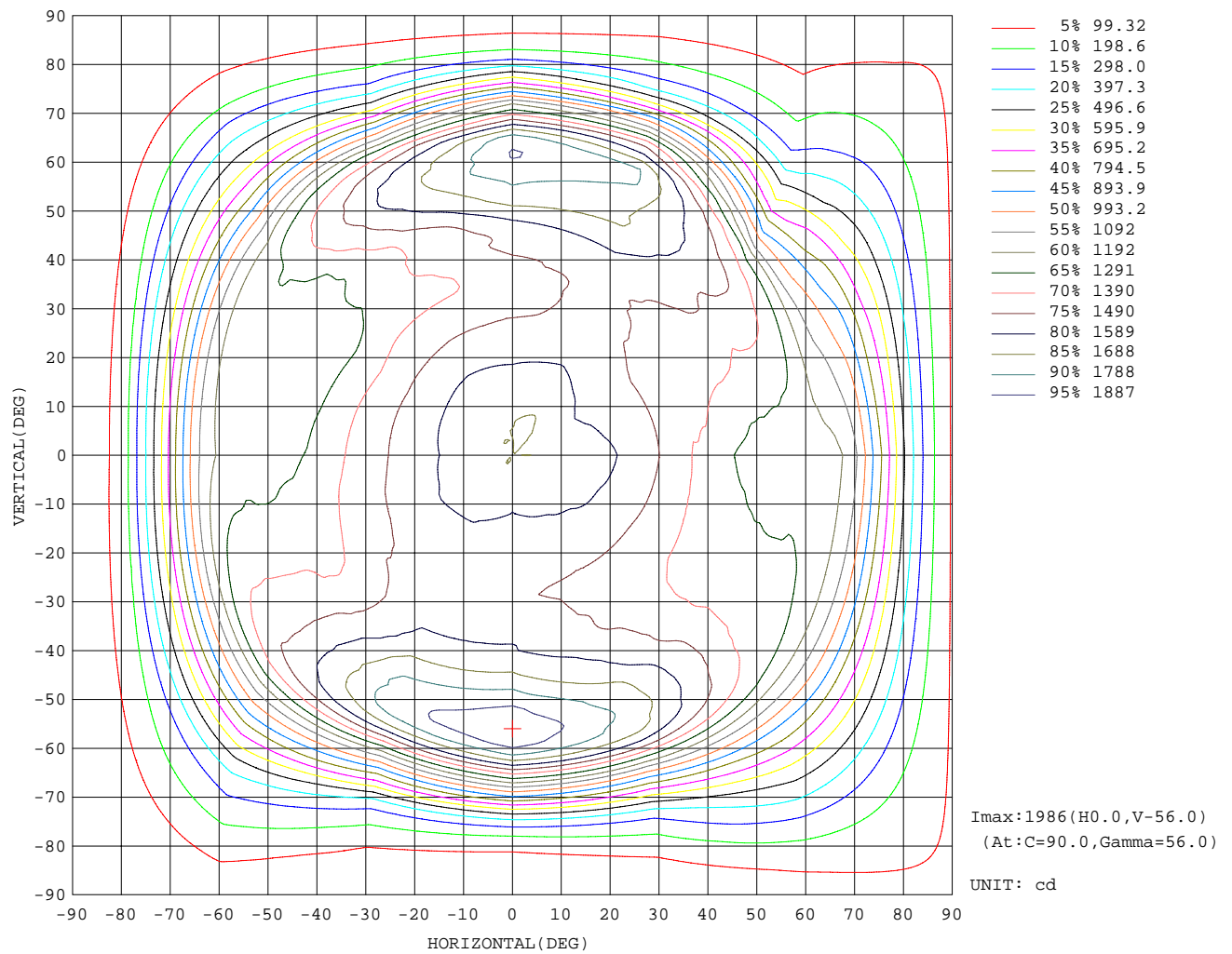
one-half-peak spread: U:14.4,D:11.0 , L:13.2,R:15.8

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:

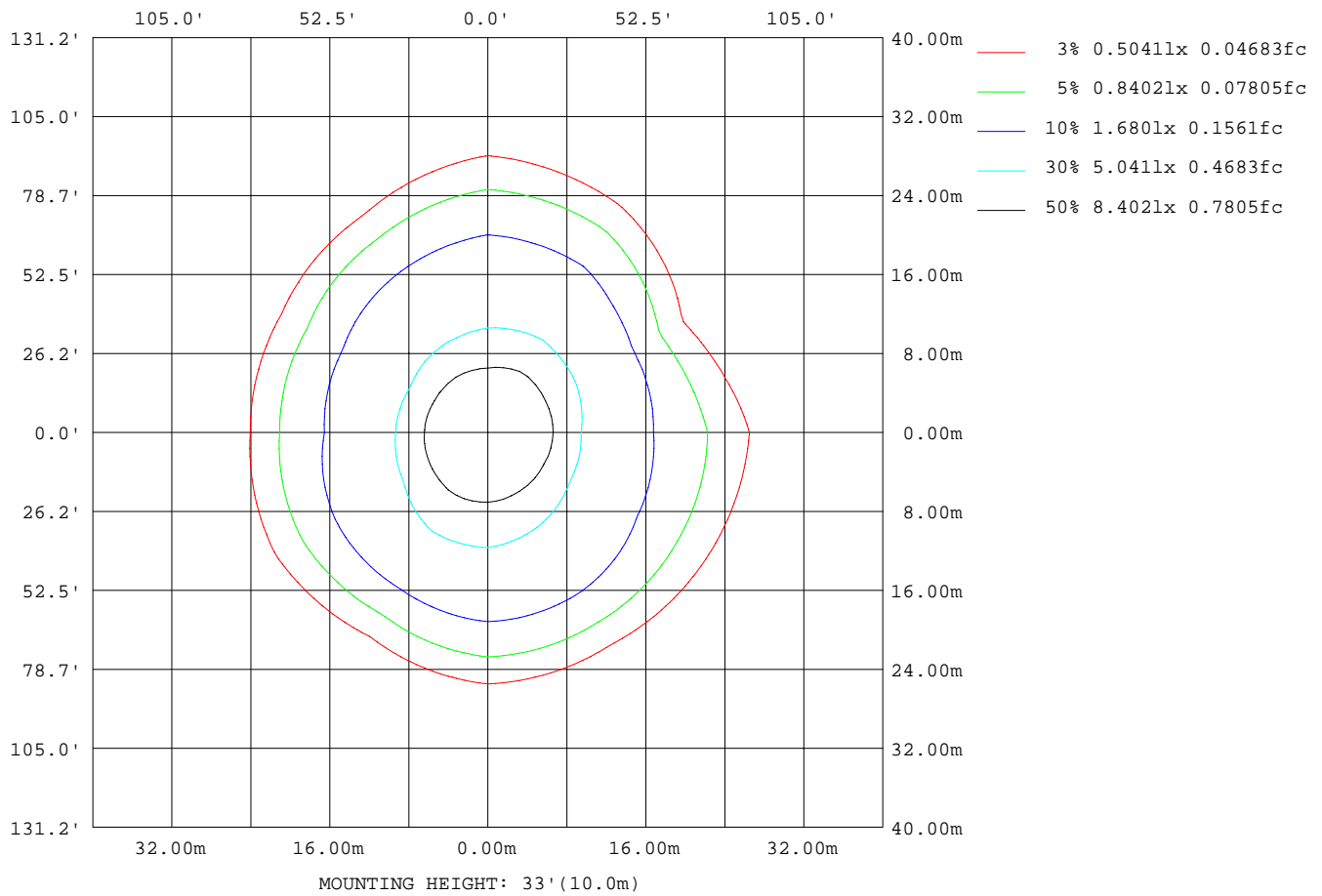
ISOCANDELA DIAGRAM



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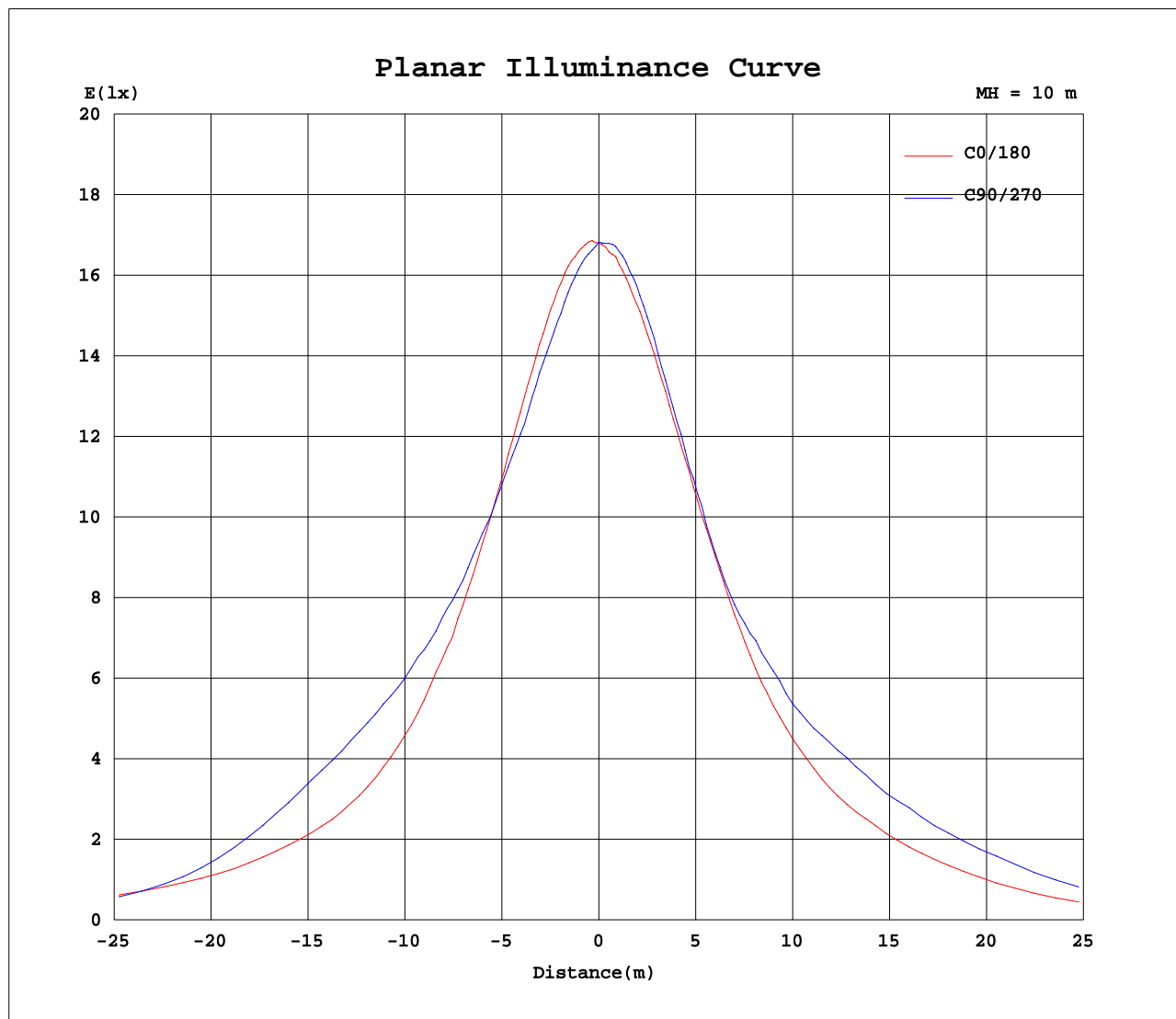
ISOLUX DIAGRAM



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:

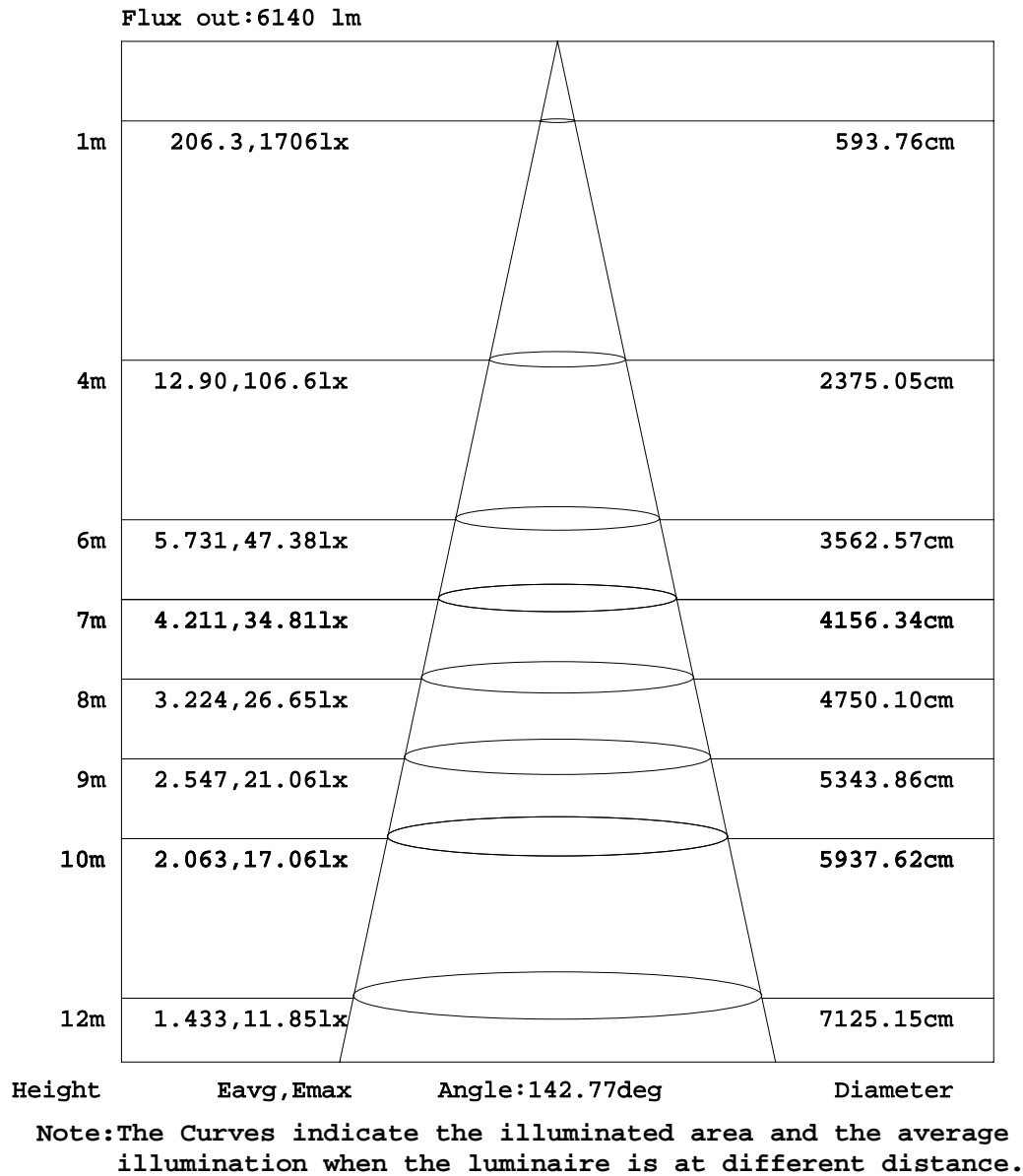
Planar Illuminance Curve



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	18.6	12.1	6.75	3.89	2.25	1.65	1.22	1.06	1.22	1.44	1.61	1.71	1.77	1.83	1.89	1.95	2.02	2.10	2.12
-170	18.6	12.6	7.35	4.57	2.89	2.18	1.79	1.59	1.62	1.73	1.85	1.99	2.11	2.24	2.37	2.39	2.29	2.23	2.19
-160	18.6	13.2	8.21	5.46	3.73	2.83	2.44	2.21	2.12	2.10	2.10	2.21	2.34	2.36	2.36	2.32	2.29	2.28	2.26
-150	18.6	14.0	9.41	6.66	4.95	3.84	3.24	2.99	2.87	2.73	2.57	2.32	2.28	2.28	2.28	2.27	2.26	2.24	2.21
-140	18.6	15.0	11.0	8.19	6.62	5.29	4.44	4.01	3.85	3.56	3.10	2.72	2.46	2.31	2.23	2.21	2.20	2.20	2.19
-130	18.6	16.2	13.1	10.3	8.67	7.65	6.57	5.86	4.88	4.40	3.96	3.60	3.26	2.98	2.76	2.61	2.52	2.46	2.42
-120	18.6	17.3	15.8	13.4	11.5	10.5	9.95	9.01	7.39	6.29	5.51	4.93	4.62	4.36	4.17	4.02	3.92	3.85	3.83
-110	18.6	18.3	18.7	17.9	16.6	15.4	14.4	13.1	11.7	10.4	9.27	8.11	7.20	6.82	6.67	6.57	6.52	6.52	6.57
-100	18.6	19.4	20.7	22.4	23.8	24.6	24.7	22.2	20.0	18.3	16.9	15.7	14.7	14.6	14.6	14.7	14.9	15.2	15.5
-90	18.6	21.2	23.9	26.5	29.1	31.7	34.3	34.5	34.6	34.8	34.9	35.0	35.2	35.3	35.4	35.5	35.5	35.6	35.7
-80	18.6	24.6	35.8	51.8	72.6	100	134	138	137	134	127	117	105	111	118	123	126	128	128
-70	18.6	27.8	45.4	85.9	143	204	270	307	331	354	377	395	412	488	593	686	767	834	885
-60	18.6	29.7	66.0	142	222	327	457	601	704	821	923	1038	1158	1308	1487	1630	1737	1819	1882
-50	18.6	30.4	97.8	191	327	513	724	938	1117	1304	1484	1631	1750	1839	1855	1851	1848	1841	1845
-40	18.6	29.8	124	241	454	706	963	1209	1421	1511	1563	1610	1636	1653	1663	1634	1611	1600	1595
-30	18.6	34.0	144	312	572	869	1149	1358	1419	1433	1442	1450	1472	1503	1534	1550	1541	1526	1512
-20	18.6	38.3	153	363	659	980	1243	1341	1355	1365	1366	1385	1443	1487	1517	1539	1552	1538	1522
-10	18.6	39.7	154	393	712	1043	1240	1289	1292	1314	1340	1398	1452	1498	1537	1578	1606	1618	1606
0	18.6	38.3	149	396	721	1052	1202	1240	1235	1271	1313	1378	1444	1494	1540	1588	1622	1666	1680
10	18.6	38.2	151	390	700	1026	1207	1246	1227	1262	1283	1347	1407	1460	1523	1574	1623	1652	1670
20	18.6	35.3	145	360	639	948	1181	1254	1248	1231	1258	1271	1333	1398	1456	1502	1543	1567	1572
30	18.6	29.6	130	307	547	821	1085	1242	1280	1247	1226	1280	1298	1328	1363	1415	1438	1451	1456
40	18.6	24.2	106	232	439	657	891	1111	1255	1324	1353	1344	1348	1369	1405	1429	1442	1455	1477
50	18.6	23.6	81.2	168	316	484	655	835	1041	1247	1391	1481	1552	1577	1592	1598	1605	1626	1657
60	18.6	22.2	50.6	107	193	310	436	550	680	836	1010	1201	1363	1509	1622	1707	1766	1819	1872
70	18.6	20.9	28.9	60.6	99.8	137	222	292	350	412	476	544	620	754	904	1041	1164	1272	1365
80	18.6	20.2	21.3	26.1	37.9	57.6	81.0	98.9	114	129	146	165	183	211	244	279	313	345	374
90	18.6	19.0	19.5	19.9	20.3	20.7	21.1	23.0	24.8	26.7	28.5	30.3	32.2	34.0	35.8	37.7	39.5	41.3	43.2
100	18.6	17.8	17.1	16.6	16.2	15.8	15.5	15.8	16.0	16.1	16.1	16.2	16.4	16.8	17.4	17.9	18.5	19.2	20.1
110	18.6	16.6	15.0	13.6	12.3	11.2	10.1	9.14	8.53	8.17	7.89	7.57	7.32	7.14	7.03	7.00	7.05	7.18	7.42
120	18.6	15.6	13.1	10.8	8.83	7.09	5.65	4.69	4.28	4.04	3.83	3.69	3.62	3.55	3.45	3.38	3.36	3.38	3.46
130	18.6	14.6	11.2	8.43	6.21	4.53	3.50	2.92	2.45	2.30	2.21	2.11	2.06	2.01	1.95	1.91	1.90	1.92	1.95
140	18.6	13.8	9.74	6.69	4.49	3.16	2.46	1.93	1.68	1.59	1.56	1.55	1.55	1.61	1.68	1.73	1.77	1.83	1.87
150	18.6	13.2	8.54	5.45	3.46	2.46	1.85	1.53	1.38	1.37	1.41	1.52	1.65	1.77	1.92	2.05	2.13	2.21	2.28
160	18.6	12.6	7.67	4.62	2.82	2.02	1.54	1.28	1.26	1.36	1.51	1.66	1.76	1.85	1.95	2.03	2.11	2.16	2.21
170	18.6	12.3	7.08	4.14	2.46	1.78	1.35	1.15	1.23	1.42	1.59	1.72	1.78	1.83	1.87	1.93	2.00	2.07	2.10
180	18.6	12.1	6.75	3.89	2.25	1.65	1.22	1.06	1.22	1.44	1.61	1.71	1.77	1.83	1.89	1.95	2.02	2.10	2.11

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
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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	2.27	2.34	2.36	2.35	2.28	2.21	2.22	2.15	2.15	2.26	2.65	3.21	4.16	6.18	9.68	14.9	20.3	88.7	
-170	2.26	2.32	2.35	2.32	2.26	2.19	2.16	2.13	2.14	2.31	2.72	3.29	4.30	6.36	9.90	15.1	20.4	88.7	
-160	2.28	2.28	2.26	2.24	2.19	2.12	2.12	2.09	2.20	2.48	2.91	3.53	4.67	6.89	10.6	15.6	20.4	88.7	
-150	2.21	2.20	2.18	2.14	2.10	2.12	2.09	2.20	2.44	2.80	3.24	4.09	5.46	7.89	11.7	16.5	20.5	88.7	
-140	2.17	2.16	2.14	2.12	2.15	2.27	2.44	2.69	2.96	3.28	4.03	5.05	6.80	9.49	13.3	17.7	20.8	88.7	
-130	2.45	2.50	2.60	2.76	2.98	3.15	3.35	3.58	4.01	4.55	5.43	6.89	9.03	11.9	15.4	19.3	21.3	88.7	
-120	3.87	3.96	4.10	4.29	4.56	4.82	5.14	5.52	6.08	6.98	8.32	10.0	12.3	15.0	18.1	20.9	31.9	88.7	
-110	6.64	6.78	6.99	7.29	7.67	8.16	8.82	9.68	10.7	11.8	13.2	14.9	16.9	19.1	21.2	21.8	47.4	88.7	
-100	15.3	15.1	15.1	15.1	15.2	15.6	16.5	17.5	18.5	19.8	21.2	22.4	23.0	23.1	27.9	42.9	63.7	88.7	
-90	35.2	34.7	34.2	33.7	33.2	32.7	36.1	39.5	43.0	46.4	49.9	53.3	59.2	65.1	71.0	76.9	82.8	88.7	
-80	135	141	144	145	144	143	160	174	183	186	183	176	162	148	134	120	105	88.7	
-70	860	818	762	694	617	554	524	494	467	449	429	391	332	275	219	170	128	88.7	
-60	1840	1785	1718	1630	1513	1353	1207	1067	943	831	741	640	537	434	327	229	151	88.7	
-50	1814	1792	1775	1752	1725	1664	1581	1486	1362	1209	1062	908	754	599	442	295	175	88.7	
-40	1574	1565	1560	1557	1535	1525	1511	1469	1399	1343	1275	1136	958	760	554	360	198	88.7	
-30	1500	1491	1477	1466	1440	1419	1396	1377	1361	1338	1315	1248	1114	903	660	419	219	88.7	
-20	1522	1516	1507	1480	1452	1408	1371	1341	1330	1311	1300	1269	1193	1009	743	464	236	88.7	
-10	1610	1607	1590	1555	1511	1460	1405	1355	1309	1279	1268	1267	1221	1082	797	495	247	88.7	
0	1687	1679	1648	1605	1553	1491	1423	1370	1296	1249	1236	1251	1225	1119	826	510	252	88.7	
10	1677	1622	1566	1538	1510	1467	1427	1392	1349	1308	1285	1237	1160	1035	767	483	244	88.7	
20	1579	1575	1546	1514	1475	1453	1442	1427	1387	1371	1308	1162	1067	918	687	441	231	88.7	
30	1478	1500	1525	1512	1486	1482	1494	1464	1459	1379	1229	1041	925	771	586	389	212	88.7	
40	1490	1506	1525	1552	1574	1577	1570	1539	1424	1191	966	842	745	608	470	328	190	88.7	
50	1668	1683	1700	1699	1692	1656	1592	1439	1177	877	653	602	518	452	363	264	167	88.7	
60	1859	1849	1837	1816	1741	1539	1310	1051	794	582	388	350	338	308	264	202	142	88.7	
70	1310	1239	1152	1049	922	754	591	465	354	273	213	187	200	194	175	148	119	88.7	
80	351	325	295	265	234	210	188	166	144	122	101	84.2	96.4	102	103	101	97.7	88.7	
90	42.4	41.6	40.8	40.0	39.2	38.4	35.6	32.9	30.1	27.4	24.6	21.9	33.0	44.1	55.3	66.4	77.5	88.7	
100	19.8	19.7	19.7	19.7	19.9	20.2	19.4	18.6	17.8	17.0	16.1	15.3	16.9	18.4	24.9	40.6	61.4	88.7	
110	7.29	7.27	7.37	7.61	8.00	8.40	8.58	8.78	8.96	9.10	9.06	9.66	12.2	15.1	17.8	19.6	46.4	88.7	
120	3.40	3.41	3.48	3.59	3.75	3.85	3.97	4.15	4.31	4.52	4.81	6.40	8.85	11.8	15.4	18.8	31.0	88.7	
130	1.91	1.89	1.90	1.95	2.04	2.13	2.27	2.44	2.62	2.88	3.36	4.46	6.45	9.49	13.2	17.6	20.5	88.7	
140	1.79	1.68	1.58	1.49	1.47	1.49	1.54	1.63	1.77	2.06	2.71	3.68	5.13	7.73	11.6	16.4	20.0	88.7	
150	2.23	2.16	2.04	1.90	1.74	1.59	1.44	1.37	1.54	1.90	2.42	3.19	4.48	6.68	10.5	15.5	19.9	88.7	
160	2.19	2.19	2.15	2.09	2.01	1.89	1.77	1.64	1.68	1.92	2.36	2.99	4.11	6.17	9.83	15.0	20.0	88.7	
170	2.11	2.08	2.05	2.07	2.10	2.08	2.05	1.94	1.91	2.05	2.45	3.04	4.03	6.03	9.54	14.8	20.1	88.7	
180	2.27	2.34	2.36	2.35	2.28	2.21	2.22	2.15	2.15	2.26	2.65	3.21	4.16	6.18	9.68	14.9	20.3	88.7	

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: